

# 2019 Pacific Northwest Loads and Resources Study

## Technical Appendix, Volume 1: Energy Analysis

October 2020





**2019 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY**  
***The White Book***

**TECHNICAL APPENDIX**

**Volume 1**

**Energy Analysis**

**BONNEVILLE POWER ADMINISTRATION**  
**October 2020**

***Cover Picture:***

John Day Dam is a concrete gravity run-of-the-river dam spanning the Columbia River between Sherman County in Oregon and Klickitat County in Washington, owned and operated by the US Army Corps of Engineers. The dam was completed in 1971 and creates Lake Umatilla, it includes 16 hydroelectric turbines with a nameplate capacity of 2,180 MW.

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# ACKNOWLEDGMENTS

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Preparation of the annual Pacific Northwest loads and resources study is a complex, multidisciplinary effort. BPA wishes to acknowledge the team—BPA staff and others—whose diligence and dedication result in a reliable, high quality document.

## **Bonneville Power Administration**

### **Generation Asset Management:**

Long Term Power Planning Group  
Regional Coordination Group  
Operational Planning Group

### **Customer Support Services:**

Load Forecasting and Analysis Group

### **Bulk Marketing and Transmission Services:**

Long Term Sales and Purchasing Group

### **NW Requirements Marketing:**

### **Office of General Counsel**

## **Pacific Northwest Utilities Conference Committee**

## **Northwest Power & Conservation Council**

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# **Section 1: Annual Energy Operating Year 2021 to 2030**

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***Exhibit 1***  
***Federal Report Surplus Deficit***

***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Loads and Resources - Federal System**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 4/6/2020**

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Firm Obligations</b>										
<b>1 Load Following</b>	3458	3472	3486	3496	3512	3529	3547	3560	3577	3593
2 Preference Customers	3146	3151	3164	3175	3190	3207	3224	3238	3253	3269
3 Federal Agencies	134	143	143	143	144	144	145	145	145	145
4 USBR	178	178	178	178	178	178	178	178	178	178
5 Federal Diversity	0	0	0	0	0	0	0	0	0	0
<b>6 Tier 1 Block</b>	572	571	564	552	550	549	549	548	548	548
7 Tier 1 Block	572	571	564	552	550	549	549	548	548	548
<b>8 Slice</b>	2818	2920	2928	2929	2922	2926	2915	2919	2907	2916
9 Slice Block	1314	1404	1442	1417	1437	1414	1434	1412	1427	1409
10 Slice Output from T1 System	1504	1516	1486	1513	1485	1512	1482	1508	1480	1508
<b>11 Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
12 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>13 Contract Deliveries</b>	818	740	676	675	676	560	476	476	476	476
14 Exports	629	529	465	464	465	465	465	465	465	465
15 Intra-Regional Transfers (Out)	188	211	211	211	211	94.6	10.7	10.7	10.7	10.7
16 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0
<b>17 Total Firm Obligations</b>	<b>7679</b>	<b>7714</b>	<b>7666</b>	<b>7664</b>	<b>7672</b>	<b>7577</b>	<b>7499</b>	<b>7515</b>	<b>7520</b>	<b>7545</b>
<b>Net Resources</b>										
<b>18 Hydro</b>	6410	6344	6344	6343	6339	6344	6339	6343	6339	6344
19 Regulated Hydro - Net	6058	5992	5992	5992	5987	5992	5987	5992	5987	5992
20 Independent Hydro - Net	349	349	349	349	349	349	349	349	349	349
21 Small Hydro - Net	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
<b>22 Non-Hydro Renewable</b>	51.0	48.5	34.8	33.0	33.0	33.0	19.8	1.90	0	0
23 Wind - Net	51.0	48.5	34.8	33.0	33.0	33.0	19.8	1.90	0	0
24 Solar - Net	0	0	0	0	0	0	0	0	0	0
25 Other - Net	0	0	0	0	0	0	0	0	0	0
<b>26 Thermal</b>	994	1116	994	1116	994	1116	994	1116	994	1116
27 Nuclear - Net	994	1116	994	1116	994	1116	994	1116	994	1116
28 Coal - Net	0	0	0	0	0	0	0	0	0	0
29 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0
30 Petroleum - Net	0	0	0	0	0	0	0	0	0	0
31 Biofuel - Net	0	0	0	0	0	0	0	0	0	0
32 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0

**Loads and Resources - Federal System**  
**Operating Year: 2021 to 2030 Water Year: 1937**

**2019 White Book Report Date: 4/6/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>33 Contract Purchases</b>	261	165	165	165	164	165	164	165	164	165
34 Imports	84.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35 Intra-Regional Transfers (In)	12.4	0	0	0	0	0	0	0	0	0
36 Non-Federal CER	135	135	135	135	135	135	135	135	135	135
37 Slice Transmission Loss Return	28.6	28.8	28.3	28.8	28.2	28.8	28.2	28.7	28.1	28.7
38 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0
<b>39 Reserves &amp; Losses</b>	-231	-230	-226	-229	-225	-229	-225	-228	-224	-228
40 Operating Reserves	0	0	0	0	0	0	0	0	0	0
41 Balancing Reserves	0	0	0	0	0	0	0	0	0	0
42 Transmission Losses	-231	-230	-226	-229	-225	-229	-225	-228	-224	-228
<b>43 Total Net Resources</b>	<b>7484</b>	<b>7444</b>	<b>7312</b>	<b>7428</b>	<b>7305</b>	<b>7429</b>	<b>7292</b>	<b>7398</b>	<b>7273</b>	<b>7397</b>
<b>44 Total Surplus/Deficit</b>	<b>-194</b>	<b>-270</b>	<b>-354</b>	<b>-236</b>	<b>-367</b>	<b>-148</b>	<b>-207</b>	<b>-118</b>	<b>-247</b>	<b>-148</b>

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***Exhibit 2***  
***Regional Report Surplus Deficit***

***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2021 to 2030 Water Year: 1937**

**2019 White Book Report Date: 4/6/2020**

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Regional Loads</b>										
<b>1 Retail Loads</b>	22895	23252	23528	23616	23731	23825	23909	23960	24050	24130
2 Federal Agency	144	153	153	153	154	154	155	155	155	155
3 USBR	178	178	178	178	178	178	178	178	178	178
4 Cooperative	2311	2384	2470	2537	2570	2586	2601	2613	2630	2645
5 Municipality	2620	2622	2624	2626	2627	2628	2629	2631	2632	2634
6 Public Utility District	4501	4720	4855	4835	4852	4879	4899	4901	4912	4927
7 Investor-Owned Utility	12737	12790	12843	12884	12946	12995	13043	13079	13138	13187
8 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
9 Direct-Service Industry	401	401	401	401	401	401	401	401	401	401
10 Federal Diversity	0	0	0	0	0	0	0	0	0	0
<b>11 Exports</b>	1288	1142	1049	1018	1018	1018	1018	1018	1016	1014
12 Canada	465	465	465	464	465	465	465	465	465	465
13 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14 Inland Southwest	21.6	0	0	0	0	0	0	0	0	0
15 Pacific Southwest	771	655	583	553	552	552	552	552	550	548
16 Other	29.0	21.0	0	0	0	0	0	0	0	0
<b>17 Total Regional Loads</b>	<b>24183</b>	<b>24394</b>	<b>24577</b>	<b>24634</b>	<b>24749</b>	<b>24843</b>	<b>24928</b>	<b>24978</b>	<b>25066</b>	<b>25144</b>
<b>Regional Resources</b>										
<b>18 Hydro</b>	11667	11564	11566	11556	11547	11559	11547	11556	11547	11559
19 Regulated Hydro - Net	10391	10298	10300	10292	10281	10293	10281	10292	10281	10293
20 Independent Hydro - Net	1035	1024	1024	1023	1024	1024	1024	1023	1024	1024
21 Small Hydro - Net	242	242	242	241	242	242	242	241	242	242
<b>22 Non-Hydro Renewable</b>	2163	2166	2166	2166	2167	2166	2166	2164	2160	2159
23 Wind - Net	1811	1814	1814	1813	1814	1814	1814	1811	1807	1807
24 Solar - Net	175	175	175	175	175	175	175	175	175	175
25 Other - Net	177	176	176	178	177	176	176	178	177	176
<b>26 Thermal</b>	13499	13029	12868	13028	12821	12469	12201	12223	12128	12305
27 Nuclear - Net	994	1116	994	1116	994	1116	994	1116	994	1116
28 Coal - Net	4290	3699	3677	3741	3666	3191	3039	2945	2971	3024
29 Natural Gas - Net	5874	5872	5865	5827	5826	5824	5824	5827	5826	5821
30 Petroleum - Net	0	0	0	0	0	0	0	0	0	0
31 Biofuel - Net	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
32 Cogeneration - Net	2315	2316	2306	2319	2309	2311	2318	2310	2312	2318



**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2021 to 2030 Water Year: 1937**

**2019 White Book Report Date: 4/6/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b><sup>33</sup> Imports</b>	660	580	584	588	591	595	599	603	607	610
<sup>34</sup> Canada	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
<sup>35</sup> East of Continental Divide	0	0	0	0	0	0	0	0	0	0
<sup>36</sup> Inland Southwest	491	494	498	502	506	509	513	517	521	525
<sup>37</sup> Pacific Southwest	131	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
<sup>38</sup> Other	0	0	0	0	0	0	0	0	0	0
<b><sup>39</sup> Reserves &amp; Losses</b>	-831	-812	-807	-812	-806	-796	-787	-788	-785	-791
<sup>40</sup> Operating Reserves	0	0	0	0	0	0	0	0	0	0
<sup>41</sup> Balancing Reserves	0	0	0	0	0	0	0	0	0	0
<sup>42</sup> Transmission Losses	-831	-812	-807	-812	-806	-796	-787	-788	-785	-791
<b><sup>43</sup> Total Regional Resources</b>	<b>27158</b>	<b>26527</b>	<b>26376</b>	<b>26526</b>	<b>26320</b>	<b>25993</b>	<b>25725</b>	<b>25758</b>	<b>25656</b>	<b>25842</b>
<b><sup>44</sup> Total Surplus/Deficit</b>	<b>2974</b>	<b>2132</b>	<b>1800</b>	<b>1892</b>	<b>1571</b>	<b>1150</b>	<b>798</b>	<b>780</b>	<b>590</b>	<b>698</b>

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***Exhibit 3***  
***Regional Total Retail Loads***  
  
***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

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**Regional: Total Retail Loads**

**Operating Year 2021 to 2030**

**2019 White Book** Report Date: **4/6/2020**

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Firm Loads</b>										
1 Federal Agency	144	153	153	153	154	154	155	155	155	155
2 USBR	178	178	178	178	178	178	178	178	178	178
3 Cooperative	2311	2384	2470	2537	2570	2586	2601	2613	2630	2645
4 Municipality	2620	2622	2624	2626	2627	2628	2629	2631	2632	2634
5 Public Utility District	4490	4710	4844	4824	4842	4868	4888	4890	4901	4916
6 Investor-Owned Utility	12737	12790	12843	12884	12946	12995	13043	13079	13138	13187
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	401	401	401	401	401	401	401	401	401	401
<b>9 Total Firm Loads</b>	<b>22884</b>	<b>23241</b>	<b>23517</b>	<b>23606</b>	<b>23721</b>	<b>23814</b>	<b>23899</b>	<b>23950</b>	<b>24040</b>	<b>24120</b>
<b>Non-Firm Loads</b>										
10 Public Utility District	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8	10.8
<b>11 Total Non-Firm Loads</b>	<b>10.7</b>	<b>10.7</b>	<b>10.7</b>	<b>10.7</b>	<b>10.7</b>	<b>10.7</b>	<b>10.7</b>	<b>10.7</b>	<b>10.8</b>	<b>10.8</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>										
12 Federal Agency	144	153	153	153	154	154	155	155	155	155
13 USBR	178	178	178	178	178	178	178	178	178	178
14 Cooperative	2311	2384	2470	2537	2570	2586	2601	2613	2630	2645
15 Municipality	2620	2622	2624	2626	2627	2628	2629	2631	2632	2634
16 Public Utility District	4501	4720	4855	4835	4852	4879	4899	4901	4912	4927
17 Investor-Owned Utility	12737	12790	12843	12884	12946	12995	13043	13079	13138	13187
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	401	401	401	401	401	401	401	401	401	401
<b>20 Total Loads</b>	<b>22895</b>	<b>23252</b>	<b>23528</b>	<b>23616</b>	<b>23731</b>	<b>23825</b>	<b>23909</b>	<b>23960</b>	<b>24050</b>	<b>24130</b>

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***Exhibit 4***  
***Regional Exports***

***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

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**Regional Exports**  
**Operating Year 2021 to 2030**  
**2019 White Book** Report Date: **4/6/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Canada</b>										
<b>Contracts</b>										
1 BPA-P to BCHP Trty CEA	454	454	454	453	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	10.8	10.8	10.8	10.7	10.8	10.8	10.8	10.7	10.8	10.8
<b>3 Total Exports to CAN</b>	<b>465</b>	<b>465</b>	<b>465</b>	<b>464</b>	<b>465</b>	<b>465</b>	<b>465</b>	<b>465</b>	<b>465</b>	<b>465</b>
<b>East Continental Divide</b>										
<b>Contracts</b>										
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Inland Southwest</b>										
<b>Contracts</b>										
6 BPA-P to Other Entities	21.0	0	0	0	0	0	0	0	0	0
<b>7 Total Exports to ISW</b>	<b>21.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Other Non-Northwest</b>										
<b>Contracts</b>										
8 BPA-P to Other Entities	29.0	21.0	0	0	0	0	0	0	0	0
<b>9 Total Exports to NNW</b>	<b>29.0</b>	<b>21.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Pacific Southwest</b>										
<b>Contracts</b>										
10 BPA-P to Other Entities	110	41.9	0	0	0	0	0	0	0	0
11 MCQC to BURB PwrS LTFirm	4.26	4.26	4.26	4.25	4.26	4.26	4.26	4.25	1.97	0
12 PSE to PG&E SNX Del	47.1	47.1	47.1	47.0	47.1	47.1	47.1	47.0	47.1	47.1
<b>Transfer Services</b>										
13 BURB to BURB TS PwrP	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35
14 GLEN to GLEN TS PwrP	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
15 LDWP to LDWP TS PwrP	101	101	101	85.0	83.8	83.8	83.8	83.8	83.8	83.8
16 MID to MID TS PwrP	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
17 Other Entities to Other Entities	88.1	88.1	88.1	88.0	88.1	88.1	88.1	88.0	88.1	88.1
18 PG&E to PG&E TS PwrP	86.6	86.6	58.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4
19 SCE to SCE TS PwrP	199	199	199	199	199	199	199	199	199	199
20 SMUD to SMUD TS PwrP	44.3	0	0	0	0	0	0	0	0	0
21 TID to TID TS PwrP	32.2	32.2	32.2	32.1	32.2	32.2	32.2	32.1	32.2	32.2
22 Intertie Losses	22	19	17	16	16	16	16	16	16	16
<b>23 Total Exports to PSW</b>	<b>771</b>	<b>655</b>	<b>583</b>	<b>553</b>	<b>552</b>	<b>552</b>	<b>552</b>	<b>552</b>	<b>550</b>	<b>548</b>
<b>Total Exports</b>										
24 Federal Entities	629	529	465	464	465	465	465	465	465	465
25 Investor Owned Utilities	363	363	334	321	322	322	322	321	322	322
26 Marketer	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	48.9	47.0
27 Municipality	225	181	181	165	164	164	164	164	164	164
<b>28 Total Exports</b>	<b>1268</b>	<b>1124</b>	<b>1032</b>	<b>1001</b>	<b>1002</b>	<b>1002</b>	<b>1002</b>	<b>1002</b>	<b>1000</b>	<b>998</b>

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***Exhibit 5***  
***Regional Imports***

***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

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**Regional: Imports**  
**Operating Year 2021 to 2030**  
**2019 White Book** Report Date: **4/6/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Canada</b>										
<b>Contracts</b>										
<sup>1</sup> BCHP to SCL PwrS LTFirm	35.4	35.4	35.4	35.5	35.4	35.4	35.4	35.5	35.4	35.4
<sup>2</sup> BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>3</sup> Other Entities to PSE	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35
<b><sup>4</sup> Total Imports From CAN</b>	<b>38.8</b>	<b>38.8</b>	<b>38.8</b>	<b>38.8</b>	<b>38.8</b>	<b>38.8</b>	<b>38.8</b>	<b>38.8</b>	<b>38.8</b>	<b>38.8</b>
<b>Inland Southwest</b>										
<b>Transfer Services</b>										
<sup>5</sup> RMP to RMP TS PwrP	491	494	498	502	506	509	513	517	521	525
<b><sup>6</sup> Total Imports From ISW</b>	<b>491</b>	<b>494</b>	<b>498</b>	<b>502</b>	<b>506</b>	<b>509</b>	<b>513</b>	<b>517</b>	<b>521</b>	<b>525</b>
<b>Pacific Southwest</b>										
<b>Contracts</b>										
<sup>7</sup> Other Entities to Other Entities	83.5	0	0	0	0	0	0	0	0	0
<sup>8</sup> PG&E to PSE SNX Ret	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
<b><sup>9</sup> Total Imports From PSW</b>	<b>131</b>	<b>47.1</b>	<b>47.1</b>	<b>47.1</b>	<b>47.1</b>	<b>47.1</b>	<b>47.1</b>	<b>47.1</b>	<b>47.1</b>	<b>47.1</b>
<b>Total Imports</b>										
<sup>10</sup> Federal Entities	84.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>11</sup> Investor Owned Utilities	540	544	548	551	555	559	562	566	570	574
<sup>12</sup> Municipality	35.4	35.4	35.4	35.5	35.4	35.4	35.4	35.5	35.4	35.4
<b><sup>13</sup> Total Imports</b>	<b>660</b>	<b>580</b>	<b>584</b>	<b>588</b>	<b>591</b>	<b>595</b>	<b>599</b>	<b>603</b>	<b>607</b>	<b>610</b>

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***Exhibit 6***  
***Regional Intra-Regional Transfers***

***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

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**Regional: Intra-Regional Transfers**  
**Operating Year 2021 to 2030**  
**2019 White Book Report Date: 2/5/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Intra-Regional Transfers</b>										
<b>Contracts</b>	<b>311</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>205</b>	<b>121</b>	<b>121</b>	<b>121</b>	<b>121</b>
1 BPA-P to BPA-T Ops IntraAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	60.2	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	58.1	100.0	100.0	100.0	100.0	41.9	0	0	0	0
	58.1	100.0	100.0	100.0	100.0	41.9	0	0	0	0
4 BPA-P to PPL NSP RIn	1.18	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	1.27	1.28	1.28	1.29	1.28	1.28	1.27	1.29	1.28	1.28
6 CIDF to RMP PwrS LTFirm	5.47	5.47	5.47	5.46	5.47	5.47	5.47	5.46	5.47	5.47
7 GCPD to PPL PwrS LTFirm	10.0	9.99	10.0	10.00	10.0	9.99	10.0	10.00	10.0	9.99
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	9.66	9.66	9.66	9.65	9.66	9.66	9.66	9.65	9.66	9.66
10 Other Entities to BPA-P	11.7	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
13 PGE to PPL PwrS LTFirm	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
14 PPL to BPA-P NSP SOut	0.73	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>311</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>205</b>	<b>121</b>	<b>121</b>	<b>121</b>	<b>121</b>
<b>Intra-Regional Contracts Out</b>										
17 Federal Entities	188	211	211	211	211	94.6	10.7	10.7	10.7	10.7
18 Investor Owned Utilities	13.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
19 Marketer	36.7	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
21 Public Utility District	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
<b>22 Total Regional Contracts Out</b>	<b>311</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>205</b>	<b>121</b>	<b>121</b>	<b>121</b>	<b>121</b>
<b>Intra-Regional Contracts In</b>										
23 Federal Entities	31.5	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
24 Investor Owned Utilities	135	218	218	218	218	102	17.7	17.7	17.7	17.7
25 Marketer	74.9	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
27 Public Utility District	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
<b>28 Total Regional Contracts In</b>	<b>311</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>205</b>	<b>121</b>	<b>121</b>	<b>121</b>	<b>121</b>

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***Exhibit 7***  
***BPA Sales to Preference and Legacy Customers***

***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

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**BPA Sales to Preference and Legacy Customers**

**Operating Year: 2021 to 2030 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Pacific Northwest</b>										
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3280</b>	<b>3294</b>	<b>3307</b>	<b>3318</b>	<b>3334</b>	<b>3351</b>	<b>3369</b>	<b>3382</b>	<b>3398</b>	<b>3415</b>
4 Cooperative	1839	1819	1821	1822	1831	1837	1846	1851	1862	1870
5 Municipality	539	537	538	538	540	540	541	542	545	548
6 Public Utility District	768	795	806	815	819	831	838	845	846	852
7 Federal Entities	134	143	143	143	144	144	145	145	145	145
<b>8 Slice Block</b>	<b>1314</b>	<b>1404</b>	<b>1442</b>	<b>1417</b>	<b>1437</b>	<b>1414</b>	<b>1434</b>	<b>1412</b>	<b>1427</b>	<b>1409</b>
9 Municipality	313	316	322	317	322	317	322	317	320	315
10 Public Utility District	1002	1088	1119	1099	1115	1097	1112	1095	1107	1093
<b>11 Slice Output from T1 System</b>	<b>1504</b>	<b>1516</b>	<b>1486</b>	<b>1513</b>	<b>1485</b>	<b>1512</b>	<b>1482</b>	<b>1508</b>	<b>1480</b>	<b>1508</b>
12 Municipality	357	359	352	359	352	359	351	358	351	358
13 Public Utility District	1147	1156	1134	1154	1133	1154	1130	1150	1129	1150
<b>14 Tier 1 Block</b>	<b>572</b>	<b>571</b>	<b>564</b>	<b>552</b>	<b>550</b>	<b>549</b>	<b>549</b>	<b>548</b>	<b>548</b>	<b>548</b>
15 Municipality	505	505	506	506	506	505	505	504	504	504
16 Public Utility District	67.0	65.7	58.2	46.7	44.4	44.2	44.4	44.5	44.2	44.1
<b>17 USBR Obligation</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>178</b>
18 USBR	178	178	178	178	178	178	178	178	178	178
<b>Total Power Sales Contracts</b>										
19 Cooperative	1839	1819	1821	1822	1831	1837	1846	1851	1862	1870
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	134	143	143	143	144	144	145	145	145	145
22 Municipality	1713	1718	1719	1720	1720	1720	1719	1720	1721	1724
23 Public Utility District	2984	3105	3117	3115	3111	3126	3124	3134	3126	3139
24 USBR	178	178	178	178	178	178	178	178	178	178
<b>25 Total Power Sales Contracts</b>	<b>6861</b>	<b>6974</b>	<b>6990</b>	<b>6989</b>	<b>6996</b>	<b>7017</b>	<b>7024</b>	<b>7040</b>	<b>7044</b>	<b>7069</b>

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***Exhibit 8***  
***Regional Regulated Hydro***  
  
***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Regional: Regulated Hydro**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Regulated Hydro</b>										
1 Albeni Falls Hydroelectric	23.5	23.4	22.7	23.4	23.4	23.4	23.4	23.4	23.4	23.4
2 Alder Hydroelectric	20.5	20.5	20.5	20.4	20.5	20.5	20.5	20.4	20.5	20.5
3 Bonneville	372	366	367	367	366	366	366	367	366	366
4 Boundary	334	334	334	333	334	334	334	333	334	334
5 Box Canyon Dam	52.7	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
6 Brownlee	184	184	184	184	184	184	184	184	184	184
7 Cabinet Gorge	88.7	88.5	88.5	88.4	88.5	88.5	88.5	88.4	88.5	88.5
8 Chelan Lake	40.6	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
9 Chief Joseph	1125	1112	1112	1112	1112	1112	1112	1112	1112	1112
10 Cushman 1	8.33	9.27	9.27	9.25	9.27	9.27	9.27	9.25	9.27	9.27
11 Cushman 2	15.1	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
12 Diablo	82.1	84.2	84.2	84.1	84.2	84.2	84.2	84.1	84.2	84.2
13 Dworshak	140	140	140	140	140	140	140	140	140	140
14 Faraday	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
15 Gorge	97.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
16 Grand Coulee	1962	1939	1939	1939	1939	1939	1939	1939	1939	1939
17 Hells Canyon	149	149	149	149	149	149	149	149	149	149
18 Hungry Horse	74.1	74.1	74.1	74.2	74.1	74.1	74.1	74.2	74.1	74.1
19 Ice Harbor	107	108	108	108	108	108	108	108	108	108
20 John Day	710	699	699	699	699	699	699	699	699	699
21 Kerr	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
22 La Grande	32.5	33.2	33.2	33.1	33.2	33.2	33.2	33.1	33.2	33.2
23 Libby	184	177	177	177	177	177	177	177	177	177
24 Little Falls	16.6	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
25 Little Goose	113	113	113	113	111	113	111	113	111	113
26 Long Lake	44.2	44.0	44.0	43.9	44.0	44.0	44.0	43.9	44.0	44.0
27 Lower Baker	35.4	35.0	35.0	34.9	35.0	35.0	35.0	34.9	35.0	35.0
28 Lower Granite	110	110	109	109	109	109	109	109	109	109
29 Lower Monumental	111	112	112	112	112	112	112	112	112	112
30 Mayfield	69.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
31 McNary	424	421	421	422	421	421	421	422	421	421
32 Merwin	51.9	51.5	51.5	51.4	51.5	51.5	51.5	51.4	51.5	51.5
33 Monroe Street	11.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
34 Mossyrock	97.8	95.1	95.1	95.0	95.1	95.1	95.1	95.0	95.1	95.1
35 Nine Mile	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
36 North Fork	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
37 Noxon Rapids	125	125	125	125	125	125	125	125	125	125
38 Oak Grove	24.5	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
39 Oxbow	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
40 Pelton	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
41 Pelton Rereg	8.42	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40
42 Post Falls	7.35	7.29	7.29	7.28	7.29	7.29	7.29	7.28	7.29	7.29
43 Priest Rapids	415	408	408	408	408	408	408	408	408	408



**Regional: Regulated Hydro**  
**Operating Year: 2021 to 2030 Water Year: 1937**

**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
44 River Mill	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
45 Rock Island	320	317	317	317	317	317	317	317	317	317
46 Rocky Reach	597	590	590	590	590	590	590	590	590	590
47 Ross	73.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
48 Round Butte	86.7	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
49 Swift 1	58.5	58.6	58.6	58.5	58.6	58.6	58.6	58.5	58.6	58.6
50 Swift 2	22.0	22.1	22.1	22.0	22.1	22.1	22.1	22.0	22.1	22.1
51 The Dalles	602	598	599	598	596	598	596	598	596	598
52 Thompson Falls	48.3	48.3	48.3	48.2	48.3	48.3	48.3	48.2	48.3	48.3
53 Upper Baker	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
54 Upper Falls	7.85	7.78	7.78	7.77	7.78	7.78	7.78	7.77	7.78	7.78
55 Wanapum	389	379	382	375	369	375	369	375	369	375
56 Wells	357	353	353	353	352	353	352	353	352	353
57 Yale	57.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
<b>Total Regulated Hydro</b>										
58 Federal Entities	6058	5992	5992	5992	5987	5992	5987	5992	5987	5992
59 Investor Owned Utilities	1726	1718	1718	1716	1716	1717	1716	1716	1654	1649
60 Marketer	528	495	424	385	385	385	385	385	385	385
61 Municipality	900	906	906	904	904	905	904	904	904	905
62 Public Utility District	1179	1187	1260	1294	1289	1294	1289	1294	1351	1363
<b>63 Total Regulated Hydro</b>	<b>10391</b>	<b>10298</b>	<b>10300</b>	<b>10292</b>	<b>10281</b>	<b>10293</b>	<b>10281</b>	<b>10292</b>	<b>10281</b>	<b>10293</b>

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***Exhibit 9***  
***Regional Independent Hydro***  
  
***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Regional: Independent Hydro**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Independent Hydro</b>										
1 American Falls Hydroelectric	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2 Anderson Ranch	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
3 Arrowrock Hydro	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
6 Big Cliff	9.88	9.88	9.88	9.86	9.88	9.88	9.88	9.86	9.88	9.88
7 Big Fork	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71
8 Black Canyon	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
9 Bliss	35.1	35.1	35.1	35.0	35.1	35.1	35.1	35.0	35.1	35.1
10 Boise River Diversion	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
11 Calispel Creek	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	8.84	8.84	8.84	8.84	8.84	8.84	8.84	8.84	8.84	8.84
14 Cedar Falls	9.04	9.04	9.04	9.04	9.04	9.04	9.04	9.04	9.04	9.04
15 Chandler	5.60	5.60	5.60	5.61	5.60	5.60	5.60	5.61	5.60	5.60
16 CJ Strike	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
17 Clear Lake	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
18 Cougar	19.0	19.0	19.0	18.9	19.0	19.0	19.0	18.9	19.0	19.0
19 Cowlitz Falls	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
20 Detroit	41.3	41.3	41.3	41.2	41.3	41.3	41.3	41.2	41.3	41.3
21 Dexter	9.22	9.22	9.22	9.21	9.22	9.22	9.22	9.21	9.22	9.22
22 Eagle Point	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
23 Electron	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
24 Felt Hydro Project	3.84	3.84	3.84	3.83	3.84	3.84	3.84	3.83	3.84	3.84
25 Foster	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
26 Gem State Hydro	8.28	8.28	8.28	8.30	8.28	8.28	8.28	8.30	8.28	8.28
27 Grace	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
28 Green Peter	27.4	27.4	27.4	27.3	27.4	27.4	27.4	27.3	27.4	27.4
29 Green Springs	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32
30 Henry M Jackson	43.0	43.0	43.0	42.9	43.0	43.0	43.0	42.9	43.0	43.0
31 Hills Creek	17.8	17.8	17.8	17.7	17.8	17.8	17.8	17.7	17.8	17.8
32 Hood Street	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
33 Idaho Falls - City Plant	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
34 Idaho Falls - Lower Plant #1	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
35 Idaho Falls - Lower Plant #2	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
36 Idaho Falls - Upper Plant	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
37 Island Park	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
38 John Boyle	10.6	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	7.43	7.43	7.43	7.44	7.43	7.43	7.43	7.44	7.43	7.43
42 Lookout Point	35.7	35.7	35.7	35.6	35.7	35.7	35.7	35.6	35.7	35.7
43 Lost Creek	30.1	30.1	30.1	30.0	30.1	30.1	30.1	30.0	30.1	30.1
44 Lower Malad	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63
45 Lower Salmon Falls	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
46 McNary Fishway	8.45	8.45	8.45	8.44	8.45	8.45	8.45	8.44	8.45	8.45

**Regional: Independent Hydro**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
49 Minidoka	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
50 Moyie River	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
51 Newhalem	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
52 North Umpqua	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
53 Oneida	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
54 Packwood Lake	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
55 Palisades	69.2	69.2	69.2	69.0	69.2	69.2	69.2	69.0	69.2	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
59 Rogue	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
60 Roza	6.88	6.88	6.88	6.87	6.88	6.88	6.88	6.87	6.88	6.88
61 Shoshone Falls	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84
62 Smith Creek (Idaho)	6.99	6.99	6.99	6.97	6.99	6.99	6.99	6.97	6.99	6.99
63 Snoqualmie Falls	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
64 Soda Point	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
65 South Fork Tolt	6.55	6.55	6.55	6.54	6.55	6.55	6.55	6.54	6.55	6.55
66 Stone Creek	6.22	6.22	6.22	6.21	6.22	6.22	6.22	6.21	6.22	6.22
67 Swan Falls	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.46	4.46	4.46	4.45	4.46	4.46	4.46	4.45	4.46	4.46
70 Thousand Springs	6.28	6.28	6.28	6.27	6.28	6.28	6.28	6.27	6.28	6.28
71 Trail Bridge	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
72 TW Sullivan	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
73 Twin Falls (ID)	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
74 Upper Malad	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92
75 Upper Salmon A	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41
76 Upper Salmon B	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71
77 Wallowa Falls	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
78 Walterville	5.72	5.72	5.72	5.73	5.72	5.72	5.72	5.73	5.72	5.72
79 Wynoochee Dam	3.38	3.38	3.38	3.39	3.38	3.38	3.38	3.39	3.38	3.38
80 Yelm	7.22	7.22	7.22	7.21	7.22	7.22	7.22	7.21	7.22	7.22
<b>Total Independent Hydro</b>										
81 Cooperative	5.96	5.96	5.96	5.95	5.96	5.96	5.96	5.95	5.96	5.96
82 Federal Entities	349	349	349	349	349	349	349	349	349	349
83 Investor Owned Utilities	511	501	501	500	501	501	501	500	501	501
84 Marketer	6.99	6.99	6.99	6.97	6.99	6.99	6.99	6.97	6.99	6.99
85 Municipality	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
86 Public Utility District	74.0	74.0	74.0	73.9	74.0	74.0	74.0	73.9	74.0	74.0
<b>87 Total Independent Hydro</b>	<b>1035</b>	<b>1024</b>	<b>1024</b>	<b>1023</b>	<b>1024</b>	<b>1024</b>	<b>1024</b>	<b>1023</b>	<b>1024</b>	<b>1024</b>

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***Exhibit 10***  
***Regional Small Hydro***

***Annual Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Regional: Small Hydro**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Small Hydro</b>										
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
4 Barber Dam	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
5 Barney Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
6 Beaverton	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
7 Bell Mountain	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
13 Birch Creek (Gooding, ID)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
14 Black Canyon #3	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
15 Black Creek	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96
16 Blind Canyon	0.57	0.57	0.57	0.56	0.57	0.57	0.57	0.56	0.57	0.57
17 Box Canyon Springs	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
18 Briqqs Creek	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
19 Briqqs Project	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
20 Broadwater	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	3.81	3.81	3.81	3.80	3.81	3.81	3.81	3.80	3.81	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.40	0.41	0.41
31 Cedar Draw Creek	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
32 Central Oregon Siphon	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
35 Clear Springs Trout	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0	0	0	0	0
38 Cowiche	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
39 Crystal Springs	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
40 Curry Cattle Co.	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	2.48	2.48	2.48	2.47	2.48	2.48	2.48	2.47	2.48	2.48
47 Donald Jenni	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
48 Dry Creek	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
52 Eltopia Branch Canal 4.6	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
53 Esquatzel Small Hydro	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
54 Falls Creek (Or)	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88
57 Farmers Irr Dist Proj No 2	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
58 Farmers Irr Dist Proj No 3	0.89	0.89	0.89	0.90	0.89	0.89	0.89	0.90	0.89	0.89



**Regional: Small Hydro**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/5/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
59 Faulkner Ranch	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
60 Fisheries Development #1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0
62 Ford	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
65 Geo-Bon #2	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
66 Georgetown	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	3.24	3.24	3.24	3.23	3.24	3.24	3.24	3.23	3.24	3.24
72 Hazelton B	3.03	3.03	3.03	3.02	3.03	3.03	3.03	3.02	3.03	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
77 James White	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
78 Jim Knight	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
79 John Day Creek	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
80 Juniper Ridge Hydro	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
81 Kasel-Witherspoon	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78
84 Koyle Ranch Power	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
85 L & M Angus Ranch	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
86 Lacombe	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
96 Little Wood River Reservoir	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
97 Low line Canal Drop	5.35	5.35	5.35	5.33	5.35	5.35	5.35	5.33	5.35	5.35
98 Low Line Midway	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
99 Lower Low line	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	3.56	3.56	3.56	3.55	3.56	3.56	3.56	3.55	3.56	3.56
105 Main Canal Headworks	9.82	9.82	9.82	9.80	9.82	9.82	9.82	9.80	9.82	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
108 Meyers Falls 1910	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
109 Middle Fork Irrigation District	2.15	2.15	2.15	2.16	2.15	2.15	2.15	2.16	2.15	2.15
110 Mile 28	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
113 Mink Creek	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
114 Mitchell Butte	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
115 Mora Drop	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/5/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
118 Mud Creek	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
119 N-32 Canal	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
120 Nichols Gap	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
121 Nicholson	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
122 North Fork Sprague	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
123 North Gooding Main	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
124 O. J. Power Company	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
125 Odell Creek	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
126 Opal Springs	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95
127 Orchard Avenue	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
128 Owyhee Dam	1.82	1.82	1.82	1.81	1.82	1.82	1.82	1.81	1.82	1.82
129 Owyhee Tunnel No 1	2.72	2.72	2.72	2.71	2.72	2.72	2.72	2.71	2.72	2.72
130 Pancheri	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
131 PEC Headworks	2.83	2.83	2.83	2.82	2.83	2.83	2.83	2.82	2.83	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
134 Pine Creek	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
135 Poderosa	0.29	0.29	0.29	0.28	0.29	0.29	0.29	0.28	0.29	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	7.18	7.18	7.18	7.20	7.18	7.18	7.18	7.20	7.18	7.18
138 Portneuf River	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
139 Potholes East Canal	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
140 Preston	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
141 Pristine Springs	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
142 Quincy Chute	3.71	3.71	3.71	3.70	3.71	3.71	3.71	3.70	3.71	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
145 Rock Creek #1	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
146 Rock Creek No 2	1.61	1.61	1.61	1.60	1.61	1.61	1.61	1.60	1.61	1.61
147 Rocky Brook	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
148 Russell D. Smith	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
149 Sagebrush	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
152 Shingle Creek	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
153 Shoshone	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
154 Skookumchuck	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
157 Snedigar Ranch	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
158 South Dry Creek	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
165 Summer Falls	37.2	37.2	37.2	37.1	37.2	37.2	37.2	37.1	37.2	37.2
166 Sunshine	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
169 Tiber Dam	3.24	3.24	3.24	3.23	3.24	3.24	3.24	3.23	3.24	3.24
170 Tieton Dam (Yakima)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	9.10	9.10	9.10	9.09	9.10	9.10	9.10	9.09	9.10	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73
175 Walla Walla	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
176 Water Street	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12

**Regional: Small Hydro**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/5/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
177 Watson Hydro	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
178 Weeks Falls	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
181 Wilson Lake	3.14	3.14	3.14	3.13	3.14	3.14	3.14	3.13	3.14	3.14
182 Wisconsin Noble	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
186 Yakama Drop 3	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
187 Youngs Creek	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>										
189 Cooperative	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
192 Investor Owned Utilities	144	144	144	144	144	144	144	144	144	144
193 Marketer	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
194 Municipality	77.1	77.1	77.1	76.9	77.1	77.1	77.1	76.9	77.1	77.1
195 Public Utility District	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
<b>196 Total Small Hydro</b>	<b>242</b>	<b>242</b>	<b>242</b>	<b>241</b>	<b>242</b>	<b>242</b>	<b>242</b>	<b>241</b>	<b>242</b>	<b>242</b>

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***Exhibit 11***  
***Regional Non-Hydro Renewable - Wind***

***Annual Energy***  
***Operating Year 2021 to 2030***

**Regional: Non-Hydro Renewable - Wind**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Non-Hydro Renewable - Wind</b>										
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
3 Benson Creek Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
4 Big Horn Wind	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
5 Biglow Canyon Wind	105.9	105.9	105.9	105.8	105.9	105.9	105.9	105.8	105.9	105.9
6 Burley Butte Wind	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
7 Camp Reed Wind	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
8 Cassia Farms Wind	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
9 Cassia Gulch Wind	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
10 Chopin Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
11 Cold Springs Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
12 Combine Hills Wind	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
13 Condon Wind	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
16 Durbin Creek Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
17 Echo Wind Farm	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
18 Elkhorn Valley Wind Project	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
19 Foote Creek 1 Wind	5.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
20 Foote Creek 2 Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
21 Foote Creek 4 Wind	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
23 Golden Valley Wind	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
24 Goodnoe Hills Wind	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
25 Goshen North (Ridgeline Wind)	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
26 Grayland Wind	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Hammett Hill Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
28 Harvest Wind	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
29 Hay Canyon Wind	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
32 Hopkins Ridge Wind	36.9	36.9	36.9	36.8	36.9	36.9	36.9	36.8	36.9	36.9
33 Horse Butte Wind	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
34 Horseshoe Bend Wind Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
35 Hot Springs Wind	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
36 Jett Creek Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
39 Kittitas Valley Wind	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
40 Klondike Wind 1	5.7	5.7	5.7	5.6	5.7	5.7	5.7	5.6	5.7	5.7
41 Klondike Wind 2	17.7	17.7	17.7	17.6	17.7	17.7	17.7	17.6	17.7	17.7
42 Klondike Wind 3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.6	52.6	52.6
43 Klondike Wind 3a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	71.1	71.1	71.1	71.0	71.1	71.1	71.1	71.0	71.1	71.1
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
48 Linden Ranch Wind	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	143.5	143.5	143.5	143.4	143.5	143.5	143.5	143.4	143.5	143.5
51 Mainline Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
52 Marengo Wind	49.6	49.6	49.6	49.5	49.6	49.6	49.6	49.5	49.6	49.6
53 Meadow Creek Wind	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
54 Milner Dam Wind Farm	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6

**Regional: Non-Hydro Renewable - Wind**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Non-Hydro Renewable - Wind</b>										
55 Montague	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
56 Nine Canyon Wind	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
57 Oregon Trail Wind	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
58 Palouse Wind	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
59 PaTu Wind	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
60 Paynes Ferry Wind Park	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
61 Pebble Springs Wind	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
62 Pilgrim Stage Station Wind Park	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
63 Power County Wind	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
64 Prospector Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65 Rattlesnake Road Wind Farm	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
66 Rock River Wind	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
67 Rockland wind	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
68 Ryegrass Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
69 Salmon Falls Wind	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70 Sawtooth Wind	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
71 Shepherds Flat Wind	198.9	198.9	198.9	198.8	198.9	198.9	198.9	198.9	198.8	198.9
72 Skookumchuck Wind	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
73 Star Point Wind	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
74 Stateline Wind	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
75 Swauk Wind	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76 Thousand Springs Wind Park	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77 Threemile Canyon Wind	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
78 Tuana Gulch Wind	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
79 Tuana Springs Wind	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80 Two Ponds Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
81 Vansycle Wind	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
82 Vantage Wind	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
83 Wheat Field Wind	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
84 White Creek Wind	47.1	47.1	47.1	47.1	47.1	47.1	47.1	45.6	40.5	40.5
85 Wild Horse Wind	64.2	64.2	64.2	64.1	64.2	64.2	64.2	64.1	64.2	64.2
86 Willow Creek Wind	17.0	17.0	17.0	16.9	17.0	17.0	17.0	16.9	17.0	17.0
87 Willow Spring Wind Farm	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
88 Windy Point Wind	93.9	93.9	93.9	93.8	93.9	93.9	93.9	93.8	93.9	93.9
89 Wolverine Creek Wind	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
90 Yahoo Creek Wind	5	5	5	5	5	5	5	5	5	5
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1811</b>	<b>1814</b>	<b>1814</b>	<b>1813</b>	<b>1814</b>	<b>1814</b>	<b>1814</b>	<b>1811</b>	<b>1807</b>	<b>1807</b>

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***Exhibit 12***  
***Regional Non-Hydro Renewable - Solar***

***Annual Energy***  
***Operating Year 2021 to 2030***

**Regional: Non-Hydro Renewable - Solar**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Non-Hydro Renewable - Solar</b>										
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	2.7	2.7	2.7	2.6	2.7	2.7	2.7	2.6	2.7	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
35 Grove Solar Center	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
38 Idaho Solar 1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

**Regional: Non-Hydro Renewable - Solar**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Non-Hydro Renewable - Solar</b>										
52 Old Mill Solar LLC	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
55 Orchard Ranch Solar	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
56 Outback Solar	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
61 Portland Public Schools Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68 Simcoe Solar	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
69 Steel Bridge Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70 Thunderegg Solar Center	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
73 Vale Air Solar Center	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
79 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>	<b>175</b>

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***Exhibit 13***  
***Regional Non-Hydro Renewable - Other***

***Annual Energy***  
***Operating Year 2021 to 2030***

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**Regional: Non-Hydro Renewable - Other**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Non-Hydro Renewable - Other</b>										
1 Bannock County Landfill	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
2 Bettencourt B6 anaerobic digester	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
3 Big Sky Dairy	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.6	14.6	14.6	14.7	14.6	14.6	14.6	14.7	14.6	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	44.4	43.4	43.4	44.7	44.4	43.4	43.4	44.7	44.4	43.4
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
42 Short Mountain	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>177</b>	<b>176</b>	<b>176</b>	<b>178</b>	<b>177</b>	<b>176</b>	<b>176</b>	<b>178</b>	<b>177</b>	<b>176</b>

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***Exhibit 14***  
***Regional Thermal - Nuclear***  
  
***Annual Energy***  
***Operating Year 2021 to 2030***

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**Regional: Thermal - Nuclear**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book** Report Date: 2/4/2020  
 S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Thermal - Nuclear</b>										
1 Columbia Generating Station	993.7	1116.0	993.7	1116.0	993.7	1116.0	993.7	1116.0	993.7	1116.0
<b>2 Total Thermal - Nuclear</b>	<b>994</b>	<b>1116</b>	<b>994</b>	<b>1116</b>	<b>994</b>	<b>1116</b>	<b>994</b>	<b>1116</b>	<b>994</b>	<b>1116</b>

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***Exhibit 15***  
***Regional Thermal - Coal***  
  
***Annual Energy***  
***Operating Year 2021 to 2030***

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**Regional: Thermal - Coal**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Thermal - Coal</b>										
1 Boardman	205.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	810.8	590.3	590.3	601.5	601.4	209.4	0.0	0.0	0.0	0.0
3 Colstrip	1159.7	1065.1	1082.0	1149.7	1064.0	1082.0	1149.7	1064.3	1082.0	1149.7
4 Colstrip Energy Project	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
5 Jim Bridger	1878.5	1869.4	1878.5	1863.3	1874.5	1838.5	1878.5	1869.5	1878.5	1863.2
6 Valmy	225.5	163.5	115.5	115.6	115.5	50.4	0.0	0.0	0.0	0.0
<b>7 Total Thermal - Coal</b>	<b>4290</b>	<b>3699</b>	<b>3677</b>	<b>3741</b>	<b>3666</b>	<b>3191</b>	<b>3039</b>	<b>2945</b>	<b>2971</b>	<b>3024</b>

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***Exhibit 16***  
***Regional Thermal - Natural Gas***  
  
***Annual Energy***  
***Operating Year 2021 to 2030***

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**Regional: Thermal - Natural Gas**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Thermal - Natural Gas</b>										
1 Basin Creek Project	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2 Beaver	461.9	461.8	461.3	459.3	459.2	459.2	459.2	459.3	459.2	459.2
3 Bennett Mountain Peaking Plant	150.8	150.8	150.8	150.9	150.8	150.8	150.8	150.9	150.8	150.8
4 Boulder Park	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
5 Carty Generating Station	385.4	385.4	385.4	385.5	385.4	385.4	385.4	385.5	385.4	385.4
6 Chehalis Generation Facility	449.7	449.7	449.7	449.8	449.7	449.7	449.7	449.8	449.7	446.3
7 Dave Gates Generating Station	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
8 Encogen	155.5	155.5	155.5	155.6	155.5	155.5	155.5	155.6	155.5	155.5
9 Evander Andrews Complex	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1
10 Frederickson CT	137.6	137.6	112.5	110.1	110.1	110.1	110.1	110.1	110.1	110.1
11 Frederickson Power Project	223.6	223.6	223.6	223.7	223.6	223.6	223.6	223.7	223.6	223.6
12 Fredonia	267.7	267.7	267.7	267.9	267.7	267.7	267.7	267.9	267.7	267.7
13 Goldendale Energy Center	228.4	228.4	228.4	228.5	228.4	228.4	228.4	228.5	228.4	228.4
14 Grimes Way	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
15 Kettle Falls Station (CT)	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
16 Klamath Generation Facility	435.5	435.5	435.5	435.6	435.5	435.5	435.5	435.6	435.5	435.5
17 Klamath Generation Peakings (CT)	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
18 Lancaster	211.6	210.3	210.3	211.1	211.6	210.3	210.3	211.1	211.6	210.3
19 Langley Gulch CT	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0
20 Mint Farm Energy Center	252.7	252.7	252.7	252.8	252.7	252.7	252.7	252.8	252.7	252.7
21 Northeast 1 & 2	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
22 Olympic View	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	545.0	545.0	563.7	527.7	527.3	527.3	527.3	527.5	527.3	527.3
25 Rathdrum	150.9	150.9	150.9	151.0	150.9	150.9	150.9	151.0	150.9	150.9
26 River Road	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0
27 Satsop Combustion Turbine Project	584.4	584.4	584.4	584.5	584.4	584.4	584.4	584.5	584.4	584.4
28 University of Washington Power Plant	13.5	13.5	13.5	13.6	13.5	13.5	13.5	13.6	13.5	13.5
29 Whitehorn	132.0	132.0	132.0	132.1	132.0	132.0	132.0	132.1	132.0	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>5874</b>	<b>5872</b>	<b>5865</b>	<b>5827</b>	<b>5826</b>	<b>5824</b>	<b>5824</b>	<b>5827</b>	<b>5826</b>	<b>5821</b>

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***Exhibit 17***  
***Regional Thermal - Petroleum***

***Annual Energy***  
***Operating Year 2021 to 2030***

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**Regional: Thermal - Petroleum**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Thermal - Petroleum</b>										
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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***Exhibit 18***  
***Regional Thermal - Biofuel***  
  
***Annual Energy***  
***Operating Year 2021 to 2030***

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**Regional: Thermal - Biofuel**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book** Report Date: 2/4/2020  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Thermal - Biofuel</b>										
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
3 Spokane MSW	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>26</b>

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***Exhibit 19***  
***Regional Thermal - Cogeneration***

***Annual Energy***  
***Operating Year 2021 to 2030***

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**Regional: Thermal - Cogeneration**  
**Operating Year: 2021 to 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Thermal - Cogeneration</b>										
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	202.5	211.9	199.8	205.4	205.3	205.3	205.3	205.4	205.3	205.3
6 Coyote Springs 2	287.1	287.1	287.1	287.2	287.1	287.1	287.1	287.2	287.1	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	225.0	225.0	225.0	225.1	225.0	225.0	225.0	225.1	225.0	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
11 Hampton Lumber Mill (Darrington)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12 Hermiston Generation Project	408.0	399.1	401.0	408.1	399.1	401.0	408.0	399.3	401.0	408.0
13 Hermiston Power Project	567.1	567.1	567.1	567.2	567.1	567.1	567.1	567.2	567.1	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	16.4	16.4	16.7	16.7	16.4	16.4	16.4	16.7	16.7	16.4
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
22 Rupert Cogeneration Facility	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
28 Sumas	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
31 Tamarack	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
32 TASC0 - Nampa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
39 Weyerhaeuser Longview	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2315</b>	<b>2316</b>	<b>2306</b>	<b>2319</b>	<b>2309</b>	<b>2311</b>	<b>2318</b>	<b>2310</b>	<b>2312</b>	<b>2318</b>

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***Exhibit 20***  
***Non-Federal CER Deliveries to BPA***

***Annual Energy***  
***Operating Year 2021 to 2030 Using***  
***1937-Water Conditions***

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**Non-Federal CER Deliveries to BPA**  
**Operating Year 2021 to 2030**  
**2019 White Book** Report Date: **4/7/2020**

S184-WB-20191230-103442

Energy-aMW	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Pacific Northwest</b>										
1 CHPD to BPA CEAEA for Rock Island	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.1	37.0	37.1	37.1	37.1	37.1	37.1	37.0	37.1	37.1
3 DOPD to BPA CEAEA for Wells	24.0	23.9	24.0	24.0	24.0	24.0	24.0	23.9	24.0	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.1	29.0	29.1	29.1	29.1	29.1	29.1	29.0	29.1	29.1
5 GCPD to BPA CEAEA for Wanapum	27.9	27.8	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
<b>6 Total Imports From PNW</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>
<b>Total Imports</b>										
7 Federal Entities	135	135	135	135	135	135	135	135	135	135
<b>8 Total Imports</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>135</b>

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***Exhibit 21***  
***Federal Report Surplus Deficit By Water Year***  
***80 Water Year Federal Surplus/Deficit***

***Annual Energy***  
***Operating Year 2021 to 2030***

**Federal Report Surplus Deficit By Water Year**  
**Operating Year 2021 to 2030**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1 1929 Federal Report Surplus Deficit	-117	-104	-190	-69	-197	17.0	-37.7	48.1	-77	16.6
2 1930 Federal Report Surplus Deficit	-166	-220	-306	-185	-317	-99	-158	-67	-197	-99
3 1931 Federal Report Surplus Deficit	-147	-220	-304	-187	-314	-101	-155	-70	-194	-101
4 1932 Federal Report Surplus Deficit	928	817	758	843	703	936	862	961	823	936
5 1933 Federal Report Surplus Deficit	1719	1667	1569	1636	1507	1721	1667	1754	1627	1720
6 1934 Federal Report Surplus Deficit	2587	2650	2625	2666	2501	2742	2661	2779	2621	2742
7 1935 Federal Report Surplus Deficit	832	799	724	820	680	903	840	938	800	902
8 1936 Federal Report Surplus Deficit	627	595	521	614	477	703	636	731	597	703
9 1937 Federal Report Surplus Deficit	-194	-270	-354	-236	-367	-148	-207	-118	-247	-148
10 1938 Federal Report Surplus Deficit	1403	1336	1288	1376	1232	1461	1392	1494	1352	1461
11 1939 Federal Report Surplus Deficit	393	393	310	421	284	507	444	539	404	506
12 1940 Federal Report Surplus Deficit	619	540	458	556	420	643	580	674	541	643
13 1941 Federal Report Surplus Deficit	16.7	-27.6	-111	2.77	-127	89	32.9	121	-6.6	89
14 1942 Federal Report Surplus Deficit	994	923	849	928	785	1013	945	1046	905	1012
15 1943 Federal Report Surplus Deficit	1988	2021	1928	2010	1848	2096	2008	2128	1968	2095
16 1944 Federal Report Surplus Deficit	-212	-226	-310	-190	-320	-105	-160	-73	-200	-105
17 1945 Federal Report Surplus Deficit	134	36.1	-37.0	71	-66	159	94	189	54	158
18 1946 Federal Report Surplus Deficit	1531	1385	1344	1417	1275	1503	1435	1534	1395	1502
19 1947 Federal Report Surplus Deficit	1999	2040	1959	2021	1877	2112	2037	2146	1997	2111
20 1948 Federal Report Surplus Deficit	2531	2387	2351	2396	2236	2480	2396	2513	2356	2480
21 1949 Federal Report Surplus Deficit	1460	1521	1444	1521	1381	1602	1540	1633	1501	1601
22 1950 Federal Report Surplus Deficit	2065	1960	1890	1960	1810	2043	1969	2078	1930	2042
23 1951 Federal Report Surplus Deficit	2845	2906	2849	2901	2736	2977	2896	3014	2856	2977
24 1952 Federal Report Surplus Deficit	2320	2248	2215	2287	2149	2371	2309	2404	2269	2370
25 1953 Federal Report Surplus Deficit	1298	1235	1148	1238	1090	1317	1249	1356	1210	1317
26 1954 Federal Report Surplus Deficit	2123	1996	1925	1990	1836	2072	1996	2107	1956	2071
27 1955 Federal Report Surplus Deficit	1569	1562	1452	1525	1375	1597	1535	1626	1495	1596
28 1956 Federal Report Surplus Deficit	3104	2991	2957	2966	2837	3047	2996	3082	2957	3046
29 1957 Federal Report Surplus Deficit	1809	1825	1767	1816	1692	1902	1851	1931	1812	1902
30 1958 Federal Report Surplus Deficit	1410	1405	1324	1396	1253	1481	1412	1514	1373	1480
31 1959 Federal Report Surplus Deficit	2302	2192	2137	2184	2045	2265	2205	2302	2165	2265
32 1960 Federal Report Surplus Deficit	2354	2441	2371	2432	2271	2504	2430	2535	2391	2503
33 1961 Federal Report Surplus Deficit	1678	1567	1519	1585	1441	1668	1600	1703	1561	1668
34 1962 Federal Report Surplus Deficit	1167	1146	1081	1182	1043	1265	1203	1300	1163	1265
35 1963 Federal Report Surplus Deficit	1436	1396	1320	1403	1256	1487	1416	1521	1377	1486
36 1964 Federal Report Surplus Deficit	1440	1354	1260	1352	1218	1439	1378	1470	1338	1439
37 1965 Federal Report Surplus Deficit	2846	2857	2815	2847	2698	2922	2858	2960	2818	2922
38 1966 Federal Report Surplus Deficit	1210	1177	1089	1184	1028	1264	1188	1297	1149	1263
39 1967 Federal Report Surplus Deficit	1844	1742	1689	1754	1583	1836	1743	1872	1703	1835
40 1968 Federal Report Surplus Deficit	1397	1426	1347	1415	1277	1497	1437	1532	1397	1496
41 1969 Federal Report Surplus Deficit	2719	2641	2605	2659	2508	2733	2668	2768	2628	2732
42 1970 Federal Report Surplus Deficit	1132	1116	1039	1121	990	1203	1150	1238	1110	1202
43 1971 Federal Report Surplus Deficit	2655	2511	2459	2508	2358	2587	2518	2625	2478	2587
44 1972 Federal Report Surplus Deficit	2943	2947	2886	2939	2766	3015	2925	3050	2886	3014
45 1973 Federal Report Surplus Deficit	626	653	572	674	531	750	690	785	651	749
46 1974 Federal Report Surplus Deficit	2981	2868	2818	2842	2706	2922	2865	2960	2826	2922
47 1975 Federal Report Surplus Deficit	1814	1817	1776	1830	1684	1909	1843	1941	1804	1908
48 1976 Federal Report Surplus Deficit	2960	2932	2890	2952	2813	3033	2972	3068	2933	3032
49 1977 Federal Report Surplus Deficit	326	351	263	380	235	449	395	480	356	449
50 1978 Federal Report Surplus Deficit	1187	1054	1011	1084	950	1169	1110	1202	1070	1169
51 1979 Federal Report Surplus Deficit	697	752	664	766	637	854	797	885	757	854
52 1980 Federal Report Surplus Deficit	884	790	729	821	686	909	846	938	806	909
53 1981 Federal Report Surplus Deficit	1618	1621	1536	1619	1467	1700	1626	1737	1587	1700
54 1982 Federal Report Surplus Deficit	2701	2692	2617	2671	2525	2746	2685	2784	2645	2746
55 1983 Federal Report Surplus Deficit	2357	2437	2343	2413	2255	2486	2414	2520	2375	2485

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2021 to 2030**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
56 1984 Federal Report Surplus Deficit	2409	2466	2400	2450	2296	2529	2456	2562	2417	2528
57 1985 Federal Report Surplus Deficit	977	964	879	980	847	1065	1006	1098	967	1065
58 1986 Federal Report Surplus Deficit	1731	1745	1656	1716	1581	1796	1740	1833	1701	1796
59 1987 Federal Report Surplus Deficit	568	501	426	531	387	619	547	649	507	618
60 1988 Federal Report Surplus Deficit	-189	-207	-290	-177	-305	-90	-146	-60	-185	-91
61 1989 Federal Report Surplus Deficit	530	482	405	509	378	600	538	627	498	599
62 1990 Federal Report Surplus Deficit	1491	1413	1350	1428	1264	1510	1424	1545	1384	1510
63 1991 Federal Report Surplus Deficit	2014	1979	1901	1968	1805	2051	1965	2085	1925	2051
64 1992 Federal Report Surplus Deficit	277	265	181	297	166	382	325	413	286	381
65 1993 Federal Report Surplus Deficit	346	279	195	310	182	401	342	428	302	401
66 1994 Federal Report Surplus Deficit	214	126	39.5	157	25.7	243	185	274	146	243
67 1995 Federal Report Surplus Deficit	952	893	822	915	763	1000	923	1033	883	999
68 1996 Federal Report Surplus Deficit	3225	3327	3303	3336	3188	3417	3348	3454	3308	3416
69 1997 Federal Report Surplus Deficit	3280	3251	3183	3202	3035	3279	3194	3316	3155	3278
70 1998 Federal Report Surplus Deficit	1977	2000	1936	1994	1832	2067	1992	2101	1952	2067
71 1999 Federal Report Surplus Deficit	2321	2362	2254	2313	2150	2393	2310	2429	2270	2392
72 2000 Federal Report Surplus Deficit	1831	1867	1802	1881	1733	1960	1893	1992	1853	1960
73 2001 Federal Report Surplus Deficit	-221	-245	-329	-211	-340	-125	-180	-93	-220	-125
74 2002 Federal Report Surplus Deficit	860	738	640	752	598	841	757	870	718	840
75 2003 Federal Report Surplus Deficit	594	605	531	618	481	705	640	736	601	704
76 2004 Federal Report Surplus Deficit	395	330	246	358	229	447	389	476	349	446
77 2005 Federal Report Surplus Deficit	719	755	671	770	635	851	795	886	755	851
78 2006 Federal Report Surplus Deficit	1859	1785	1693	1775	1628	1857	1788	1892	1748	1857
79 2007 Federal Report Surplus Deficit	1267	1235	1148	1232	1079	1320	1238	1352	1199	1320
80 2008 Federal Report Surplus Deficit	1023	918	827	925	787	1012	947	1043	907	1012
<b>Ranked Averages</b>										
81 <b>Bottom 10 pct</b>	<b>-154</b>	<b>-190</b>	<b>-274</b>	<b>-157</b>	<b>-286</b>	<b>-70</b>	<b>-126</b>	<b>-39.0</b>	<b>-166</b>	<b>-71</b>
82 <b>Middle 80 pct</b>	<b>1410</b>	<b>1374</b>	<b>1301</b>	<b>1382</b>	<b>1237</b>	<b>1465</b>	<b>1397</b>	<b>1497</b>	<b>1357</b>	<b>1464</b>
83 <b>Top 10 pct</b>	<b>3023</b>	<b>3010</b>	<b>2963</b>	<b>2998</b>	<b>2847</b>	<b>3076</b>	<b>3007</b>	<b>3113</b>	<b>2967</b>	<b>3076</b>

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***Exhibit 22***  
***Regional Report Surplus Deficit By Water Year***  
***80 Water Year Regional Surplus/Deficit***

***Annual Energy***  
***Operating Year 2021 to 2030***

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2021 to 2030**

**2019 White Book Report Date: 2/5/2020**

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Energy-aMW - Surplus Deficit	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1 1929 Regional Report Surplus Deficit	3376	2696	2360	2444	2132	1699	1359	1331	1151	1247
2 1930 Regional Report Surplus Deficit	3038	2220	1882	1987	1669	1240	896	875	688	789
3 1931 Regional Report Surplus Deficit	2955	2071	1735	1833	1523	1088	750	721	543	636
4 1932 Regional Report Surplus Deficit	5240	4288	3984	4039	3714	3305	2941	2927	2734	2853
5 1933 Regional Report Surplus Deficit	6845	6072	5711	5736	5421	4987	4648	4623	4441	4536
6 1934 Regional Report Surplus Deficit	8661	8026	7761	7767	7404	7005	6631	6648	6423	6553
7 1935 Regional Report Surplus Deficit	5331	4549	4222	4284	3950	3531	3177	3171	2969	3080
8 1936 Regional Report Surplus Deficit	4629	3875	3552	3617	3294	2878	2520	2504	2313	2426
9 1937 Regional Report Surplus Deficit	2974	2132	1800	1892	1571	1150	798	780	590	698
10 1938 Regional Report Surplus Deficit	6343	5483	5192	5242	4899	4493	4126	4129	3918	4042
11 1939 Regional Report Surplus Deficit	4363	3650	3315	3401	3073	2653	2300	2288	2093	2201
12 1940 Regional Report Surplus Deficit	4542	3693	3362	3428	3100	2682	2327	2316	2120	2230
13 1941 Regional Report Surplus Deficit	3194	2392	2056	2152	1837	1406	1064	1040	857	954
14 1942 Regional Report Surplus Deficit	5214	4335	4013	4061	3728	3312	2955	2948	2747	2860
15 1943 Regional Report Surplus Deficit	7493	6805	6450	6501	6141	5753	5368	5388	5160	5302
16 1944 Regional Report Surplus Deficit	3077	2347	2011	2115	1800	1368	1027	1002	820	916
17 1945 Regional Report Surplus Deficit	3727	2785	2461	2546	2221	1802	1448	1433	1241	1350
18 1946 Regional Report Surplus Deficit	6711	5747	5466	5503	5170	4757	4397	4391	4190	4305
19 1947 Regional Report Surplus Deficit	7562	6909	6576	6596	6261	5857	5488	5497	5281	5405
20 1948 Regional Report Surplus Deficit	8421	7505	7231	7235	6875	6487	6102	6122	5894	6035
21 1949 Regional Report Surplus Deficit	6566	5939	5617	5654	5325	4902	4552	4534	4345	4450
22 1950 Regional Report Surplus Deficit	7881	6996	6677	6713	6363	5960	5590	5600	5382	5508
23 1951 Regional Report Surplus Deficit	9638	9006	8701	8710	8343	7947	7569	7591	7362	7495
24 1952 Regional Report Surplus Deficit	8216	7382	7121	7146	6815	6396	6042	6033	5835	5944
25 1953 Regional Report Surplus Deficit	6153	5334	4992	5054	4710	4294	3937	3941	3730	3842
26 1954 Regional Report Surplus Deficit	7922	7029	6710	6742	6393	5989	5620	5630	5412	5537
27 1955 Regional Report Surplus Deficit	6713	5976	5607	5645	5303	4882	4530	4511	4322	4430
28 1956 Regional Report Surplus Deficit	9844	8984	8715	8666	8350	7913	7576	7552	7369	7461
29 1957 Regional Report Surplus Deficit	7252	6580	6276	6284	5972	5538	5199	5167	4992	5086
30 1958 Regional Report Surplus Deficit	6334	5611	5278	5321	4985	4569	4212	4209	4005	4118
31 1959 Regional Report Surplus Deficit	8106	7234	6933	6944	6610	6189	5837	5831	5629	5737
32 1960 Regional Report Surplus Deficit	8382	7808	7491	7505	7146	6740	6373	6372	6166	6288
33 1961 Regional Report Surplus Deficit	6819	5942	5653	5688	5349	4934	4576	4575	4368	4483
34 1962 Regional Report Surplus Deficit	5817	5066	4751	4809	4472	4057	3699	3696	3492	3606
35 1963 Regional Report Surplus Deficit	6464	5674	5350	5401	5060	4648	4287	4289	4079	4196
36 1964 Regional Report Surplus Deficit	6464	5600	5253	5315	4990	4569	4217	4202	4009	4118
37 1965 Regional Report Surplus Deficit	9172	8480	8200	8191	7848	7427	7075	7072	6867	6976
38 1966 Regional Report Surplus Deficit	6106	5297	4956	5019	4667	4266	3894	3901	3687	3814
39 1967 Regional Report Surplus Deficit	7266	6409	6111	6146	5776	5391	5003	5034	4796	4940
40 1968 Regional Report Surplus Deficit	6562	5888	5560	5591	5268	4836	4495	4478	4287	4384
41 1969 Regional Report Surplus Deficit	8983	8156	7881	7894	7543	7131	6770	6771	6563	6680
42 1970 Regional Report Surplus Deficit	5850	5098	4773	4818	4504	4064	3731	3705	3524	3612
43 1971 Regional Report Surplus Deficit	8861	7922	7625	7635	7284	6876	6511	6522	6303	6424
44 1972 Regional Report Surplus Deficit	9651	8976	8668	8687	8315	7926	7542	7567	7335	7474
45 1973 Regional Report Surplus Deficit	4985	4299	3966	4047	3715	3287	2942	2926	2734	2835
46 1974 Regional Report Surplus Deficit	9480	8624	8328	8309	7977	7549	7204	7197	6997	7098
47 1975 Regional Report Surplus Deficit	7391	6683	6402	6421	6084	5665	5310	5300	5103	5213
48 1976 Regional Report Surplus Deficit	9606	8844	8562	8582	8252	7827	7479	7466	7271	7375
49 1977 Regional Report Surplus Deficit	3981	3275	2933	3057	2724	2290	1951	1922	1744	1838
50 1978 Regional Report Surplus Deficit	5826	4879	4594	4623	4290	3875	3517	3510	3309	3423
51 1979 Regional Report Surplus Deficit	4971	4334	3995	4060	3750	3320	2977	2952	2769	2868
52 1980 Regional Report Surplus Deficit	5353	4471	4166	4230	3910	3487	3137	3118	2929	3036
53 1981 Regional Report Surplus Deficit	6677	5944	5601	5659	5311	4902	4538	4546	4331	4451
54 1982 Regional Report Surplus Deficit	8804	8086	7758	7779	7438	7015	6665	6661	6458	6563
55 1983 Regional Report Surplus Deficit	8456	7845	7496	7516	7159	6750	6386	6390	6178	6298

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2021 to 2030**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
56 1984 Regional Report Surplus Deficit	8371	7731	7425	7427	7072	6671	6299	6307	6092	6220
57 1985 Regional Report Surplus Deficit	5669	4905	4566	4631	4311	3884	3537	3518	3330	3433
58 1986 Regional Report Surplus Deficit	7192	6445	6105	6110	5784	5354	5010	4997	4803	4902
59 1987 Regional Report Surplus Deficit	4689	3862	3538	3622	3289	2877	2516	2510	2309	2426
60 1988 Regional Report Surplus Deficit	3011	2306	1971	2063	1753	1318	980	950	772	867
61 1989 Regional Report Surplus Deficit	4622	3803	3484	3551	3228	2814	2455	2439	2247	2362
62 1990 Regional Report Surplus Deficit	6605	5780	5469	5519	5157	4766	4384	4406	4177	4314
63 1991 Regional Report Surplus Deficit	7637	6869	6541	6578	6215	5826	5442	5465	5235	5374
64 1992 Regional Report Surplus Deficit	3850	3120	2782	2880	2561	2131	1788	1765	1580	1679
65 1993 Regional Report Surplus Deficit	3950	3172	2834	2918	2598	2180	1825	1806	1617	1728
66 1994 Regional Report Surplus Deficit	3803	2938	2601	2694	2376	1947	1603	1580	1396	1496
67 1995 Regional Report Surplus Deficit	5419	4612	4293	4362	4010	3611	3237	3249	3029	3159
68 1996 Regional Report Surplus Deficit	10179	9593	9328	9318	8973	8559	8200	8205	7992	8108
69 1997 Regional Report Surplus Deficit	10057	9322	8999	8972	8605	8209	7832	7854	7624	7758
70 1998 Regional Report Surplus Deficit	7745	7070	6759	6784	6427	6020	5654	5657	5447	5569
71 1999 Regional Report Surplus Deficit	8361	7703	7333	7350	6989	6593	6216	6235	6008	6142
72 2000 Regional Report Surplus Deficit	7398	6696	6382	6426	6083	5671	5310	5306	5102	5220
73 2001 Regional Report Surplus Deficit	2825	2055	1719	1819	1507	1074	733	707	526	622
74 2002 Regional Report Surplus Deficit	5086	4190	3836	3925	3570	3182	2797	2813	2589	2731
75 2003 Regional Report Surplus Deficit	4476	3803	3480	3539	3213	2792	2440	2426	2232	2340
76 2004 Regional Report Surplus Deficit	4131	3349	3016	3104	2776	2361	2003	1992	1795	1909
77 2005 Regional Report Surplus Deficit	4799	4128	3791	3860	3538	3108	2765	2747	2557	2656
78 2006 Regional Report Surplus Deficit	6896	6110	5763	5817	5470	5063	4697	4704	4489	4612
79 2007 Regional Report Surplus Deficit	5967	5266	4929	4977	4630	4234	3857	3868	3649	3782
80 2008 Regional Report Surplus Deficit	5263	4450	4112	4175	3854	3432	3080	3062	2873	2980
<b>Ranked Averages</b>										
81 <b>Bottom 10 pct</b>	<b>3056</b>	<b>2277</b>	<b>1942</b>	<b>2038</b>	<b>1724</b>	<b>1293</b>	<b>951</b>	<b>926</b>	<b>743</b>	<b>841</b>
82 <b>Middle 80 pct</b>	<b>6346</b>	<b>5570</b>	<b>5248</b>	<b>5296</b>	<b>4958</b>	<b>4544</b>	<b>4185</b>	<b>4181</b>	<b>3978</b>	<b>4093</b>
83 <b>Top 10 pct</b>	<b>9704</b>	<b>8979</b>	<b>8688</b>	<b>8679</b>	<b>8333</b>	<b>7920</b>	<b>7560</b>	<b>7563</b>	<b>7352</b>	<b>7468</b>

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## **Section 2: Monthly Energy Operating Year 2020 to 2029**

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***Exhibit 23***  
***Federal Report Surplus Deficit***

***Monthly Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Loads and Resources - Federal System**  
**Operating Year: 2021 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>1</sup> <b>Load Following</b>	3545	3525	3157	2949	3423	3921	3883	3673	3225	3264	3264	3258	3472	3745	3458
<sup>2</sup> Preference Customers	3122	3095	2785	2727	3267	3739	3704	3496	3021	2895	2895	2813	3001	3210	3146
<sup>3</sup> Federal Agencies	118	117	108	114	140	168	168	161	138	124	124	118	119	132	134
<sup>4</sup> USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>5</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>6</sup> <b>Tier 1 Block</b>	385	383	633	526	865	865	950	894	848	417	417	148	21.1	338	572
<sup>7</sup> Tier 1 Block	385	383	633	526	865	865	950	894	848	417	417	148	21.1	338	572
<sup>8</sup> <b>Slice</b>	2784	2742	2547	2561	3188	3321	3021	2974	2785	2430	2325	2467	2964	2857	2818
<sup>9</sup> Slice Block	1182	1182	1126	1191	1392	1598	1591	1459	1346	1250	1250	1211	1187	1243	1314
<sup>10</sup> Slice Output from T1 System	1602	1560	1421	1370	1796	1723	1431	1515	1439	1181	1075	1255	1778	1615	1504
<sup>11</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>12</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>13</sup> <b>Contract Deliveries</b>	940	995	862	744	746	745	821	821	817	817	817	817	817	838	818
<sup>14</sup> Exports	711	767	635	635	635	635	607	607	607	607	607	607	607	629	629
<sup>15</sup> Intra-Regional Transfers (Out)	229	228	228	110	112	110	213	213	209	209	209	209	209	209	188
<sup>16</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>17</sup> <b>Total Firm Obligations</b>	<b>7666</b>	<b>7657</b>	<b>7210</b>	<b>6792</b>	<b>8234</b>	<b>8864</b>	<b>8687</b>	<b>8374</b>	<b>7686</b>	<b>6940</b>	<b>6834</b>	<b>6702</b>	<b>7287</b>	<b>7790</b>	<b>7679</b>
<b>Net Resources</b>															
<sup>18</sup> <b>Hydro</b>	6934	6804	5991	5596	7449	7119	5793	6174	5865	4838	4363	6035	8404	7024	6410
<sup>19</sup> Regulated Hydro - Net	6569	6443	5649	5287	7190	6944	5677	6043	5632	4400	3917	5313	7693	6615	6058
<sup>20</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>21</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88



**Loads and Resources - Federal System**  
**Operating Year: 2021 Water Year: 1937**  
**2019 White Book** Report Date: **4/7/2020** *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>22 Non-Hydro Renewable</b>	37.1	55.7	51.8	38.6	55.3	42.1	22.5	37.3	42.9	76.7	64.5	69.0	68.2	66.7	51.0
23 Wind - Net	37.1	55.7	51.8	38.6	55.3	42.1	22.5	37.3	42.9	76.7	64.5	69.0	68.2	66.7	51.0
24 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>26 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
27 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
28 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>33 Contract Purchases</b>	266	254	261	279	279	285	274	280	281	254	252	247	265	169	261
34 Imports	65.4	64.5	64.9	116	114	115	114	115	116	65.4	65.4	64.4	65.4	1.00	84.5
35 Intra-Regional Transfers (In)	33.0	31.2	32.3	0	0	0	0	0	0	28.9	28.9	26.9	28.9	0	12.4
36 Non-Federal CER	137	128	137	138	131	137	132	135	138	137	137	132	137	137	135
37 Slice Transmission Loss Return	30.5	29.7	27.0	26.1	34.1	32.8	27.2	28.8	27.4	22.5	20.4	23.9	33.8	30.7	28.6
38 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>39 Reserves &amp; Losses</b>	-250	-247	-222	-211	-265	-256	-215	-227	-218	-188	-173	-203	-275	-251	-231
40 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 Transmission Losses	-250	-247	-222	-211	-265	-256	-215	-227	-218	-188	-173	-203	-275	-251	-231
<b>43 Total Net Resources</b>	<b>8103</b>	<b>7983</b>	<b>7199</b>	<b>6819</b>	<b>8635</b>	<b>8307</b>	<b>6990</b>	<b>7380</b>	<b>7087</b>	<b>6097</b>	<b>5621</b>	<b>6509</b>	<b>8871</b>	<b>8124</b>	<b>7484</b>
<b>44 Total Surplus/Deficit</b>	<b>437</b>	<b>326</b>	<b>-12</b>	<b>27</b>	<b>401</b>	<b>-557</b>	<b>-1,697</b>	<b>-994</b>	<b>-599</b>	<b>-843</b>	<b>-1,213</b>	<b>-193</b>	<b>1,585</b>	<b>334</b>	<b>-194</b>

**Loads and Resources - Federal System**  
**Operating Year: 2022 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>45</sup> <b>Load Following</b>	3545	3572	3174	2961	3436	3935	3894	3700	3253	3271	3271	3261	3476	3749	3472
<sup>46</sup> Preference Customers	3102	3139	2792	2728	3269	3742	3705	3512	3040	2895	2895	2810	2999	3209	3151
<sup>47</sup> Federal Agencies	128	129	119	125	152	179	178	172	148	132	132	123	124	137	143
<sup>48</sup> USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>49</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>50</sup> <b>Tier 1 Block</b>	380	383	629	525	864	863	948	892	846	416	416	148	20.6	337	571
<sup>51</sup> Tier 1 Block	380	383	629	525	864	863	948	892	846	416	416	148	20.6	337	571
<sup>52</sup> <b>Slice</b>	2724	2738	2477	2659	3295	3432	3131	3079	2887	2530	2425	2724	3202	2948	2920
<sup>53</sup> Slice Block	1214	1214	1158	1290	1499	1710	1701	1564	1447	1350	1350	1307	1279	1336	1404
<sup>54</sup> Slice Output from T1 System	1510	1524	1319	1369	1797	1723	1431	1515	1440	1180	1075	1417	1923	1612	1516
<sup>55</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>56</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>57</sup> <b>Contract Deliveries</b>	893	949	817	817	821	821	668	668	664	664	664	664	664	685	740
<sup>58</sup> Exports	684	740	607	607	607	607	454	454	454	454	454	454	454	476	529
<sup>59</sup> Intra-Regional Transfers (Out)	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
<sup>60</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>61</sup> <b>Total Firm Obligations</b>	<b>7554</b>	<b>7654</b>	<b>7109</b>	<b>6973</b>	<b>8428</b>	<b>9063</b>	<b>8653</b>	<b>8352</b>	<b>7662</b>	<b>6893</b>	<b>6788</b>	<b>6808</b>	<b>7374</b>	<b>7730</b>	<b>7714</b>
<b>Net Resources</b>															
<sup>62</sup> <b>Hydro</b>	6535	6623	5529	5596	7449	7119	5793	6174	5867	4835	4363	6028	8373	7024	6344
<sup>63</sup> Regulated Hydro - Net	6171	6262	5187	5287	7190	6944	5677	6043	5634	4397	3917	5306	7662	6614	5992
<sup>64</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>65</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88

**Loads and Resources - Federal System**  
**Operating Year: 2022 Water Year: 1937**  
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>66 Non-Hydro Renewable</b>	34.4	51.7	48.0	38.6	55.3	42.1	22.5	37.3	42.9	76.7	64.5	61.3	60.6	59.2	48.5
67 Wind - Net	34.4	51.7	48.0	38.6	55.3	42.1	22.5	37.3	42.9	76.7	64.5	61.3	60.6	59.2	48.5
68 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>70 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
71 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
72 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>77 Contract Purchases</b>	156	168	163	160	172	171	160	165	166	160	158	160	175	164	165
78 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
79 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Non-Federal CER	126	138	137	133	137	137	132	135	138	137	137	132	137	132	135
81 Slice Transmission Loss Return	28.7	29.0	25.1	26.0	34.2	32.8	27.2	28.8	27.4	22.4	20.4	27.0	36.6	30.7	28.8
82 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>83 Reserves &amp; Losses</b>	-235	-238	-205	-207	-262	-252	-212	-223	-215	-185	-171	-222	-292	-251	-230
84 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Transmission Losses	-235	-238	-205	-207	-262	-252	-212	-223	-215	-185	-171	-222	-292	-251	-230
<b>87 Total Net Resources</b>	<b>7607</b>	<b>7720</b>	<b>6652</b>	<b>6703</b>	<b>8530</b>	<b>8196</b>	<b>6880</b>	<b>7269</b>	<b>6978</b>	<b>6003</b>	<b>5531</b>	<b>7143</b>	<b>9432</b>	<b>8112</b>	<b>7444</b>
<b>88 Total Surplus/Deficit</b>	<b>53</b>	<b>66</b>	<b>-457</b>	<b>-269</b>	<b>103</b>	<b>-867</b>	<b>-1,772</b>	<b>-1,082</b>	<b>-684</b>	<b>-890</b>	<b>-1,257</b>	<b>335</b>	<b>2,058</b>	<b>381</b>	<b>-270</b>

**Loads and Resources - Federal System**  
**Operating Year: 2023 Water Year: 1937**  
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>89</sup> <b>Load Following</b>	3562	3564	3177	2977	3454	3954	3911	3718	3268	3299	3274	3274	3489	3763	3486
<sup>90</sup> Preference Customers	3119	3122	2790	2745	3288	3762	3723	3530	3056	2925	2898	2824	3013	3224	3164
<sup>91</sup> Federal Agencies	134	134	124	124	151	178	177	171	147	131	131	122	123	136	143
<sup>92</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
<sup>93</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>94</sup> <b>Tier 1 Block</b>	381	381	628	522	851	852	932	876	832	417	414	148	20.6	334	564
<sup>95</sup> Tier 1 Block	381	381	628	522	851	852	932	876	832	417	414	148	20.6	334	564
<sup>96</sup> <b>Slice</b>	2821	2829	2573	2677	3318	3460	3160	3105	2910	2549	2442	2582	3070	2966	2928
<sup>97</sup> Slice Block	1308	1308	1255	1313	1525	1740	1731	1592	1473	1374	1374	1330	1302	1360	1442
<sup>98</sup> Slice Output from T1 System	1513	1522	1318	1364	1792	1720	1429	1513	1437	1175	1068	1251	1767	1607	1486
<sup>99</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>100</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>101</sup> <b>Contract Deliveries</b>	740	796	664	664	668	668	668	668	664	664	664	664	664	685	676
<sup>102</sup> Exports	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
<sup>103</sup> Intra-Regional Transfers (Out)	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
<sup>104</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>105</sup> <b>Total Firm Obligations</b>	<b>7515</b>	<b>7582</b>	<b>7054</b>	<b>6852</b>	<b>8302</b>	<b>8945</b>	<b>8682</b>	<b>8378</b>	<b>7686</b>	<b>6941</b>	<b>6806</b>	<b>6679</b>	<b>7255</b>	<b>7760</b>	<b>7666</b>
<b>Net Resources</b>															
<sup>106</sup> <b>Hydro</b>	6535	6623	5529	5588	7449	7119	5793	6174	5869	4836	4363	6035	8381	7014	6344
<sup>107</sup> Regulated Hydro - Net	6171	6262	5187	5279	7189	6944	5677	6043	5635	4397	3917	5313	7670	6605	5992
<sup>108</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>109</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88

**Loads and Resources - Federal System**

**Operating Year: 2023 Water Year: 1937**

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>110 Non-Hydro Renewable</b>	30.6	45.9	42.6	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	34.8
111 Wind - Net	30.6	45.9	42.6	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	34.8
112 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>114 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
115 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
116 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>121 Contract Purchases</b>	167	168	163	159	172	171	160	165	166	160	148	162	172	164	165
122 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
123 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124 Non-Federal CER	137	138	137	133	137	137	132	135	138	137	126	137	137	132	135
125 Slice Transmission Loss Return	28.8	28.9	25.1	26.0	34.1	32.7	27.2	28.8	27.3	22.3	20.3	23.8	33.6	30.6	28.3
126 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>127 Reserves &amp; Losses</b>	-235	-238	-205	-207	-262	-252	-212	-223	-214	-184	-170	-199	-271	-250	-226
128 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Transmission Losses	-235	-238	-205	-207	-262	-252	-212	-223	-214	-184	-170	-199	-271	-250	-226
<b>131 Total Net Resources</b>	<b>7613</b>	<b>7714</b>	<b>6646</b>	<b>6683</b>	<b>8511</b>	<b>8182</b>	<b>6873</b>	<b>7257</b>	<b>6964</b>	<b>5978</b>	<b>5499</b>	<b>6403</b>	<b>8736</b>	<b>8088</b>	<b>7312</b>
<b>132 Total Surplus/Deficit</b>	<b>98</b>	<b>132</b>	<b>-407</b>	<b>-170</b>	<b>209</b>	<b>-764</b>	<b>-1,809</b>	<b>-1,121</b>	<b>-722</b>	<b>-963</b>	<b>-1,307</b>	<b>-277</b>	<b>1,481</b>	<b>327</b>	<b>-354</b>

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>133</sup> <b>Load Following</b>	3576	3578	3190	2990	3468	3969	3926	3683	3282	3300	3300	3285	3501	3775	3496
<sup>134</sup> Preference Customers	3133	3137	2804	2757	3301	3777	3738	3498	3070	2925	2925	2835	3025	3237	3175
<sup>135</sup> Federal Agencies	132	133	123	124	151	178	177	168	147	131	131	122	123	136	143
<sup>136</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>137</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>138</sup> <b>Tier 1 Block</b>	378	378	621	518	831	834	907	822	811	415	415	148	20.5	329	552
<sup>139</sup> Tier 1 Block	378	378	621	518	831	834	907	822	811	415	415	148	20.5	329	552
<sup>140</sup> <b>Slice</b>	2843	2851	2593	2652	3287	3423	3126	3022	2879	2521	2417	2718	3194	2941	2929
<sup>141</sup> Slice Block	1331	1331	1277	1286	1494	1705	1696	1506	1443	1346	1346	1303	1276	1333	1417
<sup>142</sup> Slice Output from T1 System	1511	1519	1316	1366	1793	1719	1430	1516	1436	1175	1070	1414	1918	1608	1513
<sup>143</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>144</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>145</sup> <b>Contract Deliveries</b>	740	796	664	664	668	668	668	652	664	664	664	664	664	685	675
<sup>146</sup> Exports	531	587	454	454	454	454	454	439	454	454	454	454	454	476	464
<sup>147</sup> Intra-Regional Transfers (Out)	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
<sup>148</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>149</sup> <b>Total Firm Obligations</b>	<b>7548</b>	<b>7614</b>	<b>7080</b>	<b>6836</b>	<b>8265</b>	<b>8906</b>	<b>8639</b>	<b>8191</b>	<b>7648</b>	<b>6912</b>	<b>6807</b>	<b>6827</b>	<b>7391</b>	<b>7742</b>	<b>7664</b>
<b>Net Resources</b>															
<sup>150</sup> <b>Hydro</b>	6535	6623	5529	5596	7449	7119	5793	6174	5869	4836	4363	6028	8373	7017	6343
<sup>151</sup> Regulated Hydro - Net	6171	6262	5187	5287	7190	6944	5677	6043	5635	4398	3917	5306	7662	6607	5992
<sup>152</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>153</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.04	3.10	3.09	3.09	2.83	2.72	2.63	2.88

**Loads and Resources - Federal System**  
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>154 Non-Hydro Renewable</b>	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
155 Wind - Net	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
156 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>158 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
159 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
160 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>165 Contract Purchases</b>	167	168	163	159	172	166	165	166	161	160	158	165	169	169	165
166 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
167 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168 Non-Federal CER	137	138	137	133	137	132	137	136	133	137	137	137	132	137	135
169 Slice Transmission Loss Return	28.7	28.9	25.0	26.0	34.1	32.7	27.2	28.8	27.3	22.3	20.4	26.9	36.5	30.6	28.8
170 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>171 Reserves &amp; Losses</b>	-235	-238	-205	-207	-262	-252	-212	-223	-214	-184	-170	-222	-291	-250	-229
172 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174 Transmission Losses	-235	-238	-205	-207	-262	-252	-212	-223	-214	-184	-170	-222	-291	-250	-229
<b>175 Total Net Resources</b>	<b>7606</b>	<b>7703</b>	<b>6635</b>	<b>6690</b>	<b>8512</b>	<b>8177</b>	<b>6878</b>	<b>7257</b>	<b>6959</b>	<b>5978</b>	<b>5509</b>	<b>7132</b>	<b>9411</b>	<b>8095</b>	<b>7428</b>
<b>176 Total Surplus/Deficit</b>	<b>58</b>	<b>88</b>	<b>-445</b>	<b>-146</b>	<b>247</b>	<b>-729</b>	<b>-1,761</b>	<b>-934</b>	<b>-688</b>	<b>-933</b>	<b>-1,298</b>	<b>305</b>	<b>2,020</b>	<b>352</b>	<b>-236</b>

**Loads and Resources - Federal System**  
**Operating Year: 2025 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>177</sup> <b>Load Following</b>	3588	3590	3201	3006	3485	3988	3945	3738	3279	3316	3316	3298	3515	3790	3512
<sup>178</sup> Preference Customers	3145	3149	2814	2772	3318	3794	3756	3549	3066	2940	2940	2848	3038	3250	3190
<sup>179</sup> Federal Agencies	132	133	123	125	152	179	179	172	148	132	132	124	124	137	144
<sup>180</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>181</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>182</sup> <b>Tier 1 Block</b>	373	373	611	517	827	830	902	847	807	414	414	148	20.5	328	550
<sup>183</sup> Tier 1 Block	373	373	611	517	827	830	902	847	807	414	414	148	20.5	328	550
<sup>184</sup> <b>Slice</b>	2816	2824	2566	2676	3313	3453	3155	3100	2904	2541	2440	2572	3062	2957	2922
<sup>185</sup> Slice Block	1305	1305	1251	1308	1520	1734	1725	1587	1468	1370	1370	1326	1298	1355	1437
<sup>186</sup> Slice Output from T1 System	1511	1519	1314	1367	1793	1719	1430	1513	1436	1171	1070	1246	1764	1602	1485
<sup>187</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>188</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>189</sup> <b>Contract Deliveries</b>	740	796	664	664	668	668	668	668	664	664	664	664	664	685	676
<sup>190</sup> Exports	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
<sup>191</sup> Intra-Regional Transfers (Out)	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
<sup>192</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>193</sup> <b>Total Firm Obligations</b>	<b>7529</b>	<b>7595</b>	<b>7053</b>	<b>6874</b>	<b>8304</b>	<b>8951</b>	<b>8682</b>	<b>8364</b>	<b>7666</b>	<b>6946</b>	<b>6845</b>	<b>6694</b>	<b>7273</b>	<b>7772</b>	<b>7672</b>
<b>Net Resources</b>															
<sup>194</sup> <b>Hydro</b>	6535	6623	5529	5596	7449	7119	5793	6174	5869	4820	4363	6011	8373	6988	6339
<sup>195</sup> Regulated Hydro - Net	6171	6262	5187	5287	7190	6944	5677	6043	5635	4381	3917	5289	7662	6578	5987
<sup>196</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>197</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88



**Loads and Resources - Federal System**  
**Operating Year: 2025 Water Year: 1937**  
**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>198 Non-Hydro Renewable</b>	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
199 Wind - Net	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
200 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
201 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>202 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
203 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
204 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
205 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
206 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>209 Contract Purchases</b>	167	168	157	165	172	166	165	165	161	160	158	162	166	168	164
210 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
211 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
212 Non-Federal CER	137	138	131	138	137	132	137	135	133	137	137	137	132	137	135
213 Slice Transmission Loss Return	28.7	28.9	25.0	26.0	34.1	32.7	27.2	28.8	27.3	22.3	20.4	23.7	33.6	30.5	28.2
214 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>215 Reserves &amp; Losses</b>	-235	-238	-204	-207	-262	-252	-212	-223	-214	-184	-170	-199	-270	-250	-225
216 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Transmission Losses	-235	-238	-204	-207	-262	-252	-212	-223	-214	-184	-170	-199	-270	-250	-225
<b>219 Total Net Resources</b>	<b>7606</b>	<b>7703</b>	<b>6630</b>	<b>6695</b>	<b>8512</b>	<b>8177</b>	<b>6878</b>	<b>7257</b>	<b>6959</b>	<b>5962</b>	<b>5509</b>	<b>6379</b>	<b>8722</b>	<b>8066</b>	<b>7305</b>
<b>220 Total Surplus/Deficit</b>	<b>77</b>	<b>108</b>	<b>-424</b>	<b>-179</b>	<b>208</b>	<b>-774</b>	<b>-1,804</b>	<b>-1,107</b>	<b>-706</b>	<b>-984</b>	<b>-1,336</b>	<b>-315</b>	<b>1,449</b>	<b>294</b>	<b>-367</b>

**Loads and Resources - Federal System**  
**Operating Year: 2026 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
221 <b>Load Following</b>	3614	3593	3215	3020	3501	4005	3962	3770	3313	3330	3330	3310	3527	3802	3529
222 Preference Customers	3175	3147	2827	2786	3334	3811	3772	3581	3100	2954	2954	2859	3049	3262	3207
223 Federal Agencies	134	133	124	125	152	180	179	172	149	132	132	124	125	137	144
224 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
225 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
226 <b>Tier 1 Block</b>	372	370	608	515	825	829	900	845	806	413	413	147	20.4	327	549
227 Tier 1 Block	372	370	608	515	825	829	900	845	806	413	413	147	20.4	327	549
228 <b>Slice</b>	2840	2843	2589	2648	3278	3416	3118	3065	2872	2515	2410	2711	3189	2935	2926
229 Slice Block	1327	1327	1273	1280	1487	1697	1688	1553	1436	1340	1340	1297	1270	1326	1414
230 Slice Output from T1 System	1512	1516	1316	1367	1791	1720	1430	1513	1436	1175	1070	1413	1920	1608	1512
231 <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
232 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
233 <b>Contract Deliveries</b>	740	796	664	664	667	668	468	468	464	464	464	464	464	485	560
234 Exports	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
235 Intra-Regional Transfers (Out)	209	209	209	209	213	213	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	94.6
236 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
237 <b>Total Firm Obligations</b>	<b>7578</b>	<b>7614</b>	<b>7087</b>	<b>6859</b>	<b>8284</b>	<b>8930</b>	<b>8460</b>	<b>8160</b>	<b>7466</b>	<b>6733</b>	<b>6629</b>	<b>6644</b>	<b>7212</b>	<b>7561</b>	<b>7577</b>
<b>Net Resources</b>															
238 <b>Hydro</b>	6535	6623	5529	5596	7449	7119	5793	6174	5869	4836	4363	6028	8373	7017	6344
239 Regulated Hydro - Net	6171	6262	5187	5287	7190	6944	5677	6043	5635	4398	3917	5306	7662	6607	5992
240 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
241 Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88

**Loads and Resources - Federal System**  
**Operating Year: 2026 Water Year: 1937**  
**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>242 Non-Hydro Renewable</b>	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
243 Wind - Net	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
244 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
245 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>246 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
247 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
248 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
249 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
251 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
252 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>253 Contract Purchases</b>	167	158	163	165	166	171	165	165	161	160	158	160	174	169	165
254 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
255 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
256 Non-Federal CER	137	128	137	138	131	137	137	135	133	137	137	132	137	137	135
257 Slice Transmission Loss Return	28.8	28.8	25.0	26.0	34.1	32.7	27.2	28.8	27.3	22.3	20.4	26.9	36.5	30.6	28.8
258 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>259 Reserves &amp; Losses</b>	-235	-238	-205	-207	-262	-252	-212	-223	-214	-184	-170	-221	-292	-250	-229
260 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
261 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
262 Transmission Losses	-235	-238	-205	-207	-262	-252	-212	-223	-214	-184	-170	-221	-292	-250	-229
<b>263 Total Net Resources</b>	<b>7606</b>	<b>7693</b>	<b>6635</b>	<b>6695</b>	<b>8506</b>	<b>8182</b>	<b>6878</b>	<b>7257</b>	<b>6959</b>	<b>5978</b>	<b>5509</b>	<b>7127</b>	<b>9416</b>	<b>8095</b>	<b>7429</b>
<b>264 Total Surplus/Deficit</b>	<b>28</b>	<b>79</b>	<b>-452</b>	<b>-164</b>	<b>222</b>	<b>-748</b>	<b>-1,582</b>	<b>-903</b>	<b>-507</b>	<b>-755</b>	<b>-1,120</b>	<b>483</b>	<b>2,204</b>	<b>534</b>	<b>-148</b>

**Loads and Resources - Federal System**  
**Operating Year: 2027 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>265</sup> <b>Load Following</b>	3626	3605	3226	3039	3522	4027	3982	3791	3332	3349	3349	3327	3544	3820	3547
<sup>266</sup> Preference Customers	3187	3159	2838	2805	3354	3832	3792	3601	3118	2972	2972	2876	3066	3280	3224
<sup>267</sup> Federal Agencies	134	133	124	126	153	180	179	173	149	133	133	124	125	138	145
<sup>268</sup> USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>269</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>270</sup> <b>Tier 1 Block</b>	372	369	607	516	825	829	900	846	806	413	413	147	20.4	327	549
<sup>271</sup> Tier 1 Block	372	369	607	516	825	829	900	846	806	413	413	147	20.4	327	549
<sup>272</sup> <b>Slice</b>	2811	2815	2561	2673	3308	3450	3149	3093	2898	2531	2431	2562	3055	2949	2915
<sup>273</sup> Slice Block	1299	1299	1246	1306	1517	1731	1722	1584	1465	1367	1367	1323	1295	1353	1434
<sup>274</sup> Slice Output from T1 System	1512	1516	1316	1367	1791	1720	1427	1509	1433	1164	1064	1239	1759	1596	1482
<sup>275</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>276</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>277</sup> <b>Contract Deliveries</b>	540	596	464	464	467	468	468	468	464	464	464	464	464	485	476
<sup>278</sup> Exports	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
<sup>279</sup> Intra-Regional Transfers (Out)	9.44	9.44	9.44	9.44	13.2	13.4	13.2	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
<sup>280</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>281</sup> <b>Total Firm Obligations</b>	<b>7361</b>	<b>7397</b>	<b>6870</b>	<b>6703</b>	<b>8135</b>	<b>8785</b>	<b>8511</b>	<b>8209</b>	<b>7511</b>	<b>6769</b>	<b>6669</b>	<b>6512</b>	<b>7095</b>	<b>7593</b>	<b>7499</b>
<b>Net Resources</b>															
<sup>282</sup> <b>Hydro</b>	6535	6623	5529	5596	7449	7119	5793	6174	5869	4820	4363	6011	8373	6988	6339
<sup>283</sup> Regulated Hydro - Net	6171	6262	5187	5287	7190	6944	5677	6043	5635	4381	3917	5289	7662	6578	5987
<sup>284</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>285</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88

**Loads and Resources - Federal System**  
**Operating Year: 2027 Water Year: 1937**  
**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>286 Non-Hydro Renewable</b>	22.6	33.8	31.5	25.3	36.2	27.6	5.28	8.73	10.0	17.9	15.1	16.2	16.0	15.6	19.8
287 Wind - Net	22.6	33.8	31.5	25.3	36.2	27.6	5.28	8.73	10.0	17.9	15.1	16.2	16.0	15.6	19.8
288 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
289 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>290 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
291 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
292 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
293 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
294 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
295 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
296 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>297 Contract Purchases</b>	167	158	163	165	166	171	160	165	166	160	158	157	171	168	164
298 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
299 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300 Non-Federal CER	137	128	137	138	131	137	132	135	138	137	137	132	137	137	135
301 Slice Transmission Loss Return	28.8	28.8	25.0	26.0	34.1	32.7	27.1	28.7	27.3	22.1	20.2	23.6	33.5	30.3	28.2
302 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>303 Reserves &amp; Losses</b>	-235	-238	-205	-207	-262	-252	-211	-223	-214	-183	-169	-198	-270	-249	-225
304 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
305 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
306 Transmission Losses	-235	-238	-205	-207	-262	-252	-211	-223	-214	-183	-169	-198	-270	-249	-225
<b>307 Total Net Resources</b>	<b>7606</b>	<b>7693</b>	<b>6635</b>	<b>6695</b>	<b>8506</b>	<b>8182</b>	<b>6864</b>	<b>7241</b>	<b>6947</b>	<b>5931</b>	<b>5483</b>	<b>6346</b>	<b>8699</b>	<b>8039</b>	<b>7292</b>
<b>308 Total Surplus/Deficit</b>	<b>245</b>	<b>296</b>	<b>-234</b>	<b>-8</b>	<b>371</b>	<b>-604</b>	<b>-1,648</b>	<b>-968</b>	<b>-564</b>	<b>-838</b>	<b>-1,186</b>	<b>-166</b>	<b>1,605</b>	<b>446</b>	<b>-207</b>

**Loads and Resources - Federal System**  
**Operating Year: 2028 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>309</sup> <b>Load Following</b>	3618	3647	3242	3054	3538	4044	4002	3757	3350	3379	3353	3341	3558	3835	3560
<sup>310</sup> Preference Customers	3169	3208	2854	2819	3370	3849	3812	3571	3136	3003	2975	2889	3080	3294	3238
<sup>311</sup> Federal Agencies	134	135	125	126	153	180	180	170	149	133	132	124	125	138	145
<sup>312</sup> USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
<sup>313</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>314</sup> <b>Tier 1 Block</b>	369	372	607	516	826	830	902	818	807	415	412	148	20.5	327	548
<sup>315</sup> Tier 1 Block	369	372	607	516	826	830	902	818	807	415	412	148	20.5	327	548
<sup>316</sup> <b>Slice</b>	2838	2833	2582	2645	3276	3415	3118	3011	2871	2506	2408	2707	3185	2930	2919
<sup>317</sup> Slice Block	1325	1325	1271	1282	1489	1699	1691	1501	1438	1342	1342	1299	1272	1328	1412
<sup>318</sup> Slice Output from T1 System	1513	1508	1311	1363	1788	1716	1427	1509	1433	1164	1066	1408	1913	1601	1508
<sup>319</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>320</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>321</sup> <b>Contract Deliveries</b>	504	630	464	464	468	468	468	468	464	482	446	464	464	485	476
<sup>322</sup> Exports	495	620	454	454	454	454	454	454	454	472	436	454	454	476	465
<sup>323</sup> Intra-Regional Transfers (Out)	9.44	9.44	9.44	9.44	13.3	13.4	13.2	13.5	9.44	9.44	9.44	9.44	9.44	9.44	10.7
<sup>324</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>325</sup> <b>Total Firm Obligations</b>	<b>7341</b>	<b>7494</b>	<b>6907</b>	<b>6690</b>	<b>8120</b>	<b>8768</b>	<b>8501</b>	<b>8065</b>	<b>7503</b>	<b>6794</b>	<b>6630</b>	<b>6671</b>	<b>7239</b>	<b>7589</b>	<b>7515</b>
<b>Net Resources</b>															
<sup>326</sup> <b>Hydro</b>	6535	6623	5529	5596	7449	7119	5793	6174	5869	4836	4363	6028	8373	7017	6343
<sup>327</sup> Regulated Hydro - Net	6171	6262	5187	5287	7190	6944	5677	6043	5635	4398	3917	5306	7662	6607	5992
<sup>328</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>329</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.04	3.10	3.09	3.09	2.83	2.72	2.63	2.88

**Loads and Resources - Federal System**  
**Operating Year: 2028    Water Year: 1937**  
**2019 White Book    Report Date: 4/7/2020    *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>330 Non-Hydro Renewable</b>	8.06	12.1	11.2	1.45	0	0	0	0	0	0	0	0	0	0	1.90
331 Wind - Net	8.06	12.1	11.2	1.45	0	0	0	0	0	0	0	0	0	0	1.90
332 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
333 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>334 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
335 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
336 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
337 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
338 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
339 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
340 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>341 Contract Purchases</b>	156	168	163	159	172	171	160	166	166	160	148	165	174	163	165
342 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
343 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
344 Non-Federal CER	126	138	137	133	137	137	132	136	138	137	126	137	137	132	135
345 Slice Transmission Loss Return	28.8	28.7	24.9	25.9	34.0	32.6	27.1	28.7	27.3	22.1	20.3	26.8	36.4	30.4	28.7
346 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>347 Reserves &amp; Losses</b>	-234	-237	-204	-206	-261	-251	-211	-222	-213	-183	-168	-220	-290	-249	-228
348 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
349 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350 Transmission Losses	-234	-237	-204	-206	-261	-251	-211	-222	-213	-183	-168	-220	-290	-249	-228
<b>351 Total Net Resources</b>	<b>7581</b>	<b>7681</b>	<b>6616</b>	<b>6667</b>	<b>8477</b>	<b>8155</b>	<b>6858</b>	<b>7234</b>	<b>6937</b>	<b>5929</b>	<b>5458</b>	<b>7088</b>	<b>9373</b>	<b>8047</b>	<b>7398</b>
<b>352 Total Surplus/Deficit</b>	<b>241</b>	<b>187</b>	<b>-292</b>	<b>-23</b>	<b>356</b>	<b>-613</b>	<b>-1,642</b>	<b>-832</b>	<b>-566</b>	<b>-864</b>	<b>-1,172</b>	<b>417</b>	<b>2,133</b>	<b>459</b>	<b>-118</b>

**Loads and Resources - Federal System**  
**Operating Year: 2029 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>353</sup> <b>Load Following</b>	3645	3647	3254	3072	3558	4065	4020	3813	3345	3367	3393	3353	3572	3848	3577
<sup>354</sup> Preference Customers	3201	3204	2866	2838	3389	3870	3830	3623	3130	2989	3017	2901	3094	3307	3253
<sup>355</sup> Federal Agencies	134	135	125	126	153	181	180	173	149	133	133	124	125	138	145
<sup>356</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	245	243	327	353	403	178
<sup>357</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>358</sup> <b>Tier 1 Block</b>	371	371	608	514	823	827	898	843	804	410	413	147	20.4	326	548
<sup>359</sup> Tier 1 Block	371	371	608	514	823	827	898	843	804	410	413	147	20.4	326	548
<sup>360</sup> <b>Slice</b>	2813	2812	2559	2662	3296	3436	3140	3085	2890	2525	2420	2555	3048	2941	2907
<sup>361</sup> Slice Block	1301	1301	1247	1299	1508	1721	1712	1575	1457	1360	1360	1315	1288	1346	1427
<sup>362</sup> Slice Output from T1 System	1512	1511	1311	1363	1788	1715	1428	1509	1433	1166	1060	1240	1759	1595	1480
<sup>363</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>364</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>365</sup> <b>Contract Deliveries</b>	523	612	464	464	468	468	468	468	464	446	482	464	464	485	476
<sup>366</sup> Exports	513	603	454	454	454	454	454	454	454	436	472	454	454	476	465
<sup>367</sup> Intra-Regional Transfers (Out)	9.44	9.44	9.44	9.44	13.3	13.2	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
<sup>368</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>369</sup> <b>Total Firm Obligations</b>	<b>7364</b>	<b>7455</b>	<b>6897</b>	<b>6724</b>	<b>8156</b>	<b>8807</b>	<b>8538</b>	<b>8220</b>	<b>7514</b>	<b>6760</b>	<b>6721</b>	<b>6531</b>	<b>7115</b>	<b>7612</b>	<b>7520</b>
<b>Net Resources</b>															
<sup>370</sup> <b>Hydro</b>	6535	6623	5529	5596	7449	7119	5793	6174	5869	4820	4363	6011	8373	6988	6339
<sup>371</sup> Regulated Hydro - Net	6171	6262	5187	5287	7190	6944	5677	6043	5635	4381	3917	5289	7662	6578	5987
<sup>372</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>373</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88



**Loads and Resources - Federal System**  
**Operating Year: 2029 Water Year: 1937**  
**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>374 Non-Hydro Renewable</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
375 Wind - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
376 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>378 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
379 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
380 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
381 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
382 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
383 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
384 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>385 Contract Purchases</b>	167	168	163	159	172	166	165	165	166	150	158	162	171	163	164
386 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
387 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
388 Non-Federal CER	137	138	137	133	137	132	137	135	138	126	137	137	137	132	135
389 Slice Transmission Loss Return	28.8	28.7	24.9	25.9	34.0	32.6	27.2	28.7	27.3	22.2	20.2	23.6	33.5	30.3	28.1
390 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>391 Reserves &amp; Losses</b>	-235	-237	-204	-206	-261	-251	-211	-222	-213	-182	-169	-197	-269	-248	-224
392 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
393 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
394 Transmission Losses	-235	-237	-204	-206	-261	-251	-211	-222	-213	-182	-169	-197	-269	-248	-224
<b>395 Total Net Resources</b>	<b>7584</b>	<b>7670</b>	<b>6605</b>	<b>6666</b>	<b>8477</b>	<b>8150</b>	<b>6863</b>	<b>7233</b>	<b>6937</b>	<b>5903</b>	<b>5468</b>	<b>6335</b>	<b>8684</b>	<b>8019</b>	<b>7273</b>
<b>396 Total Surplus/Deficit</b>	<b>220</b>	<b>215</b>	<b>-292</b>	<b>-59</b>	<b>320</b>	<b>-657</b>	<b>-1,675</b>	<b>-988</b>	<b>-577</b>	<b>-857</b>	<b>-1,253</b>	<b>-196</b>	<b>1,568</b>	<b>407</b>	<b>-247</b>

**Loads and Resources - Federal System**  
**Operating Year: 2030 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Obligations</b>															
<sup>397</sup> <b>Load Following</b>	3658	3661	3266	3085	3572	4080	4036	3845	3378	3394	3394	3364	3583	3860	3593
<sup>398</sup> Preference Customers	3214	3218	2878	2850	3404	3885	3845	3655	3163	3016	3016	2912	3105	3319	3269
<sup>399</sup> Federal Agencies	135	135	125	126	153	181	180	174	150	133	133	125	125	138	145
<sup>400</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>401</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>402</sup> <b>Tier 1 Block</b>	370	370	606	515	823	827	899	844	804	412	412	147	20.4	326	548
<sup>403</sup> Tier 1 Block	370	370	606	515	823	827	899	844	804	412	412	147	20.4	326	548
<sup>404</sup> <b>Slice</b>	2830	2829	2574	2640	3269	3405	3110	3057	2863	2503	2400	2701	3178	2924	2916
<sup>405</sup> Slice Block	1318	1318	1264	1276	1482	1690	1682	1547	1431	1335	1335	1293	1266	1322	1409
<sup>406</sup> Slice Output from T1 System	1512	1511	1310	1364	1788	1715	1428	1509	1432	1168	1064	1408	1912	1602	1508
<sup>407</sup> <b>Direct Service Industries</b>	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>408</sup> Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<sup>409</sup> <b>Contract Deliveries</b>	523	612	464	464	468	468	468	468	464	464	464	464	464	485	476
<sup>410</sup> Exports	513	603	454	454	454	454	454	454	454	454	454	454	454	476	465
<sup>411</sup> Intra-Regional Transfers (Out)	9.44	9.44	9.44	9.44	13.3	13.2	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
<sup>412</sup> Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>413</sup> <b>Total Firm Obligations</b>	<b>7393</b>	<b>7484</b>	<b>6922</b>	<b>6715</b>	<b>8144</b>	<b>8792</b>	<b>8524</b>	<b>8225</b>	<b>7520</b>	<b>6784</b>	<b>6681</b>	<b>6687</b>	<b>7257</b>	<b>7608</b>	<b>7545</b>
<b>Net Resources</b>															
<sup>414</sup> <b>Hydro</b>	6535	6623	5529	5596	7449	7119	5793	6174	5869	4836	4363	6028	8373	7017	6344
<sup>415</sup> Regulated Hydro - Net	6171	6262	5187	5287	7190	6944	5677	6043	5635	4398	3917	5306	7662	6607	5992
<sup>416</sup> Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
<sup>417</sup> Small Hydro - Net	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88

**Loads and Resources - Federal System**  
**Operating Year: 2030 Water Year: 1937**  
**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>418 Non-Hydro Renewable</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
419 Wind - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
421 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>422 Thermal</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
423 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
424 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
425 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
427 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
428 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>429 Contract Purchases</b>	167	168	157	165	172	166	165	165	161	160	158	165	169	168	165
430 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
431 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
432 Non-Federal CER	137	138	131	138	137	132	137	135	133	137	137	137	132	137	135
433 Slice Transmission Loss Return	28.8	28.7	24.9	25.9	34.0	32.6	27.2	28.7	27.2	22.2	20.2	26.8	36.4	30.5	28.7
434 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>435 Reserves &amp; Losses</b>	-235	-237	-203	-206	-261	-251	-211	-222	-213	-183	-169	-220	-290	-249	-228
436 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
437 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
438 Transmission Losses	-235	-237	-203	-206	-261	-251	-211	-222	-213	-183	-169	-220	-290	-249	-228
<b>439 Total Net Resources</b>	<b>7584</b>	<b>7670</b>	<b>6599</b>	<b>6671</b>	<b>8477</b>	<b>8150</b>	<b>6863</b>	<b>7233</b>	<b>6932</b>	<b>5929</b>	<b>5468</b>	<b>7088</b>	<b>9368</b>	<b>8052</b>	<b>7397</b>
<b>440 Total Surplus/Deficit</b>	<b>191</b>	<b>186</b>	<b>-323</b>	<b>-44</b>	<b>332</b>	<b>-642</b>	<b>-1,661</b>	<b>-992</b>	<b>-588</b>	<b>-855</b>	<b>-1,213</b>	<b>401</b>	<b>2,110</b>	<b>444</b>	<b>-148</b>

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***Exhibit 24***  
***Regional Report Surplus Deficit***

***Monthly Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2021 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
<b>1 Retail Loads</b>	22826	22669	20811	20817	23633	25957	25687	24738	22434	21607	21607	21135	21776	23457	22895
2 Federal Agency	129	128	119	125	148	175	176	169	146	135	135	130	130	143	144
3 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
4 Cooperative	2372	2355	2091	1995	2286	2600	2554	2452	2185	2139	2139	2178	2372	2521	2311
5 Municipality	2379	2358	2282	2459	2866	3082	3133	3044	2697	2523	2523	2339	2310	2362	2620
6 Public Utility District	4225	4199	3932	4124	4756	5343	5332	5058	4549	4257	4257	4025	4115	4335	4501
7 Investor-Owned Utility	13012	12913	11720	11602	13157	14337	14078	13595	12388	11904	11904	11733	12093	13290	12737
8 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
9 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
10 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>11 Exports</b>	1340	1587	1397	1114	1298	1153	910	1072	1126	1501	1375	1419	1470	1587	1288
12 Canada	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
13 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14 Inland Southwest	51.5	51.5	51.5	51.5	51.5	51.5	0	0	0	0	0	0	0	0	21.6
15 Pacific Southwest	756	948	890	607	791	647	404	567	620	996	869	913	965	1060	771
16 Other	0	0	0	0	0	0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	29.0
<b>17 Total Regional Loads</b>	<b>24165</b>	<b>24256</b>	<b>22208</b>	<b>21931</b>	<b>24930</b>	<b>27110</b>	<b>26597</b>	<b>25810</b>	<b>23560</b>	<b>23109</b>	<b>22982</b>	<b>22554</b>	<b>23246</b>	<b>25044</b>	<b>24183</b>
<b>Regional Resources</b>															
<b>18 Hydro</b>	11549	11253	10221	10682	12146	12178	11284	10433	10323	10046	9564	12166	16194	13114	11667
19 Regulated Hydro - Net	10259	9970	9017	9609	11198	11182	10491	9576	9275	8524	8025	10183	14164	11565	10391
20 Independent Hydro - Net	1000	995	976	907	817	867	667	723	883	1238	1254	1577	1605	1141	1035
21 Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	242
<b>22 Non-Hydro Renewable</b>	1685	2272	2109	1731	2287	1809	1123	1667	1863	3042	2643	2856	2837	2836	2163
23 Wind - Net	1291	1879	1730	1386	1970	1511	844	1362	1528	2680	2280	2463	2460	2399	1811
24 Solar - Net	216	216	201	166	139	119	111	126	156	185	185	213	223	237	175
25 Other - Net	178	178	178	179	179	179	168	179	179	177	177	179	154	200	177

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2021 Water Year: 1937**

**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>26 Thermal</b>	14708	14715	14788	14824	15064	14539	14004	13954	12876	13167	11295	10070	11355	13593	13499
<b>27 Nuclear - Net</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
<b>28 Coal - Net</b>	5051	5052	5055	5056	5054	4431	3943	3942	3678	3823	3626	3640	3956	3939	4290
<b>29 Natural Gas - Net</b>	6092	6099	6163	6227	6360	6431	6424	6381	6318	6000	4905	3948	4609	6094	5874
<b>30 Petroleum - Net</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>31 Biofuel - Net</b>	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
<b>32 Cogeneration - Net</b>	2425	2425	2429	2398	2507	2536	2497	2491	1736	2203	1622	2095	2356	2418	2315
<b>33 Imports</b>	627	626	565	587	775	875	712	711	614	511	511	557	701	688	660
<b>34 Canada</b>	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
<b>35 East of Continental Divide</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>36 Inland Southwest</b>	542	542	485	451	442	477	449	463	437	417	417	465	598	661	491
<b>37 Pacific Southwest</b>	64.4	63.5	63.9	115	294	349	201	178	115	64.4	64.4	63.4	64.4	0	131
<b>38 Other</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>39 Reserves &amp; Losses</b>	-849	-857	-822	-826	-899	-873	-806	-795	-763	-795	-713	-762	-923	-898	-831
<b>40 Operating Reserves</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>41 Balancing Reserves</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>42 Transmission Losses</b>	-849	-857	-822	-826	-899	-873	-806	-795	-763	-795	-713	-762	-923	-898	-831
<b>43 Total Regional Resources</b>	<b>27721</b>	<b>28009</b>	<b>26860</b>	<b>26998</b>	<b>29373</b>	<b>28528</b>	<b>26316</b>	<b>25970</b>	<b>24913</b>	<b>25972</b>	<b>23299</b>	<b>24887</b>	<b>30164</b>	<b>29333</b>	<b>27158</b>
<b>44 Total Surplus/Deficit</b>	<b>3555</b>	<b>3753</b>	<b>4653</b>	<b>5067</b>	<b>4443</b>	<b>1418</b>	<b>-281</b>	<b>160</b>	<b>1353</b>	<b>2863</b>	<b>317</b>	<b>2334</b>	<b>6918</b>	<b>4289</b>	<b>2974</b>

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2022 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
<sup>45</sup> <b>Retail Loads</b>	22852	23070	21021	21030	23860	26182	26163	25236	22911	22044	22044	21575	22207	23897	23252
<sup>46</sup> Federal Agency	139	140	130	136	159	186	186	180	156	143	143	135	136	149	153
<sup>47</sup> USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>48</sup> Cooperative	2423	2447	2161	2060	2362	2668	2621	2533	2254	2212	2212	2259	2446	2602	2384
<sup>49</sup> Municipality	2357	2387	2280	2461	2867	3083	3135	3046	2700	2526	2526	2343	2314	2366	2622
<sup>50</sup> Public Utility District	4275	4310	4012	4208	4844	5438	5675	5404	4889	4554	4554	4320	4408	4631	4720
<sup>51</sup> Investor-Owned Utility	12940	13077	11771	11651	13208	14388	14131	13654	12442	11959	11959	11787	12147	13343	12790
<sup>52</sup> Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
<sup>53</sup> Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	402	401	401	401	401
<sup>54</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>55</sup> <b>Exports</b>	1266	1513	1324	1044	1222	1076	705	869	931	1306	1179	1229	1273	1385	1142
<sup>56</sup> Canada	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
<sup>57</sup> East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>58</sup> Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>59</sup> Pacific Southwest	684	876	819	539	716	571	250	414	476	851	724	774	818	908	655
<sup>60</sup> Other	50.0	50.0	50.0	50.0	50.0	50.0	0	0	0	0	0	0	0	0	21.0
<sup>61</sup> <b>Total Regional Loads</b>	<b>24118</b>	<b>24583</b>	<b>22345</b>	<b>22074</b>	<b>25082</b>	<b>27258</b>	<b>26869</b>	<b>26105</b>	<b>23842</b>	<b>23350</b>	<b>23223</b>	<b>22804</b>	<b>23480</b>	<b>25282</b>	<b>24394</b>
<b>Regional Resources</b>															
<sup>62</sup> <b>Hydro</b>	11121	11009	9493	10649	12106	12133	11284	10433	10325	10043	9564	12159	16131	13113	11564
<sup>63</sup> Regulated Hydro - Net	9831	9726	8299	9609	11198	11182	10491	9576	9277	8521	8025	10176	14101	11565	10298
<sup>64</sup> Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
<sup>65</sup> Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	242
<sup>66</sup> <b>Hon-Hydro Renewable</b>	1691	2281	2116	1740	2298	1817	1127	1667	1863	3042	2643	2845	2837	2836	2166
<sup>67</sup> Wind - Net	1295	1885	1736	1393	1981	1519	849	1362	1528	2680	2280	2463	2460	2399	1814
<sup>68</sup> Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
<sup>69</sup> Other - Net	178	178	178	179	179	179	168	178	179	177	177	168	154	200	176



**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2022 Water Year: 1937**

**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>70 Thermal</b>	13592	13599	13635	13715	13947	14049	13889	13838	13060	11349	10090	10553	11885	13478	13029
<b>71 Nuclear - Net</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
<b>72 Coal - Net</b>	3936	3936	3940	3941	3938	3942	3828	3827	3745	2413	2217	3359	3780	3824	3699
<b>73 Natural Gas - Net</b>	6092	6099	6163	6227	6360	6431	6424	6381	6318	5975	4931	3934	4609	6094	5872
<b>74 Petroleum - Net</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>75 Biofuel - Net</b>	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
<b>76 Cogeneration - Net</b>	2424	2424	2391	2404	2507	2535	2496	2490	1855	1819	1801	2116	2355	2417	2316
<b>77 Imports</b>	569	569	504	476	664	764	601	600	502	449	449	497	643	694	580
<b>78 Canada</b>	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
<b>79 East of Continental Divide</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>80 Inland Southwest</b>	548	548	488	454	445	480	451	466	440	419	419	468	605	667	494
<b>81 Pacific Southwest</b>	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>82 Other</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>83 Reserves &amp; Losses</b>	-801	-815	-765	-789	-862	-854	-799	-788	-765	-739	-676	-774	-935	-895	-812
<b>84 Operating Reserves</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>85 Balancing Reserves</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>86 Transmission Losses</b>	-801	-815	-765	-789	-862	-854	-799	-788	-765	-739	-676	-774	-935	-895	-812
<b>87 Total Regional Resources</b>	<b>26170</b>	<b>26642</b>	<b>24984</b>	<b>25790</b>	<b>28154</b>	<b>27909</b>	<b>26101</b>	<b>25750</b>	<b>24985</b>	<b>24145</b>	<b>22071</b>	<b>25280</b>	<b>30560</b>	<b>29226</b>	<b>26527</b>
<b>88 Total Surplus/Deficit</b>	<b>2053</b>	<b>2059</b>	<b>2639</b>	<b>3716</b>	<b>3072</b>	<b>651</b>	<b>-767</b>	<b>-356</b>	<b>1144</b>	<b>795</b>	<b>-1152</b>	<b>2475</b>	<b>7080</b>	<b>3945</b>	<b>2132</b>

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2023 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
<sup>89</sup> <b>Retail Loads</b>	23398	23414	21452	21478	24329	26671	26334	25399	23061	22281	22122	21713	22327	24022	23528
<sup>90</sup> Federal Agency	145	145	136	135	159	186	185	179	155	143	142	134	135	148	153
<sup>91</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
<sup>92</sup> Cooperative	2519	2521	2241	2150	2451	2757	2719	2620	2338	2313	2295	2337	2524	2685	2470
<sup>93</sup> Municipality	2375	2378	2284	2465	2870	3085	3135	3046	2701	2540	2514	2344	2316	2368	2624
<sup>94</sup> Public Utility District	4587	4590	4300	4512	5167	5783	5696	5422	4903	4581	4551	4328	4395	4619	4855
<sup>95</sup> Investor-Owned Utility	13058	13068	11824	11703	13263	14441	14184	13712	12495	12057	11971	11840	12201	13396	12843
<sup>96</sup> Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
<sup>97</sup> Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	401	401	401	401	401
<sup>98</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>99</sup> <b>Exports</b>	1113	1360	1171	891	1069	887	686	838	895	1241	1125	1171	1216	1328	1049
<sup>100</sup> Canada	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
<sup>101</sup> East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>102</sup> Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>103</sup> Pacific Southwest	581	773	716	436	613	432	231	382	440	786	670	716	760	852	583
<sup>104</sup> Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>105</sup> <b>Total Regional Loads</b>	<b>24512</b>	<b>24775</b>	<b>22624</b>	<b>22369</b>	<b>25397</b>	<b>27558</b>	<b>27020</b>	<b>26236</b>	<b>23956</b>	<b>23522</b>	<b>23247</b>	<b>22884</b>	<b>23542</b>	<b>25351</b>	<b>24577</b>
<b>Regional Resources</b>															
<sup>106</sup> <b>Hydro</b>	11121	11009	9493	10641	12105	12133	11284	10433	10326	10043	9564	12166	16171	13104	11566
<sup>107</sup> Regulated Hydro - Net	9831	9726	8299	9602	11197	11182	10491	9576	9278	8522	8025	10183	14142	11555	10300
<sup>108</sup> Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
<sup>109</sup> Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	242
<sup>110</sup> <b>Hon-Hydro Renewable</b>	1691	2281	2116	1740	2298	1817	1127	1667	1863	3042	2643	2845	2837	2836	2166
<sup>111</sup> Wind - Net	1295	1885	1736	1393	1981	1519	849	1362	1528	2680	2280	2463	2460	2399	1814
<sup>112</sup> Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
<sup>113</sup> Other - Net	178	178	178	179	179	179	168	178	179	177	177	168	154	200	176

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2023 Water Year: 1937**

**2019 White Book Report Date: 4/7/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>114 Thermal</b>	13478	13485	13530	13565	13766	13905	13856	13809	12708	12240	10697	9792	11154	13418	12868
115 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
116 Coal - Net	3821	3822	3825	3826	3824	3828	3823	3827	3541	2926	2729	3380	3778	3824	3677
117 Natural Gas - Net	6092	6099	6134	6198	6330	6400	6393	6351	6287	6140	5153	3914	4590	6067	5865
118 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
120 Cogeneration - Net	2425	2425	2429	2398	2470	2536	2499	2491	1737	2032	1674	2110	2353	2385	2306
<b>121 Imports</b>	575	574	507	479	667	767	603	602	505	452	452	500	649	702	584
122 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
123 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124 Inland Southwest	554	554	491	457	447	483	453	468	443	422	422	471	611	674	498
125 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
126 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>127 Reserves &amp; Losses</b>	-798	-812	-762	-785	-856	-850	-798	-787	-754	-766	-694	-751	-915	-893	-807
128 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Transmission Losses	-798	-812	-762	-785	-856	-850	-798	-787	-754	-766	-694	-751	-915	-893	-807
<b>131 Total Regional Resources</b>	<b>26066</b>	<b>26537</b>	<b>24885</b>	<b>25640</b>	<b>27980</b>	<b>27772</b>	<b>26072</b>	<b>25724</b>	<b>24648</b>	<b>25013</b>	<b>22662</b>	<b>24551</b>	<b>29896</b>	<b>29167</b>	<b>26376</b>
<b>132 Total Surplus/Deficit</b>	<b>1554</b>	<b>1762</b>	<b>2262</b>	<b>3271</b>	<b>2583</b>	<b>214</b>	<b>-948</b>	<b>-512</b>	<b>692</b>	<b>1490</b>	<b>-585</b>	<b>1666</b>	<b>6354</b>	<b>3816</b>	<b>1800</b>

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2024 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
<sup>133</sup> <b>Retail Loads</b>	23503	23519	21555	21576	24420	26769	26452	25192	23178	22311	22311	21818	22453	24140	23616
<sup>134</sup> Federal Agency	144	144	135	135	159	186	185	176	155	142	142	134	135	148	153
<sup>135</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>136</sup> Cooperative	2592	2594	2316	2226	2520	2832	2790	2653	2415	2372	2372	2402	2588	2739	2537
<sup>137</sup> Municipality	2377	2380	2285	2466	2869	3085	3135	3034	2702	2528	2528	2346	2317	2371	2626
<sup>138</sup> Public Utility District	4566	4569	4274	4482	5136	5754	5693	5312	4892	4554	4554	4315	4405	4630	4835
<sup>139</sup> Investor-Owned Utility	13111	13120	11878	11755	13317	14494	14235	13597	12546	12066	12066	11890	12252	13446	12884
<sup>140</sup> Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
<sup>141</sup> Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<sup>142</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>143</sup> <b>Exports</b>	1084	1317	1114	846	1003	873	679	809	880	1215	1102	1147	1192	1305	1018
<sup>144</sup> Canada	531	587	454	454	454	454	454	439	454	454	454	454	454	476	464
<sup>145</sup> East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>146</sup> Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>147</sup> Pacific Southwest	552	729	659	390	548	417	223	369	425	760	647	692	737	829	553
<sup>148</sup> Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>149</sup> <b>Total Regional Loads</b>	<b>24587</b>	<b>24836</b>	<b>22669</b>	<b>22422</b>	<b>25423</b>	<b>27642</b>	<b>27131</b>	<b>26001</b>	<b>24058</b>	<b>23526</b>	<b>23413</b>	<b>22965</b>	<b>23645</b>	<b>25445</b>	<b>24634</b>
<b>Regional Resources</b>															
<sup>150</sup> <b>Hydro</b>	11121	11009	9493	10649	12106	12133	11284	10433	10326	10044	9564	12159	16084	13106	11556
<sup>151</sup> Regulated Hydro - Net	9831	9726	8299	9609	11198	11182	10491	9576	9278	8522	8025	10176	14054	11558	10292
<sup>152</sup> Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1023
<sup>153</sup> Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	241
<sup>154</sup> <b>Hon-Hydro Renewable</b>	1691	2281	2116	1740	2298	1817	1127	1667	1863	3042	2643	2856	2841	2836	2166
<sup>155</sup> Wind - Net	1295	1885	1736	1393	1981	1519	849	1362	1528	2680	2280	2463	2460	2399	1813
<sup>156</sup> Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
<sup>157</sup> Other - Net	178	178	178	179	179	179	168	179	179	177	177	179	158	200	178

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2024 Water Year: 1937**

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>158 Thermal</b>	13450	13457	13529	13565	13804	13904	13854	13787	12961	12938	11228	10134	11835	13451	13028
<b>159 Nuclear - Net</b>	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
<b>160 Coal - Net</b>	3821	3822	3825	3826	3824	3828	3823	3827	3799	3654	3457	3164	3778	3824	3741
<b>161 Natural Gas - Net</b>	6064	6071	6134	6198	6330	6400	6393	6330	6284	5963	4906	3730	4560	6067	5827
<b>162 Petroleum - Net</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>163 Biofuel - Net</b>	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
<b>164 Cogeneration - Net</b>	2425	2425	2429	2398	2507	2536	2497	2490	1736	2180	1723	2096	2356	2418	2319
<b>165 Imports</b>	580	580	510	482	669	770	605	605	508	455	455	503	656	708	588
<b>166 Canada</b>	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
<b>167 East of Continental Divide</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>168 Inland Southwest</b>	560	559	494	460	449	485	456	471	445	425	425	474	617	681	502
<b>169 Pacific Southwest</b>	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>170 Other</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>171 Reserves &amp; Losses</b>	-797	-812	-762	-785	-858	-850	-798	-787	-762	-786	-710	-762	-933	-894	-812
<b>172 Operating Reserves</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>173 Balancing Reserves</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>174 Transmission Losses</b>	-797	-812	-762	-785	-858	-850	-798	-787	-762	-786	-710	-762	-933	-894	-812
<b>175 Total Regional Resources</b>	<b>26045</b>	<b>26516</b>	<b>24887</b>	<b>25651</b>	<b>28020</b>	<b>27774</b>	<b>26072</b>	<b>25706</b>	<b>24896</b>	<b>25693</b>	<b>23180</b>	<b>24890</b>	<b>30482</b>	<b>29207</b>	<b>26526</b>
<b>176 Total Surplus/Deficit</b>	<b>1457</b>	<b>1680</b>	<b>2218</b>	<b>3229</b>	<b>2596</b>	<b>132</b>	<b>-1059</b>	<b>-295</b>	<b>838</b>	<b>2168</b>	<b>-234</b>	<b>1925</b>	<b>6837</b>	<b>3762</b>	<b>1892</b>

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2025 Water Year: 1937**

**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
177 <b>Retail Loads</b>	23618	23634	21663	21677	24525	26869	26555	25607	23247	22397	22397	21902	22536	24228	23731
178 Federal Agency	144	144	135	137	160	187	186	180	156	144	144	135	136	149	154
179 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
180 Cooperative	2645	2647	2364	2267	2562	2867	2820	2720	2435	2389	2389	2417	2603	2754	2570
181 Municipality	2380	2382	2287	2468	2870	3086	3135	3047	2703	2529	2529	2348	2319	2373	2627
182 Public Utility District	4575	4578	4281	4489	5146	5765	5713	5418	4890	4570	4570	4332	4419	4650	4852
183 Investor-Owned Utility	13160	13170	11929	11804	13368	14545	14285	13822	12595	12117	12117	11940	12302	13496	12946
184 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
185 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
186 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Exports</b>															
187 <b>Exports</b>	1072	1299	1114	846	1003	873	679	825	880	1215	1102	1147	1192	1305	1018
188 Canada	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
189 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
190 Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
191 Pacific Southwest	541	711	659	390	548	417	223	369	425	760	647	692	737	829	552
192 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>193 Total Regional Loads</b>	<b>24690</b>	<b>24933</b>	<b>22777</b>	<b>22523</b>	<b>25528</b>	<b>27742</b>	<b>27233</b>	<b>26432</b>	<b>24127</b>	<b>23612</b>	<b>23500</b>	<b>23049</b>	<b>23728</b>	<b>25533</b>	<b>24749</b>
<b>Regional Resources</b>															
194 <b>Hydro</b>	11121	11009	9493	10649	12106	12133	11284	10433	10326	10028	9564	12142	15993	13077	11547
195 Regulated Hydro - Net	9831	9726	8299	9609	11198	11182	10491	9576	9278	8506	8025	10159	13963	11529	10281
196 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
197 Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	242
<b>Hon-Hydro Renewable</b>															
198 <b>Hon-Hydro Renewable</b>	1691	2281	2116	1740	2298	1818	1127	1667	1863	3042	2643	2856	2837	2836	2167
199 Wind - Net	1295	1885	1736	1393	1981	1519	849	1362	1528	2680	2280	2463	2460	2399	1814
200 Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
201 Other - Net	178	178	178	179	179	179	168	178	179	177	177	179	154	200	177

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2025 Water Year: 1937**

**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>202 Thermal</b>	13449	13457	13492	13569	13803	13903	13853	13785	12862	11903	10560	9332	11156	13450	12821
203 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
204 Coal - Net	3821	3822	3825	3826	3824	3828	3823	3827	3580	2989	2792	3151	3778	3824	3666
205 Natural Gas - Net	6064	6071	6134	6195	6330	6400	6393	6329	6284	5963	4906	3708	4590	6067	5826
206 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
208 Cogeneration - Net	2424	2424	2391	2404	2507	2535	2496	2488	1855	1809	1720	2085	2355	2417	2309
<b>209 Imports</b>	586	586	514	484	671	773	608	608	511	458	458	506	663	715	591
210 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
211 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
212 Inland Southwest	565	565	498	462	452	488	458	473	448	428	428	477	624	688	506
213 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
214 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>215 Reserves &amp; Losses</b>	-797	-812	-761	-785	-858	-850	-798	-787	-759	-755	-690	-738	-910	-893	-806
216 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Transmission Losses	-797	-812	-761	-785	-858	-850	-798	-787	-759	-755	-690	-738	-910	-893	-806
<b>219 Total Regional Resources</b>	<b>26050</b>	<b>26520</b>	<b>24854</b>	<b>25657</b>	<b>28021</b>	<b>27776</b>	<b>26074</b>	<b>25706</b>	<b>24802</b>	<b>24676</b>	<b>22534</b>	<b>24098</b>	<b>29738</b>	<b>29185</b>	<b>26320</b>
<b>220 Total Surplus/Deficit</b>	<b>1360</b>	<b>1588</b>	<b>2077</b>	<b>3134</b>	<b>2493</b>	<b>34.1</b>	<b>-1159</b>	<b>-726</b>	<b>675</b>	<b>1064</b>	<b>-965</b>	<b>1049</b>	<b>6010</b>	<b>3652</b>	<b>1571</b>

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2026 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
221 <b>Retail Loads</b>	23795	23635	21749	21760	24612	26957	26652	25723	23359	22489	22489	21991	22630	24322	23825
222 Federal Agency	146	145	136	137	160	187	187	180	156	144	144	135	136	149	154
223 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
224 Cooperative	2670	2652	2378	2283	2579	2885	2838	2738	2451	2405	2405	2431	2617	2769	2586
225 Municipality	2394	2373	2289	2469	2870	3087	3136	3047	2704	2530	2530	2349	2321	2375	2628
226 Public Utility District	4610	4583	4300	4506	5164	5785	5743	5463	4936	4595	4595	4357	4448	4679	4879
227 Investor-Owned Utility	13266	13166	11978	11852	13419	14594	14333	13874	12643	12166	12166	11988	12350	13544	12995
228 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
229 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
230 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Exports</b>															
231 <b>Exports</b>	1072	1299	1114	846	1003	873	679	825	880	1215	1102	1147	1192	1305	1018
232 Canada	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
233 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
234 Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
235 Pacific Southwest	541	711	659	390	548	417	223	369	425	760	647	692	737	829	552
236 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>237 Total Regional Loads</b>	<b>24867</b>	<b>24933</b>	<b>22863</b>	<b>22606</b>	<b>25615</b>	<b>27830</b>	<b>27330</b>	<b>26548</b>	<b>24239</b>	<b>23704</b>	<b>23591</b>	<b>23138</b>	<b>23822</b>	<b>25627</b>	<b>24843</b>
<b>Regional Resources</b>															
238 <b>Hydro</b>	11121	11009	9493	10649	12106	12133	11284	10433	10326	10044	9564	12159	16084	13106	11559
239 Regulated Hydro - Net	9831	9726	8299	9609	11198	11182	10491	9576	9278	8522	8025	10176	14054	11558	10293
240 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
241 Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	242
<b>Hon-Hydro Renewable</b>															
242 <b>Hon-Hydro Renewable</b>	1691	2281	2116	1740	2298	1818	1127	1667	1863	3042	2643	2844	2837	2836	2166
243 Wind - Net	1295	1885	1736	1393	1981	1519	849	1362	1528	2680	2280	2463	2460	2399	1814
244 Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
245 Other - Net	178	178	178	179	179	179	168	178	179	177	177	168	154	200	176



**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2026 Water Year: 1937**

**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>246 Thermal</b>	13450	13457	13529	13563	13766	13278	13110	13039	12194	11458	9741	9330	11115	12671	12469
247 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
248 Coal - Net	3821	3822	3825	3826	3824	3201	3077	3081	3029	2170	1974	2415	3031	3078	3191
249 Natural Gas - Net	6064	6071	6134	6195	6330	6400	6393	6329	6284	5963	4906	3694	4590	6067	5824
250 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
251 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
252 Cogeneration - Net	2425	2425	2429	2398	2470	2536	2499	2489	1737	2183	1720	2078	2353	2385	2311
<b>253 Imports</b>	592	592	517	488	674	775	610	610	514	461	461	509	669	722	595
254 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
255 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
256 Inland Southwest	571	571	501	466	454	491	461	476	451	430	430	480	631	695	509
257 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
258 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>259 Reserves &amp; Losses</b>	-798	-812	-762	-785	-857	-832	-776	-765	-739	-743	-666	-738	-912	-871	-796
260 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
261 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
262 Transmission Losses	-798	-812	-762	-785	-857	-832	-776	-765	-739	-743	-666	-738	-912	-871	-796
<b>263 Total Regional Resources</b>	<b>26056</b>	<b>26527</b>	<b>24894</b>	<b>25654</b>	<b>27988</b>	<b>27172</b>	<b>25355</b>	<b>24984</b>	<b>24157</b>	<b>24262</b>	<b>21743</b>	<b>24105</b>	<b>29792</b>	<b>28465</b>	<b>25993</b>
<b>264 Total Surplus/Deficit</b>	<b>1189</b>	<b>1593</b>	<b>2031</b>	<b>3048</b>	<b>2373</b>	<b>-658</b>	<b>-1976</b>	<b>-1563</b>	<b>-82.6</b>	<b>558</b>	<b>-1849</b>	<b>967</b>	<b>5970</b>	<b>2838</b>	<b>1150</b>

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2027 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
265 <b>Retail Loads</b>	23888	23727	21835	21845	24700	27047	26734	25810	23439	22570	22570	22071	22712	24406	23909
266 Federal Agency	146	145	136	137	160	188	187	181	157	144	144	136	137	149	155
267 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
268 Cooperative	2685	2666	2392	2298	2595	2902	2854	2755	2466	2420	2420	2444	2631	2783	2601
269 Municipality	2397	2375	2291	2471	2871	3087	3136	3048	2705	2531	2531	2351	2323	2377	2629
270 Public Utility District	4638	4611	4322	4527	5186	5809	5761	5480	4952	4611	4611	4374	4466	4699	4899
271 Investor-Owned Utility	13313	13213	12027	11899	13468	14642	14380	13926	12691	12215	12215	12036	12398	13591	13043
272 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
273 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
274 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Regional Resources</b>															
275 <b>Exports</b>	1072	1299	1114	846	1003	873	679	825	880	1215	1102	1147	1192	1305	1018
276 Canada	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
277 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
278 Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
279 Pacific Southwest	541	711	659	390	548	417	223	369	425	760	647	692	737	829	552
280 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>281 Total Regional Loads</b>	<b>24960</b>	<b>25026</b>	<b>22949</b>	<b>22691</b>	<b>25703</b>	<b>27919</b>	<b>27412</b>	<b>26634</b>	<b>24319</b>	<b>23785</b>	<b>23673</b>	<b>23218</b>	<b>23904</b>	<b>25711</b>	<b>24928</b>
<b>Regional Resources</b>															
282 <b>Hydro</b>	11121	11009	9493	10649	12106	12133	11284	10433	10326	10028	9564	12142	15993	13077	11547
283 Regulated Hydro - Net	9831	9726	8299	9609	11198	11182	10491	9576	9278	8506	8025	10159	13963	11529	10281
284 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
285 Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	242
286 <b>Hon-Hydro Renewable</b>	1691	2281	2116	1740	2298	1818	1127	1667	1863	3042	2643	2844	2837	2836	2166
287 Wind - Net	1295	1885	1736	1393	1981	1519	849	1362	1528	2680	2280	2463	2460	2399	1814
288 Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
289 Other - Net	178	178	178	179	179	179	168	178	179	177	177	168	154	200	176

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2027 Water Year: 1937**

**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>290 Thermal</b>	12704	12711	12783	12816	13057	13158	13107	13039	12063	12243	10532	9222	10411	12704	12201
291 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
292 Coal - Net	3075	3075	3079	3080	3077	3081	3077	3081	2900	2962	2765	3046	3031	3078	3039
293 Natural Gas - Net	6064	6071	6134	6195	6330	6400	6393	6329	6284	5963	4906	3694	4590	6067	5824
294 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
295 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
296 Cogeneration - Net	2425	2425	2429	2398	2507	2536	2497	2489	1736	2176	1720	2095	2356	2418	2318
<b>297 Imports</b>	598	598	520	490	676	778	613	613	517	464	464	512	676	729	599
298 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
299 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300 Inland Southwest	577	577	504	468	457	494	463	479	454	433	433	483	637	702	513
301 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
302 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>303 Reserves &amp; Losses</b>	-776	-790	-740	-763	-836	-828	-776	-765	-736	-766	-689	-734	-889	-872	-787
304 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
305 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
306 Transmission Losses	-776	-790	-740	-763	-836	-828	-776	-765	-736	-766	-689	-734	-889	-872	-787
<b>307 Total Regional Resources</b>	<b>25338</b>	<b>25808</b>	<b>24173</b>	<b>24932</b>	<b>27302</b>	<b>27058</b>	<b>25355</b>	<b>24987</b>	<b>24032</b>	<b>25011</b>	<b>22514</b>	<b>23986</b>	<b>29028</b>	<b>28475</b>	<b>25725</b>
<b>308 Total Surplus/Deficit</b>	<b>377</b>	<b>783</b>	<b>1223</b>	<b>2242</b>	<b>1600</b>	<b>-862</b>	<b>-2057</b>	<b>-1647</b>	<b>-287</b>	<b>1226</b>	<b>-1159</b>	<b>768</b>	<b>5124</b>	<b>2764</b>	<b>798</b>

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2028 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
309 <b>Retail Loads</b>	23772	23996	21915	21925	24782	27131	26796	25545	23502	22716	22555	22135	22778	24473	23960
310 Federal Agency	145	146	136	137	161	188	187	178	157	145	144	136	137	150	155
311 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
312 Cooperative	2675	2701	2404	2312	2610	2917	2870	2734	2481	2444	2426	2456	2644	2796	2613
313 Municipality	2372	2402	2293	2472	2872	3088	3137	3036	2706	2545	2519	2353	2325	2380	2631
314 Public Utility District	4625	4662	4340	4545	5204	5829	5759	5376	4952	4627	4597	4376	4470	4703	4901
315 Investor-Owned Utility	13237	13375	12075	11945	13516	14689	14428	13800	12738	12307	12220	12083	12446	13638	13079
316 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
317 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	401	401	401	401	401
318 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
319 <b>Exports</b>	1036	1333	1114	846	1003	873	679	825	880	1233	1084	1147	1192	1305	1018
320 Canada	495	620	454	454	454	454	454	454	454	472	436	454	454	476	465
321 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
322 Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
323 Pacific Southwest	541	711	659	390	548	417	223	369	425	760	647	692	737	829	552
324 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
325 <b>Total Regional Loads</b>	<b>24808</b>	<b>25328</b>	<b>23029</b>	<b>22771</b>	<b>25785</b>	<b>28004</b>	<b>27475</b>	<b>26370</b>	<b>24382</b>	<b>23949</b>	<b>23639</b>	<b>23282</b>	<b>23970</b>	<b>25778</b>	<b>24978</b>
<b>Regional Resources</b>															
326 <b>Hydro</b>	11121	11009	9493	10649	12106	12133	11284	10433	10326	10044	9564	12159	16084	13106	11556
327 Regulated Hydro - Net	9831	9726	8299	9609	11198	11182	10491	9576	9278	8522	8025	10176	14054	11558	10292
328 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1023
329 Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	241
330 <b>Hon-Hydro Renewable</b>	1691	2281	2116	1740	2298	1818	1127	1667	1863	3042	2642	2856	2832	2827	2164
331 Wind - Net	1295	1885	1736	1393	1981	1519	849	1362	1528	2680	2280	2463	2451	2390	1811
332 Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
333 Other - Net	178	178	177	179	179	179	168	179	179	177	177	179	158	200	178

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2028 Water Year: 1937**

**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>334 Thermal</b>	12703	12710	12745	12822	13057	13157	13107	13040	12352	10897	9554	9669	11087	12703	12223
335 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
336 Coal - Net	3075	3075	3079	3080	3077	3081	3077	3081	3071	1980	1783	2711	3031	3078	2945
337 Natural Gas - Net	6064	6071	6134	6195	6330	6400	6393	6330	6284	5963	4906	3730	4560	6067	5827
338 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
339 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
340 Cogeneration - Net	2424	2424	2391	2404	2507	2535	2496	2489	1855	1812	1723	2085	2355	2417	2310
<b>341 Imports</b>	604	604	523	493	679	781	615	615	520	467	466	516	683	737	603
342 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
343 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
344 Inland Southwest	583	583	507	472	459	496	466	481	457	436	436	487	644	710	517
345 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
346 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>347 Reserves &amp; Losses</b>	-776	-790	-739	-763	-836	-828	-776	-765	-744	-726	-660	-748	-911	-872	-788
348 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
349 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350 Transmission Losses	-776	-790	-739	-763	-836	-828	-776	-765	-744	-726	-660	-748	-911	-872	-788
<b>351 Total Regional Resources</b>	<b>25342</b>	<b>25813</b>	<b>24139</b>	<b>24942</b>	<b>27304</b>	<b>27060</b>	<b>25357</b>	<b>24991</b>	<b>24316</b>	<b>23724</b>	<b>21566</b>	<b>24451</b>	<b>29774</b>	<b>28502</b>	<b>25758</b>
<b>352 Total Surplus/Deficit</b>	<b>534</b>	<b>485</b>	<b>1110</b>	<b>2171</b>	<b>1519</b>	<b>-944</b>	<b>-2118</b>	<b>-1379</b>	<b>-66.4</b>	<b>-226</b>	<b>-2073</b>	<b>1169</b>	<b>5804</b>	<b>2724</b>	<b>780</b>

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2029 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
<sup>353</sup> <b>Retail Loads</b>	23944	23961	21978	21987	24843	27191	26875	25957	23558	22631	22793	22210	22852	24549	24050
<sup>354</sup> Federal Agency	146	146	137	137	161	188	188	181	157	144	145	136	137	150	155
<sup>355</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	245	243	327	353	403	178
<sup>356</sup> Cooperative	2701	2703	2417	2326	2625	2933	2886	2799	2496	2440	2459	2469	2657	2809	2630
<sup>357</sup> Municipality	2389	2391	2295	2474	2872	3089	3138	3050	2707	2521	2547	2355	2327	2382	2632
<sup>358</sup> Public Utility District	4645	4648	4340	4545	5200	5825	5774	5478	4945	4609	4639	4389	4481	4716	4912
<sup>359</sup> Investor-Owned Utility	13350	13360	12122	11991	13564	14737	14475	14029	12785	12268	12355	12130	12494	13685	13138
<sup>360</sup> Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
<sup>361</sup> Direct-Service Industry	401	401	401	402	402	402	402	401	401	401	402	401	401	401	401
<sup>362</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>363</sup> <b>Exports</b>	1055	1315	1114	846	1003	873	679	825	880	1197	1113	1139	1184	1297	1016
<sup>364</sup> Canada	513	603	454	454	454	454	454	454	454	436	472	454	454	476	465
<sup>365</sup> East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>366</sup> Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>367</sup> Pacific Southwest	541	711	659	390	548	417	223	369	425	760	639	684	729	821	550
<sup>368</sup> Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>369</sup> <b>Total Regional Loads</b>	<b>24999</b>	<b>25276</b>	<b>23092</b>	<b>22833</b>	<b>25846</b>	<b>28064</b>	<b>27553</b>	<b>26782</b>	<b>24438</b>	<b>23828</b>	<b>23906</b>	<b>23349</b>	<b>24036</b>	<b>25846</b>	<b>25066</b>
<b>Regional Resources</b>															
<sup>370</sup> <b>Hydro</b>	11121	11009	9493	10649	12106	12133	11284	10433	10326	10028	9564	12142	15993	13077	11547
<sup>371</sup> Regulated Hydro - Net	9831	9726	8299	9609	11198	11182	10491	9576	9278	8506	8025	10159	13963	11529	10281
<sup>372</sup> Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
<sup>373</sup> Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	242
<sup>374</sup> <b>Hon-Hydro Renewable</b>	1686	2274	2110	1735	2291	1812	1124	1662	1857	3032	2634	2847	2828	2827	2160
<sup>375</sup> Wind - Net	1291	1878	1729	1388	1973	1514	846	1357	1522	2670	2272	2454	2451	2390	1807
<sup>376</sup> Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
<sup>377</sup> Other - Net	178	178	177	179	179	179	168	178	179	177	177	179	154	200	177

**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2029 Water Year: 1937**

**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<sup>378</sup> <b>Thermal</b>	12704	12711	12783	12816	13020	13158	13110	13039	12031	11783	10066	8912	10408	12671	12128
<sup>379</sup> Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
<sup>380</sup> Coal - Net	3075	3075	3079	3080	3077	3081	3077	3081	2867	2492	2296	2737	3031	3078	2971
<sup>381</sup> Natural Gas - Net	6064	6071	6134	6195	6330	6400	6393	6329	6284	5963	4906	3708	4590	6067	5826
<sup>382</sup> Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>383</sup> Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
<sup>384</sup> Cogeneration - Net	2425	2425	2429	2398	2470	2536	2499	2489	1737	2186	1723	2079	2353	2385	2312
<sup>385</sup> <b>Imports</b>	610	610	527	496	682	783	618	618	523	469	469	519	689	745	607
<sup>386</sup> Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
<sup>387</sup> East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>388</sup> Inland Southwest	589	589	511	474	462	499	468	484	460	439	439	490	650	718	521
<sup>389</sup> Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<sup>390</sup> Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>391</sup> <b>Reserves &amp; Losses</b>	-776	-790	-740	-763	-835	-828	-776	-765	-735	-752	-675	-725	-889	-871	-785
<sup>392</sup> Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>393</sup> Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>394</sup> Transmission Losses	-776	-790	-740	-763	-835	-828	-776	-765	-735	-752	-675	-725	-889	-871	-785
<sup>395</sup> <b>Total Regional Resources</b>	<b>25345</b>	<b>25813</b>	<b>24173</b>	<b>24933</b>	<b>27264</b>	<b>27058</b>	<b>25359</b>	<b>24987</b>	<b>24002</b>	<b>24560</b>	<b>22058</b>	<b>23694</b>	<b>29029</b>	<b>28450</b>	<b>25656</b>
<sup>396</sup> <b>Total Surplus/Deficit</b>	<b>346</b>	<b>538</b>	<b>1081</b>	<b>2101</b>	<b>1418</b>	<b>-1006</b>	<b>-2194</b>	<b>-1795</b>	<b>-437</b>	<b>732</b>	<b>-1847</b>	<b>346</b>	<b>4993</b>	<b>2604</b>	<b>590</b>

**Loads and Resources - Pacific Northwest Region**  
**Operating Year: 2030 Water Year: 1937**  
**2019 White Book Report Date: 4/7/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regional Loads</b>															
<sup>397</sup> <b>Retail Loads</b>	24018	24035	22052	22060	24920	27269	26953	26056	23654	22790	22790	22285	22930	24628	24130
<sup>398</sup> Federal Agency	146	146	137	138	161	188	188	181	157	145	145	136	137	150	155
<sup>399</sup> USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<sup>400</sup> Cooperative	2714	2716	2430	2341	2641	2949	2902	2815	2510	2464	2464	2481	2670	2823	2645
<sup>401</sup> Municipality	2391	2393	2296	2475	2873	3090	3139	3050	2708	2535	2535	2356	2329	2384	2634
<sup>402</sup> Public Utility District	4657	4660	4352	4557	5213	5838	5787	5506	4975	4636	4636	4401	4494	4731	4927
<sup>403</sup> Investor-Owned Utility	13396	13406	12170	12037	13613	14784	14524	14083	12834	12362	12362	12179	12543	13734	13187
<sup>404</sup> Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
<sup>405</sup> Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<sup>406</sup> Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>407</sup> <b>Exports</b>	1047	1307	1106	837	1003	873	679	825	880	1215	1094	1139	1184	1297	1014
<sup>408</sup> Canada	513	603	454	454	454	454	454	454	454	454	454	454	454	476	465
<sup>409</sup> East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>410</sup> Inland Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>411</sup> Pacific Southwest	532	703	651	382	548	417	223	369	425	760	639	684	729	821	548
<sup>412</sup> Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<sup>413</sup> <b>Total Regional Loads</b>	<b>25065</b>	<b>25342</b>	<b>23158</b>	<b>22898</b>	<b>25923</b>	<b>28141</b>	<b>27632</b>	<b>26881</b>	<b>24534</b>	<b>24005</b>	<b>23884</b>	<b>23424</b>	<b>24114</b>	<b>25926</b>	<b>25144</b>
<b>Regional Resources</b>															
<sup>414</sup> <b>Hydro</b>	11121	11009	9493	10649	12106	12133	11284	10433	10326	10044	9564	12159	16084	13106	11559
<sup>415</sup> Regulated Hydro - Net	9831	9726	8299	9609	11198	11182	10491	9576	9278	8522	8025	10176	14054	11558	10293
<sup>416</sup> Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
<sup>417</sup> Small Hydro - Net	290	288	228	165	131	129	127	135	165	284	285	406	425	408	242
<sup>418</sup> <b>Hon-Hydro Renewable</b>	1686	2274	2110	1735	2291	1812	1124	1662	1857	3032	2634	2835	2828	2827	2159
<sup>419</sup> Wind - Net	1291	1878	1729	1388	1973	1514	846	1357	1522	2670	2272	2454	2451	2390	1807
<sup>420</sup> Solar - Net	218	218	203	168	139	119	111	126	156	185	185	213	223	237	175
<sup>421</sup> Other - Net	178	178	177	179	179	179	168	178	179	177	177	168	154	200	176



**Loads and Resources - Pacific Northwest Region**

**Operating Year: 2030 Water Year: 1937**

**2019 White Book** Report Date: **4/7/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
422 <b>Thermal</b>	12623	12711	12783	12816	13057	13158	13107	13039	12257	12188	10478	9656	11118	12704	12305
423 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
424 Coal - Net	3075	3075	3079	3080	3077	3081	3077	3081	3095	2907	2711	2724	3031	3078	3024
425 Natural Gas - Net	5983	6071	6134	6195	6330	6400	6393	6329	6284	5963	4906	3694	4590	6067	5821
426 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
427 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7
428 Cogeneration - Net	2425	2425	2429	2398	2507	2536	2497	2489	1736	2177	1720	2095	2356	2418	2318
429 <b>Imports</b>	617	616	530	499	684	786	620	621	526	472	472	522	696	752	610
430 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
431 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
432 Inland Southwest	596	595	514	477	465	502	471	487	463	442	442	493	657	725	525
433 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
434 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
435 <b>Reserves &amp; Losses</b>	-774	-790	-740	-763	-836	-828	-776	-765	-741	-764	-687	-748	-913	-873	-791
436 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
437 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
438 Transmission Losses	-774	-790	-740	-763	-836	-828	-776	-765	-741	-764	-687	-748	-913	-873	-791
439 <b>Total Regional Resources</b>	<b>25273</b>	<b>25820</b>	<b>24176</b>	<b>24936</b>	<b>27303</b>	<b>27061</b>	<b>25359</b>	<b>24990</b>	<b>24224</b>	<b>24972</b>	<b>22460</b>	<b>24424</b>	<b>29813</b>	<b>28517</b>	<b>25842</b>
440 <b>Total Surplus/Deficit</b>	<b>207</b>	<b>478</b>	<b>1018</b>	<b>2038</b>	<b>1381</b>	<b>-1081</b>	<b>-2273</b>	<b>-1891</b>	<b>-310</b>	<b>968</b>	<b>-1424</b>	<b>1000</b>	<b>5698</b>	<b>2591</b>	<b>698</b>

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***Exhibit 25***  
***Regional Total Retail Load***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional: Total Retail Loads**  
**Operating Year 2021**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	129	128	119	125	148	175	176	169	146	135	135	130	130	143	144
2 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
3 Cooperative	2372	2355	2091	1995	2286	2600	2554	2452	2185	2139	2139	2178	2372	2521	2311
4 Municipality	2379	2358	2282	2459	2866	3082	3133	3044	2697	2523	2523	2339	2310	2362	2620
5 Public Utility District	4225	4199	3918	4124	4756	5343	5328	5034	4495	4224	4224	4025	4115	4335	4490
6 Investor-Owned Utility	13012	12913	11720	11602	13157	14337	14078	13595	12388	11904	11904	11733	12093	13290	12737
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>9 Total Firm Loads</b>	<b>22826</b>	<b>22669</b>	<b>20796</b>	<b>20817</b>	<b>23633</b>	<b>25957</b>	<b>25684</b>	<b>24714</b>	<b>22380</b>	<b>21574</b>	<b>21574</b>	<b>21135</b>	<b>21776</b>	<b>23457</b>	<b>22884</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>23.8</b>	<b>54.4</b>	<b>33.8</b>	<b>33.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.7</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	129	128	119	125	148	175	176	169	146	135	135	130	130	143	144
13 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
14 Cooperative	2372	2355	2091	1995	2286	2600	2554	2452	2185	2139	2139	2178	2372	2521	2311
15 Municipality	2379	2358	2282	2459	2866	3082	3133	3044	2697	2523	2523	2339	2310	2362	2620
16 Public Utility District	4225	4199	3932	4124	4756	5343	5332	5058	4549	4257	4257	4025	4115	4335	4501
17 Investor-Owned Utility	13012	12913	11720	11602	13157	14337	14078	13595	12388	11904	11904	11733	12093	13290	12737
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>20 Total Loads</b>	<b>22826</b>	<b>22669</b>	<b>20811</b>	<b>20817</b>	<b>23633</b>	<b>25957</b>	<b>25687</b>	<b>24738</b>	<b>22434</b>	<b>21607</b>	<b>21607</b>	<b>21135</b>	<b>21776</b>	<b>23457</b>	<b>22895</b>

**Regional: Total Retail Loads**  
**Operating Year 2022**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	139	140	130	136	159	186	186	180	156	143	143	135	136	149	153
2 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
3 Cooperative	2423	2447	2161	2060	2362	2668	2621	2533	2254	2212	2212	2259	2446	2602	2384
4 Municipality	2357	2387	2280	2461	2867	3083	3135	3046	2700	2526	2526	2343	2314	2366	2622
5 Public Utility District	4275	4310	3997	4208	4844	5438	5672	5380	4835	4520	4520	4320	4408	4631	4710
6 Investor-Owned Utility	12940	13077	11771	11651	13208	14388	14131	13654	12442	11959	11959	11787	12147	13343	12790
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>9 Total Firm Loads</b>	<b>22852</b>	<b>23070</b>	<b>21006</b>	<b>21030</b>	<b>23860</b>	<b>26182</b>	<b>26160</b>	<b>25213</b>	<b>22856</b>	<b>22010</b>	<b>22010</b>	<b>21575</b>	<b>22207</b>	<b>23897</b>	<b>23241</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>23.8</b>	<b>54.4</b>	<b>33.8</b>	<b>33.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.7</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	139	140	130	136	159	186	186	180	156	143	143	135	136	149	153
13 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
14 Cooperative	2423	2447	2161	2060	2362	2668	2621	2533	2254	2212	2212	2259	2446	2602	2384
15 Municipality	2357	2387	2280	2461	2867	3083	3135	3046	2700	2526	2526	2343	2314	2366	2622
16 Public Utility District	4275	4310	4012	4208	4844	5438	5675	5404	4889	4554	4554	4320	4408	4631	4720
17 Investor-Owned Utility	12940	13077	11771	11651	13208	14388	14131	13654	12442	11959	11959	11787	12147	13343	12790
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>20 Total Loads</b>	<b>22852</b>	<b>23070</b>	<b>21021</b>	<b>21030</b>	<b>23860</b>	<b>26182</b>	<b>26163</b>	<b>25236</b>	<b>22911</b>	<b>22044</b>	<b>22044</b>	<b>21575</b>	<b>22207</b>	<b>23897</b>	<b>23252</b>

**Regional: Total Retail Loads**  
**Operating Year 2023**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	145	145	136	135	159	186	185	179	155	143	142	134	135	148	153
2 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
3 Cooperative	2519	2521	2241	2150	2451	2757	2719	2620	2338	2313	2295	2337	2524	2685	2470
4 Municipality	2375	2378	2284	2465	2870	3085	3135	3046	2701	2540	2514	2344	2316	2368	2624
5 Public Utility District	4587	4590	4286	4512	5167	5783	5692	5398	4849	4547	4518	4328	4395	4619	4844
6 Investor-Owned Utility	13058	13068	11824	11703	13263	14441	14184	13712	12495	12057	11971	11840	12201	13396	12843
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	401	401	401	401	401
<b>9 Total Firm Loads</b>	<b>23398</b>	<b>23414</b>	<b>21438</b>	<b>21478</b>	<b>24329</b>	<b>26671</b>	<b>26330</b>	<b>25375</b>	<b>23006</b>	<b>22247</b>	<b>22088</b>	<b>21713</b>	<b>22327</b>	<b>24022</b>	<b>23517</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.9	33.7	0	0	0	10.7
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>23.8</b>	<b>54.4</b>	<b>33.9</b>	<b>33.7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.7</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	145	145	136	135	159	186	185	179	155	143	142	134	135	148	153
13 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
14 Cooperative	2519	2521	2241	2150	2451	2757	2719	2620	2338	2313	2295	2337	2524	2685	2470
15 Municipality	2375	2378	2284	2465	2870	3085	3135	3046	2701	2540	2514	2344	2316	2368	2624
16 Public Utility District	4587	4590	4300	4512	5167	5783	5696	5422	4903	4581	4551	4328	4395	4619	4855
17 Investor-Owned Utility	13058	13068	11824	11703	13263	14441	14184	13712	12495	12057	11971	11840	12201	13396	12843
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	401	401	401	401	401
<b>20 Total Loads</b>	<b>23398</b>	<b>23414</b>	<b>21452</b>	<b>21478</b>	<b>24329</b>	<b>26671</b>	<b>26334</b>	<b>25399</b>	<b>23061</b>	<b>22281</b>	<b>22122</b>	<b>21713</b>	<b>22327</b>	<b>24022</b>	<b>23528</b>

**Regional: Total Retail Loads**  
**Operating Year 2024**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	144	144	135	135	159	186	185	176	155	142	142	134	135	148	153
2 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
3 Cooperative	2592	2594	2316	2226	2520	2832	2790	2653	2415	2372	2372	2402	2588	2739	2537
4 Municipality	2377	2380	2285	2466	2869	3085	3135	3034	2702	2528	2528	2346	2317	2371	2626
5 Public Utility District	4566	4569	4260	4482	5136	5754	5689	5288	4837	4520	4520	4315	4405	4630	4824
6 Investor-Owned Utility	13111	13120	11878	11755	13317	14494	14235	13597	12546	12066	12066	11890	12252	13446	12884
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>9 Total Firm Loads</b>	<b>23503</b>	<b>23519</b>	<b>21541</b>	<b>21576</b>	<b>24420</b>	<b>26769</b>	<b>26449</b>	<b>25168</b>	<b>23123</b>	<b>22277</b>	<b>22277</b>	<b>21818</b>	<b>22453</b>	<b>24140</b>	<b>23606</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>23.8</b>	<b>54.4</b>	<b>33.8</b>	<b>33.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.7</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	144	144	135	135	159	186	185	176	155	142	142	134	135	148	153
13 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
14 Cooperative	2592	2594	2316	2226	2520	2832	2790	2653	2415	2372	2372	2402	2588	2739	2537
15 Municipality	2377	2380	2285	2466	2869	3085	3135	3034	2702	2528	2528	2346	2317	2371	2626
16 Public Utility District	4566	4569	4274	4482	5136	5754	5693	5312	4892	4554	4554	4315	4405	4630	4835
17 Investor-Owned Utility	13111	13120	11878	11755	13317	14494	14235	13597	12546	12066	12066	11890	12252	13446	12884
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>20 Total Loads</b>	<b>23503</b>	<b>23519</b>	<b>21555</b>	<b>21576</b>	<b>24420</b>	<b>26769</b>	<b>26452</b>	<b>25192</b>	<b>23178</b>	<b>22311</b>	<b>22311</b>	<b>21818</b>	<b>22453</b>	<b>24140</b>	<b>23616</b>

**Regional: Total Retail Loads**  
**Operating Year 2025**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	144	144	135	137	160	187	186	180	156	144	144	135	136	149	154
2 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
3 Cooperative	2645	2647	2364	2267	2562	2867	2820	2720	2435	2389	2389	2417	2603	2754	2570
4 Municipality	2380	2382	2287	2468	2870	3086	3135	3047	2703	2529	2529	2348	2319	2373	2627
5 Public Utility District	4575	4578	4267	4489	5146	5765	5709	5394	4835	4536	4536	4332	4419	4650	4842
6 Investor-Owned Utility	13160	13170	11929	11804	13368	14545	14285	13822	12595	12117	12117	11940	12302	13496	12946
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>9 Total Firm Loads</b>	<b>23618</b>	<b>23634</b>	<b>21649</b>	<b>21677</b>	<b>24525</b>	<b>26869</b>	<b>26551</b>	<b>25583</b>	<b>23193</b>	<b>22363</b>	<b>22363</b>	<b>21902</b>	<b>22536</b>	<b>24228</b>	<b>23721</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>23.8</b>	<b>54.4</b>	<b>33.8</b>	<b>33.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.7</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	144	144	135	137	160	187	186	180	156	144	144	135	136	149	154
13 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
14 Cooperative	2645	2647	2364	2267	2562	2867	2820	2720	2435	2389	2389	2417	2603	2754	2570
15 Municipality	2380	2382	2287	2468	2870	3086	3135	3047	2703	2529	2529	2348	2319	2373	2627
16 Public Utility District	4575	4578	4281	4489	5146	5765	5713	5418	4890	4570	4570	4332	4419	4650	4852
17 Investor-Owned Utility	13160	13170	11929	11804	13368	14545	14285	13822	12595	12117	12117	11940	12302	13496	12946
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>20 Total Loads</b>	<b>23618</b>	<b>23634</b>	<b>21663</b>	<b>21677</b>	<b>24525</b>	<b>26869</b>	<b>26555</b>	<b>25607</b>	<b>23247</b>	<b>22397</b>	<b>22397</b>	<b>21902</b>	<b>22536</b>	<b>24228</b>	<b>23731</b>



**Regional: Total Retail Loads**  
**Operating Year 2026**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	146	145	136	137	160	187	187	180	156	144	144	135	136	149	154
2 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
3 Cooperative	2670	2652	2378	2283	2579	2885	2838	2738	2451	2405	2405	2431	2617	2769	2586
4 Municipality	2394	2373	2289	2469	2870	3087	3136	3047	2704	2530	2530	2349	2321	2375	2628
5 Public Utility District	4610	4583	4286	4506	5164	5785	5740	5439	4881	4561	4561	4357	4448	4679	4868
6 Investor-Owned Utility	13266	13166	11978	11852	13419	14594	14333	13874	12643	12166	12166	11988	12350	13544	12995
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>9 Total Firm Loads</b>	<b>23795</b>	<b>23635</b>	<b>21735</b>	<b>21760</b>	<b>24612</b>	<b>26957</b>	<b>26648</b>	<b>25699</b>	<b>23305</b>	<b>22455</b>	<b>22455</b>	<b>21991</b>	<b>22630</b>	<b>24322</b>	<b>23814</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>23.8</b>	<b>54.4</b>	<b>33.8</b>	<b>33.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.7</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	146	145	136	137	160	187	187	180	156	144	144	135	136	149	154
13 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
14 Cooperative	2670	2652	2378	2283	2579	2885	2838	2738	2451	2405	2405	2431	2617	2769	2586
15 Municipality	2394	2373	2289	2469	2870	3087	3136	3047	2704	2530	2530	2349	2321	2375	2628
16 Public Utility District	4610	4583	4300	4506	5164	5785	5743	5463	4936	4595	4595	4357	4448	4679	4879
17 Investor-Owned Utility	13266	13166	11978	11852	13419	14594	14333	13874	12643	12166	12166	11988	12350	13544	12995
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>20 Total Loads</b>	<b>23795</b>	<b>23635</b>	<b>21749</b>	<b>21760</b>	<b>24612</b>	<b>26957</b>	<b>26652</b>	<b>25723</b>	<b>23359</b>	<b>22489</b>	<b>22489</b>	<b>21991</b>	<b>22630</b>	<b>24322</b>	<b>23825</b>

**Regional: Total Retail Loads**  
**Operating Year 2027**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	146	145	136	137	160	188	187	181	157	144	144	136	137	149	155
2 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
3 Cooperative	2685	2666	2392	2298	2595	2902	2854	2755	2466	2420	2420	2444	2631	2783	2601
4 Municipality	2397	2375	2291	2471	2871	3087	3136	3048	2705	2531	2531	2351	2323	2377	2629
5 Public Utility District	4638	4611	4308	4527	5186	5809	5758	5456	4898	4578	4578	4374	4466	4699	4888
6 Investor-Owned Utility	13313	13213	12027	11899	13468	14642	14380	13926	12691	12215	12215	12036	12398	13591	13043
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>9 Total Firm Loads</b>	<b>23888</b>	<b>23727</b>	<b>21821</b>	<b>21845</b>	<b>24700</b>	<b>27047</b>	<b>26730</b>	<b>25786</b>	<b>23385</b>	<b>22536</b>	<b>22536</b>	<b>22071</b>	<b>22712</b>	<b>24406</b>	<b>23899</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>23.8</b>	<b>54.4</b>	<b>33.8</b>	<b>33.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.7</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	146	145	136	137	160	188	187	181	157	144	144	136	137	149	155
13 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
14 Cooperative	2685	2666	2392	2298	2595	2902	2854	2755	2466	2420	2420	2444	2631	2783	2601
15 Municipality	2397	2375	2291	2471	2871	3087	3136	3048	2705	2531	2531	2351	2323	2377	2629
16 Public Utility District	4638	4611	4322	4527	5186	5809	5761	5480	4952	4611	4611	4374	4466	4699	4899
17 Investor-Owned Utility	13313	13213	12027	11899	13468	14642	14380	13926	12691	12215	12215	12036	12398	13591	13043
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>20 Total Loads</b>	<b>23888</b>	<b>23727</b>	<b>21835</b>	<b>21845</b>	<b>24700</b>	<b>27047</b>	<b>26734</b>	<b>25810</b>	<b>23439</b>	<b>22570</b>	<b>22570</b>	<b>22071</b>	<b>22712</b>	<b>24406</b>	<b>23909</b>

**Regional: Total Retail Loads**  
**Operating Year 2028**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	145	146	136	137	161	188	187	178	157	145	144	136	137	150	155
2 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
3 Cooperative	2675	2701	2404	2312	2610	2917	2870	2734	2481	2444	2426	2456	2644	2796	2613
4 Municipality	2372	2402	2293	2472	2872	3088	3137	3036	2706	2545	2519	2353	2325	2380	2631
5 Public Utility District	4625	4662	4325	4545	5204	5829	5756	5353	4897	4593	4563	4376	4470	4703	4890
6 Investor-Owned Utility	13237	13375	12075	11945	13516	14689	14428	13800	12738	12307	12220	12083	12446	13638	13079
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	401	401	401	401	401
<b>9 Total Firm Loads</b>	<b>23772</b>	<b>23996</b>	<b>21901</b>	<b>21925</b>	<b>24782</b>	<b>27131</b>	<b>26793</b>	<b>25521</b>	<b>23448</b>	<b>22682</b>	<b>22521</b>	<b>22135</b>	<b>22778</b>	<b>24473</b>	<b>23950</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.9	33.7	0	0	0	10.7
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>23.8</b>	<b>54.4</b>	<b>33.9</b>	<b>33.7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.7</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	145	146	136	137	161	188	187	178	157	145	144	136	137	150	155
13 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
14 Cooperative	2675	2701	2404	2312	2610	2917	2870	2734	2481	2444	2426	2456	2644	2796	2613
15 Municipality	2372	2402	2293	2472	2872	3088	3137	3036	2706	2545	2519	2353	2325	2380	2631
16 Public Utility District	4625	4662	4340	4545	5204	5829	5759	5376	4952	4627	4597	4376	4470	4703	4901
17 Investor-Owned Utility	13237	13375	12075	11945	13516	14689	14428	13800	12738	12307	12220	12083	12446	13638	13079
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	401	401	401	401	401
<b>20 Total Loads</b>	<b>23772</b>	<b>23996</b>	<b>21915</b>	<b>21925</b>	<b>24782</b>	<b>27131</b>	<b>26796</b>	<b>25545</b>	<b>23502</b>	<b>22716</b>	<b>22555</b>	<b>22135</b>	<b>22778</b>	<b>24473</b>	<b>23960</b>

**Regional: Total Retail Loads**  
**Operating Year 2029**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	146	146	137	137	161	188	188	181	157	144	145	136	137	150	155
2 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	245	243	327	353	403	178
3 Cooperative	2701	2703	2417	2326	2625	2933	2886	2799	2496	2440	2459	2469	2657	2809	2630
4 Municipality	2389	2391	2295	2474	2872	3089	3138	3050	2707	2521	2547	2355	2327	2382	2632
5 Public Utility District	4645	4648	4326	4545	5200	5825	5770	5453	4890	4575	4605	4389	4481	4716	4901
6 Investor-Owned Utility	13350	13360	12122	11991	13564	14737	14475	14029	12785	12268	12355	12130	12494	13685	13138
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	401	402	401	401	401	401
<b>9 Total Firm Loads</b>	<b>23944</b>	<b>23961</b>	<b>21963</b>	<b>21987</b>	<b>24843</b>	<b>27191</b>	<b>26871</b>	<b>25933</b>	<b>23504</b>	<b>22598</b>	<b>22759</b>	<b>22210</b>	<b>22852</b>	<b>24549</b>	<b>24040</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	24.6	54.4	33.7	33.9	0	0	0	10.8
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>24.6</b>	<b>54.4</b>	<b>33.7</b>	<b>33.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.8</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	146	146	137	137	161	188	188	181	157	144	145	136	137	150	155
13 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	245	243	327	353	403	178
14 Cooperative	2701	2703	2417	2326	2625	2933	2886	2799	2496	2440	2459	2469	2657	2809	2630
15 Municipality	2389	2391	2295	2474	2872	3089	3138	3050	2707	2521	2547	2355	2327	2382	2632
16 Public Utility District	4645	4648	4340	4545	5200	5825	5774	5478	4945	4609	4639	4389	4481	4716	4912
17 Investor-Owned Utility	13350	13360	12122	11991	13564	14737	14475	14029	12785	12268	12355	12130	12494	13685	13138
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	401	402	401	401	401	401
<b>20 Total Loads</b>	<b>23944</b>	<b>23961</b>	<b>21978</b>	<b>21987</b>	<b>24843</b>	<b>27191</b>	<b>26875</b>	<b>25957</b>	<b>23558</b>	<b>22631</b>	<b>22793</b>	<b>22210</b>	<b>22852</b>	<b>24549</b>	<b>24050</b>

**Regional: Total Retail Loads**  
**Operating Year 2030**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Firm Loads</b>															
1 Federal Agency	146	146	137	138	161	188	188	181	157	145	145	136	137	150	155
2 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
3 Cooperative	2714	2716	2430	2341	2641	2949	2902	2815	2510	2464	2464	2481	2670	2823	2645
4 Municipality	2391	2393	2296	2475	2873	3090	3139	3050	2708	2535	2535	2356	2329	2384	2634
5 Public Utility District	4657	4660	4338	4557	5213	5838	5783	5481	4921	4602	4602	4401	4494	4731	4916
6 Investor-Owned Utility	13396	13406	12170	12037	13613	14784	14524	14083	12834	12362	12362	12179	12543	13734	13187
7 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>9 Total Firm Loads</b>	<b>24018</b>	<b>24035</b>	<b>22037</b>	<b>22060</b>	<b>24920</b>	<b>27269</b>	<b>26950</b>	<b>26031</b>	<b>23600</b>	<b>22756</b>	<b>22756</b>	<b>22285</b>	<b>22930</b>	<b>24628</b>	<b>24120</b>
<b>Non-Firm Loads</b>															
10 Public Utility District	0	0	14.3	0	0	0	3.50	24.6	54.4	33.8	33.8	0	0	0	10.8
<b>11 Total Non-Firm Loads</b>	<b>0</b>	<b>0</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.50</b>	<b>24.6</b>	<b>54.4</b>	<b>33.8</b>	<b>33.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10.8</b>
<b>Total Regional Loads (Firm+Non-Firm)</b>															
12 Federal Agency	146	146	137	138	161	188	188	181	157	145	145	136	137	150	155
13 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
14 Cooperative	2714	2716	2430	2341	2641	2949	2902	2815	2510	2464	2464	2481	2670	2823	2645
15 Municipality	2391	2393	2296	2475	2873	3090	3139	3050	2708	2535	2535	2356	2329	2384	2634
16 Public Utility District	4657	4660	4352	4557	5213	5838	5787	5506	4975	4636	4636	4401	4494	4731	4927
17 Investor-Owned Utility	13396	13406	12170	12037	13613	14784	14524	14083	12834	12362	12362	12179	12543	13734	13187
18 Marketer	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
<b>20 Total Loads</b>	<b>24018</b>	<b>24035</b>	<b>22052</b>	<b>22060</b>	<b>24920</b>	<b>27269</b>	<b>26953</b>	<b>26056</b>	<b>23654</b>	<b>22790</b>	<b>22790</b>	<b>22285</b>	<b>22930</b>	<b>24628</b>	<b>24130</b>

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***Exhibit 26***  
***Regional Exports***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional Exports**

**Operating Year 2021**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.8
<b>3 Total Exports to CAN</b>	<b>531</b>	<b>587</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Inland Southwest</b>															
<b>Contracts</b>															
6 BPA-P to Other Entities	50.0	50.0	50.0	50.0	50.0	50.0	0	0	0	0	0	0	0	0	21.0
<b>7 Total Exports to ISW</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21.0</b>
<b>Other Non-Northwest</b>															
<b>Contracts</b>															
8 BPA-P to Other Entities	0	0	0	0	0	0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	29.0
<b>9 Total Exports to NNW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>29.0</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
10 BPA-P to Other Entities	125	125	125	125	125	125	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	110
11 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
12 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
<b>Transfer Services</b>															
13 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
14 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
15 LDWP to LDWP TS PwrP	68.9	103	96.0	77.2	111	84.3	45.1	74.6	85.7	153	129	138	136	133	101
16 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
17 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
18 PG&E to PG&E TS PwrP	59.2	88.9	82.6	66.3	95.1	72.5	38.8	64.1	73.7	132	111	119	117	115	86.6
19 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
20 SMUD to SMUD TS PwrP	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
21 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
22 Intertie Losses	22	28	26	18	23	19	12	17	18	29	25	27	28	31	22
<b>23 Total Exports to PSW</b>	<b>756</b>	<b>948</b>	<b>890</b>	<b>607</b>	<b>791</b>	<b>647</b>	<b>404</b>	<b>567</b>	<b>620</b>	<b>996</b>	<b>869</b>	<b>913</b>	<b>965</b>	<b>1060</b>	<b>771</b>
<b>Total Exports</b>															
24 Federal Entities	709	765	633	633	633	633	607	607	607	607	607	607	607	629	629
25 Investor Owned Utilities	402	510	471	242	347	264	142	234	269	480	404	432	479	573	363
26 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
27 Municipality	169	230	216	179	246	200	131	183	194	316	273	283	287	287	225
<b>28 Total Exports</b>	<b>1320</b>	<b>1561</b>	<b>1373</b>	<b>1098</b>	<b>1277</b>	<b>1137</b>	<b>901</b>	<b>1059</b>	<b>1110</b>	<b>1475</b>	<b>1352</b>	<b>1395</b>	<b>1445</b>	<b>1559</b>	<b>1268</b>



**Regional Exports**

**Operating Year 2022**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.8
<b>3 Total Exports to CAN</b>	<b>531</b>	<b>587</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Other Non-Northwest</b>															
<b>Contracts</b>															
6 BPA-P to Other Entities	50.0	50.0	50.0	50.0	50.0	50.0	0	0	0	0	0	0	0	0	21.0
<b>7 Total Exports to NNW</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21.0</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
8 BPA-P to Other Entities	100.0	100.0	100.0	100.0	100.0	100.0	0	0	0	0	0	0	0	0	41.9
9 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
10 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
<b>Transfer Services</b>															
11 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
12 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
13 LDWP to LDWP TS PwrP	68.9	103	96.0	77.2	111	84.3	45.1	74.6	85.7	153	129	138	136	133	101
14 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
15 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
16 PG&E to PG&E TS PwrP	59.2	88.9	82.6	66.3	95.1	72.5	38.8	64.1	73.7	132	111	119	117	115	86.6
17 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
18 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
19 Intertie Losses	20	26	24	16	21	17	7	12	14	25	21	23	24	26	19
<b>20 Total Exports to PSW</b>	<b>684</b>	<b>876</b>	<b>819</b>	<b>539</b>	<b>716</b>	<b>571</b>	<b>250</b>	<b>414</b>	<b>476</b>	<b>851</b>	<b>724</b>	<b>774</b>	<b>818</b>	<b>908</b>	<b>655</b>
<b>Total Exports</b>															
21 Federal Entities	684	740	607	607	607	607	454	454	454	454	454	454	454	476	529
22 Investor Owned Utilities	402	510	471	242	347	264	142	234	269	480	404	432	479	573	363
23 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
24 Municipality	124	185	172	138	198	151	80.9	134	154	275	232	248	245	239	181
<b>25 Total Exports</b>	<b>1249</b>	<b>1491</b>	<b>1303</b>	<b>1032</b>	<b>1204</b>	<b>1062</b>	<b>698</b>	<b>857</b>	<b>917</b>	<b>1281</b>	<b>1158</b>	<b>1207</b>	<b>1249</b>	<b>1358</b>	<b>1124</b>

**Regional Exports**

**Operating Year 2023**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.8
<b>3 Total Exports to CAN</b>	<b>531</b>	<b>587</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
6 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
7 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
<b>Transfer Services</b>															
8 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
9 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
10 LDWP to LDWP TS PwrP	68.9	103	96.0	77.2	111	84.3	45.1	74.6	85.7	153	129	138	136	133	101
11 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
12 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
13 PG&E to PG&E TS PwrP	59.2	88.9	82.6	66.3	95.1	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	58.1
14 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
15 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
16 Intertie Losses	17	23	21	13	18	13	7	11	13	23	20	21	22	25	17
<b>17 Total Exports to PSW</b>	<b>581</b>	<b>773</b>	<b>716</b>	<b>436</b>	<b>613</b>	<b>432</b>	<b>231</b>	<b>382</b>	<b>440</b>	<b>786</b>	<b>670</b>	<b>716</b>	<b>760</b>	<b>852</b>	<b>583</b>
<b>Total Exports</b>															
18 Federal Entities	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
19 Investor Owned Utilities	402	510	471	242	347	230	123	204	234	418	351	376	423	519	334
20 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
21 Municipality	124	185	172	138	198	151	80.9	134	154	275	232	248	245	239	181
<b>22 Total Exports</b>	<b>1096</b>	<b>1338</b>	<b>1150</b>	<b>879</b>	<b>1051</b>	<b>875</b>	<b>680</b>	<b>826</b>	<b>882</b>	<b>1219</b>	<b>1105</b>	<b>1150</b>	<b>1194</b>	<b>1304</b>	<b>1032</b>

## Regional Exports

### Operating Year 2024

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	439	454	454	454	454	454	454	453
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.7
<b>3 Total Exports to CAN</b>	<b>531</b>	<b>587</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>439</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>464</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
6 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.25
7 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.0
<b>Transfer Services</b>															
8 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
9 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
10 LDWP to LDWP TS PwrP	68.9	103	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	85.0
11 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
12 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.0
13 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
14 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
15 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.1
16 Intertie Losses	16	21	19	11	16	12	7	11	12	22	19	20	21	24	16
<b>17 Total Exports to PSW</b>	<b>552</b>	<b>729</b>	<b>659</b>	<b>390</b>	<b>548</b>	<b>417</b>	<b>223</b>	<b>369</b>	<b>425</b>	<b>760</b>	<b>647</b>	<b>692</b>	<b>737</b>	<b>829</b>	<b>553</b>
<b>Total Exports</b>															
18 Federal Entities	531	587	454	454	454	454	454	439	454	454	454	454	454	476	464
19 Investor Owned Utilities	374	467	432	211	301	230	123	204	234	418	351	376	423	519	321
20 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
21 Municipality	124	185	156	126	180	137	73.3	121	139	249	210	225	222	217	165
<b>22 Total Exports</b>	<b>1068</b>	<b>1295</b>	<b>1095</b>	<b>834</b>	<b>987</b>	<b>861</b>	<b>672</b>	<b>798</b>	<b>868</b>	<b>1193</b>	<b>1084</b>	<b>1127</b>	<b>1171</b>	<b>1281</b>	<b>1001</b>

**Regional Exports**

**Operating Year 2025**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.8
<b>3 Total Exports to CAN</b>	<b>531</b>	<b>587</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
6 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
7 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
<b>Transfer Services</b>															
8 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
9 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
10 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
11 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
12 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
13 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
14 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
15 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
16 Intertie Losses	16	21	19	11	16	12	7	11	12	22	19	20	21	24	16
<b>17 Total Exports to PSW</b>	<b>541</b>	<b>711</b>	<b>659</b>	<b>390</b>	<b>548</b>	<b>417</b>	<b>223</b>	<b>369</b>	<b>425</b>	<b>760</b>	<b>647</b>	<b>692</b>	<b>737</b>	<b>829</b>	<b>552</b>
<b>Total Exports</b>															
18 Federal Entities	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
19 Investor Owned Utilities	374	467	432	211	301	230	123	204	234	418	351	376	423	519	322
20 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
21 Municipality	112	168	156	126	180	137	73.3	121	139	249	210	225	222	217	164
<b>22 Total Exports</b>	<b>1057</b>	<b>1278</b>	<b>1095</b>	<b>834</b>	<b>987</b>	<b>861</b>	<b>672</b>	<b>814</b>	<b>868</b>	<b>1193</b>	<b>1084</b>	<b>1127</b>	<b>1171</b>	<b>1281</b>	<b>1002</b>

## Regional Exports

### Operating Year 2026

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.8
<b>3 Total Exports to CAN</b>	<b>531</b>	<b>587</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
6 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
7 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
<b>Transfer Services</b>															
8 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
9 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
10 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
11 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
12 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
13 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
14 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
15 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
16 Intertie Losses	16	21	19	11	16	12	7	11	12	22	19	20	21	24	16
<b>17 Total Exports to PSW</b>	<b>541</b>	<b>711</b>	<b>659</b>	<b>390</b>	<b>548</b>	<b>417</b>	<b>223</b>	<b>369</b>	<b>425</b>	<b>760</b>	<b>647</b>	<b>692</b>	<b>737</b>	<b>829</b>	<b>552</b>
<b>Total Exports</b>															
18 Federal Entities	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
19 Investor Owned Utilities	374	467	432	211	301	230	123	204	234	418	351	376	423	519	322
20 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
21 Municipality	112	168	156	126	180	137	73.3	121	139	249	210	225	222	217	164
<b>22 Total Exports</b>	<b>1057</b>	<b>1278</b>	<b>1095</b>	<b>834</b>	<b>987</b>	<b>861</b>	<b>672</b>	<b>814</b>	<b>868</b>	<b>1193</b>	<b>1084</b>	<b>1127</b>	<b>1171</b>	<b>1281</b>	<b>1002</b>

**Regional Exports**

**Operating Year 2027**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.8
<b>3 Total Exports to CAN</b>	<b>531</b>	<b>587</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
6 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
7 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
<b>Transfer Services</b>															
8 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
9 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
10 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
11 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
12 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
13 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
14 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
15 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
16 Intertie Losses	16	21	19	11	16	12	7	11	12	22	19	20	21	24	16
<b>17 Total Exports to PSW</b>	<b>541</b>	<b>711</b>	<b>659</b>	<b>390</b>	<b>548</b>	<b>417</b>	<b>223</b>	<b>369</b>	<b>425</b>	<b>760</b>	<b>647</b>	<b>692</b>	<b>737</b>	<b>829</b>	<b>552</b>
<b>Total Exports</b>															
18 Federal Entities	531	587	454	454	454	454	454	454	454	454	454	454	454	476	465
19 Investor Owned Utilities	374	467	432	211	301	230	123	204	234	418	351	376	423	519	322
20 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
21 Municipality	112	168	156	126	180	137	73.3	121	139	249	210	225	222	217	164
<b>22 Total Exports</b>	<b>1057</b>	<b>1278</b>	<b>1095</b>	<b>834</b>	<b>987</b>	<b>861</b>	<b>672</b>	<b>814</b>	<b>868</b>	<b>1193</b>	<b>1084</b>	<b>1127</b>	<b>1171</b>	<b>1281</b>	<b>1002</b>

## Regional Exports

### Operating Year 2028

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	433	474	454	454	454	454	454	454	454	472	436	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.7
<b>3 Total Exports to CAN</b>	<b>495</b>	<b>620</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>472</b>	<b>436</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
6 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.25
7 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.0
<b>Transfer Services</b>															
8 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
9 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
10 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
11 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
12 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.0
13 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
14 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
15 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.1
16 Intertie Losses	16	21	19	11	16	12	7	11	12	22	19	20	21	24	16
<b>17 Total Exports to PSW</b>	<b>541</b>	<b>711</b>	<b>659</b>	<b>390</b>	<b>548</b>	<b>417</b>	<b>223</b>	<b>369</b>	<b>425</b>	<b>760</b>	<b>647</b>	<b>692</b>	<b>737</b>	<b>829</b>	<b>552</b>
<b>Total Exports</b>															
18 Federal Entities	495	620	454	454	454	454	454	454	454	472	436	454	454	476	465
19 Investor Owned Utilities	374	467	432	211	301	230	123	204	234	418	351	376	423	519	321
20 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
21 Municipality	112	168	156	126	180	137	73.3	121	139	249	210	225	222	217	164
<b>22 Total Exports</b>	<b>1020</b>	<b>1312</b>	<b>1095</b>	<b>834</b>	<b>987</b>	<b>861</b>	<b>672</b>	<b>814</b>	<b>868</b>	<b>1211</b>	<b>1065</b>	<b>1127</b>	<b>1171</b>	<b>1281</b>	<b>1002</b>

**Regional Exports**

**Operating Year 2029**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	452	456	454	454	454	454	454	454	454	436	472	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.8
<b>3 Total Exports to CAN</b>	<b>513</b>	<b>603</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>436</b>	<b>472</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
6 MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	0	0	0	0	1.97
7 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
<b>Transfer Services</b>															
8 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
9 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
10 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
11 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
12 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
13 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
14 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
15 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
16 Intertie Losses	16	21	19	11	16	12	7	11	12	22	19	20	21	24	16
<b>17 Total Exports to PSW</b>	<b>541</b>	<b>711</b>	<b>659</b>	<b>390</b>	<b>548</b>	<b>417</b>	<b>223</b>	<b>369</b>	<b>425</b>	<b>760</b>	<b>639</b>	<b>684</b>	<b>729</b>	<b>821</b>	<b>550</b>
<b>Total Exports</b>															
18 Federal Entities	513	603	454	454	454	454	454	454	454	436	472	454	454	476	465
19 Investor Owned Utilities	374	467	432	211	301	230	123	204	234	418	351	376	423	519	322
20 Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	60.1	64.3	63.6	62.2	48.9
21 Municipality	112	168	156	126	180	137	73.3	121	139	249	210	225	222	217	164
<b>22 Total Exports</b>	<b>1039</b>	<b>1294</b>	<b>1095</b>	<b>834</b>	<b>987</b>	<b>861</b>	<b>672</b>	<b>814</b>	<b>868</b>	<b>1175</b>	<b>1094</b>	<b>1119</b>	<b>1163</b>	<b>1273</b>	<b>1000</b>



**Regional Exports**

**Operating Year 2030**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BPA-P to BCHP Trty CEA	452	456	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	61.3	147	0	0	0	0	0	0	0	0	0	0	0	21.4	10.8
<b>3 Total Exports to CAN</b>	<b>513</b>	<b>603</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>454</b>	<b>476</b>	<b>465</b>
<b>East Continental Divide</b>															
<b>Contracts</b>															
4 AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>5 Total Exports to ECD</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
6 PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
<b>Transfer Services</b>															
7 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
8 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
9 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
10 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
11 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
12 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
13 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
14 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
15 Intertie Losses	16	20	19	11	16	12	7	11	12	22	19	20	21	24	16
<b>16 Total Exports to PSW</b>	<b>532</b>	<b>703</b>	<b>651</b>	<b>382</b>	<b>548</b>	<b>417</b>	<b>223</b>	<b>369</b>	<b>425</b>	<b>760</b>	<b>639</b>	<b>684</b>	<b>729</b>	<b>821</b>	<b>548</b>
<b>Total Exports</b>															
17 Federal Entities	513	603	454	454	454	454	454	454	454	454	454	454	454	476	465
18 Investor Owned Utilities	374	467	432	211	301	230	123	204	234	418	351	376	423	519	322
19 Marketer	32.1	48.2	44.8	36.0	51.5	39.3	21.0	34.8	40.0	71.5	60.1	64.3	63.6	62.2	47.0
20 Municipality	112	168	156	126	180	137	73.3	121	139	249	210	225	222	217	164
<b>21 Total Exports</b>	<b>1031</b>	<b>1287</b>	<b>1087</b>	<b>826</b>	<b>987</b>	<b>861</b>	<b>672</b>	<b>814</b>	<b>868</b>	<b>1193</b>	<b>1076</b>	<b>1119</b>	<b>1163</b>	<b>1273</b>	<b>998</b>

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***Exhibit 27***  
***Regional Imports***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional: Imports  
Operating Year 2021**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	542	542	485	451	442	477	449	463	437	417	417	465	598	661	491
<b>6 Total Imports From ISW</b>	<b>542</b>	<b>542</b>	<b>485</b>	<b>451</b>	<b>442</b>	<b>477</b>	<b>449</b>	<b>463</b>	<b>437</b>	<b>417</b>	<b>417</b>	<b>465</b>	<b>598</b>	<b>661</b>	<b>491</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 Other Entities to Other Entities	64.4	63.5	63.9	115	113	114	113	114	115	64.4	64.4	63.4	64.4	0	83.5
8 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>9 Total Imports From PSW</b>	<b>64.4</b>	<b>63.5</b>	<b>63.9</b>	<b>115</b>	<b>294</b>	<b>349</b>	<b>201</b>	<b>178</b>	<b>115</b>	<b>64.4</b>	<b>64.4</b>	<b>63.4</b>	<b>64.4</b>	<b>0</b>	<b>131</b>
<b>Total Imports</b>															
10 Federal Entities	65.4	64.5	64.9	116	114	115	114	115	116	65.4	65.4	64.4	65.4	1.00	84.5
11 Investor Owned Utilities	544	544	487	453	626	715	539	529	439	419	419	467	600	663	540
12 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
<b>13 Total Imports</b>	<b>627</b>	<b>626</b>	<b>565</b>	<b>587</b>	<b>775</b>	<b>875</b>	<b>712</b>	<b>711</b>	<b>614</b>	<b>511</b>	<b>511</b>	<b>557</b>	<b>701</b>	<b>688</b>	<b>660</b>

**Regional: Imports  
Operating Year 2022**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	548	548	488	454	445	480	451	466	440	419	419	468	605	667	494
<b>6 Total Imports From ISW</b>	<b>548</b>	<b>548</b>	<b>488</b>	<b>454</b>	<b>445</b>	<b>480</b>	<b>451</b>	<b>466</b>	<b>440</b>	<b>419</b>	<b>419</b>	<b>468</b>	<b>605</b>	<b>667</b>	<b>494</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	550	550	490	456	628	718	542	532	442	421	421	470	606	669	544
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
<b>12 Total Imports</b>	<b>569</b>	<b>569</b>	<b>504</b>	<b>476</b>	<b>664</b>	<b>764</b>	<b>601</b>	<b>600</b>	<b>502</b>	<b>449</b>	<b>449</b>	<b>497</b>	<b>643</b>	<b>694</b>	<b>580</b>

**Regional: Imports  
Operating Year 2023**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	554	554	491	457	447	483	453	468	443	422	422	471	611	674	498
<b>6 Total Imports From ISW</b>	<b>554</b>	<b>554</b>	<b>491</b>	<b>457</b>	<b>447</b>	<b>483</b>	<b>453</b>	<b>468</b>	<b>443</b>	<b>422</b>	<b>422</b>	<b>471</b>	<b>611</b>	<b>674</b>	<b>498</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	556	555	493	459	631	721	544	534	445	424	424	473	612	677	548
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
<b>12 Total Imports</b>	<b>575</b>	<b>574</b>	<b>507</b>	<b>479</b>	<b>667</b>	<b>767</b>	<b>603</b>	<b>602</b>	<b>505</b>	<b>452</b>	<b>452</b>	<b>500</b>	<b>649</b>	<b>702</b>	<b>584</b>

**Regional: Imports  
Operating Year 2024**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	560	559	494	460	449	485	456	471	445	425	425	474	617	681	502
<b>6 Total Imports From ISW</b>	<b>560</b>	<b>559</b>	<b>494</b>	<b>460</b>	<b>449</b>	<b>485</b>	<b>456</b>	<b>471</b>	<b>445</b>	<b>425</b>	<b>425</b>	<b>474</b>	<b>617</b>	<b>681</b>	<b>502</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	561	561	496	462	633	724	546	537	448	427	427	476	619	683	551
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
<b>12 Total Imports</b>	<b>580</b>	<b>580</b>	<b>510</b>	<b>482</b>	<b>669</b>	<b>770</b>	<b>605</b>	<b>605</b>	<b>508</b>	<b>455</b>	<b>455</b>	<b>503</b>	<b>656</b>	<b>708</b>	<b>588</b>

**Regional: Imports  
Operating Year 2025**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	565	565	498	462	452	488	458	473	448	428	428	477	624	688	506
<b>6 Total Imports From ISW</b>	<b>565</b>	<b>565</b>	<b>498</b>	<b>462</b>	<b>452</b>	<b>488</b>	<b>458</b>	<b>473</b>	<b>448</b>	<b>428</b>	<b>428</b>	<b>477</b>	<b>624</b>	<b>688</b>	<b>506</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	567	567	500	464	635	727	549	540	451	430	430	479	626	690	555
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
<b>12 Total Imports</b>	<b>586</b>	<b>586</b>	<b>514</b>	<b>484</b>	<b>671</b>	<b>773</b>	<b>608</b>	<b>608</b>	<b>511</b>	<b>458</b>	<b>458</b>	<b>506</b>	<b>663</b>	<b>715</b>	<b>591</b>



**Regional: Imports  
Operating Year 2026**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	571	571	501	466	454	491	461	476	451	430	430	480	631	695	509
<b>6 Total Imports From ISW</b>	<b>571</b>	<b>571</b>	<b>501</b>	<b>466</b>	<b>454</b>	<b>491</b>	<b>461</b>	<b>476</b>	<b>451</b>	<b>430</b>	<b>430</b>	<b>480</b>	<b>631</b>	<b>695</b>	<b>509</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	573	573	503	468	638	729	551	542	454	433	433	482	632	697	559
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
<b>12 Total Imports</b>	<b>592</b>	<b>592</b>	<b>517</b>	<b>488</b>	<b>674</b>	<b>775</b>	<b>610</b>	<b>610</b>	<b>514</b>	<b>461</b>	<b>461</b>	<b>509</b>	<b>669</b>	<b>722</b>	<b>595</b>

**Regional: Imports  
Operating Year 2027**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	577	577	504	468	457	494	463	479	454	433	433	483	637	702	513
<b>6 Total Imports From ISW</b>	<b>577</b>	<b>577</b>	<b>504</b>	<b>468</b>	<b>457</b>	<b>494</b>	<b>463</b>	<b>479</b>	<b>454</b>	<b>433</b>	<b>433</b>	<b>483</b>	<b>637</b>	<b>702</b>	<b>513</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	579	579	506	470	640	732	554	545	457	436	436	485	639	704	562
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
<b>12 Total Imports</b>	<b>598</b>	<b>598</b>	<b>520</b>	<b>490</b>	<b>676</b>	<b>778</b>	<b>613</b>	<b>613</b>	<b>517</b>	<b>464</b>	<b>464</b>	<b>512</b>	<b>676</b>	<b>729</b>	<b>599</b>

**Regional: Imports  
Operating Year 2028**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	583	583	507	472	459	496	466	481	457	436	436	487	644	710	517
<b>6 Total Imports From ISW</b>	<b>583</b>	<b>583</b>	<b>507</b>	<b>472</b>	<b>459</b>	<b>496</b>	<b>466</b>	<b>481</b>	<b>457</b>	<b>436</b>	<b>436</b>	<b>487</b>	<b>644</b>	<b>710</b>	<b>517</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	585	585	509	473	643	735	556	547	460	439	438	489	646	712	566
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
<b>12 Total Imports</b>	<b>604</b>	<b>604</b>	<b>523</b>	<b>493</b>	<b>679</b>	<b>781</b>	<b>615</b>	<b>615</b>	<b>520</b>	<b>467</b>	<b>466</b>	<b>516</b>	<b>683</b>	<b>737</b>	<b>603</b>

**Regional: Imports  
Operating Year 2029**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	589	589	511	474	462	499	468	484	460	439	439	490	650	718	521
<b>6 Total Imports From ISW</b>	<b>589</b>	<b>589</b>	<b>511</b>	<b>474</b>	<b>462</b>	<b>499</b>	<b>468</b>	<b>484</b>	<b>460</b>	<b>439</b>	<b>439</b>	<b>490</b>	<b>650</b>	<b>718</b>	<b>521</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	591	591	513	476	646	737	559	550	463	441	441	492	652	720	570
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
<b>12 Total Imports</b>	<b>610</b>	<b>610</b>	<b>527</b>	<b>496</b>	<b>682</b>	<b>783</b>	<b>618</b>	<b>618</b>	<b>523</b>	<b>469</b>	<b>469</b>	<b>519</b>	<b>689</b>	<b>745</b>	<b>607</b>

**Regional: Imports  
Operating Year 2030**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Canada</b>															
<b>Contracts</b>															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
2 BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3 Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
<b>4 Total Imports From CAN</b>	<b>20.8</b>	<b>20.8</b>	<b>15.8</b>	<b>22.0</b>	<b>38.9</b>	<b>49.3</b>	<b>62.3</b>	<b>70.8</b>	<b>62.7</b>	<b>30.2</b>	<b>30.2</b>	<b>28.9</b>	<b>38.6</b>	<b>27.0</b>	<b>38.8</b>
<b>Inland Southwest</b>															
<b>Transfer Services</b>															
5 RMP to RMP TS PwrP	596	595	514	477	465	502	471	487	463	442	442	493	657	725	525
<b>6 Total Imports From ISW</b>	<b>596</b>	<b>595</b>	<b>514</b>	<b>477</b>	<b>465</b>	<b>502</b>	<b>471</b>	<b>487</b>	<b>463</b>	<b>442</b>	<b>442</b>	<b>493</b>	<b>657</b>	<b>725</b>	<b>525</b>
<b>Pacific Southwest</b>															
<b>Contracts</b>															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
<b>8 Total Imports From PSW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>235</b>	<b>87.4</b>	<b>63.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47.1</b>
<b>Total Imports</b>															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	598	597	516	479	648	740	561	553	466	444	444	495	659	727	574
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
<b>12 Total Imports</b>	<b>617</b>	<b>616</b>	<b>530</b>	<b>499</b>	<b>684</b>	<b>786</b>	<b>620</b>	<b>621</b>	<b>526</b>	<b>472</b>	<b>472</b>	<b>522</b>	<b>696</b>	<b>752</b>	<b>610</b>

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***Exhibit 28***  
***Regional Intra-Regional Transfers***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional: Intra-Regional Transfers**

**Operating Year 2021**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>386</b>	<b>384</b>	<b>368</b>	<b>216</b>	<b>211</b>	<b>209</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>345</b>	<b>345</b>	<b>355</b>	<b>370</b>	<b>341</b>	<b>311</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	214	214	214	96.0	98.4	97.0	0	0	0	0	0	0	0	0	60.2
3 BPA-P to PGE CapS Surp	0	0	0	0	0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	58.1
	0	0	0	0	0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	58.1
4 BPA-P to PPL NSP RIn	5.37	5.36	4.28	4.41	0	0	0	0	0	0	0	0	0	0	1.18
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.74	3.92	3.77	4.01	0	0	0	0	0	0	1.27
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
10 Other Entities to BPA-P	28.9	27.1	27.8	0	0	0	0	0	0	28.9	28.9	26.9	28.9	0	11.7
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	4.12	4.15	4.56	0	0	0	0	0	0	0	0	0	0	0	0.73
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>386</b>	<b>384</b>	<b>368</b>	<b>216</b>	<b>211</b>	<b>209</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>345</b>	<b>345</b>	<b>355</b>	<b>370</b>	<b>341</b>	<b>311</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	229	228	228	110	112	110	213	213	209	209	209	209	209	209	188
18 Investor Owned Utilities	19.4	19.4	18.9	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	13.5
19 Marketer	53.9	52.1	52.8	25.0	25.0	25.0	25.0	25.0	25.0	53.9	53.9	51.9	53.9	25.0	36.7
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>386</b>	<b>384</b>	<b>368</b>	<b>216</b>	<b>211</b>	<b>209</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>345</b>	<b>345</b>	<b>355</b>	<b>370</b>	<b>341</b>	<b>311</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	53.6	51.9	53.0	20.6	16.9	16.9	16.9	16.9	16.9	49.5	49.5	47.5	49.5	20.6	31.5
24 Investor Owned Utilities	33.8	33.8	15.4	13.3	11.3	13.1	213	212	209	211	211	226	233	235	135
25 Marketer	229	228	229	111	113	112	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	74.9
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>386</b>	<b>384</b>	<b>368</b>	<b>216</b>	<b>211</b>	<b>209</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>345</b>	<b>345</b>	<b>355</b>	<b>370</b>	<b>341</b>	<b>311</b>



**Regional: Intra-Regional Transfers**

**Operating Year 2022**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.92	3.77	4.01	0	0	0	0	0	0	1.28
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.20	7.80	10.3	10.3	12.6	13.9	13.8	9.99
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	21.9	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	228	228	211	209	211	213	213	212	209	211	211	226	233	235	218
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>

**Regional: Intra-Regional Transfers**

**Operating Year 2023**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.92	3.77	4.01	0	0	0	0	0	0	1.28
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	228	228	211	209	211	213	213	212	209	211	211	226	233	235	218
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>

**Regional: Intra-Regional Transfers**

**Operating Year 2024**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.77	3.92	4.03	0	0	0	0	0	0	1.29
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.46
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.00
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.65
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	228	228	211	209	211	213	214	212	209	211	211	226	233	235	218
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>

**Regional: Intra-Regional Transfers**  
**Operating Year 2025**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.77	3.92	4.01	0	0	0	0	0	0	1.28
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	228	228	211	209	211	213	214	212	209	211	211	226	233	235	218
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>315</b>	<b>314</b>	<b>308</b>	<b>317</b>	<b>317</b>	<b>328</b>	<b>341</b>	<b>341</b>	<b>321</b>

**Regional: Intra-Regional Transfers**  
**Operating Year 2026**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>205</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	0	0	0	0	0	0	0	0	41.9
	100.0	100.0	100.0	100.0	100.0	100.0	0	0	0	0	0	0	0	0	41.9
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.74	3.92	3.92	4.01	0	0	0	0	0	0	1.28
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.20	7.80	10.3	10.3	12.6	13.9	13.8	9.99
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>205</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	209	209	209	209	213	213	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	94.6
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	21.9	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>205</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	228	228	211	209	211	213	13.5	12.1	8.80	11.3	11.3	25.5	33.4	34.6	102
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>334</b>	<b>334</b>	<b>317</b>	<b>315</b>	<b>313</b>	<b>312</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>205</b>

**Regional: Intra-Regional Transfers**  
**Operating Year 2027**  
**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.74	3.92	3.77	4.01	0	0	0	0	0	0	1.27
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	9.44	9.44	9.44	9.44	13.2	13.4	13.2	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	28.4	28.4	11.2	8.90	11.3	13.1	13.4	12.3	8.80	11.3	11.3	25.5	33.4	34.6	17.7
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>

**Regional: Intra-Regional Transfers**

**Operating Year 2028**

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.92	3.77	4.03	0	0	0	0	0	0	1.29
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.46
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.00
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.65
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	9.44	9.44	9.44	9.44	13.3	13.4	13.2	13.5	9.44	9.44	9.44	9.44	9.44	9.44	10.7
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	28.4	28.4	11.2	8.90	11.5	13.1	13.4	12.3	8.80	11.3	11.3	25.5	33.4	34.6	17.7
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>

**Regional: Intra-Regional Transfers**  
**Operating Year 2029**  
**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.77	3.92	4.01	0	0	0	0	0	0	1.28
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	9.44	9.44	9.44	9.44	13.3	13.2	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	28.4	28.4	11.2	8.90	11.5	13.0	13.5	12.3	8.80	11.3	11.3	25.5	33.4	34.6	17.7
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>



**Regional: Intra-Regional Transfers**

**Operating Year 2030**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Intra-Regional Transfers</b>															
<b>Contracts</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
1 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
2 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to PGE CapS Surp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.77	3.92	4.01	0	0	0	0	0	0	1.28
6 CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
7 GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.20	7.80	10.3	10.3	12.6	13.9	13.8	9.99
8 GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9 NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
12 Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
<b>16 Total Intra-Regional Transfers</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
<b>Intra-Regional Contracts Out</b>															
17 Federal Entities	9.44	9.44	9.44	9.44	13.3	13.2	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	21.9	22.5	25.0	25.0	27.3	28.6	28.5	24.7
<b>22 Total Regional Contracts Out</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>
<b>Intra-Regional Contracts In</b>															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	28.4	28.4	11.2	8.90	11.5	13.0	13.5	12.1	8.80	11.3	11.3	25.5	33.4	34.6	17.7
25 Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
26 Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
<b>28 Total Regional Contracts In</b>	<b>134</b>	<b>134</b>	<b>117</b>	<b>115</b>	<b>113</b>	<b>112</b>	<b>115</b>	<b>114</b>	<b>108</b>	<b>117</b>	<b>117</b>	<b>128</b>	<b>141</b>	<b>141</b>	<b>121</b>

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***Exhibit 29***  
***BPA Sales to Preference and Legacy Customers***

***Monthly Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2021 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3240</b>	<b>3212</b>	<b>2893</b>	<b>2841</b>	<b>3407</b>	<b>3907</b>	<b>3873</b>	<b>3657</b>	<b>3160</b>	<b>3019</b>	<b>3019</b>	<b>2931</b>	<b>3120</b>	<b>3342</b>	<b>3280</b>
4 Cooperative	1928	1913	1644	1537	1829	2131	2088	1985	1705	1657	1657	1686	1871	2022	1839
5 Municipality	512	506	473	479	573	649	664	629	543	501	501	464	475	510	539
6 Public Utility District	682	677	669	712	865	959	953	882	773	737	737	662	655	678	768
7 Federal Entities	118	117	108	114	140	168	168	161	138	124	124	118	119	132	134
<b>8 Slice Block</b>	<b>1182</b>	<b>1182</b>	<b>1126</b>	<b>1191</b>	<b>1392</b>	<b>1598</b>	<b>1591</b>	<b>1459</b>	<b>1346</b>	<b>1250</b>	<b>1250</b>	<b>1211</b>	<b>1187</b>	<b>1243</b>	<b>1314</b>
9 Municipality	275	275	277	269	318	387	383	367	355	314	314	267	258	282	313
10 Public Utility District	907	907	850	922	1074	1211	1208	1092	990	936	936	944	929	960	1002
<b>11 Slice Output from T1 System</b>	<b>1602</b>	<b>1560</b>	<b>1421</b>	<b>1370</b>	<b>1796</b>	<b>1723</b>	<b>1431</b>	<b>1515</b>	<b>1439</b>	<b>1181</b>	<b>1075</b>	<b>1255</b>	<b>1778</b>	<b>1615</b>	<b>1504</b>
12 Municipality	380	370	337	325	426	409	339	359	341	280	255	298	422	383	357
13 Public Utility District	1222	1190	1084	1045	1370	1314	1091	1156	1098	901	820	958	1356	1232	1147
<b>14 Tier 1 Block</b>	<b>385</b>	<b>383</b>	<b>633</b>	<b>526</b>	<b>865</b>	<b>865</b>	<b>950</b>	<b>894</b>	<b>848</b>	<b>417</b>	<b>417</b>	<b>148</b>	<b>21.1</b>	<b>338</b>	<b>572</b>
15 Municipality	342	340	574	476	779	767	832	783	750	375	375	119	0	285	505
16 Public Utility District	43.1	43.1	58.4	49.9	86.1	97.7	118	111	97.3	42.0	42.0	29.6	21.1	52.5	67.0
<b>17 USBR Obligation</b>	<b>305</b>	<b>313</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>244</b>	<b>244</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1928	1913	1644	1537	1829	2131	2088	1985	1705	1657	1657	1686	1871	2022	1839
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	118	117	108	114	140	168	168	161	138	124	124	118	119	132	134
22 Municipality	1508	1490	1661	1549	2097	2211	2219	2138	1990	1470	1445	1148	1154	1461	1713
23 Public Utility District	2854	2817	2661	2728	3394	3582	3369	3241	2959	2616	2535	2594	2962	2923	2984
24 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6725</b>	<b>6662</b>	<b>6348</b>	<b>6048</b>	<b>7488</b>	<b>8119</b>	<b>7867</b>	<b>7554</b>	<b>6869</b>	<b>6123</b>	<b>6017</b>	<b>5885</b>	<b>6470</b>	<b>6952</b>	<b>6861</b>

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2022 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3230</b>	<b>3268</b>	<b>2911</b>	<b>2852</b>	<b>3421</b>	<b>3921</b>	<b>3883</b>	<b>3684</b>	<b>3188</b>	<b>3027</b>	<b>3027</b>	<b>2934</b>	<b>3123</b>	<b>3346</b>	<b>3294</b>
4 Cooperative	1922	1944	1656	1511	1804	2107	2060	1958	1677	1629	1629	1657	1842	1994	1819
5 Municipality	503	511	465	476	571	647	663	628	542	500	500	463	474	509	537
6 Public Utility District	677	685	671	740	893	987	981	926	821	765	765	690	683	706	795
7 Federal Entities	128	129	119	125	152	179	178	172	148	132	132	123	124	137	143
<b>8 Slice Block</b>	<b>1214</b>	<b>1214</b>	<b>1158</b>	<b>1290</b>	<b>1499</b>	<b>1710</b>	<b>1701</b>	<b>1564</b>	<b>1447</b>	<b>1350</b>	<b>1350</b>	<b>1307</b>	<b>1279</b>	<b>1336</b>	<b>1404</b>
9 Municipality	276	276	278	273	322	392	388	371	360	318	318	271	261	286	316
10 Public Utility District	938	938	880	1017	1176	1318	1312	1193	1087	1032	1032	1036	1018	1049	1088
<b>11 Slice Output from T1 System</b>	<b>1510</b>	<b>1524</b>	<b>1319</b>	<b>1369</b>	<b>1797</b>	<b>1723</b>	<b>1431</b>	<b>1515</b>	<b>1440</b>	<b>1180</b>	<b>1075</b>	<b>1417</b>	<b>1923</b>	<b>1612</b>	<b>1516</b>
12 Municipality	358	361	313	325	426	409	339	359	341	280	255	336	456	382	359
13 Public Utility District	1152	1163	1006	1044	1371	1314	1091	1156	1098	900	820	1081	1467	1230	1156
<b>14 Tier 1 Block</b>	<b>380</b>	<b>383</b>	<b>629</b>	<b>525</b>	<b>864</b>	<b>863</b>	<b>948</b>	<b>892</b>	<b>846</b>	<b>416</b>	<b>416</b>	<b>148</b>	<b>20.6</b>	<b>337</b>	<b>571</b>
15 Municipality	337	340	571	476	780	767	833	784	751	375	375	119	0	286	505
16 Public Utility District	42.5	42.5	57.3	48.7	84.5	95.7	116	109	95.5	41.0	41.0	28.8	20.6	51.3	65.7
<b>17 USBR Obligation</b>	<b>315</b>	<b>304</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>244</b>	<b>244</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1922	1944	1656	1511	1804	2107	2060	1958	1677	1629	1629	1657	1842	1994	1819
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	128	129	119	125	152	179	178	172	148	132	132	123	124	137	143
22 Municipality	1475	1489	1628	1550	2099	2215	2224	2142	1994	1473	1448	1189	1191	1463	1718
23 Public Utility District	2810	2828	2614	2850	3525	3715	3501	3383	3101	2738	2658	2836	3189	3037	3105
24 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6661</b>	<b>6705</b>	<b>6292</b>	<b>6156</b>	<b>7607</b>	<b>8242</b>	<b>7985</b>	<b>7684</b>	<b>6998</b>	<b>6229</b>	<b>6124</b>	<b>6144</b>	<b>6710</b>	<b>7045</b>	<b>6974</b>

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2023 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3252</b>	<b>3256</b>	<b>2914</b>	<b>2869</b>	<b>3438</b>	<b>3940</b>	<b>3900</b>	<b>3701</b>	<b>3204</b>	<b>3056</b>	<b>3028</b>	<b>2947</b>	<b>3136</b>	<b>3360</b>	<b>3307</b>
4 Cooperative	1904	1906	1627	1518	1813	2117	2069	1968	1685	1645	1630	1663	1848	2000	1821
5 Municipality	506	506	464	479	574	650	664	629	543	503	498	463	474	510	538
6 Public Utility District	709	710	699	748	901	995	989	934	828	776	770	698	691	714	806
7 Federal Entities	134	134	124	124	151	178	177	171	147	131	131	122	123	136	143
<b>8 Slice Block</b>	<b>1308</b>	<b>1308</b>	<b>1255</b>	<b>1313</b>	<b>1525</b>	<b>1740</b>	<b>1731</b>	<b>1592</b>	<b>1473</b>	<b>1374</b>	<b>1374</b>	<b>1330</b>	<b>1302</b>	<b>1360</b>	<b>1442</b>
9 Municipality	280	280	282	279	329	400	396	379	367	324	324	276	266	292	322
10 Public Utility District	1028	1028	973	1034	1197	1341	1335	1214	1106	1050	1050	1054	1036	1068	1119
<b>11 Slice Output from T1 System</b>	<b>1513</b>	<b>1522</b>	<b>1318</b>	<b>1364</b>	<b>1792</b>	<b>1720</b>	<b>1429</b>	<b>1513</b>	<b>1437</b>	<b>1175</b>	<b>1068</b>	<b>1251</b>	<b>1767</b>	<b>1607</b>	<b>1486</b>
12 Municipality	359	361	313	324	425	408	339	359	341	279	253	297	419	381	352
13 Public Utility District	1154	1161	1005	1041	1367	1312	1090	1154	1096	896	815	955	1348	1226	1134
<b>14 Tier 1 Block</b>	<b>381</b>	<b>381</b>	<b>628</b>	<b>522</b>	<b>851</b>	<b>852</b>	<b>932</b>	<b>876</b>	<b>832</b>	<b>417</b>	<b>414</b>	<b>148</b>	<b>20.6</b>	<b>334</b>	<b>564</b>
15 Municipality	339	339	572	477	781	769	835	785	752	377	374	119	0	286	506
16 Public Utility District	41.6	41.6	56.2	45.4	69.6	82.6	97.2	90.6	80.1	40.0	40.0	28.8	20.6	47.6	58.2
<b>17 USBR Obligation</b>	<b>310</b>	<b>309</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>243</b>	<b>245</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1904	1906	1627	1518	1813	2117	2069	1968	1685	1645	1630	1663	1848	2000	1821
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	134	134	124	124	151	178	177	171	147	131	131	122	123	136	143
22 Municipality	1483	1486	1630	1558	2109	2226	2234	2152	2002	1484	1450	1156	1160	1469	1719
23 Public Utility District	2933	2940	2733	2868	3534	3730	3512	3392	3110	2762	2675	2735	3096	3055	3117
24 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6775</b>	<b>6786</b>	<b>6390</b>	<b>6188</b>	<b>7634</b>	<b>8278</b>	<b>8015</b>	<b>7710</b>	<b>7022</b>	<b>6277</b>	<b>6142</b>	<b>6015</b>	<b>6591</b>	<b>7075</b>	<b>6990</b>

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2024 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3266</b>	<b>3269</b>	<b>2927</b>	<b>2881</b>	<b>3452</b>	<b>3955</b>	<b>3916</b>	<b>3666</b>	<b>3217</b>	<b>3056</b>	<b>3056</b>	<b>2958</b>	<b>3148</b>	<b>3373</b>	<b>3318</b>
4 Cooperative	1910	1912	1633	1522	1817	2121	2074	1938	1689	1641	1641	1665	1850	2003	1822
5 Municipality	506	507	465	479	575	651	665	624	543	501	501	464	475	511	538
6 Public Utility District	717	718	706	756	910	1005	999	937	838	782	782	707	700	723	815
7 Federal Entities	132	133	123	124	151	178	177	168	147	131	131	122	123	136	143
<b>8 Slice Block</b>	<b>1331</b>	<b>1331</b>	<b>1277</b>	<b>1286</b>	<b>1494</b>	<b>1705</b>	<b>1696</b>	<b>1506</b>	<b>1443</b>	<b>1346</b>	<b>1346</b>	<b>1303</b>	<b>1276</b>	<b>1333</b>	<b>1417</b>
9 Municipality	286	286	287	274	323	392	389	359	360	319	319	271	261	287	317
10 Public Utility District	1046	1046	990	1012	1171	1313	1307	1147	1083	1028	1028	1032	1014	1046	1099
<b>11 Slice Output from T1 System</b>	<b>1511</b>	<b>1519</b>	<b>1316</b>	<b>1366</b>	<b>1793</b>	<b>1719</b>	<b>1430</b>	<b>1516</b>	<b>1436</b>	<b>1175</b>	<b>1070</b>	<b>1414</b>	<b>1918</b>	<b>1608</b>	<b>1513</b>
12 Municipality	358	360	312	324	425	408	339	360	341	279	254	335	455	381	359
13 Public Utility District	1153	1159	1004	1042	1367	1311	1091	1157	1095	896	816	1079	1464	1227	1154
<b>14 Tier 1 Block</b>	<b>378</b>	<b>378</b>	<b>621</b>	<b>518</b>	<b>831</b>	<b>834</b>	<b>907</b>	<b>822</b>	<b>811</b>	<b>415</b>	<b>415</b>	<b>148</b>	<b>20.5</b>	<b>329</b>	<b>552</b>
15 Municipality	340	340	573	478	783	770	836	760	753	376	376	119	0	287	506
16 Public Utility District	37.8	37.8	48.4	40.7	48.2	63.8	70.7	62.4	57.9	38.5	38.5	28.8	20.5	42.3	46.7
<b>17 USBR Obligation</b>	<b>310</b>	<b>309</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>244</b>	<b>244</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1910	1912	1633	1522	1817	2121	2074	1938	1689	1641	1641	1665	1850	2003	1822
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	132	133	123	124	151	178	177	168	147	131	131	122	123	136	143
22 Municipality	1490	1493	1637	1554	2105	2221	2229	2102	1997	1475	1450	1190	1191	1465	1720
23 Public Utility District	2953	2960	2748	2852	3497	3692	3468	3303	3073	2745	2665	2847	3198	3038	3115
24 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6808</b>	<b>6818</b>	<b>6416</b>	<b>6172</b>	<b>7597</b>	<b>8239</b>	<b>7971</b>	<b>7539</b>	<b>6984</b>	<b>6248</b>	<b>6143</b>	<b>6163</b>	<b>6727</b>	<b>7057</b>	<b>6989</b>

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2025 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3278</b>	<b>3281</b>	<b>2938</b>	<b>2897</b>	<b>3470</b>	<b>3974</b>	<b>3934</b>	<b>3721</b>	<b>3214</b>	<b>3072</b>	<b>3072</b>	<b>2971</b>	<b>3162</b>	<b>3387</b>	<b>3334</b>
4 Cooperative	1913	1914	1634	1528	1824	2129	2082	1982	1696	1648	1648	1670	1855	2009	1831
5 Municipality	507	508	465	481	576	653	667	631	545	503	503	465	476	512	540
6 Public Utility District	726	727	715	764	918	1012	1006	935	825	789	789	713	706	729	819
7 Federal Entities	132	133	123	125	152	179	179	172	148	132	132	124	124	137	144
<b>8 Slice Block</b>	<b>1305</b>	<b>1305</b>	<b>1251</b>	<b>1308</b>	<b>1520</b>	<b>1734</b>	<b>1725</b>	<b>1587</b>	<b>1468</b>	<b>1370</b>	<b>1370</b>	<b>1326</b>	<b>1298</b>	<b>1355</b>	<b>1437</b>
9 Municipality	281	281	282	279	328	399	396	379	366	324	324	276	266	292	322
10 Public Utility District	1024	1024	969	1030	1192	1335	1330	1208	1101	1046	1046	1050	1032	1064	1115
<b>11 Slice Output from T1 System</b>	<b>1511</b>	<b>1519</b>	<b>1314</b>	<b>1367</b>	<b>1793</b>	<b>1719</b>	<b>1430</b>	<b>1513</b>	<b>1436</b>	<b>1171</b>	<b>1070</b>	<b>1246</b>	<b>1764</b>	<b>1602</b>	<b>1485</b>
12 Municipality	358	360	312	324	425	408	339	359	341	278	254	296	418	380	352
13 Public Utility District	1153	1159	1003	1043	1367	1311	1091	1154	1095	893	816	951	1346	1222	1133
<b>14 Tier 1 Block</b>	<b>373</b>	<b>373</b>	<b>611</b>	<b>517</b>	<b>827</b>	<b>830</b>	<b>902</b>	<b>847</b>	<b>807</b>	<b>414</b>	<b>414</b>	<b>148</b>	<b>20.5</b>	<b>328</b>	<b>550</b>
15 Municipality	340	340	574	476	780	768	834	785	751	375	375	119	0	286	506
16 Public Utility District	32.4	32.4	37.1	40.2	46.3	62.1	68.4	62.4	55.9	38.3	38.3	28.7	20.5	41.7	44.4
<b>17 USBR Obligation</b>	<b>310</b>	<b>309</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>244</b>	<b>244</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1913	1914	1634	1528	1824	2129	2082	1982	1696	1648	1648	1670	1855	2009	1831
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	132	133	123	125	152	179	179	172	148	132	132	124	124	137	144
22 Municipality	1486	1489	1633	1560	2110	2228	2236	2153	2003	1480	1456	1156	1161	1470	1720
23 Public Utility District	2935	2942	2724	2877	3523	3721	3495	3360	3077	2766	2689	2742	3104	3056	3111
24 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6788</b>	<b>6799</b>	<b>6390</b>	<b>6210</b>	<b>7637</b>	<b>8283</b>	<b>8014</b>	<b>7696</b>	<b>7002</b>	<b>6282</b>	<b>6182</b>	<b>6030</b>	<b>6609</b>	<b>7087</b>	<b>6996</b>



**BPA Sales to Preference and Legacy Customers**

**Operating Year 2026 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3309</b>	<b>3280</b>	<b>2951</b>	<b>2912</b>	<b>3486</b>	<b>3991</b>	<b>3951</b>	<b>3753</b>	<b>3248</b>	<b>3086</b>	<b>3086</b>	<b>2983</b>	<b>3174</b>	<b>3400</b>	<b>3351</b>
4 Cooperative	1927	1911	1639	1534	1831	2137	2090	1990	1702	1654	1654	1673	1859	2013	1837
5 Municipality	512	506	466	480	576	652	667	631	544	502	502	464	475	511	540
6 Public Utility District	735	729	721	773	927	1022	1015	960	853	798	798	722	715	738	831
7 Federal Entities	134	133	124	125	152	180	179	172	149	132	132	124	125	137	144
<b>8 Slice Block</b>	<b>1327</b>	<b>1327</b>	<b>1273</b>	<b>1280</b>	<b>1487</b>	<b>1697</b>	<b>1688</b>	<b>1553</b>	<b>1436</b>	<b>1340</b>	<b>1340</b>	<b>1297</b>	<b>1270</b>	<b>1326</b>	<b>1414</b>
9 Municipality	286	286	287	273	321	391	388	371	359	317	317	270	260	286	317
10 Public Utility District	1042	1042	986	1007	1166	1306	1301	1182	1077	1023	1023	1027	1009	1041	1097
<b>11 Slice Output from T1 System</b>	<b>1512</b>	<b>1516</b>	<b>1316</b>	<b>1367</b>	<b>1791</b>	<b>1720</b>	<b>1430</b>	<b>1513</b>	<b>1436</b>	<b>1175</b>	<b>1070</b>	<b>1413</b>	<b>1920</b>	<b>1608</b>	<b>1512</b>
12 Municipality	359	360	312	324	425	408	339	359	341	279	254	335	455	381	359
13 Public Utility District	1154	1157	1004	1043	1367	1312	1091	1154	1095	896	816	1078	1464	1227	1154
<b>14 Tier 1 Block</b>	<b>372</b>	<b>370</b>	<b>608</b>	<b>515</b>	<b>825</b>	<b>829</b>	<b>900</b>	<b>845</b>	<b>806</b>	<b>413</b>	<b>413</b>	<b>147</b>	<b>20.4</b>	<b>327</b>	<b>549</b>
15 Municipality	340	338	572	475	779	767	832	783	750	375	375	119	0	285	505
16 Public Utility District	31.8	31.8	36.1	40.1	46.2	62.0	68.2	62.3	55.8	38.2	38.2	28.6	20.4	41.7	44.2
<b>17 USBR Obligation</b>	<b>305</b>	<b>313</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>244</b>	<b>244</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1927	1911	1639	1534	1831	2137	2090	1990	1702	1654	1654	1673	1859	2013	1837
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	134	133	124	125	152	180	179	172	149	132	132	124	125	137	144
22 Municipality	1497	1490	1638	1552	2101	2218	2226	2144	1993	1472	1447	1188	1191	1464	1720
23 Public Utility District	2962	2959	2747	2864	3506	3702	3475	3358	3082	2755	2675	2856	3209	3047	3126
24 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6838</b>	<b>6818</b>	<b>6424</b>	<b>6195</b>	<b>7617</b>	<b>8262</b>	<b>7992</b>	<b>7692</b>	<b>7002</b>	<b>6270</b>	<b>6165</b>	<b>6180</b>	<b>6749</b>	<b>7076</b>	<b>7017</b>

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2027 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3321</b>	<b>3292</b>	<b>2962</b>	<b>2930</b>	<b>3506</b>	<b>4012</b>	<b>3972</b>	<b>3774</b>	<b>3267</b>	<b>3105</b>	<b>3105</b>	<b>3000</b>	<b>3191</b>	<b>3418</b>	<b>3369</b>
4 Cooperative	1931	1915	1642	1544	1842	2148	2101	2002	1713	1664	1664	1681	1868	2022	1846
5 Municipality	511	506	466	481	578	655	669	633	546	503	503	466	477	513	541
6 Public Utility District	744	738	730	780	934	1029	1022	966	860	805	805	729	722	745	838
7 Federal Entities	134	133	124	126	153	180	179	173	149	133	133	124	125	138	145
<b>8 Slice Block</b>	<b>1299</b>	<b>1299</b>	<b>1246</b>	<b>1306</b>	<b>1517</b>	<b>1731</b>	<b>1722</b>	<b>1584</b>	<b>1465</b>	<b>1367</b>	<b>1367</b>	<b>1323</b>	<b>1295</b>	<b>1353</b>	<b>1434</b>
9 Municipality	280	280	281	279	328	399	396	378	366	324	324	275	266	292	322
10 Public Utility District	1019	1019	964	1028	1189	1332	1327	1206	1099	1043	1043	1048	1029	1061	1112
<b>11 Slice Output from T1 System</b>	<b>1512</b>	<b>1516</b>	<b>1316</b>	<b>1367</b>	<b>1791</b>	<b>1720</b>	<b>1427</b>	<b>1509</b>	<b>1433</b>	<b>1164</b>	<b>1064</b>	<b>1239</b>	<b>1759</b>	<b>1596</b>	<b>1482</b>
12 Municipality	359	360	312	324	425	408	338	358	340	276	252	294	417	378	351
13 Public Utility District	1154	1157	1004	1043	1367	1312	1088	1151	1093	888	812	945	1342	1217	1130
<b>14 Tier 1 Block</b>	<b>372</b>	<b>369</b>	<b>607</b>	<b>516</b>	<b>825</b>	<b>829</b>	<b>900</b>	<b>846</b>	<b>806</b>	<b>413</b>	<b>413</b>	<b>147</b>	<b>20.4</b>	<b>327</b>	<b>549</b>
15 Municipality	340	338	571	475	779	767	832	783	750	375	375	119	0	285	505
16 Public Utility District	31.8	31.8	36.1	40.2	46.5	62.2	68.6	62.6	56.1	38.2	38.2	28.6	20.4	41.7	44.4
<b>17 USBR Obligation</b>	<b>305</b>	<b>313</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>244</b>	<b>244</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1931	1915	1642	1544	1842	2148	2101	2002	1713	1664	1664	1681	1868	2022	1846
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	134	133	124	126	153	180	179	173	149	133	133	124	125	138	145
22 Municipality	1489	1482	1630	1560	2110	2228	2235	2152	2001	1478	1454	1154	1160	1469	1719
23 Public Utility District	2949	2946	2734	2890	3536	3735	3506	3386	3108	2774	2698	2750	3114	3065	3124
24 USBR	305	313	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6821</b>	<b>6801</b>	<b>6406</b>	<b>6240</b>	<b>7667</b>	<b>8318</b>	<b>8044</b>	<b>7741</b>	<b>7048</b>	<b>6305</b>	<b>6205</b>	<b>6048</b>	<b>6631</b>	<b>7108</b>	<b>7024</b>

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2028 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3303</b>	<b>3343</b>	<b>2979</b>	<b>2945</b>	<b>3523</b>	<b>4030</b>	<b>3991</b>	<b>3741</b>	<b>3285</b>	<b>3136</b>	<b>3108</b>	<b>3013</b>	<b>3205</b>	<b>3432</b>	<b>3382</b>
4 Cooperative	1920	1942	1650	1549	1848	2155	2111	1974	1721	1681	1664	1687	1874	2029	1851
5 Municipality	506	514	467	483	580	657	671	629	547	507	502	467	478	515	542
6 Public Utility District	744	752	737	787	942	1037	1030	968	867	815	809	735	727	750	845
7 Federal Entities	134	135	125	126	153	180	180	170	149	133	132	124	125	138	145
<b>8 Slice Block</b>	<b>1325</b>	<b>1325</b>	<b>1271</b>	<b>1282</b>	<b>1489</b>	<b>1699</b>	<b>1691</b>	<b>1501</b>	<b>1438</b>	<b>1342</b>	<b>1342</b>	<b>1299</b>	<b>1272</b>	<b>1328</b>	<b>1412</b>
9 Municipality	286	286	287	274	322	392	389	359	360	318	318	270	261	287	317
10 Public Utility District	1039	1039	984	1008	1167	1307	1302	1143	1078	1024	1024	1028	1010	1042	1095
<b>11 Slice Output from T1 System</b>	<b>1513</b>	<b>1508</b>	<b>1311</b>	<b>1363</b>	<b>1788</b>	<b>1716</b>	<b>1427</b>	<b>1509</b>	<b>1433</b>	<b>1164</b>	<b>1066</b>	<b>1408</b>	<b>1913</b>	<b>1601</b>	<b>1508</b>
12 Municipality	359	358	311	323	424	407	338	358	340	276	253	334	454	380	358
13 Public Utility District	1154	1150	1000	1039	1364	1309	1088	1151	1093	888	813	1074	1460	1221	1150
<b>14 Tier 1 Block</b>	<b>369</b>	<b>372</b>	<b>607</b>	<b>516</b>	<b>826</b>	<b>830</b>	<b>902</b>	<b>818</b>	<b>807</b>	<b>415</b>	<b>412</b>	<b>148</b>	<b>20.5</b>	<b>327</b>	<b>548</b>
15 Municipality	337	340	571	476	779	767	833	756	750	376	373	119	0	285	504
16 Public Utility District	31.8	31.8	36.2	40.3	47.1	62.7	69.3	61.1	56.7	38.3	38.3	28.7	20.5	41.9	44.5
<b>17 USBR Obligation</b>	<b>315</b>	<b>304</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>243</b>	<b>245</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1920	1942	1650	1549	1848	2155	2111	1974	1721	1681	1664	1687	1874	2029	1851
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	134	135	125	126	153	180	180	170	149	133	132	124	125	138	145
22 Municipality	1487	1497	1636	1555	2105	2222	2231	2102	1997	1478	1446	1191	1193	1467	1720
23 Public Utility District	2969	2974	2757	2876	3519	3716	3490	3323	3096	2765	2684	2866	3218	3055	3134
24 USBR	315	304	263	108	15.3	14.5	10.4	16.3	64.9	243	245	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6836</b>	<b>6864</b>	<b>6444</b>	<b>6226</b>	<b>7653</b>	<b>8301</b>	<b>8033</b>	<b>7598</b>	<b>7040</b>	<b>6312</b>	<b>6184</b>	<b>6207</b>	<b>6775</b>	<b>7103</b>	<b>7040</b>

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2029 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3335</b>	<b>3339</b>	<b>2991</b>	<b>2964</b>	<b>3542</b>	<b>4050</b>	<b>4009</b>	<b>3796</b>	<b>3280</b>	<b>3121</b>	<b>3150</b>	<b>3026</b>	<b>3219</b>	<b>3445</b>	<b>3398</b>
4 Cooperative	1937	1939	1656	1559	1859	2167	2120	2022	1729	1673	1689	1694	1881	2036	1862
5 Municipality	511	512	469	486	583	661	675	638	550	504	510	470	482	518	545
6 Public Utility District	752	753	741	793	947	1042	1035	963	852	812	818	738	730	753	846
7 Federal Entities	134	135	125	126	153	181	180	173	149	133	133	124	125	138	145
<b>8 Slice Block</b>	<b>1301</b>	<b>1301</b>	<b>1247</b>	<b>1299</b>	<b>1508</b>	<b>1721</b>	<b>1712</b>	<b>1575</b>	<b>1457</b>	<b>1360</b>	<b>1360</b>	<b>1315</b>	<b>1288</b>	<b>1346</b>	<b>1427</b>
9 Municipality	281	281	282	277	326	396	394	376	364	322	322	274	264	290	320
10 Public Utility District	1020	1020	966	1022	1182	1324	1319	1199	1093	1038	1038	1042	1024	1056	1107
<b>11 Slice Output from T1 System</b>	<b>1512</b>	<b>1511</b>	<b>1311</b>	<b>1363</b>	<b>1788</b>	<b>1715</b>	<b>1428</b>	<b>1509</b>	<b>1433</b>	<b>1166</b>	<b>1060</b>	<b>1240</b>	<b>1759</b>	<b>1595</b>	<b>1480</b>
12 Municipality	359	358	311	323	424	407	339	358	340	276	252	294	417	378	351
13 Public Utility District	1153	1152	1000	1039	1364	1308	1089	1151	1093	889	809	946	1342	1217	1129
<b>14 Tier 1 Block</b>	<b>371</b>	<b>371</b>	<b>608</b>	<b>514</b>	<b>823</b>	<b>827</b>	<b>898</b>	<b>843</b>	<b>804</b>	<b>410</b>	<b>413</b>	<b>147</b>	<b>20.4</b>	<b>326</b>	<b>548</b>
15 Municipality	339	339	571	474	777	765	830	781	748	372	375	119	0	285	504
16 Public Utility District	32.0	32.0	36.5	40.0	46.1	61.8	68.1	62.1	55.7	38.1	38.1	28.6	20.4	41.6	44.2
<b>17 USBR Obligation</b>	<b>310</b>	<b>309</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>245</b>	<b>243</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	245	243	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1937	1939	1656	1559	1859	2167	2120	2022	1729	1673	1689	1694	1881	2036	1862
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	134	135	125	126	153	181	180	173	149	133	133	124	125	138	145
22 Municipality	1489	1490	1633	1560	2110	2229	2237	2153	2002	1475	1459	1157	1164	1471	1721
23 Public Utility District	2958	2958	2743	2895	3539	3737	3511	3376	3093	2777	2703	2753	3117	3067	3126
24 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	245	243	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6841</b>	<b>6842</b>	<b>6433</b>	<b>6260</b>	<b>7689</b>	<b>8339</b>	<b>8070</b>	<b>7753</b>	<b>7050</b>	<b>6314</b>	<b>6239</b>	<b>6067</b>	<b>6652</b>	<b>7127</b>	<b>7044</b>

**BPA Sales to Preference and Legacy Customers**

**Operating Year 2030 Water Year: 1937**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
<b>1 DSI Obligation</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>	<b>12.0</b>
2 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
<b>3 Load Following</b>	<b>3349</b>	<b>3352</b>	<b>3003</b>	<b>2976</b>	<b>3557</b>	<b>4066</b>	<b>4025</b>	<b>3828</b>	<b>3313</b>	<b>3149</b>	<b>3149</b>	<b>3037</b>	<b>3230</b>	<b>3458</b>	<b>3415</b>
4 Cooperative	1944	1946	1662	1568	1869	2177	2131	2033	1738	1690	1690	1701	1889	2044	1870
5 Municipality	515	516	471	487	585	663	677	640	552	509	509	472	484	520	548
6 Public Utility District	755	756	744	795	950	1045	1037	981	873	817	817	740	732	755	852
7 Federal Entities	135	135	125	126	153	181	180	174	150	133	133	125	125	138	145
<b>8 Slice Block</b>	<b>1318</b>	<b>1318</b>	<b>1264</b>	<b>1276</b>	<b>1482</b>	<b>1690</b>	<b>1682</b>	<b>1547</b>	<b>1431</b>	<b>1335</b>	<b>1335</b>	<b>1293</b>	<b>1266</b>	<b>1322</b>	<b>1409</b>
9 Municipality	284	284	285	272	320	389	386	369	357	316	316	268	259	284	315
10 Public Utility District	1034	1034	979	1004	1162	1302	1297	1179	1074	1020	1020	1024	1007	1038	1093
<b>11 Slice Output from T1 System</b>	<b>1512</b>	<b>1511</b>	<b>1310</b>	<b>1364</b>	<b>1788</b>	<b>1715</b>	<b>1428</b>	<b>1509</b>	<b>1432</b>	<b>1168</b>	<b>1064</b>	<b>1408</b>	<b>1912</b>	<b>1602</b>	<b>1508</b>
12 Municipality	359	358	311	323	424	407	339	358	340	277	252	334	453	380	358
13 Public Utility District	1153	1152	999	1040	1364	1308	1089	1151	1092	891	812	1074	1459	1222	1150
<b>14 Tier 1 Block</b>	<b>370</b>	<b>370</b>	<b>606</b>	<b>515</b>	<b>823</b>	<b>827</b>	<b>899</b>	<b>844</b>	<b>804</b>	<b>412</b>	<b>412</b>	<b>147</b>	<b>20.4</b>	<b>326</b>	<b>548</b>
15 Municipality	338	338	570	475	777	765	830	781	748	374	374	119	0	285	504
16 Public Utility District	31.7	31.7	36.0	40.0	46.1	61.9	68.1	62.2	55.7	38.1	38.1	28.6	20.4	41.6	44.1
<b>17 USBR Obligation</b>	<b>310</b>	<b>309</b>	<b>263</b>	<b>108</b>	<b>15.3</b>	<b>14.5</b>	<b>10.4</b>	<b>16.3</b>	<b>64.9</b>	<b>244</b>	<b>244</b>	<b>327</b>	<b>353</b>	<b>403</b>	<b>178</b>
18 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>Total Power Sales Contracts</b>															
19 Cooperative	1944	1946	1662	1568	1869	2177	2131	2033	1738	1690	1690	1701	1889	2044	1870
20 Direct Service Industry	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
21 Federal Entities	135	135	125	126	153	181	180	174	150	133	133	125	125	138	145
22 Municipality	1496	1496	1637	1557	2106	2223	2232	2149	1996	1475	1451	1193	1196	1469	1724
23 Public Utility District	2974	2974	2758	2880	3522	3717	3491	3373	3095	2766	2687	2866	3218	3056	3139
24 USBR	310	309	263	108	15.3	14.5	10.4	16.3	64.9	244	244	327	353	403	178
<b>25 Total Power Sales Contracts</b>	<b>6870</b>	<b>6872</b>	<b>6458</b>	<b>6251</b>	<b>7677</b>	<b>8325</b>	<b>8056</b>	<b>7757</b>	<b>7056</b>	<b>6321</b>	<b>6217</b>	<b>6224</b>	<b>6793</b>	<b>7123</b>	<b>7069</b>

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***Exhibit 30***  
***Regional Regulated Hydro***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Regional: Regulated Hydro**  
**Operating Year 2021 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.6	16.9	20.2	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.5
2 Alder Hydroelectric	11.6	14.4	13.4	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.5
3 Bonneville	164	295	419	406	527	529	449	491	463	278	136	157	390	206	372
4 Boundary	164	149	190	474	249	257	287	190	180	208	240	625	746	422	334
5 Box Canyon Dam	31.5	28.9	35.5	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.7
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	38.3	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.7
8 Chelan Lake	27.3	61.7	16.8	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	40.6
9 Chief Joseph	1380	1220	923	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1125
10 Cushman 1	4.95	4.58	11.9	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	8.33
11 Cushman 2	0.62	0	13.0	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	15.1
12 Diablo	59.7	56.5	67.9	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	82.1
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.25	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	71.9	67.6	78.9	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	97.0
16 Grand Coulee	2447	2131	1600	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1962
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	107	85.9	116	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	107
20 John Day	692	785	715	658	905	894	738	801	782	507	383	381	761	705	710
21 Kerr	44.9	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	17.1	21.6	20.2	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	32.5
23 Libby	201	200	198	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	184
24 Little Falls	9.63	9.18	12.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.6
25 Little Goose	120	104	128	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	149	113
26 Long Lake	26.2	25.1	33.4	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.2
27 Lower Baker	28.8	23.2	22.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	35.4
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	90.1	110
29 Lower Monumental	84.5	101	124	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	111
30 Mayfield	55.7	20.8	45.4	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	69.7
31 McNary	298	506	466	455	592	576	480	522	487	268	272	267	263	306	424
32 Merwin	22.0	20.5	26.3	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.9
33 Monroe Street	7.08	7.00	10.5	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.1
34 Mossyrock	99.7	39.3	79.7	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	97.8
35 Nine Mile	7.14	6.94	9.72	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.8
36 North Fork	7.85	7.32	8.15	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.7	50.4	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	25.4	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.5
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	41.1	39.6	42.8	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.43	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.42
42 Post Falls	1.90	1.95	4.79	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.35
43 Priest Rapids	417	418	367	380	511	507	415	420	349	347	192	322	637	392	415
44 River Mill	4.45	4.15	4.62	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	312	333	294	302	363	357	317	323	277	278	258	318	387	313	320
46 Rocky Reach	657	630	497	513	683	663	540	555	465	465	461	616	883	647	597
47 Ross	35.4	39.7	61.3	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	73.2
48 Round Butte	87.5	84.0	91.6	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.7
49 Swift 1	31.4	29.4	32.9	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.5
50 Swift 2	8.79	8.34	9.68	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.0
51 The Dalles	477	495	553	532	717	726	601	655	625	570	438	585	743	510	602
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	24.0	20.6	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.8
54 Upper Falls	4.47	4.39	8.15	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.85
55 Wanapum	412	391	313	324	481	473	363	370	298	296	178	316	684	405	389
56 Wells	413	374	304	306	418	405	321	337	278	268	251	336	529	400	357
57 Yale	26.4	23.2	28.5	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.3



**Regional: Regulated Hydro**  
**Operating Year 2021 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6569	6443	5649	5287	7190	6944	5677	6043	5632	4400	3917	5313	7693	6615	6058
59 Investor Owned Utilities	1335	1301	1296	1808	1388	1655	1780	1365	1531	1895	1906	2166	2577	1903	1726
60 Marketer	551	546	463	477	606	590	494	508	436	440	403	510	735	545	528
61 Municipality	594	484	639	910	674	674	1396	565	752	791	1000	1103	1391	1237	900
62 Public Utility District	1210	1196	970	1129	1340	1320	1143	1095	925	998	799	1092	1768	1265	1179
<b>63 Total Regulated Hydro</b>	<b>10259</b>	<b>9970</b>	<b>9017</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9275</b>	<b>8524</b>	<b>8025</b>	<b>10183</b>	<b>14164</b>	<b>11565</b>	<b>10391</b>

**Regional: Regulated Hydro**  
**Operating Year 2022 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.5
3 Bonneville	136	281	400	406	527	529	449	491	465	278	136	157	358	206	366
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	334
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.5
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.27
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.2
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.2
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	149	113
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.0
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	35.0
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	89.4	110
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	421
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.5
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.1
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.6
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.1
51 The Dalles	454	482	525	532	717	726	601	655	625	567	438	579	743	510	598
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	652	405	379
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	529	400	353
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0

**Regional: Regulated Hydro**  
**Operating Year 2022 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5287	7190	6944	5677	6043	5634	4397	3917	5306	7662	6614	5992
59 Investor Owned Utilities	1296	1272	1237	1808	1388	1655	1780	1365	1531	1895	1906	2166	2573	1903	1718
60 Marketer	516	528	417	477	606	590	452	464	399	403	367	463	670	497	495
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1386	1237	906
62 Public Utility District	1122	1107	857	1129	1340	1320	1186	1138	962	1035	835	1138	1811	1313	1187
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9277</b>	<b>8521</b>	<b>8025</b>	<b>10176</b>	<b>14101</b>	<b>11565</b>	<b>10298</b>

**Regional: Regulated Hydro**  
**Operating Year 2023 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	27.8	15.8	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	22.7
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.5
3 Bonneville	136	281	400	406	527	529	449	491	466	278	136	157	367	206	367
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	334
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.5
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.27
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.2
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.2
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	149	113
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.0
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	35.0
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	80.3	109
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	421
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.5
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.1
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.6
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.1
51 The Dalles	454	482	525	532	717	726	601	655	625	568	438	586	743	510	599
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	684	405	382
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	529	400	353
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0

**Regional: Regulated Hydro**  
**Operating Year 2023 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5279	7189	6944	5677	6043	5635	4397	3917	5313	7670	6605	5992
59 Investor Owned Utilities	1296	1272	1237	1808	1388	1655	1780	1365	1531	1895	1906	2166	2577	1903	1718
60 Marketer	470	481	382	436	554	539	366	377	324	329	295	370	545	401	424
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1391	1237	906
62 Public Utility District	1168	1154	892	1169	1392	1371	1272	1226	1036	1110	907	1232	1958	1409	1260
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9602</b>	<b>11197</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9278</b>	<b>8522</b>	<b>8025</b>	<b>10183</b>	<b>14142</b>	<b>11555</b>	<b>10300</b>

**Regional: Regulated Hydro**  
**Operating Year 2024 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.4
3 Bonneville	136	281	400	406	527	529	449	491	466	278	136	157	358	206	367
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	333
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.4
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.25
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.1
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.2
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	149	113
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	43.9
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	34.9
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	82.6	109
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	422
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.4
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.0
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.28
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.5
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.0
51 The Dalles	454	482	525	532	717	726	601	655	625	568	438	578	743	510	598
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.2
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.77
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	605	405	375
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	529	400	353
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0

**Regional: Regulated Hydro**  
**Operating Year 2024 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5287	7190	6944	5677	6043	5635	4398	3917	5306	7662	6607	5992
59 Investor Owned Utilities	1296	1272	1237	1808	1388	1655	1780	1365	1531	1895	1906	2166	2566	1903	1716
60 Marketer	378	387	311	355	449	437	366	377	324	329	295	370	540	401	385
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1378	1237	904
62 Public Utility District	1261	1247	962	1251	1497	1473	1272	1226	1036	1110	907	1232	1908	1409	1294
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9278</b>	<b>8522</b>	<b>8025</b>	<b>10176</b>	<b>14054</b>	<b>11558</b>	<b>10292</b>

**Regional: Regulated Hydro**  
**Operating Year 2025 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.5
3 Bonneville	136	281	400	406	527	529	449	491	466	278	136	157	358	206	366
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	334
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.5
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.27
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.2
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.2
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	122	111
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.0
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	35.0
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	80.3	109
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	421
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.5
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.1
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.6
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.1
51 The Dalles	454	482	525	532	717	726	601	655	625	552	438	561	743	510	596
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	522	405	369
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	521	400	352
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0



**Regional: Regulated Hydro**  
**Operating Year 2025 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5287	7190	6944	5677	6043	5635	4381	3917	5289	7662	6578	5987
59 Investor Owned Utilities	1296	1272	1237	1808	1388	1655	1780	1365	1531	1895	1906	2166	2553	1903	1716
60 Marketer	378	387	311	355	449	437	366	377	324	329	295	370	535	401	385
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1365	1237	904
62 Public Utility District	1261	1247	962	1251	1497	1473	1272	1226	1036	1110	907	1232	1849	1409	1289
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9278</b>	<b>8506</b>	<b>8025</b>	<b>10159</b>	<b>13963</b>	<b>11529</b>	<b>10281</b>

**Regional: Regulated Hydro**  
**Operating Year 2026 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.5
3 Bonneville	136	281	400	406	527	529	449	491	466	278	136	157	358	206	366
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	334
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.5
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.27
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.2
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.2
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	149	113
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.0
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	35.0
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	82.6	109
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	421
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.5
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.1
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.6
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.1
51 The Dalles	454	482	525	532	717	726	601	655	625	568	438	578	743	510	598
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	605	405	375
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	529	400	353
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0

**Regional: Regulated Hydro**  
**Operating Year 2026 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5287	7190	6944	5677	6043	5635	4398	3917	5306	7662	6607	5992
59 Investor Owned Utilities	1296	1272	1237	1808	1388	1655	1780	1365	1531	1895	1906	2166	2566	1903	1717
60 Marketer	378	387	311	355	449	437	366	377	324	329	295	370	540	401	385
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1378	1237	905
62 Public Utility District	1261	1247	962	1251	1497	1473	1272	1226	1036	1110	907	1232	1908	1409	1294
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9278</b>	<b>8522</b>	<b>8025</b>	<b>10176</b>	<b>14054</b>	<b>11558</b>	<b>10293</b>

**Regional: Regulated Hydro**  
**Operating Year 2027 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.5
3 Bonneville	136	281	400	406	527	529	449	491	466	278	136	157	358	206	366
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	334
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.5
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.27
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.2
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.2
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	122	111
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.0
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	35.0
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	80.3	109
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	421
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.5
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.1
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.6
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.1
51 The Dalles	454	482	525	532	717	726	601	655	625	552	438	561	743	510	596
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	522	405	369
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	521	400	352
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0

**Regional: Regulated Hydro**  
**Operating Year 2027 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5287	7190	6944	5677	6043	5635	4381	3917	5289	7662	6578	5987
59 Investor Owned Utilities	1296	1272	1237	1808	1388	1655	1780	1365	1531	1895	1906	2166	2553	1903	1716
60 Marketer	378	387	311	355	449	437	366	377	324	329	295	370	535	401	385
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1365	1237	904
62 Public Utility District	1261	1247	962	1251	1497	1473	1272	1226	1036	1110	907	1232	1849	1409	1289
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9278</b>	<b>8506</b>	<b>8025</b>	<b>10159</b>	<b>13963</b>	<b>11529</b>	<b>10281</b>

**Regional: Regulated Hydro**  
**Operating Year 2028 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.4
3 Bonneville	136	281	400	406	527	529	449	491	466	278	136	157	358	206	367
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	333
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.4
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.25
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.1
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.2
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	149	113
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	43.9
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	34.9
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	82.6	109
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	422
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.4
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.0
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.28
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.5
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.0
51 The Dalles	454	482	525	532	717	726	601	655	625	568	438	578	743	510	598
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.2
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.77
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	605	405	375
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	529	400	353
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0

**Regional: Regulated Hydro**  
**Operating Year 2028 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5287	7190	6944	5677	6043	5635	4398	3917	5306	7662	6607	5992
59 Investor Owned Utilities	1296	1272	1237	1808	1388	1655	1780	1365	1531	1895	1906	2166	2566	1903	1716
60 Marketer	378	387	311	355	449	437	366	377	324	329	295	370	540	401	385
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1378	1237	904
62 Public Utility District	1261	1247	962	1251	1497	1473	1272	1226	1036	1110	907	1232	1908	1409	1294
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9278</b>	<b>8522</b>	<b>8025</b>	<b>10176</b>	<b>14054</b>	<b>11558</b>	<b>10292</b>

**Regional: Regulated Hydro**  
**Operating Year 2029 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.5
3 Bonneville	136	281	400	406	527	529	449	491	466	278	136	157	358	206	366
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	334
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.5
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.27
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.2
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.2
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	122	111
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.0
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	35.0
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	80.3	109
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	421
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.5
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.1
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.6
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.1
51 The Dalles	454	482	525	532	717	726	601	655	625	552	438	561	743	510	596
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	522	405	369
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	521	400	352
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0



**Regional: Regulated Hydro**  
**Operating Year 2029 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5287	7190	6944	5677	6043	5635	4381	3917	5289	7662	6578	5987
59 Investor Owned Utilities	1296	1272	1185	1749	1307	1576	1718	1300	1477	1843	1857	2101	2452	1825	1654
60 Marketer	378	387	311	355	449	437	366	377	324	329	295	370	535	401	385
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1365	1237	904
62 Public Utility District	1261	1247	1015	1310	1578	1552	1334	1291	1090	1162	956	1297	1950	1487	1351
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9278</b>	<b>8506</b>	<b>8025</b>	<b>10159</b>	<b>13963</b>	<b>11529</b>	<b>10281</b>

**Regional: Regulated Hydro**  
**Operating Year 2030 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Regulated Hydro</b>															
1 Albeni Falls Hydroelectric	18.7	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.7	18.4	35.4	44.0	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	0.43	37.0	36.3	25.2	40.2	12.3	48.7	20.5
3 Bonneville	136	281	400	406	527	529	449	491	466	278	136	157	358	206	366
4 Boundary	164	149	181	474	249	257	287	190	180	208	240	625	746	422	334
5 Box Canyon Dam	31.6	28.9	34.0	77.3	44.9	46.2	51.0	35.4	33.5	38.2	43.8	85.2	82.8	67.7	52.6
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.4	39.8	35.1	65.1	54.4	72.8	92.7	52.1	42.0	69.4	70.6	198	216	118	88.5
8 Chelan Lake	39.1	20.2	12.0	58.2	24.1	20.4	63.6	21.5	23.9	61.7	61.5	59.2	23.5	66.8	38.9
9 Chief Joseph	1295	1202	819	934	1290	1249	984	1038	857	847	837	1096	1682	1302	1112
10 Cushman 1	27.5	22.1	2.69	6.52	0.84	2.59	10.6	2.45	2.67	2.94	22.8	20.0	2.90	21.2	9.27
11 Cushman 2	58.3	52.0	0.03	12.5	0	0.49	25.1	0.49	0.36	0.20	53.0	49.4	0.10	51.0	18.7
12 Diablo	80.5	56.5	82.6	56.0	59.7	64.3	157	66.2	94.6	94.4	66.6	81.3	103	95.8	84.2
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.5	61.6	67.5	170	440	140	
14 Faraday	6.98	6.50	7.38	6.57	5.01	13.4	8.55	14.3	27.1	37.1	36.7	37.1	29.0	11.7	17.0
15 Gorge	93.5	67.6	94.5	66.2	69.3	78.6	167	76.1	111	125	81.5	100	126	114	99.1
16 Grand Coulee	2279	2095	1421	1652	2299	2182	1705	1817	1456	1390	1351	1855	3012	2315	1939
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	85.9	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	108
20 John Day	631	727	641	658	905	894	738	801	782	507	383	381	761	705	699
21 Kerr	45.3	44.9	44.9	90.9	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	0.76	62.9	62.9	44.7	62.9	19.3	62.9	33.2
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	19.3	11.4	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	104	130	93.7	111	113	119	111	176	82.2	79.6	79.6	79.6	149	113
26 Long Lake	25.8	25.3	31.1	32.7	28.6	47.7	28.5	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.0
27 Lower Baker	33.1	19.9	17.0	55.8	15.8	21.2	40.2	11.2	14.4	10.3	50.9	50.8	63.6	70.6	35.0
28 Lower Granite	80.3	105	133	100	110	112	117	110	175	82.4	80.3	115	80.3	82.6	109
29 Lower Monumental	84.5	101	131	96.7	112	117	120	130	190	85.4	84.3	84.0	84.1	99.2	112
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	172	8.36	73.8	95.1	68.1
31 McNary	291	497	447	455	592	576	480	522	487	268	272	267	263	306	421
32 Merwin	19.7	17.0	24.2	115	12.9	43.1	80.6	31.9	69.6	109	107	20.0	44.4	46.8	51.5
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	214	0	116	180	95.1
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.30	7.39	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	28.3	13.1	19.4
37 Noxon Rapids	55.0	54.3	45.6	89.3	74.0	101	132	70.6	55.7	100	90.6	292	319	164	125
38 Oak Grove	21.0	20.2	26.5	24.9	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	54.9	40.2	40.1	43.6	41.0
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	11.7	8.22	8.20	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	360	389	325	380	511	507	415	420	349	347	192	322	637	392	408
44 River Mill	4.45	4.15	4.71	4.19	3.20	8.53	5.45	9.14	17.3	22.1	22.1	22.1	20.3	7.45	10.7
45 Rock Island	303	328	265	302	363	357	317	323	277	278	258	318	387	313	317
46 Rocky Reach	621	610	441	513	683	663	540	555	465	465	461	616	883	647	590
47 Ross	60.2	39.5	78.6	54.9	65.5	65.9	172	63.3	83.2	89.5	49.2	59.0	70.9	73.7	75.6
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	119	84.4	84.8	93.4	86.5
49 Swift 1	31.0	26.3	35.7	179	0.02	25.2	72.1	25.5	45.3	154	125	0.02	82.1	67.8	58.6
50 Swift 2	9.02	7.67	10.7	62.9	0.01	10.9	31.7	12.1	20.7	69.0	58.0	0.01	24.1	19.2	22.1
51 The Dalles	454	482	525	532	717	726	601	655	625	568	438	578	743	510	598
52 Thompson Falls	30.6	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	21.9	63.4	0	40.6	9.79	9.17	6.65	0.44	64.6	44.1	60.2	65.8	31.9
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	365	366	269	324	481	473	363	370	298	296	178	316	605	405	375
56 Wells	388	369	269	306	418	405	321	337	278	268	251	336	529	400	353
57 Yale	22.7	19.3	29.3	132	18.3	61.3	70.4	32.0	60.5	106	122	10.6	79.9	53.6	57.0

**Regional: Regulated Hydro**  
**Operating Year 2030 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Total Regulated Hydro</b>															
58 Federal Entities	6171	6262	5187	5287	7190	6944	5677	6043	5635	4398	3917	5306	7662	6607	5992
59 Investor Owned Utilities	1220	1200	1185	1749	1307	1576	1718	1300	1477	1843	1857	2101	2463	1825	1649
60 Marketer	378	387	311	355	449	437	366	377	324	329	295	370	540	401	385
61 Municipality	726	558	601	910	674	674	1396	565	752	791	1000	1103	1378	1237	905
62 Public Utility District	1336	1319	1015	1310	1578	1552	1334	1291	1090	1162	956	1297	2011	1487	1363
<b>63 Total Regulated Hydro</b>	<b>9831</b>	<b>9726</b>	<b>8299</b>	<b>9609</b>	<b>11198</b>	<b>11182</b>	<b>10491</b>	<b>9576</b>	<b>9278</b>	<b>8522</b>	<b>8025</b>	<b>10176</b>	<b>14054</b>	<b>11558</b>	<b>10293</b>

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***Exhibit 31***  
***Regional Independent Hydro***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Regional: Independent Hydro**  
**Operating Year 2021 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	9.28	33.2	39.6	44.7	0	0	0	0	0	0	0	0	10.6
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

**Regional: Independent Hydro**  
**Operating Year 2021 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
<b>Total Independent Hydro</b>	<b>6.06</b>	<b>6.06</b>	<b>4.04</b>	<b>3.78</b>	<b>4.34</b>	<b>4.34</b>	<b>4.65</b>	<b>5.14</b>	<b>5.66</b>	<b>7.16</b>	<b>7.16</b>	<b>8.63</b>	<b>9.29</b>	<b>8.36</b>	<b>5.96</b>
81 Cooperative	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
82 Federal Entities	507	501	513	488	451	500	406	456	478	603	609	598	595	539	511
83 Investor Owned Utilities	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
84 Marketer	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
85 Municipality	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
86 Public Utility District	<b>1000</b>	<b>995</b>	<b>976</b>	<b>907</b>	<b>817</b>	<b>867</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1035</b>
<b>87 Total Independent Hydro</b>															

**Regional: Independent Hydro**  
**Operating Year 2022 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17



**Regional: Independent Hydro**  
**Operating Year 2022 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
<b>Total Independent Hydro</b>	<b>6.06</b>	<b>6.06</b>	<b>4.04</b>	<b>3.78</b>	<b>4.34</b>	<b>4.34</b>	<b>4.65</b>	<b>5.14</b>	<b>5.66</b>	<b>7.16</b>	<b>7.16</b>	<b>8.63</b>	<b>9.29</b>	<b>8.36</b>	<b>5.96</b>
81 Cooperative	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
82 Federal Entities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
83 Investor Owned Utilities	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
84 Marketer	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
85 Municipality	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
86 Public Utility District	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1024</b>
<b>87 Total Independent Hydro</b>															

**Regional: Independent Hydro**  
**Operating Year 2023 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

**Regional: Independent Hydro**  
**Operating Year 2023 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	3.80	2.50	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
<b>Total Independent Hydro</b>	<b>6.06</b>	<b>6.06</b>	<b>4.04</b>	<b>3.78</b>	<b>4.34</b>	<b>4.34</b>	<b>4.65</b>	<b>5.14</b>	<b>5.66</b>	<b>7.16</b>	<b>7.16</b>	<b>8.63</b>	<b>9.29</b>	<b>8.36</b>	<b>5.96</b>
81 Cooperative	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
82 Federal Entities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
83 Investor Owned Utilities	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
84 Marketer	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
85 Municipality	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
86 Public Utility District	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1024</b>
<b>87 Total Independent Hydro</b>															

**Regional: Independent Hydro**  
**Operating Year 2024 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.86
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.0
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.61
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	18.9
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.2
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.21
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.83
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.30
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.3
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	42.9
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.7
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.44
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.6
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.0
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.44
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.0
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

**Regional: Independent Hydro**  
**Operating Year 2024 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.87
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.97
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.54
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.21
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.45
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.27
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.73
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.39
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.21
<b>Total Independent Hydro</b>															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.95
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	500
84 Marketer	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.97
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	73.9
<b>87 Total Independent Hydro</b>	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1023</b>

**Regional: Independent Hydro**  
**Operating Year 2025 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

**Regional: Independent Hydro**  
**Operating Year 2025 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
<b>Total Independent Hydro</b>															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.96
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
84 Marketer	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
<b>87 Total Independent Hydro</b>	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1024</b>

**Regional: Independent Hydro**  
**Operating Year 2026 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17



**Regional: Independent Hydro**  
**Operating Year 2026 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
<b>Total Independent Hydro</b>	<b>6.06</b>	<b>6.06</b>	<b>4.04</b>	<b>3.78</b>	<b>4.34</b>	<b>4.34</b>	<b>4.65</b>	<b>5.14</b>	<b>5.66</b>	<b>7.16</b>	<b>7.16</b>	<b>8.63</b>	<b>9.29</b>	<b>8.36</b>	<b>5.96</b>
81 Cooperative	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
82 Federal Entities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
83 Investor Owned Utilities	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
84 Marketer	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
85 Municipality	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
86 Public Utility District	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1024</b>
<b>87 Total Independent Hydro</b>															

**Regional: Independent Hydro**  
**Operating Year 2027 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

**Regional: Independent Hydro**  
**Operating Year 2027 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
<b>Total Independent Hydro</b>	<b>6.06</b>	<b>6.06</b>	<b>4.04</b>	<b>3.78</b>	<b>4.34</b>	<b>4.34</b>	<b>4.65</b>	<b>5.14</b>	<b>5.66</b>	<b>7.16</b>	<b>7.16</b>	<b>8.63</b>	<b>9.29</b>	<b>8.36</b>	<b>5.96</b>
81 Cooperative	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
82 Federal Entities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
83 Investor Owned Utilities	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
84 Marketer	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
85 Municipality	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
86 Public Utility District	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1024</b>
<b>87 Total Independent Hydro</b>															

**Regional: Independent Hydro**  
**Operating Year 2028 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.86
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.0
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.61
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	18.9
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.2
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.21
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.83
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.30
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.3
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	42.9
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.7
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.44
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.6
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.0
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.44
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.0
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

**Regional: Independent Hydro**  
**Operating Year 2028 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.87
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.97
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.54
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.21
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.45
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.27
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.73
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.39
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.21
<b>Total Independent Hydro</b>															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.95
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	500
84 Marketer	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.97
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	73.9
<b>87 Total Independent Hydro</b>	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1023</b>

**Regional: Independent Hydro**  
**Operating Year 2029 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

**Regional: Independent Hydro**  
**Operating Year 2029 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
<b>Total Independent Hydro</b>	<b>6.06</b>	<b>6.06</b>	<b>4.04</b>	<b>3.78</b>	<b>4.34</b>	<b>4.34</b>	<b>4.65</b>	<b>5.14</b>	<b>5.66</b>	<b>7.16</b>	<b>7.16</b>	<b>8.63</b>	<b>9.29</b>	<b>8.36</b>	<b>5.96</b>
81 Cooperative	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
82 Federal Entities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
83 Investor Owned Utilities	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
84 Marketer	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
85 Municipality	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
86 Public Utility District	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1024</b>
<b>87 Total Independent Hydro</b>															

**Regional: Independent Hydro**  
**Operating Year 2030 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Independent Hydro</b>															
1 American Falls Hydroelectric	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2 Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3 Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4 Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6 Big Cliff	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
7 Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8 Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9 Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10 Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11 Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12 Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13 Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14 Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15 Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16 CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17 Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18 Cougar	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
19 Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20 Detroit	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
22 Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23 Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24 Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25 Foster	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
26 Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27 Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28 Green Peter	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
29 Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30 Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
33 Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
34 Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35 Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
36 Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
37 Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
45 Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
49 Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
50 Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
51 Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
52 North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
53 Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
54 Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
55 Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17



**Regional: Independent Hydro**  
**Operating Year 2030 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Roque	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60 Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61 Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62 Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63 Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64 Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
65 South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
66 Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
67 Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
70 Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
71 Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
72 TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
73 Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
74 Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
75 Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
76 Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
77 Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
78 Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
79 Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
80 Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
<b>Total Independent Hydro</b>	<b>6.06</b>	<b>6.06</b>	<b>4.04</b>	<b>3.78</b>	<b>4.34</b>	<b>4.34</b>	<b>4.65</b>	<b>5.14</b>	<b>5.66</b>	<b>7.16</b>	<b>7.16</b>	<b>8.63</b>	<b>9.29</b>	<b>8.36</b>	<b>5.96</b>
81 Cooperative	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
82 Federal Entities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
83 Investor Owned Utilities	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
84 Marketer	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
85 Municipality	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
86 Public Utility District	<b>1000</b>	<b>995</b>	<b>967</b>	<b>874</b>	<b>778</b>	<b>822</b>	<b>667</b>	<b>723</b>	<b>883</b>	<b>1238</b>	<b>1254</b>	<b>1577</b>	<b>1605</b>	<b>1141</b>	<b>1024</b>
<b>87 Total Independent Hydro</b>															

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***Exhibit 32***  
***Regional Small Hydro***

***Monthly Energy***  
***Operating Year 2021 to 2030***  
***Using 1937-Water Conditions***

**Regional: Small Hydro**  
**Operating Year 2021 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89

**Regional: Small Hydro**  
**Operating Year 2021 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.04	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
130 Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.18
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.31	0.31	0.38	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.35
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>242</b>

**Regional: Small Hydro**  
**Operating Year 2022 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Canyon	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89



**Regional: Small Hydro**  
**Operating Year 2022 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
**Operating Year 2022 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
130 Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.18
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2022 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>242</b>

**Regional: Small Hydro**  
**Operating Year 2023 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Canyon	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89

**Regional: Small Hydro**  
**Operating Year 2023 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavanner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
**Operating Year 2023 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
130 Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.18
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2023 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>242</b>

**Regional: Small Hydro**  
**Operating Year 2024 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.56
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.80
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.40
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.47
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.90



**Regional: Small Hydro**  
**Operating Year 2024 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.23
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.02
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.33
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.55
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.80
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.16
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
**Operating Year 2024 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.81
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.71
130 Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.82
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.28
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.20
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.70
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.60
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.41	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.1
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.43	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.23
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.09
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2024 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.13
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.04	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	76.9
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>241</b>

**Regional: Small Hydro**  
**Operating Year 2025 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Canyon	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89

**Regional: Small Hydro**  
**Operating Year 2025 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
**Operating Year 2025 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 Continued**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
130 Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.18
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0.02	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2025 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>242</b>

**Regional: Small Hydro**  
**Operating Year 2026 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Canyon	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89



**Regional: Small Hydro**  
**Operating Year 2026 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
**Operating Year 2026 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
130 Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.18
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2026 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>242</b>

**Regional: Small Hydro**  
**Operating Year 2027 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Canyon	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89

**Regional: Small Hydro**  
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
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**2019 White Book Report Date: 3/2/2020 Continued**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
130 Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.18
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0.02	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2027 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>242</b>

**Regional: Small Hydro**  
**Operating Year 2028 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.56
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.80
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.40
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.47
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.90



**Regional: Small Hydro**  
**Operating Year 2028 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.23
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.02
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.33
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.55
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.80
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.16
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
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**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.81
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.71
130 Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.82
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.28
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.20
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.70
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.60
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.41	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.1
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.43	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.23
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0.02	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.09
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2028 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.13
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.04	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	76.9
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>241</b>

**Regional: Small Hydro**  
**Operating Year 2029 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89

**Regional: Small Hydro**  
**Operating Year 2029 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Regional: Small Hydro**  
**Operating Year 2029 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
130 Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.18
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0.02	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2029 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>242</b>

**Regional: Small Hydro**  
**Operating Year 2030 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Small Hydro</b>															
1 Albany-Millersburg Hydroelectric	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2 Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3 Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4 Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5 Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6 Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7 Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8 Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10 Biqq's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12 Birch Creek Diversion Dam	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
13 Birch Creek (Gooding, ID)	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
14 Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15 Black Canyon	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16 Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17 Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
18 Briqqs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
19 Briqqs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
20 Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
26 Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27 Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28 Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29 Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
40 Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
47 Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
48 Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
52 Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
53 Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
54 Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
57 Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
58 Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89



**Regional: Small Hydro**  
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**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59 Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60
60 Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
65 Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
66 Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
72 Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
77 James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
78 Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
79 John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
85 L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
86 Lacombe	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
96 Little Wood River Reservoir	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
97 Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
101 LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
102 Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
105 Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
108 Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
109 Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
110 Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
113 Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
114 Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
115 Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

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S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118 Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
119 N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
120 Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
121 Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19
122 North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
125 Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
126 Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
129 Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
130 Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
131 PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
134 Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	-35.7	-35.7	-16.1	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	7.18
138 Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
139 Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
140 Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
141 Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
142 Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
145 Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
146 Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
147 Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
148 Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
149 Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
152 Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
153 Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
157 Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
158 South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
165 Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
166 Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
169 Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12

**Regional: Small Hydro**  
**Operating Year 2030 Water Year: 1937**  
**2019 White Book Report Date: 3/2/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
181 Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14
182 Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>Total Small Hydro</b>															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
192 Investor Owned Utilities	128	127	120	111	114	111	109	116	135	173	174	209	209	187	144
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
<b>196 Total Small Hydro</b>	<b>290</b>	<b>288</b>	<b>228</b>	<b>165</b>	<b>131</b>	<b>129</b>	<b>127</b>	<b>135</b>	<b>165</b>	<b>284</b>	<b>285</b>	<b>406</b>	<b>425</b>	<b>408</b>	<b>242</b>

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***Exhibit 33***  
***Regional Non-Hydro Renewable - Wind***

***Monthly Energy***  
***Operating Year 2021 to 2030***

Regional: Non-Hydro Renewable - Wind

Operating Year: 2021 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.74
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.88
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.30
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.49
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.20
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.70
19 Foote Creek 1 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.21	8.29	14.84	12.48	13.35	13.20	12.91	5.69
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	2.70	4.06	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.13
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.31
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.29
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.87
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.56
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauffer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.60
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.66
42 Klondike Wind 3	36.02	54.04	50.22	40.35	57.83	44.08	23.57	39.00	44.84	80.20	67.48	72.19	71.37	69.77	52.70
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.01
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.06

Regional: Non-Hydro Renewable - Wind

Operating Year: 2021 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
49 Livingston Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.50
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.58
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.18
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.65
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.58
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.58
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.60
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.23
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.65
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.95
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.64
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
74 Stateline Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.70
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.96
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.19
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.19
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.74
84 White Creek Wind	32.19	48.29	44.87	36.06	51.67	39.39	21.06	34.85	40.07	71.66	60.30	64.50	63.77	62.34	47.09
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.18
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.95
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.89
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.19
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1291</b>	<b>1879</b>	<b>1730</b>	<b>1386</b>	<b>1970</b>	<b>1511</b>	<b>844</b>	<b>1362</b>	<b>1528</b>	<b>2680</b>	<b>2280</b>	<b>2463</b>	<b>2460</b>	<b>2399</b>	<b>1811</b>

Regional: Non-Hydro Renewable - Wind

Operating Year: 2022 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.74
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.88
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.30
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.49
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.20
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.70
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.75
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.13
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.31
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.29
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.87
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.56
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauffer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.60
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.66
42 Klondike Wind 3	36.02	54.04	50.22	40.35	57.83	44.08	23.57	39.00	44.84	80.20	67.48	72.19	71.37	69.77	52.70
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.01
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.06
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09



Regional: Non-Hydro Renewable - Wind

Operating Year: 2022 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
49 Livingston Wind	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.50
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.58
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.18
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.65
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.58
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.58
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.60
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.23
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.65
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.95
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.64
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
74 Stateline Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.70
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.96
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.19
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.19
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.74
84 White Creek Wind	32.19	48.29	44.87	36.06	51.67	39.39	21.06	34.85	40.07	71.66	60.30	64.50	63.77	62.34	47.09
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.18
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.95
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.89
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.19
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1295</b>	<b>1885</b>	<b>1736</b>	<b>1393</b>	<b>1981</b>	<b>1519</b>	<b>849</b>	<b>1362</b>	<b>1528</b>	<b>2680</b>	<b>2280</b>	<b>2463</b>	<b>2460</b>	<b>2399</b>	<b>1814</b>

Regional: Non-Hydro Renewable - Wind

Operating Year: 2023 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.74
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.88
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.30
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.49
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.20
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.70
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.75
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.13
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.31
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.29
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.87
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.56
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauffer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.60
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.66
42 Klondike Wind 3	36.02	54.04	50.22	40.35	57.83	44.08	23.57	39.00	44.84	80.20	67.48	72.19	71.37	69.77	52.70
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.01
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.06
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09

Regional: Non-Hydro Renewable - Wind

Operating Year: 2023 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
49 Livingston Wind	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.50
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.58
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.18
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.65
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.58
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.58
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.60
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.23
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.65
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.95
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.64
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
74 Stateline Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.70
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.96
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.19
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.19
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.74
84 White Creek Wind	32.19	48.29	44.87	36.06	51.67	39.39	21.06	34.85	40.07	71.66	60.30	64.50	63.77	62.34	47.09
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.18
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.95
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.89
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.19
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1295</b>	<b>1885</b>	<b>1736</b>	<b>1393</b>	<b>1981</b>	<b>1519</b>	<b>849</b>	<b>1362</b>	<b>1528</b>	<b>2680</b>	<b>2280</b>	<b>2463</b>	<b>2460</b>	<b>2399</b>	<b>1814</b>

Regional: Non-Hydro Renewable - Wind

Operating Year: 2024 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.70
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.80
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.29
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.47
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.19
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.68
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.74
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.82
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.12
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.29
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.27
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.72
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.84
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.55
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauffer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.57
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.72
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.65
42 Klondike Wind 3	36.02	54.04	50.22	40.35	57.83	44.08	23.57	39.00	44.84	80.20	67.48	72.19	71.37	69.77	52.66
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.00
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.01
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.07	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09

Regional: Non-Hydro Renewable - Wind

Operating Year: 2024 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.76
49 Livingston Wind	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.40
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.55
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.16
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.66
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.56
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.56
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.22
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.59
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.21
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.76
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.63
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.81
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.63
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.22
74 Stateline Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.65
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.82
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.95
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.17
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.17
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.73
84 White Creek Wind	32.19	48.29	44.87	36.06	51.67	39.39	21.06	34.85	40.07	71.66	60.30	64.50	63.77	62.34	47.05
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.14
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.94
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.83
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.18
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1295</b>	<b>1885</b>	<b>1736</b>	<b>1393</b>	<b>1981</b>	<b>1519</b>	<b>849</b>	<b>1362</b>	<b>1528</b>	<b>2680</b>	<b>2280</b>	<b>2463</b>	<b>2460</b>	<b>2399</b>	<b>1813</b>

Regional: Non-Hydro Renewable - Wind

Operating Year: 2025 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.74
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.88
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.30
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.49
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.20
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.70
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.75
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.13
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.31
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.29
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.87
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.56
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauffer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.60
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.66
42 Klondike Wind 3	36.02	54.04	50.22	40.35	57.83	44.08	23.57	39.00	44.84	80.20	67.48	72.19	71.37	69.77	52.70
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.01
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.06
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.07	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09

Regional: Non-Hydro Renewable - Wind

Operating Year: 2025 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
49 Livingston Wind	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.50
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.58
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.18
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.65
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.58
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.58
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.60
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.23
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.65
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.95
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.64
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
74 Stateline Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.70
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.96
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.19
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.19
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.74
84 White Creek Wind	32.19	48.29	44.87	36.06	51.67	39.39	21.06	34.85	40.07	71.66	60.30	64.50	63.77	62.34	47.09
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.18
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.95
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.89
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.19
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1295</b>	<b>1885</b>	<b>1736</b>	<b>1393</b>	<b>1981</b>	<b>1519</b>	<b>849</b>	<b>1362</b>	<b>1528</b>	<b>2680</b>	<b>2280</b>	<b>2463</b>	<b>2460</b>	<b>2399</b>	<b>1814</b>

Regional: Non-Hydro Renewable - Wind

Operating Year: 2026 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.74
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.88
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.30
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.49
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.20
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.70
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.75
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.13
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.31
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.29
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.87
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.56
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauffer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.60
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.66
42 Klondike Wind 3	36.02	54.04	50.22	40.35	57.83	44.08	23.57	39.00	44.84	80.20	67.48	72.19	71.37	69.77	52.70
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.01
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.06
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09



Regional: Non-Hydro Renewable - Wind

Operating Year: 2026 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
49 Livingston Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.50
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.58
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.18
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.65
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.58
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.58
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.60
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.23
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.65
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.95
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.64
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
74 Stateline Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.70
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.96
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.19
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.19
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.74
84 White Creek Wind	32.19	48.29	44.87	36.06	51.67	39.39	21.06	34.85	40.07	71.66	60.30	64.50	63.77	62.34	47.09
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.18
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.95
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.89
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.19
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1295</b>	<b>1885</b>	<b>1736</b>	<b>1393</b>	<b>1981</b>	<b>1519</b>	<b>849</b>	<b>1362</b>	<b>1528</b>	<b>2680</b>	<b>2280</b>	<b>2463</b>	<b>2460</b>	<b>2399</b>	<b>1814</b>

Regional: Non-Hydro Renewable - Wind

Operating Year: 2027 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.74
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.88
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.30
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.49
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.20
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.70
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.75
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.13
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.31
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.29
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.87
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.56
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauffer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.60
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.66
42 Klondike Wind 3	36.02	54.04	50.22	40.35	57.83	44.08	23.57	39.00	44.84	80.20	67.48	72.19	71.37	69.77	52.70
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.01
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.06
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09

Regional: Non-Hydro Renewable - Wind

Operating Year: 2027 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
49 Livingston Wind	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.50
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.58
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.18
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.65
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.58
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.58
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.60
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.23
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.65
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.95
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.64
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
74 Stateline Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.70
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.96
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.19
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.19
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.74
84 White Creek Wind	32.19	48.29	44.87	36.06	51.67	39.39	21.06	34.85	40.07	71.66	60.30	64.50	63.77	62.34	47.09
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.18
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.95
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.89
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.19
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1295</b>	<b>1885</b>	<b>1736</b>	<b>1393</b>	<b>1981</b>	<b>1519</b>	<b>849</b>	<b>1362</b>	<b>1528</b>	<b>2680</b>	<b>2280</b>	<b>2463</b>	<b>2460</b>	<b>2399</b>	<b>1814</b>

Regional: Non-Hydro Renewable - Wind

Operating Year: 2028 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.70
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.80
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.29
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.47
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.19
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.68
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.74
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.82
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.12
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.29
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.27
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.72
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.84
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.55
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauffer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.57
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.72
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.65
42 Klondike Wind 3	36.02	54.04	50.22	40.35	57.83	44.04	23.55	38.97	44.80	80.12	67.42	72.12	71.30	69.70	52.62
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.00
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.01
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09

Regional: Non-Hydro Renewable - Wind

Operating Year: 2028 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.76
49 Livingston Wind	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.40
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.55
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.16
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.66
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.56
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.56
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.22
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.59
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.21
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.76
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.63
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.81
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.63
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.22
74 Stateline Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.65
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.82
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.95
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.41
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.17
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.17
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.73
84 White Creek Wind	32.19	48.29	44.87	36.06	51.67	39.39	21.06	34.85	40.07	71.66	60.30	64.50	54.83	53.60	45.58
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.14
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.94
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.83
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.18
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1295</b>	<b>1885</b>	<b>1736</b>	<b>1393</b>	<b>1981</b>	<b>1519</b>	<b>849</b>	<b>1362</b>	<b>1528</b>	<b>2680</b>	<b>2280</b>	<b>2463</b>	<b>2451</b>	<b>2390</b>	<b>1811</b>

Regional: Non-Hydro Renewable - Wind

Operating Year: 2029 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.74
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.88
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.30
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.49
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.20
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.70
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.75
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.13
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.31
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.29
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.87
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.56
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Stauer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.60
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.66
42 Klondike Wind 3	35.99	53.99	50.17	40.31	57.77	44.04	23.55	38.97	44.80	80.12	67.42	72.12	71.30	69.70	52.64
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.01
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.06
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.07	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09

Regional: Non-Hydro Renewable - Wind

Operating Year: 2029 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
49 Livingston Wind	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.50
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.58
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.18
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.65
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.58
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.58
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.60
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.23
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.65
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.95
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.64
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
74 Stalene Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.70
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.96
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.19
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.19
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.74
84 White Creek Wind	27.68	41.52	38.58	31.00	44.43	33.86	18.11	29.96	34.45	61.61	51.84	55.46	54.83	53.60	40.48
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.18
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.95
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.89
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.19
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1291</b>	<b>1878</b>	<b>1729</b>	<b>1388</b>	<b>1973</b>	<b>1514</b>	<b>846</b>	<b>1357</b>	<b>1522</b>	<b>2670</b>	<b>2272</b>	<b>2454</b>	<b>2451</b>	<b>2390</b>	<b>1807</b>

**Regional: Non-Hydro Renewable - Wind**

**Operating Year: 2030 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
1 3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2 Bennett Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
3 Benson Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
4 Big Horn Wind	40.16	60.24	55.98	44.98	64.46	49.14	26.28	43.48	49.99	89.40	75.22	80.47	79.56	77.77	58.74
5 Biglow Canyon Wind	72.38	108.58	100.90	81.08	116.19	88.57	47.37	78.37	90.10	161.14	135.58	145.04	143.40	140.18	105.88
6 Burley Butte Wind	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
7 Camp Reed Wind	3.62	5.43	5.05	4.06	5.81	4.43	2.37	3.92	4.51	8.06	6.78	7.26	7.18	7.01	5.30
8 Cassia Farms Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
9 Cassia Gulch Wind	3.04	4.56	4.24	3.41	4.88	3.72	1.99	3.29	3.79	6.77	5.70	6.10	6.03	5.89	4.45
10 Chopin Wind	3.25	3.18	1.64	2.46	2.29	1.84	2.64	2.01	1.07	1.78	2.04	3.66	3.08	3.29	2.43
11 Cold Springs Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
12 Combine Hills Wind	16.74	25.11	23.33	18.75	26.87	20.48	10.95	18.12	20.84	37.27	31.36	33.54	33.16	32.42	24.49
13 Condon Wind	8.02	12.02	11.17	8.98	12.87	9.81	5.25	8.68	9.98	17.85	15.02	16.06	15.88	15.52	11.72
14 Deep Creek Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 Desert Meadow Windfarm	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
16 Durbin Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
17 Echo Wind Farm	10.39	15.59	14.48	11.64	16.68	12.71	6.80	11.25	12.93	23.13	19.46	20.82	20.58	20.12	15.20
18 Elkhorn Valley Wind Project	16.20	24.30	22.58	18.15	26.01	19.82	10.60	17.54	20.17	36.07	30.35	32.46	32.10	31.37	23.70
19 Foote Creek 1 Wind	6.66	10.00	9.29	7.46	10.70	8.15	4.36	7.21	8.29	14.84	12.48	13.35	13.20	12.91	9.75
20 Foote Creek 2 Wind	0.29	0.44	0.40	0.33	0.47	0.36	0.19	0.31	0.36	0.65	0.54	0.58	0.57	0.56	0.42
21 Foote Creek 4 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 Fossil Gulch Wind Project	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
23 Golden Valley Wind	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
24 Goodnoe Hills Wind	15.13	22.70	21.09	16.95	24.29	18.51	9.90	16.38	18.83	33.68	28.34	30.32	29.98	29.30	22.13
25 Goshen North (Ridgeline Wind)	20.04	30.06	27.93	22.45	32.17	24.52	13.11	21.70	24.94	44.61	37.54	40.15	39.70	38.81	29.31
26 Grayland Wind	0.97	1.45	1.35	1.08	1.55	1.18	0.63	1.05	1.20	2.15	1.81	1.94	1.91	1.87	1.41
27 Hammett Hill Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
28 Harvest Wind	15.92	23.88	22.19	17.83	25.55	19.48	10.42	17.23	19.81	35.44	29.82	31.90	31.54	30.83	23.29
29 Hay Canyon Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
30 Healow 2 Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 High Mesa Wind	6.42	9.63	8.95	7.19	10.31	7.86	4.20	6.95	7.99	14.30	12.03	12.87	12.72	12.44	9.39
32 Hopkins Ridge Wind	25.21	37.81	35.14	28.23	40.46	30.84	16.49	27.29	31.38	56.11	47.22	50.51	49.94	48.81	36.87
33 Horse Butte Wind	9.27	13.91	12.92	10.38	14.88	11.34	6.07	10.04	11.54	20.64	17.37	18.58	18.37	17.95	13.56
34 Horseshoe Bend Wind Project	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
35 Hot Springs Wind	3.19	4.78	4.44	3.57	5.12	3.90	2.09	3.45	3.97	7.10	5.97	6.39	6.31	6.17	4.66
36 Jett Creek Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
37 Josef Staufer - Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Juniper Canyon Wind	24.34	36.51	33.92	27.26	39.07	29.78	15.93	26.35	30.29	54.18	45.59	48.77	48.22	47.13	35.60
39 Kittitas Valley Wind	16.22	24.34	22.62	18.17	26.04	19.85	10.62	17.57	20.20	36.12	30.39	32.51	32.14	31.42	23.73
40 Klondike Wind 1	3.86	5.80	5.39	4.33	6.20	4.73	2.53	4.18	4.81	8.60	7.24	7.74	7.65	7.48	5.65
41 Klondike Wind 2	12.07	18.11	16.83	13.52	19.38	14.77	7.90	13.07	15.03	26.87	22.61	24.19	23.92	23.38	17.66
42 Klondike Wind 3	35.99	53.99	50.17	40.31	57.77	44.04	23.55	38.97	44.80	80.12	67.42	72.12	71.30	69.70	52.64
43 Klondike Wind 3a	12.31	18.47	17.16	13.79	19.77	15.07	8.06	13.33	15.33	27.41	23.07	24.67	24.39	23.85	18.01
44 Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
45 Leaning Juniper Wind	48.58	72.87	67.71	54.41	77.98	59.44	31.79	52.59	60.47	108.14	90.99	97.34	96.24	94.07	71.06
46 Lewandowski Farms Wind	0.11	0.10	0.08	0.08	0.08	0.07	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09



**Regional: Non-Hydro Renewable - Wind**

**Operating Year: 2030 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Wind</b>															
47 Lime Wind	0.48	0.72	0.67	0.54	0.78	0.59	0.32	0.52	0.60	1.08	0.91	0.97	0.96	0.94	0.71
48 Linden Ranch Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
49 Livingston Wind	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01
50 Lower Snake Wind	98.10	147.16	136.75	109.88	157.48	120.04	64.20	106.21	122.11	218.40	183.76	196.58	194.36	189.99	143.50
51 Mainline Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
52 Marengo Wind	33.90	50.85	47.25	37.97	54.41	41.48	22.18	36.70	42.19	75.46	63.50	67.92	67.16	65.65	49.58
53 Meadow Creek Wind	19.27	28.90	26.86	21.58	30.93	23.57	12.61	20.86	23.98	42.89	36.09	38.61	38.17	37.31	28.18
54 Milner Dam Wind Farm	3.14	4.71	4.38	3.52	5.04	3.84	2.05	3.40	3.91	6.99	5.88	6.29	6.22	6.08	4.59
55 Montague	65.15	64.41	62.97	32.51	48.77	45.32	36.42	52.19	39.78	21.28	35.20	40.47	72.38	60.90	48.65
56 Nine Canyon Wind	15.43	23.15	21.52	17.29	24.78	18.89	10.10	16.71	19.21	34.36	28.91	30.93	30.58	29.89	22.58
57 Oregon Trail Wind	2.17	3.26	3.03	2.43	3.49	2.66	1.42	2.35	2.71	4.84	4.07	4.35	4.31	4.21	3.18
58 Palouse Wind	16.80	25.21	23.42	18.82	26.97	20.56	11.00	18.19	20.92	37.41	31.48	33.67	33.29	32.54	24.58
59 PaTu Wind	1.45	2.17	2.02	1.62	2.33	1.77	0.95	1.57	1.80	3.23	2.71	2.90	2.87	2.81	2.12
60 Paynes Ferry Wind Park	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
61 Pebble Springs Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
62 Pilgrim Stage Station Wind Park	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
63 Power County Wind	7.24	10.87	10.10	8.11	11.63	8.86	4.74	7.84	9.02	16.13	13.57	14.51	14.35	14.03	10.60
64 Prospector Wind	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
65 Rattlesnake Road Wind Farm	16.56	24.85	23.09	18.55	26.59	20.27	10.84	17.93	20.62	36.87	31.02	33.19	32.81	32.08	24.23
66 Rock River Wind	8.05	12.07	11.22	9.01	12.92	9.85	5.27	8.71	10.02	17.92	15.08	16.13	15.94	15.59	11.77
67 Rockland wind	12.75	19.12	17.77	14.28	20.46	15.60	8.34	13.80	15.87	28.38	23.88	25.54	25.26	24.69	18.65
68 Ryegrass Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
69 Salmon Falls Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
70 Sawtooth Wind	3.61	5.41	5.03	4.04	5.79	4.41	2.36	3.90	4.49	8.03	6.75	7.22	7.14	6.98	5.27
71 Shepherds Flat Wind	136.00	204.02	189.59	152.34	218.32	166.42	89.00	147.25	169.29	302.78	254.77	272.53	269.45	263.40	198.95
72 Skookumchuck Wind	43.69	42.70	22.05	33.08	30.74	24.70	35.40	26.98	14.43	23.87	27.45	49.09	41.31	44.19	32.64
73 Star Point Wind	15.89	23.83	22.15	17.79	25.50	19.44	10.40	17.20	19.77	35.37	29.76	31.83	31.47	30.77	23.24
74 Stalene Wind	48.33	72.51	67.38	54.14	77.59	59.14	31.63	52.33	60.17	107.61	90.54	96.85	95.76	93.61	70.70
75 Swauk Wind	0.68	1.03	0.95	0.77	1.10	0.84	0.45	0.74	0.85	1.52	1.28	1.37	1.36	1.33	1.00
76 Thousand Springs Wind Park	1.93	2.90	2.69	2.16	3.10	2.36	1.26	2.09	2.40	4.30	3.62	3.87	3.83	3.74	2.83
77 Threemile Canyon Wind	1.59	2.39	2.22	1.79	2.56	1.95	1.04	1.73	1.98	3.55	2.99	3.19	3.16	3.09	2.33
78 Tuana Gulch Wind	1.69	2.54	2.36	1.89	2.71	2.07	1.11	1.83	2.10	3.76	3.17	3.39	3.35	3.27	2.47
79 Tuana Springs Wind	2.70	4.06	3.77	3.03	4.34	3.31	1.77	2.93	3.37	6.02	5.07	5.42	5.36	5.24	3.96
80 Two Ponds Wind	3.70	5.55	5.16	4.15	5.94	4.53	2.42	4.01	4.61	8.24	6.94	7.42	7.33	7.17	5.42
81 Vansycle Wind	19.96	29.94	27.82	22.36	32.04	24.42	13.06	21.61	24.84	44.43	37.39	39.99	39.54	38.65	29.19
82 Vantage Wind	14.49	21.73	20.19	16.23	23.25	17.73	9.48	15.68	18.03	32.25	27.14	29.03	28.70	28.05	21.19
83 Wheat Field Wind	15.55	23.32	21.67	17.42	24.96	19.03	10.17	16.83	19.35	34.61	29.13	31.16	30.80	30.11	22.74
84 White Creek Wind	27.68	41.52	38.58	31.00	44.43	33.86	18.11	29.96	34.45	61.61	51.84	55.46	54.83	53.60	40.48
85 Wild Horse Wind	43.88	65.82	61.16	49.15	70.43	53.69	28.71	47.50	54.62	97.68	82.19	87.92	86.93	84.97	64.18
86 Willow Creek Wind	11.59	17.38	16.15	12.98	18.60	14.18	7.58	12.55	14.43	25.80	21.71	23.22	22.96	22.44	16.95
87 Willow Spring Wind Farm	1.61	2.41	2.24	1.80	2.58	1.97	1.05	1.74	2.00	3.58	3.02	3.23	3.19	3.12	2.35
88 Windy Point Wind	64.19	96.29	89.48	71.90	103.04	78.54	42.00	69.50	79.90	142.90	120.24	128.62	127.17	124.31	93.89
89 Wolverine Creek Wind	10.38	15.57	14.47	11.63	16.67	12.70	6.79	11.24	12.92	23.11	19.45	20.80	20.57	20.11	15.19
90 Yahoo Creek Wind	3.38	5.07	4.71	3.79	5.43	4.14	2.21	3.66	4.21	7.53	6.33	6.77	6.70	6.55	4.94
<b>91 Total Non-Hydro Renewable - Wind</b>	<b>1291</b>	<b>1878</b>	<b>1729</b>	<b>1388</b>	<b>1973</b>	<b>1514</b>	<b>846</b>	<b>1357</b>	<b>1522</b>	<b>2670</b>	<b>2272</b>	<b>2454</b>	<b>2451</b>	<b>2390</b>	<b>1807</b>

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***Exhibit 34***  
***Regional Non-Hydro Renewable - Solar***  
***Monthly Energy***  
***Operating Year 2021 to 2030***

Regional: Non-Hydro Renewable - Solar

Operating Year: 2021 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

**Regional: Non-Hydro Renewable - Solar**

**Operating Year: 2021    Water Year: 1937**

**2019 White Book    Report Date: 2/4/2020    *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>216</b>	<b>216</b>	<b>201</b>	<b>166</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

Regional: Non-Hydro Renewable - Solar

Operating Year: 2022 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hylina Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Regional: Non-Hydro Renewable - Solar

Operating Year: 2022 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

Regional: Non-Hydro Renewable - Solar

Operating Year: 2023 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



Regional: Non-Hydro Renewable - Solar

Operating Year: 2023 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

Regional: Non-Hydro Renewable - Solar

Operating Year: 2024 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.6
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Regional: Non-Hydro Renewable - Solar

Operating Year: 2024 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

**Regional: Non-Hydro Renewable - Solar**  
**Operating Year: 2025    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Regional: Non-Hydro Renewable - Solar

Operating Year: 2025 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

**Regional: Non-Hydro Renewable - Solar**  
**Operating Year: 2026    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

**Regional: Non-Hydro Renewable - Solar**

**Operating Year: 2026 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020 *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

Regional: Non-Hydro Renewable - Solar

Operating Year: 2027 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



**Regional: Non-Hydro Renewable - Solar**

**Operating Year: 2027    Water Year: 1937**

**2019 White Book    Report Date: 2/4/2020    *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

Regional: Non-Hydro Renewable - Solar

Operating Year: 2028 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.6
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

**Regional: Non-Hydro Renewable - Solar**

**Operating Year: 2028    Water Year: 1937**

**2019 White Book    Report Date: 2/4/2020    *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

**Regional: Non-Hydro Renewable - Solar**  
**Operating Year: 2029 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hylina Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Regional: Non-Hydro Renewable - Solar

Operating Year: 2029 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

**Regional: Non-Hydro Renewable - Solar**

**Operating Year: 2030    Water Year: 1937**

**2019 White Book    Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 Airport Solar	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
5 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
6 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
9 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
11 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
12 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
13 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
14 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
16 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18 Chiloquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
19 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
22 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
24 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
29 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
30 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
32 Garrett Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
33 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
35 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
36 Horn Rapids Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
38 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
39 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
41 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
42 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
43 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

**Regional: Non-Hydro Renewable - Solar**

**Operating Year: 2030 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020 Continued**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Solar</b>															
45 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
47 Millican Solar	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
48 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4
49 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
51 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
52 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
53 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
54 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
55 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
56 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
57 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
58 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
59 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
61 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62 Prineville Solar	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
63 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
64 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
68 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
69 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
70 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
71 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
73 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
74 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
79 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
<b>81 Total Non-Hydro Renewable - Solar</b>	<b>218</b>	<b>218</b>	<b>203</b>	<b>168</b>	<b>139</b>	<b>119</b>	<b>111</b>	<b>126</b>	<b>156</b>	<b>185</b>	<b>185</b>	<b>213</b>	<b>223</b>	<b>237</b>	<b>175</b>

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***Exhibit 35***  
***Regional Non-Hydro Renewable - Other***

***Monthly Energy***  
***Operating Year 2021 to 2030***

Regional: Non-Hydro Renewable - Other

Operating Year: 2021 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	23.1	46.3	44.4
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3

**Regional: Non-Hydro Renewable - Other**

**Operating Year: 2021 Water Year: 1937**

**2019 White Book** Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>179</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>179</b>	<b>154</b>	<b>200</b>	<b>177</b>

Regional: Non-Hydro Renewable - Other

Operating Year: 2022 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	23.1	46.3	43.4
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3

Regional: Non-Hydro Renewable - Other

Operating Year: 2022 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>178</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>168</b>	<b>154</b>	<b>200</b>	<b>176</b>

Regional: Non-Hydro Renewable - Other

Operating Year: 2023 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	23.1	46.3	43.4
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3

Regional: Non-Hydro Renewable - Other

Operating Year: 2023 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>178</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>168</b>	<b>154</b>	<b>200</b>	<b>176</b>

Regional: Non-Hydro Renewable - Other

Operating Year: 2024 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.9	14.9	14.4	14.4	14.9	14.4	14.9	14.7
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	27.8	46.3	44.7
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3



Regional: Non-Hydro Renewable - Other

Operating Year: 2024 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>179</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>179</b>	<b>158</b>	<b>200</b>	<b>178</b>

**Regional: Non-Hydro Renewable - Other**  
**Operating Year: 2025    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	23.1	46.3
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3

Regional: Non-Hydro Renewable - Other

Operating Year: 2025 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>178</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>179</b>	<b>154</b>	<b>200</b>	<b>177</b>

Regional: Non-Hydro Renewable - Other

Operating Year: 2026 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	23.1	46.3	43.4
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3

**Regional: Non-Hydro Renewable - Other**

**Operating Year: 2026 Water Year: 1937**

**2019 White Book** Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>178</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>168</b>	<b>154</b>	<b>200</b>	<b>176</b>

Regional: Non-Hydro Renewable - Other

Operating Year: 2027 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg	
<b>Non-Hydro Renewable - Other</b>																
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4	
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.4	1.3	
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6	
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4	
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0	
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3	
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2	
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3	
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3	
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	23.1	46.3	43.4	
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0	
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6	
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3	

Regional: Non-Hydro Renewable - Other

Operating Year: 2027 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>178</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>178</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>168</b>	<b>154</b>	<b>200</b>	<b>176</b>

**Regional: Non-Hydro Renewable - Other**  
**Operating Year: 2028 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.4	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.9	14.9	14.4	14.4	14.9	14.4	14.9	14.7
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	27.8	46.3	44.7
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3



Regional: Non-Hydro Renewable - Other

Operating Year: 2028 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>177</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>179</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>179</b>	<b>158</b>	<b>200</b>	<b>178</b>

**Regional: Non-Hydro Renewable - Other**

**Operating Year: 2029 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.4	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	23.1	46.3	44.4
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3

Regional: Non-Hydro Renewable - Other

Operating Year: 2029 Water Year: 1937

2019 White Book Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>177</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>178</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>179</b>	<b>154</b>	<b>200</b>	<b>177</b>

Regional: Non-Hydro Renewable - Other

Operating Year: 2030 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
1 Bannock County Landfill	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	1.6	1.6	2.2	2.6	26.0	4.4
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.4	1.4	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	23.1	46.3	43.4
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3

**Regional: Non-Hydro Renewable - Other**

**Operating Year: 2030 Water Year: 1937**

**2019 White Book** Report Date: 2/4/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Non-Hydro Renewable - Other</b>															
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>49 Total Non-Hydro Renewable - Other</b>	<b>178</b>	<b>178</b>	<b>177</b>	<b>179</b>	<b>179</b>	<b>179</b>	<b>168</b>	<b>178</b>	<b>179</b>	<b>177</b>	<b>177</b>	<b>168</b>	<b>154</b>	<b>200</b>	<b>176</b>

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***Exhibit 36***  
***Regional Thermal - Nuclear***  
  
***Monthly Energy***  
***Operating Year 2020 to 2029***

**Regional: Thermal - Nuclear**  
**Operating Year: 2021 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>360</b>	<b>409</b>	<b>1116</b>	<b>994</b>



**Regional: Thermal - Nuclear**  
**Operating Year: 2022 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>

**Regional: Thermal - Nuclear**  
**Operating Year: 2023 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>360</b>	<b>409</b>	<b>1116</b>	<b>994</b>

**Regional: Thermal - Nuclear**  
**Operating Year: 2024 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>

**Regional: Thermal - Nuclear**  
**Operating Year: 2025 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>360</b>	<b>409</b>	<b>1116</b>	<b>994</b>

**Regional: Thermal - Nuclear**  
**Operating Year: 2026 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>

**Regional: Thermal - Nuclear**  
**Operating Year: 2027 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>360</b>	<b>409</b>	<b>1116</b>	<b>994</b>

**Regional: Thermal - Nuclear**  
**Operating Year: 2028    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>

**Regional: Thermal - Nuclear**  
**Operating Year: 2029 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>360</b>	<b>409</b>	<b>1116</b>	<b>994</b>



**Regional: Thermal - Nuclear**  
**Operating Year: 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Nuclear</b>															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
<b>2 Total Thermal - Nuclear</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>	<b>1116</b>

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***Exhibit 37***  
***Regional Thermal - Coal***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional: Thermal - Coal**  
**Operating Year: 2021 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	489.2	489.2	489.2	489.2	489.2	489.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	205.1
2 Centralia Complex	1252.6	1252.6	1252.6	1252.6	1252.6	626.3	626.3	626.3	626.3	626.3	626.3	333.3	626.3	626.3	810.8
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1792.0	1595.5	1924.2	1924.2	1908.8	1878.5
6 Valmy	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7	152.0	234.7	234.7	209.2	234.7	234.7	225.5
<b>7 Total Thermal - Coal</b>	<b>5051</b>	<b>5052</b>	<b>5055</b>	<b>5056</b>	<b>5054</b>	<b>4431</b>	<b>3943</b>	<b>3942</b>	<b>3678</b>	<b>3823</b>	<b>3626</b>	<b>3640</b>	<b>3956</b>	<b>3939</b>	<b>4290</b>

**Regional: Thermal - Coal**  
**Operating Year: 2022 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	596.1	313.2	313.2	535.6	626.3	626.3	590.3
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1135.8	489.0	489.0	779.0	1098.0	1159.7	1065.1
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1924.2	1480.8	1284.3	1924.2	1924.2	1908.8	1869.4
6 Valmy	234.7	234.7	234.7	234.7	234.7	234.7	120.3	120.3	77.9	120.3	120.3	107.2	120.3	120.3	163.5
<b>7 Total Thermal - Coal</b>	<b>3936</b>	<b>3936</b>	<b>3940</b>	<b>3941</b>	<b>3938</b>	<b>3942</b>	<b>3828</b>	<b>3827</b>	<b>3745</b>	<b>2413</b>	<b>2217</b>	<b>3359</b>	<b>3780</b>	<b>3824</b>	<b>3699</b>

**Regional: Thermal - Coal**  
**Operating Year: 2023 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	596.1	313.2	313.2	535.6	626.3	626.3	590.3
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1154.9	1159.7	1126.2	690.2	690.2	799.9	1095.6	1159.7	1082.0
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1792.0	1595.5	1924.2	1924.2	1908.8	1878.5
6 Valmy	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	77.9	120.3	120.3	107.2	120.3	120.3	115.5
<b>7 Total Thermal - Coal</b>	<b>3821</b>	<b>3822</b>	<b>3825</b>	<b>3826</b>	<b>3824</b>	<b>3828</b>	<b>3823</b>	<b>3827</b>	<b>3541</b>	<b>2926</b>	<b>2729</b>	<b>3380</b>	<b>3778</b>	<b>3824</b>	<b>3677</b>

**Regional: Thermal - Coal**  
**Operating Year: 2024 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	333.3	626.3	626.3	601.5
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1154.9	1159.7	1159.7	1159.7	1159.7	1108.4	1095.6	1159.7	1149.7
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1924.2	1737.4	1540.9	1602.1	1924.2	1908.8	1863.3
6 Valmy	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	77.9	120.3	120.3	107.2	120.3	120.3	115.6
<b>7 Total Thermal - Coal</b>	<b>3821</b>	<b>3822</b>	<b>3825</b>	<b>3826</b>	<b>3824</b>	<b>3828</b>	<b>3823</b>	<b>3827</b>	<b>3799</b>	<b>3654</b>	<b>3457</b>	<b>3164</b>	<b>3778</b>	<b>3824</b>	<b>3741</b>

**Regional: Thermal - Coal**  
**Operating Year: 2025 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	333.3	626.3	626.3	601.4
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1154.9	1159.7	1135.8	489.0	489.0	773.1	1095.6	1159.7	1064.0
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1743.4	1546.9	1924.2	1924.2	1908.8	1874.5
6 Valmy	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	77.9	120.3	120.3	107.2	120.3	120.3	115.5
<b>7 Total Thermal - Coal</b>	<b>3821</b>	<b>3822</b>	<b>3825</b>	<b>3826</b>	<b>3824</b>	<b>3828</b>	<b>3823</b>	<b>3827</b>	<b>3580</b>	<b>2989</b>	<b>2792</b>	<b>3151</b>	<b>3778</b>	<b>3824</b>	<b>3666</b>



**Regional: Thermal - Coal**  
**Operating Year: 2026 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	209.4
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1154.9	1159.7	1126.2	690.2	690.2	799.9	1095.6	1159.7	1082.0
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1892.4	1469.9	1273.4	1602.1	1924.2	1908.8	1838.5
6 Valmy	120.3	120.3	120.3	120.3	120.3	120.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.4
<b>7 Total Thermal - Coal</b>	<b>3821</b>	<b>3822</b>	<b>3825</b>	<b>3826</b>	<b>3824</b>	<b>3201</b>	<b>3077</b>	<b>3081</b>	<b>3029</b>	<b>2170</b>	<b>1974</b>	<b>2415</b>	<b>3031</b>	<b>3078</b>	<b>3191</b>

**Regional: Thermal - Coal**  
**Operating Year: 2027 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1154.9	1159.7	1159.7	1159.7	1159.7	1108.4	1095.6	1159.7	1149.7
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1792.0	1595.5	1924.2	1924.2	1908.8	1878.5
6 Valmy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>7 Total Thermal - Coal</b>	<b>3075</b>	<b>3075</b>	<b>3079</b>	<b>3080</b>	<b>3077</b>	<b>3081</b>	<b>3077</b>	<b>3081</b>	<b>2900</b>	<b>2962</b>	<b>2765</b>	<b>3046</b>	<b>3031</b>	<b>3078</b>	<b>3039</b>

**Regional: Thermal - Coal**  
**Operating Year: 2028    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1154.9	1159.7	1135.8	489.0	489.0	773.1	1095.6	1159.7	1064.3
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1924.2	1480.8	1284.3	1924.2	1924.2	1908.8	1869.5
6 Valmy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>7 Total Thermal - Coal</b>	<b>3075</b>	<b>3075</b>	<b>3079</b>	<b>3080</b>	<b>3077</b>	<b>3081</b>	<b>3077</b>	<b>3081</b>	<b>3071</b>	<b>1980</b>	<b>1783</b>	<b>2711</b>	<b>3031</b>	<b>3078</b>	<b>2945</b>

**Regional: Thermal - Coal**  
**Operating Year: 2029 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1154.9	1159.7	1126.2	690.2	690.2	799.9	1095.6	1159.7	1082.0
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1792.0	1595.5	1924.2	1924.2	1908.8	1878.5
6 Valmy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>7 Total Thermal - Coal</b>	<b>3075</b>	<b>3075</b>	<b>3079</b>	<b>3080</b>	<b>3077</b>	<b>3081</b>	<b>3077</b>	<b>3081</b>	<b>2867</b>	<b>2492</b>	<b>2296</b>	<b>2737</b>	<b>3031</b>	<b>3078</b>	<b>2971</b>

**Regional: Thermal - Coal**  
**Operating Year: 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Coal</b>															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1154.9	1159.7	1159.7	1159.7	1159.7	1108.4	1095.6	1159.7	1149.7
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1924.2	1737.4	1540.9	1602.1	1924.2	1908.8	1863.2
6 Valmy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>7 Total Thermal - Coal</b>	<b>3075</b>	<b>3075</b>	<b>3079</b>	<b>3080</b>	<b>3077</b>	<b>3081</b>	<b>3077</b>	<b>3081</b>	<b>3095</b>	<b>2907</b>	<b>2711</b>	<b>2724</b>	<b>3031</b>	<b>3078</b>	<b>3024</b>

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***Exhibit 38***  
***Regional Thermal - Natural Gas***  
***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional: Thermal - Natural Gas**  
**Operating Year: 2021 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	488.7	490.2	483.6	324.2	317.6	470.3	461.9
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	87.5	148.2	227.9	211.6
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	535.5	583.7	581.6	568.9	587.0	576.0	370.7	283.7	543.4	558.9	557.6	545.0
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	150.9
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>6092</b>	<b>6099</b>	<b>6163</b>	<b>6227</b>	<b>6360</b>	<b>6431</b>	<b>6424</b>	<b>6381</b>	<b>6318</b>	<b>6000</b>	<b>4905</b>	<b>3948</b>	<b>4609</b>	<b>6094</b>	<b>5874</b>



**Regional: Thermal - Natural Gas**  
**Operating Year: 2022 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	487.9	490.2	483.6	324.2	317.6	470.3	461.8
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	535.5	583.7	581.6	568.9	587.0	576.0	345.3	309.1	543.4	558.9	557.6	545.0
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	150.9
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>6092</b>	<b>6099</b>	<b>6163</b>	<b>6227</b>	<b>6360</b>	<b>6431</b>	<b>6424</b>	<b>6381</b>	<b>6318</b>	<b>5975</b>	<b>4931</b>	<b>3934</b>	<b>4609</b>	<b>6094</b>	<b>5872</b>

**Regional: Thermal - Natural Gas**  
**Operating Year: 2023    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	487.1	482.2	482.0	324.2	316.8	470.3	461.3
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	138.8	138.8	113.0	116.3	119.6	121.2	121.6	119.9	119.1	117.6	117.6	76.6	74.2	111.4	112.5
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	535.5	583.7	581.6	568.9	587.0	576.0	548.0	562.4	543.4	558.9	557.6	563.7
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	150.9
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>6092</b>	<b>6099</b>	<b>6134</b>	<b>6198</b>	<b>6330</b>	<b>6400</b>	<b>6393</b>	<b>6351</b>	<b>6287</b>	<b>6140</b>	<b>5153</b>	<b>3914</b>	<b>4590</b>	<b>6067</b>	<b>5865</b>

**Regional: Thermal - Natural Gas**  
**Operating Year: 2024 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	485.6	495.9	502.6	501.8	499.7	475.2	483.5	482.2	482.0	324.2	316.8	470.3	459.3
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.9
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.5
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.8
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.6
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	111.0	111.0	113.0	116.3	119.6	121.2	121.6	119.9	119.1	117.6	117.6	76.6	74.2	111.4	110.1
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.7
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.9
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.5
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.6
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	109.4	118.5	227.9	211.1
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.8
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	535.5	583.7	581.6	568.9	587.0	576.0	370.7	315.4	322.7	558.9	557.6	527.7
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	151.0
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.5
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.6
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.1
<b>30 Total Thermal - Natural Gas</b>	<b>6064</b>	<b>6071</b>	<b>6134</b>	<b>6198</b>	<b>6330</b>	<b>6400</b>	<b>6393</b>	<b>6330</b>	<b>6284</b>	<b>5963</b>	<b>4906</b>	<b>3730</b>	<b>4560</b>	<b>6067</b>	<b>5827</b>

**Regional: Thermal - Natural Gas**  
**Operating Year: 2025 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	485.6	495.9	502.6	501.8	499.7	474.5	483.5	482.2	482.0	324.2	316.8	470.3	459.2
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	111.0	111.0	113.0	116.3	119.6	121.2	121.6	119.9	119.1	117.6	117.6	76.6	74.2	111.4	110.1
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	87.5	148.2	227.9	211.6
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	533.1	583.7	581.6	568.9	587.0	576.0	370.7	315.4	322.7	558.9	557.6	527.3
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	150.9
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>6064</b>	<b>6071</b>	<b>6134</b>	<b>6195</b>	<b>6330</b>	<b>6400</b>	<b>6393</b>	<b>6329</b>	<b>6284</b>	<b>5963</b>	<b>4906</b>	<b>3708</b>	<b>4590</b>	<b>6067</b>	<b>5826</b>

**Regional: Thermal - Natural Gas**  
**Operating Year: 2026    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	485.6	495.9	502.6	501.8	499.7	474.5	483.5	482.2	482.0	324.2	316.8	470.3	459.2
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	111.0	111.0	113.0	116.3	119.6	121.2	121.6	119.9	119.1	117.6	117.6	76.6	74.2	111.4	110.1
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	533.1	583.7	581.6	568.9	587.0	576.0	370.7	315.4	322.7	558.9	557.6	527.3
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	150.9
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>6064</b>	<b>6071</b>	<b>6134</b>	<b>6195</b>	<b>6330</b>	<b>6400</b>	<b>6393</b>	<b>6329</b>	<b>6284</b>	<b>5963</b>	<b>4906</b>	<b>3694</b>	<b>4590</b>	<b>6067</b>	<b>5824</b>

**Regional: Thermal - Natural Gas**  
**Operating Year: 2027    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	485.6	495.9	502.6	501.8	499.7	474.5	483.5	482.2	482.0	324.2	316.8	470.3	459.2
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	111.0	111.0	113.0	116.3	119.6	121.2	121.6	119.9	119.1	117.6	117.6	76.6	74.2	111.4	110.1
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	533.1	583.7	581.6	568.9	587.0	576.0	370.7	315.4	322.7	558.9	557.6	527.3
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	150.9
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>6064</b>	<b>6071</b>	<b>6134</b>	<b>6195</b>	<b>6330</b>	<b>6400</b>	<b>6393</b>	<b>6329</b>	<b>6284</b>	<b>5963</b>	<b>4906</b>	<b>3694</b>	<b>4590</b>	<b>6067</b>	<b>5824</b>

**Regional: Thermal - Natural Gas**  
**Operating Year: 2028    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	485.6	495.9	502.6	501.8	499.7	475.2	483.5	482.2	482.0	324.2	316.8	470.3	459.3
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.9
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.5
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.8
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.6
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	111.0	111.0	113.0	116.3	119.6	121.2	121.6	119.9	119.1	117.6	117.6	76.6	74.2	111.4	110.1
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.7
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.9
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.5
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.6
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	109.4	118.5	227.9	211.1
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.8
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	533.1	583.7	581.6	568.9	587.0	576.0	370.7	315.4	322.7	558.9	557.6	527.5
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	151.0
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.5
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.6
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.1
<b>30 Total Thermal - Natural Gas</b>	<b>6064</b>	<b>6071</b>	<b>6134</b>	<b>6195</b>	<b>6330</b>	<b>6400</b>	<b>6393</b>	<b>6330</b>	<b>6284</b>	<b>5963</b>	<b>4906</b>	<b>3730</b>	<b>4560</b>	<b>6067</b>	<b>5827</b>

**Regional: Thermal - Natural Gas**  
**Operating Year: 2029    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	485.6	495.9	502.6	501.8	499.7	474.5	483.5	482.2	482.0	324.2	316.8	470.3	459.2
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	111.0	111.0	113.0	116.3	119.6	121.2	121.6	119.9	119.1	117.6	117.6	76.6	74.2	111.4	110.1
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	87.5	148.2	227.9	211.6
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	533.1	583.7	581.6	568.9	587.0	576.0	370.7	315.4	322.7	558.9	557.6	527.3
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	150.9
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>6064</b>	<b>6071</b>	<b>6134</b>	<b>6195</b>	<b>6330</b>	<b>6400</b>	<b>6393</b>	<b>6329</b>	<b>6284</b>	<b>5963</b>	<b>4906</b>	<b>3708</b>	<b>4590</b>	<b>6067</b>	<b>5826</b>



**Regional: Thermal - Natural Gas**  
**Operating Year: 2030    Water Year: 1937**  
**2019 White Book    Report Date: 2/4/2020**  
S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Natural Gas</b>															
1 Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2 Beaver	470.3	476.9	485.6	495.9	502.6	501.8	499.7	474.5	483.5	482.2	482.0	324.2	316.8	470.3	459.2
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	378.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	446.3
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	111.0	111.0	113.0	116.3	119.6	121.2	121.6	119.9	119.1	117.6	117.6	76.6	74.2	111.4	110.1
11 Frederickson Power Project	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 Northeast 1 & 2	41.8	41.8	43.7	57.0	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	52.7
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	559.1	559.6	559.4	533.1	583.7	581.6	568.9	587.0	576.0	370.7	315.4	322.7	558.9	557.6	527.3
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	148.2	140.6	138.7	150.9
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
<b>30 Total Thermal - Natural Gas</b>	<b>5983</b>	<b>6071</b>	<b>6134</b>	<b>6195</b>	<b>6330</b>	<b>6400</b>	<b>6393</b>	<b>6329</b>	<b>6284</b>	<b>5963</b>	<b>4906</b>	<b>3694</b>	<b>4590</b>	<b>6067</b>	<b>5821</b>

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***Exhibit 39***  
***Regional Thermal - Petroleum***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***

Regional: Thermal - Petroleum  
 Operating Year: 2021 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Regional: Thermal - Petroleum  
 Operating Year: 2022 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Regional: Thermal - Petroleum  
 Operating Year: 2023 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Regional: Thermal - Petroleum**  
**Operating Year: 2024 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Regional: Thermal - Petroleum  
 Operating Year: 2025 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Regional: Thermal - Petroleum  
 Operating Year: 2026 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Regional: Thermal - Petroleum  
 Operating Year: 2027 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Regional: Thermal - Petroleum  
 Operating Year: 2028 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Regional: Thermal - Petroleum  
 Operating Year: 2029 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Regional: Thermal - Petroleum  
 Operating Year: 2030 Water Year: 1937  
 2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Petroleum</b>															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>6 Total Thermal - Petroleum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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***Exhibit 40***  
***Regional Thermal - Biofuel***  
  
***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional: Thermal - Biofuel**

**Operating Year: 2021 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>



**Regional: Thermal - Biofuel**

**Operating Year: 2022 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>

Regional: Thermal - Biofuel

Operating Year: 2023 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>

**Regional: Thermal - Biofuel**

**Operating Year: 2024 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>

Regional: Thermal - Biofuel

Operating Year: 2025 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>

**Regional: Thermal - Biofuel**

**Operating Year: 2026 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>

**Regional: Thermal - Biofuel**

**Operating Year: 2027 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>

**Regional: Thermal - Biofuel**

**Operating Year: 2028 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>

Regional: Thermal - Biofuel

Operating Year: 2029 Water Year: 1937

2019 White Book Report Date: 2/4/2020

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>



**Regional: Thermal - Biofuel**

**Operating Year: 2030 Water Year: 1937**

**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Biofuel</b>															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>5 Total Thermal - Biofuel</b>	<b>24</b>	<b>24</b>	<b>26</b>	<b>27</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>25</b>	<b>26</b>	<b>26</b>

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***Exhibit 41***  
***Regional Thermal - Cogeneration***

***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional: Thermal - Cogeneration**  
**Operating Year: 2021 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	201.8	228.0	15.7	-17.0	196.4	228.0	228.0	202.5
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	458.5	466.5	426.6	460.8	335.0	412.0	0.0	412.2	409.4	431.5	408.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	11.9	11.9	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1

**Regional: Thermal - Cogeneration**

**Operating Year: 2021    Water Year: 1937**

**2019 White Book    Report Date: 2/4/2020    *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2425</b>	<b>2425</b>	<b>2429</b>	<b>2398</b>	<b>2507</b>	<b>2536</b>	<b>2497</b>	<b>2491</b>	<b>1736</b>	<b>2203</b>	<b>1622</b>	<b>2095</b>	<b>2356</b>	<b>2418</b>	<b>2315</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2022 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	201.8	228.0	-0.7	162.7	228.0	228.0	228.0	211.9
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.0	435.0	404.1	419.5	457.7	465.5	426.1	459.8	453.9	44.8	0.0	402.3	408.2	430.7	399.1
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	11.9	11.9	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1

**Regional: Thermal - Cogeneration**

**Operating Year: 2022 Water Year: 1937**

**2019 White Book** Report Date: **2/4/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2424</b>	<b>2424</b>	<b>2391</b>	<b>2404</b>	<b>2507</b>	<b>2535</b>	<b>2496</b>	<b>2490</b>	<b>1855</b>	<b>1819</b>	<b>1801</b>	<b>2116</b>	<b>2355</b>	<b>2417</b>	<b>2316</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2023 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	201.8	228.0	-164.0	32.0	228.0	228.0	228.0	199.8
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	420.7	466.5	429.0	460.6	336.7	418.2	0.0	395.5	406.3	398.8	401.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	15.0	15.0	9.1	7.0	16.1	16.7
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1



**Regional: Thermal - Cogeneration**

**Operating Year: 2023 Water Year: 1937**

**2019 White Book** Report Date: **2/4/2020** *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2425</b>	<b>2425</b>	<b>2429</b>	<b>2398</b>	<b>2470</b>	<b>2536</b>	<b>2499</b>	<b>2491</b>	<b>1737</b>	<b>2032</b>	<b>1674</b>	<b>2110</b>	<b>2353</b>	<b>2385</b>	<b>2306</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2024 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.6	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.5	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	201.0	228.0	-10.5	81.0	196.4	228.0	228.0	205.4
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.2
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.1
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	458.5	466.5	426.6	460.8	335.0	412.0	0.0	412.2	409.4	431.5	408.1
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.2
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	15.0	15.0	10.0	7.0	16.1	16.7
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1

**Regional: Thermal - Cogeneration**

**Operating Year: 2024    Water Year: 1937**

**2019 White Book    Report Date: 2/4/2020    *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2425</b>	<b>2425</b>	<b>2429</b>	<b>2398</b>	<b>2507</b>	<b>2536</b>	<b>2497</b>	<b>2490</b>	<b>1736</b>	<b>2180</b>	<b>1723</b>	<b>2096</b>	<b>2356</b>	<b>2418</b>	<b>2319</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2025 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	200.0	228.0	-10.5	81.0	196.4	228.0	228.0	205.3
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.0	435.0	404.1	419.5	457.7	465.5	426.1	459.8	453.9	44.8	0.0	402.3	408.2	430.7	399.1
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	12.0	12.0	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1

**Regional: Thermal - Cogeneration**

**Operating Year: 2025 Water Year: 1937**

**2019 White Book** Report Date: **2/4/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2424</b>	<b>2424</b>	<b>2391</b>	<b>2404</b>	<b>2507</b>	<b>2535</b>	<b>2496</b>	<b>2488</b>	<b>1855</b>	<b>1809</b>	<b>1720</b>	<b>2085</b>	<b>2355</b>	<b>2417</b>	<b>2309</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2026 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	200.0	228.0	-10.5	81.0	196.4	228.0	228.0	205.3
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	420.7	466.5	429.0	460.6	336.7	418.2	0.0	395.5	406.3	398.8	401.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	11.9	11.9	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1

**Regional: Thermal - Cogeneration**

**Operating Year: 2026 Water Year: 1937**

**2019 White Book** Report Date: **2/4/2020** *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2425</b>	<b>2425</b>	<b>2429</b>	<b>2398</b>	<b>2470</b>	<b>2536</b>	<b>2499</b>	<b>2489</b>	<b>1737</b>	<b>2183</b>	<b>1720</b>	<b>2078</b>	<b>2353</b>	<b>2385</b>	<b>2311</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2027 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	200.0	228.0	-10.5	81.0	196.4	228.0	228.0	205.3
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	458.5	466.5	426.6	460.8	335.0	412.0	0.0	412.2	409.4	431.5	408.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	11.9	11.9	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1



**Regional: Thermal - Cogeneration**

**Operating Year: 2027 Water Year: 1937**

**2019 White Book** Report Date: **2/4/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2425</b>	<b>2425</b>	<b>2429</b>	<b>2398</b>	<b>2507</b>	<b>2536</b>	<b>2497</b>	<b>2489</b>	<b>1736</b>	<b>2176</b>	<b>1720</b>	<b>2095</b>	<b>2356</b>	<b>2418</b>	<b>2318</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2028 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.6	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.5	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	201.0	228.0	-10.5	81.0	196.4	228.0	228.0	205.4
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.2
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.1
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.0	435.0	404.1	419.5	457.7	465.5	426.1	459.8	453.9	44.8	0.0	402.3	408.2	430.7	399.3
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.2
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	15.0	15.0	9.1	7.0	16.1	16.7
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1

**Regional: Thermal - Cogeneration**

**Operating Year: 2028    Water Year: 1937**

**2019 White Book    Report Date: 2/4/2020    *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2424</b>	<b>2424</b>	<b>2391</b>	<b>2404</b>	<b>2507</b>	<b>2535</b>	<b>2496</b>	<b>2489</b>	<b>1855</b>	<b>1812</b>	<b>1723</b>	<b>2085</b>	<b>2355</b>	<b>2417</b>	<b>2310</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2029 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	200.0	228.0	-10.5	81.0	196.4	228.0	228.0	205.3
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	420.7	466.5	429.0	460.6	336.7	418.2	0.0	395.5	406.3	398.8	401.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	15.0	15.0	10.0	7.0	16.1	16.7
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1

**Regional: Thermal - Cogeneration**

**Operating Year: 2029    Water Year: 1937**

**2019 White Book    Report Date: 2/4/2020    *Continued***

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2425</b>	<b>2425</b>	<b>2429</b>	<b>2398</b>	<b>2470</b>	<b>2536</b>	<b>2499</b>	<b>2489</b>	<b>1737</b>	<b>2186</b>	<b>1723</b>	<b>2079</b>	<b>2353</b>	<b>2385</b>	<b>2312</b>

**Regional: Thermal - Cogeneration**  
**Operating Year: 2030 Water Year: 1937**  
**2019 White Book Report Date: 2/4/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	204.3	228.0	228.0	228.0	200.0	228.0	-10.5	81.0	196.4	228.0	228.0	205.3
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	458.5	466.5	426.6	460.8	335.0	412.0	0.0	412.2	409.4	431.5	408.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	12.0	12.0	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1

**Regional: Thermal - Cogeneration**

**Operating Year: 2030 Water Year: 1937**

**2019 White Book** Report Date: **2/4/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Thermal - Cogeneration</b>															
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
39 Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
<b>40 Total Thermal - Cogeneration</b>	<b>2425</b>	<b>2425</b>	<b>2429</b>	<b>2398</b>	<b>2507</b>	<b>2536</b>	<b>2497</b>	<b>2489</b>	<b>1736</b>	<b>2177</b>	<b>1720</b>	<b>2095</b>	<b>2356</b>	<b>2418</b>	<b>2318</b>

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***Exhibit 42***  
***Non-Federal CER Deliveries to BPA***

***Monthly Energy***  
***Operating Year 2021 to 2030***

**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2021**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	17.3	16.3	17.6	17.4	16.4	17.2	16.6	17.1	17.4	17.3	17.3	16.6	17.3	17.2	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.6	35.2	37.4	37.7	36.0	37.7	36.3	37.1	37.8	37.6	37.6	36.3	37.6	37.7	37.1
3 DOPD to BPA CEAEA for Wells	24.3	22.8	24.2	24.4	23.3	24.4	23.5	24.0	24.4	24.3	24.3	23.5	24.3	24.4	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.5	27.6	29.7	29.6	28.1	29.4	28.3	29.1	29.7	29.5	29.5	28.3	29.5	29.4	29.1
5 GCPD to BPA CEAEA for Wanapum	28.3	26.5	28.1	28.5	27.0	28.3	27.3	28.0	28.5	28.3	28.3	27.3	28.3	28.3	27.9
<b>6 Total Imports From PNW</b>	<b>137</b>	<b>128</b>	<b>137</b>	<b>138</b>	<b>131</b>	<b>137</b>	<b>132</b>	<b>135</b>	<b>138</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>137</b>	<b>135</b>

**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2022**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	16.0	17.5	17.6	16.8	17.5	17.2	16.6	17.1	17.4	17.3	17.3	16.6	17.3	16.6	17.1
2 CHPD to BPA CEAEA for Rocky Reach	34.7	37.9	37.4	36.3	37.4	37.7	36.3	37.1	37.8	37.6	37.6	36.3	37.6	36.3	37.0
3 DOPD to BPA CEAEA for Wells	22.4	24.5	24.2	23.5	24.2	24.4	23.5	24.0	24.4	24.3	24.3	23.5	24.3	23.5	23.9
4 GCPD to BPA CEAEA for Priest Rapids	27.2	29.8	29.7	28.5	29.6	29.4	28.3	29.1	29.7	29.5	29.5	28.3	29.5	28.3	29.0
5 GCPD to BPA CEAEA for Wanapum	26.1	28.6	28.1	27.4	28.1	28.3	27.3	28.0	28.5	28.3	28.3	27.3	28.3	27.3	27.8
<b>6 Total Imports From PNW</b>	<b>126</b>	<b>138</b>	<b>137</b>	<b>133</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>135</b>	<b>138</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>132</b>	<b>135</b>

**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2023**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	17.3	17.5	17.6	16.8	17.5	17.2	16.6	17.1	17.4	17.3	16.0	17.2	17.3	16.6	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.6	37.9	37.4	36.3	37.4	37.7	36.3	37.1	37.8	37.6	34.7	37.7	37.6	36.3	37.1
3 DOPD to BPA CEAEA for Wells	24.3	24.5	24.2	23.5	24.2	24.4	23.5	24.0	24.4	24.3	22.4	24.4	24.3	23.5	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.5	29.8	29.7	28.5	29.6	29.4	28.3	29.1	29.7	29.5	27.2	29.4	29.5	28.3	29.1
5 GCPD to BPA CEAEA for Wanapum	28.3	28.6	28.1	27.4	28.1	28.3	27.3	28.0	28.5	28.3	26.1	28.3	28.3	27.3	27.9
<b>6 Total Imports From PNW</b>	<b>137</b>	<b>138</b>	<b>137</b>	<b>133</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>135</b>	<b>138</b>	<b>137</b>	<b>126</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>135</b>

**Non-Federal CER Deliveries to BPA**

**Operating Year: 2024**

**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	17.3	17.5	17.6	16.8	17.5	16.6	17.2	17.2	16.8	17.3	17.3	17.2	16.7	17.2	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.6	37.9	37.4	36.3	37.4	36.3	37.7	37.4	36.4	37.6	37.6	37.7	36.1	37.7	37.1
3 DOPD to BPA CEAEA for Wells	24.3	24.5	24.2	23.5	24.2	23.5	24.4	24.1	23.5	24.3	24.3	24.4	23.3	24.4	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.5	29.8	29.7	28.5	29.6	28.3	29.4	29.3	28.6	29.5	29.5	29.4	28.3	29.4	29.1
5 GCPD to BPA CEAEA for Wanapum	28.3	28.6	28.1	27.4	28.1	27.3	28.3	28.2	27.4	28.3	28.3	28.3	27.2	28.3	27.9
<b>6 Total Imports From PNW</b>	<b>137</b>	<b>138</b>	<b>137</b>	<b>133</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>136</b>	<b>133</b>	<b>137</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>135</b>

**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2025**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	17.3	17.5	16.5	17.4	17.5	16.6	17.2	17.1	16.8	17.3	17.3	17.2	16.7	17.2	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.6	37.9	36.1	37.7	37.4	36.3	37.7	37.1	36.4	37.6	37.6	37.7	36.1	37.7	37.1
3 DOPD to BPA CEAEA for Wells	24.3	24.5	23.3	24.4	24.2	23.5	24.4	24.0	23.5	24.3	24.3	24.4	23.3	24.4	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.5	29.8	28.1	29.6	29.6	28.3	29.4	29.1	28.6	29.5	29.5	29.4	28.3	29.4	29.1
5 GCPD to BPA CEAEA for Wanapum	28.3	28.6	27.1	28.5	28.1	27.3	28.3	28.0	27.4	28.3	28.3	28.3	27.2	28.3	27.9
<b>6 Total Imports From PNW</b>	<b>137</b>	<b>138</b>	<b>131</b>	<b>138</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>135</b>	<b>133</b>	<b>137</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>135</b>

**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2026**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	17.3	16.3	17.6	17.4	16.4	17.2	17.2	17.1	16.8	17.3	17.3	16.6	17.3	17.2	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.6	35.2	37.4	37.7	36.0	37.7	37.7	37.1	36.4	37.6	37.6	36.3	37.6	37.7	37.1
3 DOPD to BPA CEAEA for Wells	24.3	22.8	24.2	24.4	23.3	24.4	24.4	24.0	23.5	24.3	24.3	23.5	24.3	24.4	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.5	27.6	29.7	29.6	28.1	29.4	29.4	29.1	28.6	29.5	29.5	28.3	29.5	29.4	29.1
5 GCPD to BPA CEAEA for Wanapum	28.3	26.5	28.1	28.5	27.0	28.3	28.3	28.0	27.4	28.3	28.3	27.3	28.3	28.3	27.9
<b>6 Total Imports From PNW</b>	<b>137</b>	<b>128</b>	<b>137</b>	<b>138</b>	<b>131</b>	<b>137</b>	<b>137</b>	<b>135</b>	<b>133</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>137</b>	<b>135</b>

**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2027**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	17.3	16.3	17.6	17.4	16.4	17.2	16.6	17.1	17.4	17.3	17.3	16.6	17.3	17.2	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.6	35.2	37.4	37.7	36.0	37.7	36.3	37.1	37.8	37.6	37.6	36.3	37.6	37.7	37.1
3 DOPD to BPA CEAEA for Wells	24.3	22.8	24.2	24.4	23.3	24.4	23.5	24.0	24.4	24.3	24.3	23.5	24.3	24.4	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.5	27.6	29.7	29.6	28.1	29.4	28.3	29.1	29.7	29.5	29.5	28.3	29.5	29.4	29.1
5 GCPD to BPA CEAEA for Wanapum	28.3	26.5	28.1	28.5	27.0	28.3	27.3	28.0	28.5	28.3	28.3	27.3	28.3	28.3	27.9
<b>6 Total Imports From PNW</b>	<b>137</b>	<b>128</b>	<b>137</b>	<b>138</b>	<b>131</b>	<b>137</b>	<b>132</b>	<b>135</b>	<b>138</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>137</b>	<b>135</b>



**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2028**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	16.0	17.5	17.6	16.8	17.5	17.2	16.6	17.2	17.4	17.3	16.0	17.2	17.3	16.6	17.1
2 CHPD to BPA CEAEA for Rocky Reach	34.7	37.9	37.4	36.3	37.4	37.7	36.3	37.4	37.8	37.6	34.7	37.7	37.6	36.3	37.0
3 DOPD to BPA CEAEA for Wells	22.4	24.5	24.2	23.5	24.2	24.4	23.5	24.1	24.4	24.3	22.4	24.4	24.3	23.5	23.9
4 GCPD to BPA CEAEA for Priest Rapids	27.2	29.8	29.7	28.5	29.6	29.4	28.3	29.3	29.7	29.5	27.2	29.4	29.5	28.3	29.0
5 GCPD to BPA CEAEA for Wanapum	26.1	28.6	28.1	27.4	28.1	28.3	27.3	28.2	28.5	28.3	26.1	28.3	28.3	27.3	27.9
<b>6 Total Imports From PNW</b>	<b>126</b>	<b>138</b>	<b>137</b>	<b>133</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>136</b>	<b>138</b>	<b>137</b>	<b>126</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>135</b>

**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2029**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	17.3	17.5	17.6	16.8	17.5	16.6	17.2	17.1	17.4	16.0	17.3	17.2	17.3	16.6	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.6	37.9	37.4	36.3	37.4	36.3	37.7	37.1	37.8	34.7	37.6	37.7	37.6	36.3	37.1
3 DOPD to BPA CEAEA for Wells	24.3	24.5	24.2	23.5	24.2	23.5	24.4	24.0	24.4	22.4	24.3	24.4	24.3	23.5	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.5	29.8	29.7	28.5	29.6	28.3	29.4	29.1	29.7	27.2	29.5	29.4	29.5	28.3	29.1
5 GCPD to BPA CEAEA for Wanapum	28.3	28.6	28.1	27.4	28.1	27.3	28.3	28.0	28.5	26.1	28.3	28.3	28.3	27.3	27.9
<b>6 Total Imports From PNW</b>	<b>137</b>	<b>138</b>	<b>137</b>	<b>133</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>135</b>	<b>138</b>	<b>126</b>	<b>137</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>135</b>

**Non-Federal CER Deliveries to BPA**  
**Operating Year: 2030**  
**2019 White Book** Report Date: **4/8/2020**

S184-WB-20191230-103442

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
<b>Pacific Northwest</b>															
1 CHPD to BPA CEAEA for Rock Island	17.3	17.5	16.5	17.4	17.5	16.6	17.2	17.1	16.8	17.3	17.3	17.2	16.7	17.2	17.1
2 CHPD to BPA CEAEA for Rocky Reach	37.6	37.9	36.1	37.7	37.4	36.3	37.7	37.1	36.4	37.6	37.6	37.7	36.1	37.7	37.1
3 DOPD to BPA CEAEA for Wells	24.3	24.5	23.3	24.4	24.2	23.5	24.4	24.0	23.5	24.3	24.3	24.4	23.3	24.4	24.0
4 GCPD to BPA CEAEA for Priest Rapids	29.5	29.8	28.1	29.6	29.6	28.3	29.4	29.1	28.6	29.5	29.5	29.4	28.3	29.4	29.1
5 GCPD to BPA CEAEA for Wanapum	28.3	28.6	27.1	28.5	28.1	27.3	28.3	28.0	27.4	28.3	28.3	28.3	27.2	28.3	27.9
<b>6 Total Imports From PNW</b>	<b>137</b>	<b>138</b>	<b>131</b>	<b>138</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>135</b>	<b>133</b>	<b>137</b>	<b>137</b>	<b>137</b>	<b>132</b>	<b>137</b>	<b>135</b>
<b>Total Imports</b>															
7 Federal Entities	1348	1353	1358	1351	1350	1350	1345	1356	1358	1359	1348	1350	1354	1350	1352
<b>8 Total Imports</b>	<b>1348</b>	<b>1353</b>	<b>1358</b>	<b>1351</b>	<b>1350</b>	<b>1350</b>	<b>1345</b>	<b>1356</b>	<b>1358</b>	<b>1359</b>	<b>1348</b>	<b>1350</b>	<b>1354</b>	<b>1350</b>	<b>1352</b>

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***Exhibit 43***  
***Federal Report Surplus Deficit By Water***  
***Year 80 Water Year Surplus/Deficit***

***Monthly Energy***  
***Operating Year 2021 to 2030***

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2021**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	161	864	95.7	-53.1	177	-728	-806	-455	-284	-940	-1264	-550	2143	-341	-117
2 1930 Federal Report Surplus Deficit	427	278	213	6.48	314	-715	-1584	-436	-326	-383	-857	-238	427	622	-166
3 1931 Federal Report Surplus Deficit	809	526	151	10.7	290	-536	-1502	-528	-269	-522	-1349	-54.4	359	563	-147
4 1932 Federal Report Surplus Deficit	1020	550	218	-233	-74.4	-626	-886	-1967	1474	1790	3628	4011	3601	1941	928
5 1933 Federal Report Surplus Deficit	794	1103	155	-40.6	64.6	914	1912	2353	1542	992	235	2300	5543	4366	1719
6 1934 Federal Report Surplus Deficit	2530	2306	285	551	2436	3215	4125	4735	3516	4147	3535	3075	2925	102	2587
7 1935 Federal Report Surplus Deficit	9.07	255	-235	-102	-414	-133	1756	2021	1673	-164	757	1788	1208	2026	832
8 1936 Federal Report Surplus Deficit	1901	564	-133	-120	132	-736	-1443	-876	-62.7	-470	2185	4177	3221	1201	627
9 1937 Federal Report Surplus Deficit	437	326	-11.9	27.0	401	-557	-1697	-994	-599	-843	-1213	-193	1585	334	-194
10 1938 Federal Report Surplus Deficit	505	178	-57.7	-65.1	148	231	1202	1347	2528	2283	3832	3489	2354	2264	1403
11 1939 Federal Report Surplus Deficit	-35.0	-4.41	146	-34.0	5.65	-802	331	552	484	148	1281	1652	945	762	393
12 1940 Federal Report Surplus Deficit	443	377	29.2	77.0	453	416	615	106	1919	1173	460	1899	1018	-379	619
13 1941 Federal Report Surplus Deficit	83.3	56.7	-119	-159	445	38.4	-428	-136	362	-609	-1335	-196	814	468	16.7
14 1942 Federal Report Surplus Deficit	975	716	211	-223	615	1537	1261	1263	-227	-673	70.4	595	3563	2820	994
15 1943 Federal Report Surplus Deficit	749	1127	218	9.11	-74.5	-130	2303	2024	2344	5233	4504	2437	4859	4126	1988
16 1944 Federal Report Surplus Deficit	1371	1106	-37.6	-88.6	203	-715	-289	-412	-583	-1208	-1578	-659	297	-118	-212
17 1945 Federal Report Surplus Deficit	887	400	88.1	-171	150	-554	-1185	-836	-404	-962	-1355	1548	3402	59.2	134
18 1946 Federal Report Surplus Deficit	540	388	78.0	-123	327	341	1008	1440	1607	3185	4110	4115	2616	2861	1531
19 1947 Federal Report Surplus Deficit	1210	930	143	-143	796	2627	3137	3126	2665	1936	1215	3360	3151	2527	1999
20 1948 Federal Report Surplus Deficit	833	507	222	2243	1986	1358	3081	2659	1559	1408	2684	5666	5896	3011	2531
21 1949 Federal Report Surplus Deficit	2322	2074	359	234	492	202	991	1160	2623	2122	3030	4054	2408	194	1460
22 1950 Federal Report Surplus Deficit	-165	-263	-235	-134	98.9	457	2819	3063	3157	3313	2014	2902	5120	5169	2065
23 1951 Federal Report Surplus Deficit	2076	2153	263	908	2294	2499	3947	4920	3801	3730	2797	3722	2811	3709	2845
24 1952 Federal Report Surplus Deficit	1934	1038	5.91	1726	1313	1460	2918	2760	1562	3459	4790	5022	3164	2337	2320
25 1953 Federal Report Surplus Deficit	1458	489	-76.2	-43.6	154	-678	-103	3681	876	-958	-358	2301	5444	3939	1298
26 1954 Federal Report Surplus Deficit	830	1261	346	170	794	898	2395	3225	2340	1295	1088	3801	4451	4865	2123
27 1955 Federal Report Surplus Deficit	3170	3756	1710	301	1384	873	51.7	478	-759	-609	-693	1530	5362	5015	1569
28 1956 Federal Report Surplus Deficit	2340	1819	206	449	1889	2574	4069	4125	3740	3069	5147	5551	5209	3331	3104
29 1957 Federal Report Surplus Deficit	1510	1202	116	406	435	1050	1257	493	2134	3047	1499	5500	5162	1434	1809
30 1958 Federal Report Surplus Deficit	348	169	61.2	-46.5	248	144	1969	1975	1446	516	2006	4384	4158	1131	1410
31 1959 Federal Report Surplus Deficit	406	455	114	171	1364	2159	3630	4216	2015	2458	1440	3196	4442	4076	2302
32 1960 Federal Report Surplus Deficit	2029	1441	2305	2996	2640	1926	2422	1912	1765	3873	2651	1892	3488	1943	2354
33 1961 Federal Report Surplus Deficit	1481	480	40.2	113	736	358	1800	2307	2932	2276	776	3350	4708	1374	1678
34 1962 Federal Report Surplus Deficit	594	544	24.2	-146	328	366	1776	2085	266	854	3744	2677	2611	1253	1167
35 1963 Federal Report Surplus Deficit	1454	1116	175	641	1468	1846	2359	2088	382	-104	-534	1781	3669	1901	1436
36 1964 Federal Report Surplus Deficit	1314	831	512	-127	394	308	717	958	-139	688	83.2	2692	6000	4521	1440
37 1965 Federal Report Surplus Deficit	2517	1504	907	821	1137	2877	4467	5346	3736	617	4298	4196	3923	2438	2846
38 1966 Federal Report Surplus Deficit	2634	2362	162	332	533	600	1516	1635	357	1292	804	1424	2626	1826	1210
39 1967 Federal Report Surplus Deficit	1420	427	9.88	-142	111	1033	3072	3297	2430	1043	-427	2526	5201	3457	1844
40 1968 Federal Report Surplus Deficit	1761	898	167	230	851	635	1958	2591	2659	-653	-766	1282	3663	2191	1397
41 1969 Federal Report Surplus Deficit	1994	1637	1318	940	1992	1469	3804	4093	2605	3293	4148	4802	3759	2447	2719
42 1970 Federal Report Surplus Deficit	626	123	141	288	525	-107	1846	2316	952	-531	-651	2115	4595	1256	1132
43 1971 Federal Report Surplus Deficit	879	591	86.3	-33.3	334	457	4063	4608	3680	3014	2663	5473	5803	3966	2655
44 1972 Federal Report Surplus Deficit	2521	1373	336	428	677	932	3558	3729	5542	4781	2204	4906	5726	4091	2943
45 1973 Federal Report Surplus Deficit	2783	2813	556	367	680	553	1464	1666	206	-1422	-1623	-320	874	228	626
46 1974 Federal Report Surplus Deficit	523	-209	-220	-110	141	1604	4693	5467	4528	4137	4050	4315	5992	5304	2981
47 1975 Federal Report Surplus Deficit	2489	2478	580	-214	150	15.2	1674	1884	2464	-89.1	102	2984	5109	4594	1814
48 1976 Federal Report Surplus Deficit	1775	1879	663	1068	2217	3200	3629	4143	3071	3685	2540	4881	3611	4134	2960
49 1977 Federal Report Surplus Deficit	3887	4851	2214	432	216	-558	-27.8	-241	-760	-1321	-1535	-247	49.5	-185	326
50 1978 Federal Report Surplus Deficit	870	509	-206	-464	203	595	1330	1402	1260	3185	1130	2881	2008	2404	1187
51 1979 Federal Report Surplus Deficit	788	595	1041	456	565	-438	634	74.6	1371	-233	399	2746	1138	-55.3	697
52 1980 Federal Report Surplus Deficit	269	6.28	113	-28.2	187	-847	714	-377	-86.9	1000	1943	4165	3748	1356	884
53 1981 Federal Report Surplus Deficit	29.1	120	21.0	-64.2	648	1798	2968	3066	583	-1012	-487	2780	4939	3437	1618
54 1982 Federal Report Surplus Deficit	2716	2375	408	73.5	933	612	2522	4319	5117	2998	1452	3920	4868	4966	2701

### Federal Report Surplus Deficit By Water Year

#### Operating Year 2021

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2597	2133	1255	973	982	1096	2913	3317	3682	2169	923	2831	3366	3987	2357
56 1984 Federal Report Surplus Deficit	2503	1702	586	251	2470	1400	2640	2665	3028	1703	3158	2852	4845	3703	2409
57 1985 Federal Report Surplus Deficit	2086	1295	619	310	973	527	996	1024	494	1495	1965	2151	1037	207	977
58 1986 Federal Report Surplus Deficit	-276	-340	-53.1	534	1435	721	1961	3232	4224	3247	2834	2035	3184	936	1731
59 1987 Federal Report Surplus Deficit	948	321	-49.5	-198	804	610	391	-176	981	-109	74.7	2669	1297	-202	568
60 1988 Federal Report Surplus Deficit	15.8	-329	-310	-131	94.0	-941	-1371	-634	-289	-828	-264	-24.4	1111	931	-189
61 1989 Federal Report Surplus Deficit	609	271	45.0	-121	344	88.9	-566	-1343	1232	1030	3507	2166	1182	501	530
62 1990 Federal Report Surplus Deficit	235	164	-148	9.72	631	1098	1568	2757	1836	1098	2889	2410	3703	1963	1491
63 1991 Federal Report Surplus Deficit	2047	1302	-27.0	-160	2326	1559	2917	2827	2069	1599	1009	2477	3451	3813	2014
64 1992 Federal Report Surplus Deficit	2632	2101	-160	-170	347	-879	-65.1	11.8	279	-870	-608	1809	749	-275	277
65 1993 Federal Report Surplus Deficit	345	155	-129	-140	272	-442	-956	-1529	522	-157	-979	3183	2351	1178	346
66 1994 Federal Report Surplus Deficit	990	953	331	5.73	482	-336	-934	-145	-318	-769	299	1036	988	715	214
67 1995 Federal Report Surplus Deficit	463	14.9	13.7	-85.9	-76.5	-386	534	1413	2137	237	-859	2258	3660	2067	952
68 1996 Federal Report Surplus Deficit	623	797	389	922	2859	3870	4405	5098	4984	3332	4472	3803	3999	3880	3225
69 1997 Federal Report Surplus Deficit	2393	1152	213	132	862	1531	4878	5222	4921	3875	4680	5851	5597	4243	3280
70 1998 Federal Report Surplus Deficit	2504	2025	1199	2449	1824	525	1083	2528	1203	-270	-435	4260	4451	2324	1977
71 1999 Federal Report Surplus Deficit	1813	440	212	-15.5	84.1	1338	3499	3554	4265	1771	2235	2837	4424	4589	2321
72 2000 Federal Report Surplus Deficit	3493	3566	207	113	2355	1836	1769	1945	1969	2622	3518	2535	769	1852	1831
73 2001 Federal Report Surplus Deficit	1594	26.2	-208	13.9	145	-634	-329	-448	-285	-1226	-1522	-304	-111	55.2	-221
74 2002 Federal Report Surplus Deficit	843	279	-109	-545	88.7	37.7	-743	-164	233	754	2407	1781	4383	3205	860
75 2003 Federal Report Surplus Deficit	321	257	-110	58.1	396	-583	-527	389	1907	482	360	665	3631	638	594
76 2004 Federal Report Surplus Deficit	81.5	33.8	-286	-86.4	759	538	-102	-554	375	330	113	1078	2045	640	395
77 2005 Federal Report Surplus Deficit	-53.0	492	39.7	428	586	848	1230	1854	420	-1057	-796	1209	1754	1025	719
78 2006 Federal Report Surplus Deficit	627	218	-28.9	-46.5	755	548	2506	2956	1782	3811	3463	4146	4270	1517	1859
79 2007 Federal Report Surplus Deficit	76.6	-199	-216	-140	792	618	1812	1215	2948	1719	560	2747	2641	1685	1267
80 2008 Federal Report Surplus Deficit	322	-99.8	-473	45.1	628	-158	22.0	250	557	-97.5	-673	3000	5723	2938	1023
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>612</b>	<b>357</b>	<b>-28.4</b>	<b>-46.7</b>	<b>259</b>	<b>-598</b>	<b>-1001</b>	<b>-505</b>	<b>-284</b>	<b>-820</b>	<b>-1173</b>	<b>-277</b>	<b>828</b>	<b>314</b>	<b>-154</b>
82 <b>Middle 80 pct</b>	<b>1241</b>	<b>951</b>	<b>252</b>	<b>211</b>	<b>712</b>	<b>554</b>	<b>1433</b>	<b>1667</b>	<b>1561</b>	<b>1149</b>	<b>1262</b>	<b>2717</b>	<b>3387</b>	<b>2152</b>	<b>1410</b>
83 <b>Top 10 pct</b>	<b>1846</b>	<b>1309</b>	<b>345</b>	<b>577</b>	<b>1509</b>	<b>2386</b>	<b>4206</b>	<b>4756</b>	<b>4290</b>	<b>3403</b>	<b>3773</b>	<b>4653</b>	<b>4608</b>	<b>3891</b>	<b>3023</b>

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2022**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	661	1113	-72.5	-350	-122	-1038	-881	-543	-367	-980	-1304	-13.2	2690	-293	-104
2 1930 Federal Report Surplus Deficit	148	126	-109	-290	16.0	-1025	-1660	-524	-413	-424	-895	301	916	670	-220
3 1931 Federal Report Surplus Deficit	324	227	-215	-286	-8.05	-846	-1578	-616	-354	-565	-1394	483	851	608	-220
4 1932 Federal Report Surplus Deficit	573	160	-171	-529	-373	-936	-962	-2055	1385	1656	3241	4481	3981	1979	817
5 1933 Federal Report Surplus Deficit	878	1090	274	-337	-234	595	1903	2117	1549	862	272	2612	5786	4220	1667
6 1934 Federal Report Surplus Deficit	2727	2535	390	255	2326	3900	4511	4434	3549	4153	3122	2887	3275	147	2650
7 1935 Federal Report Surplus Deficit	-5.17	260	-466	-398	-713	-443	1697	1941	1581	-215	713	2263	1738	2046	799
8 1936 Federal Report Surplus Deficit	2113	434	-235	-416	-167	-1046	-1519	-965	-149	-527	2141	4609	3635	1246	595
9 1937 Federal Report Surplus Deficit	52.8	66.0	-457	-269	103	-867	-1772	-1082	-684	-890	-1257	335	2058	381	-270
10 1938 Federal Report Surplus Deficit	314	81.4	-51.6	-362	-151	-78.5	1127	1577	2153	2120	3788	3523	2877	2310	1336
11 1939 Federal Report Surplus Deficit	106	28.2	82.7	-330	-293	-1112	255	464	398	138	1294	2224	1456	811	393
12 1940 Federal Report Surplus Deficit	-88.0	-14.3	-383	-219	155	106	539	17.4	1841	1123	416	2483	1504	-331	540
13 1941 Federal Report Surplus Deficit	-207	-182	-243	-455	147	-272	-504	-220	275	-653	-1379	335	1293	514	-27.6
14 1942 Federal Report Surplus Deficit	457	263	69.6	-519	316	1219	1186	1177	-312	-705	26.2	1133	3968	2860	923
15 1943 Federal Report Surplus Deficit	1196	1258	523	-287	-373	-440	2244	1951	2267	5345	4401	2989	5170	4169	2021
16 1944 Federal Report Surplus Deficit	1359	1005	-31.9	-385	-95.9	-1025	-365	-500	-670	-1249	-1623	-125	787	-68.9	-226
17 1945 Federal Report Surplus Deficit	305	-84.4	-288	-467	-148	-864	-1261	-924	-489	-1002	-1399	2082	3755	106	36.1
18 1946 Federal Report Surplus Deficit	250	149	-225	-420	28.9	31.1	932	1352	1553	3196	3896	3698	3094	2865	1385
19 1947 Federal Report Surplus Deficit	1773	1471	257	-439	498	2352	3130	2938	2562	1936	1244	3880	3549	2560	2040
20 1948 Federal Report Surplus Deficit	892	694	152	1929	1606	1039	3037	2579	1470	1244	2683	5223	5862	3011	2387
21 1949 Federal Report Surplus Deficit	2781	2648	643	-62.0	194	-108	916	1076	2646	1963	3071	4541	2904	241	1521
22 1950 Federal Report Surplus Deficit	-292	-378	-375	-431	-199	147	2811	3038	3072	3216	2137	3009	5259	4937	1960
23 1951 Federal Report Surplus Deficit	2699	2457	512	611	1900	2482	4271	5022	3853	3703	2751	3655	3234	3655	2906
24 1952 Federal Report Surplus Deficit	1946	816	238	1429	993	1141	2839	2664	1464	3430	4677	4785	3664	2377	2248
25 1953 Federal Report Surplus Deficit	1082	468	-431	-340	-145	-988	-178	3681	789	-1006	-380	2891	5735	3956	1235
26 1954 Federal Report Surplus Deficit	1312	1280	282	-127	496	582	2336	3163	2206	1285	1124	3557	4307	4716	1996
27 1955 Federal Report Surplus Deficit	3622	4040	1983	4.58	1048	554	-23.9	389	-844	-653	-731	2120	5473	4833	1562
28 1956 Federal Report Surplus Deficit	2540	1765	144	152	1509	2376	4138	4164	3883	3062	4726	5052	5193	3326	2991
29 1957 Federal Report Surplus Deficit	2165	2207	346	109	137	732	1181	405	2095	2950	1489	5545	5370	1468	1825
30 1958 Federal Report Surplus Deficit	1174	278	-206	-343	-50.8	-166	1910	1895	1374	463	1961	4883	4508	1177	1405
31 1959 Federal Report Surplus Deficit	952	356	-101	-126	1034	1873	3945	3757	1939	2419	1463	2879	4622	4014	2192
32 1960 Federal Report Surplus Deficit	2439	2658	2567	2683	2425	1718	2369	1825	1610	3862	2537	2465	3899	1994	2441
33 1961 Federal Report Surplus Deficit	1649	346	-37.5	-183	438	47.7	1741	2318	2737	2177	827	3162	4773	1417	1567
34 1962 Federal Report Surplus Deficit	997	585	-221	-442	29.5	55.7	1709	2005	179	805	3661	3110	3107	1300	1146
35 1963 Federal Report Surplus Deficit	1365	976	-86.2	345	1135	1568	2376	2008	298	-151	-565	2371	4024	1934	1396
36 1964 Federal Report Surplus Deficit	1036	578	412	-424	95.9	-1.58	641	870	-225	617	59.9	3204	6131	4407	1354
37 1965 Federal Report Surplus Deficit	2464	2452	1019	524	838	2624	4626	5378	3849	603	4317	3907	4294	2468	2857
38 1966 Federal Report Surplus Deficit	2390	2270	-9.90	35.4	234	290	1440	1546	271	1221	782	2014	3133	1868	1177
39 1967 Federal Report Surplus Deficit	1168	331	-93.0	-438	-187	714	3105	3186	2347	1055	-446	2658	5149	3507	1742
40 1968 Federal Report Surplus Deficit	1725	1699	361	-66.3	552	325	1898	2511	2564	-703	-795	1872	3976	2214	1426
41 1969 Federal Report Surplus Deficit	1903	2233	1453	644	1616	1149	3903	3936	2584	3185	3652	4539	4011	2486	2641
42 1970 Federal Report Surplus Deficit	829	197	-7.40	-8.69	226	-417	1787	2236	765	-515	-664	2742	4972	1293	1116
43 1971 Federal Report Surplus Deficit	449	292	-347	-330	35.3	147	4255	4666	3748	3017	2682	5111	5793	3995	2511
44 1972 Federal Report Surplus Deficit	2715	3024	558	132	379	622	3662	4207	5409	4395	2159	4498	5700	4116	2947
45 1973 Federal Report Surplus Deficit	2841	3310	713	71.0	381	243	1388	1578	119	-1462	-1667	209	1380	275	653
46 1974 Federal Report Surplus Deficit	339	-184	-302	-406	-157	1315	5225	5119	4709	4136	3644	4007	6021	5087	2868
47 1975 Federal Report Surplus Deficit	2981	3307	635	-510	-148	-295	1615	1804	2287	-48.6	48.2	3118	5504	4609	1817
48 1976 Federal Report Surplus Deficit	1782	1934	803	771	1825	3348	3818	3962	3001	3693	2516	4699	3954	4079	2932
49 1977 Federal Report Surplus Deficit	4030	4980	2494	136	-82.4	-868	-103	-330	-844	-1363	-1579	289	547	-137	351
50 1978 Federal Report Surplus Deficit	310	-28.2	-707	-761	-95.7	276	1239	1284	1228	3182	1099	3018	2447	2451	1054
51 1979 Federal Report Surplus Deficit	1261	1046	1328	160	267	-748	559	-13.6	1283	-329	390	3336	1611	-6.70	752
52 1980 Federal Report Surplus Deficit	-69.2	-214	-114	-325	-111	-1157	639	-465	-172	906	1899	4301	4179	1392	790
53 1981 Federal Report Surplus Deficit	103	0.91	92.9	-361	349	1579	3239	3049	499	-1099	-506	3298	5093	3453	1621
54 1982 Federal Report Surplus Deficit	2624	2613	347	-223	635	302	2463	4700	4957	3018	1406	4145	5280	4989	2692



**Federal Report Surplus Deficit By Water Year**

**Operating Year 2022**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2519	3029	1443	677	683	777	2859	3374	3880	2043	931	3417	3876	4006	2437
56 1984 Federal Report Surplus Deficit	2445	2728	743	-45.0	2104	1081	2589	2614	3143	1595	3166	3436	5275	3711	2466
57 1985 Federal Report Surplus Deficit	1977	1144	713	13.7	674	217	917	934	408	1406	1921	2742	1503	254	964
58 1986 Federal Report Surplus Deficit	-399	-528	-107	237	1106	411	1902	3350	4392	3198	2791	2599	3714	985	1745
59 1987 Federal Report Surplus Deficit	605	114	-259	-494	505	300	316	-264	888	-222	90.5	3051	1760	-156	501
60 1988 Federal Report Surplus Deficit	-119	-308	-333	-428	-204	-1251	-1446	-723	-374	-870	-306	510	1582	980	-207
61 1989 Federal Report Surplus Deficit	326	115	-171	-417	45.9	-221	-662	-1431	1118	948	3519	2749	1651	551	482
62 1990 Federal Report Surplus Deficit	10.0	33.9	-150	-287	333	779	1485	2638	1790	1097	2895	2654	3842	1985	1413
63 1991 Federal Report Surplus Deficit	1570	1596	-149	-457	2001	1280	3105	2721	1925	1601	1118	2884	3740	3802	1979
64 1992 Federal Report Surplus Deficit	2535	1973	-58.7	-466	48.7	-1189	-141	-61.4	179	-916	-650	2344	1237	-227	265
65 1993 Federal Report Surplus Deficit	10.1	-99.7	-459	-436	-25.9	-752	-1032	-1617	434	-205	-1023	3717	2797	1221	279
66 1994 Federal Report Surplus Deficit	329	482	-87.5	-291	183	-646	-1010	-234	-404	-808	259	1588	1505	762	126
67 1995 Federal Report Surplus Deficit	190	-71.9	-242	-382	-375	-696	459	1339	2045	190	-903	2806	3999	2093	893
68 1996 Federal Report Surplus Deficit	864	534	379	626	2701	4644	4867	5144	5098	3364	4164	3856	4382	3881	3327
69 1997 Federal Report Surplus Deficit	2303	2198	365	-165	564	1217	5109	5250	5177	3884	4361	5425	5600	4215	3251
70 1998 Federal Report Surplus Deficit	2344	3114	1359	2135	1477	215	1007	2448	1112	-325	-468	4700	4868	2358	2000
71 1999 Federal Report Surplus Deficit	1857	1681	-127	-312	-214	1020	3546	3758	4293	1593	2276	3378	4828	4521	2362
72 2000 Federal Report Surplus Deficit	3525	3547	458	-183	2271	1616	1706	1867	1890	2698	3456	3031	1214	1900	1867
73 2001 Federal Report Surplus Deficit	1338	-5.42	-233	-283	-154	-944	-405	-536	-370	-1267	-1567	224	383	101	-245
74 2002 Federal Report Surplus Deficit	397	-117	-678	-842	-210	-272	-820	-250	136	676	2435	2352	4520	3212	738
75 2003 Federal Report Surplus Deficit	567	612	-84.1	-238	97.6	-893	-602	300	1813	375	372	1241	4017	685	605
76 2004 Federal Report Surplus Deficit	-419	-235	-606	-383	461	228	-177	-642	289	212	116	1668	2536	686	330
77 2005 Federal Report Surplus Deficit	-166	383	663	131	288	529	1155	1774	303	-1067	-803	1752	2283	1074	755
78 2006 Federal Report Surplus Deficit	347	106	-369	-343	457	238	2322	3017	1700	3765	3454	4683	4480	1554	1785
79 2007 Federal Report Surplus Deficit	246	-115	-670	-437	492	308	1753	1127	2913	1661	516	3258	3154	1733	1235
80 2008 Federal Report Surplus Deficit	-10.2	-382	-880	-251	330	-468	-60.0	169	442	-112	-684	3586	5753	2964	918
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>444</b>	<b>255</b>	<b>-212</b>	<b>-343</b>	<b>-39.8</b>	<b>-908</b>	<b>-1076</b>	<b>-593</b>	<b>-369</b>	<b>-862</b>	<b>-1216</b>	<b>256</b>	<b>1320</b>	<b>362</b>	<b>-190</b>
82 <b>Middle 80 pct</b>	<b>1204</b>	<b>1036</b>	<b>178</b>	<b>-85.9</b>	<b>414</b>	<b>264</b>	<b>1397</b>	<b>1599</b>	<b>1485</b>	<b>1096</b>	<b>1223</b>	<b>3076</b>	<b>3735</b>	<b>2169</b>	<b>1374</b>
83 <b>Top 10 pct</b>	<b>1963</b>	<b>1773</b>	<b>435</b>	<b>281</b>	<b>1195</b>	<b>2328</b>	<b>4465</b>	<b>4781</b>	<b>4372</b>	<b>3355</b>	<b>3580</b>	<b>4387</b>	<b>4797</b>	<b>3854</b>	<b>3010</b>

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2023**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	706	1179	-28.2	-253	-18.1	-934	-918	-582	-408	-1054	-1354	-637	2107	-341	-190
2 1930 Federal Report Surplus Deficit	193	192	-59.6	-190	123	-922	-1697	-563	-451	-501	-945	-324	333	616	-306
3 1931 Federal Report Surplus Deficit	369	293	-165	-187	97.2	-742	-1615	-655	-392	-640	-1443	-132	273	563	-304
4 1932 Federal Report Surplus Deficit	619	226	-121	-429	-267	-832	-998	-2095	1349	1640	3449	3975	3446	1912	758
5 1933 Federal Report Surplus Deficit	923	1156	322	-238	-132	716	1850	2048	1525	773	237	2257	5017	3941	1569
6 1934 Federal Report Surplus Deficit	2773	2639	435	352	2486	4082	4616	4358	3522	4136	3224	2768	2522	96.1	2625
7 1935 Federal Report Surplus Deficit	40.0	326	-417	-300	-613	-339	1652	1916	1540	-280	663	1761	1155	1986	724
8 1936 Federal Report Surplus Deficit	2158	500	-186	-316	-61.1	-942	-1556	-1004	-190	-591	2091	4077	3093	1183	521
9 1937 Federal Report Surplus Deficit	98.0	132	-407	-170	209	-764	-1809	-1121	-722	-963	-1307	-277	1481	327	-354
10 1938 Federal Report Surplus Deficit	359	147	-3.06	-262	-47.6	25.0	1098	1547	2121	2054	3733	3324	2294	2238	1288
11 1939 Federal Report Surplus Deficit	151	94.2	132	-231	-188	-1009	218	425	356	69.7	1245	1608	895	761	310
12 1940 Federal Report Surplus Deficit	-42.8	51.7	-333	-119	260	209	503	-21.6	1803	1057	366	1865	940	-378	458
13 1941 Federal Report Surplus Deficit	-162	-116	-193	-353	254	-168	-540	-259	228	-730	-1429	-285	723	468	-111
14 1942 Federal Report Surplus Deficit	502	329	118	-420	422	1339	1157	1146	-352	-782	-21.4	516	3503	2786	849
15 1943 Federal Report Surplus Deficit	1258	1338	569	-189	-270	-337	2199	1953	2236	5294	4305	2372	4554	4020	1928
16 1944 Federal Report Surplus Deficit	1401	1071	12.9	-288	8.36	-921	-402	-539	-707	-1326	-1672	-738	211	-116	-310
17 1945 Federal Report Surplus Deficit	351	-18.4	-238	-364	-40.8	-761	-1297	-963	-525	-1076	-1449	1465	3303	51.9	-37.0
18 1946 Federal Report Surplus Deficit	296	215	-177	-322	132	135	895	1318	1484	3122	3986	3553	2547	2773	1344
19 1947 Federal Report Surplus Deficit	1819	1537	302	-342	598	2456	3111	2924	2548	1855	1194	3263	2981	2485	1959
20 1948 Federal Report Surplus Deficit	938	760	195	2046	1766	1158	2989	2581	1430	1193	2633	5025	5336	2938	2351
21 1949 Federal Report Surplus Deficit	2819	2765	687	34.9	296	-4.46	883	1040	2616	1908	3021	3978	2321	186	1444
22 1950 Federal Report Surplus Deficit	-247	-312	-327	-333	-97.2	250	2786	3010	3061	3144	2087	2768	4595	4717	1890
23 1951 Federal Report Surplus Deficit	2736	2552	555	709	2060	2586	4431	4606	3762	3650	2711	3516	2693	3523	2849
24 1952 Federal Report Surplus Deficit	1989	882	278	1528	1115	1261	2782	2675	1438	3381	4700	4708	3081	2288	2215
25 1953 Federal Report Surplus Deficit	1127	534	-381	-241	-38.8	-884	-215	3663	741	-1083	-430	2274	5167	3847	1148
26 1954 Federal Report Surplus Deficit	1357	1346	329	-27.4	600	691	2291	3150	2148	1228	1079	3371	3686	4413	1925
27 1955 Federal Report Surplus Deficit	3652	4172	2071	101	1188	674	-60.7	350	-882	-728	-781	1503	4696	4555	1452
28 1956 Federal Report Surplus Deficit	2584	1831	190	250	1668	2479	4082	4131	3849	3014	4940	4879	4576	3278	2957
29 1957 Federal Report Surplus Deficit	2209	2274	391	206	240	852	1153	366	2043	2851	1439	5313	4724	1414	1767
30 1958 Federal Report Surplus Deficit	1219	344	-156	-245	53.6	-63.0	1865	1897	1327	380	1912	4312	3918	1109	1324
31 1959 Federal Report Surplus Deficit	997	422	-52.5	-28.1	1166	1976	3839	3846	1912	2343	1417	2702	3931	3881	2137
32 1960 Federal Report Surplus Deficit	2482	2750	2665	2833	2587	1830	2313	1808	1557	3813	2523	1848	3320	1921	2371
33 1961 Federal Report Surplus Deficit	1694	412	7.28	-85.1	539	151	1696	2321	2718	2106	777	2999	4130	1359	1519
34 1962 Federal Report Surplus Deficit	1043	651	-173	-345	134	159	1672	1994	141	748	3715	2650	2524	1242	1081
35 1963 Federal Report Surplus Deficit	1411	1042	-39.1	442	1270	1687	2333	2011	257	-225	-615	1754	3488	1874	1320
36 1964 Federal Report Surplus Deficit	1081	644	458	-325	200	102	605	831	-267	542	8.90	2669	5514	4211	1260
37 1965 Federal Report Surplus Deficit	2508	2536	1060	621	940	2727	4981	4998	3773	553	4276	3664	3815	2386	2815
38 1966 Federal Report Surplus Deficit	2432	2347	29.4	133	336	394	1412	1516	221	1136	732	1397	2521	1808	1089
39 1967 Federal Report Surplus Deficit	1213	397	-47.1	-340	-84.5	831	3076	3158	2324	988	-496	2387	4603	3405	1689
40 1968 Federal Report Surplus Deficit	1771	1765	409	30.9	654	429	1854	2513	2551	-770	-845	1255	3421	2150	1347
41 1969 Federal Report Surplus Deficit	1948	2298	1492	742	1777	1269	3878	3892	2578	3136	3815	4405	3354	2383	2605
42 1970 Federal Report Surplus Deficit	874	263	38.5	88.3	330	-313	1742	2239	727	-584	-714	2125	4450	1243	1039
43 1971 Federal Report Surplus Deficit	493	358	-300	-233	139	251	4200	4657	3712	2943	2633	4925	5252	3849	2459
44 1972 Federal Report Surplus Deficit	2757	3146	602	229	482	725	3634	4179	5264	4518	2087	4250	5113	3962	2886
45 1973 Federal Report Surplus Deficit	2882	3444	757	168	485	347	1360	1547	79.0	-1539	-1717	-408	794	225	572
46 1974 Federal Report Surplus Deficit	384	-118	-254	-307	-56.3	1421	5347	5117	4600	4091	3694	3793	5424	4874	2818
47 1975 Federal Report Surplus Deficit	3024	3442	680	-412	-44.6	-191	1570	1774	2266	-121	-0.49	2911	5018	4516	1776
48 1976 Federal Report Surplus Deficit	1822	1996	843	869	1984	3451	3804	3939	2971	3634	2467	4563	3421	3902	2890
49 1977 Federal Report Surplus Deficit	4029	4900	2595	233	21.6	-764	-140	-369	-882	-1439	-1629	-330	-33.8	-187	263
50 1978 Federal Report Surplus Deficit	355	37.8	-657	-658	9.88	395	1217	1240	1201	3109	1049	2852	1876	2379	1011
51 1979 Federal Report Surplus Deficit	1305	1111	1368	257	371	-645	522	-52.6	1243	-410	336	2719	1002	-55.8	664
52 1980 Federal Report Surplus Deficit	-24.0	-148	-65.9	-226	-5.99	-1053	602	-504	-212	842	1849	3935	3632	1337	729
53 1981 Federal Report Surplus Deficit	149	66.9	136	-264	451	1683	3247	3052	456	-1173	-556	2752	4406	3357	1536
54 1982 Federal Report Surplus Deficit	2669	2707	393	-125	739	406	2418	4749	4838	2972	1240	3815	4709	4796	2617

### Federal Report Surplus Deficit By Water Year

#### Operating Year 2023

**2019 White Book** Report Date: 2/5/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2561	3163	1487	774	787	898	2815	3376	3736	1958	881	2800	3293	3887	2343
56 1984 Federal Report Surplus Deficit	2488	2848	787	53.1	2264	1202	2544	2617	3103	1548	3116	2819	4827	3624	2400
57 1985 Federal Report Surplus Deficit	2023	1210	758	112	777	321	871	890	363	1337	1871	2129	936	203	879
58 1986 Federal Report Surplus Deficit	-353	-462	-65.6	335	1237	514	1858	3338	4252	3121	2743	1982	3144	937	1656
59 1987 Federal Report Surplus Deficit	650	180	-213	-397	609	404	279	-303	847	-291	44.8	2548	1181	-204	426
60 1988 Federal Report Surplus Deficit	-73.8	-242	-285	-327	-97.6	-1148	-1483	-762	-414	-946	-358	-104	1014	925	-290
61 1989 Federal Report Surplus Deficit	371	181	-121	-317	151	-118	-699	-1470	1084	920	3506	2132	1110	502	405
62 1990 Federal Report Surplus Deficit	55.2	99.9	-107	-187	438	899	1449	2593	1768	1060	2865	2335	3159	1939	1350
63 1991 Federal Report Surplus Deficit	1616	1662	-103	-359	2162	1399	3109	2693	1934	1512	1003	2363	3135	3617	1901
64 1992 Federal Report Surplus Deficit	2579	2039	-11.6	-366	153	-1085	-177	-100	137	-992	-699	1727	662	-275	181
65 1993 Federal Report Surplus Deficit	55.2	-33.7	-409	-337	79.1	-648	-1069	-1656	394	-274	-1073	3100	2214	1166	195
66 1994 Federal Report Surplus Deficit	370	548	-45.8	-193	290	-542	-1047	-273	-443	-885	206	971	913	711	39.5
67 1995 Federal Report Surplus Deficit	235	-5.91	-192	-282	-269	-593	422	1326	2021	119	-953	2188	3558	2024	822
68 1996 Federal Report Surplus Deficit	909	600	425	723	2853	4981	4989	5207	4936	3299	4206	3664	3728	3740	3303
69 1997 Federal Report Surplus Deficit	2348	2268	410	-67.0	667	1338	5017	5310	4986	3848	4436	5193	4990	4032	3183
70 1998 Federal Report Surplus Deficit	2385	3248	1400	2284	1627	319	971	2451	1075	-393	-518	4101	4366	2285	1936
71 1999 Federal Report Surplus Deficit	1902	1747	-79.1	-213	-111	1140	3503	3756	4176	1494	2226	2767	4243	4237	2254
72 2000 Federal Report Surplus Deficit	3569	3682	505	-84.1	2430	1728	1663	1868	1847	2625	3444	2498	660	1828	1802
73 2001 Federal Report Surplus Deficit	1383	60.6	-185	-185	-48.7	-840	-442	-575	-406	-1343	-1616	-388	-195	55.6	-329
74 2002 Federal Report Surplus Deficit	443	-51.4	-628	-738	-103	-169	-857	-289	97.3	606	2385	1735	3803	3121	640
75 2003 Federal Report Surplus Deficit	612	678	-36.9	-138	203	-789	-639	261	1787	307	329	624	3543	637	531
76 2004 Federal Report Surplus Deficit	-374	-169	-556	-282	566	332	-214	-681	253	147	74.6	1051	1953	633	246
77 2005 Federal Report Surplus Deficit	-121	449	702	228	390	648	1126	1746	266	-1141	-853	1135	1683	1022	671
78 2006 Federal Report Surplus Deficit	392	172	-322	-246	561	341	2277	2992	1689	3716	3420	4046	3826	1456	1693
79 2007 Federal Report Surplus Deficit	291	-49.5	-620	-337	594	412	1709	1090	2870	1586	466	2702	2523	1659	1148
80 2008 Federal Report Surplus Deficit	35.0	-316	-830	-152	435	-364	-96.9	130	403	-187	-734	2969	5091	2907	827

#### Ranked Averages

81 <b>Bottom 10 pct</b>	<b>489</b>	<b>321</b>	<b>-164</b>	<b>-244</b>	<b>65.9</b>	<b>-805</b>	<b>-1113</b>	<b>-632</b>	<b>-409</b>	<b>-938</b>	<b>-1266</b>	<b>-360</b>	<b>743</b>	<b>312</b>	<b>-274</b>
82 <b>Middle 80 pct</b>	<b>1248</b>	<b>1110</b>	<b>226</b>	<b>14.6</b>	<b>527</b>	<b>373</b>	<b>1361</b>	<b>1576</b>	<b>1444</b>	<b>1029</b>	<b>1187</b>	<b>2596</b>	<b>3149</b>	<b>2077</b>	<b>1301</b>
83 <b>Top 10 pct</b>	<b>2006</b>	<b>1851</b>	<b>479</b>	<b>378</b>	<b>1325</b>	<b>2464</b>	<b>4536</b>	<b>4686</b>	<b>4268</b>	<b>3326</b>	<b>3602</b>	<b>4190</b>	<b>4220</b>	<b>3712</b>	<b>2963</b>

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2024**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	666	1135	-59.8	-226	22.9	-900	-870	-394	-375	-1030	-1345	-52.4	2653	-317	-69.2
2 1930 Federal Report Surplus Deficit	152	149	-95.8	-166	161	-888	-1649	-375	-420	-472	-936	267	876	645	-185
3 1931 Federal Report Surplus Deficit	328	249	-202	-162	137	-708	-1567	-467	-362	-613	-1434	432	798	584	-187
4 1932 Federal Report Surplus Deficit	578	183	-158	-405	-228	-798	-950	-1907	1324	1638	3427	4454	3848	1937	843
5 1933 Federal Report Surplus Deficit	883	1112	286	-213	-89.1	665	1795	2133	1468	795	255	2844	5347	3892	1636
6 1934 Federal Report Surplus Deficit	2722	2595	403	379	2423	3988	4513	4381	3384	3955	3178	3256	2996	123	2666
7 1935 Federal Report Surplus Deficit	-0.47	282	-454	-274	-568	-314	1676	1895	1486	-270	672	2348	1700	1992	820
8 1936 Federal Report Surplus Deficit	2118	456	-222	-292	-22.0	-908	-1508	-816	-156	-570	2100	4538	3475	1207	614
9 1937 Federal Report Surplus Deficit	57.5	88.4	-445	-146	247	-729	-1761	-934	-688	-933	-1298	305	2020	352	-236
10 1938 Federal Report Surplus Deficit	319	104	-38.8	-238	-6.01	40.3	1044	1632	2053	2070	3742	3834	2839	2268	1376
11 1939 Federal Report Surplus Deficit	111	50.6	95.5	-207	-148	-974	224	580	391	76.3	1253	2194	1391	786	421
12 1940 Federal Report Surplus Deficit	-83.3	8.06	-370	-95.6	297	207	478	166	1739	1060	375	2453	1450	-356	556
13 1941 Federal Report Surplus Deficit	-202	-160	-230	-331	272	-152	-321	-273	264	-697	-1420	298	1244	491	2.77
14 1942 Federal Report Surplus Deficit	462	286	82.3	-396	431	1288	1103	1232	-321	-762	-14.8	1104	3877	2783	928
15 1943 Federal Report Surplus Deficit	1218	1294	536	-164	-228	-302	2145	2039	2171	5174	4326	2959	4992	4039	2010
16 1944 Federal Report Surplus Deficit	1364	1027	-19.2	-261	48.8	-887	-353	-351	-673	-1296	-1664	-162	750	-93.0	-190
17 1945 Federal Report Surplus Deficit	310	-61.9	-276	-343	-3.30	-726	-1249	-776	-496	-1049	-1440	2052	3718	81.4	70.7
18 1946 Federal Report Surplus Deficit	255	172	-212	-296	174	153	956	1282	1455	3152	3952	4014	2953	2778	1417
19 1947 Federal Report Surplus Deficit	1699	1384	270	-316	629	2405	3132	2912	2453	1832	1203	3850	3376	2473	2021
20 1948 Federal Report Surplus Deficit	897	717	165	1993	1708	1109	2935	2666	1417	1161	2642	5553	5555	2948	2396
21 1949 Federal Report Surplus Deficit	2783	2721	656	61.8	338	23.1	833	1131	2537	1878	3030	4429	2818	204	1521
22 1950 Federal Report Surplus Deficit	-287	-356	-362	-307	-54.8	225	2732	3095	2977	3173	2096	3296	4977	4691	1960
23 1951 Federal Report Surplus Deficit	2700	2512	525	735	2002	2535	4331	4630	3611	3665	2630	3987	3157	3577	2901
24 1952 Federal Report Surplus Deficit	1950	839	251	1510	1095	1211	2728	2761	1399	3411	4628	5190	3626	2305	2287
25 1953 Federal Report Surplus Deficit	1087	491	-418	-216	0.19	-850	-167	3715	762	-1066	-437	2861	5483	3804	1238
26 1954 Federal Report Surplus Deficit	1316	1302	294	-2.79	621	651	2237	3236	2087	1220	1087	3831	4069	4414	1990
27 1955 Federal Report Surplus Deficit	3375	4032	2043	128	1150	624	-31.1	511	-848	-697	-772	2091	5064	4567	1525
28 1956 Federal Report Surplus Deficit	2545	1787	157	276	1611	2429	3982	4166	3688	3043	4729	5339	4737	3196	2966
29 1957 Federal Report Surplus Deficit	2170	2230	359	233	280	801	1099	528	1952	2821	1448	5708	4999	1437	1816
30 1958 Federal Report Surplus Deficit	1179	300	-194	-219	93.9	-28.7	1811	1983	1281	359	1920	4704	4348	1147	1396
31 1959 Federal Report Surplus Deficit	957	378	-88.5	-2.12	1136	1926	3747	3887	1829	2324	1426	3216	4320	3772	2184
32 1960 Federal Report Surplus Deficit	2443	2707	2639	2747	2524	1779	2259	1894	1532	3808	2481	2435	3734	1959	2432
33 1961 Federal Report Surplus Deficit	1654	368	-24.8	-59.3	568	164	1642	2406	2613	2089	786	3505	4457	1384	1585
34 1962 Federal Report Surplus Deficit	1002	608	-208	-318	174	185	1618	2080	171	711	3660	3237	3069	1267	1182
35 1963 Federal Report Surplus Deficit	1370	998	-73.5	469	1237	1637	2279	2096	283	-195	-606	2342	3907	1895	1403
36 1964 Federal Report Surplus Deficit	1041	600	425	-300	241	113	598	949	-230	551	-3.60	3256	5855	4255	1352
37 1965 Federal Report Surplus Deficit	2469	2492	1032	648	940	2677	4880	4961	3623	540	4284	4107	4079	2371	2847
38 1966 Federal Report Surplus Deficit	2395	2303	2.83	159	364	378	1358	1601	257	1159	741	1985	3002	1814	1184
39 1967 Federal Report Surplus Deficit	1172	354	-80.3	-314	-42.3	784	3022	3244	2224	1000	-531	2933	4943	3390	1754
40 1968 Federal Report Surplus Deficit	1730	1721	373	57.5	654	398	1800	2599	2441	-757	-836	1843	3764	2145	1415
41 1969 Federal Report Surplus Deficit	1907	2256	1466	767	1718	1219	3801	3954	2506	3166	3802	4878	3698	2406	2659
42 1970 Federal Report Surplus Deficit	834	220	5.33	115	370	-279	1688	2324	742	-562	-705	2713	4717	1246	1121
43 1971 Federal Report Surplus Deficit	453	315	-334	-206	180	254	4100	4681	3615	2973	2641	5332	5475	3890	2508
44 1972 Federal Report Surplus Deficit	2720	3103	571	256	523	696	3571	4202	5172	4337	2041	4749	5488	3952	2939
45 1973 Federal Report Surplus Deficit	2845	3409	726	195	520	324	1306	1633	112	-1510	-1708	171	1327	250	674
46 1974 Federal Report Surplus Deficit	343	-162	-290	-282	-12.3	1372	5227	5066	4439	4032	3691	4232	5713	4783	2842
47 1975 Federal Report Surplus Deficit	2985	3407	648	-386	-3.61	-163	1516	1859	2150	-107	-0.87	3385	5316	4449	1830
48 1976 Federal Report Surplus Deficit	1786	1956	816	895	1927	3386	3717	3985	2881	3652	2476	5070	3879	3936	2952
49 1977 Federal Report Surplus Deficit	3427	4206	3182	259	62.3	-730	-109	-181	-848	-1410	-1620	253	503	-162	380
50 1978 Federal Report Surplus Deficit	315	-5.75	-694	-637	49.0	346	1181	1330	1168	3057	1058	3286	2410	2367	1084
51 1979 Federal Report Surplus Deficit	1195	994	1341	284	404	-611	505	135	1232	-384	348	3307	1518	-34.6	766
52 1980 Federal Report Surplus Deficit	-64.5	-192	-102	-201	33.6	-1019	601	-316	-183	828	1858	4472	3990	1350	821
53 1981 Federal Report Surplus Deficit	108	23.3	106	-237	482	1633	3186	3120	481	-1148	-553	3295	4801	3387	1619
54 1982 Federal Report Surplus Deficit	2629	2663	359	-99.1	742	387	2364	4721	4762	2953	1249	4273	5067	4786	2671

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2024**

**2019 White Book** Report Date: **2/5/2020** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2524	3123	1456	801	794	847	2760	3400	3602	1940	890	3387	3799	3863	2413
56 1984 Federal Report Surplus Deficit	2450	2804	756	78.9	2206	1151	2490	2702	2955	1497	3125	3406	5142	3602	2450
57 1985 Federal Report Surplus Deficit	1982	1166	726	138	793	320	832	1003	395	1326	1880	2717	1468	228	980
58 1986 Federal Report Surplus Deficit	-394	-505	-94.0	361	1209	497	1803	3361	4115	3151	2752	2569	3454	946	1716
59 1987 Federal Report Surplus Deficit	610	136	-247	-370	638	382	279	-115	861	-268	47.4	3123	1705	-180	531
60 1988 Federal Report Surplus Deficit	-114	-285	-321	-304	-59.7	-1114	-1435	-574	-381	-922	-355	469	1499	946	-177
61 1989 Federal Report Surplus Deficit	330	138	-159	-294	191	-93.0	-651	-1282	1086	857	3478	2719	1613	521	509
62 1990 Federal Report Surplus Deficit	14.7	56.3	-138	-163	476	848	1395	2678	1732	1045	2847	2861	3597	1955	1428
63 1991 Federal Report Surplus Deficit	1575	1618	-137	-333	2103	1350	3026	2779	1847	1541	1012	2872	3583	3670	1968
64 1992 Federal Report Surplus Deficit	2539	1995	-45.9	-343	193	-1051	-47.7	-31.4	169	-962	-691	2314	1182	-252	297
65 1993 Federal Report Surplus Deficit	14.7	-77.3	-447	-312	119	-614	-1020	-1468	428	-246	-1064	3687	2759	1185	310
66 1994 Federal Report Surplus Deficit	334	505	-74.8	-167	328	-508	-999	-84.8	-411	-869	201	1558	1428	738	157
67 1995 Federal Report Surplus Deficit	194	-49.5	-230	-259	-230	-558	426	1419	1941	137	-944	2776	3993	2060	915
68 1996 Federal Report Surplus Deficit	868	556	392	750	2790	4813	4869	5156	4788	3324	4147	4103	4259	3724	3336
69 1997 Federal Report Surplus Deficit	2308	2225	378	-41.0	698	1287	4917	5258	4861	3744	4373	5587	5122	4091	3202
70 1998 Federal Report Surplus Deficit	2348	3213	1372	2199	1579	308	929	2536	1066	-372	-509	4575	4720	2299	1994
71 1999 Federal Report Surplus Deficit	1862	1703	-115	-188	-69.6	1089	3513	3820	3896	1474	2235	3321	4665	4193	2313
72 2000 Federal Report Surplus Deficit	3391	3868	470	-59.2	2373	1678	1609	1954	1801	2654	3376	3052	1181	1851	1881
73 2001 Federal Report Surplus Deficit	1342	17.0	-220	-159	-8.95	-806	-287	-516	-376	-1313	-1608	184	342	79.6	-211
74 2002 Federal Report Surplus Deficit	402	-95.0	-665	-718	-65.0	-134	-809	-102	131	638	2394	2322	4286	3133	752
75 2003 Federal Report Surplus Deficit	571	634	-71.3	-115	242	-755	-591	414	1708	325	331	1211	3837	658	618
76 2004 Federal Report Surplus Deficit	-415	-212	-593	-259	575	329	-166	-493	286	164	71.1	1638	2498	661	358
77 2005 Federal Report Surplus Deficit	-162	405	676	255	414	599	1072	1832	297	-1114	-844	1722	2220	1040	770
78 2006 Federal Report Surplus Deficit	351	128	-356	-219	591	351	2306	2972	1654	3702	3441	4592	4187	1520	1775
79 2007 Federal Report Surplus Deficit	223	-121	-657	-313	602	405	1654	1182	2780	1583	475	3262	3068	1696	1232
80 2008 Federal Report Surplus Deficit	-5.51	-360	-867	-128	467	-330	-51.6	309	434	-162	-725	3557	5436	2894	925
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>449</b>	<b>278</b>	<b>-199</b>	<b>-219</b>	<b>102</b>	<b>-773</b>	<b>-1030</b>	<b>-486</b>	<b>-376</b>	<b>-910</b>	<b>-1257</b>	<b>218</b>	<b>1273</b>	<b>336</b>	<b>-157</b>
82 <b>Middle 80 pct</b>	<b>1191</b>	<b>1055</b>	<b>203</b>	<b>34.5</b>	<b>544</b>	<b>364</b>	<b>1340</b>	<b>1675</b>	<b>1408</b>	<b>1030</b>	<b>1186</b>	<b>3139</b>	<b>3572</b>	<b>2088</b>	<b>1382</b>
83 <b>Top 10 pct</b>	<b>1967</b>	<b>1809</b>	<b>448</b>	<b>405</b>	<b>1310</b>	<b>2399</b>	<b>4437</b>	<b>4678</b>	<b>4133</b>	<b>3292</b>	<b>3546</b>	<b>4647</b>	<b>4554</b>	<b>3704</b>	<b>2998</b>

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2025**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	685	1155	-44.7	-259	-16.7	-944	-913	-567	-397	-1062	-1383	-640	2082	-356	-197
2 1930 Federal Report Surplus Deficit	172	168	-76.1	-199	121	-932	-1692	-549	-442	-517	-974	-336	276	603	-317
3 1931 Federal Report Surplus Deficit	348	269	-181	-195	97.1	-752	-1609	-641	-378	-653	-1473	-157	237	544	-314
4 1932 Federal Report Surplus Deficit	598	202	-137	-438	-268	-842	-993	-2080	1274	1523	3312	3826	3239	1852	703
5 1933 Federal Report Surplus Deficit	902	1132	305	-246	-129	621	1752	1960	1434	714	231	2237	4835	3851	1507
6 1934 Federal Report Surplus Deficit	2742	2509	418	346	2383	3943	4470	4208	3288	3797	3020	2614	2358	78.0	2501
7 1935 Federal Report Surplus Deficit	19.0	302	-433	-307	-608	-358	1633	1722	1430	-314	634	1741	1129	1911	680
8 1936 Federal Report Surplus Deficit	2137	475	-202	-326	-61.6	-952	-1551	-989	-180	-654	2062	3933	2813	1154	477
9 1937 Federal Report Surplus Deficit	77.0	108	-424	-179	208	-774	-1804	-1107	-706	-984	-1336	-315	1449	294	-367
10 1938 Federal Report Surplus Deficit	338	123	-19.5	-271	-45.6	-4.08	1001	1459	1971	2031	3655	3236	2269	2146	1232
11 1939 Federal Report Surplus Deficit	130	70.0	115	-240	-188	-1019	181	406	362	10.6	1216	1588	780	731	284
12 1940 Federal Report Surplus Deficit	-63.8	27.5	-349	-129	257	163	435	-7.25	1688	982	336	1846	845	-394	420
13 1941 Federal Report Surplus Deficit	-183	-140	-210	-364	233	-196	-363	-447	235	-746	-1458	-289	664	452	-127
14 1942 Federal Report Surplus Deficit	481	305	102	-429	391	1244	1060	1058	-337	-788	-53.0	496	3234	2661	785
15 1943 Federal Report Surplus Deficit	1237	1314	552	-197	-268	-347	2102	1865	2069	5090	4222	2352	4338	3845	1848
16 1944 Federal Report Surplus Deficit	1380	1047	-3.50	-294	9.27	-932	-396	-525	-691	-1331	-1702	-758	165	-129	-320
17 1945 Federal Report Surplus Deficit	330	-42.5	-255	-376	-42.9	-771	-1292	-949	-510	-1084	-1478	1445	3036	39.9	-65.7
18 1946 Federal Report Surplus Deficit	274	191	-194	-329	134	109	913	1108	1390	3114	3853	3424	2332	2706	1275
19 1947 Federal Report Surplus Deficit	1797	1513	285	-349	589	2361	3089	2738	2384	1780	1165	3224	2713	2373	1877
20 1948 Federal Report Surplus Deficit	917	736	178	1960	1669	1064	2892	2493	1364	1047	2604	4896	4908	2771	2236
21 1949 Federal Report Surplus Deficit	2798	2622	671	28.8	299	-21.2	790	957	2466	1811	2992	3868	2211	156	1381
22 1950 Federal Report Surplus Deficit	-268	-336	-343	-340	-94.3	181	2689	2922	2903	3135	2057	2638	4403	4559	1810
23 1951 Federal Report Surplus Deficit	2715	2428	539	702	1962	2491	4288	4456	3552	3627	2512	3385	2515	3384	2736
24 1952 Federal Report Surplus Deficit	1967	858	262	1477	1056	1167	2685	2587	1334	3373	4564	4616	3025	2249	2149
25 1953 Federal Report Surplus Deficit	1106	510	-397	-249	-39.4	-894	-210	3542	723	-1088	-459	2254	4871	3668	1090
26 1954 Federal Report Surplus Deficit	1336	1322	313	-35.8	581	607	2194	3062	2011	1134	1049	3215	3471	4256	1836
27 1955 Federal Report Surplus Deficit	3391	3904	1940	95.4	1110	579	-74.0	338	-866	-746	-810	1483	4487	4467	1375
28 1956 Federal Report Surplus Deficit	2563	1785	174	243	1571	2384	3939	3992	3613	3005	4642	4761	4272	3171	2837
29 1957 Federal Report Surplus Deficit	2188	2180	375	200	240	757	1056	355	1885	2740	1410	5236	4451	1373	1692
30 1958 Federal Report Surplus Deficit	1198	319	-173	-252	54.3	-73.1	1768	1809	1243	306	1882	4116	3677	1069	1253
31 1959 Federal Report Surplus Deficit	976	398	-68.9	-35.2	1097	1882	3704	3714	1758	2235	1388	2580	3807	3730	2045
32 1960 Federal Report Surplus Deficit	2461	2632	2521	2714	2484	1735	2216	1720	1481	3770	2400	1828	3091	1838	2271
33 1961 Federal Report Surplus Deficit	1673	388	-9.13	-92.4	528	119	1599	2233	2567	2003	747	2889	3824	1323	1441
34 1962 Federal Report Surplus Deficit	1022	627	-189	-351	135	140	1575	1906	140	627	3577	2630	2498	1210	1043
35 1963 Federal Report Surplus Deficit	1389	1017	-55.5	435	1197	1593	2236	1923	257	-253	-644	1734	3216	1820	1256
36 1964 Federal Report Surplus Deficit	1060	619	442	-333	201	69.1	555	776	-253	499	-43.2	2649	5270	4180	1218
37 1965 Federal Report Surplus Deficit	2487	2426	1037	615	901	2633	4837	4787	3555	434	4176	3542	3513	2303	2698
38 1966 Federal Report Surplus Deficit	2411	2243	13.0	126	324	333	1315	1428	224	1068	702	1377	2283	1727	1028
39 1967 Federal Report Surplus Deficit	1192	373	-63.5	-347	-81.8	740	2979	3070	2142	930	-526	2255	4182	3229	1583
40 1968 Federal Report Surplus Deficit	1750	1728	392	24.5	614	354	1757	2425	2369	-788	-874	1235	3216	2087	1277
41 1969 Federal Report Surplus Deficit	1927	2206	1421	734	1678	1175	3758	3780	2454	3128	3655	4288	3162	2297	2508
42 1970 Federal Report Surplus Deficit	853	239	22.1	82.1	331	-323	1645	2151	712	-604	-743	2105	4201	1205	990
43 1971 Federal Report Surplus Deficit	472	334	-316	-239	140	210	4057	4507	3484	2935	2539	4800	4914	3755	2358
44 1972 Federal Report Surplus Deficit	2736	2998	586	223	484	652	3529	4029	5035	4210	1914	4106	4822	3853	2766
45 1973 Federal Report Surplus Deficit	2861	3283	741	162	480	280	1263	1459	80.0	-1545	-1746	-414	714	203	531
46 1974 Federal Report Surplus Deficit	363	-143	-271	-315	-51.9	1327	5184	4892	4391	3994	3588	3659	5155	4752	2706
47 1975 Federal Report Surplus Deficit	3003	3281	664	-419	-43.2	-207	1473	1686	2087	-170	-39.0	2791	4737	4351	1684
48 1976 Federal Report Surplus Deficit	1801	1937	826	862	1887	3341	3674	3811	2832	3614	2438	4523	3285	3836	2813
49 1977 Federal Report Surplus Deficit	3443	4077	3066	226	22.8	-774	-151	-354	-866	-1445	-1658	-341	-65.5	-197	235
50 1978 Federal Report Surplus Deficit	334	13.7	-673	-670	9.43	301	1138	1156	1139	3019	1020	2699	1841	2272	950
51 1979 Federal Report Surplus Deficit	1284	1087	1304	251	364	-655	462	-38.2	1206	-444	317	2699	947	-77.6	637
52 1980 Federal Report Surplus Deficit	-45.0	-172	-82.3	-234	-5.91	-1063	558	-490	-201	784	1820	3838	3368	1303	686
53 1981 Federal Report Surplus Deficit	127	42.7	120	-270	443	1588	3143	2947	442	-1181	-585	2689	4121	3256	1467
54 1982 Federal Report Surplus Deficit	2648	2586	376	-132	703	343	2321	4548	4680	2905	1211	3646	4532	4733	2525

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2025**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2540	3003	1420	768	754	802	2718	3226	3527	1864	852	2780	3209	3741	2255
56 1984 Federal Report Surplus Deficit	2467	2702	771	45.8	2167	1107	2447	2529	2849	1377	3087	2799	4557	3507	2296
57 1985 Federal Report Surplus Deficit	2002	1186	742	105	754	276	789	829	362	1252	1842	2109	898	186	847
58 1986 Federal Report Surplus Deficit	-374	-486	-82.0	328	1169	452	1761	3188	4057	3112	2714	1962	2931	899	1581
59 1987 Federal Report Surplus Deficit	629	155	-230	-403	598	338	237	-289	808	-322	-6.38	2435	1077	-218	387
60 1988 Federal Report Surplus Deficit	-94.8	-266	-301	-337	-99.2	-1158	-1478	-747	-400	-946	-389	-130	922	908	-305
61 1989 Federal Report Surplus Deficit	350	157	-138	-327	151	-137	-694	-1455	1053	769	3391	2112	1043	478	378
62 1990 Federal Report Surplus Deficit	34.2	75.7	-123	-196	437	804	1352	2505	1684	937	2719	2218	2921	1810	1264
63 1991 Federal Report Surplus Deficit	1594	1637	-119	-366	2063	1305	2983	2605	1766	1429	974	2252	2905	3488	1805
64 1992 Federal Report Surplus Deficit	2558	1978	-28.0	-376	154	-1095	-90.6	-205	142	-994	-729	1707	612	-288	166
65 1993 Federal Report Surplus Deficit	34.2	-57.9	-426	-345	79.2	-658	-1063	-1642	401	-294	-1103	3080	2189	1120	182
66 1994 Federal Report Surplus Deficit	349	524	-62.2	-200	289	-552	-1041	-258	-436	-905	165	951	850	692	25.7
67 1995 Federal Report Surplus Deficit	214	-30.1	-209	-292	-270	-603	383	1245	1878	90.8	-982	2169	3265	1978	763
68 1996 Federal Report Surplus Deficit	888	576	409	717	2751	4768	4826	4982	4726	3286	4064	3594	3545	3640	3188
69 1997 Federal Report Surplus Deficit	2327	2172	393	-74.1	659	1242	4874	5084	4780	3562	4192	4927	4628	3898	3035
70 1998 Federal Report Surplus Deficit	2364	3088	1340	2166	1540	264	886	2363	1023	-426	-547	3987	3984	2202	1832
71 1999 Federal Report Surplus Deficit	1881	1689	-95.6	-221	-109	1045	3470	3647	3768	1388	2196	2663	4026	4093	2150
72 2000 Federal Report Surplus Deficit	3409	3743	489	-92.2	2333	1633	1566	1781	1744	2616	3288	2425	604	1770	1733
73 2001 Federal Report Surplus Deficit	1362	36.4	-201	-192	-48.5	-850	-330	-689	-390	-1349	-1646	-422	-227	38.9	-340
74 2002 Federal Report Surplus Deficit	422	-75.6	-645	-751	-105	-179	-852	-275	101	525	2355	1715	3559	2976	598
75 2003 Federal Report Surplus Deficit	591	653	-53.3	-148	203	-799	-634	241	1648	270	292	604	3232	608	481
76 2004 Federal Report Surplus Deficit	-395	-193	-573	-292	535	285	-209	-667	258	121	27.9	1031	1928	617	229
77 2005 Federal Report Surplus Deficit	-142	425	685	222	375	554	1029	1658	272	-1149	-882	1115	1649	1003	635
78 2006 Federal Report Surplus Deficit	371	148	-338	-252	551	306	2263	2799	1617	3664	3271	3947	3610	1450	1628
79 2007 Federal Report Surplus Deficit	270	-73.6	-637	-346	563	360	1611	1009	2693	1522	437	2578	2382	1622	1079
80 2008 Federal Report Surplus Deficit	13.9	-340	-847	-161	428	-374	-94.6	136	412	-213	-763	2951	4838	2778	787
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>468</b>	<b>297</b>	<b>-180</b>	<b>-252</b>	<b>62.9</b>	<b>-817</b>	<b>-1073</b>	<b>-659</b>	<b>-396</b>	<b>-949</b>	<b>-1295</b>	<b>-381</b>	<b>696</b>	<b>294</b>	<b>-286</b>
82 <b>Middle 80 pct</b>	<b>1212</b>	<b>1049</b>	<b>211</b>	<b>1.46</b>	<b>505</b>	<b>320</b>	<b>1297</b>	<b>1501</b>	<b>1357</b>	<b>969</b>	<b>1134</b>	<b>2529</b>	<b>2962</b>	<b>2004</b>	<b>1237</b>
83 <b>Top 10 pct</b>	<b>1985</b>	<b>1772</b>	<b>462</b>	<b>372</b>	<b>1270</b>	<b>2355</b>	<b>4394</b>	<b>4504</b>	<b>4061</b>	<b>3217</b>	<b>3441</b>	<b>4062</b>	<b>3967</b>	<b>3605</b>	<b>2847</b>

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2026**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	636	1125	-72.8	-244	-2.46	-918	-691	-364	-193	-851	-1167	126	2837	-135	17.0
2 1930 Federal Report Surplus Deficit	122	139	-104	-184	135	-906	-1470	-345	-238	-294	-758	445	1060	826	-98.6
3 1931 Federal Report Surplus Deficit	299	239	-209	-180	111	-727	-1388	-437	-180	-435	-1256	610	982	765	-101
4 1932 Federal Report Surplus Deficit	548	173	-165	-423	-253	-816	-771	-1876	1505	1817	3605	4632	4032	2118	936
5 1933 Federal Report Surplus Deficit	853	1102	277	-231	-114	647	1974	2164	1649	973	433	3022	5531	4073	1721
6 1934 Federal Report Surplus Deficit	2692	2480	390	361	2397	3969	4692	4412	3565	4133	3356	3434	3181	304	2742
7 1935 Federal Report Surplus Deficit	-30.4	273	-461	-292	-594	-332	1855	1926	1668	-92.1	850	2527	1884	2173	903
8 1936 Federal Report Surplus Deficit	2088	446	-231	-310	-47.4	-927	-1329	-785	26.0	-392	2278	4716	3659	1388	703
9 1937 Federal Report Surplus Deficit	27.6	78.6	-452	-164	222	-748	-1582	-903	-507	-755	-1120	483	2204	534	-148
10 1938 Federal Report Surplus Deficit	289	93.9	-47.6	-256	-31.3	21.8	1223	1663	2235	2248	3920	4012	3023	2449	1461
11 1939 Federal Report Surplus Deficit	80.9	40.7	87.3	-225	-173	-993	403	610	573	254	1431	2373	1575	967	507
12 1940 Federal Report Surplus Deficit	-113	-1.83	-377	-114	271	189	657	197	1920	1238	553	2631	1634	-175	643
13 1941 Federal Report Surplus Deficit	-232	-170	-238	-349	247	-170	-142	-243	445	-519	-1242	477	1428	672	89.3
14 1942 Federal Report Surplus Deficit	432	276	73.4	-414	405	1270	1282	1262	-140	-584	163	1282	4061	2964	1013
15 1943 Federal Report Surplus Deficit	1188	1285	524	-182	-254	-321	2324	2069	2352	5352	4504	3138	5176	4220	2096
16 1944 Federal Report Surplus Deficit	1330	1017	-31.6	-279	23.5	-906	-175	-321	-492	-1118	-1485	16.6	934	88.1	-105
17 1945 Federal Report Surplus Deficit	280	-71.8	-283	-361	-28.6	-745	-1070	-745	-315	-870	-1262	2230	3902	263	159
18 1946 Federal Report Surplus Deficit	225	162	-222	-314	148	135	1135	1312	1637	3330	4130	4192	3137	2959	1503
19 1947 Federal Report Surplus Deficit	1748	1484	257	-334	604	2387	3311	2942	2634	2010	1381	4028	3560	2654	2112
20 1948 Federal Report Surplus Deficit	867	707	150	1975	1683	1090	3114	2697	1598	1339	2820	5732	5739	3130	2480
21 1949 Federal Report Surplus Deficit	2749	2592	642	43.8	313	4.64	1012	1161	2718	2056	3208	4607	3002	385	1602
22 1950 Federal Report Surplus Deficit	-317	-366	-371	-325	-80.1	207	2911	3126	3158	3352	2274	3474	5161	4872	2043
23 1951 Federal Report Surplus Deficit	2666	2398	511	717	1977	2517	4510	4660	3792	3843	2808	4165	3341	3758	2977
24 1952 Federal Report Surplus Deficit	1918	829	234	1492	1070	1192	2907	2791	1581	3589	4806	5369	3810	2486	2371
25 1953 Federal Report Surplus Deficit	1057	481	-426	-234	-25.1	-868	11.8	3746	944	-888	-259	3039	5667	3985	1317
26 1954 Federal Report Surplus Deficit	1286	1292	285	-20.8	595	633	2416	3266	2269	1398	1266	4009	4253	4595	2072
27 1955 Federal Report Surplus Deficit	3341	3875	1911	110	1124	605	148	541	-667	-519	-594	2269	5248	4748	1597
28 1956 Federal Report Surplus Deficit	2513	1756	146	258	1586	2410	4161	4196	3869	3222	4907	5518	4921	3377	3047
29 1957 Federal Report Surplus Deficit	2139	2151	347	215	254	783	1278	559	2134	2999	1626	5886	5183	1618	1902
30 1958 Federal Report Surplus Deficit	1149	290	-201	-237	68.5	-47.2	1990	2013	1462	537	2099	4882	4532	1328	1481
31 1959 Federal Report Surplus Deficit	927	368	-97.0	-20.1	1111	1907	3926	3917	2011	2502	1604	3394	4504	3953	2265
32 1960 Federal Report Surplus Deficit	2412	2603	2493	2729	2499	1761	2438	1924	1714	3986	2660	2613	3918	2140	2504
33 1961 Federal Report Surplus Deficit	1624	358	-37.3	-77.3	542	145	1821	2437	2795	2268	964	3683	4641	1565	1668
34 1962 Federal Report Surplus Deficit	972	598	-217	-336	149	166	1797	2110	352	889	3838	3415	3253	1448	1265
35 1963 Federal Report Surplus Deficit	1340	988	-83.6	451	1212	1619	2458	2127	465	-16.3	-428	2520	4091	2076	1487
36 1964 Federal Report Surplus Deficit	1011	590	414	-318	215	95.0	777	980	-49.0	729	175	3434	6039	4436	1439
37 1965 Federal Report Surplus Deficit	2438	2396	1009	630	915	2659	5059	4991	3804	718	4463	4285	4263	2552	2922
38 1966 Federal Report Surplus Deficit	2362	2214	-15.1	141	338	359	1537	1632	439	1337	919	2163	3186	1995	1264
39 1967 Federal Report Surplus Deficit	1142	344	-91.7	-332	-67.6	765	3201	3274	2406	1179	-353	3111	5127	3571	1836
40 1968 Federal Report Surplus Deficit	1700	1699	364	39.5	629	380	1979	2629	2623	-578	-658	2021	3948	2326	1497
41 1969 Federal Report Surplus Deficit	1878	2176	1393	749	1692	1201	3980	3984	2688	3344	3980	5056	3882	2587	2733
42 1970 Federal Report Surplus Deficit	804	210	-6.01	97.1	345	-297	1867	2355	924	-383	-527	2891	4901	1427	1203
43 1971 Federal Report Surplus Deficit	423	305	-345	-224	155	236	4279	4711	3796	3151	2820	5510	5659	4071	2587
44 1972 Federal Report Surplus Deficit	2687	2969	558	238	498	678	3750	4233	5353	4515	2219	4927	5672	4133	3015
45 1973 Federal Report Surplus Deficit	2811	3254	712	177	494	305	1485	1663	293	-1332	-1530	349	1511	432	750
46 1974 Federal Report Surplus Deficit	313	-172	-299	-300	-37.6	1353	5406	5096	4621	4211	3869	4411	5897	4964	2922
47 1975 Federal Report Surplus Deficit	2953	3252	636	-404	-28.9	-182	1695	1889	2331	71.1	177	3563	5500	4630	1909
48 1976 Federal Report Surplus Deficit	1752	1908	798	877	1901	3367	3896	4015	3062	3831	2654	5248	4063	4117	3033
49 1977 Federal Report Surplus Deficit	3394	4047	3038	241	37.0	-748	70.4	-150	-667	-1232	-1442	431	687	19.5	449
50 1978 Federal Report Surplus Deficit	285	-15.6	-701	-655	23.7	327	1360	1360	1349	3236	1236	3464	2594	2548	1169
51 1979 Federal Report Surplus Deficit	1235	1057	1276	266	378	-629	684	166	1414	-206	526	3485	1702	146	854
52 1980 Federal Report Surplus Deficit	-94.4	-202	-110	-219	8.33	-1037	780	-286	-1.18	1006	2036	4650	4174	1531	909
53 1981 Federal Report Surplus Deficit	78.1	13.4	91.4	-255	457	1614	3365	3151	662	-970	-375	3473	4985	3568	1700
54 1982 Federal Report Surplus Deficit	2598	2557	348	-117	717	369	2543	4752	4943	3131	1427	4451	5251	4967	2746



**Federal Report Surplus Deficit By Water Year**

**Operating Year 2026**

**2019 White Book** Report Date: **2/5/2020** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2491	2974	1392	783	769	828	2939	3430	3784	2118	1068	3566	3983	4044	2486
56 1984 Federal Report Surplus Deficit	2418	2673	742	60.8	2181	1132	2669	2733	3136	1676	3303	3584	5326	3784	2529
57 1985 Federal Report Surplus Deficit	1952	1156	714	120	768	302	1011	1033	576	1505	2058	2895	1652	409	1065
58 1986 Federal Report Surplus Deficit	-424	-515	-110	343	1183	478	1982	3392	4296	3329	2930	2748	3638	1127	1796
59 1987 Federal Report Surplus Deficit	580	126	-258	-388	612	364	458	-84.8	1043	-90.0	226	3301	1889	0.69	619
60 1988 Federal Report Surplus Deficit	-144	-295	-329	-322	-85.0	-1132	-1256	-544	-199	-744	-176	647	1683	1128	-90.5
61 1989 Federal Report Surplus Deficit	300	128	-166	-312	165	-111	-472	-1251	1268	1035	3656	2897	1797	702	600
62 1990 Federal Report Surplus Deficit	-15.3	46.4	-151	-181	451	830	1574	2708	1914	1223	3026	3039	3781	2136	1510
63 1991 Federal Report Surplus Deficit	1545	1608	-147	-351	2077	1331	3205	2809	2028	1720	1190	3050	3767	3851	2051
64 1992 Federal Report Surplus Deficit	2509	1949	-56.2	-361	168	-1069	131	-0.97	351	-784	-512	2492	1366	-70.6	382
65 1993 Federal Report Surplus Deficit	-15.2	-87.2	-454	-330	93.5	-633	-841	-1438	609	-67.7	-886	3865	2943	1366	401
66 1994 Federal Report Surplus Deficit	300	495	-90.3	-185	303	-526	-820	-54.4	-230	-691	380	1736	1612	919	243
67 1995 Federal Report Surplus Deficit	164	-59.4	-237	-277	-256	-577	605	1449	2122	315	-766	2954	4178	2241	1000
68 1996 Federal Report Surplus Deficit	838	546	381	732	2765	4794	5048	5186	4969	3502	4325	4281	4443	3905	3417
69 1997 Federal Report Surplus Deficit	2277	2143	365	-59.0	673	1268	5096	5288	5043	3922	4552	5765	5306	4272	3279
70 1998 Federal Report Surplus Deficit	2315	3059	1311	2181	1554	290	1108	2567	1247	-193	-331	4753	4904	2480	2067
71 1999 Federal Report Surplus Deficit	1832	1660	-124	-206	-95.0	1071	3692	3850	4078	1653	2413	3499	4849	4374	2393
72 2000 Federal Report Surplus Deficit	3359	3713	460	-77.2	2347	1659	1788	1984	1982	2832	3554	3231	1365	2032	1960
73 2001 Federal Report Surplus Deficit	1312	7.10	-229	-177	-34.3	-824	-108	-485	-195	-1135	-1429	362	526	261	-125
74 2002 Federal Report Surplus Deficit	372	-105	-673	-736	-90.3	-153	-630	-71.2	312	817	2572	2501	4470	3314	841
75 2003 Federal Report Surplus Deficit	541	624	-81.4	-133	217	-773	-412	445	1889	503	509	1390	4021	839	705
76 2004 Federal Report Surplus Deficit	-445	-222	-601	-277	549	311	12.8	-463	468	342	249	1817	2682	842	447
77 2005 Federal Report Surplus Deficit	-192	395	657	237	389	580	1251	1862	478	-935	-666	1901	2404	1221	851
78 2006 Federal Report Surplus Deficit	321	118	-366	-237	565	332	2485	3003	1835	3880	3619	4770	4371	1701	1857
79 2007 Federal Report Surplus Deficit	220	-103	-665	-331	577	386	1833	1212	2961	1761	653	3440	3252	1877	1320
80 2008 Federal Report Surplus Deficit	-35.5	-369	-875	-146	442	-348	127	340	615	16.3	-547	3735	5620	3075	1012
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>419</b>	<b>268</b>	<b>-208</b>	<b>-237</b>	<b>77.2</b>	<b>-791</b>	<b>-851</b>	<b>-455</b>	<b>-195</b>	<b>-731</b>	<b>-1079</b>	<b>396</b>	<b>1457</b>	<b>517</b>	<b>-70.1</b>
82 <b>Middle 80 pct</b>	<b>1163</b>	<b>1020</b>	<b>182</b>	<b>16.5</b>	<b>519</b>	<b>346</b>	<b>1519</b>	<b>1705</b>	<b>1590</b>	<b>1209</b>	<b>1365</b>	<b>3318</b>	<b>3756</b>	<b>2269</b>	<b>1465</b>
83 <b>Top 10 pct</b>	<b>1936</b>	<b>1743</b>	<b>434</b>	<b>387</b>	<b>1285</b>	<b>2381</b>	<b>4616</b>	<b>4708</b>	<b>4314</b>	<b>3470</b>	<b>3725</b>	<b>4825</b>	<b>4738</b>	<b>3885</b>	<b>3076</b>

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2027**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	853	1342	145	-88.2	147	-774	-757	-428	-255	-916	-1233	-492	2237	-205	-37.7
2 1930 Federal Report Surplus Deficit	339	356	114	-28.7	285	-762	-1535	-410	-300	-371	-824	-187	431	755	-158
3 1931 Federal Report Surplus Deficit	515	456	8.29	-24.5	261	-582	-1453	-501	-236	-507	-1323	-8.20	393	696	-155
4 1932 Federal Report Surplus Deficit	765	390	52.6	-268	-104	-672	-837	-1941	1416	1669	3462	3975	3395	2004	862
5 1933 Federal Report Surplus Deficit	1070	1319	495	-75.7	35.0	791	1909	2099	1576	860	381	2386	4991	4002	1667
6 1934 Federal Report Surplus Deficit	2909	2697	608	516	2547	4113	4626	4347	3430	3943	3170	2762	2513	229	2661
7 1935 Federal Report Surplus Deficit	187	490	-243	-137	-444	-188	1790	1861	1572	-168	784	1890	1285	2062	840
8 1936 Federal Report Surplus Deficit	2305	663	-12.8	-155	102	-782	-1394	-850	-38.1	-508	2212	4082	2969	1306	636
9 1937 Federal Report Surplus Deficit	245	296	-234	-8.17	371	-604	-1648	-968	-564	-838	-1186	-166	1605	446	-207
10 1938 Federal Report Surplus Deficit	506	311	170	-100	118	166	1158	1598	2113	2178	3805	3385	2424	2297	1392
11 1939 Federal Report Surplus Deficit	298	258	305	-69.1	-23.9	-849	338	546	504	157	1366	1737	936	882	444
12 1940 Federal Report Surplus Deficit	104	215	-160	41.9	421	333	592	132	1830	1128	486	1994	1001	-243	580
13 1941 Federal Report Surplus Deficit	-15.0	47.5	-20.0	-194	396	-25.9	-207	-308	377	-600	-1308	-140	820	603	32.9
14 1942 Federal Report Surplus Deficit	648	493	291	-258	555	1414	1216	1198	-195	-641	97.0	645	3389	2813	945
15 1943 Federal Report Surplus Deficit	1405	1502	742	-26.0	-104	-177	2258	2005	2210	5237	4372	2501	4493	3996	2008
16 1944 Federal Report Surplus Deficit	1547	1234	186	-124	173	-761	-240	-386	-549	-1185	-1552	-609	320	22.1	-160
17 1945 Federal Report Surplus Deficit	497	145	-65.2	-206	121	-601	-1136	-810	-368	-938	-1328	1594	3191	191	93.9
18 1946 Federal Report Surplus Deficit	442	379	-4.09	-158	298	279	1070	1248	1532	3260	4003	3573	2488	2857	1435
19 1947 Federal Report Surplus Deficit	1965	1701	475	-178	753	2531	3246	2877	2526	1926	1315	3373	2868	2524	2037
20 1948 Federal Report Surplus Deficit	1084	924	368	2131	1833	1234	3048	2632	1506	1193	2754	5044	5063	2923	2396
21 1949 Federal Report Surplus Deficit	2966	2810	860	199	462	149	947	1097	2607	1957	3142	4017	2367	307	1540
22 1950 Federal Report Surplus Deficit	-100	-149	-154	-169	69.4	351	2845	3061	3044	3281	2207	2787	4558	4711	1969
23 1951 Federal Report Surplus Deficit	2883	2615	728	872	2126	2661	4444	4595	3693	3773	2662	3533	2671	3536	2896
24 1952 Federal Report Surplus Deficit	2135	1046	452	1647	1219	1337	2842	2727	1476	3519	4714	4764	3181	2401	2309
25 1953 Federal Report Surplus Deficit	1274	698	-208	-78.7	124	-724	-53.7	3681	864	-942	-309	2403	5027	3819	1249
26 1954 Federal Report Surplus Deficit	1503	1509	502	135	745	777	2351	3202	2152	1280	1199	3364	3627	4407	1996
27 1955 Federal Report Surplus Deficit	3558	4092	2129	266	1274	749	82.4	477	-724	-600	-660	1632	4642	4619	1535
28 1956 Federal Report Surplus Deficit	2730	1973	363	414	1735	2554	4095	4131	3755	3151	4792	4910	4428	3322	2996
29 1957 Federal Report Surplus Deficit	2355	2368	564	370	404	927	1212	494	2026	2886	1560	5384	4606	1524	1851
30 1958 Federal Report Surplus Deficit	1366	507	16.7	-81.6	218	97.0	1925	1948	1385	452	2032	4265	3833	1220	1412
31 1959 Federal Report Surplus Deficit	1144	585	121	135	1260	2052	3861	3853	1900	2381	1538	2729	3963	3882	2205
32 1960 Federal Report Surplus Deficit	2629	2820	2710	2884	2648	1905	2372	1860	1623	3916	2550	1977	3246	1989	2430
33 1961 Federal Report Surplus Deficit	1841	576	180	78.2	692	289	1755	2372	2709	2149	897	3038	3980	1474	1600
34 1962 Federal Report Surplus Deficit	1189	815	0.53	-181	298	310	1731	2046	282	773	3727	2779	2653	1361	1203
35 1963 Federal Report Surplus Deficit	1557	1205	134	606	1361	1763	2393	2062	399	-107	-494	1883	3372	1971	1416
36 1964 Federal Report Surplus Deficit	1228	807	631	-162	365	239	711	915	-112	645	107	2798	5425	4332	1378
37 1965 Federal Report Surplus Deficit	2655	2613	1227	786	1065	2803	4993	4927	3697	580	4326	3691	3668	2454	2858
38 1966 Federal Report Surplus Deficit	2579	2431	203	297	488	503	1471	1567	366	1214	852	1526	2438	1879	1188
39 1967 Federal Report Surplus Deficit	1359	561	126	-177	81.9	910	3135	3210	2283	1076	-376	2404	4338	3380	1743
40 1968 Federal Report Surplus Deficit	1917	1916	582	195	778	524	1913	2565	2511	-641	-724	1384	3371	2238	1437
41 1969 Federal Report Surplus Deficit	2094	2393	1611	905	1842	1345	3914	3920	2596	3274	3805	4437	3318	2448	2668
42 1970 Federal Report Surplus Deficit	1021	427	212	253	494	-153	1801	2290	854	-458	-593	2254	4356	1356	1150
43 1971 Federal Report Surplus Deficit	639	522	-127	-68.4	304	380	4213	4647	3626	3081	2689	4948	5070	3907	2518
44 1972 Federal Report Surplus Deficit	2904	3186	775	393	648	822	3685	4168	5177	4356	2064	4255	4978	4005	2925
45 1973 Federal Report Surplus Deficit	3028	3471	930	332	644	450	1419	1599	222	-1399	-1596	-265	869	354	690
46 1974 Federal Report Surplus Deficit	530	45.2	-81.0	-145	112	1497	5341	5031	4532	4140	3738	3808	5310	4903	2865
47 1975 Federal Report Surplus Deficit	3170	3469	853	-249	121	-37.4	1629	1825	2229	-23.6	111	2940	4893	4502	1843
48 1976 Federal Report Surplus Deficit	1969	2125	1016	1032	2051	3511	3831	3951	2974	3760	2588	4672	3441	3987	2972
49 1977 Federal Report Surplus Deficit	3611	4264	3256	397	186	-604	4.96	-215	-725	-1299	-1508	-192	89.9	-45.4	395
50 1978 Federal Report Surplus Deficit	502	201	-483	-499	173	471	1294	1296	1281	3165	1170	2848	1996	2423	1110
51 1979 Federal Report Surplus Deficit	1452	1274	1493	421	528	-485	618	101	1347	-298	467	2848	1102	73.7	797
52 1980 Federal Report Surplus Deficit	123	15.5	107	-63.4	158	-893	714	-350	-59.2	930	1970	3987	3524	1455	846
53 1981 Federal Report Surplus Deficit	295	231	309	-99.3	607	1758	3300	3086	584	-1035	-435	2838	4277	3407	1626
54 1982 Federal Report Surplus Deficit	2815	2774	566	38.3	866	513	2477	4687	4822	3052	1361	3794	4688	4884	2685

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2027**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2708	3191	1610	938	918	973	2874	3366	3668	2010	1002	2929	3364	3893	2414
56 1984 Federal Report Surplus Deficit	2635	2890	960	216	2330	1277	2604	2668	2991	1523	3237	2948	4713	3659	2456
57 1985 Federal Report Surplus Deficit	2169	1373	932	275	918	446	945	969	504	1398	1992	2258	1053	337	1006
58 1986 Federal Report Surplus Deficit	-207	-298	108	499	1333	622	1917	3327	4198	3259	2864	2111	3086	1050	1740
59 1987 Federal Report Surplus Deficit	797	343	-40.0	-233	762	508	393	-149	950	-176	144	2583	1233	-66.8	547
60 1988 Federal Report Surplus Deficit	72.7	-78.2	-112	-166	64.5	-988	-1321	-608	-258	-800	-239	18.8	1077	1059	-146
61 1989 Federal Report Surplus Deficit	517	345	51.8	-156	315	32.7	-537	-1316	1194	915	3541	2261	1198	629	538
62 1990 Federal Report Surplus Deficit	202	263	66.6	-25.4	601	974	1509	2644	1826	1083	2869	2367	3076	1961	1424
63 1991 Federal Report Surplus Deficit	1762	1825	70.6	-196	2227	1475	3140	2745	1908	1575	1124	2401	3061	3639	1965
64 1992 Federal Report Surplus Deficit	2726	2166	162	-205	318	-925	65.8	-65.5	284	-848	-579	1856	767	-137	325
65 1993 Federal Report Surplus Deficit	202	130	-236	-175	243	-488	-907	-1503	542	-148	-953	3229	2344	1271	342
66 1994 Federal Report Surplus Deficit	517	712	127	-29.4	452	-382	-885	-119	-295	-759	315	1100	1005	843	185
67 1995 Federal Report Surplus Deficit	381	158	-19.3	-121	-106	-433	539	1385	2020	237	-832	2317	3420	2129	923
68 1996 Federal Report Surplus Deficit	1055	764	598	887	2914	4938	4983	5122	4868	3432	4214	3742	3701	3791	3348
69 1997 Federal Report Surplus Deficit	2494	2360	583	96.5	822	1412	5030	5224	4922	3708	4342	5076	4784	4049	3194
70 1998 Federal Report Surplus Deficit	2532	3276	1529	2337	1703	434	1043	2502	1164	-280	-397	4136	4140	2353	1992
71 1999 Federal Report Surplus Deficit	2049	1877	94.1	-50.7	54.5	1215	3626	3786	3909	1534	2346	2811	4181	4244	2310
72 2000 Federal Report Surplus Deficit	3576	3930	678	78.3	2497	1803	1723	1920	1886	2762	3438	2574	760	1922	1893
73 2001 Federal Report Surplus Deficit	1529	224	-11.5	-21.2	115	-680	-173	-550	-248	-1203	-1496	-273	-71.6	190	-180
74 2002 Federal Report Surplus Deficit	589	112	-455	-580	59.2	-8.78	-695	-136	242	671	2505	1864	3714	3128	757
75 2003 Federal Report Surplus Deficit	758	841	136	22.9	367	-629	-478	380	1790	416	442	753	3388	759	640
76 2004 Federal Report Surplus Deficit	-228	-5.04	-383	-122	699	455	-52.6	-528	399	267	178	1180	2083	768	389
77 2005 Federal Report Surplus Deficit	25.4	612	875	393	538	724	1186	1798	413	-1003	-732	1264	1805	1154	795
78 2006 Federal Report Surplus Deficit	538	335	-149	-81.6	715	476	2420	2938	1759	3810	3421	4096	3765	1601	1788
79 2007 Federal Report Surplus Deficit	437	114	-447	-176	727	530	1768	1148	2834	1668	587	2726	2538	1774	1238
80 2008 Federal Report Surplus Deficit	181	-152	-657	9.94	591	-204	61.9	275	554	-66.8	-613	3100	4993	2930	947
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>636</b>	<b>485</b>	<b>9.45</b>	<b>-81.9</b>	<b>227</b>	<b>-647</b>	<b>-917</b>	<b>-520</b>	<b>-254</b>	<b>-803</b>	<b>-1145</b>	<b>-232</b>	<b>851</b>	<b>446</b>	<b>-126</b>
82 <b>Middle 80 pct</b>	<b>1380</b>	<b>1237</b>	<b>400</b>	<b>172</b>	<b>668</b>	<b>490</b>	<b>1453</b>	<b>1641</b>	<b>1499</b>	<b>1115</b>	<b>1284</b>	<b>2678</b>	<b>3117</b>	<b>2156</b>	<b>1397</b>
83 <b>Top 10 pct</b>	<b>2153</b>	<b>1960</b>	<b>651</b>	<b>542</b>	<b>1434</b>	<b>2525</b>	<b>4550</b>	<b>4644</b>	<b>4202</b>	<b>3363</b>	<b>3591</b>	<b>4211</b>	<b>4123</b>	<b>3756</b>	<b>3007</b>

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2028**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	849	1234	87.5	-103	132	-784	-751	-292	-253	-961	-1219	59.4	2766	-210	48.1
2 1930 Federal Report Surplus Deficit	335	248	56.1	-43.6	270	-771	-1530	-274	-298	-403	-810	379	989	751	-67.1
3 1931 Federal Report Surplus Deficit	512	348	-49.2	-39.4	246	-592	-1448	-365	-240	-544	-1308	544	911	691	-69.7
4 1932 Federal Report Surplus Deficit	761	282	-4.88	-283	-119	-682	-831	-1805	1446	1707	3553	4566	3961	2043	961
5 1933 Federal Report Surplus Deficit	1066	1211	437	-90.6	20.0	781	1914	2235	1590	864	381	2956	5460	3998	1754
6 1934 Federal Report Surplus Deficit	2905	2588	550	501	2532	4104	4632	4483	3506	4024	3304	3367	3110	230	2779
7 1935 Federal Report Surplus Deficit	183	381	-301	-152	-459	-197	1795	1997	1608	-201	798	2460	1814	2098	938
8 1936 Federal Report Surplus Deficit	2301	555	-70.2	-170	87.0	-792	-1389	-714	-33.5	-501	2226	4649	3589	1314	731
9 1937 Federal Report Surplus Deficit	241	187	-292	-23.1	356	-613	-1642	-832	-566	-864	-1172	417	2133	459	-118
10 1938 Federal Report Surplus Deficit	502	203	113	-115	103	156	1163	1734	2175	2139	3868	3945	2953	2374	1494
11 1939 Federal Report Surplus Deficit	294	150	248	-84.0	-39.0	-858	343	682	514	145	1379	2306	1504	892	539
12 1940 Federal Report Surplus Deficit	99.9	107	-217	27.0	406	323	597	268	1861	1129	501	2565	1563	-250	674
13 1941 Federal Report Surplus Deficit	-18.9	-60.7	-77.4	-209	381	-35.5	-202	-172	386	-628	-1294	410	1358	597	121
14 1942 Federal Report Surplus Deficit	645	385	234	-273	540	1404	1222	1334	-199	-693	111	1215	3991	2889	1046
15 1943 Federal Report Surplus Deficit	1401	1394	684	-40.9	-119	-186	2264	2141	2293	5243	4452	3071	5106	4146	2128
16 1944 Federal Report Surplus Deficit	1544	1126	129	-139	158	-771	-235	-249	-551	-1227	-1537	-49.9	863	13.4	-72.9
17 1945 Federal Report Surplus Deficit	493	37.1	-123	-221	106	-610	-1130	-674	-374	-980	-1314	2164	3831	188	189
18 1946 Federal Report Surplus Deficit	438	271	-61.5	-173	283	269	1075	1384	1577	3221	4078	4126	3067	2884	1534
19 1947 Federal Report Surplus Deficit	1961	1593	417	-193	738	2521	3251	3014	2575	1901	1329	3962	3489	2579	2146
20 1948 Federal Report Surplus Deficit	1080	816	311	2116	1817	1225	3054	2768	1539	1230	2768	5665	5668	3055	2513
21 1949 Federal Report Surplus Deficit	2962	2701	803	184	447	139	952	1233	2659	1947	3156	4541	2932	310	1633
22 1950 Federal Report Surplus Deficit	-104	-257	-211	-184	54.3	341	2850	3197	3099	3242	2222	3407	5090	4797	2078
23 1951 Federal Report Surplus Deficit	2879	2507	671	858	2111	2651	4450	4732	3733	3734	2756	4099	3271	3683	3014
24 1952 Federal Report Surplus Deficit	2131	938	394	1633	1204	1327	2847	2863	1521	3480	4754	5302	3740	2412	2404
25 1953 Federal Report Surplus Deficit	1270	590	-265	-93.6	109	-734	-48.2	3817	884	-997	-311	2973	5596	3911	1356
26 1954 Federal Report Surplus Deficit	1499	1401	445	120	730	767	2356	3338	2209	1289	1214	3942	4183	4520	2107
27 1955 Federal Report Surplus Deficit	3554	3984	2072	251	1259	740	87.9	613	-726	-628	-646	2202	5178	4674	1626
28 1956 Federal Report Surplus Deficit	2726	1865	306	399	1720	2545	4101	4268	3810	3112	4855	5451	4850	3303	3082
29 1957 Federal Report Surplus Deficit	2352	2260	507	356	389	918	1218	630	2074	2890	1574	5820	5113	1543	1931
30 1958 Federal Report Surplus Deficit	1362	399	-40.7	-96.5	203	87.4	1930	2084	1403	428	2047	4816	4461	1254	1514
31 1959 Federal Report Surplus Deficit	1140	477	63.3	120	1245	2042	3866	3989	1951	2393	1552	3328	4434	3878	2302
32 1960 Federal Report Surplus Deficit	2625	2712	2653	2870	2633	1895	2378	1996	1654	3877	2607	2547	3847	2066	2535
33 1961 Federal Report Surplus Deficit	1837	467	123	63.3	677	280	1761	2508	2736	2158	912	3617	4571	1491	1703
34 1962 Federal Report Surplus Deficit	1185	707	-56.9	-196	283	301	1737	2182	293	780	3786	3349	3183	1374	1300
35 1963 Federal Report Surplus Deficit	1553	1097	76.7	591	1346	1753	2398	2198	406	-126	-480	2453	4021	2001	1521
36 1964 Federal Report Surplus Deficit	1224	699	574	-177	350	230	717	1051	-108	620	123	3368	5968	4361	1470
37 1965 Federal Report Surplus Deficit	2651	2505	1170	771	1049	2793	4999	5063	3745	609	4411	4219	4192	2477	2960
38 1966 Federal Report Surplus Deficit	2575	2323	145	282	473	494	1476	1703	379	1228	867	2096	3116	1921	1297
39 1967 Federal Report Surplus Deficit	1355	453	68.6	-192	66.8	900	3141	3346	2346	1069	-405	3045	5056	3497	1872
40 1968 Federal Report Surplus Deficit	1913	1808	524	180	763	514	1918	2701	2563	-688	-710	1955	3878	2251	1532
41 1969 Federal Report Surplus Deficit	2091	2285	1554	890	1827	1335	3920	4056	2628	3235	3928	4990	3812	2512	2768
42 1970 Federal Report Surplus Deficit	1017	319	154	238	479	-163	1807	2426	864	-493	-579	2824	4830	1352	1238
43 1971 Federal Report Surplus Deficit	636	414	-184	-83.3	289	370	4219	4783	3737	3042	2767	5444	5589	3996	2625
44 1972 Federal Report Surplus Deficit	2900	3078	718	378	632	812	3690	4304	5294	4406	2167	4861	5602	4058	3050
45 1973 Federal Report Surplus Deficit	3024	3363	873	317	629	440	1425	1735	234	-1441	-1582	283	1440	357	785
46 1974 Federal Report Surplus Deficit	527	-63.0	-138	-160	96.8	1488	5346	5167	4561	4101	3817	4344	5826	4889	2960
47 1975 Federal Report Surplus Deficit	3167	3361	796	-264	105	-47.0	1635	1961	2272	-38.1	125	3497	5430	4555	1941
48 1976 Federal Report Surplus Deficit	1965	2017	958	1018	2036	3502	3836	4087	3003	3721	2602	5182	3992	4042	3068
49 1977 Federal Report Surplus Deficit	3607	4156	3198	382	171	-614	10.4	-78.9	-726	-1341	-1494	365	617	-55.2	480
50 1978 Federal Report Surplus Deficit	498	93.3	-541	-514	158	462	1300	1432	1290	3126	1184	3398	2523	2473	1202
51 1979 Federal Report Surplus Deficit	1448	1166	1436	406	513	-494	624	237	1354	-315	474	3418	1631	71.8	885
52 1980 Federal Report Surplus Deficit	119	-92.7	49.9	-78.3	143	-903	720	-214	-60.6	897	1984	4584	4104	1456	938
53 1981 Federal Report Surplus Deficit	291	122	252	-114	591	1749	3305	3222	603	-1080	-427	3406	4914	3493	1737
54 1982 Federal Report Surplus Deficit	2811	2666	508	23.4	851	503	2483	4823	4884	3022	1375	4385	5180	4892	2784

### Federal Report Surplus Deficit By Water Year

#### Operating Year 2028

**2019 White Book** Report Date: 2/5/2020 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2704	3082	1552	923	903	963	2879	3502	3725	2009	1016	3499	3912	3969	2520
56 1984 Federal Report Surplus Deficit	2631	2782	903	201	2315	1267	2609	2804	3077	1566	3251	3518	5256	3709	2562
57 1985 Federal Report Surplus Deficit	2165	1265	874	260	903	436	951	1105	517	1395	2006	2828	1582	334	1098
58 1986 Federal Report Surplus Deficit	-211	-406	50.1	484	1318	613	1922	3463	4237	3220	2878	2681	3567	1052	1833
59 1987 Federal Report Surplus Deficit	793	235	-97.4	-248	747	498	398	-13.3	983	-199	174	3234	1819	-74.0	649
60 1988 Federal Report Surplus Deficit	68.9	-186	-169	-181	49.4	-997	-1316	-472	-259	-853	-229	581	1613	1053	-59.5
61 1989 Federal Report Surplus Deficit	513	237	-5.69	-171	300	23.1	-532	-1180	1208	926	3604	2831	1727	627	627
62 1990 Federal Report Surplus Deficit	198	155	9.11	-40.3	585	964	1514	2780	1854	1114	2974	2973	3711	2062	1545
63 1991 Federal Report Surplus Deficit	1758	1717	13.2	-211	2212	1466	3145	2881	1969	1610	1138	2983	3697	3777	2085
64 1992 Federal Report Surplus Deficit	2722	2058	104	-220	302	-935	71.3	70.5	291	-893	-565	2426	1296	-145	413
65 1993 Federal Report Surplus Deficit	198	21.8	-294	-190	228	-498	-901	-1366	550	-177	-938	3799	2873	1292	428
66 1994 Federal Report Surplus Deficit	513	604	70.0	-44.3	437	-392	-880	17.1	-289	-800	328	1670	1542	844	274
67 1995 Federal Report Surplus Deficit	377	49.6	-76.7	-136	-121	-442	545	1521	2063	206	-818	2888	4107	2167	1033
68 1996 Federal Report Surplus Deficit	1051	655	541	872	2899	4929	4988	5258	4910	3393	4273	4214	4373	3830	3454
69 1997 Federal Report Surplus Deficit	2490	2251	525	81.6	807	1403	5036	5360	4983	3813	4500	5699	5236	4198	3316
70 1998 Federal Report Surplus Deficit	2528	3167	1472	2322	1688	424	1048	2638	1188	-303	-383	4687	4833	2405	2101
71 1999 Federal Report Surplus Deficit	2045	1769	36.6	-65.6	39.5	1205	3632	3922	4018	1543	2361	3433	4779	4300	2429
72 2000 Federal Report Surplus Deficit	3573	3822	621	63.4	2482	1794	1728	2056	1923	2723	3502	3164	1295	1958	1992
73 2001 Federal Report Surplus Deficit	1526	116	-69.0	-36.1	100	-690	-168	-414	-254	-1244	-1482	296	456	186	-93.4
74 2002 Federal Report Surplus Deficit	585	4.08	-513	-595	44.1	-18.4	-690	0.28	253	707	2520	2434	4400	3239	870
75 2003 Federal Report Surplus Deficit	755	733	78.9	8.02	351	-639	-472	516	1830	394	457	1323	3951	765	736
76 2004 Federal Report Surplus Deficit	-232	-113	-441	-136	684	445	-47.2	-391	409	233	197	1750	2612	768	476
77 2005 Federal Report Surplus Deficit	21.5	504	818	378	523	715	1191	1934	419	-1045	-718	1834	2334	1147	886
78 2006 Federal Report Surplus Deficit	534	227	-206	-96.5	700	467	2425	3074	1776	3771	3567	4704	4301	1626	1892
79 2007 Federal Report Surplus Deficit	433	6.00	-505	-190	712	521	1773	1284	2902	1652	601	3374	3182	1802	1352
80 2008 Federal Report Surplus Deficit	178	-260	-714	-4.95	576	-214	67.3	411	556	-92.9	-599	3669	5549	3000	1043

#### Ranked Averages

81 <b>Bottom 10 pct</b>	<b>632</b>	<b>377</b>	<b>-48.0</b>	<b>-96.8</b>	<b>212</b>	<b>-657</b>	<b>-911</b>	<b>-384</b>	<b>-254</b>	<b>-841</b>	<b>-1131</b>	<b>329</b>	<b>1386</b>	<b>442</b>	<b>-39.0</b>
82 <b>Middle 80 pct</b>	<b>1376</b>	<b>1129</b>	<b>343</b>	<b>157</b>	<b>653</b>	<b>481</b>	<b>1459</b>	<b>1777</b>	<b>1531</b>	<b>1099</b>	<b>1313</b>	<b>3251</b>	<b>3685</b>	<b>2194</b>	<b>1497</b>
83 <b>Top 10 pct</b>	<b>2149</b>	<b>1852</b>	<b>594</b>	<b>527</b>	<b>1419</b>	<b>2515</b>	<b>4556</b>	<b>4780</b>	<b>4255</b>	<b>3361</b>	<b>3673</b>	<b>4759</b>	<b>4668</b>	<b>3810</b>	<b>3113</b>

**Federal Report Surplus Deficit By Water Year**

**Operating Year 2029**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	828	1262	87.2	-139	95.8	-827	-784	-448	-268	-935	-1300	-521	2201	-244	-77.2
2 1930 Federal Report Surplus Deficit	315	275	55.8	-79.1	234	-815	-1562	-429	-313	-390	-891	-217	395	716	-197
3 1931 Federal Report Surplus Deficit	491	376	-49.5	-74.9	210	-635	-1480	-521	-249	-526	-1390	-38.0	356	657	-194
4 1932 Federal Report Surplus Deficit	741	310	-5.20	-318	-155	-725	-864	-1961	1404	1650	3395	3945	3359	1965	823
5 1933 Federal Report Surplus Deficit	1045	1239	437	-126	-16.2	738	1882	2079	1563	841	314	2356	4955	3964	1627
6 1934 Federal Report Surplus Deficit	2885	2616	550	466	2496	4060	4599	4327	3418	3924	3103	2733	2477	190	2621
7 1935 Federal Report Surplus Deficit	162	409	-301	-187	-495	-241	1762	1841	1559	-187	717	1860	1248	2023	800
8 1936 Federal Report Surplus Deficit	2280	583	-70.5	-205	50.9	-835	-1421	-870	-50.6	-527	2145	4052	2933	1267	597
9 1937 Federal Report Surplus Deficit	220	215	-292	-58.6	320	-657	-1675	-988	-577	-857	-1253	-196	1568	407	-247
10 1938 Federal Report Surplus Deficit	481	230	112	-151	66.9	113	1131	1578	2101	2159	3738	3355	2388	2258	1352
11 1939 Federal Report Surplus Deficit	273	177	247	-120	-75.1	-902	310	526	491	138	1299	1707	900	843	404
12 1940 Federal Report Surplus Deficit	79.2	135	-217	-8.51	370	280	565	112	1817	1109	419	1965	964	-281	541
13 1941 Federal Report Surplus Deficit	-39.6	-33.0	-77.7	-244	345	-78.9	-234	-327	365	-619	-1375	-170	784	565	-6.62
14 1942 Federal Report Surplus Deficit	624	412	233	-308	504	1361	1189	1178	-208	-660	30.1	615	3353	2774	905
15 1943 Federal Report Surplus Deficit	1380	1421	684	-76.4	-155	-230	2231	1985	2198	5218	4305	2471	4457	3957	1968
16 1944 Federal Report Surplus Deficit	1523	1154	128	-174	122	-814	-267	-405	-562	-1204	-1619	-639	284	-16.8	-200
17 1945 Federal Report Surplus Deficit	473	64.7	-123	-256	69.6	-654	-1163	-830	-380	-957	-1395	1564	3155	152	54.3
18 1946 Federal Report Surplus Deficit	417	298	-61.9	-209	247	226	1043	1228	1519	3241	3936	3543	2451	2818	1395
19 1947 Federal Report Surplus Deficit	1941	1620	417	-228	702	2478	3219	2858	2514	1907	1248	3343	2832	2485	1997
20 1948 Federal Report Surplus Deficit	1060	844	310	2080	1781	1181	3021	2612	1494	1174	2687	5015	5027	2884	2356
21 1949 Federal Report Surplus Deficit	2941	2729	802	149	411	95.8	920	1077	2595	1938	3075	3987	2331	268	1501
22 1950 Federal Report Surplus Deficit	-125	-229	-211	-220	18.1	298	2818	3041	3032	3262	2140	2757	4522	4672	1930
23 1951 Federal Report Surplus Deficit	2858	2535	671	822	2075	2608	4417	4576	3681	3754	2595	3504	2635	3497	2856
24 1952 Federal Report Surplus Deficit	2111	966	394	1597	1168	1284	2814	2707	1463	3500	4647	4735	3144	2362	2269
25 1953 Federal Report Surplus Deficit	1249	617	-266	-129	73.1	-777	-80.8	3662	852	-961	-376	2373	4991	3781	1210
26 1954 Federal Report Surplus Deficit	1479	1429	445	84.3	693	724	2324	3182	2140	1261	1132	3334	3591	4368	1956
27 1955 Federal Report Surplus Deficit	3534	4012	2071	215	1223	696	55.3	457	-737	-619	-727	1602	4606	4580	1495
28 1956 Federal Report Surplus Deficit	2706	1892	306	363	1684	2501	4068	4112	3742	3132	4725	4880	4391	3283	2957
29 1957 Federal Report Surplus Deficit	2331	2287	507	320	353	874	1185	474	2014	2867	1493	5355	4570	1485	1812
30 1958 Federal Report Surplus Deficit	1341	427	-41.0	-132	167	44.0	1898	1929	1372	433	1965	4235	3797	1181	1373
31 1959 Federal Report Surplus Deficit	1119	505	62.9	85.0	1209	1999	3834	3833	1887	2362	1471	2699	3927	3843	2165
32 1960 Federal Report Surplus Deficit	2604	2739	2653	2834	2597	1852	2345	1840	1610	3897	2483	1947	3210	1950	2391
33 1961 Federal Report Surplus Deficit	1816	495	123	27.8	641	236	1728	2352	2696	2130	830	3008	3944	1436	1561
34 1962 Federal Report Surplus Deficit	1165	735	-57.2	-231	247	257	1704	2026	269	754	3660	2749	2617	1322	1163
35 1963 Federal Report Surplus Deficit	1532	1125	76.4	556	1310	1710	2365	2042	386	-126	-561	1853	3335	1932	1377
36 1964 Federal Report Surplus Deficit	1203	727	574	-213	314	186	684	895	-124	626	39.8	2768	5389	4293	1338
37 1965 Federal Report Surplus Deficit	2630	2533	1169	735	1013	2750	4966	4907	3684	561	4259	3661	3632	2415	2818
38 1966 Federal Report Surplus Deficit	2554	2350	145	246	437	451	1444	1547	353	1195	786	1496	2402	1840	1149
39 1967 Federal Report Surplus Deficit	1335	481	68.3	-227	30.7	857	3108	3190	2271	1057	-442	2374	4302	3342	1703
40 1968 Federal Report Surplus Deficit	1893	1835	524	145	727	471	1886	2545	2499	-660	-791	1354	3335	2199	1397
41 1969 Federal Report Surplus Deficit	2070	2313	1553	855	1791	1292	3887	3900	2583	3255	3738	4407	3281	2409	2628
42 1970 Federal Report Surplus Deficit	996	347	154	202	443	-206	1774	2270	842	-477	-660	2224	4320	1318	1110
43 1971 Federal Report Surplus Deficit	615	441	-185	-119	253	327	4186	4627	3614	3062	2622	4919	5034	3868	2478
44 1972 Federal Report Surplus Deficit	2879	3105	718	343	596	769	3658	4148	5164	4337	1997	4225	4942	3966	2886
45 1973 Federal Report Surplus Deficit	3004	3390	872	282	593	397	1392	1579	209	-1418	-1663	-295	833	315	651
46 1974 Federal Report Surplus Deficit	506	-35.3	-139	-195	60.6	1444	5314	5012	4520	4121	3671	3778	5274	4864	2826
47 1975 Federal Report Surplus Deficit	3146	3388	796	-299	69.3	-90.4	1602	1805	2216	-42.7	44.0	2910	4857	4463	1804
48 1976 Federal Report Surplus Deficit	1944	2044	958	982	2000	3458	3804	3931	2962	3741	2521	4642	3405	3948	2933
49 1977 Federal Report Surplus Deficit	3586	4184	3198	347	135	-657	-22.2	-235	-737	-1318	-1575	-221	53.8	-84.3	356
50 1978 Federal Report Surplus Deficit	477	121	-541	-550	122	418	1267	1276	1269	3146	1103	2818	1960	2385	1070
51 1979 Federal Report Surplus Deficit	1427	1194	1436	371	477	-538	591	81.2	1335	-317	400	2818	1066	34.8	757
52 1980 Federal Report Surplus Deficit	98.0	-65.1	49.6	-114	107	-946	687	-370	-71.7	911	1903	3957	3488	1416	806
53 1981 Federal Report Surplus Deficit	270	150	251	-150	555	1705	3272	3067	571	-1054	-502	2808	4240	3368	1587
54 1982 Federal Report Surplus Deficit	2791	2693	508	-12.1	815	460	2450	4668	4809	3033	1294	3765	4652	4845	2645

### Federal Report Surplus Deficit By Water Year

#### Operating Year 2029

**2019 White Book** Report Date: 2/5/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2683	3110	1552	888	867	920	2847	3346	3656	1991	935	2899	3328	3854	2375
56 1984 Federal Report Surplus Deficit	2610	2809	902	166	2279	1224	2576	2648	2979	1504	3170	2918	4677	3620	2417
57 1985 Federal Report Surplus Deficit	2145	1293	874	225	866	393	918	949	491	1379	1925	2228	1017	298	967
58 1986 Federal Report Surplus Deficit	-231	-378	49.8	448	1281	570	1890	3308	4186	3239	2797	2081	3050	1011	1701
59 1987 Federal Report Surplus Deficit	772	263	-97.7	-283	711	455	366	-169	937	-195	76.7	2554	1196	-106	507
60 1988 Federal Report Surplus Deficit	48.2	-159	-169	-217	13.2	-1041	-1349	-628	-271	-819	-306	-11.0	1041	1020	-185
61 1989 Federal Report Surplus Deficit	493	264	-6.00	-206	264	-20.2	-564	-1336	1182	896	3474	2231	1162	590	498
62 1990 Federal Report Surplus Deficit	177	183	8.79	-75.8	549	921	1481	2624	1813	1064	2802	2337	3040	1922	1384
63 1991 Federal Report Surplus Deficit	1738	1745	12.9	-246	2176	1422	3112	2725	1896	1556	1057	2371	3025	3600	1925
64 1992 Federal Report Surplus Deficit	2701	2085	104	-255	266	-978	38.6	-85.4	271	-867	-646	1826	731	-175	286
65 1993 Federal Report Surplus Deficit	177	49.4	-294	-225	192	-541	-934	-1522	530	-167	-1020	3199	2308	1232	302
66 1994 Federal Report Surplus Deficit	492	631	69.7	-79.8	401	-435	-912	-139	-307	-778	248	1070	969	804	146
67 1995 Federal Report Surplus Deficit	357	77.2	-77.0	-171	-157	-486	512	1365	2007	218	-899	2288	3384	2090	883
68 1996 Federal Report Surplus Deficit	1031	683	541	837	2863	4885	4955	5102	4856	3413	4147	3713	3665	3752	3308
69 1997 Federal Report Surplus Deficit	2470	2279	525	46.1	771	1359	5003	5204	4909	3689	4275	5046	4747	4010	3155
70 1998 Federal Report Surplus Deficit	2507	3195	1471	2287	1652	381	1016	2482	1152	-299	-464	4106	4104	2314	1952
71 1999 Federal Report Surplus Deficit	2024	1797	36.3	-101	3.28	1162	3599	3766	3897	1515	2280	2782	4145	4205	2270
72 2000 Federal Report Surplus Deficit	3552	3850	620	27.9	2446	1750	1696	1900	1873	2743	3371	2544	724	1883	1853
73 2001 Federal Report Surplus Deficit	1505	144	-69.3	-71.6	64.0	-733	-200	-570	-261	-1222	-1563	-303	-108	151	-220
74 2002 Federal Report Surplus Deficit	565	31.7	-513	-631	7.94	-61.8	-722	-156	230	652	2438	1834	3678	3089	718
75 2003 Federal Report Surplus Deficit	734	761	78.6	-27.5	315	-682	-505	360	1777	397	375	723	3351	720	601
76 2004 Federal Report Surplus Deficit	-252	-85.6	-441	-172	648	402	-79.8	-547	387	248	111	1150	2047	729	349
77 2005 Federal Report Surplus Deficit	0.83	532	817	342	487	671	1158	1778	401	-1022	-799	1234	1769	1115	755
78 2006 Federal Report Surplus Deficit	514	255	-206	-132	664	423	2393	2918	1747	3791	3354	4066	3729	1562	1748
79 2007 Federal Report Surplus Deficit	413	33.6	-505	-226	675	477	1741	1128	2822	1649	520	2697	2502	1735	1199
80 2008 Federal Report Surplus Deficit	157	-233	-715	-40.5	540	-257	34.7	255	541	-85.8	-680	3070	4957	2891	907

**Ranked Averages**

81 <b>Bottom 10 pct</b>	<b>611</b>	<b>404</b>	<b>-48.3</b>	<b>-132</b>	<b>175</b>	<b>-700</b>	<b>-944</b>	<b>-540</b>	<b>-267</b>	<b>-822</b>	<b>-1212</b>	<b>-262</b>	<b>815</b>	<b>407</b>	<b>-166</b>
82 <b>Middle 80 pct</b>	<b>1355</b>	<b>1156</b>	<b>342</b>	<b>122</b>	<b>617</b>	<b>437</b>	<b>1426</b>	<b>1621</b>	<b>1486</b>	<b>1096</b>	<b>1217</b>	<b>2648</b>	<b>3081</b>	<b>2117</b>	<b>1357</b>
83 <b>Top 10 pct</b>	<b>2128</b>	<b>1880</b>	<b>594</b>	<b>492</b>	<b>1383</b>	<b>2472</b>	<b>4523</b>	<b>4624</b>	<b>4190</b>	<b>3344</b>	<b>3524</b>	<b>4181</b>	<b>4086</b>	<b>3717</b>	<b>2967</b>

### Federal Report Surplus Deficit By Water Year

#### Operating Year 2030

**2019 White Book** Report Date: 2/5/2020

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Federal Report Surplus Deficit	799	1232	56.3	-124	108	-812	-770	-452	-275	-951	-1260	43.1	2743	-225	16.6
2 1930 Federal Report Surplus Deficit	285	246	24.9	-64.8	246	-800	-1548	-433	-320	-394	-851	362	966	736	-99.0
3 1931 Federal Report Surplus Deficit	462	347	-80.4	-60.7	222	-621	-1466	-525	-262	-535	-1350	527	888	676	-101
4 1932 Federal Report Surplus Deficit	711	280	-36.2	-304	-143	-711	-850	-1965	1424	1717	3512	4550	3938	2028	936
5 1933 Federal Report Surplus Deficit	1016	1209	406	-112	-4.23	752	1896	2075	1568	873	340	2939	5437	3983	1720
6 1934 Federal Report Surplus Deficit	2855	2587	519	480	2508	4075	4613	4323	3484	4033	3263	3351	3087	215	2742
7 1935 Federal Report Surplus Deficit	133	380	-332	-173	-483	-226	1776	1837	1586	-192	757	2444	1790	2083	902
8 1936 Federal Report Surplus Deficit	2251	553	-101	-191	62.9	-821	-1407	-874	-55.3	-492	2185	4633	3566	1299	703
9 1937 Federal Report Surplus Deficit	191	186	-323	-44.3	332	-642	-1661	-992	-588	-855	-1213	401	2110	444	-148
10 1938 Federal Report Surplus Deficit	452	201	81.4	-136	78.9	128	1145	1574	2153	2148	3827	3929	2930	2359	1461
11 1939 Federal Report Surplus Deficit	244	148	216	-105	-63.2	-887	325	522	492	155	1338	2290	1481	877	506
12 1940 Federal Report Surplus Deficit	49.8	105	-248	5.73	382	295	579	108	1839	1138	459	2548	1540	-265	643
13 1941 Federal Report Surplus Deficit	-68.9	-62.4	-109	-230	357	-64.2	-220	-331	364	-619	-1335	394	1334	582	88.9
14 1942 Federal Report Surplus Deficit	595	383	202	-294	516	1376	1203	1174	-221	-684	70.1	1199	3967	2874	1012
15 1943 Federal Report Surplus Deficit	1351	1392	653	-62.2	-143	-215	2245	1981	2271	5253	4411	3055	5083	4131	2095
16 1944 Federal Report Surplus Deficit	1494	1124	97.4	-160	134	-800	-253	-409	-573	-1218	-1579	-66.2	840	-1.66	-105
17 1945 Federal Report Surplus Deficit	443	35.4	-154	-242	81.6	-639	-1149	-834	-396	-970	-1355	2148	3808	173	158
18 1946 Federal Report Surplus Deficit	388	269	-92.8	-195	258	241	1057	1224	1555	3230	4037	4109	3044	2869	1502
19 1947 Federal Report Surplus Deficit	1911	1591	386	-214	714	2493	3233	2854	2553	1910	1288	3946	3466	2564	2111
20 1948 Federal Report Surplus Deficit	1030	814	279	2095	1793	1196	3035	2608	1517	1239	2727	5649	5645	3040	2480
21 1949 Federal Report Surplus Deficit	2912	2700	771	163	423	111	934	1073	2637	1956	3115	4524	2909	295	1601
22 1950 Federal Report Surplus Deficit	-154	-259	-242	-206	30.1	313	2832	3037	3077	3252	2180	3391	5067	4782	2042
23 1951 Federal Report Surplus Deficit	2829	2505	640	836	2087	2622	4431	4572	3711	3743	2715	4083	3248	3668	2977
24 1952 Federal Report Surplus Deficit	2081	936	363	1611	1180	1298	2828	2703	1500	3489	4713	5286	3717	2396	2370
25 1953 Federal Report Surplus Deficit	1220	588	-297	-115	85.1	-763	-66.7	3657	862	-988	-352	2957	5573	3896	1317
26 1954 Federal Report Surplus Deficit	1449	1400	414	98.5	705	739	2338	3178	2187	1298	1172	3926	4160	4505	2071
27 1955 Federal Report Surplus Deficit	3504	3982	2041	230	1235	711	69.4	453	-748	-619	-687	2186	5155	4658	1596
28 1956 Federal Report Surplus Deficit	2676	1863	275	378	1696	2516	4082	4108	3788	3122	4814	5435	4827	3288	3046
29 1957 Federal Report Surplus Deficit	2302	2258	476	334	364	889	1199	470	2052	2899	1533	5804	5090	1528	1902
30 1958 Federal Report Surplus Deficit	1312	397	-72.0	-118	179	58.7	1912	1925	1381	437	2005	4799	4438	1239	1480
31 1959 Federal Report Surplus Deficit	1090	475	32.0	99.2	1221	2013	3848	3829	1929	2402	1511	3312	4411	3863	2265
32 1960 Federal Report Surplus Deficit	2575	2710	2622	2848	2609	1867	2359	1836	1633	3886	2566	2531	3824	2051	2503
33 1961 Federal Report Surplus Deficit	1787	466	91.8	42.0	653	251	1742	2348	2714	2168	871	3600	4547	1476	1668
34 1962 Federal Report Surplus Deficit	1135	705	-88.2	-217	259	272	1718	2022	271	789	3745	3333	3160	1359	1265
35 1963 Federal Report Surplus Deficit	1503	1095	45.4	570	1322	1725	2379	2038	384	-116	-521	2437	3997	1986	1486
36 1964 Federal Report Surplus Deficit	1174	697	543	-198	325	201	698	891	-130	629	81.3	3352	5945	4346	1439
37 1965 Federal Report Surplus Deficit	2601	2503	1138	749	1025	2765	4980	4903	3723	618	4369	4203	4169	2462	2922
38 1966 Federal Report Surplus Deficit	2525	2321	114	261	449	465	1458	1543	358	1237	826	2080	3093	1906	1263
39 1967 Federal Report Surplus Deficit	1305	451	37.4	-213	42.6	871	3122	3186	2324	1079	-446	3029	5033	3482	1835
40 1968 Federal Report Surplus Deficit	1863	1806	493	159	739	485	1900	2541	2542	-678	-751	1938	3855	2236	1496
41 1969 Federal Report Surplus Deficit	2041	2284	1522	869	1803	1306	3901	3896	2606	3244	3887	4974	3788	2497	2732
42 1970 Federal Report Surplus Deficit	967	317	123	216	455	-192	1788	2266	842	-483	-620	2808	4807	1337	1202
43 1971 Federal Report Surplus Deficit	586	412	-216	-105	265	342	4200	4623	3715	3051	2726	5427	5566	3981	2587
44 1972 Federal Report Surplus Deficit	2850	3076	687	357	608	784	3672	4144	5272	4415	2126	4845	5579	4043	3014
45 1973 Federal Report Surplus Deficit	2974	3361	841	296	605	411	1406	1575	212	-1431	-1623	266	1417	342	749
46 1974 Federal Report Surplus Deficit	477	-64.7	-170	-181	72.6	1459	5328	5008	4539	4111	3776	4328	5803	4874	2922
47 1975 Federal Report Surplus Deficit	3117	3359	765	-285	81.3	-75.7	1616	1801	2250	-28.8	84.1	3480	5407	4540	1908
48 1976 Federal Report Surplus Deficit	1915	2015	927	996	2012	3473	3818	3927	2981	3731	2561	5165	3969	4027	3032
49 1977 Federal Report Surplus Deficit	3557	4154	3167	361	147	-643	-8.08	-239	-748	-1332	-1535	348	594	-70.2	449
50 1978 Federal Report Surplus Deficit	448	91.6	-572	-535	134	433	1281	1272	1268	3136	1143	3381	2500	2458	1169
51 1979 Federal Report Surplus Deficit	1398	1164	1405	385	489	-523	605	77.2	1333	-306	433	3402	1608	56.7	854
52 1980 Federal Report Surplus Deficit	68.7	-94.4	18.6	-99.5	119	-932	701	-374	-82.5	906	1943	4567	4081	1441	909
53 1981 Federal Report Surplus Deficit	241	121	220	-135	567	1720	3286	3062	581	-1070	-468	3390	4891	3478	1700
54 1982 Federal Report Surplus Deficit	2761	2664	477	2.18	827	475	2464	4663	4862	3031	1334	4369	5157	4877	2746



**Federal Report Surplus Deficit By Water Year**

**Operating Year 2030**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Federal Report Surplus Deficit	2654	3081	1521	902	879	934	2861	3342	3703	2018	975	3483	3889	3954	2485
56 1984 Federal Report Surplus Deficit	2581	2780	871	180	2291	1238	2591	2644	3055	1576	3210	3501	5233	3694	2528
57 1985 Federal Report Surplus Deficit	2115	1264	843	239	878	408	932	945	495	1405	1965	2812	1559	319	1065
58 1986 Federal Report Surplus Deficit	-261	-408	18.9	463	1293	584	1904	3303	4215	3229	2837	2665	3544	1037	1796
59 1987 Federal Report Surplus Deficit	743	233	-129	-269	723	470	380	-173	962	-190	132	3218	1796	-89.1	618
60 1988 Federal Report Surplus Deficit	18.8	-188	-200	-203	25.2	-1026	-1335	-632	-281	-844	-270	565	1589	1038	-90.9
61 1989 Federal Report Surplus Deficit	463	235	-37.0	-192	276	-5.56	-550	-1340	1186	935	3563	2815	1704	612	599
62 1990 Federal Report Surplus Deficit	148	154	-22.2	-61.6	561	936	1496	2620	1833	1123	2932	2956	3688	2047	1510
63 1991 Federal Report Surplus Deficit	1708	1715	-18.1	-232	2188	1437	3127	2721	1947	1620	1097	2967	3674	3762	2051
64 1992 Federal Report Surplus Deficit	2672	2056	72.9	-241	278	-963	52.8	-89.4	270	-884	-606	2410	1273	-160	381
65 1993 Federal Report Surplus Deficit	148	20.0	-325	-211	204	-527	-920	-1526	528	-168	-979	3783	2850	1277	401
66 1994 Federal Report Surplus Deficit	463	602	38.7	-65.6	413	-421	-898	-143	-311	-791	286	1654	1518	829	243
67 1995 Federal Report Surplus Deficit	327	47.8	-108	-157	-145	-471	526	1361	2041	215	-859	2871	4084	2152	999
68 1996 Federal Report Surplus Deficit	1001	654	510	851	2875	4900	4970	5098	4888	3402	4232	4198	4349	3815	3416
69 1997 Federal Report Surplus Deficit	2440	2250	494	60.3	783	1374	5017	5200	4961	3822	4458	5682	5213	4183	3278
70 1998 Federal Report Surplus Deficit	2478	3166	1441	2301	1664	396	1030	2478	1166	-293	-424	4670	4810	2390	2067
71 1999 Federal Report Surplus Deficit	1995	1767	5.36	-86.8	15.3	1177	3613	3762	3997	1553	2320	3417	4756	4285	2392
72 2000 Federal Report Surplus Deficit	3522	3820	590	42.1	2458	1765	1710	1896	1901	2732	3460	3148	1272	1942	1960
73 2001 Federal Report Surplus Deficit	1476	114	-100	-57.4	76.0	-719	-186	-574	-276	-1235	-1523	280	432	171	-125
74 2002 Federal Report Surplus Deficit	535	2.34	-544	-616	19.9	-47.1	-708	-160	231	717	2478	2418	4377	3224	840
75 2003 Federal Report Surplus Deficit	704	731	47.6	-13.2	327	-668	-491	356	1808	403	416	1307	3928	750	704
76 2004 Federal Report Surplus Deficit	-282	-115	-472	-158	660	416	-65.7	-551	387	242	156	1734	2589	753	446
77 2005 Federal Report Surplus Deficit	-28.5	502	786	356	499	686	1173	1774	397	-1035	-759	1818	2311	1132	851
78 2006 Federal Report Surplus Deficit	484	226	-237	-118	676	438	2407	2914	1754	3780	3526	4688	4278	1611	1857
79 2007 Federal Report Surplus Deficit	383	4.25	-536	-212	687	492	1755	1124	2880	1662	560	3357	3159	1787	1320
80 2008 Federal Report Surplus Deficit	128	-262	-746	-26.2	552	-242	48.8	251	534	-83.6	-640	3653	5526	2985	1012
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>582</b>	<b>375</b>	<b>-79.3</b>	<b>-118</b>	<b>187</b>	<b>-686</b>	<b>-930</b>	<b>-544</b>	<b>-276</b>	<b>-831</b>	<b>-1173</b>	<b>313</b>	<b>1363</b>	<b>427</b>	<b>-70.5</b>
82 <b>Middle 80 pct</b>	<b>1326</b>	<b>1127</b>	<b>311</b>	<b>136</b>	<b>629</b>	<b>452</b>	<b>1440</b>	<b>1617</b>	<b>1509</b>	<b>1109</b>	<b>1271</b>	<b>3235</b>	<b>3662</b>	<b>2179</b>	<b>1464</b>
83 <b>Top 10 pct</b>	<b>2099</b>	<b>1850</b>	<b>563</b>	<b>506</b>	<b>1395</b>	<b>2487</b>	<b>4537</b>	<b>4620</b>	<b>4233</b>	<b>3370</b>	<b>3631</b>	<b>4742</b>	<b>4645</b>	<b>3795</b>	<b>3076</b>

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***Exhibit 44***  
***Regional Report Surplus Deficit By Water***  
***Year 80 Water Year Surplus/Deficit***

***Monthly Energy***  
***Operating Year 2021 to 2030***

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2021**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	3478	5093	5028	5014	5272	1676	736	1611	1908	2277	724	2373	8347	2770	3376
2 1930 Regional Report Surplus Deficit	3603	3732	5072	4969	4384	1193	89.2	1984	1870	3313	920	2642	4164	4314	3038
3 1931 Regional Report Surplus Deficit	4157	4159	5355	4830	4576	1377	333	1315	2086	2756	245	2682	3543	3648	2955
4 1932 Regional Report Surplus Deficit	4227	3871	5558	4507	4159	1428	1560	-450	5438	8047	9399	9941	10459	7215	5240
5 1933 Regional Report Surplus Deficit	4466	5250	5068	4687	5511	5086	6412	6825	5719	6364	2949	7350	13691	12308	6845
6 1934 Regional Report Surplus Deficit	8250	7706	5705	6774	10208	10194	11090	11566	9808	11973	9115	8541	8398	3423	8661
7 1935 Regional Report Surplus Deficit	2722	3634	4431	4621	4974	3289	6140	6655	5743	3784	3820	6835	6849	7534	5331
8 1936 Regional Report Surplus Deficit	6512	4344	4544	4439	4594	1406	682	745	2325	3504	6810	10340	9990	5737	4629
9 1937 Regional Report Surplus Deficit	3555	3753	4653	5067	4443	1418	-281	160	1353	2863	317	2334	6918	4289	2974
10 1938 Regional Report Surplus Deficit	3782	3558	4985	4625	5487	3901	5236	5265	7323	8780	10093	10019	8379	7781	6343
11 1939 Regional Report Surplus Deficit	2910	3311	5048	4623	4722	1758	3632	3867	3627	4912	5567	6330	5747	4698	4363
12 1940 Regional Report Surplus Deficit	3541	3858	4775	4837	4994	3859	3704	3223	6371	6380	3191	6628	5337	2219	4542
13 1941 Regional Report Surplus Deficit	2608	3100	4462	4801	4723	2729	1520	2429	2982	2705	-199	2364	4784	3421	3194
14 1942 Regional Report Surplus Deficit	4089	4124	5185	4727	5087	5985	4629	5060	1956	2862	2938	4086	10169	8737	5214
15 1943 Regional Report Surplus Deficit	4267	5206	5192	4637	5086	3225	6993	6842	7409	14142	11404	8246	12707	12177	7493
16 1944 Regional Report Surplus Deficit	6095	5451	4948	5273	4595	1835	1869	1969	1490	2667	-289	1326	3902	2725	3077
17 1945 Regional Report Surplus Deficit	4162	3827	5205	4494	4012	1357	1359	1505	1842	2361	421	5655	10145	3741	3727
18 1946 Regional Report Surplus Deficit	3853	3812	5324	5242	5096	4067	5168	5694	5931	10660	10674	10885	9202	9433	6711
19 1947 Regional Report Surplus Deficit	5447	5156	5190	4775	6722	8805	8266	9207	8278	8541	6157	9019	9681	8277	7562
20 1948 Regional Report Surplus Deficit	4669	4408	5417	9987	9150	5947	8330	7654	5503	7353	8079	12836	14407	9591	8421
21 1949 Regional Report Surplus Deficit	7968	7576	5808	5525	6120	3450	4202	5102	7833	8996	8904	10512	9099	4409	6566
22 1950 Regional Report Surplus Deficit	3075	3064	4784	4930	5325	4277	8336	9024	9505	11476	7585	8661	13380	13909	7881
23 1951 Regional Report Surplus Deficit	7887	8039	5701	7463	10257	9406	10532	12899	10539	12125	8925	10178	9453	10966	9638
24 1952 Regional Report Surplus Deficit	7096	5520	5375	9078	7929	6368	7953	8218	5844	10681	11718	12319	10118	7956	8216
25 1953 Regional Report Surplus Deficit	5839	4316	4789	5294	4315	1395	3596	9952	4579	2909	2022	7973	13564	11250	6153
26 1954 Regional Report Surplus Deficit	5030	5877	5611	5379	6752	5530	7790	9219	7608	7848	5191	9875	11962	13452	7922
27 1955 Regional Report Surplus Deficit	9592	10766	8493	5711	8065	5040	3063	4020	1283	3820	688	5550	13518	13270	6713
28 1956 Regional Report Surplus Deficit	7970	6828	5407	6582	9307	9053	10807	10496	10274	10868	12710	12770	13779	10580	9844
29 1957 Regional Report Surplus Deficit	6390	5924	5423	6194	6069	5827	5271	4392	7075	10619	5609	12877	13188	6297	7252
30 1958 Regional Report Surplus Deficit	3648	3700	5044	4819	4929	3498	6743	7299	5644	6031	6692	11096	11415	5660	6334
31 1959 Regional Report Surplus Deficit	3725	4250	5118	5219	7927	7991	9682	10528	6815	9812	6336	8973	11705	11486	8106
32 1960 Regional Report Surplus Deficit	7083	6127	9842	11518	10679	7250	6947	6906	6225	12301	8031	7016	10079	7451	8382
33 1961 Regional Report Surplus Deficit	6062	4434	5113	5057	6810	3983	6419	7843	8259	8957	3836	8918	12032	5978	6819
34 1962 Regional Report Surplus Deficit	3979	4255	4918	4823	5146	3832	6049	6530	3042	6994	10277	8205	8893	5818	5817
35 1963 Regional Report Surplus Deficit	6019	5451	5317	6095	8216	7172	6847	7810	3570	4366	1256	6504	10710	6959	6464
36 1964 Regional Report Surplus Deficit	5332	4839	5853	4758	5939	3898	4542	4854	2530	6361	2969	8307	14687	12473	6464
37 1965 Regional Report Surplus Deficit	8239	6380	6921	6673	7201	9388	11093	12880	10248	6436	11247	10789	10715	8307	9172
38 1966 Regional Report Surplus Deficit	8392	7991	5657	5706	6113	4352	5646	5676	3771	7834	4421	6120	8884	7065	6106
39 1967 Regional Report Surplus Deficit	5552	4194	4969	4680	5135	5619	8695	9160	7652	6819	1910	8086	13623	10517	7266
40 1968 Regional Report Surplus Deficit	6587	5124	5279	5909	6812	4642	6946	8407	8442	3116	499	5740	11028	8034	6562
41 1969 Regional Report Surplus Deficit	6899	6861	8017	7303	9284	6434	9782	10195	7738	11344	11118	11961	10937	8267	8983
42 1970 Regional Report Surplus Deficit	4256	3713	5414	5390	5861	3138	6676	7519	4713	3392	768	7584	11932	6130	5850
43 1971 Regional Report Surplus Deficit	4627	4354	5270	5332	4988	4121	10650	12066	10450	10977	8588	12631	14718	12132	8861
44 1972 Regional Report Surplus Deficit	8557	6236	5799	6089	6654	5221	9846	10539	14463	14502	7880	11901	14787	12059	9651
45 1973 Regional Report Surplus Deficit	9027	9035	6429	5905	6388	4951	5665	5863	3055	2588	-486	2641	5173	3720	4985
46 1974 Regional Report Surplus Deficit	3771	2785	4620	4699	5010	6613	12421	13599	12107	12471	10937	11011	14979	14097	9480
47 1975 Regional Report Surplus Deficit	8603	8387	6252	4724	5377	3829	6432	6780	7506	4818	3227	9095	13140	12963	7391
48 1976 Regional Report Surplus Deficit	6784	7308	6446	7587	9829	10544	10084	10716	8718	11699	8148	11806	10795	11827	9606
49 1977 Regional Report Surplus Deficit	10979	12620	9364	5637	5145	1964	2316	2154	1419	2256	-758	2035	2829	2219	3981
50 1978 Regional Report Surplus Deficit	4093	3959	4592	3606	4584	4633	5167	5250	5134	10790	5322	8839	7646	8375	5826
51 1979 Regional Report Surplus Deficit	4764	4792	7574	5693	5859	2393	3473	3278	5684	3620	2980	8000	6072	3477	4971
52 1980 Regional Report Surplus Deficit	3254	3323	5264	4650	4700	1952	4032	2792	2787	6522	6923	10811	10904	6282	5353
53 1981 Regional Report Surplus Deficit	2986	3595	5098	4595	6133	7689	8376	9084	3935	2376	1694	7990	12255	9822	6677
54 1982 Regional Report Surplus Deficit	7812	7421	5615	5165	6744	4732	7402	11473	12625	10620	5919	10375	12530	13309	8804

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2021**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	8235	7333	7440	6977	6999	5887	8943	9646	10385	9000	4710	8772	10264	11583	8456
56 1984 Regional Report Surplus Deficit	8278	6755	6105	5602	10331	6245	8673	8122	8679	7651	8121	8187	12537	10677	8371
57 1985 Regional Report Surplus Deficit	7359	5916	6345	5733	7360	4220	4457	4690	3828	7661	6563	7729	6110	3864	5669
58 1986 Regional Report Surplus Deficit	2445	2879	5192	6163	8241	4483	6920	9257	11635	11148	8312	7410	9780	5168	7192
59 1987 Regional Report Surplus Deficit	4620	3888	5043	5136	6119	4247	3418	2846	5158	4235	3237	7757	5643	2798	4689
60 1988 Regional Report Surplus Deficit	2708	2628	4434	4384	3945	891	598	1240	2023	2781	2338	2744	5676	4940	3011
61 1989 Regional Report Surplus Deficit	3555	3548	4754	5026	5080	3088	1749	133	4981	6699	9844	7532	6375	4678	4622
62 1990 Regional Report Surplus Deficit	3458	3893	4625	4748	6400	5757	6445	7975	6423	7094	8232	7530	10622	7618	6605
63 1991 Regional Report Surplus Deficit	6998	5775	4801	5044	10089	6227	8104	8558	7073	8102	4818	7696	10183	11159	7637
64 1992 Regional Report Surplus Deficit	8250	7421	4509	4291	5350	1527	2608	3016	3227	2560	890	5742	4082	2224	3850
65 1993 Regional Report Surplus Deficit	3014	3081	4366	4392	4425	1539	835	-8.30	3545	4228	592	8906	8004	5666	3950
66 1994 Regional Report Surplus Deficit	5027	5085	5317	4938	4734	2062	1190	2199	2289	2928	3874	4961	5134	4299	3803
67 1995 Regional Report Surplus Deficit	3352	2998	4766	4921	3978	2543	3835	6014	7285	5151	691	7528	10784	7378	5419
68 1996 Regional Report Surplus Deficit	4217	4823	5554	6702	11329	11616	11881	13560	13009	11537	11832	10371	11245	10966	10179
69 1997 Regional Report Surplus Deficit	7787	5640	5569	5242	6782	6479	12307	13038	12887	12068	12059	13350	14267	12268	10057
70 1998 Regional Report Surplus Deficit	8425	7497	7886	10598	8897	4710	5529	7800	5577	4490	1979	10796	12126	7879	7745
71 1999 Regional Report Surplus Deficit	6447	4190	5521	5408	4753	6325	9762	9796	11228	8618	7527	8832	12574	12842	8361
72 2000 Regional Report Surplus Deficit	10406	10429	5584	5267	10147	7297	6329	6530	6397	9994	9883	8045	5937	6863	7398
73 2001 Regional Report Surplus Deficit	6081	3446	4785	4758	4515	1505	1392	1549	1705	2536	-589	2272	2880	2778	2825
74 2002 Regional Report Surplus Deficit	3938	3449	4306	3294	4035	3074	2065	2547	3044	5890	7345	6751	11601	9973	5086
75 2003 Regional Report Surplus Deficit	3768	3802	4583	4533	4974	1591	1973	3595	6240	5151	3375	4219	9798	4256	4476
76 2004 Regional Report Surplus Deficit	2701	3017	4148	4634	5540	3759	2622	1752	3233	4697	2900	4935	7486	4710	4131
77 2005 Regional Report Surplus Deficit	2715	4416	5334	5524	5949	4797	4957	5754	3269	2141	571	5050	6902	5206	4799
78 2006 Regional Report Surplus Deficit	3757	3411	4556	4583	5323	3860	8126	8242	6092	11473	9403	10484	11696	6047	6896
79 2007 Regional Report Surplus Deficit	2910	2889	4270	4363	6528	4367	6214	5257	9023	8121	3683	7946	8427	6386	5967
80 2008 Regional Report Surplus Deficit	3305	2912	3819	4559	5055	2718	2647	2923	3670	4062	1083	8475	13939	9585	5263
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>4036</b>	<b>3920</b>	<b>4842</b>	<b>4887</b>	<b>4556</b>	<b>1578</b>	<b>782</b>	<b>1532</b>	<b>1927</b>	<b>2737</b>	<b>434</b>	<b>2342</b>	<b>5027</b>	<b>3611</b>	<b>3056</b>
82 <b>Middle 80 pct</b>	<b>5383</b>	<b>5127</b>	<b>5487</b>	<b>5428</b>	<b>6210</b>	<b>4384</b>	<b>5614</b>	<b>6120</b>	<b>5848</b>	<b>6859</b>	<b>5180</b>	<b>8136</b>	<b>10019</b>	<b>7694</b>	<b>6346</b>
83 <b>Top 10 pct</b>	<b>6902</b>	<b>6005</b>	<b>5752</b>	<b>6380</b>	<b>8296</b>	<b>8540</b>	<b>11121</b>	<b>12216</b>	<b>11530</b>	<b>11463</b>	<b>10467</b>	<b>11522</b>	<b>12503</b>	<b>11384</b>	<b>9704</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2022**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	4031	3990	3602	3655	3887	903	249	1095	1701	218	-740	2526	8565	2428	2696
2 1930 Regional Report Surplus Deficit	2133	1995	3301	3618	3022	404	-398	1468	1659	1252	-542	2797	4377	3971	2220
3 1931 Regional Report Surplus Deficit	2249	2076	3154	3487	3202	616	-153	800	1877	692	-1224	2835	3760	3302	2071
4 1932 Regional Report Surplus Deficit	2417	1731	3135	3160	2790	664	1074	-965	5223	5866	7478	9934	10534	6860	4288
5 1933 Regional Report Surplus Deficit	4229	3777	3889	3344	4137	4308	6013	6032	5726	4136	1657	7219	13589	11716	6072
6 1934 Regional Report Surplus Deficit	7609	6882	4637	5429	9077	10709	11196	10767	9712	10005	7173	7763	8338	3077	8026
7 1935 Regional Report Surplus Deficit	1940	2298	2670	3272	3585	2518	5674	6151	5524	1710	2342	6848	7109	7155	4549
8 1936 Regional Report Surplus Deficit	5944	2907	3199	3082	3225	638	195	229	2114	1423	5323	10357	10108	5390	3875
9 1937 Regional Report Surplus Deficit	2053	2059	2639	3716	3072	651	-767	-356	1144	795	-1152	2475	7080	3945	2132
10 1938 Regional Report Surplus Deficit	2654	1890	3446	3266	4096	3098	4750	5314	6563	6550	8460	9526	8573	7435	5483
11 1939 Regional Report Surplus Deficit	2672	2281	3524	3265	3340	977	3146	3352	3416	2850	4147	6496	5989	4357	3650
12 1940 Regional Report Surplus Deficit	1776	1922	2905	3482	3624	3072	3217	2708	6171	4308	1714	6768	5547	1875	3693
13 1941 Regional Report Surplus Deficit	1192	1412	2874	3442	3343	1947	1033	1922	2767	641	-1668	2508	4985	3076	2392
14 1942 Regional Report Surplus Deficit	2170	1892	3338	3375	3711	5171	4143	4547	1747	812	1474	4217	10274	8384	4335
15 1943 Regional Report Surplus Deficit	4084	4181	4408	3287	3677	2423	6528	6346	7113	12154	9882	8315	12692	11827	6805
16 1944 Regional Report Surplus Deficit	5085	4011	3913	3906	3203	1053	1382	1453	1279	606	-1758	1475	4118	2383	2347
17 1945 Regional Report Surplus Deficit	2154	1635	2770	3149	2613	583	872	990	1632	302	-1049	5783	10069	3396	2785
18 1946 Regional Report Surplus Deficit	2441	2134	3272	3888	3700	3265	4681	5178	5762	8640	8983	9812	9295	9034	5747
19 1947 Regional Report Surplus Deficit	5502	4822	4146	3412	5332	8076	7877	8549	8047	6585	4730	9063	9758	7915	6909
20 1948 Regional Report Surplus Deficit	3809	3429	4007	8608	7660	5169	7884	7149	5285	5074	6576	11733	13946	9189	7505
21 1949 Regional Report Surplus Deficit	7800	7359	5006	4157	4730	2661	3715	4594	7760	6726	7549	10600	9221	4065	5939
22 1950 Regional Report Surplus Deficit	2060	1701	3098	3565	3940	3513	7924	8575	9132	9333	6427	8262	13145	13206	6996
23 1951 Regional Report Surplus Deficit	7960	7307	4836	6081	8723	8979	10542	12623	10494	10180	7496	9555	9507	10492	9006
24 1952 Regional Report Surplus Deficit	6156	3946	4497	7688	6496	5554	7438	7663	5619	8652	10175	11478	10183	7602	7382
25 1953 Regional Report Surplus Deficit	4183	3534	2914	3916	2914	592	3109	9549	4367	829	577	8077	13522	10870	5334
26 1954 Regional Report Surplus Deficit	4908	4652	4249	3992	5340	4719	7324	8736	7196	5909	3827	9025	11364	12856	7029
27 1955 Regional Report Surplus Deficit	9184	9693	7744	4333	6607	4231	2576	3505	1073	1755	-773	5719	13246	12631	5976
28 1956 Regional Report Surplus Deficit	7361	5475	4201	5215	7791	8393	10489	10144	10383	8804	10756	11593	13345	10170	8984
29 1957 Regional Report Surplus Deficit	6597	6448	4522	4796	4658	5014	4784	3877	6924	8455	4144	12398	13040	5936	6580
30 1958 Regional Report Surplus Deficit	4429	2628	3262	3421	3518	2695	6278	6794	5452	3954	5211	11200	11450	5314	5611
31 1959 Regional Report Surplus Deficit	3945	2560	3460	3835	6475	7219	9783	9453	6652	7778	4875	8031	11521	11002	7234
32 1960 Regional Report Surplus Deficit	6847	7046	9107	10122	9394	6598	6482	6380	5839	10280	6551	7156	10192	7112	7808
33 1961 Regional Report Surplus Deficit	5396	2997	3671	3690	5409	3180	5953	7487	7852	6823	2453	8141	11705	5629	5942
34 1962 Regional Report Surplus Deficit	4307	2860	3261	3451	3736	3029	5574	6026	2830	4922	8684	8179	9043	5474	5066
35 1963 Regional Report Surplus Deficit	4898	3955	3716	4697	6760	6411	6480	7305	3362	2294	-197	6685	10753	6597	5674
36 1964 Regional Report Surplus Deficit	3867	3149	4421	3393	4528	3104	4056	4339	2319	4242	1526	8295	14441	11922	5600
37 1965 Regional Report Surplus Deficit	7201	6830	5855	5315	5790	8659	10890	12487	10317	4483	9753	9882	10752	7941	8480
38 1966 Regional Report Surplus Deficit	6906	6567	3979	4334	4701	3549	5159	5160	3560	5722	2971	6296	9042	6715	5297
39 1967 Regional Report Surplus Deficit	4133	2700	3689	3321	3734	4806	8347	8614	7445	4826	473	7732	13142	10177	6409
40 1968 Regional Report Surplus Deficit	5551	5206	4334	4534	5430	3846	6480	7902	8220	1043	-951	5925	11016	7659	5888
41 1969 Regional Report Surplus Deficit	5771	6568	6871	5948	7778	5619	9531	9522	7599	9259	9076	11086	10852	7913	8156
42 1970 Regional Report Surplus Deficit	4168	2664	3736	4010	4475	2336	6211	7014	4260	1452	-642	7753	12000	5774	5098
43 1971 Regional Report Surplus Deficit	3181	2678	3206	3965	3577	3318	10521	11699	10405	9009	7100	11630	14292	11764	7922
44 1972 Regional Report Surplus Deficit	7901	7900	4872	4707	5242	4418	9590	10920	14134	11998	6368	10842	14339	11687	8976
45 1973 Regional Report Surplus Deficit	8143	8532	5397	4532	4976	4148	5178	5347	2843	528	-1956	2783	5408	3375	4299
46 1974 Regional Report Surplus Deficit	2460	1426	3544	3328	3598	5836	12706	12739	12251	10552	9009	10080	14603	13415	8624
47 1975 Regional Report Surplus Deficit	8384	8521	5046	3360	3989	3026	5966	6275	7071	2924	1746	8763	13233	12578	6683
48 1976 Regional Report Surplus Deficit	5822	6140	5413	6201	8297	10329	9995	10055	8523	9703	6605	11036	10823	11352	8844
49 1977 Regional Report Surplus Deficit	9953	11123	8654	4269	3744	1184	1830	1639	1210	194	-2227	2186	3053	1875	3275
50 1978 Regional Report Surplus Deficit	2045	1507	2554	2244	3173	3820	4649	4657	5046	8778	3865	8479	7795	8031	4879
51 1979 Regional Report Surplus Deficit	4645	4306	6722	4342	4479	1614	2986	2763	5467	1458	1589	8143	6266	3135	4334
52 1980 Regional Report Surplus Deficit	1824	1748	3359	3293	3297	1155	3545	2277	2578	4394	5389	10449	11043	5924	4471
53 1981 Regional Report Surplus Deficit	2275	2170	3796	3246	4753	7015	8333	8660	3727	211	176	8073	12037	9437	5944
54 1982 Regional Report Surplus Deficit	6927	6676	4290	3799	5332	3929	6937	11697	12261	8629	4426	10128	12645	12934	8086

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2022**

**2019 White Book** Report Date: **2/5/2020** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	7138	7708	6469	5604	5592	5073	8484	9317	10537	6790	3304	8967	10437	11203	7845
56 1984 Regional Report Surplus Deficit	7186	7324	5100	4231	8833	5431	8218	7655	8726	5470	6738	8312	12675	10283	7731
57 1985 Regional Report Surplus Deficit	6183	4391	5171	4338	5948	3417	3963	4170	3617	5539	5035	7906	6293	3519	4905
58 1986 Regional Report Surplus Deficit	1420	1230	3630	4789	6804	3686	6454	9009	11751	9047	6737	7528	9981	4827	6445
59 1987 Regional Report Surplus Deficit	3258	2301	3390	3766	4721	3461	2932	2331	4938	2018	1843	7702	5823	2454	3862
60 1988 Regional Report Surplus Deficit	1602	1330	3682	3034	2567	88.1	111	725	1814	719	871	2893	5867	4598	2306
61 1989 Regional Report Surplus Deficit	2263	1818	3052	3688	3728	2336	1224	-381	4656	4605	8404	7654	6554	4337	3803
62 1990 Regional Report Surplus Deficit	2262	2123	3445	3401	5039	4989	5944	7386	6299	5060	6795	7325	10386	7241	5780
63 1991 Regional Report Surplus Deficit	5114	4999	3499	3699	8696	5505	7956	8006	6667	6114	3687	7660	10139	10740	6869
64 1992 Regional Report Surplus Deficit	7108	5852	3544	2958	4006	789	2121	2528	2991	493	-576	5827	4293	1881	3120
65 1993 Regional Report Surplus Deficit	1556	1391	3175	3057	3076	802	349	-524	3331	2158	-878	8950	8140	5317	3172
66 1994 Regional Report Surplus Deficit	3209	2749	3407	3587	3371	1310	704	1684	2078	868	2410	5114	5384	3955	2938
67 1995 Regional Report Surplus Deficit	2042	1595	3060	3586	2631	1805	3348	5517	7066	3082	-779	7616	10805	7008	4612
68 1996 Regional Report Surplus Deficit	4172	2818	4186	5353	10148	12251	12074	13179	13053	9694	10048	9903	11323	10563	9593
69 1997 Regional Report Surplus Deficit	6651	6244	4423	3893	5421	5685	12198	12643	13135	10342	10245	12268	13859	11828	9322
70 1998 Regional Report Surplus Deficit	7124	8112	6840	9223	7464	3939	5042	7295	5360	2410	524	10825	12247	7517	7070
71 1999 Regional Report Surplus Deficit	5506	5594	3574	4071	3372	5503	9433	9725	11093	6335	6189	8866	12677	12352	7703
72 2000 Regional Report Surplus Deficit	9262	8936	4613	3921	9051	6648	5858	6029	6148	8115	8421	8075	6095	6520	6696
73 2001 Regional Report Surplus Deficit	4558	2442	3263	3413	3160	680	906	1034	1496	475	-2059	2413	3099	2432	2055
74 2002 Regional Report Surplus Deficit	2089	1393	2456	1950	2679	2330	1575	2035	2808	3787	5921	6864	11362	9577	4190
75 2003 Regional Report Surplus Deficit	3718	2991	3391	3203	3631	854	1486	3080	6019	2967	2012	4412	9880	3911	3803
76 2004 Regional Report Surplus Deficit	962	1271	2980	3290	4179	3002	2135	1236	3023	2497	1528	5114	7636	4365	3349
77 2005 Regional Report Surplus Deficit	1666	2676	5030	4188	4598	4039	4470	5249	2985	140	-800	5188	7167	4865	4128
78 2006 Regional Report Surplus Deficit	2407	1961	3446	3244	3968	3113	7458	7952	5886	9332	7805	10542	11553	5689	6110
79 2007 Regional Report Surplus Deficit	2755	1833	2973	3014	5158	3606	5749	4742	8877	6038	2197	8035	8548	6043	5266
80 2008 Regional Report Surplus Deficit	2219	1305	2513	3217	3696	1963	2149	2421	3381	2059	-344	8575	13564	9212	4450
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>2863</b>	<b>2414</b>	<b>3304</b>	<b>3534</b>	<b>3182</b>	<b>793</b>	<b>295</b>	<b>1018</b>	<b>1717</b>	<b>675</b>	<b>-1034</b>	<b>2490</b>	<b>5231</b>	<b>3267</b>	<b>2277</b>
82 <b>Middle 80 pct</b>	<b>4443</b>	<b>3982</b>	<b>4104</b>	<b>4067</b>	<b>4824</b>	<b>3627</b>	<b>5179</b>	<b>5630</b>	<b>5630</b>	<b>4777</b>	<b>3705</b>	<b>8024</b>	<b>10033</b>	<b>7312</b>	<b>5570</b>
83 <b>Top 10 pct</b>	<b>6191</b>	<b>5518</b>	<b>4666</b>	<b>5012</b>	<b>6876</b>	<b>8069</b>	<b>11060</b>	<b>11849</b>	<b>11536</b>	<b>9469</b>	<b>8785</b>	<b>10645</b>	<b>12319</b>	<b>10931</b>	<b>8979</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2023**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	3533	3694	3218	3206	3393	466	68.7	939	1246	912	-172	1702	7821	2305	2360
2 1930 Regional Report Surplus Deficit	1635	1698	2922	3172	2533	-33.6	-578	1312	1206	1942	25.7	1971	3613	3842	1882
3 1931 Regional Report Surplus Deficit	1751	1780	2777	3040	2710	179	-334	643	1425	1385	-657	2023	3002	3184	1735
4 1932 Regional Report Surplus Deficit	1919	1434	2758	2716	2300	227	893	-1122	4774	6635	8376	9261	9829	6714	3984
5 1933 Regional Report Surplus Deficit	3730	3480	3510	2898	3642	3892	5806	5809	5304	4826	2218	6686	12585	11299	5711
6 1934 Regional Report Surplus Deficit	7111	6634	4252	4981	8655	10372	11197	10562	9274	10737	7935	7586	7326	2951	7761
7 1935 Regional Report Surplus Deficit	1442	2001	2293	2824	3087	2081	5484	6012	5069	2416	2920	6145	6350	7019	4222
8 1936 Regional Report Surplus Deficit	5446	2610	2821	2637	2735	201	14.9	72.7	1658	2129	5903	9651	9395	5250	3552
9 1937 Regional Report Surplus Deficit	1554	1762	2262	3271	2583	214	-948	-512	692	1490	-585	1666	6354	3816	1800
10 1938 Regional Report Surplus Deficit	2156	1593	3067	2821	3602	2661	4580	5168	6119	7267	9050	9248	7789	7283	5192
11 1939 Regional Report Surplus Deficit	2174	1985	3146	2819	2848	539	2965	3195	2954	3552	4721	5673	5252	4234	3315
12 1940 Regional Report Surplus Deficit	1278	1625	2528	3037	3133	2634	3036	2551	5718	5012	2290	5983	4806	1755	3362
13 1941 Regional Report Surplus Deficit	694	1116	2497	3001	2854	1510	853	1765	2304	1330	-1101	1689	4236	2958	2056
14 1942 Regional Report Surplus Deficit	1672	1596	2959	2930	3220	4756	3973	4401	1293	1503	2048	3413	9665	8229	4013
15 1943 Regional Report Surplus Deficit	3607	3903	4024	2841	3182	1985	6337	6242	6670	12791	10391	7448	11884	11577	6450
16 1944 Regional Report Surplus Deficit	4583	3715	3529	3458	2710	616	1202	1297	828	1296	-1191	663	3362	2264	2011
17 1945 Regional Report Surplus Deficit	1656	1338	2393	2708	2124	146	691	833	1182	997	-481	4950	9472	3268	2461
18 1946 Regional Report Surplus Deficit	1943	1837	2892	3440	3206	2828	4500	5029	5270	9272	9731	9614	8601	8856	5466
19 1947 Regional Report Surplus Deficit	5004	4525	3762	2963	4834	7639	7719	8425	7626	7271	5289	8246	9012	7759	6576
20 1948 Regional Report Surplus Deficit	3311	3133	3620	8185	7238	4751	7688	7046	4830	5797	7172	11454	13254	9035	7231
21 1949 Regional Report Surplus Deficit	7293	7127	4621	3708	4235	2224	3540	4441	7318	7445	8141	9853	8503	3935	5617
22 1950 Regional Report Surplus Deficit	1562	1404	2718	3118	3445	3076	7770	8432	8700	10020	6987	7928	12276	12865	6677
23 1951 Regional Report Surplus Deficit	7451	7047	4450	5634	8303	8542	10645	11915	9981	10872	8076	9352	8795	10263	8701
24 1952 Regional Report Surplus Deficit	5655	3650	4108	7241	6026	5137	7226	7579	5181	9391	10836	11354	9517	7428	7121
25 1953 Regional Report Surplus Deficit	3685	3237	2537	3470	2423	155	2929	9420	3901	1519	1144	7238	12777	10669	4992
26 1954 Regional Report Surplus Deficit	4410	4355	3869	3546	4847	4290	7134	8614	6712	6628	4420	8762	10550	12408	6710
27 1955 Regional Report Surplus Deficit	8665	9481	7415	3884	6161	3815	2396	3348	621	2448	-206	4904	12233	12216	5607
28 1956 Regional Report Surplus Deficit	6861	5179	3819	4767	7369	7956	10279	9976	9958	9624	11663	11347	12537	10048	8715
29 1957 Regional Report Surplus Deficit	6098	6153	4138	4348	4164	4598	4614	3720	6454	9116	4678	12076	12195	5807	6276
30 1958 Regional Report Surplus Deficit	3930	2331	2885	2973	3025	2258	6087	6690	4989	4637	5767	10443	10675	5167	5278
31 1959 Regional Report Surplus Deficit	3447	2263	3081	3388	6018	6782	9487	9467	6223	8475	5445	7779	10619	10773	6933
32 1960 Regional Report Surplus Deficit	6347	6783	8791	9743	8976	6172	6273	6244	5384	11005	7163	6341	9432	6958	7491
33 1961 Regional Report Surplus Deficit	4898	2700	3287	3243	4913	2743	5762	7383	7426	7521	3024	7907	10863	5495	5653
34 1962 Regional Report Surplus Deficit	3809	2564	2881	3002	3243	2592	5392	5905	2377	5638	9390	7516	8287	5341	4751
35 1963 Regional Report Surplus Deficit	4400	3659	3335	4248	6308	5994	6291	7201	2906	2989	371	5884	10048	6460	5350
36 1964 Regional Report Surplus Deficit	3369	2852	4039	2947	4034	2666	3875	4182	1862	4934	2092	7595	13633	11611	5253
37 1965 Regional Report Surplus Deficit	6701	6557	5465	4866	5294	8221	11341	11755	9821	5220	10350	9545	10121	7777	8200
38 1966 Regional Report Surplus Deficit	6405	6284	3588	3885	4206	3112	4990	5015	3093	6402	3523	5487	8255	6577	4956
39 1967 Regional Report Surplus Deficit	3635	2403	3307	2875	3239	4386	8177	8473	7012	5529	1040	7333	12425	9986	6111
40 1968 Regional Report Surplus Deficit	5053	4909	3954	4086	4934	3409	6290	7799	7800	1747	-384	5124	10287	7517	5560
41 1969 Regional Report Surplus Deficit	5273	6270	6480	5501	7358	5202	9361	9330	7209	9990	9919	10890	9992	7721	7881
42 1970 Regional Report Surplus Deficit	3670	2367	3354	3561	3982	1898	6020	6910	3809	2152	-73.9	6971	11314	5649	4773
43 1971 Regional Report Surplus Deficit	2682	2382	2824	3516	3083	2881	10332	11585	9933	9687	7651	11367	13580	11517	7625
44 1972 Regional Report Surplus Deficit	7399	7675	4487	4258	4748	3981	9420	10777	13537	12944	6907	10499	13570	11429	8668
45 1973 Regional Report Surplus Deficit	7639	8322	5013	4083	4482	3711	5009	5202	2388	1219	-1388	1968	4640	3252	3966
46 1974 Regional Report Surplus Deficit	1962	1130	3165	2882	3101	5402	12725	12625	11713	11188	9707	9781	13820	13081	8328
47 1975 Regional Report Surplus Deficit	7883	8312	4662	2913	3496	2589	5775	6130	6640	3620	2315	8474	12592	12400	6402
48 1976 Regional Report Surplus Deficit	5318	5839	5023	5753	7875	9892	9844	9902	8101	10416	7173	10837	10121	11064	8562
49 1977 Regional Report Surplus Deficit	9396	10639	8342	3821	3251	747	1649	1482	758	885	-1660	1367	2291	1752	2933
50 1978 Regional Report Surplus Deficit	1547	1211	2176	1802	2682	3403	4483	4482	4624	9474	4402	8249	7046	7878	4594
51 1979 Regional Report Surplus Deficit	4146	4008	6331	3894	3987	1177	2806	2606	5011	2145	2149	7360	5468	3012	3995
52 1980 Regional Report Surplus Deficit	1326	1452	2980	2847	2805	718	3365	2120	2123	5100	5970	9955	10324	5793	4166
53 1981 Regional Report Surplus Deficit	1777	1874	3410	2798	4257	6578	8211	8557	3269	906	743	7289	11139	9254	5601
54 1982 Regional Report Surplus Deficit	6429	6416	3908	3351	4839	3492	6746	11634	11789	9461	4521	9680	11896	12627	7758



**Regional Report Surplus Deficit By Water Year**

**Operating Year 2023**

**2019 White Book** Report Date: **2/5/2020** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	6636	7499	6084	5155	5098	4658	8293	9214	9950	7471	3859	8153	9673	10991	7496
56 1984 Regional Report Surplus Deficit	6684	7096	4715	3783	8412	5016	8028	7552	8272	6200	7340	7546	12084	10112	7425
57 1985 Regional Report Surplus Deficit	5685	4094	4787	3890	5454	2980	3763	3999	3155	6240	5609	7080	5554	3394	4566
58 1986 Regional Report Surplus Deficit	922	934	3242	4340	6344	3249	6263	8866	11166	9773	7350	6734	9232	4705	6105
59 1987 Regional Report Surplus Deficit	2760	2005	3008	3317	4227	3023	2751	2174	4481	2718	2415	7031	5062	2332	3538
60 1988 Regional Report Surplus Deficit	1104	1033	3303	2591	2078	-349	-69.1	568	1359	1410	1436	2081	5121	4468	1971
61 1989 Regional Report Surplus Deficit	1765	1521	2675	3243	3236	1899	1044	-538	4209	5358	9077	6888	5852	4214	3484
62 1990 Regional Report Surplus Deficit	1764	1826	3060	2955	4548	4573	5760	7190	5873	5816	7377	6888	9493	7122	5469
63 1991 Regional Report Surplus Deficit	4616	4703	3118	3252	8276	5087	7828	7864	6345	6793	4053	6968	9346	10444	6541
64 1992 Regional Report Surplus Deficit	6609	5555	3163	2514	3513	352	1941	2371	2534	1185	-8.82	4992	3538	1759	2782
65 1993 Regional Report Surplus Deficit	1058	1094	2798	2611	2584	365	168	-680	2877	2859	-310	8103	7391	5185	2834
66 1994 Regional Report Surplus Deficit	2706	2453	3020	3139	2881	873	523	1527	1625	1559	2974	4313	4608	3829	2601
67 1995 Regional Report Surplus Deficit	1544	1298	2683	3142	2140	1368	3168	5393	6632	3780	-211	6805	10222	6859	4293
68 1996 Regional Report Surplus Deficit	3674	2521	3804	4905	9717	12115	12106	13156	12430	10244	10734	9633	10467	10322	9328
69 1997 Regional Report Surplus Deficit	6152	5952	4039	3446	4926	5270	11953	12554	12470	11014	10990	11944	13059	11533	8999
70 1998 Regional Report Surplus Deficit	6622	7903	6451	8841	7030	3502	4862	7192	4908	3112	1092	10031	11585	7364	6759
71 1999 Regional Report Surplus Deficit	5008	5297	3195	3625	2878	5087	9246	9615	10540	6996	6685	8077	11910	11916	7333
72 2000 Regional Report Surplus Deficit	8762	8727	4233	3475	8630	6222	5670	5924	5689	8814	9037	7340	5366	6369	6382
73 2001 Regional Report Surplus Deficit	4060	2146	2884	2966	2668	243	725	877	1047	1167	-1491	1604	2340	2314	1719
74 2002 Regional Report Surplus Deficit	1591	1096	2079	1510	2190	1893	1394	1878	2355	4487	6493	6048	10425	9401	3836
75 2003 Regional Report Surplus Deficit	3220	2695	3010	2758	3139	417	1306	2923	5582	3669	2588	3598	9262	3791	3480
76 2004 Regional Report Surplus Deficit	464	974	2603	2847	3687	2565	1955	1080	2573	3202	2107	4298	6904	4238	3016
77 2005 Regional Report Surplus Deficit	1168	2380	4638	3740	4102	3623	4300	5107	2534	835	-232	4366	6380	4739	3791
78 2006 Regional Report Surplus Deficit	1909	1665	3065	2796	3475	2676	7267	7792	5491	10078	8393	9700	10701	5490	5763
79 2007 Regional Report Surplus Deficit	2257	1536	2595	2568	4663	3168	5558	4587	8418	6731	2762	7274	7770	5888	4929
80 2008 Regional Report Surplus Deficit	1721	1009	2135	2772	3204	1525	1968	2265	2927	2752	224	7851	12698	9080	4112
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>2364</b>	<b>2118</b>	<b>2924</b>	<b>3088</b>	<b>2691</b>	<b>356</b>	<b>115</b>	<b>861</b>	<b>1264</b>	<b>1367</b>	<b>-467</b>	<b>1675</b>	<b>4481</b>	<b>3144</b>	<b>1942</b>
82 <b>Middle 80 pct</b>	<b>3943</b>	<b>3695</b>	<b>3725</b>	<b>3623</b>	<b>4343</b>	<b>3198</b>	<b>4999</b>	<b>5492</b>	<b>5178</b>	<b>5480</b>	<b>4285</b>	<b>7383</b>	<b>9268</b>	<b>7133</b>	<b>5248</b>
83 <b>Top 10 pct</b>	<b>5690</b>	<b>5237</b>	<b>4281</b>	<b>4564</b>	<b>6417</b>	<b>7672</b>	<b>11039</b>	<b>11583</b>	<b>11001</b>	<b>10190</b>	<b>9450</b>	<b>10367</b>	<b>11561</b>	<b>10690</b>	<b>8688</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2024**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	3436	3611	3182	3168	3411	384	-42.1	1156	1391	1582	179	1963	8162	2251	2444
2 1930 Regional Report Surplus Deficit	1538	1616	2880	3131	2546	-116	-689	1529	1349	2619	377	2241	4177	3792	1987
3 1931 Regional Report Surplus Deficit	1654	1697	2733	3000	2726	96.6	-445	861	1566	2058	-306	2258	3544	3125	1833
4 1932 Regional Report Surplus Deficit	1822	1352	2714	2673	2314	145	782	-905	4844	7271	8687	9387	10214	6659	4039
5 1933 Regional Report Surplus Deficit	3633	3398	3468	2857	3661	3701	5564	5895	5320	5500	2567	6842	12877	11149	5736
6 1934 Regional Report Surplus Deficit	7001	6551	4216	4942	8539	10126	10892	10569	9200	11143	8216	7723	7802	2900	7767
7 1935 Regional Report Surplus Deficit	1345	1919	2250	2785	3109	1987	5368	5931	5103	3067	3246	6369	6815	6939	4284
8 1936 Regional Report Surplus Deficit	5349	2528	2779	2595	2749	119	-95.9	290	1805	2795	6243	9753	9754	5195	3617
9 1937 Regional Report Surplus Deficit	1457	1680	2218	3229	2596	132	-1059	-295	838	2168	-234	1925	6837	3762	1892
10 1938 Regional Report Surplus Deficit	2059	1511	3026	2779	3620	2554	4338	5254	6135	7859	9317	9413	8267	7235	5242
11 1939 Regional Report Surplus Deficit	2077	1902	3103	2778	2864	457	2800	3370	3106	4200	5043	5870	5757	4179	3401
12 1940 Regional Report Surplus Deficit	1181	1543	2484	2995	3144	2506	2833	2769	5739	5654	2607	6146	5329	1697	3428
13 1941 Regional Report Surplus Deficit	597	1033	2453	2955	2842	1406	1055	1620	2452	2012	-750	1949	4773	2900	2152
14 1942 Regional Report Surplus Deficit	1575	1513	2917	2888	3196	4565	3731	4487	1436	2167	2385	3638	10009	8139	4061
15 1943 Regional Report Surplus Deficit	3510	3820	3987	2800	3201	1904	6095	6328	6689	13283	10757	7660	12316	11516	6501
16 1944 Regional Report Surplus Deficit	4490	3632	3492	3419	2727	534	1091	1514	974	1974	-840	915	3922	2206	2115
17 1945 Regional Report Surplus Deficit	1559	1256	2349	2662	2137	63.9	581	1050	1322	1670	-130	5180	9873	3219	2546
18 1946 Regional Report Surplus Deficit	1846	1755	2852	3401	3224	2725	4468	4891	5336	9886	10026	9706	8966	8776	5503
19 1947 Regional Report Surplus Deficit	4762	4247	3725	2925	4838	7448	7594	8354	7606	7879	5572	8454	9387	7657	6596
20 1948 Regional Report Surplus Deficit	3214	3050	3586	8045	7129	4562	7446	7131	4920	6395	7443	11644	13404	8962	7235
21 1949 Regional Report Surplus Deficit	7201	7045	4585	3670	4254	2133	3304	4534	7319	8045	8416	9943	8925	3871	5654
22 1950 Regional Report Surplus Deficit	1465	1322	2677	3078	3464	2918	7528	8517	8695	10609	7271	8118	12635	12745	6713
23 1951 Regional Report Surplus Deficit	7359	6969	4416	5594	8193	8351	10343	11922	9890	11273	8311	9469	9259	10246	8710
24 1952 Regional Report Surplus Deficit	5561	3567	4076	7146	5965	4948	6984	7665	5235	9902	11084	11486	9955	7364	7146
25 1953 Regional Report Surplus Deficit	3588	3155	2494	3429	2438	73.2	2818	9463	4032	2180	1474	7400	13050	10528	5054
26 1954 Regional Report Surplus Deficit	4313	4273	3828	3505	4839	4113	6892	8700	6737	7257	4723	8864	10910	12322	6742
27 1955 Regional Report Surplus Deficit	8265	9276	7384	3846	6076	3624	2261	3531	767	3127	145	5133	12574	12145	5645
28 1956 Regional Report Surplus Deficit	6766	5096	3780	4728	7260	7765	9977	9996	9854	10060	11732	11450	12612	9857	8666
29 1957 Regional Report Surplus Deficit	6002	6070	4101	4309	4180	4407	4372	3905	6441	9717	4954	12095	12416	5750	6284
30 1958 Regional Report Surplus Deficit	3834	2249	2842	2934	3042	2176	5845	6776	5032	5248	6053	10458	11095	5130	5321
31 1959 Regional Report Surplus Deficit	3350	2181	3039	3348	5945	6591	9197	9496	6219	9090	5733	7950	10987	10546	6944
32 1960 Regional Report Surplus Deficit	6252	6701	8762	9559	8859	5981	6031	6330	5455	11436	7450	6542	9831	6921	7505
33 1961 Regional Report Surplus Deficit	4801	2618	3250	3203	4914	2633	5520	7469	7394	8139	3315	8069	11151	5441	5688
34 1962 Regional Report Surplus Deficit	3712	2481	2840	2964	3260	2499	5150	5991	2518	6229	9655	7654	8711	5286	4809
35 1963 Regional Report Surplus Deficit	4303	3576	3295	4210	6229	5804	6049	7287	3043	3667	722	6056	10454	6401	5401
36 1964 Regional Report Surplus Deficit	3272	2770	4000	2906	4052	2555	3694	4310	2012	5584	2415	7801	13938	11581	5315
37 1965 Regional Report Surplus Deficit	6606	6474	5434	4828	5259	8031	11040	11683	9731	5842	10646	9626	10327	7671	8191
38 1966 Regional Report Surplus Deficit	6311	6202	3558	3847	4206	2966	4748	5101	3242	7070	3865	5684	8726	6499	5019
39 1967 Regional Report Surplus Deficit	3538	2321	3268	2834	3258	4199	7935	8558	6987	6184	1335	7546	12730	9881	6146
40 1968 Regional Report Surplus Deficit	4956	4827	3913	4047	4899	3243	6048	7885	7762	2403	-32.4	5292	10596	7424	5591
41 1969 Regional Report Surplus Deficit	5176	6189	6451	5461	7247	5013	9089	9386	7216	10521	10242	11009	10302	7664	7894
42 1970 Regional Report Surplus Deficit	3573	2285	3316	3523	3998	1816	5778	6996	3931	2820	277	7088	11525	5567	4818
43 1971 Regional Report Surplus Deficit	2586	2299	2785	3477	3101	2759	10030	11592	9911	10294	7932	11401	13735	11484	7635
44 1972 Regional Report Surplus Deficit	7306	7593	4451	4220	4766	3818	9168	10783	13522	13351	7188	10652	13919	11330	8687
45 1973 Regional Report Surplus Deficit	7547	8251	4977	4045	4492	3556	4767	5288	2533	1896	-1037	2222	5192	3198	4047
46 1974 Regional Report Surplus Deficit	1865	1047	3124	2841	3122	5213	12399	12535	11609	11650	10043	9857	14059	12878	8309
47 1975 Regional Report Surplus Deficit	7789	8240	4626	2873	3513	2499	5534	6216	6594	4277	2647	8594	12843	12227	6421
48 1976 Regional Report Surplus Deficit	5226	5761	4993	5714	7766	9681	9561	9937	8088	10900	7439	10999	10577	11022	8582
49 1977 Regional Report Surplus Deficit	8573	9716	9406	3782	3268	665	1517	1699	904	1561	-1309	1628	2849	1698	3057
50 1978 Regional Report Surplus Deficit	1450	1128	2133	1757	2697	3213	4263	4573	4678	10008	4721	8310	7459	7776	4623
51 1979 Regional Report Surplus Deficit	3921	3793	6301	3855	3994	1095	2611	2823	5096	2819	2498	7511	5969	2953	4060
52 1980 Regional Report Surplus Deficit	1229	1369	2938	2806	2821	636	3191	2337	2263	5720	6265	10156	10652	5724	4230
53 1981 Regional Report Surplus Deficit	1680	1791	3375	2759	4262	6388	7960	8621	3404	1576	1087	7470	11514	9207	5659
54 1982 Regional Report Surplus Deficit	6332	6333	3869	3312	4808	3342	6504	11575	11794	10074	4810	9780	12223	12527	7779

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2024**

**2019 White Book** Report Date: 2/5/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	6543	7421	6048	5117	5072	4467	8052	9220	9881	8086	4149	8292	10087	10874	7516
56 1984 Regional Report Surplus Deficit	6591	7014	4679	3744	8302	4825	7786	7638	8184	6773	7588	7732	12356	9997	7427
57 1985 Regional Report Surplus Deficit	5588	4012	4750	3851	5440	2854	3540	4120	3300	6865	5909	7270	6047	3340	4631
58 1986 Regional Report Surplus Deficit	825	851	3210	4301	6273	3101	6021	8872	11093	10321	7605	6821	9498	4630	6110
59 1987 Regional Report Surplus Deficit	2663	1922	2969	3279	4229	2870	2579	2391	4603	3386	2759	7281	5604	2276	3622
60 1988 Regional Report Surplus Deficit	1007	951	3261	2547	2091	-431	-180	785	1505	2080	1781	2312	5612	4409	2063
61 1989 Regional Report Surplus Deficit	1668	1439	2631	3201	3252	1804	933	-321	4315	5916	9309	7071	6349	4152	3551
62 1990 Regional Report Surplus Deficit	1667	1744	3024	2914	4562	4383	5518	7276	5932	6438	7673	7074	9924	7057	5519
63 1991 Regional Report Surplus Deficit	4519	4620	3079	3212	8165	4898	7549	7950	6335	7470	4404	7133	9790	10425	6578
64 1992 Regional Report Surplus Deficit	6513	5473	3123	2471	3530	270	1988	2376	2678	1862	342	5241	4075	1703	2880
65 1993 Regional Report Surplus Deficit	961	1012	2755	2570	2600	283	57.3	-463	3023	3533	40.7	8320	7866	5124	2918
66 1994 Regional Report Surplus Deficit	2614	2370	2987	3100	2895	791	412	1744	1768	2218	3307	4498	5137	3778	2694
67 1995 Regional Report Surplus Deficit	1447	1216	2640	3099	2155	1286	3000	5489	6632	4442	140	7038	10650	6819	4362
68 1996 Regional Report Surplus Deficit	3577	2439	3766	4866	9601	11773	11780	13066	12343	10752	10998	9708	11016	10215	9318
69 1997 Regional Report Surplus Deficit	6056	5870	4002	3406	4932	5078	11651	12464	12413	11399	11250	11962	13097	11523	8972
70 1998 Regional Report Surplus Deficit	6529	7832	6419	8660	6934	3363	4636	7278	5000	3779	1443	10151	11908	7296	6784
71 1999 Regional Report Surplus Deficit	4911	5215	3154	3584	2896	4896	9118	9693	10187	7610	6974	8257	12320	11774	7350
72 2000 Regional Report Surplus Deficit	8488	8941	4192	3434	8520	6031	5428	6010	5737	9391	9288	7531	5903	6311	6426
73 2001 Regional Report Surplus Deficit	3963	2063	2842	2926	2684	161	809	866	1187	1844	-1140	1849	2898	2259	1819
74 2002 Regional Report Surplus Deficit	1494	1014	2035	1463	2203	1811	1284	2096	2501	5167	6848	6273	10914	9329	3925
75 2003 Regional Report Surplus Deficit	3123	2612	2970	2716	3155	335	1195	3096	5584	4331	2923	3834	9500	3731	3539
76 2004 Regional Report Surplus Deficit	367	892	2559	2803	3663	2436	1844	1297	2719	3863	2442	4557	7417	4187	3104
77 2005 Regional Report Surplus Deficit	1071	2297	4609	3701	4098	3433	4058	5193	2676	1508	119	4594	6885	4676	3860
78 2006 Regional Report Surplus Deficit	1812	1582	3026	2757	3478	2562	7161	7711	5551	10582	8766	9912	11029	5500	5817
79 2007 Regional Report Surplus Deficit	2110	1402	2552	2527	4638	3034	5316	4682	8406	7366	3072	7504	8258	5848	4977
80 2008 Regional Report Surplus Deficit	1624	926	2092	2730	3211	1443	1854	2471	3065	3426	575	7988	13009	8977	4175

**Ranked Averages**

81 <b>Bottom 10 pct</b>	<b>2268</b>	<b>2035</b>	<b>2883</b>	<b>3047</b>	<b>2703</b>	<b>271</b>	<b>67.6</b>	<b>1004</b>	<b>1408</b>	<b>2042</b>	<b>-116</b>	<b>1926</b>	<b>4991</b>	<b>3088</b>	<b>2038</b>
82 <b>Middle 80 pct</b>	<b>3822</b>	<b>3596</b>	<b>3704</b>	<b>3576</b>	<b>4329</b>	<b>3061</b>	<b>4802</b>	<b>5591</b>	<b>5234</b>	<b>6102</b>	<b>4599</b>	<b>7553</b>	<b>9660</b>	<b>7061</b>	<b>5296</b>
83 <b>Top 10 pct</b>	<b>5595</b>	<b>5156</b>	<b>4246</b>	<b>4525</b>	<b>6363</b>	<b>7464</b>	<b>10740</b>	<b>11548</b>	<b>10931</b>	<b>10653</b>	<b>9701</b>	<b>10465</b>	<b>11858</b>	<b>10593</b>	<b>8679</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2025**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	3338	3519	3033	3073	3307	286	-142	725	1223	501	-553	1128	7409	2164	2132
2 1930 Regional Report Surplus Deficit	1440	1524	2738	3036	2443	-214	-789	1098	1180	1522	-355	1387	3401	3704	1669
3 1931 Regional Report Surplus Deficit	1556	1605	2592	2905	2622	-1.41	-545	430	1405	968	-1037	1421	2818	3039	1523
4 1932 Regional Report Surplus Deficit	1724	1260	2574	2578	2210	46.7	682	-1336	4641	6084	7857	8500	9426	6515	3714
5 1933 Regional Report Surplus Deficit	3536	3306	3325	2762	3558	3603	5464	5464	5115	4369	1793	6013	12213	11062	5421
6 1934 Regional Report Surplus Deficit	6903	6324	4067	4847	8435	10028	10792	10138	8937	9901	7330	6819	6976	2806	7404
7 1935 Regional Report Surplus Deficit	1248	1827	2109	2690	3006	1889	5267	5501	4890	1971	2507	5484	6052	6800	3950
8 1936 Regional Report Surplus Deficit	5251	2435	2636	2500	2646	20.8	-196	-141	1634	1648	5453	8897	8898	5092	3294
9 1937 Regional Report Surplus Deficit	1360	1588	2077	3134	2493	34.1	-1159	-726	675	1064	-965	1049	6010	3652	1571
10 1938 Regional Report Surplus Deficit	1961	1418	2883	2685	3516	2456	4238	4823	5890	6680	8495	8566	7473	7043	4899
11 1939 Regional Report Surplus Deficit	1979	1810	2961	2683	2760	359	2700	2939	2924	3076	4276	5001	4967	4073	3073
12 1940 Regional Report Surplus Deficit	1083	1451	2343	2900	3041	2408	2733	2338	5533	4515	1825	5255	4546	1614	3100
13 1941 Regional Report Surplus Deficit	499	941	2312	2861	2738	1308	954	1189	2276	910	-1481	1114	4023	2816	1837
14 1942 Regional Report Surplus Deficit	1477	1421	2774	2793	3092	4467	3631	4056	1275	1095	1639	2785	9177	7948	3728
15 1943 Regional Report Surplus Deficit	3412	3728	3840	2705	3097	1805	5995	5897	6417	12111	9941	6770	11469	11231	6141
16 1944 Regional Report Surplus Deficit	4388	3540	3345	3325	2624	436	991	1083	811	890	-1571	69.3	3164	2125	1800
17 1945 Regional Report Surplus Deficit	1461	1163	2208	2568	2034	-34.2	480	620	1165	585	-862	4302	8992	3131	2221
18 1946 Regional Report Surplus Deficit	1748	1663	2708	3306	3120	2627	4367	4460	5112	8721	9216	8869	8163	8649	5170
19 1947 Regional Report Surplus Deficit	4809	4350	3578	2830	4735	7350	7494	7923	7378	6773	4823	7541	8530	7493	6261
20 1948 Regional Report Surplus Deficit	3116	2958	3436	7950	7026	4464	7346	6701	4669	5209	6615	10719	12564	8704	6875
21 1949 Regional Report Surplus Deficit	7098	6800	4437	3575	4150	2035	3203	4103	7088	6920	7646	9143	8139	3774	5325
22 1950 Regional Report Surplus Deficit	1367	1230	2534	2983	3361	2820	7428	8087	8460	9435	6453	7193	11891	12541	6363
23 1951 Regional Report Surplus Deficit	7257	6744	4266	5500	8089	8253	10243	11491	9674	10082	7477	8615	8429	9963	8343
24 1952 Regional Report Surplus Deficit	5460	3475	3923	7051	5862	4849	6884	7234	5011	8780	10318	10668	9137	7257	6815
25 1953 Regional Report Surplus Deficit	3490	3062	2352	3334	2334	-24.8	2718	9032	3841	1112	764	6539	12259	10319	4710
26 1954 Regional Report Surplus Deficit	4215	4181	3684	3410	4735	4015	6791	8269	6498	6107	3930	7994	10136	12084	6393
27 1955 Regional Report Surplus Deficit	8163	8995	7083	3751	5973	3526	2161	3100	604	2025	-586	4237	11826	11982	5303
28 1956 Regional Report Surplus Deficit	6666	4977	3635	4633	7157	7667	9877	9566	9617	8910	10937	10627	12009	9789	8350
29 1957 Regional Report Surplus Deficit	5903	5889	3954	4214	4076	4309	4272	3474	6214	8547	4141	11408	11705	5632	5972
30 1958 Regional Report Surplus Deficit	3736	2156	2701	2839	2938	2078	5745	6345	4843	4142	5302	9624	10228	4994	4985
31 1959 Regional Report Surplus Deficit	3252	2088	2897	3254	5841	6493	9096	9066	5988	7905	4904	7054	10322	10457	6610
32 1960 Regional Report Surplus Deficit	6152	6488	8443	9464	8756	5883	5931	5899	5249	10291	6662	5670	8999	6730	7146
33 1961 Regional Report Surplus Deficit	4703	2526	3103	3109	4810	2535	5420	7038	7194	6990	2523	7199	10333	5327	5349
34 1962 Regional Report Surplus Deficit	3614	2389	2697	2869	3157	2401	5050	5560	2339	5082	8865	6802	7855	5177	4472
35 1963 Regional Report Surplus Deficit	4205	3484	3150	4115	6126	5706	5949	6856	2869	2553	-9.87	5180	9560	6268	5060
36 1964 Regional Report Surplus Deficit	3174	2678	3855	2811	3948	2457	3594	3879	1842	4479	1668	6893	13181	11450	4990
37 1965 Regional Report Surplus Deficit	6506	6271	5273	4733	5156	7933	10939	11252	9505	4657	9817	8821	9594	7548	7848
38 1966 Regional Report Surplus Deficit	6210	6008	3403	3752	4102	2868	4647	4670	3059	5915	3066	4798	7796	6353	4667
39 1967 Regional Report Surplus Deficit	3440	2229	3122	2739	3155	4101	7835	8128	6741	5055	660	6595	11747	9640	5776
40 1968 Regional Report Surplus Deficit	4858	4718	3770	3953	4796	3145	5947	7454	7530	1324	-764	4491	9886	7315	5268
41 1969 Regional Report Surplus Deficit	5078	6008	6226	5366	7144	4915	8988	8955	6968	9297	9375	10171	9609	7489	7543
42 1970 Regional Report Surplus Deficit	3475	2193	3170	3428	3895	1718	5678	6566	3752	1726	-454	6278	10856	5479	4504
43 1971 Regional Report Surplus Deficit	2487	2207	2640	3383	2997	2661	9930	11161	9604	9072	7067	10637	13009	11276	7284
44 1972 Regional Report Surplus Deficit	7204	7341	4303	4125	4663	3720	9067	10353	13206	12149	6342	9746	13058	11169	8315
45 1973 Regional Report Surplus Deficit	7444	7973	4828	3950	4388	3458	4667	4857	2352	811	-1769	1392	4399	3102	3715
46 1974 Regional Report Surplus Deficit	1767	955	2980	2746	3019	5115	12298	12105	11407	10478	9229	9041	13337	12803	7977
47 1975 Regional Report Surplus Deficit	7688	7962	4478	2778	3410	2401	5433	5785	6373	3157	1883	7752	12094	12066	6084
48 1976 Regional Report Surplus Deficit	5123	5619	4838	5619	7663	9583	9460	9506	7886	9797	6693	10217	9809	10858	8252
49 1977 Regional Report Surplus Deficit	8470	9433	9090	3687	3165	566	1417	1269	741	477	-2040	786	2112	1618	2724
50 1978 Regional Report Surplus Deficit	1352	1036	1992	1662	2593	3115	4163	4143	4487	8835	3905	7477	6669	7620	4290
51 1979 Regional Report Surplus Deficit	3951	3833	6086	3761	3890	997	2511	2392	4911	1709	1745	6683	5222	2863	3750
52 1980 Regional Report Surplus Deficit	1131	1277	2795	2711	2717	538	3091	1906	2100	4625	5525	9262	9848	5628	3910
53 1981 Regional Report Surplus Deficit	1582	1699	3225	2664	4159	6290	7860	8190	3214	495	363	6612	10636	9003	5311
54 1982 Regional Report Surplus Deficit	6234	6118	3723	3217	4705	3244	6404	11144	11549	8968	4060	8894	11530	12424	7438

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2025**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	6441	7149	5835	5022	4969	4369	7951	8789	9644	6949	3368	7411	9323	10683	7159
56 1984 Regional Report Surplus Deficit	6490	6766	4530	3649	8199	4727	7685	7207	7909	5573	6744	6816	11599	9840	7072
57 1985 Regional Report Surplus Deficit	5490	3919	4603	3756	5336	2756	3440	3689	3117	5731	5132	6404	5313	3250	4311
58 1986 Regional Report Surplus Deficit	727	759	3057	4207	6169	3003	5921	8441	10878	9184	6825	5981	8821	4535	5784
59 1987 Regional Report Surplus Deficit	2565	1830	2823	3184	4126	2772	2479	1960	4395	2279	2007	6318	4791	2192	3289
60 1988 Regional Report Surplus Deficit	909	859	3119	2453	1988	-529	-280	355	1340	1009	1054	1479	4862	4325	1753
61 1989 Regional Report Surplus Deficit	1570	1346	2490	3106	3148	1706	833	-752	4131	4764	8515	6151	5541	4062	3228
62 1990 Regional Report Surplus Deficit	1569	1651	2875	2819	4459	4285	5418	6845	5696	5243	6835	6179	9049	6836	5157
63 1991 Regional Report Surplus Deficit	4421	4528	2934	3117	8061	4800	7449	7519	6092	6286	3576	6258	8913	10156	6215
64 1992 Regional Report Surplus Deficit	6414	5333	2978	2376	3426	172	1887	1945	2503	782	-389	4359	3336	1621	2561
65 1993 Regional Report Surplus Deficit	864	919	2614	2475	2497	185	-43.0	-894	2848	2432	-691	7410	7064	5005	2598
66 1994 Regional Report Surplus Deficit	2511	2278	2835	3005	2791	693	312	1313	1596	1133	2578	3626	4388	3683	2376
67 1995 Regional Report Surplus Deficit	1349	1124	2499	3005	2052	1188	2900	5058	6411	3344	-592	6106	9708	6678	4010
68 1996 Regional Report Surplus Deficit	3479	2346	3620	4771	9498	11674	11680	12635	12124	9607	10208	8974	10094	10072	8973
69 1997 Regional Report Surplus Deficit	5957	5685	3854	3311	4828	4980	11551	12033	12168	10127	10334	11035	12456	11239	8605
70 1998 Regional Report Surplus Deficit	6427	7554	6211	8565	6830	3265	4536	6847	4804	2670	711	9316	10958	7135	6427
71 1999 Regional Report Surplus Deficit	4813	5080	3011	3489	2792	4798	9018	9262	9881	6461	6180	7332	11493	11610	6989
72 2000 Regional Report Surplus Deficit	8388	8663	4048	3339	8417	5933	5328	5579	5520	8240	8495	6647	5113	6172	6083
73 2001 Regional Report Surplus Deficit	3865	1971	2699	2832	2581	62.7	709	435	1029	759	-1871	991	2161	2171	1507
74 2002 Regional Report Surplus Deficit	1397	922	1895	1369	2100	1713	1183	1665	2322	3982	6019	5339	9974	9093	3570
75 2003 Regional Report Surplus Deficit	3025	2520	2826	2621	3051	237	1095	2665	5367	3221	2170	2979	8717	3631	3213
76 2004 Regional Report Surplus Deficit	269	800	2418	2708	3560	2337	1743	866	2541	2769	1704	3668	6524	4095	2776
77 2005 Regional Report Surplus Deficit	974	2205	4454	3607	3995	3335	3958	4762	2503	423	-613	3755	6103	4592	3538
78 2006 Regional Report Surplus Deficit	1714	1490	2880	2663	3375	2464	7061	7280	5340	9327	7867	9009	10281	5374	5470
79 2007 Regional Report Surplus Deficit	2062	1361	2411	2432	4535	2936	5216	4251	8154	6249	2310	6546	7353	5719	4630
80 2008 Regional Report Surplus Deficit	1526	834	1951	2635	3107	1345	1754	2040	2893	2323	-156	7156	12235	8794	3854

**Ranked Averages**

81 <b>Bottom 10 pct</b>	<b>2169</b>	<b>1943</b>	<b>2739</b>	<b>2952</b>	<b>2600</b>	<b>173</b>	<b>-32.7</b>	<b>573</b>	<b>1242</b>	<b>953</b>	<b>-848</b>	<b>1080</b>	<b>4231</b>	<b>2999</b>	<b>1724</b>
82 <b>Middle 80 pct</b>	<b>3729</b>	<b>3473</b>	<b>3547</b>	<b>3481</b>	<b>4226</b>	<b>2963</b>	<b>4702</b>	<b>5161</b>	<b>5024</b>	<b>4968</b>	<b>3824</b>	<b>6683</b>	<b>8860</b>	<b>6919</b>	<b>4958</b>
83 <b>Top 10 pct</b>	<b>5495</b>	<b>4992</b>	<b>4096</b>	<b>4430</b>	<b>6259</b>	<b>7366</b>	<b>10640</b>	<b>11118</b>	<b>10698</b>	<b>9476</b>	<b>8880</b>	<b>9635</b>	<b>11098</b>	<b>10430</b>	<b>8333</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2026**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	3167	3525	2987	2987	3187	-407	-959	-112	471	-27.0	-1436	1005	7295	1327	1699
2 1930 Regional Report Surplus Deficit	1269	1529	2691	2950	2323	-906	-1606	261	428	1009	-1239	1283	3311	2868	1240
3 1931 Regional Report Surplus Deficit	1385	1611	2546	2819	2502	-693	-1361	-408	645	449	-1921	1300	2677	2201	1088
4 1932 Regional Report Surplus Deficit	1553	1265	2527	2492	2090	-645	-134	-2173	3924	5662	7072	8429	9347	5735	3305
5 1933 Regional Report Surplus Deficit	3365	3311	3279	2676	3438	2911	4647	4626	4399	3891	952	5885	12010	10225	4987
6 1934 Regional Report Surplus Deficit	6732	6329	4021	4761	8315	9336	9975	9301	8279	9534	6600	6766	6935	1975	7005
7 1935 Regional Report Surplus Deficit	1077	1832	2062	2604	2886	1197	4451	4663	4182	1457	1631	5412	5948	6015	3531
8 1936 Regional Report Surplus Deficit	5080	2441	2590	2414	2526	-671	-1013	-978	884	1186	4628	8795	8888	4271	2878
9 1937 Regional Report Surplus Deficit	1189	1593	2031	3048	2373	-658	-1976	-1563	-82.6	558	-1849	967	5970	2838	1150
10 1938 Regional Report Surplus Deficit	1790	1424	2837	2599	3396	1764	3421	3986	5214	6249	7701	8455	7400	6311	4493
11 1939 Regional Report Surplus Deficit	1808	1816	2915	2597	2640	-333	1883	2102	2185	2590	3428	4912	4890	3255	2653
12 1940 Regional Report Surplus Deficit	912	1456	2297	2814	2920	1716	1916	1500	4818	4045	992	5188	4462	773	2682
13 1941 Regional Report Surplus Deficit	328	947	2266	2775	2618	615	138	352	1532	402	-2365	991	3906	1976	1406
14 1942 Regional Report Surplus Deficit	1306	1427	2728	2707	2972	3775	2814	3219	515	558	770	2680	9142	7215	3312
15 1943 Regional Report Surplus Deficit	3241	3734	3794	2619	2977	1113	5178	5060	5768	11673	9142	6703	11449	10591	5753
16 1944 Regional Report Surplus Deficit	4217	3546	3299	3239	2504	-256	174	246	53.4	364	-2455	-42.9	3055	1282	1368
17 1945 Regional Report Surplus Deficit	1290	1169	2162	2481	1914	-726	-336	-218	402	61.0	-1746	4222	9006	2295	1802
18 1946 Regional Report Surplus Deficit	1577	1668	2662	3220	3000	1935	3551	3623	4415	8277	8411	8748	8100	7852	4757
19 1947 Regional Report Surplus Deficit	4638	4356	3532	2744	4615	6658	6678	7086	6685	6270	3957	7496	8520	6732	5857
20 1948 Regional Report Surplus Deficit	2945	2964	3389	7864	6906	3772	6529	5863	4000	4785	5828	10686	12537	8038	6487
21 1949 Regional Report Surplus Deficit	6927	6806	4391	3489	4030	1343	2387	3266	6399	6435	6800	8985	8058	2946	4902
22 1950 Regional Report Surplus Deficit	1196	1235	2488	2897	3240	2128	6611	7249	7775	8999	5656	7160	11768	11821	5960
23 1951 Regional Report Surplus Deficit	7086	6749	4220	5414	7969	7561	9427	10653	8969	9664	6696	8511	8392	9321	7947
24 1952 Regional Report Surplus Deficit	5289	3481	3877	6965	5742	4157	6067	6397	4314	8292	9468	10528	9088	6440	6396
25 1953 Regional Report Surplus Deficit	3319	3068	2306	3248	2214	-717	1901	8195	3111	570	-141	6442	12183	9604	4294
26 1954 Regional Report Surplus Deficit	4044	4186	3638	3324	4615	3323	5975	7431	5816	5647	3108	7906	10043	11398	5989
27 1955 Regional Report Surplus Deficit	7992	9000	7037	3665	5853	2834	1344	2263	-153	1518	-1470	4175	11707	11221	4882
28 1956 Regional Report Surplus Deficit	6495	4982	3588	4547	7037	6975	9061	8728	8933	8451	10116	10492	11745	8933	7913
29 1957 Regional Report Surplus Deficit	5732	5895	3908	4128	3956	3617	3456	2637	5520	8107	3338	11137	11549	4826	5538
30 1958 Regional Report Surplus Deficit	3565	2162	2654	2753	2818	1386	4928	5508	4111	3639	4438	9500	10228	4206	4569
31 1959 Regional Report Surplus Deficit	3081	2094	2850	3167	5721	5801	8280	8228	5299	7480	4117	6992	10120	9622	6189
32 1960 Regional Report Surplus Deficit	5981	6493	8397	9378	8636	5191	5114	5062	4534	9826	5835	5584	8964	5997	6740
33 1961 Regional Report Surplus Deficit	4532	2531	3057	3022	4690	1843	4603	6201	6473	6530	1700	7111	10284	4517	4934
34 1962 Regional Report Surplus Deficit	3443	2395	2651	2783	3037	1709	4233	4723	1597	4620	8039	6697	7844	4362	4057
35 1963 Regional Report Surplus Deficit	4034	3490	3104	4029	6006	5014	5132	6019	2123	2057	-894	5098	9587	5476	4648
36 1964 Regional Report Surplus Deficit	3003	2683	3808	2725	3828	1765	2777	3042	1091	3975	800	6844	13071	10657	4569
37 1965 Regional Report Surplus Deficit	6335	6277	5227	4647	5035	7241	10123	10415	8811	4233	9031	8668	9460	6747	7427
38 1966 Regional Report Surplus Deficit	6039	6013	3357	3666	3982	2176	3831	3833	2322	5461	2250	4726	7859	5575	4266
39 1967 Regional Report Surplus Deficit	3269	2234	3076	2653	3035	3409	7018	7290	6066	4575	-280	6588	11863	8957	5391
40 1968 Regional Report Surplus Deficit	4687	4724	3723	3867	4675	2453	5131	6617	6841	793	-1648	4334	9730	6500	4836
41 1969 Regional Report Surplus Deficit	4907	6014	6180	5280	7023	4223	8172	8117	6295	8912	8627	10051	9435	6739	7131
42 1970 Regional Report Surplus Deficit	3304	2198	3123	3342	3775	1026	4861	5728	3010	1210	-1338	6130	10658	4642	4064
43 1971 Regional Report Surplus Deficit	2316	2213	2594	3297	2877	1969	9113	10324	8991	8684	6317	10443	12868	10559	6876
44 1972 Regional Report Surplus Deficit	7033	7347	4256	4039	4543	3028	8251	9515	12601	11741	5573	9694	13052	10406	7926
45 1973 Regional Report Surplus Deficit	7273	7978	4782	3864	4268	2766	3850	4020	1613	286	-2652	1264	4325	2274	3287
46 1974 Regional Report Surplus Deficit	1596	961	2934	2660	2899	4423	11482	11267	10688	10040	8428	8899	13192	11954	7549
47 1975 Regional Report Surplus Deficit	7517	7968	4432	2692	3290	1709	4617	4947	5673	2667	1031	7636	11976	11303	5665
48 1976 Regional Report Surplus Deficit	4952	5625	4792	5533	7543	8891	8644	8669	7167	9290	5824	10041	9710	10097	7827
49 1977 Regional Report Surplus Deficit	8299	9439	9044	3601	3045	-126	600	431	-16.4	-47.9	-2924	670	1982	774	2290
50 1978 Regional Report Surplus Deficit	1181	1042	1946	1576	2473	2423	3347	3305	3758	8399	3106	7352	6592	6852	3875
51 1979 Regional Report Surplus Deficit	3780	3839	6039	3675	3770	305	1694	1555	4175	1210	883	6553	5102	2029	3320
52 1980 Regional Report Surplus Deficit	960	1283	2749	2625	2597	-154	2274	1069	1343	4111	4649	9198	9786	4799	3487
53 1981 Regional Report Surplus Deficit	1411	1705	3179	2578	4039	5597	7043	7353	2483	-33.6	-529	6512	10647	8282	4902
54 1982 Regional Report Surplus Deficit	6063	6123	3677	3131	4585	2552	5587	10307	10873	8465	3194	8822	11356	11603	7015

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2026**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	6270	7155	5789	4936	4849	3677	7135	7952	8960	6477	2533	7334	9220	9950	6750
56 1984 Regional Report Surplus Deficit	6319	6771	4484	3563	8079	4035	6869	6370	7263	5164	5972	6774	11489	9073	6671
57 1985 Regional Report Surplus Deficit	5319	3925	4557	3670	5216	2064	2623	2851	2379	5255	4293	6312	5180	2416	3884
58 1986 Regional Report Surplus Deficit	556	765	3011	4121	6049	2310	5105	7604	10173	8711	5990	5863	8631	3706	5354
59 1987 Regional Report Surplus Deficit	2394	1836	2777	3098	4006	2080	1662	1123	3683	1777	1143	6323	4737	1351	2877
60 1988 Regional Report Surplus Deficit	738	864	3072	2367	1868	-1221	-1097	-483	584	470	165	1354	4745	3485	1318
61 1989 Regional Report Surplus Deficit	1399	1352	2444	3020	3028	1014	16.3	-1589	3394	4306	7694	6113	5482	3228	2814
62 1990 Regional Report Surplus Deficit	1398	1657	2829	2733	4339	3592	4602	6007	5012	4829	6058	6116	9057	6133	4766
63 1991 Regional Report Surplus Deficit	4250	4534	2888	3031	7941	4108	6632	6682	5415	5860	2788	6175	8923	9501	5826
64 1992 Regional Report Surplus Deficit	6243	5339	2932	2290	3306	-520	1071	1108	1757	253	-1273	4283	3208	779	2131
65 1993 Regional Report Surplus Deficit	693	925	2567	2389	2376	-507	-859	-1731	2102	1924	-1575	7362	6999	4200	2180
66 1994 Regional Report Surplus Deficit	2340	2284	2789	2919	2671	0.73	-504	476	848	609	1692	3540	4270	2853	1947
67 1995 Regional Report Surplus Deficit	1178	1129	2453	2919	1931	496	2083	4220	5711	2833	-1475	6080	9783	5895	3611
68 1996 Regional Report Surplus Deficit	3308	2352	3573	4685	9377	10982	10863	11798	11423	9143	9382	8750	10149	9290	8559
69 1997 Regional Report Surplus Deficit	5786	5691	3808	3225	4708	4288	10734	11196	11492	9789	9635	11004	12230	10599	8209
70 1998 Regional Report Surplus Deficit	6256	7559	6164	8479	6710	2573	3719	6009	4079	2169	-173	9194	11041	6371	6020
71 1999 Regional Report Surplus Deficit	4642	5086	2964	3403	2672	4106	8201	8425	9266	6001	5358	7300	11453	10850	6593
72 2000 Regional Report Surplus Deficit	8217	8669	4002	3253	8297	5241	4511	4742	4816	7781	7673	6573	5037	5387	5671
73 2001 Regional Report Surplus Deficit	3694	1977	2653	2745	2461	-629	-108	-403	267	235	-2755	892	2031	1334	1074
74 2002 Regional Report Surplus Deficit	1225	927	1848	1283	1980	1021	367	827	1581	3557	5232	5315	10047	8405	3182
75 2003 Regional Report Surplus Deficit	2854	2526	2780	2535	2931	-455	278	1828	4663	2722	1308	2876	8634	2807	2792
76 2004 Regional Report Surplus Deficit	97.8	805	2372	2622	3440	1645	927	28.7	1798	2254	827	3599	6550	3263	2361
77 2005 Regional Report Surplus Deficit	803	2211	4408	3521	3875	2643	3142	3925	1755	-101	-1497	3636	6018	3751	3108
78 2006 Regional Report Surplus Deficit	1543	1496	2834	2577	3255	1772	6244	6443	4630	8973	7151	8954	10162	4576	5063
79 2007 Regional Report Surplus Deficit	1891	1367	2365	2346	4415	2244	4399	3414	7486	5757	1456	6547	7391	4924	4234
80 2008 Regional Report Surplus Deficit	1355	840	1905	2549	2987	653	937	1203	2145	1816	-1040	7030	12142	8053	3432

**Ranked Averages**

81 <b>Bottom 10 pct</b>	<b>1998</b>	<b>1949</b>	<b>2693</b>	<b>2866</b>	<b>2479</b>	<b>-519</b>	<b>-849</b>	<b>-264</b>	<b>487</b>	<b>433</b>	<b>-1732</b>	<b>969</b>	<b>4124</b>	<b>2164</b>	<b>1293</b>
82 <b>Middle 80 pct</b>	<b>3558</b>	<b>3479</b>	<b>3500</b>	<b>3395</b>	<b>4106</b>	<b>2271</b>	<b>3885</b>	<b>4323</b>	<b>4313</b>	<b>4493</b>	<b>2984</b>	<b>6596</b>	<b>8793</b>	<b>6136</b>	<b>4544</b>
83 <b>Top 10 pct</b>	<b>5324</b>	<b>4998</b>	<b>4050</b>	<b>4344</b>	<b>6139</b>	<b>6674</b>	<b>9823</b>	<b>10280</b>	<b>10011</b>	<b>9044</b>	<b>8086</b>	<b>9507</b>	<b>10991</b>	<b>9668</b>	<b>7920</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2027**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	2355	2714	2180	2181	2414	-610	-1041	-196	261	663	-746	848	6523	1277	1359
2 1930 Regional Report Surplus Deficit	458	718	1884	2144	1550	-1109	-1688	177	219	1684	-549	1107	2515	2816	896
3 1931 Regional Report Surplus Deficit	574	800	1739	2013	1729	-897	-1443	-492	443	1130	-1231	1141	1932	2151	750
4 1932 Regional Report Surplus Deficit	742	455	1720	1686	1317	-849	-216	-2257	3679	6246	7663	8220	8540	5628	2941
5 1933 Regional Report Surplus Deficit	2553	2500	2471	1870	2664	2707	4565	4542	4153	4531	1599	5733	11327	10174	4648
6 1934 Regional Report Surplus Deficit	5921	5518	3214	3955	7542	9132	9893	9217	7975	10064	7136	6539	6090	1918	6631
7 1935 Regional Report Surplus Deficit	265	1021	1255	1797	2113	994	4369	4579	3929	2134	2313	5204	5166	5913	3177
8 1936 Regional Report Surplus Deficit	4269	1630	1783	1608	1753	-875	-1095	-1062	672	1811	5259	8617	8012	4204	2520
9 1937 Regional Report Surplus Deficit	377	783	1223	2242	1600	-862	-2057	-1647	-287	1226	-1159	768	5124	2764	798
10 1938 Regional Report Surplus Deficit	979	613	2029	1792	2623	1561	3339	3902	4928	6842	8301	8286	6587	6156	4126
11 1939 Regional Report Surplus Deficit	997	1005	2107	1791	1867	-536	1801	2018	1962	3239	4082	4721	4081	3185	2300
12 1940 Regional Report Surplus Deficit	101	645	1489	2008	2147	1512	1834	1416	4571	4678	1631	4975	3660	726	2327
13 1941 Regional Report Surplus Deficit	-483	136	1458	1968	1845	412	55.9	268	1314	1073	-1675	834	3137	1928	1064
14 1942 Regional Report Surplus Deficit	495	616	1920	1900	2199	3571	2732	3135	313	1258	1445	2504	8291	7060	2955
15 1943 Regional Report Surplus Deficit	2430	2923	2986	1813	2204	910	5096	4976	5456	12273	9747	6490	10583	10343	5368
16 1944 Regional Report Surplus Deficit	3406	2735	2491	2432	1730	-460	92.2	162	-151	1052	-1765	-211	2278	1237	1027
17 1945 Regional Report Surplus Deficit	479	358	1355	1675	1140	-930	-418	-302	203	748	-1056	4022	8106	2243	1448
18 1946 Regional Report Surplus Deficit	766	857	1854	2413	2227	1732	3469	3539	4150	8883	9022	8589	7277	7761	4397
19 1947 Regional Report Surplus Deficit	3827	3545	2724	1938	3841	6454	6596	7002	6416	6936	4629	7261	7644	6606	5488
20 1948 Regional Report Surplus Deficit	2134	2153	2582	7058	6132	3568	6447	5779	3708	5372	6421	10439	11678	7816	6102
21 1949 Regional Report Surplus Deficit	6116	5995	3583	2683	3257	1139	2305	3182	6126	7082	7452	8863	7253	2886	4552
22 1950 Regional Report Surplus Deficit	385	424	1680	2091	2467	1924	6529	7165	7498	9597	6259	6913	11005	11653	5590
23 1951 Regional Report Surplus Deficit	6274	5939	3412	4607	7196	7358	9345	10569	8712	10244	7283	8335	7543	9075	7569
24 1952 Regional Report Surplus Deficit	4478	2670	3069	6159	4969	3954	5985	6313	4049	8942	10125	10388	8251	6369	6042
25 1953 Regional Report Surplus Deficit	2507	2257	1499	2442	1441	-921	1819	8111	2879	1275	570	6259	11373	9431	3937
26 1954 Regional Report Surplus Deficit	3233	3375	2831	2518	3842	3119	5893	7347	5536	6270	3736	7714	9250	11197	5620
27 1955 Regional Report Surplus Deficit	7181	8190	6229	2859	5080	2630	1262	2179	-358	2187	-780	3957	10940	11094	4530
28 1956 Regional Report Surplus Deficit	5684	4172	2781	3741	6264	6772	8979	8644	8656	9072	10743	10347	11123	8901	7576
29 1957 Regional Report Surplus Deficit	4921	5084	3100	3322	3183	3413	3374	2553	5252	8709	3947	11128	10819	4744	5199
30 1958 Regional Report Surplus Deficit	2753	1351	1847	1947	2045	1182	4846	5424	3881	4304	5108	9343	9342	4106	4212
31 1959 Regional Report Surplus Deficit	2270	1283	2043	2361	4948	5598	8198	8144	5026	8067	4710	6774	9436	9569	5837
32 1960 Regional Report Surplus Deficit	5170	5683	7589	8572	7863	4987	5032	4977	4287	10453	6469	5389	8113	5842	6373
33 1961 Regional Report Surplus Deficit	3721	1721	2249	2216	3917	1639	4522	6117	6233	7152	2329	6918	9447	4439	4576
34 1962 Regional Report Surplus Deficit	2632	1584	1843	1976	2264	1505	4151	4639	1377	5245	8671	6522	6969	4290	3699
35 1963 Regional Report Surplus Deficit	3223	2679	2297	3223	5233	4810	5050	5935	1907	2715	-204	4900	8674	5381	4287
36 1964 Regional Report Surplus Deficit	2192	1873	3001	1919	3055	1562	2695	2958	881	4642	1474	6613	12295	10562	4217
37 1965 Regional Report Surplus Deficit	5524	5466	4420	3841	4262	7037	10041	10331	8543	4819	9623	8541	8708	6661	7075
38 1966 Regional Report Surplus Deficit	5228	5203	2549	2860	3209	1972	3749	3749	2098	6077	2872	4518	6910	5465	3894
39 1967 Regional Report Surplus Deficit	2458	1423	2269	1847	2262	3205	6936	7206	5779	5217	466	6315	10861	8752	5003
40 1968 Regional Report Surplus Deficit	3876	3913	2916	3060	3902	2249	5049	6533	6568	1486	-958	4211	9000	6427	4495
41 1969 Regional Report Surplus Deficit	4096	5203	5372	4474	6250	4019	8090	8033	6006	9459	9181	9890	8723	6601	6770
42 1970 Regional Report Surplus Deficit	2493	1387	2316	2536	3002	823	4779	5644	2791	1889	-648	5998	9970	4591	3731
43 1971 Regional Report Surplus Deficit	1505	1402	1786	2490	2104	1765	9031	10239	8642	9235	6873	10357	12123	10388	6511
44 1972 Regional Report Surplus Deficit	6222	6536	3449	3233	3770	2824	8169	9431	12244	12311	6148	9466	12172	10281	7542
45 1973 Regional Report Surplus Deficit	6462	7167	3974	3058	3495	2562	3768	3936	1390	974	-1962	1112	3513	2214	2942
46 1974 Regional Report Surplus Deficit	785	150	2127	1854	2126	4219	11400	11183	10445	10640	9035	8761	12450	11915	7204
47 1975 Regional Report Surplus Deficit	6706	7157	3624	1886	2517	1505	4535	4863	5411	3320	1690	7472	11208	11178	5310
48 1976 Regional Report Surplus Deficit	4141	4814	3984	4727	6770	8688	8562	8585	6924	9959	6499	9937	8923	9971	7479
49 1977 Regional Report Surplus Deficit	7488	8628	8236	2795	2272	-329	518	347	-221	640	-2234	506	1226	730	1951
50 1978 Regional Report Surplus Deficit	370	231	1138	770	1700	2219	3265	3221	3526	8998	3711	7197	5783	6732	3517
51 1979 Regional Report Surplus Deficit	2969	3028	5232	2868	2997	101	1612	1471	3949	1872	1551	6403	4336	1975	2977
52 1980 Regional Report Surplus Deficit	148	472	1941	1819	1824	-357	2192	985	1138	4788	5331	8982	8962	4741	3137
53 1981 Regional Report Surplus Deficit	600	894	2372	1772	3266	5394	6961	7269	2252	657	169	6332	9750	8115	4538
54 1982 Regional Report Surplus Deficit	5252	5313	2869	2325	3812	2349	5505	10223	10587	9131	3866	8614	10644	11536	6665



**Regional Report Surplus Deficit By Water Year**

**Operating Year 2027**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	5459	6344	4981	4130	4076	3473	7053	7868	8682	7111	3174	7131	8437	9795	6386
56 1984 Regional Report Surplus Deficit	5507	5961	3677	2757	7306	3831	6787	6285	6947	5735	6550	6536	10713	8952	6299
57 1985 Regional Report Surplus Deficit	4508	3114	3749	2863	4443	1860	2541	2767	2156	5893	4938	6124	4427	2363	3537
58 1986 Regional Report Surplus Deficit	-255	-46.1	2204	3314	5276	2107	5023	7520	9916	9346	6631	5700	7935	3647	5010
59 1987 Regional Report Surplus Deficit	1582	1025	1970	2292	3233	1876	1580	1039	3433	2441	1813	6037	3905	1304	2516
60 1988 Regional Report Surplus Deficit	-73.4	53.7	2265	1560	1095	-1425	-1179	-567	378	1172	860	1199	3976	3437	980
61 1989 Regional Report Surplus Deficit	588	541	1636	2214	2255	811	-65.7	-1673	3170	4926	8321	5870	4655	3174	2455
62 1990 Regional Report Surplus Deficit	587	846	2021	1927	3565	3389	4520	5923	4734	5405	6641	5899	8163	5948	4384
63 1991 Regional Report Surplus Deficit	3439	3723	2080	2225	7168	3904	6550	6598	5130	6448	3382	5978	8027	9269	5442
64 1992 Regional Report Surplus Deficit	5432	4528	2125	1484	2533	-723	989	1024	1541	944	-583	4079	2450	734	1788
65 1993 Regional Report Surplus Deficit	-119	114	1760	1583	1603	-711	-941	-1815	1886	2595	-885	7130	6178	4117	1825
66 1994 Regional Report Surplus Deficit	1529	1473	1981	2113	1898	-203	-586	392	634	1295	2384	3346	3502	2796	1603
67 1995 Regional Report Surplus Deficit	367	319	1645	2112	1158	292	2001	4136	5449	3506	-786	5826	8822	5790	3237
68 1996 Regional Report Surplus Deficit	2497	1541	2766	3879	8604	10779	10781	11714	11163	9769	10014	8694	9208	9184	8200
69 1997 Regional Report Surplus Deficit	4975	4880	3000	2419	3935	4085	10652	11112	11206	10289	10140	10755	11570	10351	7832
70 1998 Regional Report Surplus Deficit	5445	6748	5357	7673	5937	2370	3637	5925	3843	2832	517	9036	10072	6247	5654
71 1999 Regional Report Surplus Deficit	3831	4275	2157	2597	1899	3902	8119	8341	8920	6623	5986	7052	10607	10722	6216
72 2000 Regional Report Surplus Deficit	7406	7858	3194	2447	7524	5037	4429	4657	4558	8402	8301	6367	4227	5285	5310
73 2001 Regional Report Surplus Deficit	2883	1166	1846	1939	1687	-833	-190	-487	67.2	921	-2065	711	1275	1283	733
74 2002 Regional Report Surplus Deficit	414	117	1041	476	1206	817	285	743	1360	4145	5825	5059	9088	8205	2797
75 2003 Regional Report Surplus Deficit	2043	1715	1972	1729	2158	-659	196	1744	4405	3384	1976	2699	7831	2743	2440
76 2004 Regional Report Surplus Deficit	-713	-5.55	1564	1816	2667	1442	845	-55.4	1580	2931	1510	3388	5638	3207	2003
77 2005 Regional Report Surplus Deficit	-8.65	1400	3600	2714	3102	2439	3060	3841	1541	585	-807	3474	5217	3704	2765
78 2006 Regional Report Surplus Deficit	732	685	2027	1770	2481	1568	6162	6359	4378	9489	7673	8729	9395	4487	4697
79 2007 Regional Report Surplus Deficit	1079	556	1557	1540	3641	2040	4317	3330	7192	6411	2116	6266	6467	4831	3857
80 2008 Regional Report Surplus Deficit	544	29.1	1097	1743	2214	450	855	1119	1931	2486	-350	6876	11349	7906	3080
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>1187</b>	<b>1138</b>	<b>1886</b>	<b>2060</b>	<b>1706</b>	<b>-723</b>	<b>-931</b>	<b>-348</b>	<b>281</b>	<b>1115</b>	<b>-1041</b>	<b>800</b>	<b>3345</b>	<b>2112</b>	<b>951</b>
82 <b>Middle 80 pct</b>	<b>2747</b>	<b>2668</b>	<b>2693</b>	<b>2589</b>	<b>3333</b>	<b>2067</b>	<b>3803</b>	<b>4239</b>	<b>4062</b>	<b>5130</b>	<b>3630</b>	<b>6403</b>	<b>7974</b>	<b>6031</b>	<b>4185</b>
83 <b>Top 10 pct</b>	<b>4513</b>	<b>4187</b>	<b>3242</b>	<b>3538</b>	<b>5366</b>	<b>6470</b>	<b>9741</b>	<b>10196</b>	<b>9736</b>	<b>9638</b>	<b>8686</b>	<b>9354</b>	<b>10212</b>	<b>9542</b>	<b>7560</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2028**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	2512	2416	2066	2110	2333	-693	-1101	71.5	487	-811	-1661	1208	7129	1213	1331
2 1930 Regional Report Surplus Deficit	614	421	1770	2073	1469	-1192	-1748	445	445	225	-1463	1485	3144	2754	875
3 1931 Regional Report Surplus Deficit	731	502	1625	1942	1648	-980	-1504	-224	662	-335	-2146	1502	2511	2087	721
4 1932 Regional Report Surplus Deficit	898	157	1606	1615	1236	-932	-277	-1989	3940	4878	6847	8632	9180	5621	2927
5 1933 Regional Report Surplus Deficit	2710	2203	2358	1799	2584	2625	4505	4810	4415	3107	727	6087	11843	10111	4623
6 1934 Regional Report Surplus Deficit	6077	5221	3100	3884	7461	9050	9833	9484	8295	8750	6376	6968	6769	1861	6648
7 1935 Regional Report Surplus Deficit	422	724	1141	1727	2032	911	4308	4847	4198	673	1407	5614	5781	5901	3171
8 1936 Regional Report Surplus Deficit	4426	1333	1669	1537	1672	-957	-1155	-794	901	402	4403	8998	8721	4157	2504
9 1937 Regional Report Surplus Deficit	534	485	1110	2171	1519	-944	-2118	-1379	-66.4	-226	-2073	1169	5804	2724	780
10 1938 Regional Report Surplus Deficit	1135	316	1915	1721	2542	1478	3279	4170	5230	5465	7477	8658	7234	6197	4129
11 1939 Regional Report Surplus Deficit	1154	708	1994	1720	1786	-619	1741	2286	2201	1806	3203	5115	4724	3141	2288
12 1940 Regional Report Surplus Deficit	258	348	1376	1937	2067	1430	1773	1684	4834	3261	767	5391	4296	659	2316
13 1941 Regional Report Surplus Deficit	-327	-162	1345	1897	1764	329	-4.71	536	1548	-382	-2590	1193	3740	1862	1040
14 1942 Regional Report Surplus Deficit	652	318	1807	1830	2118	3488	2672	3403	531	-226	546	2883	8976	7101	2948
15 1943 Regional Report Surplus Deficit	2587	2625	2872	1742	2123	827	5036	5244	5784	10890	8917	6905	11283	10477	5388
16 1944 Regional Report Surplus Deficit	3562	2437	2377	2361	1650	-542	31.6	430	69.7	-420	-2680	160	2888	1168	1002
17 1945 Regional Report Surplus Deficit	635	60.8	1241	1604	1060	-1012	-479	-33.8	418	-723	-1970	4425	8840	2181	1433
18 1946 Regional Report Surplus Deficit	922	560	1740	2343	2146	1649	3408	3807	4431	7493	8186	8951	7933	7738	4391
19 1947 Regional Report Surplus Deficit	3983	3248	2611	1867	3761	6372	6535	7270	6701	5486	3733	7699	8354	6618	5497
20 1948 Regional Report Surplus Deficit	2290	1856	2468	6987	6052	3486	6387	6047	4016	4001	5603	10888	12370	7924	6122
21 1949 Regional Report Surplus Deficit	6272	5698	3470	2612	3176	1057	2244	3450	6415	5652	6576	9188	7891	2832	4534
22 1950 Regional Report Surplus Deficit	541	127	1566	2020	2387	1842	6469	7433	7791	8216	5431	7362	11602	11706	5600
23 1951 Regional Report Surplus Deficit	6431	5641	3299	4536	7115	7275	9284	10837	8985	8880	6471	8713	8226	9207	7591
24 1952 Regional Report Surplus Deficit	4634	2372	2956	6088	4888	3871	5924	6581	4331	7508	9244	10730	8921	6326	6033
25 1953 Regional Report Surplus Deficit	2664	1960	1385	2371	1360	-1003	1759	8379	3127	-214	-365	6645	12017	9490	3941
26 1954 Regional Report Surplus Deficit	3389	3078	2717	2447	3761	3037	5832	7615	5832	4863	2883	8109	9877	11284	5630
27 1955 Regional Report Surplus Deficit	7337	7892	6116	2788	4999	2548	1202	2447	-137	734	-1695	4378	11541	11107	4511
28 1956 Regional Report Surplus Deficit	5841	3874	2667	3670	6183	6689	8918	8912	8949	7667	9892	10694	11578	8818	7552
29 1957 Regional Report Surplus Deficit	5078	4787	2986	3251	3102	3331	3313	2821	5536	7324	3114	11340	11383	4712	5167
30 1958 Regional Report Surplus Deficit	2910	1054	1733	1876	1964	1099	4786	5692	4128	2855	4213	9702	10062	4092	4209
31 1959 Regional Report Surplus Deficit	2427	986	1929	2290	4867	5515	8137	8412	5315	6696	3893	7195	9954	9507	5831
32 1960 Regional Report Surplus Deficit	5327	5385	7475	8501	7782	4905	4972	5245	4551	9042	5610	5786	8798	5883	6372
33 1961 Regional Report Surplus Deficit	3878	1423	2135	2145	3836	1557	4461	6385	6490	5746	1476	7313	10118	4403	4575
34 1962 Regional Report Surplus Deficit	2789	1287	1730	1906	2183	1423	4091	4906	1614	3836	7815	6899	7678	4248	3696
35 1963 Regional Report Surplus Deficit	3380	2382	2183	3152	5152	4728	4989	6203	2139	1273	-1118	5300	9420	5362	4289
36 1964 Regional Report Surplus Deficit	2349	1575	2887	1848	2974	1479	2635	3226	1108	3191	576	7046	12905	10543	4202
37 1965 Regional Report Surplus Deficit	5681	5169	4306	3770	4182	6955	9980	10599	8827	3449	8806	8871	9294	6633	7072
38 1966 Regional Report Surplus Deficit	5384	4905	2436	2789	3128	1889	3688	4016	2338	4677	2026	4928	7692	5461	3901
39 1967 Regional Report Surplus Deficit	2614	1126	2155	1776	2181	3123	6875	7474	6082	3791	-505	6790	11696	8843	5034
40 1968 Regional Report Surplus Deficit	4033	3616	2802	2989	3822	2167	4988	6801	6858	9.56	-1872	4536	9563	6386	4478
41 1969 Regional Report Surplus Deficit	4253	4905	5259	4403	6170	3936	8029	8301	6312	8128	8403	10253	9269	6625	6771
42 1970 Regional Report Surplus Deficit	2650	1090	2202	2465	2921	740	4719	5912	3026	426	-1563	6333	10492	4528	3705
43 1971 Regional Report Surplus Deficit	1662	1105	1673	2420	2023	1683	8970	10507	9007	7900	6092	10646	12702	10445	6522
44 1972 Regional Report Surplus Deficit	6379	6239	3335	3162	3689	2741	8108	9699	12617	10957	5348	9897	12886	10291	7567
45 1973 Regional Report Surplus Deficit	6619	6870	3861	2987	3414	2480	3707	4203	1629	-498	-2877	1467	4159	2160	2926
46 1974 Regional Report Surplus Deficit	941	-147	2013	1783	2045	4137	11339	11451	10705	9256	8204	9101	13026	11840	7197
47 1975 Regional Report Surplus Deficit	6862	6860	3510	1815	2436	1423	4474	5131	5689	1883	807	7838	11810	11189	5300
48 1976 Regional Report Surplus Deficit	4298	4517	3871	4656	6689	8605	8501	8853	7184	8507	5600	10244	9544	9983	7466
49 1977 Regional Report Surplus Deficit	7645	8330	8123	2724	2191	-412	458	615	-0.19	-832	-3148	872	1816	660	1922
50 1978 Regional Report Surplus Deficit	526	-66.4	1025	699	1619	2137	3204	3489	3774	7615	2881	7555	6425	6738	3510
51 1979 Regional Report Surplus Deficit	3126	2731	5118	2797	2916	18.6	1552	1739	4192	426	659	6755	4936	1915	2952
52 1980 Regional Report Surplus Deficit	305	175	1828	1748	1743	-440	2132	1253	1359	3327	4425	9400	9619	4685	3118
53 1981 Regional Report Surplus Deficit	756	596	2258	1701	3185	5311	6900	7537	2499	-817	-753	6714	10481	8168	4546
54 1982 Regional Report Surplus Deficit	5408	5015	2756	2254	3731	2266	5445	10491	10890	7681	2970	9024	11189	11489	6661

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2028**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	5616	6047	4868	4059	3995	3390	6992	8136	8977	5693	2309	7536	9053	9836	6390
56 1984 Regional Report Surplus Deficit	5664	5663	3563	2686	7225	3749	6726	6553	7280	4380	5748	6976	11323	8959	6307
57 1985 Regional Report Surplus Deficit	4665	2817	3636	2793	4362	1778	2481	3035	2395	4471	4069	6515	5014	2302	3518
58 1986 Regional Report Surplus Deficit	-98.8	-344	2090	3244	5195	2024	4962	7788	10189	7928	5765	6065	8465	3592	4997
59 1987 Regional Report Surplus Deficit	1739	728	1856	2221	3152	1794	1520	1307	3699	993	919	6525	4570	1237	2510
60 1988 Regional Report Surplus Deficit	83.3	-244	2151	1489	1014	-1507	-1239	-299	600	-314	-59.3	1557	4579	3371	950
61 1989 Regional Report Surplus Deficit	745	244	1523	2143	2174	728	-126	-1405	3410	3522	7469	6316	5316	3114	2439
62 1990 Regional Report Surplus Deficit	743	549	1908	1856	3485	3306	4459	6191	5028	4045	5834	6318	8891	6019	4406
63 1991 Regional Report Surplus Deficit	3595	3425	1966	2154	7087	3822	6490	6866	5431	5076	2564	6377	8756	9387	5465
64 1992 Regional Report Surplus Deficit	5588	4231	2011	1413	2452	-806	928	1292	1774	-531	-1498	4485	3041	665	1765
65 1993 Regional Report Surplus Deficit	38.0	-183	1646	1512	1523	-793	-1002	-1547	2118	1140	-1799	7565	6833	4086	1806
66 1994 Regional Report Surplus Deficit	1685	1176	1868	2042	1817	-285	-647	660	864	-175	1467	3742	4104	2739	1580
67 1995 Regional Report Surplus Deficit	524	21.1	1531	2041	1077	210	1941	4404	5728	2049	-1700	6282	9617	5781	3249
68 1996 Regional Report Surplus Deficit	2654	1244	2652	3808	8523	10696	10721	11982	11439	8359	9158	8952	9983	9176	8205
69 1997 Regional Report Surplus Deficit	5132	4582	2887	2348	3854	4002	10592	11380	11508	9005	9410	11207	12064	10485	7854
70 1998 Regional Report Surplus Deficit	5601	6451	5243	7602	5856	2287	3577	6193	4096	1385	-397	9396	10875	6257	5657
71 1999 Regional Report Surplus Deficit	3988	3977	2043	2526	1818	3820	8059	8609	9282	5217	5134	7502	11287	10735	6235
72 2000 Regional Report Surplus Deficit	7563	7561	3081	2376	7443	4955	4369	4925	4833	6997	7449	6776	4870	5273	5306
73 2001 Regional Report Surplus Deficit	3039	868	1732	1868	1607	-916	-250	-219	283	-549	-2980	1094	1865	1220	707
74 2002 Regional Report Surplus Deficit	571	-181	927	405	1126	735	224	1011	1597	2774	5008	5518	9880	8291	2813
75 2003 Regional Report Surplus Deficit	2199	1418	1858	1658	2077	-741	136	2012	4679	1938	1083	3078	8467	2693	2426
76 2004 Regional Report Surplus Deficit	-557	-303	1451	1745	2586	1359	784	213	1814	1470	602	3801	6384	3149	1992
77 2005 Regional Report Surplus Deficit	148	1102	3487	2643	3021	2357	2999	4109	1771	-885	-1721	3838	5852	3637	2747
78 2006 Regional Report Surplus Deficit	888	388	1913	1700	2401	1486	6102	6627	4646	8189	6926	9157	9995	4461	4704
79 2007 Regional Report Surplus Deficit	1236	259	1444	1469	3561	1957	4257	3598	7502	4973	1232	6749	7225	4810	3868
80 2008 Regional Report Surplus Deficit	700	-268	984	1672	2133	367	794	1387	2161	1032	-1265	7233	11975	7939	3062
<b>Ranked Averages</b>															
81 <b>Bottom 10 pct</b>	<b>1344</b>	<b>841</b>	<b>1772</b>	<b>1989</b>	<b>1625</b>	<b>-806</b>	<b>-992</b>	<b>-79.9</b>	<b>503</b>	<b>-351</b>	<b>-1956</b>	<b>1171</b>	<b>3957</b>	<b>2050</b>	<b>926</b>
82 <b>Middle 80 pct</b>	<b>2903</b>	<b>2371</b>	<b>2579</b>	<b>2518</b>	<b>3252</b>	<b>1984</b>	<b>3743</b>	<b>4507</b>	<b>4329</b>	<b>3709</b>	<b>2760</b>	<b>6798</b>	<b>8627</b>	<b>6022</b>	<b>4181</b>
83 <b>Top 10 pct</b>	<b>4669</b>	<b>3890</b>	<b>3129</b>	<b>3467</b>	<b>5285</b>	<b>6388</b>	<b>9680</b>	<b>10464</b>	<b>10027</b>	<b>8260</b>	<b>7861</b>	<b>9710</b>	<b>10825</b>	<b>9554</b>	<b>7563</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2029**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	2324	2469	2037	2040	2232	-755	-1178	-344	111	169	-1435	426	6391	1116	1151
2 1930 Regional Report Surplus Deficit	426	474	1741	2002	1368	-1254	-1824	29.1	68.9	1190	-1237	684	2383	2655	688
3 1931 Regional Report Surplus Deficit	543	555	1596	1872	1547	-1041	-1580	-639	294	636	-1919	719	1800	1990	543
4 1932 Regional Report Surplus Deficit	710	210	1577	1545	1135	-993	-353	-2405	3529	5752	6975	7797	8409	5467	2734
5 1933 Regional Report Surplus Deficit	2522	2256	2329	1729	2483	2563	4428	4395	4004	4037	911	5310	11196	10014	4441
6 1934 Regional Report Surplus Deficit	5889	5274	3071	3814	7360	8988	9757	9069	7825	9570	6448	6116	5958	1758	6423
7 1935 Regional Report Surplus Deficit	234	777	1112	1656	1931	849	4232	4432	3779	1640	1625	4781	5035	5752	2969
8 1936 Regional Report Surplus Deficit	4238	1386	1640	1467	1571	-1019	-1231	-1210	522	1317	4571	8195	7881	4044	2313
9 1937 Regional Report Surplus Deficit	346	538	1081	2101	1418	-1006	-2194	-1795	-437	732	-1847	346	4993	2604	590
10 1938 Regional Report Surplus Deficit	947	369	1886	1651	2441	1416	3203	3754	4778	6348	7613	7863	6455	5995	3918
11 1939 Regional Report Surplus Deficit	965	761	1965	1650	1685	-681	1665	1870	1812	2744	3394	4298	3949	3025	2093
12 1940 Regional Report Surplus Deficit	69.5	401	1347	1867	1966	1368	1697	1269	4422	4184	943	4552	3529	565	2120
13 1941 Regional Report Surplus Deficit	-515	-109	1316	1827	1663	267	-80.8	120	1164	579	-2363	412	3005	1768	857
14 1942 Regional Report Surplus Deficit	464	371	1778	1759	2017	3427	2596	2987	163	763	756	2082	8160	6900	2747
15 1943 Regional Report Surplus Deficit	2399	2678	2843	1672	2022	765	4960	4828	5306	11779	9059	6067	10452	10183	5160
16 1944 Regional Report Surplus Deficit	3374	2490	2348	2291	1549	-604	-44.5	13.9	-301	558	-2453	-633	2147	1076	820
17 1945 Regional Report Surplus Deficit	447	114	1212	1534	959	-1074	-555	-449	53.3	254	-1744	3599	7974	2082	1241
18 1946 Regional Report Surplus Deficit	734	613	1711	2272	2045	1587	3332	3391	4000	8389	8334	8166	7145	7600	4190
19 1947 Regional Report Surplus Deficit	3795	3301	2582	1796	3660	6310	6459	6854	6267	6442	3940	6839	7512	6445	5281
20 1948 Regional Report Surplus Deficit	2102	1908	2439	6917	5951	3424	6310	5632	3558	4878	5733	10016	11546	7656	5894
21 1949 Regional Report Surplus Deficit	6084	5751	3441	2542	3075	995	2168	3034	5976	6588	6764	8440	7122	2726	4345
22 1950 Regional Report Surplus Deficit	353	180	1537	1950	2286	1780	6393	7018	7348	9103	5571	6490	10874	11493	5382
23 1951 Regional Report Surplus Deficit	6243	5694	3270	4466	7014	7213	9208	10422	8562	9750	6595	7912	7411	8915	7362
24 1952 Regional Report Surplus Deficit	4446	2425	2927	6017	4787	3809	5848	6165	3900	8448	9436	9965	8120	6209	5835
25 1953 Regional Report Surplus Deficit	2476	2013	1356	2301	1259	-1065	1683	7963	2729	780	-118	5837	11241	9270	3730
26 1954 Regional Report Surplus Deficit	3201	3131	2688	2377	3660	2975	5756	7200	5386	5775	3047	7291	9118	11036	5412
27 1955 Regional Report Surplus Deficit	7149	7945	6087	2718	4898	2486	1126	2031	-508	1693	-1469	3534	10809	10933	4322
28 1956 Regional Report Surplus Deficit	5653	3927	2638	3600	6082	6627	8842	8497	8506	8578	10055	9924	10991	8740	7369
29 1957 Regional Report Surplus Deficit	4889	4840	2957	3181	3001	3269	3237	2405	5103	8215	3259	10705	10688	4584	4992
30 1958 Regional Report Surplus Deficit	2722	1107	1704	1805	1863	1038	4710	5276	3732	3810	4420	8921	9211	3946	4005
31 1959 Regional Report Surplus Deficit	2239	1039	1900	2220	4766	5453	8061	7997	4876	7573	4022	6351	9304	9409	5629
32 1960 Regional Report Surplus Deficit	5139	5438	7446	8431	7681	4843	4896	4830	4137	9959	5780	4967	7982	5682	6166
33 1961 Regional Report Surplus Deficit	3689	1476	2106	2075	3735	1495	4385	5969	6083	6658	1641	6496	9315	4279	4368
34 1962 Regional Report Surplus Deficit	2601	1339	1701	1835	2082	1361	4015	4491	1227	4751	7983	6099	6837	4129	3492
35 1963 Regional Report Surplus Deficit	3192	2434	2154	3082	5051	4666	4913	5787	1757	2221	-892	4477	8543	5220	4079
36 1964 Regional Report Surplus Deficit	2161	1628	2858	1778	2873	1417	2559	2810	731	4148	785	6191	12163	10402	4009
37 1965 Regional Report Surplus Deficit	5492	5222	4277	3700	4080	6893	9904	10183	8393	4325	8935	8118	8577	6500	6867
38 1966 Regional Report Surplus Deficit	5196	4958	2407	2718	3027	1828	3612	3601	1948	5583	2184	4095	6778	5304	3687
39 1967 Regional Report Surplus Deficit	2426	1179	2126	1706	2080	3061	6799	7059	5629	4723	-222	5892	10730	8591	4796
40 1968 Regional Report Surplus Deficit	3845	3669	2773	2919	3720	2105	4912	6385	6418	992	-1646	3789	8868	6266	4287
41 1969 Regional Report Surplus Deficit	4064	4958	5230	4332	6069	3875	7953	7886	5856	8965	8493	9468	8591	6441	6563
42 1970 Regional Report Surplus Deficit	2462	1143	2173	2395	2820	678	4643	5497	2641	1395	-1337	5576	9838	4431	3524
43 1971 Regional Report Surplus Deficit	1474	1157	1644	2349	1922	1621	8894	10092	8492	8741	6185	9935	11991	10227	6303
44 1972 Regional Report Surplus Deficit	6191	6291	3306	3092	3588	2680	8032	9284	12094	11817	5460	9043	12040	10120	7335
45 1973 Regional Report Surplus Deficit	6431	6923	3832	2917	3313	2418	3631	3788	1241	480	-2651	689	3381	2054	2734
46 1974 Regional Report Surplus Deficit	753	-94.4	1984	1713	1944	4075	11263	11036	10295	10146	8347	8338	12319	11755	6997
47 1975 Regional Report Surplus Deficit	6674	6913	3481	1745	2335	1361	4398	4716	5261	2825	1001	7049	11076	11017	5103
48 1976 Regional Report Surplus Deficit	4110	4570	3842	4586	6588	8543	8425	8437	6774	9465	5810	9514	8791	9810	7271
49 1977 Regional Report Surplus Deficit	7457	8383	8094	2654	2090	-474	382	200	-371	145	-2922	83.0	1094	569	1744
50 1978 Regional Report Surplus Deficit	338	-13.5	996	629	1518	2075	3128	3074	3376	8504	3023	6774	5652	6572	3309
51 1979 Regional Report Surplus Deficit	2937	2783	5089	2727	2815	-43.2	1476	1323	3799	1378	863	5981	4204	1815	2769
52 1980 Regional Report Surplus Deficit	117	227	1799	1678	1642	-502	2056	837	988	4293	4643	8560	8830	4580	2929
53 1981 Regional Report Surplus Deficit	568	649	2229	1631	3084	5249	6824	7121	2102	163	-519	5909	9618	7954	4331
54 1982 Regional Report Surplus Deficit	5220	5068	2727	2184	3630	2204	5369	10075	10437	8636	3178	8191	10513	11376	6458

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2029**

**2019 White Book** Report Date: 2/5/2020 *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	5428	6099	4839	3988	3894	3329	6916	7720	8532	6617	2485	6708	8305	9635	6178
56 1984 Regional Report Surplus Deficit	5476	5716	3534	2616	7124	3687	6650	6138	6797	5241	5862	6113	10581	8792	6092
57 1985 Regional Report Surplus Deficit	4476	2870	3606	2722	4261	1716	2404	2620	2006	5399	4249	5701	4295	2202	3330
58 1986 Regional Report Surplus Deficit	-287	-291	2061	3173	5094	1962	4886	7372	9766	8852	5943	5278	7803	3487	4803
59 1987 Regional Report Surplus Deficit	1551	780	1827	2151	3051	1732	1444	892	3283	1947	1125	5615	3773	1144	2309
60 1988 Regional Report Surplus Deficit	-105	-191	2122	1419	913	-1569	-1315	-714	228	677	172	776	3845	3277	772
61 1989 Regional Report Surplus Deficit	557	297	1494	2073	2073	666	-202	-1821	3020	4432	7632	5448	4524	3014	2247
62 1990 Regional Report Surplus Deficit	555	602	1879	1786	3384	3244	4383	5776	4584	4911	5953	5476	8032	5788	4177
63 1991 Regional Report Surplus Deficit	3407	3478	1937	2083	6986	3760	6413	6450	4980	5954	2694	5555	7895	9108	5235
64 1992 Regional Report Surplus Deficit	5400	4284	1982	1342	2351	-868	852	876	1391	450	-1272	3656	2318	573	1580
65 1993 Regional Report Surplus Deficit	-150	-130	1617	1442	1422	-855	-1078	-1963	1736	2101	-1573	6707	6047	3957	1617
66 1994 Regional Report Surplus Deficit	1497	1229	1839	1972	1716	-347	-723	244	484	801	1696	2924	3371	2635	1396
67 1995 Regional Report Surplus Deficit	336	74.0	1502	1971	976	148	1864	3989	5299	3012	-1474	5403	8691	5630	3029
68 1996 Regional Report Surplus Deficit	2466	1297	2623	3738	8422	10634	10645	11566	11013	9275	9326	8271	9076	9024	7992
69 1997 Regional Report Surplus Deficit	4943	4635	2858	2278	3753	3940	10515	10964	11057	9795	9452	10332	11438	10191	7624
70 1998 Regional Report Surplus Deficit	5413	6504	5214	7532	5755	2225	3501	5778	3693	2338	-171	8613	9940	6087	5447
71 1999 Regional Report Surplus Deficit	3800	4030	2014	2456	1717	3758	7983	8193	8770	6129	5298	6629	10476	10561	6008
72 2000 Regional Report Surplus Deficit	7375	7613	3052	2306	7342	4893	4292	4510	4408	7908	7613	5945	4096	5124	5102
73 2001 Regional Report Surplus Deficit	2851	921	1703	1798	1506	-977	-327	-634	-82.6	427	-2754	288	1143	1123	526
74 2002 Regional Report Surplus Deficit	383	-128	898	335	1025	673	148	596	1211	3651	5137	4636	8956	8045	2589
75 2003 Regional Report Surplus Deficit	2011	1471	1829	1588	1976	-803	59.6	1596	4255	2889	1287	2276	7699	2583	2232
76 2004 Regional Report Surplus Deficit	-745	-250	1422	1675	2485	1297	708	-203	1430	2437	822	2965	5506	3047	1795
77 2005 Regional Report Surplus Deficit	-40.1	1155	3457	2573	2920	2295	2923	3693	1392	91.4	-1495	3052	5086	3544	2557
78 2006 Regional Report Surplus Deficit	700	440	1884	1629	2300	1424	6026	6211	4229	8995	6985	8306	9263	4326	4489
79 2007 Regional Report Surplus Deficit	1048	312	1415	1398	3460	1896	4181	3182	7043	5917	1428	5843	6335	4671	3649
80 2008 Regional Report Surplus Deficit	512	-216	955	1602	2032	305	718	971	1781	1992	-1039	6453	11217	7745	2873

**Ranked Averages**

81 <b>Bottom 10 pct</b>	<b>1156</b>	<b>894</b>	<b>1743</b>	<b>1919</b>	<b>1524</b>	<b>-867</b>	<b>-1068</b>	<b>-495</b>	<b>131</b>	<b>621</b>	<b>-1730</b>	<b>377</b>	<b>3213</b>	<b>1951</b>	<b>743</b>
82 <b>Middle 80 pct</b>	<b>2715</b>	<b>2423</b>	<b>2550</b>	<b>2447</b>	<b>3151</b>	<b>1923</b>	<b>3667</b>	<b>4092</b>	<b>3913</b>	<b>4636</b>	<b>2941</b>	<b>5980</b>	<b>7842</b>	<b>5870</b>	<b>3978</b>
83 <b>Top 10 pct</b>	<b>4481</b>	<b>3943</b>	<b>3100</b>	<b>3396</b>	<b>5184</b>	<b>6326</b>	<b>9604</b>	<b>10049</b>	<b>9587</b>	<b>9144</b>	<b>7997</b>	<b>8932</b>	<b>10081</b>	<b>9382</b>	<b>7352</b>

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2030**

**2019 White Book Report Date: 2/5/2020**

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1 1929 Regional Report Surplus Deficit	2186	2409	1975	1977	2195	-830	-1256	-440	243	382	-1011	1039	7023	1080	1247
2 1930 Regional Report Surplus Deficit	288	414	1679	1940	1331	-1329	-1903	-66.6	201	1419	-814	1316	3038	2621	789
3 1931 Regional Report Surplus Deficit	404	495	1534	1809	1510	-1117	-1659	-735	418	858	-1496	1333	2405	1955	636
4 1932 Regional Report Surplus Deficit	572	150	1515	1482	1098	-1068	-432	-2500	3696	6071	7497	8462	9075	5489	2853
5 1933 Regional Report Surplus Deficit	2383	2196	2266	1666	2445	2488	4350	4299	4172	4300	1377	5918	11738	9979	4536
6 1934 Regional Report Surplus Deficit	5751	5214	3009	3751	7323	8913	9678	8973	8051	9943	7025	6799	6663	1729	6553
7 1935 Regional Report Surplus Deficit	95.4	717	1050	1594	1894	774	4154	4336	3954	1867	2056	5445	5676	5769	3080
8 1936 Regional Report Surplus Deficit	4099	1326	1578	1404	1534	-1094	-1310	-1306	657	1595	5052	8828	8616	4024	2426
9 1937 Regional Report Surplus Deficit	207	478	1018	2038	1381	-1081	-2273	-1891	-310	968	-1424	1000	5698	2591	698
10 1938 Regional Report Surplus Deficit	809	309	1824	1589	2404	1341	3124	3659	4987	6659	8126	8488	7128	6064	4042
11 1939 Regional Report Surplus Deficit	827	701	1903	1587	1648	-756	1586	1775	1958	2999	3853	4945	4618	3009	2201
12 1940 Regional Report Surplus Deficit	-69.0	341	1285	1804	1928	1293	1619	1173	4591	4454	1417	5222	4190	527	2230
13 1941 Regional Report Surplus Deficit	-653	-169	1254	1765	1626	192	-159	24.3	1304	811	-1940	1024	3634	1730	954
14 1942 Regional Report Surplus Deficit	325	311	1715	1697	1980	3352	2517	2892	288	967	1195	2714	8870	6968	2860
15 1943 Regional Report Surplus Deficit	2260	2618	2781	1610	1985	690	4881	4733	5541	12083	9567	6736	11177	10345	5302
16 1944 Regional Report Surplus Deficit	3236	2430	2286	2229	1511	-679	-123	-81.8	-174	774	-2030	-9.79	2783	1036	916
17 1945 Regional Report Surplus Deficit	309	53.7	1150	1472	921	-1149	-633	-545	174	470	-1321	4255	8734	2048	1350
18 1946 Regional Report Surplus Deficit	596	553	1649	2210	2008	1512	3254	3296	4188	8686	8836	8781	7827	7605	4305
19 1947 Regional Report Surplus Deficit	3657	3241	2519	1734	3622	6235	6380	6758	6458	6679	4382	7530	8248	6486	5405
20 1948 Regional Report Surplus Deficit	1964	1849	2377	6854	5913	3349	6232	5536	3772	5195	6253	10719	12265	7792	6035
21 1949 Regional Report Surplus Deficit	5946	5691	3378	2479	3038	920	2090	2939	6171	6845	7225	9019	7786	2700	4450
22 1950 Regional Report Surplus Deficit	215	120	1475	1887	2248	1705	6314	6922	7547	9409	6081	7193	11496	11574	5508
23 1951 Regional Report Surplus Deficit	6104	5634	3207	4404	6977	7138	9129	10326	8742	10073	7121	8544	8120	9075	7495
24 1952 Regional Report Surplus Deficit	4308	2365	2864	5955	4750	3734	5770	6069	4087	8701	9893	10561	8816	6193	5944
25 1953 Regional Report Surplus Deficit	2338	1953	1294	2238	1222	-1140	1604	7868	2884	979	284	6475	11911	9358	3842
26 1954 Regional Report Surplus Deficit	3063	3071	2626	2315	3623	2900	5678	7104	5588	6057	3533	7940	9771	11152	5537
27 1955 Regional Report Surplus Deficit	7011	7885	6024	2655	4861	2411	1047	1935	-381	1927	-1045	4209	11435	10974	4430
28 1956 Regional Report Surplus Deficit	5514	3867	2576	3537	6045	6552	8763	8401	8706	8860	10541	10525	11473	8686	7461
29 1957 Regional Report Surplus Deficit	4751	4780	2895	3118	2964	3194	3158	2309	5293	8517	3763	11170	11277	4579	5086
30 1958 Regional Report Surplus Deficit	2583	1047	1642	1743	1826	963	4631	5181	3884	4048	4863	9533	9956	3959	4118
31 1959 Regional Report Surplus Deficit	2100	979	1838	2158	4729	5378	7983	7901	5071	7889	4542	7026	9848	9375	5737
32 1960 Regional Report Surplus Deficit	5000	5378	7384	8368	7644	4768	4817	4734	4307	10236	6260	5617	8692	5751	6288
33 1961 Regional Report Surplus Deficit	3551	1416	2044	2013	3698	1420	4306	5874	6246	6939	2125	7144	10012	4270	4483
34 1962 Regional Report Surplus Deficit	2462	1279	1638	1773	2044	1286	3936	4395	1370	5029	8464	6730	7572	4116	3606
35 1963 Regional Report Surplus Deficit	3053	2374	2092	3019	5014	4591	4835	5692	1895	2467	-469	5131	9315	5230	4196
36 1964 Regional Report Surplus Deficit	2022	1568	2796	1715	2836	1342	2480	2715	864	4384	1225	6877	12799	10411	4118
37 1965 Regional Report Surplus Deficit	5354	5162	4215	3637	4043	6818	9826	10088	8583	4642	9456	8701	9188	6500	6976
38 1966 Regional Report Surplus Deficit	5058	4898	2344	2656	2990	1752	3534	3505	2094	5870	2675	4759	7587	5329	3814
39 1967 Regional Report Surplus Deficit	2288	1119	2064	1643	2043	2986	6721	6963	5839	4984	145	6621	11591	8711	4940
40 1968 Regional Report Surplus Deficit	3706	3609	2711	2857	3683	2030	4834	6289	6614	1203	-1223	4367	9458	6254	4384
41 1969 Regional Report Surplus Deficit	3926	4898	5167	4270	6031	3799	7875	7790	6068	9321	9052	10084	9163	6493	6680
42 1970 Regional Report Surplus Deficit	2323	1083	2111	2332	2782	603	4564	5401	2783	1620	-913	6164	10386	4396	3612
43 1971 Regional Report Surplus Deficit	1335	1098	1581	2287	1885	1546	8816	9996	8763	9094	6742	10476	12596	10313	6424
44 1972 Regional Report Surplus Deficit	6052	6231	3244	3029	3550	2605	7954	9188	12374	12151	5997	9727	12780	10159	7474
45 1973 Regional Report Surplus Deficit	6292	6863	3769	2854	3276	2343	3553	3692	1385	696	-2227	1297	4053	2028	2835
46 1974 Regional Report Surplus Deficit	615	-154	1922	1650	1907	4000	11185	10940	10461	10450	8853	8932	12920	11707	7098
47 1975 Regional Report Surplus Deficit	6536	6853	3419	1682	2298	1286	4319	4620	5446	3077	1456	7669	11704	11056	5213
48 1976 Regional Report Surplus Deficit	3971	4510	3780	4523	6550	8468	8347	8341	6940	9700	6249	10074	9438	9851	7375
49 1977 Regional Report Surplus Deficit	7318	8323	8031	2591	2053	-549	303	104	-244	361	-2499	703	1710	527	1838
50 1978 Regional Report Surplus Deficit	200	-73.5	933	566	1481	2000	3049	2978	3530	8808	3530	7386	6320	6606	3423
51 1979 Regional Report Surplus Deficit	2799	2723	5027	2665	2778	-118	1397	1228	3948	1619	1308	6586	4830	1783	2868
52 1980 Regional Report Surplus Deficit	-21.5	168	1737	1615	1605	-577	1977	742	1115	4520	5074	9231	9513	4553	3036
53 1981 Regional Report Surplus Deficit	430	589	2167	1569	3047	5174	6746	7026	2256	376	-104	6545	10375	8036	4451
54 1982 Regional Report Surplus Deficit	5082	5008	2664	2122	3592	2129	5290	9980	10646	8874	3619	8855	11084	11357	6563

**Regional Report Surplus Deficit By Water Year**

**Operating Year 2030**

**2019 White Book** Report Date: **2/5/2020** *Continued*

S184-WB-20191230-103442

Energy-aMW - Surplus Deficit	Aug1	Aug1 6	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55 1983 Regional Report Surplus Deficit	5289	6039	4776	3926	3856	3254	6838	7625	8733	6886	2958	7367	8948	9703	6298
56 1984 Regional Report Surplus Deficit	5337	5656	3472	2553	7087	3612	6572	6042	7036	5573	6397	6807	11217	8827	6220
57 1985 Regional Report Surplus Deficit	4338	2810	3544	2660	4224	1641	2326	2524	2151	5665	4718	6345	4908	2169	3433
58 1986 Regional Report Surplus Deficit	-425	-351	1999	3111	5057	1887	4807	7277	9945	9121	6415	5896	8359	3459	4902
59 1987 Regional Report Surplus Deficit	1413	720	1765	2088	3014	1657	1365	796	3455	2186	1568	6356	4465	1105	2426
60 1988 Regional Report Surplus Deficit	-243	-251	2060	1357	875	-1644	-1394	-810	356	880	590	1388	4473	3239	867
61 1989 Regional Report Surplus Deficit	418	237	1431	2011	2036	591	-281	-1916	3166	4716	8119	6146	5210	2982	2362
62 1990 Regional Report Surplus Deficit	417	542	1816	1723	3346	3169	4304	5680	4784	5238	6483	6149	8785	5887	4314
63 1991 Regional Report Surplus Deficit	3269	3418	1875	2021	6949	3685	6335	6355	5187	6270	3213	6208	8651	9255	5374
64 1992 Regional Report Surplus Deficit	5262	4224	1920	1280	2314	-943	774	781	1530	662	-848	4316	2936	533	1679
65 1993 Regional Report Surplus Deficit	-289	-190	1555	1379	1384	-930	-1157	-2059	1875	2333	-1150	7395	6727	3954	1728
66 1994 Regional Report Surplus Deficit	1359	1169	1777	1909	1679	-422	-802	149	620	1018	2117	3573	3998	2607	1496
67 1995 Regional Report Surplus Deficit	197	14.1	1440	1909	939	73.0	1786	3893	5484	3242	-1051	6113	9511	5649	3159
68 1996 Regional Report Surplus Deficit	2327	1237	2561	3675	8385	10559	10566	11471	11195	9552	9807	8783	9877	9044	8108
69 1997 Regional Report Surplus Deficit	4805	4575	2796	2215	3716	3865	10437	10869	11264	10199	10060	11037	11958	10352	7758
70 1998 Regional Report Surplus Deficit	5275	6444	5152	7469	5718	2150	3422	5682	3852	2578	252	9227	10769	6125	5569
71 1999 Regional Report Surplus Deficit	3661	3970	1952	2394	1680	3683	7904	8097	9039	6410	5783	7333	11181	10603	6142
72 2000 Regional Report Surplus Deficit	7236	7554	2990	2243	7305	4818	4214	4414	4589	8190	8098	6606	4764	5141	5220
73 2001 Regional Report Surplus Deficit	2713	861	1641	1736	1468	-1052	-405	-730	39.1	644	-2330	925	1759	1088	622
74 2002 Regional Report Surplus Deficit	244	-188	836	273	987	598	69.6	500	1353	3967	5657	5348	9775	8159	2731
75 2003 Regional Report Surplus Deficit	1873	1411	1767	1525	1939	-878	-18.9	1500	4436	3131	1733	2909	8362	2561	2340
76 2004 Regional Report Surplus Deficit	-883	-310	1359	1612	2448	1222	630	-299	1571	2663	1252	3632	6278	3017	1909
77 2005 Regional Report Surplus Deficit	-179	1095	3395	2511	2882	2220	2844	3597	1528	308	-1072	3669	5746	3505	2656
78 2006 Regional Report Surplus Deficit	562	381	1822	1567	2262	1349	5947	6116	4402	9382	7576	8987	9890	4329	4612
79 2007 Regional Report Surplus Deficit	910	252	1352	1336	3422	1821	4102	3086	7258	6166	1881	6580	7119	4678	3782
80 2008 Regional Report Surplus Deficit	374	-276	892	1540	1995	230	640	875	1917	2225	-615	7064	11870	7807	2980

**Ranked Averages**

81 <b>Bottom 10 pct</b>	<b>1017</b>	<b>834</b>	<b>1681</b>	<b>1856</b>	<b>1487</b>	<b>-942</b>	<b>-1146</b>	<b>-591</b>	<b>260</b>	<b>842</b>	<b>-1307</b>	<b>1002</b>	<b>3852</b>	<b>1918</b>	<b>841</b>
82 <b>Middle 80 pct</b>	<b>2577</b>	<b>2363</b>	<b>2488</b>	<b>2385</b>	<b>3114</b>	<b>1848</b>	<b>3588</b>	<b>3996</b>	<b>4085</b>	<b>4902</b>	<b>3409</b>	<b>6629</b>	<b>8521</b>	<b>5890</b>	<b>4093</b>
83 <b>Top 10 pct</b>	<b>4343</b>	<b>3883</b>	<b>3037</b>	<b>3334</b>	<b>5147</b>	<b>6251</b>	<b>9526</b>	<b>9953</b>	<b>9783</b>	<b>9453</b>	<b>8511</b>	<b>9541</b>	<b>10719</b>	<b>9422</b>	<b>7468</b>

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