

Appendix V5-1M

Simulated Baseline Flows at Assessment Nodes under
the Average, 1-in-20-Year Dry, and 1-in-20-Year
Wet Conditions



Table M-1. Simulated Baseline Outflow of Wolverine Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.053	0	0	0	0	0	0	0.004
1	2019	0	0	0	0	0	0.053	0	0	0	0	0	0	0.004
2	2020	0	0	0	0	0	0.053	0	0	0	0	0	0	0.004
3	2021	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
4	2022	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
5	2023	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
6	2024	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
7	2025	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
8	2026	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
9	2027	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
10	2028	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
11	2029	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
12	2030	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
13	2031	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
14	2032	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
15	2033	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
16	2034	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
17	2035	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
18	2036	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
19	2037	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
20	2038	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
21	2039	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004
22	2040	0	0	0	0	0	0.052	0	0	0	0	0	0	0.004

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-2. Simulated Baseline Outflow of Wolverine Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
1	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2021	0	0	0	0	0	0	0	0	0	0	0	0	0
4	2022	0	0	0	0	0	0	0	0	0	0	0	0	0
5	2023	0	0	0	0	0	0	0	0	0	0	0	0	0
6	2024	0	0	0	0	0	0	0	0	0	0	0	0	0
7	2025	0	0	0	0	0	0	0	0	0	0	0	0	0
8	2026	0	0	0	0	0	0	0	0	0	0	0	0	0
9	2027	0	0	0	0	0	0	0	0	0	0	0	0	0
10	2028	0	0	0	0	0	0	0	0	0	0	0	0	0
11	2029	0	0	0	0	0	0	0	0	0	0	0	0	0
12	2030	0	0	0	0	0	0	0	0	0	0	0	0	0
13	2031	0	0	0	0	0	0	0	0	0	0	0	0	0
14	2032	0	0	0	0	0	0	0	0	0	0	0	0	0
15	2033	0	0	0	0	0	0	0	0	0	0	0	0	0
16	2034	0	0	0	0	0	0	0	0	0	0	0	0	0
17	2035	0	0	0	0	0	0	0	0	0	0	0	0	0
18	2036	0	0	0	0	0	0	0	0	0	0	0	0	0
19	2037	0	0	0	0	0	0	0	0	0	0	0	0	0
20	2038	0	0	0	0	0	0	0	0	0	0	0	0	0
21	2039	0	0	0	0	0	0	0	0	0	0	0	0	0
22	2040	0	0	0	0	0	0	0	0	0	0	0	0	0

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-3. Simulated Baseline Outflow of Wolverine Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0.081	0.086	0	0	0.013	0.020	0	0	0.017
1	2019	0	0	0	0	0.087	0.086	0.001	0.003	0.014	0.020	0	0	0.018
2	2020	0	0	0	0	0.069	0.080	0.006	0.002	0.013	0.026	0	0	0.016
3	2021	0	0	0	0	0.097	0.085	0	0	0.011	0.020	0	0	0.018
4	2022	0	0	0	0	0.072	0.084	0.000	0.003	0.013	0.024	0	0	0.016
5	2023	0	0	0	0	0.079	0.086	0.003	0	0.013	0.020	0	0	0.017
6	2024	0	0	0	0	0.075	0.078	0.000	0	0.013	0.025	0	0	0.016
7	2025	0	0	0	0	0.079	0.073	0.003	0	0.013	0.020	0	0	0.016
8	2026	0	0	0	0	0.076	0.082	0	0	0.013	0.020	0	0	0.016
9	2027	0	0	0	0	0.070	0.077	0.002	0	0.013	0.018	0	0	0.015
10	2028	0	0	0	0	0.080	0.071	0	0.005	0.013	0.025	0	0	0.016
11	2029	0	0	0	0	0.064	0.073	0.003	0	0.009	0.020	0	0	0.014
12	2030	0	0	0	0	0.081	0.078	0	0.003	0.012	0.020	0	0	0.016
13	2031	0	0	0	0	0.068	0.079	0.001	0	0.013	0.019	0	0	0.015
14	2032	0	0	0	0	0.081	0.066	0.003	0.002	0.012	0.019	0	0	0.015
15	2033	0	0	0	0	0.081	0.069	0	0	0.012	0.025	0	0	0.016
16	2034	0	0	0	0	0.079	0.067	0	0	0.007	0.019	0	0	0.014
17	2035	0	0	0	0	0.068	0.081	0.001	0.003	0.012	0.019	0	0	0.015
18	2036	0	0	0	0	0.081	0.061	0	0	0.010	0.018	0	0	0.014
19	2037	0	0	0	0	0.079	0.055	0.003	0	0.009	0.026	0	0	0.014
20	2038	0	0	0	0	0.079	0.059	0	0.002	0.009	0.018	0	0	0.014
21	2039	0	0	0	0	0.067	0.080	0.001	0	0.009	0.019	0	0	0.015
22	2040	0	0	0	0	0.083	0.056	0.002	0	0.009	0.018	0	0	0.014

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-4. Simulated Baseline Outflow of Patch Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.427	0.230	0.122	0.104	0	0	0	0.074
1	2019	0	0	0	0	0	0.431	0.230	0.122	0.105	0	0	0	0.074
2	2020	0	0	0	0	0	0.432	0.230	0.122	0.105	0	0	0	0.074
3	2021	0	0	0	0	0	0.433	0.230	0.121	0.104	0	0	0	0.074
4	2022	0	0	0	0	0	0.434	0.230	0.121	0.104	0	0	0	0.074
5	2023	0	0	0	0	0	0.435	0.229	0.121	0.104	0	0	0	0.074
6	2024	0	0	0	0	0	0.437	0.229	0.121	0.104	0	0	0	0.074
7	2025	0	0	0	0	0	0.438	0.229	0.121	0.104	0	0	0	0.074
8	2026	0	0	0	0	0	0.443	0.227	0.120	0.104	0	0	0	0.074
9	2027	0	0	0	0	0	0.444	0.227	0.120	0.104	0	0	0	0.074
10	2028	0	0	0	0	0	0.447	0.227	0.120	0.104	0	0	0	0.075
11	2029	0	0	0	0	0	0.448	0.226	0.120	0.103	0	0	0	0.075
12	2030	0	0	0	0	0	0.449	0.226	0.119	0.103	0	0	0	0.075
13	2031	0	0	0	0	0	0.450	0.226	0.119	0.103	0	0	0	0.075
14	2032	0	0	0	0	0	0.452	0.226	0.119	0.103	0	0	0	0.075
15	2033	0	0	0	0	0	0.453	0.226	0.119	0.103	0	0	0	0.075
16	2034	0	0	0	0	0	0.454	0.226	0.119	0.103	0	0	0	0.075
17	2035	0	0	0	0	0	0.455	0.226	0.119	0.103	0	0	0	0.075
18	2036	0	0	0	0	0	0.457	0.226	0.119	0.103	0	0	0	0.075
19	2037	0	0	0	0	0	0.458	0.225	0.119	0.103	0	0	0	0.075
20	2038	0	0	0	0	0	0.459	0.225	0.118	0.103	0	0	0	0.075
21	2039	0	0	0	0	0	0.461	0.225	0.118	0.103	0	0	0	0.075
22	2040	0	0	0	0	0	0.463	0.225	0.118	0.103	0	0	0	0.076

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-5. Simulated Baseline Outflow of Patch Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.231	0.105	0.062	0.062	0	0	0	0.038
1	2019	0	0	0	0	0	0.252	0.114	0.070	0.065	0	0	0	0.042
2	2020	0	0	0	0	0	0.289	0.119	0.062	0.062	0	0	0	0.044
3	2021	0	0	0	0	0	0.238	0.105	0.062	0.065	0	0	0	0.039
4	2022	0	0	0	0	0	0.253	0.109	0.065	0.065	0	0	0	0.041
5	2023	0	0	0	0	0	0.240	0.104	0.063	0.061	0	0	0	0.039
6	2024	0	0	0	0	0	0.254	0.105	0.062	0.061	0	0	0	0.040
7	2025	0	0	0	0	0	0.249	0.114	0.072	0.061	0	0	0	0.041
8	2026	0	0	0	0	0	0.246	0.103	0.061	0.066	0	0	0	0.040
9	2027	0	0	0	0	0	0.253	0.114	0.064	0.061	0	0	0	0.041
10	2028	0	0	0	0	0	0.266	0.103	0.067	0.063	0	0	0	0.041
11	2029	0	0	0	0	0	0.253	0.116	0.070	0.064	0	0	0	0.042
12	2030	0	0	0	0	0	0.253	0.107	0.061	0.064	0	0	0	0.040
13	2031	0	0	0	0	0	0.267	0.100	0.062	0.060	0	0	0	0.041
14	2032	0	0	0	0	0	0.254	0.101	0.066	0.060	0	0	0	0.040
15	2033	0	0	0	0	0	0.272	0.100	0.065	0.060	0	0	0	0.041
16	2034	0	0	0	0	0	0.295	0.119	0.060	0.064	0	0	0	0.045
17	2035	0	0	0	0	0	0.233	0.099	0.065	0.059	0	0	0	0.038
18	2036	0	0	0	0	0	0.287	0.113	0.070	0.059	0	0	0	0.044
19	2037	0	0	0	0	0	0.253	0.099	0.064	0.064	0	0	0	0.040
20	2038	0	0	0	0	0	0.291	0.114	0.060	0.064	0	0	0	0.044
21	2039	0	0	0	0	0	0.253	0.092	0.061	0.064	0	0	0	0.039
22	2040	0	0	0	0	0	0.256	0.101	0.065	0.059	0	0	0	0.040

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-6. Simulated Baseline Outflow of Patch Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0.040	0.790	0.297	0.234	0.204	0.000	0	0	0.130
1	2019	0	0	0	0	0.035	0.796	0.298	0.221	0.250	0.000	0	0	0.133
2	2020	0	0	0	0	0.045	0.798	0.363	0.234	0.251	0.000	0	0	0.141
3	2021	0	0	0	0	0.040	0.985	0.296	0.220	0.203	0.000	0	0	0.145
4	2022	0	0	0	0	0.042	0.785	0.316	0.223	0.202	0.000	0	0	0.131
5	2023	0	0	0	0	0.044	0.826	0.293	0.233	0.251	0.000	0	0	0.137
6	2024	0	0	0	0	0.048	0.823	0.316	0.228	0.202	0.000	0	0	0.135
7	2025	0	0	0	0	0.045	0.854	0.295	0.223	0.252	0.000	0	0	0.139
8	2026	0	0	0	0	0.045	0.843	0.295	0.227	0.202	0.000	0	0	0.134
9	2027	0	0	0	0	0.023	0.784	0.317	0.221	0.252	0.000	0	0	0.133
10	2028	0	0	0	0	0.050	0.873	0.295	0.227	0.254	0.001	0	0	0.141
11	2029	0	0	0	0	0.047	0.789	0.348	0.217	0.201	0.000	0	0	0.133
12	2030	0	0	0	0	0.066	0.850	0.294	0.224	0.254	0.001	0	0	0.140
13	2031	0	0	0	0	0.046	0.838	0.285	0.256	0.253	0.000	0	0	0.140
14	2032	0	0	0	0	0.070	0.867	0.294	0.218	0.201	0.000	0	0	0.137
15	2033	0	0	0	0	0.052	0.899	0.293	0.213	0.200	0.000	0	0	0.138
16	2034	0	0	0	0	0.069	0.890	0.293	0.207	0.200	0.000	0	0	0.138
17	2035	0	0	0	0	0.047	0.823	0.283	0.222	0.227	0.001	0	0	0.133
18	2036	0	0	0	0	0.086	0.913	0.293	0.222	0.255	0.000	0	0	0.147
19	2037	0	0	0	0	0.071	0.885	0.292	0.218	0.198	0.001	0	0	0.138
20	2038	0	0	0	0	0.052	0.907	0.281	0.222	0.227	0.001	0	0	0.140
21	2039	0	0	0	0	0.062	0.840	0.314	0.224	0.198	0.001	0	0	0.136
22	2040	0	0	0	0	0.078	0.885	0.287	0.219	0.203	0.001	0	0	0.139

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-7. Simulated Baseline Outflow of PO Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.552	0.250	0.138	0.125	0	0	0	0.089
1	2019	0	0	0	0	0	0.555	0.251	0.138	0.125	0	0	0	0.089
2	2020	0	0	0	0	0	0.557	0.251	0.138	0.125	0	0	0	0.089
3	2021	0	0	0	0	0	0.558	0.251	0.138	0.125	0	0	0	0.089
4	2022	0	0	0	0	0	0.559	0.250	0.137	0.125	0	0	0	0.089
5	2023	0	0	0	0	0	0.561	0.250	0.137	0.125	0	0	0	0.089
6	2024	0	0	0	0	0	0.563	0.250	0.137	0.125	0	0	0	0.089
7	2025	0	0	0	0	0	0.564	0.250	0.137	0.125	0	0	0	0.090
8	2026	0	0	0	0	0	0.569	0.248	0.136	0.125	0	0	0	0.090
9	2027	0	0	0	0	0	0.570	0.247	0.136	0.125	0	0	0	0.090
10	2028	0	0	0	0	0	0.574	0.247	0.136	0.125	0	0	0	0.090
11	2029	0	0	0	0	0	0.575	0.247	0.136	0.125	0	0	0	0.090
12	2030	0	0	0	0	0	0.577	0.247	0.136	0.124	0	0	0	0.090
13	2031	0	0	0	0	0	0.578	0.247	0.136	0.124	0	0	0	0.090
14	2032	0	0	0	0	0	0.580	0.247	0.135	0.124	0	0	0	0.090
15	2033	0	0	0	0	0	0.581	0.246	0.135	0.124	0	0	0	0.090
16	2034	0	0	0	0	0	0.583	0.246	0.135	0.124	0	0	0	0.090
17	2035	0	0	0	0	0	0.584	0.246	0.135	0.124	0	0	0	0.091
18	2036	0	0	0	0	0	0.586	0.246	0.135	0.124	0	0	0	0.091
19	2037	0	0	0	0	0	0.587	0.246	0.135	0.124	0	0	0	0.091
20	2038	0	0	0	0	0	0.589	0.246	0.135	0.124	0	0	0	0.091
21	2039	0	0	0	0	0	0.591	0.245	0.135	0.124	0	0	0	0.091
22	2040	0	0	0	0	0	0.593	0.245	0.135	0.124	0	0	0	0.091

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-8. Simulated Baseline Outflow of PO Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.297	0.107	0.066	0.080	0	0	0	0.046
1	2019	0	0	0	0	0	0.331	0.125	0.078	0.080	0	0	0	0.051
2	2020	0	0	0	0	0	0.371	0.123	0.078	0.068	0	0	0	0.053
3	2021	0	0	0	0	0	0.306	0.110	0.070	0.079	0	0	0	0.047
4	2022	0	0	0	0	0	0.332	0.110	0.070	0.079	0	0	0	0.049
5	2023	0	0	0	0	0	0.308	0.122	0.077	0.067	0	0	0	0.048
6	2024	0	0	0	0	0	0.333	0.115	0.070	0.068	0	0	0	0.049
7	2025	0	0	0	0	0	0.323	0.122	0.083	0.068	0	0	0	0.050
8	2026	0	0	0	0	0	0.315	0.109	0.065	0.081	0	0	0	0.047
9	2027	0	0	0	0	0	0.332	0.124	0.069	0.067	0	0	0	0.049
10	2028	0	0	0	0	0	0.337	0.105	0.076	0.068	0	0	0	0.049
11	2029	0	0	0	0	0	0.333	0.123	0.078	0.079	0	0	0	0.051
12	2030	0	0	0	0	0	0.333	0.109	0.069	0.067	0	0	0	0.048
13	2031	0	0	0	0	0	0.340	0.115	0.072	0.079	0	0	0	0.050
14	2032	0	0	0	0	0	0.334	0.114	0.070	0.067	0	0	0	0.049
15	2033	0	0	0	0	0	0.346	0.123	0.072	0.065	0	0	0	0.050
16	2034	0	0	0	0	0	0.378	0.122	0.068	0.079	0	0	0	0.054
17	2035	0	0	0	0	0	0.322	0.101	0.076	0.066	0	0	0	0.047
18	2036	0	0	0	0	0	0.376	0.123	0.078	0.073	0	0	0	0.054
19	2037	0	0	0	0	0	0.339	0.108	0.069	0.078	0	0	0	0.049
20	2038	0	0	0	0	0	0.379	0.124	0.068	0.078	0	0	0	0.054
21	2039	0	0	0	0	0	0.333	0.108	0.068	0.079	0	0	0	0.049
22	2040	0	0	0	0	0	0.349	0.118	0.074	0.066	0	0	0	0.050

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-9. Simulated Baseline Outflow of PO Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0.078	0.956	0.339	0.287	0.247	0	0	0	0.159
1	2019	0	0	0	0	0.071	0.969	0.339	0.286	0.288	0	0	0	0.163
2	2020	0	0	0	0	0.092	0.990	0.386	0.291	0.284	0	0	0	0.170
3	2021	0	0	0	0	0.083	1.155	0.327	0.258	0.235	0	0	0	0.171
4	2022	0	0	0	0	0.088	0.991	0.332	0.289	0.247	0	0	0	0.162
5	2023	0	0	0	0	0.092	0.998	0.329	0.286	0.287	0	0	0	0.166
6	2024	0	0	0	0	0.104	1.033	0.344	0.280	0.255	0	0	0	0.168
7	2025	0	0	0	0	0.097	1.030	0.327	0.289	0.248	0	0	0	0.166
8	2026	0	0	0	0	0.098	1.022	0.331	0.280	0.284	0	0	0	0.167
9	2027	0	0	0	0	0.049	0.981	0.355	0.282	0.248	0	0	0	0.159
10	2028	0	0	0	0	0.146	1.126	0.327	0.291	0.285	0	0	0	0.181
11	2029	0	0	0	0	0.100	0.972	0.371	0.252	0.233	0	0	0	0.160
12	2030	0	0	0	0	0.128	1.047	0.329	0.278	0.248	0	0	0	0.169
13	2031	0	0	0	0	0.101	1.052	0.325	0.304	0.298	0	0	0	0.173
14	2032	0	0	0	0	0.157	1.082	0.327	0.292	0.257	0	0	0	0.176
15	2033	0	0	0	0	0.110	1.083	0.333	0.255	0.249	0	0	0	0.169
16	2034	0	0	0	0	0.156	1.078	0.341	0.249	0.232	0	0	0	0.171
17	2035	0	0	0	0	0.073	1.032	0.353	0.253	0.249	0	0	0	0.163
18	2036	0	0	0	0	0.160	1.097	0.328	0.251	0.272	0	0	0	0.175
19	2037	0	0	0	0	0.113	1.100	0.327	0.293	0.250	0	0	0	0.173
20	2038	0	0	0	0	0.105	1.095	0.325	0.249	0.286	0	0	0	0.171
21	2039	0	0	0	0	0.104	1.051	0.352	0.271	0.269	0	0	0	0.170
22	2040	0	0	0	0	0.122	1.091	0.328	0.250	0.259	0	0	0	0.171

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-10. Simulated Baseline Outflow of Ogama Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	1.776	0.476	0.314	0.291	0.000	0	0	0.237
1	2019	0	0	0	0	0	1.782	0.476	0.314	0.292	0.001	0	0	0.238
2	2020	0	0	0	0	0	1.787	0.477	0.314	0.292	0.001	0	0	0.238
3	2021	0	0	0	0	0	1.789	0.476	0.314	0.292	0.001	0	0	0.238
4	2022	0	0	0	0	0	1.793	0.476	0.315	0.292	0.001	0	0	0.239
5	2023	0	0	0	0	0	1.797	0.477	0.315	0.293	0.001	0	0	0.239
6	2024	0	0	0	0	0	1.802	0.477	0.315	0.293	0.001	0	0	0.239
7	2025	0	0	0	0	0	1.804	0.477	0.315	0.293	0.001	0	0	0.240
8	2026	0	0	0	0	0	1.813	0.475	0.314	0.293	0.001	0	0	0.240
9	2027	0	0	0	0	0	1.816	0.475	0.314	0.293	0.001	0	0	0.240
10	2028	0	0	0	0	0.001	1.825	0.475	0.314	0.293	0.001	0	0	0.241
11	2029	0	0	0	0	0.001	1.827	0.475	0.314	0.293	0.001	0	0	0.241
12	2030	0	0	0	0	0.001	1.831	0.475	0.314	0.294	0.001	0	0	0.242
13	2031	0	0	0	0	0.001	1.834	0.475	0.315	0.294	0.001	0	0	0.242
14	2032	0	0	0	0	0.001	1.840	0.475	0.315	0.294	0.001	0	0	0.243
15	2033	0	0	0	0	0.001	1.843	0.475	0.315	0.294	0.001	0	0	0.243
16	2034	0	0	0	0	0.001	1.846	0.475	0.315	0.295	0.001	0	0	0.243
17	2035	0	0	0	0	0.001	1.850	0.475	0.315	0.295	0.001	0	0	0.244
18	2036	0	0	0	0	0.001	1.856	0.476	0.315	0.295	0.001	0	0	0.244
19	2037	0	0	0	0	0.001	1.858	0.476	0.315	0.295	0.001	0	0	0.244
20	2038	0	0	0	0	0.001	1.862	0.476	0.315	0.295	0.001	0	0	0.245
21	2039	0	0	0	0	0.001	1.867	0.476	0.316	0.296	0.001	0	0	0.245
22	2040	0	0	0	0	0.001	1.873	0.476	0.316	0.296	0.001	0	0	0.246

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-11. Simulated Baseline Outflow of Ogama Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.799	0.204	0.154	0.156	0	0	0	0.109
1	2019	0	0	0	0	0	0.840	0.213	0.157	0.168	0	0	0	0.114
2	2020	0	0	0	0	0	0.788	0.230	0.154	0.133	0	0	0	0.108
3	2021	0	0	0	0	0	0.784	0.210	0.184	0.155	0	0	0	0.111
4	2022	0	0	0	0	0	0.827	0.213	0.154	0.159	0	0	0	0.112
5	2023	0	0	0	0	0	0.799	0.206	0.148	0.155	0	0	0	0.108
6	2024	0	0	0	0	0	0.740	0.211	0.154	0.159	0	0	0	0.105
7	2025	0	0	0	0	0	0.784	0.229	0.196	0.154	0	0	0	0.113
8	2026	0	0	0	0	0	0.778	0.210	0.151	0.170	0	0	0	0.109
9	2027	0	0	0	0	0	0.791	0.203	0.148	0.155	0	0	0	0.107
10	2028	0	0	0	0	0	0.785	0.211	0.153	0.154	0	0	0	0.108
11	2029	0	0	0	0	0	0.782	0.213	0.184	0.154	0	0	0	0.111
12	2030	0	0	0	0	0	0.778	0.213	0.151	0.159	0	0	0	0.108
13	2031	0	0	0	0	0	0.787	0.206	0.148	0.154	0	0	0	0.107
14	2032	0	0	0	0	0.000	0.758	0.214	0.151	0.159	0	0	0	0.106
15	2033	0	0	0	0	0	0.755	0.210	0.152	0.130	0	0	0	0.104
16	2034	0	0	0	0	0	0.779	0.213	0.147	0.188	0	0	0	0.110
17	2035	0	0	0	0	0	0.745	0.209	0.146	0.154	0	0	0	0.104
18	2036	0	0	0	0	0	0.740	0.212	0.170	0.153	0	0	0	0.106
19	2037	0	0	0	0	0.000	0.785	0.213	0.148	0.159	0	0	0	0.108
20	2038	0	0	0	0	0	0.734	0.213	0.154	0.153	0	0	0	0.104
21	2039	0	0	0	0	0.000	0.731	0.206	0.145	0.168	0	0	0	0.104
22	2040	0	0	0	0	0.004	0.713	0.232	0.154	0.159	0	0	0	0.105

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-12. Simulated Baseline Outflow of Ogama Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	1.003	2.459	0.721	0.741	0.591	0.146	0	0	0.472
1	2019	0	0	0	0	0.974	2.593	0.732	0.730	0.628	0.150	0	0	0.484
2	2020	0	0	0	0	1.080	2.510	0.905	0.771	0.629	0.133	0	0	0.504
3	2021	0	0	0	0	0.959	2.593	0.696	0.774	0.557	0.152	0	0	0.478
4	2022	0	0	0	0	1.100	2.608	0.714	0.741	0.657	0.148	0	0	0.498
5	2023	0	0	0	0	1.020	2.495	0.818	0.805	0.558	0.164	0	0	0.489
6	2024	0	0	0	0	1.247	2.454	0.717	0.743	0.559	0.154	0	0	0.491
7	2025	0	0	0	0	1.076	2.387	0.856	0.756	0.633	0.159	0	0	0.490
8	2026	0	0	0	0	1.106	2.536	0.715	0.770	0.558	0.151	0	0	0.487
9	2027	0	0	0	0	1.014	2.541	0.823	0.732	0.635	0.172	0	0	0.494
10	2028	0	0	0	0	1.305	2.415	0.716	0.800	0.637	0.155	0	0	0.504
11	2029	0	0	0	0	1.249	2.553	0.861	0.694	0.560	0.157	0	0	0.507
12	2030	0	0	0	0	1.237	2.402	0.715	0.771	0.664	0.162	0	0	0.497
13	2031	0	0	0	0	1.198	2.362	0.779	0.734	0.639	0.175	0	0	0.492
14	2032	0	0	0	0	1.382	2.406	0.866	0.746	0.640	0.173	0	0	0.519
15	2033	0	0	0	0	1.264	2.293	0.702	0.744	0.561	0.170	0	0	0.479
16	2034	0	0	0	0	1.379	2.540	0.656	0.699	0.527	0.156	0	0	0.498
17	2035	0	0	0	0	1.066	2.354	0.731	0.745	0.602	0.200	0	0	0.476
18	2036	0	0	0	0	1.392	2.511	0.714	0.742	0.541	0.176	0	0	0.508
19	2037	0	0	0	0	1.265	2.205	0.872	0.717	0.645	0.169	0	0	0.491
20	2038	0	0	0	0	1.218	2.501	0.713	0.751	0.562	0.159	0	0	0.493
21	2039	0	0	0	0	1.259	2.500	0.733	0.739	0.563	0.168	0	0	0.498
22	2040	0	0	0	0	1.276	2.374	0.877	0.746	0.648	0.171	0	0	0.509

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-13. Simulated Baseline Outflow of Doris Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	1.943	0.638	0.344	0.345	0.196	0.005	0	0.288
1	2019	0	0	0	0	0	1.949	0.638	0.344	0.345	0.197	0.006	0	0.289
2	2020	0	0	0	0	0	1.956	0.638	0.344	0.345	0.197	0.006	0	0.290
3	2021	0	0	0	0	0	1.959	0.637	0.344	0.345	0.197	0.006	0	0.290
4	2022	0	0	0	0	0	1.965	0.637	0.344	0.346	0.197	0.008	0	0.291
5	2023	0	0	0	0	0	1.968	0.636	0.344	0.346	0.197	0.008	0	0.291
6	2024	0	0	0	0	0	1.975	0.636	0.344	0.346	0.198	0.008	0	0.291
7	2025	0	0	0	0	0	1.978	0.635	0.344	0.346	0.198	0.008	0	0.292
8	2026	0	0	0	0	0	1.991	0.630	0.343	0.346	0.198	0.008	0	0.292
9	2027	0	0	0	0	0	1.995	0.629	0.342	0.346	0.198	0.008	0	0.292
10	2028	0	0	0	0	0.005	2.003	0.628	0.342	0.346	0.199	0.011	0	0.294
11	2029	0	0	0	0	0.005	2.000	0.631	0.342	0.346	0.199	0.015	0	0.294
12	2030	0	0	0	0	0.004	2.001	0.630	0.342	0.346	0.199	0.018	0	0.294
13	2031	0	0	0	0	0.004	2.005	0.629	0.342	0.347	0.199	0.020	0	0.295
14	2032	0	0	0	0	0.004	2.010	0.629	0.342	0.347	0.199	0.020	0	0.295
15	2033	0	0	0	0	0.004	2.013	0.628	0.342	0.347	0.200	0.020	0	0.295
16	2034	0	0	0	0	0.004	2.018	0.628	0.342	0.347	0.200	0.022	0	0.296
17	2035	0	0	0	0	0.003	2.022	0.627	0.342	0.347	0.200	0.022	0	0.296
18	2036	0	0	0	0	0.003	2.029	0.627	0.342	0.348	0.201	0.022	0	0.297
19	2037	0	0	0	0	0.003	2.032	0.626	0.342	0.348	0.201	0.022	0	0.297
20	2038	0	0	0	0	0.003	2.038	0.625	0.342	0.348	0.201	0.022	0	0.297
21	2039	0	0	0	0	0.003	2.044	0.625	0.342	0.348	0.201	0.024	0	0.298
22	2040	0	0	0	0	0.003	2.050	0.625	0.342	0.349	0.202	0.024	0	0.299

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-14. Simulated Baseline Outflow of Doris Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.948	0.251	0.150	0.162	0.129	0	0	0.136
1	2019	0	0	0	0	0	0.921	0.251	0.165	0.201	0.119	0	0	0.138
2	2020	0	0	0	0	0	0.933	0.250	0.150	0.161	0.120	0	0	0.134
3	2021	0	0	0	0	0	0.893	0.248	0.149	0.183	0.123	0	0	0.133
4	2022	0	0	0	0	0	0.914	0.237	0.160	0.219	0.130	0	0	0.138
5	2023	0	0	0	0	0	0.953	0.251	0.153	0.160	0.133	0	0	0.137
6	2024	0	0	0	0	0	0.836	0.238	0.148	0.160	0.121	0	0	0.125
7	2025	0	0	0	0	0	0.920	0.241	0.192	0.160	0.120	0	0	0.136
8	2026	0	0	0	0	0	0.797	0.245	0.148	0.181	0.138	0	0	0.126
9	2027	0	0	0	0	0	0.917	0.237	0.163	0.159	0.120	0	0	0.132
10	2028	0	0	0	0	0	0.892	0.235	0.159	0.181	0.121	0	0	0.132
11	2029	0	0	0	0	0	0.821	0.235	0.160	0.181	0.137	0	0	0.128
12	2030	0	0	0	0	0	0.817	0.229	0.148	0.170	0.138	0	0	0.125
13	2031	0	0	0	0	0	0.859	0.225	0.151	0.158	0.138	0	0	0.127
14	2032	0	0	0	0	0.001	0.845	0.237	0.158	0.158	0.122	0	0	0.126
15	2033	0	0	0	0	0	0.784	0.227	0.148	0.158	0.137	0	0	0.121
16	2034	0	0	0	0	0	0.868	0.236	0.143	0.227	0.141	0	0	0.134
17	2035	0	0	0	0	0	0.791	0.223	0.157	0.158	0.121	0	0	0.120
18	2036	0	0	0	0	0	0.796	0.247	0.156	0.158	0.136	0	0	0.124
19	2037	0	0	0	0	0.004	0.794	0.234	0.154	0.168	0.139	0	0	0.124
20	2038	0	0	0	0	0	0.774	0.235	0.147	0.179	0.125	0	0	0.121
21	2039	0	0	0	0	0.003	0.770	0.210	0.150	0.199	0.142	0	0	0.123
22	2040	0	0	0	0	0.005	0.752	0.220	0.150	0.157	0.136	0	0	0.118

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-15. Simulated Baseline Outflow of Doris Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	1.405	2.746	0.952	0.926	0.740	0.383	0.123	0	0.608
1	2019	0	0	0	0	0.929	2.794	0.954	0.926	0.802	0.412	0.130	0	0.580
2	2020	0	0	0	0	1.245	2.807	0.965	0.960	0.803	0.446	0.116	0	0.613
3	2021	0	0	0	0	0.906	2.909	0.861	0.897	0.754	0.357	0.120	0	0.568
4	2022	0	0	0	0	0.937	2.968	0.927	0.925	0.804	0.358	0.131	0	0.588
5	2023	0	0	0	0.006	0.915	2.766	0.868	0.955	0.807	0.426	0.128	0	0.573
6	2024	0	0	0	0	1.362	2.864	0.955	0.893	0.794	0.412	0.121	0	0.618
7	2025	0	0	0	0	1.365	2.774	0.906	0.964	0.806	0.360	0.126	0	0.610
8	2026	0	0	0	0.009	1.222	2.940	0.918	0.929	0.755	0.359	0.138	0	0.607
9	2027	0	0	0	0	1.040	2.779	0.921	0.930	0.756	0.483	0.126	0	0.588
10	2028	0	0	0	0.012	1.391	2.974	0.915	0.986	0.810	0.369	0.123	0	0.633
11	2029	0	0	0	0	1.156	2.640	0.915	0.824	0.758	0.416	0.131	0	0.571
12	2030	0	0	0	0.007	1.400	2.972	0.920	0.931	0.811	0.364	0.127	0	0.629
13	2031	0	0	0	0.007	1.120	2.798	0.902	0.931	0.816	0.433	0.147	0	0.597
14	2032	0	0	0	0.012	1.418	2.895	0.914	0.973	0.804	0.428	0.124	0	0.632
15	2033	0	0	0	0.007	1.203	2.718	0.895	0.974	0.760	0.401	0.137	0	0.593
16	2034	0	0	0	0.007	1.422	2.897	0.889	0.828	0.760	0.366	0.133	0	0.610
17	2035	0	0	0	0.007	1.294	2.810	0.901	0.934	0.818	0.519	0.133	0	0.619
18	2036	0	0	0	0.010	1.374	2.862	0.879	0.935	0.814	0.432	0.124	0	0.620
19	2037	0	0	0	0.008	1.432	2.798	0.918	0.957	0.820	0.376	0.143	0	0.623
20	2038	0	0	0	0.013	1.238	2.859	0.881	0.936	0.762	0.369	0.154	0	0.602
21	2039	0	0	0	0.003	1.348	2.811	0.900	0.938	0.762	0.371	0.138	0	0.607
22	2040	0	0	0	0.010	1.380	2.883	0.922	0.985	0.814	0.379	0.130	0	0.627

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-16. Simulated Baseline Outflow of Little Roberts Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	7.091	1.802	1.159	1.166	0.612	0.011	0	0.983
1	2019	0	0	0	0	0	7.110	1.804	1.160	1.167	0.615	0.011	0	0.985
2	2020	0	0	0	0	0	7.130	1.805	1.161	1.169	0.616	0.011	0	0.987
3	2021	0	0	0	0	0	7.141	1.804	1.162	1.170	0.617	0.011	0	0.988
4	2022	0	0	0	0	0	7.157	1.804	1.163	1.171	0.618	0.016	0	0.990
5	2023	0	0	0	0	0	7.168	1.803	1.163	1.172	0.619	0.016	0	0.991
6	2024	0	0	0	0	0	7.191	1.803	1.165	1.174	0.619	0.016	0	0.994
7	2025	0	0	0	0	0	7.199	1.803	1.165	1.175	0.620	0.016	0	0.994
8	2026	0	0	0	0	0	7.234	1.794	1.163	1.175	0.621	0.016	0	0.996
9	2027	0	0	0	0	0	7.245	1.794	1.164	1.176	0.621	0.016	0	0.997
10	2028	0	0	0	0	0.048	7.234	1.792	1.165	1.177	0.625	0.021	0	1.001
11	2029	0	0	0	0	0.047	7.230	1.798	1.166	1.178	0.626	0.031	0	1.002
12	2030	0	0	0	0	0.046	7.238	1.798	1.166	1.180	0.627	0.035	0	1.004
13	2031	0	0	0	0	0.046	7.253	1.797	1.167	1.181	0.628	0.040	0	1.005
14	2032	0	0	0	0	0.046	7.269	1.798	1.168	1.182	0.628	0.040	0	1.007
15	2033	0	0	0	0	0.046	7.280	1.797	1.169	1.184	0.629	0.040	0	1.008
16	2034	0	0	0	0	0.046	7.296	1.797	1.170	1.185	0.630	0.044	0	1.010
17	2035	0	0	0	0	0.045	7.311	1.797	1.170	1.186	0.631	0.044	0	1.011
18	2036	0	0	0	0	0.045	7.334	1.798	1.172	1.188	0.635	0.044	0	1.014
19	2037	0	0	0	0	0.046	7.342	1.797	1.172	1.189	0.635	0.044	0	1.015
20	2038	0	0	0	0	0.050	7.353	1.796	1.173	1.190	0.637	0.044	0	1.016
21	2039	0	0	0	0	0.058	7.365	1.797	1.174	1.191	0.637	0.048	0	1.019
22	2040	0	0	0	0	0.065	7.377	1.798	1.175	1.193	0.638	0.048	0	1.021

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-17. Simulated Baseline Outflow of Little Roberts Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	2.209	0.728	0.748	0.621	0.396	0	0	0.392
1	2019	0	0	0	0	0	2.111	0.780	0.615	0.655	0.372	0	0	0.377
2	2020	0	0	0	0	0	2.159	0.747	0.581	0.601	0.383	0	0	0.372
3	2021	0	0	0	0	0	2.057	0.721	0.734	0.620	0.360	0	0	0.374
4	2022	0	0	0	0	0	2.111	0.743	0.609	0.649	0.395	0	0	0.375
5	2023	0	0	0	0	0	2.267	0.831	0.635	0.628	0.388	0	0	0.395
6	2024	0	0	0	0	0	1.944	0.709	0.573	0.626	0.393	0	0	0.353
7	2025	0	0	0	0	0	2.094	0.836	0.739	0.630	0.388	0	0	0.391
8	2026	0	0	0	0	0	1.973	0.742	0.600	0.630	0.404	0	0	0.362
9	2027	0	0	0	0	0	2.106	0.708	0.598	0.628	0.383	0	0	0.368
10	2028	0	0	0	0	0	2.063	0.728	0.652	0.621	0.389	0	0	0.371
11	2029	0	0	0	0	0	1.916	0.706	0.737	0.631	0.389	0	0	0.365
12	2030	0	0	0	0	0	1.968	0.824	0.739	0.621	0.450	0	0	0.384
13	2031	0	0	0	0	0	1.969	0.832	0.594	0.631	0.404	0	0	0.369
14	2032	0	0	0	0	0	1.848	0.710	0.562	0.620	0.375	0	0	0.343
15	2033	0	0	0	0	0	1.911	0.825	0.650	0.601	0.375	0	0	0.364
16	2034	0	0	0	0	0	1.894	0.709	0.590	0.654	0.407	0	0	0.354
17	2035	0	0	0	0	0	1.966	0.771	0.589	0.627	0.452	0	0	0.367
18	2036	0	0	0	0	0	1.823	0.828	0.739	0.619	0.402	0	0	0.368
19	2037	0	0	0	0	0.050	1.908	0.708	0.556	0.655	0.454	0	0	0.361
20	2038	0	0	0	0	0	1.832	0.747	0.737	0.619	0.406	0	0	0.362
21	2039	0	0	0	0	0.055	1.830	0.710	0.586	0.627	0.462	0	0	0.356
22	2040	0	0	0	0	0.436	1.788	0.751	0.746	0.657	0.465	0	0	0.405

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-18. Simulated Baseline Outflow of Little Roberts Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	6.325	8.665	2.762	3.065	2.364	1.786	0.246	0	2.110
1	2019	0	0	0	0	4.447	8.989	2.905	3.113	2.165	1.994	0.260	0	1.996
2	2020	0	0	0	0	5.391	8.688	3.632	3.080	2.371	1.855	0.231	0	2.113
3	2021	0	0	0	0	4.506	8.804	2.734	3.034	2.093	1.681	0.241	0	1.931
4	2022	0	0	0	0	5.496	8.908	2.718	3.286	2.105	1.684	0.262	0	2.046
5	2023	0	0	0	0.012	4.682	8.839	3.287	3.195	2.173	2.031	0.274	0	2.049
6	2024	0	0	0	0	5.858	8.561	2.724	3.071	2.380	1.891	0.241	0	2.069
7	2025	0	0	0	0	4.951	7.955	3.297	3.051	2.110	1.694	0.252	0	1.952
8	2026	0	0	0	0.021	5.074	8.835	2.719	3.065	2.113	1.692	0.276	0	1.990
9	2027	0	0	0	0	4.932	8.858	3.308	3.137	2.490	2.053	0.253	0	2.094
10	2028	0	0	0	0.060	6.362	8.275	2.759	3.313	2.121	1.717	0.246	0	2.081
11	2029	0	0	0	0	5.664	8.758	3.318	2.527	2.108	1.908	0.282	0	2.056
12	2030	0	0	0	0.060	5.645	8.187	2.739	3.072	2.126	1.711	0.283	0	1.994
13	2031	0	0	0	0.060	5.339	8.530	2.834	2.990	2.505	2.063	0.319	0	2.061
14	2032	0	0	0	0.109	5.623	8.148	3.337	3.083	2.133	1.938	0.248	0	2.062
15	2033	0	0	0	0.060	5.694	8.048	2.745	3.005	2.136	1.837	0.309	0	1.995
16	2034	0	0	0	0.060	5.809	8.565	2.430	2.751	2.118	1.719	0.285	0	1.986
17	2035	0	0	0	0.060	5.615	8.438	2.827	3.165	2.143	2.116	0.286	0	2.064
18	2036	0	0	0	0.065	6.067	8.137	2.754	3.003	2.419	1.953	0.248	0	2.063
19	2037	0	0	0	0.136	5.843	7.924	3.357	2.969	2.528	1.747	0.327	0	2.079
20	2038	0	0	0	0.145	5.783	8.272	2.754	3.111	2.152	1.732	0.350	0	2.034
21	2039	0	0	0	0.085	5.746	8.449	2.833	2.978	2.536	1.742	0.288	0	2.063
22	2040	0	0	0	0.067	5.951	7.824	3.376	3.123	2.160	1.758	0.261	0	2.054

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-19. Simulated Baseline Outflow of Windy Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.183	0.079	0.027	0.025	0	0	0	0.026
1	2019	0	0	0	0	0	0.185	0.079	0.027	0.025	0	0	0	0.026
2	2020	0	0	0	0	0	0.186	0.079	0.027	0.025	0	0	0	0.026
3	2021	0	0	0	0	0	0.186	0.079	0.027	0.025	0	0	0	0.026
4	2022	0	0	0	0	0	0.186	0.079	0.027	0.025	0	0	0	0.026
5	2023	0	0	0	0	0	0.187	0.079	0.027	0.025	0	0	0	0.026
6	2024	0	0	0	0	0	0.187	0.078	0.027	0.025	0	0	0	0.026
7	2025	0	0	0	0	0	0.188	0.078	0.027	0.025	0	0	0	0.026
8	2026	0	0	0	0	0	0.189	0.077	0.026	0.024	0	0	0	0.026
9	2027	0	0	0	0	0	0.190	0.077	0.026	0.024	0	0	0	0.026
10	2028	0	0	0	0	0	0.191	0.077	0.026	0.024	0	0	0	0.026
11	2029	0	0	0	0	0	0.191	0.077	0.026	0.024	0	0	0	0.026
12	2030	0	0	0	0	0	0.192	0.077	0.026	0.024	0	0	0	0.026
13	2031	0	0	0	0	0	0.192	0.077	0.026	0.024	0	0	0	0.026
14	2032	0	0	0	0	0	0.193	0.076	0.025	0.024	0	0	0	0.026
15	2033	0	0	0	0	0	0.193	0.076	0.025	0.024	0	0	0	0.026
16	2034	0	0	0	0	0	0.194	0.076	0.025	0.024	0	0	0	0.026
17	2035	0	0	0	0	0	0.194	0.076	0.025	0.024	0	0	0	0.026
18	2036	0	0	0	0	0	0.195	0.076	0.025	0.023	0	0	0	0.026
19	2037	0	0	0	0	0	0.195	0.076	0.025	0.023	0	0	0	0.026
20	2038	0	0	0	0	0	0.196	0.075	0.025	0.023	0	0	0	0.026
21	2039	0	0	0	0	0	0.196	0.075	0.025	0.023	0	0	0	0.027
22	2040	0	0	0	0	0	0.197	0.075	0.025	0.023	0	0	0	0.027

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-20. Simulated Baseline Outflow of Windy Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.084	0.019	0.003	0.005	0	0	0	0.009
1	2019	0	0	0	0	0	0.089	0.021	0.005	0.005	0	0	0	0.010
2	2020	0	0	0	0	0	0.105	0.022	0.003	0.005	0	0	0	0.011
3	2021	0	0	0	0	0	0.088	0.019	0.003	0.005	0	0	0	0.010
4	2022	0	0	0	0	0	0.089	0.020	0.004	0.005	0	0	0	0.010
5	2023	0	0	0	0	0	0.089	0.019	0.003	0.004	0	0	0	0.010
6	2024	0	0	0	0	0	0.093	0.019	0.002	0.004	0	0	0	0.010
7	2025	0	0	0	0	0	0.090	0.021	0.006	0.004	0	0	0	0.010
8	2026	0	0	0	0	0	0.088	0.018	0.003	0.005	0	0	0	0.009
9	2027	0	0	0	0	0	0.088	0.020	0.004	0.004	0	0	0	0.010
10	2028	0	0	0	0	0	0.101	0.018	0.004	0.004	0	0	0	0.011
11	2029	0	0	0	0	0	0.088	0.023	0.004	0.004	0	0	0	0.010
12	2030	0	0	0	0	0	0.088	0.018	0.003	0.004	0	0	0	0.009
13	2031	0	0	0	0	0	0.102	0.016	0.003	0.004	0	0	0	0.010
14	2032	0	0	0	0	0	0.089	0.017	0.003	0.004	0	0	0	0.009
15	2033	0	0	0	0	0	0.088	0.016	0.003	0.003	0	0	0	0.009
16	2034	0	0	0	0	0	0.106	0.022	0.002	0.004	0	0	0	0.011
17	2035	0	0	0	0	0	0.085	0.016	0.003	0.003	0	0	0	0.009
18	2036	0	0	0	0	0	0.102	0.019	0.004	0.003	0	0	0	0.011
19	2037	0	0	0	0	0	0.092	0.016	0.003	0.004	0	0	0	0.009
20	2038	0	0	0	0	0	0.104	0.019	0.003	0.004	0	0	0	0.011
21	2039	0	0	0	0	0	0.087	0.011	0.003	0.004	0	0	0	0.009
22	2040	0	0	0	0	0	0.097	0.016	0.003	0.003	0	0	0	0.010

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-21. Simulated Baseline Outflow of Windy Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.357	0.114	0.087	0.082	0	0	0	0.053
1	2019	0	0	0	0	0	0.361	0.119	0.081	0.108	0	0	0	0.056
2	2020	0	0	0	0	0	0.368	0.147	0.087	0.108	0	0	0	0.059
3	2021	0	0	0	0	0	0.457	0.119	0.081	0.081	0	0	0	0.061
4	2022	0	0	0	0	0	0.362	0.122	0.083	0.081	0	0	0	0.054
5	2023	0	0	0	0	0	0.374	0.114	0.086	0.108	0	0	0	0.057
6	2024	0	0	0	0	0	0.380	0.122	0.084	0.081	0	0	0	0.055
7	2025	0	0	0	0	0	0.386	0.119	0.083	0.108	0	0	0	0.058
8	2026	0	0	0	0	0	0.382	0.119	0.083	0.081	0	0	0	0.055
9	2027	0	0	0	0	0	0.351	0.123	0.080	0.109	0	0	0	0.055
10	2028	0	0	0	0	0	0.396	0.120	0.083	0.110	0	0	0	0.059
11	2029	0	0	0	0	0	0.348	0.139	0.078	0.080	0	0	0	0.054
12	2030	0	0	0	0	0	0.388	0.119	0.081	0.110	0	0	0	0.058
13	2031	0	0	0	0	0	0.386	0.106	0.099	0.109	0	0	0	0.058
14	2032	0	0	0	0	0	0.400	0.120	0.079	0.081	0	0	0	0.056
15	2033	0	0	0	0	0	0.408	0.119	0.072	0.079	0	0	0	0.056
16	2034	0	0	0	0	0	0.405	0.119	0.072	0.079	0	0	0	0.056
17	2035	0	0	0	0	0	0.370	0.105	0.081	0.094	0	0	0	0.054
18	2036	0	0	0	0	0	0.417	0.119	0.081	0.110	0	0	0	0.060
19	2037	0	0	0	0	0	0.409	0.118	0.078	0.078	0	0	0	0.057
20	2038	0	0	0	0	0	0.414	0.104	0.081	0.094	0	0	0	0.057
21	2039	0	0	0	0	0	0.377	0.122	0.082	0.078	0	0	0	0.055
22	2040	0	0	0	0	0	0.403	0.112	0.079	0.082	0	0	0	0.056

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-22. Simulated Baseline Outflow of Glenn Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.728	0.111	0.075	0.115	0.045	0	0	0.089
1	2019	0	0	0	0	0	0.731	0.111	0.075	0.115	0.046	0	0	0.089
2	2020	0	0	0	0	0	0.732	0.111	0.075	0.115	0.046	0	0	0.089
3	2021	0	0	0	0	0	0.733	0.111	0.075	0.115	0.046	0	0	0.089
4	2022	0	0	0	0	0	0.734	0.111	0.075	0.115	0.046	0	0	0.089
5	2023	0	0	0	0	0	0.736	0.111	0.075	0.115	0.046	0	0	0.090
6	2024	0	0	0	0	0	0.738	0.110	0.075	0.115	0.046	0	0	0.090
7	2025	0	0	0	0	0	0.738	0.110	0.075	0.115	0.046	0	0	0.090
8	2026	0	0	0	0	0	0.741	0.109	0.074	0.115	0.046	0	0	0.090
9	2027	0	0	0	0	0	0.742	0.109	0.074	0.115	0.046	0	0	0.090
10	2028	0	0	0	0	0	0.746	0.109	0.074	0.115	0.047	0	0	0.090
11	2029	0	0	0	0	0	0.746	0.109	0.074	0.115	0.047	0	0	0.090
12	2030	0	0	0	0	0	0.747	0.109	0.074	0.115	0.047	0	0	0.090
13	2031	0	0	0	0	0	0.748	0.108	0.074	0.115	0.047	0	0	0.090
14	2032	0	0	0	0	0	0.751	0.108	0.074	0.116	0.047	0	0	0.091
15	2033	0	0	0	0	0	0.752	0.108	0.074	0.116	0.047	0	0	0.091
16	2034	0	0	0	0	0	0.753	0.108	0.074	0.116	0.047	0	0	0.091
17	2035	0	0	0	0	0	0.754	0.108	0.073	0.116	0.048	0	0	0.091
18	2036	0	0	0	0	0	0.756	0.108	0.073	0.116	0.048	0	0	0.091
19	2037	0	0	0	0	0	0.757	0.107	0.073	0.116	0.048	0	0	0.091
20	2038	0	0	0	0	0	0.758	0.107	0.073	0.116	0.048	0	0	0.091
21	2039	0	0	0	0	0	0.760	0.107	0.073	0.116	0.048	0	0	0.091
22	2040	0	0	0	0	0	0.762	0.107	0.073	0.116	0.048	0	0	0.092

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-23. Simulated Baseline Outflow of Glenn Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.105	0.005	0.026	0.031	0.025	0	0	0.016
1	2019	0	0	0	0	0	0.063	0.017	0.018	0.032	0.028	0	0	0.013
2	2020	0	0	0	0	0	0.105	0.011	0.016	0.028	0.024	0	0	0.015
3	2021	0	0	0	0	0	0.093	0.018	0.024	0.031	0.016	0	0	0.015
4	2022	0	0	0	0	0	0.093	0.009	0.016	0.031	0.026	0	0	0.015
5	2023	0	0	0	0	0	0.105	0.016	0.002	0.031	0.025	0	0	0.015
6	2024	0	0	0	0	0	0.092	0.018	0.015	0.028	0.024	0	0	0.015
7	2025	0	0	0	0	0	0.092	0.018	0.025	0.028	0.025	0	0	0.016
8	2026	0	0	0	0	0	0.140	0.012	0.014	0.030	0.025	0	0	0.018
9	2027	0	0	0	0	0	0.061	0.008	0.001	0.031	0.027	0	0	0.011
10	2028	0	0	0	0	0	0.102	0.018	0.023	0.027	0.025	0	0	0.016
11	2029	0	0	0	0	0	0.092	0.017	0.023	0.035	0.021	0	0	0.016
12	2030	0	0	0	0	0	0.092	0.016	0.023	0.030	0.030	0	0	0.016
13	2031	0	0	0	0	0	0.140	0.015	0.000	0.031	0.025	0	0	0.017
14	2032	0	0	0	0	0	0.092	0.013	0.010	0.030	0.025	0	0	0.014
15	2033	0	0	0	0	0	0.092	0.016	0.023	0.027	0.021	0	0	0.015
16	2034	0	0	0	0	0	0.134	0.015	0.009	0.030	0.025	0	0	0.018
17	2035	0	0	0	0	0	0.092	0.016	0	0.030	0.030	0	0	0.014
18	2036	0	0	0	0	0	0.092	0.016	0.023	0.029	0.020	0	0	0.015
19	2037	0	0	0	0	0	0.106	0.008	0.008	0.027	0.034	0	0	0.015
20	2038	0	0	0	0	0	0.092	0.007	0.022	0.029	0.025	0	0	0.015
21	2039	0	0	0	0	0	0.057	0.013	0.007	0.030	0.025	0	0	0.011
22	2040	0	0	0	0	0.057	0.095	0.004	0.021	0.029	0.030	0	0	0.020

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-24. Simulated Baseline Outflow of Glenn Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0.550	0.892	0.264	0.305	0.229	0.206	0	0	0.205
1	2019	0	0	0	0	0.564	0.944	0.345	0.291	0.205	0.241	0.002	0	0.217
2	2020	0	0	0	0	0.562	0.922	0.390	0.305	0.229	0.198	0	0	0.218
3	2021	0	0	0	0	0.591	0.940	0.265	0.251	0.202	0.199	0	0	0.205
4	2022	0	0	0	0	0.555	0.939	0.212	0.357	0.203	0.200	0.002	0	0.206
5	2023	0	0	0	0	0.587	0.954	0.347	0.306	0.205	0.212	0.002	0	0.219
6	2024	0	0	0	0	0.567	0.818	0.227	0.292	0.230	0.218	0	0	0.197
7	2025	0	0	0	0	0.643	0.782	0.347	0.252	0.204	0.201	0	0	0.204
8	2026	0	0	0	0.001	0.645	0.911	0.211	0.303	0.204	0.209	0.002	0	0.208
9	2027	0	0	0	0	0.556	0.905	0.348	0.292	0.263	0.219	0.002	0	0.216
10	2028	0	0	0	0.009	0.701	0.816	0.268	0.359	0.205	0.202	0	0	0.214
11	2029	0	0	0	0	0.562	0.851	0.349	0.208	0.202	0.220	0.003	0	0.200
12	2030	0	0	0	0.009	0.565	0.816	0.268	0.302	0.205	0.203	0.002	0	0.198
13	2031	0	0	0	0.009	0.566	0.847	0.350	0.293	0.264	0.210	0.005	0	0.213
14	2032	0	0	0	0.017	0.565	0.826	0.351	0.253	0.206	0.221	0	0	0.204
15	2033	0	0	0	0.009	0.656	0.837	0.268	0.288	0.206	0.221	0.006	0	0.209
16	2034	0	0	0	0.009	0.657	0.850	0.207	0.207	0.203	0.204	0.006	0	0.196
17	2035	0	0	0	0.009	0.570	0.847	0.269	0.294	0.206	0.222	0.006	0	0.203
18	2036	0	0	0	0.009	0.660	0.828	0.270	0.287	0.232	0.214	0	0	0.209
19	2037	0	0	0	0.023	0.576	0.778	0.353	0.294	0.290	0.205	0.009	0	0.212
20	2038	0	0	0	0.024	0.571	0.828	0.269	0.287	0.207	0.213	0.011	0	0.202
21	2039	0	0	0	0.016	0.581	0.851	0.353	0.294	0.266	0.224	0.009	0	0.217
22	2040	0	0	0	0.009	0.615	0.731	0.355	0.295	0.208	0.206	0	0	0.203

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-25. Simulated Baseline Outflow of Trout Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.939	0.127	0.117	0.135	0.074	0	0	0.115
1	2019	0	0	0	0	0	0.941	0.127	0.117	0.135	0.074	0	0	0.116
2	2020	0	0	0	0	0	0.944	0.128	0.118	0.135	0.074	0	0	0.116
3	2021	0	0	0	0	0	0.945	0.128	0.118	0.136	0.074	0	0	0.116
4	2022	0	0	0	0	0	0.947	0.128	0.118	0.136	0.075	0	0	0.116
5	2023	0	0	0	0	0	0.948	0.128	0.118	0.136	0.076	0	0	0.116
6	2024	0	0	0	0	0	0.951	0.129	0.119	0.136	0.076	0	0	0.117
7	2025	0	0	0	0	0	0.952	0.129	0.119	0.137	0.076	0	0	0.117
8	2026	0	0	0	0	0	0.954	0.129	0.119	0.137	0.076	0	0	0.117
9	2027	0	0	0	0	0	0.956	0.129	0.119	0.137	0.076	0	0	0.117
10	2028	0	0	0	0	0	0.959	0.130	0.120	0.138	0.076	0	0	0.118
11	2029	0	0	0	0	0	0.960	0.130	0.120	0.138	0.076	0	0	0.118
12	2030	0	0	0	0	0	0.962	0.130	0.120	0.138	0.077	0	0	0.118
13	2031	0	0	0	0	0	0.963	0.130	0.120	0.138	0.077	0	0	0.118
14	2032	0	0	0	0	0	0.966	0.131	0.120	0.139	0.077	0	0	0.119
15	2033	0	0	0	0	0.005	0.963	0.131	0.121	0.139	0.078	0	0	0.119
16	2034	0	0	0	0	0.005	0.964	0.131	0.121	0.139	0.078	0	0	0.119
17	2035	0	0	0	0	0.005	0.966	0.131	0.121	0.139	0.078	0	0	0.119
18	2036	0	0	0	0	0.005	0.968	0.132	0.121	0.140	0.078	0	0	0.120
19	2037	0	0	0	0	0.005	0.969	0.132	0.122	0.140	0.078	0	0	0.120
20	2038	0	0	0	0	0.005	0.971	0.132	0.122	0.140	0.079	0	0	0.120
21	2039	0	0	0	0	0.005	0.973	0.132	0.122	0.140	0.079	0	0	0.120
22	2040	0	0	0	0	0.005	0.975	0.133	0.122	0.141	0.079	0	0	0.121

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-26. Simulated Baseline Outflow of Trout Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.031	0.022	0.058	0.047	0.040	0	0	0.017
1	2019	0	0	0	0	0	0.036	0.038	0.060	0.056	0.040	0	0	0.019
2	2020	0	0	0	0	0	0.031	0.026	0.048	0.047	0.039	0	0	0.016
3	2021	0	0	0	0	0	0.031	0.032	0.049	0.048	0.023	0	0	0.015
4	2022	0	0	0	0	0	0.042	0.020	0.049	0.062	0.043	0	0	0.018
5	2023	0	0	0	0	0	0.037	0.040	0.059	0.047	0.042	0	0	0.019
6	2024	0	0	0	0	0	0.037	0.022	0.049	0.057	0.040	0	0	0.017
7	2025	0	0	0	0	0	0.037	0.026	0.059	0.057	0.040	0	0	0.018
8	2026	0	0	0	0	0	0.031	0.021	0.049	0.048	0.040	0	0	0.016
9	2027	0	0	0	0	0	0.037	0.022	0.061	0.057	0.046	0	0	0.019
10	2028	0	0	0	0	0	0.037	0.026	0.049	0.048	0.040	0	0	0.017
11	2029	0	0	0	0	0	0.031	0.022	0.056	0.058	0.027	0	0	0.016
12	2030	0	0	0	0	0	0.034	0.023	0.050	0.048	0.046	0	0	0.017
13	2031	0	0	0	0	0	0.043	0.023	0.060	0.058	0.041	0	0	0.019
14	2032	0	0	0	0	0	0.031	0.022	0.050	0.057	0.041	0	0	0.017
15	2033	0	0	0	0	0	0.037	0.026	0.050	0.048	0.034	0	0	0.016
16	2034	0	0	0	0	0	0.032	0.023	0.062	0.053	0.041	0	0	0.018
17	2035	0	0	0	0	0	0.037	0.023	0.060	0.049	0.048	0	0	0.018
18	2036	0	0	0	0	0	0.032	0.039	0.060	0.058	0.033	0	0	0.019
19	2037	0	0	0	0	0	0.035	0.023	0.050	0.059	0.045	0	0	0.018
20	2038	0	0	0	0	0	0.038	0.023	0.050	0.049	0.041	0	0	0.017
21	2039	0	0	0	0	0	0.032	0.039	0.062	0.049	0.041	0	0	0.019
22	2040	0	0	0	0	0	0.038	0.023	0.050	0.064	0.034	0	0	0.018

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-27. Simulated Baseline Outflow of Trout Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0.834	1.051	0.310	0.338	0.200	0.329	0	0	0.257
1	2019	0	0	0	0	0.791	1.061	0.408	0.338	0.206	0.395	0.003	0	0.268
2	2020	0	0	0	0	0.837	1.001	0.421	0.380	0.206	0.319	0	0	0.265
3	2021	0	0	0	0	0.810	0.981	0.311	0.295	0.229	0.326	0	0	0.247
4	2022	0	0	0	0	0.841	1.009	0.272	0.381	0.207	0.327	0	0	0.255
5	2023	0	0	0	0	0.849	1.043	0.411	0.342	0.218	0.334	0	0	0.268
6	2024	0	0	0	0	0.861	0.983	0.299	0.383	0.207	0.328	0	0	0.257
7	2025	0	0	0	0	0.888	0.964	0.413	0.298	0.219	0.328	0	0	0.261
8	2026	0	0	0	0	0.907	0.985	0.274	0.343	0.208	0.334	0.003	0	0.256
9	2027	0	0	0	0	0.850	1.006	0.414	0.344	0.232	0.359	0.003	0	0.269
10	2028	0	0	0	0	1.056	0.972	0.316	0.406	0.203	0.331	0	0	0.276
11	2029	0	0	0	0	0.853	0.986	0.416	0.266	0.210	0.360	0	0	0.259
12	2030	0	0	0	0	0.872	0.970	0.317	0.345	0.201	0.332	0	0	0.255
13	2031	0	0	0	0	0.873	0.990	0.418	0.346	0.222	0.345	0.003	0	0.268
14	2032	0	0	0	0.024	0.867	0.968	0.418	0.302	0.234	0.363	0	0	0.266
15	2033	0	0	0	0	0.988	0.966	0.319	0.347	0.207	0.363	0	0	0.268
16	2034	0	0	0	0.007	0.990	0.962	0.278	0.268	0.212	0.335	0.008	0	0.257
17	2035	0	0	0	0.009	0.863	0.985	0.320	0.350	0.212	0.365	0.006	0	0.261
18	2036	0	0	0	0.010	0.994	0.987	0.321	0.349	0.235	0.351	0	0	0.272
19	2037	0	0	0	0.013	0.867	0.895	0.422	0.371	0.236	0.337	0.008	0	0.264
20	2038	0	0	0	0.024	0.869	0.991	0.322	0.351	0.204	0.350	0.010	0	0.262
21	2039	0	0	0	0	0.870	0.966	0.424	0.351	0.237	0.367	0.006	0	0.270
22	2040	0	0	0	0.013	1.002	0.869	0.425	0.373	0.226	0.339	0	0	0.273

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-28. Simulated Baseline Outflow of Stickleback Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.030	0.011	0.002	0.002	0	0	0	0.004
1	2019	0	0	0	0	0	0.031	0.011	0.002	0.002	0	0	0	0.004
2	2020	0	0	0	0	0	0.031	0.011	0.002	0.002	0	0	0	0.004
3	2021	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
4	2022	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
5	2023	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
6	2024	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
7	2025	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
8	2026	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
9	2027	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
10	2028	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
11	2029	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
12	2030	0	0	0	0	0	0.032	0.011	0.002	0.002	0	0	0	0.004
13	2031	0	0	0	0	0	0.033	0.011	0.002	0.002	0	0	0	0.004
14	2032	0	0	0	0	0	0.033	0.011	0.002	0.002	0	0	0	0.004
15	2033	0	0	0	0	0	0.033	0.010	0.002	0.002	0	0	0	0.004
16	2034	0	0	0	0	0	0.033	0.010	0.002	0.002	0	0	0	0.004
17	2035	0	0	0	0	0	0.033	0.010	0.002	0.002	0	0	0	0.004
18	2036	0	0	0	0	0	0.033	0.010	0.002	0.002	0	0	0	0.004
19	2037	0	0	0	0	0	0.033	0.010	0.002	0.002	0	0	0	0.004
20	2038	0	0	0	0	0	0.033	0.010	0.002	0.002	0	0	0	0.004
21	2039	0	0	0	0	0	0.033	0.010	0.002	0.002	0	0	0	0.004
22	2040	0	0	0	0	0	0.034	0.010	0.002	0.002	0	0	0	0.004

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-29. Simulated Baseline Outflow of Stickleback Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.012	0.002	0.000	0	0	0	0	0.001
1	2019	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
2	2020	0	0	0	0	0	0.013	0.002	0.000	0	0	0	0	0.001
3	2021	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
4	2022	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
5	2023	0	0	0	0	0	0.013	0.001	0.000	0	0	0	0	0.001
6	2024	0	0	0	0	0	0.012	0.001	0	0	0	0	0	0.001
7	2025	0	0	0	0	0	0.013	0.001	0.000	0	0	0	0	0.001
8	2026	0	0	0	0	0	0.012	0.002	0.000	0	0	0	0	0.001
9	2027	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
10	2028	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
11	2029	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
12	2030	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
13	2031	0	0	0	0	0	0.013	0.001	0.000	0	0	0	0	0.001
14	2032	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
15	2033	0	0	0	0	0	0.013	0.001	0.000	0	0	0	0	0.001
16	2034	0	0	0	0	0	0.013	0.001	0	0	0	0	0	0.001
17	2035	0	0	0	0	0	0.011	0.001	0.000	0	0	0	0	0.001
18	2036	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
19	2037	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001
20	2038	0	0	0	0	0	0.013	0.001	0.000	0	0	0	0	0.001
21	2039	0	0	0	0	0	0.012	0.000	0.000	0	0	0	0	0.001
22	2040	0	0	0	0	0	0.012	0.001	0.000	0	0	0	0	0.001

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-30. Simulated Baseline Outflow of Stickleback Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	0.063	0.017	0.012	0.011	0	0	0	0.009
1	2019	0	0	0	0	0	0.063	0.017	0.010	0.016	0	0	0	0.009
2	2020	0	0	0	0	0	0.061	0.023	0.012	0.016	0	0	0	0.009
3	2021	0	0	0	0	0	0.081	0.016	0.010	0.011	0	0	0	0.010
4	2022	0	0	0	0	0	0.063	0.017	0.010	0.011	0	0	0	0.008
5	2023	0	0	0	0	0	0.065	0.016	0.011	0.016	0	0	0	0.009
6	2024	0	0	0	0	0	0.066	0.019	0.011	0.011	0	0	0	0.009
7	2025	0	0	0	0	0	0.068	0.016	0.010	0.016	0	0	0	0.009
8	2026	0	0	0	0	0	0.067	0.016	0.011	0.011	0	0	0	0.009
9	2027	0	0	0	0	0	0.062	0.019	0.010	0.014	0	0	0	0.009
10	2028	0	0	0	0	0	0.070	0.016	0.011	0.016	0	0	0	0.009
11	2029	0	0	0	0	0	0.064	0.021	0.010	0.011	0	0	0	0.009
12	2030	0	0	0	0	0	0.068	0.016	0.010	0.016	0	0	0	0.009
13	2031	0	0	0	0	0	0.067	0.016	0.011	0.016	0	0	0	0.009
14	2032	0	0	0	0	0	0.069	0.016	0.010	0.016	0	0	0	0.009
15	2033	0	0	0	0	0	0.071	0.016	0.010	0.011	0	0	0	0.009
16	2034	0	0	0	0	0	0.070	0.016	0.009	0.011	0	0	0	0.009
17	2035	0	0	0	0	0	0.063	0.015	0.010	0.016	0	0	0	0.009
18	2036	0	0	0	0	0	0.072	0.016	0.011	0.011	0	0	0	0.009
19	2037	0	0	0	0	0	0.070	0.016	0.010	0.011	0	0	0	0.009
20	2038	0	0	0	0	0	0.072	0.015	0.010	0.016	0	0	0	0.009
21	2039	0	0	0	0	0	0.067	0.019	0.010	0.011	0	0	0	0.009
22	2040	0	0	0	0	0	0.071	0.016	0.010	0.016	0	0	0	0.009

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-31. Simulated Baseline Outflow of Aimaokatalok Lake under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	32.75	8.53	4.81	4.68	2.06	0.45	0	4.42
1	2019	0	0	0	0	0	33.06	8.34	4.80	4.69	2.06	0.45	0	4.43
2	2020	0	0	0	0	0	33.17	8.34	4.81	4.70	2.07	0.45	0	4.44
3	2021	0	0	0	0	0	33.23	8.34	4.81	4.71	2.08	0.45	0	4.45
4	2022	0	0	0	0	0	33.31	8.35	4.82	4.72	2.10	0.45	0	4.46
5	2023	0	0	0	0	0	33.38	8.35	4.83	4.73	2.11	0.45	0	4.47
6	2024	0	0	0	0	0	33.48	8.36	4.84	4.73	2.12	0.46	0	4.48
7	2025	0	0	0	0	0	33.54	8.36	4.85	4.75	2.13	0.46	0	4.49
8	2026	0	0	0	0	0	33.62	8.36	4.85	4.75	2.13	0.66	0	4.51
9	2027	0	0	0	0	0	33.50	8.36	4.86	4.76	2.14	0.66	0	4.50
10	2028	0	0	0	0	0	33.60	8.36	4.87	4.77	2.15	0.66	0	4.51
11	2029	0	0	0	0	0	33.66	8.37	4.88	4.78	2.16	0.66	0	4.52
12	2030	0	0	0	0	0	33.74	8.37	4.89	4.79	2.16	0.66	0	4.53
13	2031	0	0	0	0	0	33.85	8.34	4.89	4.80	2.17	0.66	0	4.54
14	2032	0	0	0	0	0	33.95	8.35	4.90	4.81	2.18	0.66	0	4.55
15	2033	0	0	0	0	0.14	33.92	8.33	4.91	4.82	2.20	0.86	0	4.58
16	2034	0	0	0	0	0.11	33.82	8.33	4.91	4.83	2.21	0.86	0	4.57
17	2035	0	0	0	0	0.11	33.89	8.34	4.92	4.83	2.22	1.21	0	4.61
18	2036	0	0	0	0	0.07	33.70	8.34	4.93	4.84	2.22	1.36	0	4.60
19	2037	0	0	0	0	0.05	33.61	8.34	4.94	4.85	2.23	1.51	0	4.61
20	2038	0	0	0	0	0.04	33.56	8.34	4.94	4.86	2.24	1.51	0	4.60
21	2039	0	0	0	0	0.04	33.63	8.34	4.95	4.87	2.25	1.51	0	4.61
22	2040	0	0	0	0	0.04	33.73	8.35	4.96	4.88	2.25	1.65	0	4.63

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-32. Simulated Baseline Outflow of Aimaakatalok Lake under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	13.09	3.27	2.54	2.20	0.52	0	0	1.79
1	2019	0	0	0	0	0	11.64	3.38	2.37	2.45	0.69	0	0	1.70
2	2020	0	0	0	0	0	12.40	3.38	2.17	2.02	0.54	0	0	1.70
3	2021	0	0	0	0	0	11.20	3.25	2.67	2.21	0.45	0	0	1.64
4	2022	0	0	0	0	0	11.61	3.26	1.84	2.52	0.59	0	0	1.65
5	2023	0	0	0	0	0	12.94	3.39	2.46	2.22	0.71	0	0	1.80
6	2024	0	0	0	0	0	11.18	3.13	2.18	2.53	0.64	0	0	1.63
7	2025	0	0	0	0	0	12.24	3.38	2.77	2.22	0.63	0	0	1.76
8	2026	0	0	0	0	0	11.57	3.37	2.18	3.02	0.60	0	0	1.72
9	2027	0	0	0	0	0	11.56	3.28	2.47	2.47	0.74	0	0	1.70
10	2028	0	0	0	0	0	11.50	3.39	2.18	2.23	0.58	0	0	1.65
11	2029	0	0	0	0	0	10.96	3.14	2.88	2.24	0.67	0	0	1.65
12	2030	0	0	0	0	0	9.90	3.31	2.18	2.56	0.61	0	0	1.54
13	2031	0	0	0	0	0	11.68	3.29	2.30	2.24	0.77	0	0	1.68
14	2032	0	0	0	0	0	9.19	3.15	2.60	2.57	0.65	0	0	1.51
15	2033	0	0	0	0	0	9.70	3.29	2.19	2.07	0.61	0	0	1.48
16	2034	0	0	0	0	0	11.33	3.16	2.60	3.06	0.62	0	0	1.72
17	2035	0	0	0	0	0	11.45	3.46	2.50	2.26	0.75	0	0	1.70
18	2036	0	0	0	0	0	10.71	3.16	2.71	2.26	0.64	0	0	1.62
19	2037	0	0	0	0	0.03	9.69	3.17	1.85	2.59	0.78	0	0	1.50
20	2038	0	0	0	0	0	9.91	3.25	2.62	2.27	0.64	0	0	1.55
21	2039	0	0	0	0	0	9.26	3.31	2.32	3.17	0.76	0	0	1.56
22	2040	0	0	0	0	0.10	10.71	3.22	2.63	2.60	0.65	0	0	1.65

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-33. Simulated Baseline Outflow of Aimaakatalok Lake under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	19.17	41.74	12.16	11.79	9.46	8.16	2.25	0	8.75
1	2019	0	0	0	0	18.80	44.52	12.07	11.80	9.48	10.24	2.30	0	9.12
2	2020	0	0	0	0	22.19	41.13	12.71	11.90	9.49	9.16	2.20	0	9.09
3	2021	0	0	0	0	17.73	45.02	12.12	11.84	9.42	7.41	2.21	0	8.83
4	2022	0	0	0	0	18.84	44.95	12.25	11.94	10.27	7.43	2.24	0	9.01
5	2023	0	0	0	0	18.11	42.25	12.16	13.57	9.55	8.42	1.89	0	8.85
6	2024	0	0	0	0	24.66	42.17	12.26	11.95	9.48	9.40	2.22	0	9.38
7	2025	0	0	0	0	18.88	38.53	12.17	11.96	9.59	7.49	1.97	0	8.41
8	2026	0	0	0	0.28	22.32	43.87	12.10	11.94	9.61	6.91	2.29	0	9.13
9	2027	0	0	0	0	18.99	41.51	12.37	11.96	9.63	10.13	2.56	0	8.95
10	2028	0	0	0	0.64	26.06	43.02	12.11	13.86	9.65	7.69	1.72	0	9.59
11	2029	0	0	0	0	20.52	42.05	12.26	11.54	9.57	10.08	2.00	0	9.03
12	2030	0	0	0	0	26.14	43.25	12.13	12.11	10.44	7.60	2.44	0	9.54
13	2031	0	0	0	0	19.91	42.71	12.30	11.98	9.70	8.93	2.63	0	9.04
14	2032	0	0	0	0.86	26.46	43.21	12.32	12.11	9.72	10.17	2.31	0	9.80
15	2033	0	0	0	0	21.24	42.44	12.14	12.09	9.65	8.99	1.84	0	9.06
16	2034	0	0	0	0.52	26.52	42.55	12.13	11.65	9.66	7.06	2.53	0	9.41
17	2035	0	0	0	0.53	23.02	41.59	12.50	12.14	9.78	10.35	1.85	0	9.34
18	2036	0	0	0	0.70	25.11	43.44	12.19	12.14	9.46	10.27	2.46	0	9.68
19	2037	0	0	0	0.53	26.77	40.43	12.41	11.84	9.81	7.87	1.91	0	9.33
20	2038	0	0	0	0.95	22.42	42.90	12.12	12.28	9.74	7.14	2.69	0	9.21
21	2039	0	0	0	0	24.66	41.51	12.71	11.91	9.85	7.78	1.92	0	9.23
22	2040	0	0	0	0.70	27.12	39.78	12.46	12.17	9.86	7.93	2.52	0	9.41

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-34. Simulated Baseline Outflow of Koignuk River 1 under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	37.86	9.27	5.46	5.41	2.44	0.45	0	5.05
1	2019	0	0	0	0	0	38.19	9.07	5.46	5.42	2.45	0.45	0	5.06
2	2020	0	0	0	0	0	38.31	9.08	5.47	5.42	2.45	0.45	0	5.08
3	2021	0	0	0	0	0	38.38	9.08	5.48	5.44	2.46	0.45	0	5.08
4	2022	0	0	0	0	0	38.47	9.09	5.48	5.45	2.49	0.45	0	5.10
5	2023	0	0	0	0	0	38.54	9.09	5.50	5.46	2.50	0.45	0	5.11
6	2024	0	0	0	0	0	38.66	9.10	5.50	5.47	2.51	0.46	0	5.12
7	2025	0	0	0	0	0	38.73	9.10	5.51	5.48	2.52	0.46	0	5.13
8	2026	0	0	0	0	0	38.81	9.11	5.52	5.49	2.53	0.66	0	5.15
9	2027	0	0	0	0	0	38.70	9.11	5.53	5.50	2.53	0.66	0	5.15
10	2028	0	0	0	0	0	38.81	9.12	5.54	5.51	2.54	0.66	0	5.16
11	2029	0	0	0	0	0	38.89	9.12	5.55	5.52	2.55	0.66	0	5.17
12	2030	0	0	0	0	0	38.97	9.12	5.56	5.53	2.56	0.66	0	5.18
13	2031	0	0	0	0	0	39.08	9.10	5.57	5.54	2.57	0.66	0	5.19
14	2032	0	0	0	0	0	39.20	9.11	5.58	5.56	2.58	0.66	0	5.20
15	2033	0	0	0	0	0.19	39.12	9.09	5.59	5.56	2.60	0.86	0	5.23
16	2034	0	0	0	0	0.17	39.04	9.09	5.59	5.57	2.61	0.86	0	5.22
17	2035	0	0	0	0	0.17	39.12	9.10	5.60	5.59	2.62	1.21	0	5.26
18	2036	0	0	0	0	0.13	38.93	9.10	5.61	5.59	2.63	1.36	0	5.26
19	2037	0	0	0	0	0.11	38.85	9.10	5.62	5.61	2.64	1.51	0	5.26
20	2038	0	0	0	0	0.10	38.81	9.10	5.63	5.62	2.64	1.51	0	5.26
21	2039	0	0	0	0	0.10	38.89	9.11	5.64	5.63	2.65	1.51	0	5.27
22	2040	0	0	0	0	0.10	39.00	9.12	5.65	5.64	2.66	1.65	0	5.29

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-35. Simulated Baseline Outflow of Koignuk River 1 under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	13.40	3.72	3.06	2.60	0.69	0	0	1.95
1	2019	0	0	0	0	0	12.07	3.76	2.67	2.99	1.08	0	0	1.88
2	2020	0	0	0	0	0	12.71	3.71	2.26	2.50	0.67	0	0	1.81
3	2021	0	0	0	0	0	11.64	3.71	3.07	2.61	0.66	0	0	1.80
4	2022	0	0	0	0	0	12.05	3.79	2.06	3.06	0.83	0	0	1.81
5	2023	0	0	0	0	0	13.25	3.99	2.97	2.62	0.90	0	0	1.97
6	2024	0	0	0	0	0	11.62	3.34	2.26	3.07	0.85	0	0	1.75
7	2025	0	0	0	0	0	12.56	3.70	3.48	2.63	0.91	0	0	1.93
8	2026	0	0	0	0	0	12.05	3.80	2.27	3.26	0.84	0	0	1.85
9	2027	0	0	0	0	0	12.01	3.48	2.99	3.03	0.91	0	0	1.86
10	2028	0	0	0	0	0	12.01	3.99	2.27	2.64	0.70	0	0	1.80
11	2029	0	0	0	0	0	11.54	3.71	3.49	2.65	0.95	0	0	1.86
12	2030	0	0	0	0	0	10.52	3.60	2.27	3.10	0.86	0	0	1.69
13	2031	0	0	0	0	0	12.21	3.61	2.39	2.66	0.96	0	0	1.81
14	2032	0	0	0	0	0	9.45	3.66	3.10	3.11	0.85	0	0	1.68
15	2033	0	0	0	0	0	10.28	3.73	2.28	2.55	0.73	0	0	1.63
16	2034	0	0	0	0	0	11.77	3.37	3.11	3.31	0.74	0	0	1.85
17	2035	0	0	0	0	0	11.80	3.77	3.03	2.67	1.02	0	0	1.85
18	2036	0	0	0	0	0	10.97	3.60	3.12	2.68	0.76	0	0	1.76
19	2037	0	0	0	0	0.07	10.27	3.72	2.03	3.14	1.06	0	0	1.69
20	2038	0	0	0	0	0	10.51	3.60	3.13	2.68	0.76	0	0	1.72
21	2039	0	0	0	0	0	9.46	3.60	2.41	3.42	1.04	0	0	1.66
22	2040	0	0	0	0	0.10	11.17	3.63	3.49	3.16	0.77	0	0	1.86

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-36. Simulated Baseline Outflow of Koignuk River 1 under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	22.88	47.11	13.50	13.56	10.50	9.85	2.25	0	10.00
1	2019	0	0	0	0	22.66	50.62	13.44	13.56	10.78	12.28	2.30	0	10.50
2	2020	0	0	0	0	26.14	46.84	15.26	13.89	10.80	10.80	2.20	0	10.53
3	2021	0	0	0	0	21.28	50.69	12.34	13.62	10.31	9.09	2.21	0	9.98
4	2022	0	0	0	0	22.72	47.84	13.45	13.94	11.40	9.12	2.24	0	10.08
5	2023	0	0	0	0	21.84	47.88	14.34	15.60	10.35	10.10	1.89	0	10.20
6	2024	0	0	0	0	29.02	47.30	13.47	13.75	10.37	11.09	2.22	0	10.64
7	2025	0	0	0	0	22.78	42.79	14.36	13.87	10.91	9.19	1.97	0	9.69
8	2026	0	0	0	0.37	26.47	47.15	12.67	13.74	10.41	8.67	2.29	0	10.18
9	2027	0	0	0	0	22.92	47.26	14.41	13.74	10.95	11.98	2.56	0	10.35
10	2028	0	0	0	0.64	30.46	47.65	13.33	15.43	10.97	9.39	1.72	0	10.84
11	2029	0	0	0	0	24.27	47.84	14.47	12.50	10.47	11.96	2.00	0	10.32
12	2030	0	0	0	0	30.56	47.65	13.35	14.15	11.59	9.31	2.45	0	10.79
13	2031	0	0	0	0	23.80	47.99	14.51	13.80	11.04	10.72	2.63	0	10.40
14	2032	0	0	0	1.76	30.90	47.69	14.54	14.05	11.06	12.05	2.33	0	11.24
15	2033	0	0	0	0	25.21	44.56	13.03	13.91	10.56	10.80	1.84	0	10.03
16	2034	0	0	0	0.57	30.97	48.38	12.69	12.63	10.43	8.86	2.53	0	10.62
17	2035	0	0	0	0.59	27.19	46.45	13.38	13.95	10.86	12.23	1.85	0	10.58
18	2036	0	0	0	0.77	29.41	46.99	13.43	13.97	10.36	12.17	2.46	0	10.84
19	2037	0	0	0	0.60	31.25	42.75	14.65	12.99	11.16	9.61	2.34	0	10.49
20	2038	0	0	0	1.18	26.36	48.80	13.36	14.35	10.66	8.95	2.69	0	10.56
21	2039	0	0	0	0	29.16	46.26	13.36	13.76	10.68	9.52	2.10	0	10.44
22	2040	0	0	0	0.77	31.60	45.64	14.72	14.13	11.22	9.68	2.52	0	10.90

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-37. Simulated Baseline Outflow of Koignuk River 2 under Average Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	57.83	12.14	8.03	8.24	3.93	0.45	0	7.51
1	2019	0	0	0	0	0	58.22	11.95	8.03	8.26	3.94	0.45	0	7.53
2	2020	0	0	0	0	0	58.37	11.97	8.05	8.27	3.95	0.45	0	7.55
3	2021	0	0	0	0	0	58.49	11.98	8.06	8.29	3.96	0.45	0	7.56
4	2022	0	0	0	0	0	58.60	11.99	8.08	8.31	4.01	0.45	0	7.58
5	2023	0	0	0	0	0	58.72	12.00	8.09	8.32	4.02	0.45	0	7.60
6	2024	0	0	0	0	0	58.87	12.01	8.11	8.34	4.03	0.46	0	7.61
7	2025	0	0	0	0	0	58.99	12.02	8.12	8.36	4.04	0.46	0	7.63
8	2026	0	0	0	0	0	59.10	12.03	8.14	8.37	4.05	0.66	0	7.66
9	2027	0	0	0	0	0	59.03	12.04	8.15	8.39	4.07	0.66	0	7.66
10	2028	0	0	0	0	0	59.22	12.05	8.17	8.41	4.08	0.66	0	7.68
11	2029	0	0	0	0	0	59.30	12.06	8.18	8.42	4.09	0.66	0	7.69
12	2030	0	0	0	0	0	59.45	12.07	8.20	8.44	4.10	0.66	0	7.70
13	2031	0	0	0	0	0	59.61	12.05	8.21	8.45	4.11	0.66	0	7.72
14	2032	0	0	0	0	0	59.76	12.07	8.22	8.47	4.12	0.66	0	7.74
15	2033	0	0	0	0	0.43	59.49	12.06	8.24	8.48	4.17	0.86	0	7.77
16	2034	0	0	0	0	0.40	59.41	12.06	8.25	8.50	4.18	0.86	0	7.77
17	2035	0	0	0	0	0.41	59.53	12.08	8.26	8.52	4.19	1.21	0	7.81
18	2036	0	0	0	0	0.37	59.41	12.08	8.28	8.53	4.20	1.36	0	7.81
19	2037	0	0	0	0	0.35	59.34	12.09	8.29	8.55	4.21	1.51	0	7.82
20	2038	0	0	0	0	0.34	59.34	12.10	8.30	8.56	4.22	1.51	0	7.83
21	2039	0	0	0	0	0.34	59.45	12.11	8.32	8.58	4.23	1.51	0	7.84
22	2040	0	0	0	0	0.34	59.65	12.12	8.33	8.60	4.25	1.65	0	7.87

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-38. Simulated Baseline Outflow of Koignuk River 2 under 1-in-20-Year Dry Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	0	14.64	4.94	4.61	4.17	1.50	0	0	2.49
1	2019	0	0	0	0	0	13.77	5.18	3.54	4.44	1.76	0	0	2.39
2	2020	0	0	0	0	0	13.95	5.31	3.39	4.19	1.48	0	0	2.35
3	2021	0	0	0	0	0	13.34	5.07	4.64	4.19	1.48	0	0	2.39
4	2022	0	0	0	0	0	13.76	4.97	3.53	4.90	1.76	0	0	2.40
5	2023	0	0	0	0	0	14.50	5.40	4.81	4.29	1.59	0	0	2.55
6	2024	0	0	0	0	0	13.33	4.32	3.38	4.37	1.62	0	0	2.25
7	2025	0	0	0	0	0	13.81	4.89	4.90	4.22	1.81	0	0	2.47
8	2026	0	0	0	0	0	13.77	5.35	3.53	4.39	1.63	0	0	2.39
9	2027	0	0	0	0	0	13.73	4.35	3.53	4.32	1.64	0	0	2.29
10	2028	0	0	0	0	0	13.77	5.32	4.67	4.25	1.52	0	0	2.46
11	2029	0	0	0	0	0	13.31	4.91	5.18	4.70	1.51	0	0	2.47
12	2030	0	0	0	0	0	12.92	5.33	4.69	4.42	1.80	0	0	2.43
13	2031	0	0	0	0	0	13.22	5.02	3.53	4.36	2.05	0	0	2.35
14	2032	0	0	0	0	0	10.49	5.23	3.38	4.36	1.49	0	0	2.08
15	2033	0	0	0	0	0	12.54	5.21	4.05	4.28	2.06	0	0	2.34
16	2034	0	0	0	0	0	12.78	4.39	3.53	5.00	1.54	0	0	2.26
17	2035	0	0	0	0	0	12.93	5.04	3.54	4.30	2.11	0	0	2.32
18	2036	0	0	0	0	0	11.99	5.39	4.73	4.31	1.51	0	0	2.33
19	2037	0	0	0	0	0.07	12.56	4.92	3.39	4.76	2.11	0	0	2.32
20	2038	0	0	0	0	0	12.94	5.06	4.74	4.32	1.56	0	0	2.38
21	2039	0	0	0	0	0	10.51	4.87	3.55	4.43	2.13	0	0	2.12
22	2040	0	0	0	0	0.10	12.94	5.40	5.18	4.91	1.77	0	0	2.52

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.

Table M-39. Simulated Baseline Outflow of Koignuk River 2 under 1-in-20-Year Wet Runoff Conditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0	37.60	66.55	18.18	21.60	14.62	17.14	2.35	0	14.89
1	2019	0	0	0	0	37.71	70.10	18.88	20.74	14.32	20.23	2.38	0	15.42
2	2020	0	0	0	0	41.55	69.14	25.20	21.24	14.68	17.23	2.20	0	16.01
3	2021	0	0	0	0	35.86	69.14	18.18	20.58	13.78	15.66	2.21	0	14.66
4	2022	0	0	0	0	37.90	71.64	18.17	21.77	14.41	15.70	2.24	0	15.20
5	2023	0	0	0	0	37.06	69.83	22.85	22.60	15.16	16.69	2.32	0	15.60
6	2024	0	0	0	0	46.07	67.17	18.21	20.96	14.50	17.69	2.22	0	15.64
7	2025	0	0	0	0	38.05	59.49	22.91	21.46	14.66	15.82	2.36	0	14.63
8	2026	0	0	0	0.37	38.38	69.64	18.07	21.28	14.53	15.55	2.43	0	15.07
9	2027	0	0	0	0	38.23	69.79	23.00	21.09	16.01	19.21	2.56	0	15.89
10	2028	0	0	0	0.64	48.54	65.66	18.32	22.01	14.92	16.05	2.34	0	15.78
11	2029	0	0	0	0	44.39	68.75	23.08	16.73	14.00	19.28	2.44	0	15.79
12	2030	0	0	0	0	41.93	65.47	18.37	21.68	14.65	16.00	2.49	0	15.11
13	2031	0	0	0	0	42.34	68.60	18.81	20.90	16.13	17.72	2.63	0	15.65
14	2032	0	0	0	2.26	48.80	65.28	23.20	21.77	14.73	19.42	2.49	0	16.58
15	2033	0	0	0	0	44.28	61.73	18.43	21.35	14.12	17.85	2.30	0	15.08
16	2034	0	0	0	0.71	48.35	68.21	17.21	16.87	14.14	15.85	2.53	0	15.38
17	2035	0	0	0	0.76	43.46	65.43	18.90	21.43	16.25	19.57	2.68	0	15.78
18	2036	0	0	0	0.99	56.53	65.16	18.28	21.48	14.85	19.59	2.51	0	16.71
19	2037	0	0	0	0.86	48.72	62.69	23.40	21.52	16.43	16.39	2.50	0	16.13
20	2038	0	0	0	2.08	45.33	70.14	18.32	22.02	14.25	15.99	2.69	0	15.96
21	2039	0	0	0	0	48.24	65.90	18.89	21.17	14.90	16.33	2.15	0	15.70
22	2040	0	0	0	1.04	49.10	63.04	23.51	21.64	15.11	16.50	2.60	0	16.13

Reference: Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4).

Note: The Water and Load Balance Model (Volume 1, Annex V1-7, Package P5-4) incorporates the effects of climate change (Volume 1, Annex V1-7, Package P5-1) on streamflows.