

Appendix V5-1P

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



Table P-1. Simulated Project-affected 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	0.051	0	0	0	0	0	0	0.004
7	2025	0	0	0	0	0	0.051	0	0	0	0	0	0	0.004
8	2026	0	0	0	0	0	0.050	0	0	0	0	0	0	0.004
9	2027	0	0	0	0	0	0.050	0	0	0	0	0	0	0.004
10	2028	0	0	0	0	0	0.050	0	0	0	0	0	0	0.004
11	2029	0	0	0	0	0	0.049	0	0	0	0	0	0	0.004
12	2030	0	0	0	0	0	0.037	0	0	0	0	0	0	0.003
13	2031	0	0	0	0	0	0.025	0	0	0	0	0	0	0.002
14	2032	0	0	0	0	0	0.023	0	0	0	0	0	0	0.002
15	2033	0	0	0	0	0	0.035	0	0	0	0	0	0	0.003
16	2034	0	0	0	0	0	0.049	0	0	0	0	0	0	0.004
17	2035	0	0	0	0	0	0.051	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 P-2. Simulated Project-affected 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 P-3. Simulated Project-affected 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	0.019	0	0	0.017
6	2024	0	0	0	0	0.074	0.078	0.000	0	0.012	0.024	0	0	0.016
7	2025	0	0	0	0	0.078	0.073	0.003	0	0.012	0.019	0	0	0.015
8	2026	0	0	0	0	0.075	0.081	0	0	0.012	0.019	0	0	0.016
9	2027	0	0	0	0	0.069	0.075	0.001	0	0.011	0.018	0	0	0.015
10	2028	0	0	0	0	0.077	0.070	0	0.003	0.013	0.024	0	0	0.016
11	2029	0	0	0	0	0.060	0.071	0.001	0	0.005	0.017	0	0	0.013
12	2030	0	0	0	0	0.069	0.068	0	0	0.005	0.015	0	0	0.013
13	2031	0	0	0	0	0.055	0.061	0	0	0.006	0.015	0	0	0.011
14	2032	0	0	0	0	0.055	0.057	0	0	0.004	0.014	0	0	0.011
15	2033	0	0	0	0	0.070	0.068	0	0	0.010	0.024	0	0	0.014
16	2034	0	0	0	0	0.076	0.066	0	0	0.005	0.017	0	0	0.014
17	2035	0	0	0	0	0.067	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 P-4. Simulated Project-affected 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	0.430	0.227	0.119	0.101	0	0	0	0.073
4	2022	0	0	0	0	0	0.394	0.214	0.113	0.096	0	0	0	0.068
5	2023	0	0	0	0	0	0.362	0.202	0.107	0.092	0	0	0	0.064
6	2024	0	0	0	0	0	0.352	0.199	0.105	0.091	0	0	0	0.062
7	2025	0	0	0	0	0	0.351	0.198	0.105	0.090	0	0	0	0.062
8	2026	0	0	0	0	0	0.354	0.196	0.104	0.090	0	0	0	0.062
9	2027	0	0	0	0	0	0.354	0.196	0.104	0.090	0	0	0	0.062
10	2028	0	0	0	0	0	0.357	0.196	0.104	0.090	0	0	0	0.062
11	2029	0	0	0	0	0	0.357	0.195	0.103	0.088	0	0	0	0.062
12	2030	0	0	0	0	0	0.334	0.186	0.099	0.086	0	0	0	0.059
13	2031	0	0	0	0	0	0.322	0.181	0.097	0.084	0	0	0	0.057
14	2032	0	0	0	0	0	0.364	0.199	0.108	0.095	0	0	0	0.064
15	2033	0	0	0	0	0	0.424	0.218	0.116	0.101	0	0	0	0.072
16	2034	0	0	0	0	0	0.449	0.224	0.118	0.103	0	0	0	0.074
17	2035	0	0	0	0	0	0.454	0.225	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 P-5. Simulated Project-affected 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	0.235	0.103	0.060	0.062	0	0	0	0.038
4	2022	0	0	0	0	0	0.221	0.097	0.057	0.057	0	0	0	0.036
5	2023	0	0	0	0	0	0.185	0.082	0.051	0.053	0	0	0	0.031
6	2024	0	0	0	0	0	0.186	0.080	0.049	0.052	0	0	0	0.031
7	2025	0	0	0	0	0	0.182	0.086	0.056	0.052	0	0	0	0.031
8	2026	0	0	0	0	0	0.180	0.077	0.049	0.051	0	0	0	0.030
9	2027	0	0	0	0	0	0.183	0.085	0.050	0.051	0	0	0	0.031
10	2028	0	0	0	0	0	0.196	0.078	0.050	0.051	0	0	0	0.031
11	2029	0	0	0	0	0	0.183	0.092	0.053	0.050	0	0	0	0.031
12	2030	0	0	0	0	0	0.165	0.074	0.045	0.047	0	0	0	0.028
13	2031	0	0	0	0	0	0.174	0.066	0.043	0.045	0	0	0	0.027
14	2032	0	0	0	0	0	0.188	0.081	0.054	0.055	0	0	0	0.031
15	2033	0	0	0	0	0	0.250	0.093	0.061	0.059	0	0	0	0.038
16	2034	0	0	0	0	0	0.290	0.117	0.060	0.064	0	0	0	0.044
17	2035	0	0	0	0	0	0.232	0.099	0.064	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 P-6. Simulated Project-affected 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	0.982	0.294	0.216	0.199	0.000	0	0	0.144
4	2022	0	0	0	0	0.035	0.735	0.302	0.212	0.191	0.000	0	0	0.123
5	2023	0	0	0	0	0.028	0.736	0.263	0.215	0.237	0.000	0	0	0.123
6	2024	0	0	0	0	0.028	0.718	0.289	0.210	0.185	0.000	0	0	0.119
7	2025	0	0	0	0	0.025	0.750	0.278	0.203	0.236	0.000	0	0	0.124
8	2026	0	0	0	0	0.025	0.738	0.278	0.208	0.184	0.000	0	0	0.119
9	2027	0	0	0	0	0.014	0.684	0.289	0.202	0.237	0.000	0	0	0.119
10	2028	0	0	0	0	0.032	0.767	0.278	0.208	0.236	0.001	0	0	0.127
11	2029	0	0	0	0	0.026	0.688	0.322	0.193	0.181	0.000	0	0	0.117
12	2030	0	0	0	0	0.034	0.709	0.272	0.197	0.228	0.000	0	0	0.120
13	2031	0	0	0	0	0.019	0.680	0.253	0.222	0.231	0.000	0	0	0.117
14	2032	0	0	0	0	0.047	0.764	0.282	0.199	0.191	0.000	0	0	0.123
15	2033	0	0	0	0	0.046	0.868	0.290	0.208	0.197	0.000	0	0	0.134
16	2034	0	0	0	0	0.067	0.884	0.292	0.206	0.199	0.000	0	0	0.137
17	2035	0	0	0	0	0.046	0.821	0.282	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 P-7. Simulated Project-affected 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	0.556	0.248	0.135	0.122	0	0	0	0.088
4	2022	0	0	0	0	0	0.521	0.235	0.129	0.117	0	0	0	0.083
5	2023	0	0	0	0	0	0.490	0.222	0.123	0.113	0	0	0	0.079
6	2024	0	0	0	0	0	0.480	0.218	0.121	0.111	0	0	0	0.077
7	2025	0	0	0	0	0	0.479	0.217	0.121	0.111	0	0	0	0.077
8	2026	0	0	0	0	0	0.483	0.216	0.120	0.111	0	0	0	0.077
9	2027	0	0	0	0	0	0.483	0.215	0.120	0.111	0	0	0	0.077
10	2028	0	0	0	0	0	0.486	0.215	0.120	0.111	0	0	0	0.077
11	2029	0	0	0	0	0	0.487	0.214	0.119	0.109	0	0	0	0.077
12	2030	0	0	0	0	0	0.465	0.205	0.114	0.106	0	0	0	0.074
13	2031	0	0	0	0	0	0.454	0.200	0.112	0.105	0	0	0	0.072
14	2032	0	0	0	0	0	0.493	0.218	0.123	0.116	0	0	0	0.079
15	2033	0	0	0	0	0	0.552	0.238	0.132	0.122	0	0	0	0.087
16	2034	0	0	0	0	0	0.578	0.245	0.135	0.124	0	0	0	0.090
17	2035	0	0	0	0	0	0.583	0.246	0.135	0.124	0	0	0	0.090
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 P-8. Simulated Project-affected 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	0.304	0.108	0.069	0.077	0	0	0	0.046
4	2022	0	0	0	0	0	0.302	0.097	0.063	0.072	0	0	0	0.044
5	2023	0	0	0	0	0	0.256	0.099	0.063	0.068	0	0	0	0.040
6	2024	0	0	0	0	0	0.268	0.088	0.057	0.059	0	0	0	0.039
7	2025	0	0	0	0	0	0.259	0.095	0.066	0.058	0	0	0	0.040
8	2026	0	0	0	0	0	0.253	0.082	0.051	0.066	0	0	0	0.037
9	2027	0	0	0	0	0	0.265	0.094	0.056	0.057	0	0	0	0.039
10	2028	0	0	0	0	0	0.271	0.079	0.062	0.058	0	0	0	0.039
11	2029	0	0	0	0	0	0.265	0.094	0.061	0.065	0	0	0	0.040
12	2030	0	0	0	0	0	0.249	0.074	0.052	0.055	0	0	0	0.036
13	2031	0	0	0	0	0	0.250	0.078	0.054	0.061	0	0	0	0.037
14	2032	0	0	0	0	0	0.275	0.090	0.060	0.062	0	0	0	0.040
15	2033	0	0	0	0	0	0.314	0.116	0.070	0.064	0	0	0	0.047
16	2034	0	0	0	0	0	0.373	0.121	0.068	0.079	0	0	0	0.053
17	2035	0	0	0	0	0	0.322	0.100	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 P-9. Simulated Project-affected 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	1.152	0.325	0.254	0.231	0	0	0	0.170
4	2022	0	0	0	0	0.082	0.941	0.330	0.277	0.237	0	0	0	0.155
5	2023	0	0	0	0	0.082	0.908	0.299	0.268	0.271	0	0	0	0.152
6	2024	0	0	0	0	0.084	0.929	0.317	0.262	0.239	0	0	0	0.152
7	2025	0	0	0	0	0.082	0.925	0.309	0.268	0.231	0	0	0	0.151
8	2026	0	0	0	0	0.089	0.916	0.309	0.260	0.266	0	0	0	0.153
9	2027	0	0	0	0	0.045	0.869	0.325	0.261	0.231	0	0	0	0.144
10	2028	0	0	0	0	0.122	1.029	0.309	0.269	0.266	0	0	0	0.166
11	2029	0	0	0	0	0.082	0.872	0.343	0.228	0.213	0	0	0	0.145
12	2030	0	0	0	0	0.113	0.906	0.303	0.253	0.226	0	0	0	0.150
13	2031	0	0	0	0	0.077	0.895	0.288	0.269	0.275	0	0	0	0.150
14	2032	0	0	0	0	0.123	0.978	0.313	0.277	0.247	0	0	0	0.161
15	2033	0	0	0	0	0.100	1.051	0.321	0.252	0.246	0	0	0	0.164
16	2034	0	0	0	0	0.154	1.072	0.339	0.249	0.231	0	0	0	0.170
17	2035	0	0	0	0	0.073	1.030	0.352	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 P-10. Simulated Project-affected 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	1.787	0.474	0.312	0.289	0.001	0	0	0.237
4	2022	0	0	0	0	0	1.758	0.460	0.305	0.284	0.001	0	0	0.233
5	2023	0	0	0	0	0	1.732	0.445	0.298	0.279	0.001	0	0	0.229
6	2024	0	0	0	0	0	1.726	0.441	0.297	0.279	0.001	0	0	0.228
7	2025	0	0	0	0	0	1.727	0.440	0.297	0.279	0.001	0	0	0.227
8	2026	0	0	0	0	0	1.733	0.439	0.296	0.278	0.001	0	0	0.228
9	2027	0	0	0	0	0	1.736	0.438	0.296	0.278	0.001	0	0	0.228
10	2028	0	0	0	0	0.000	1.744	0.439	0.296	0.279	0.001	0	0	0.229
11	2029	0	0	0	0	0.001	1.746	0.438	0.295	0.278	0.001	0	0	0.229
12	2030	0	0	0	0	0.000	1.729	0.428	0.291	0.275	0.001	0	0	0.226
13	2031	0	0	0	0	0.000	1.721	0.422	0.288	0.273	0.001	0	0	0.224
14	2032	0	0	0	0	0.000	1.758	0.442	0.301	0.285	0.001	0	0	0.231
15	2033	0	0	0	0	0.001	1.815	0.465	0.311	0.292	0.001	0	0	0.239
16	2034	0	0	0	0	0.001	1.841	0.473	0.314	0.294	0.001	0	0	0.243
17	2035	0	0	0	0	0.001	1.849	0.475	0.315	0.295	0.001	0	0	0.243
18	2036	0	0	0	0	0.001	1.855	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 P-11. Simulated Project-affected 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	0.782	0.208	0.182	0.153	0	0	0	0.110
4	2022	0	0	0	0	0	0.795	0.200	0.145	0.153	0	0	0	0.107
5	2023	0	0	0	0	0	0.742	0.182	0.133	0.143	0	0	0	0.100
6	2024	0	0	0	0	0	0.682	0.185	0.137	0.149	0	0	0	0.096
7	2025	0	0	0	0	0	0.718	0.198	0.179	0.141	0	0	0	0.103
8	2026	0	0	0	0	0	0.708	0.183	0.136	0.158	0	0	0	0.098
9	2027	0	0	0	0	0	0.729	0.174	0.131	0.144	0	0	0	0.098
10	2028	0	0	0	0	0	0.717	0.184	0.140	0.140	0	0	0	0.098
11	2029	0	0	0	0	0	0.711	0.185	0.141	0.139	0	0	0	0.098
12	2030	0	0	0	0	0	0.689	0.176	0.134	0.145	0	0	0	0.095
13	2031	0	0	0	0	0	0.702	0.167	0.124	0.136	0	0	0	0.094
14	2032	0	0	0	0	0	0.700	0.189	0.140	0.153	0	0	0	0.098
15	2033	0	0	0	0	0	0.735	0.204	0.149	0.129	0	0	0	0.101
16	2034	0	0	0	0	0	0.777	0.211	0.146	0.187	0	0	0	0.110
17	2035	0	0	0	0	0	0.743	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	0.732	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 P-12. Simulated Project-affected 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	2.590	0.693	0.771	0.554	0.151	0	0	0.477
4	2022	0	0	0	0	0.985	2.558	0.694	0.728	0.645	0.147	0	0	0.480
5	2023	0	0	0	0	1.012	2.419	0.783	0.782	0.546	0.166	0	0	0.477
6	2024	0	0	0	0	1.230	2.358	0.675	0.719	0.546	0.150	0	0	0.474
7	2025	0	0	0	0	1.065	2.289	0.815	0.734	0.618	0.156	0	0	0.474
8	2026	0	0	0	0	1.094	2.446	0.672	0.749	0.545	0.148	0	0	0.472
9	2027	0	0	0	0	1.010	2.450	0.782	0.708	0.620	0.170	0	0	0.479
10	2028	0	0	0	0	1.290	2.313	0.673	0.774	0.621	0.151	0	0	0.486
11	2029	0	0	0	0	1.231	2.461	0.819	0.667	0.545	0.152	0	0	0.491
12	2030	0	0	0	0	1.222	2.273	0.662	0.744	0.640	0.158	0	0	0.476
13	2031	0	0	0	0	1.175	2.219	0.726	0.698	0.616	0.169	0	0	0.468
14	2032	0	0	0	0	1.350	2.305	0.828	0.730	0.630	0.170	0	0	0.503
15	2033	0	0	0	0	1.253	2.257	0.696	0.741	0.560	0.170	0	0	0.474
16	2034	0	0	0	0	1.377	2.534	0.655	0.698	0.527	0.156	0	0	0.497
17	2035	0	0	0	0	1.066	2.353	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 P-13. Simulated Project-affected 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	1.666	0.587	0.305	0.294	0.151	0.003	0	0.250
1	2019	0	0	0	0	0	1.546	0.577	0.299	0.288	0.147	0.003	0	0.238
2	2020	0	0	0	0	0	1.527	0.578	0.301	0.292	0.150	0.003	0	0.237
3	2021	0	0	0	0	0	1.570	0.586	0.313	0.303	0.160	0.004	0	0.244
4	2022	0	0	0	0	0	1.653	0.573	0.304	0.296	0.157	0.006	0	0.249
5	2023	0	0	0	0	0	1.618	0.555	0.294	0.289	0.154	0.006	0	0.242
6	2024	0	0	0	0	0	1.604	0.548	0.291	0.287	0.154	0.006	0	0.240
7	2025	0	0	0	0	0	1.606	0.546	0.290	0.287	0.154	0.006	0	0.240
8	2026	0	0	0	0	0	1.616	0.542	0.289	0.287	0.154	0.006	0	0.241
9	2027	0	0	0	0	0	1.620	0.542	0.289	0.287	0.154	0.006	0	0.241
10	2028	0	0	0	0	0	1.630	0.541	0.289	0.287	0.155	0.007	0	0.242
11	2029	0	0	0	0	0	1.356	0.533	0.288	0.286	0.130	0.005	0	0.216
12	2030	0	0	0	0	0	1.205	0.515	0.283	0.283	0.129	0.005	0	0.201
13	2031	0	0	0	0	0	1.204	0.509	0.281	0.283	0.130	0.006	0	0.201
14	2032	0	0	0	0	0	1.430	0.542	0.299	0.300	0.152	0.011	0	0.227
15	2033	0	0	0	0	0	1.709	0.582	0.316	0.312	0.169	0.016	0	0.258
16	2034	0	0	0	0	0.000	1.802	0.593	0.320	0.315	0.169	0.017	0	0.267
17	2035	0	0	0	0	0.001	1.880	0.613	0.340	0.336	0.185	0.021	0	0.281
18	2036	0	0	0	0	0.005	2.056	0.638	0.362	0.358	0.196	0.021	0	0.302
19	2037	0	0	0	0	0.005	2.059	0.638	0.362	0.358	0.197	0.021	0	0.302
20	2038	0	0	0	0	0.005	2.065	0.637	0.362	0.358	0.197	0.021	0	0.303
21	2039	0	0	0	0	0.006	2.071	0.637	0.362	0.359	0.197	0.023	0	0.304
22	2040	0	0	0	0	0.006	2.076	0.637	0.362	0.359	0.197	0.023	0	0.304

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 P-14. Simulated Project-affected 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	0.800	0.223	0.120	0.128	0.096	0	0	0.114
1	2019	0	0	0	0	0	0.799	0.203	0.131	0.160	0.079	0	0	0.114
2	2020	0	0	0	0	0	0.738	0.216	0.115	0.125	0.084	0	0	0.106
3	2021	0	0	0	0	0	0.723	0.209	0.125	0.157	0.098	0	0	0.109
4	2022	0	0	0	0	0	0.801	0.201	0.133	0.185	0.100	0	0	0.118
5	2023	0	0	0	0	0	0.777	0.198	0.112	0.124	0.099	0	0	0.109
6	2024	0	0	0	0	0	0.730	0.183	0.102	0.123	0.088	0	0	0.102
7	2025	0	0	0	0	0	0.765	0.186	0.148	0.122	0.088	0	0	0.109
8	2026	0	0	0	0	0	0.691	0.187	0.106	0.141	0.100	0	0	0.102
9	2027	0	0	0	0	0	0.752	0.182	0.127	0.122	0.087	0	0	0.105
10	2028	0	0	0	0	0	0.755	0.178	0.123	0.141	0.089	0	0	0.107
11	2029	0	0	0	0	0	0.609	0.179	0.125	0.140	0.079	0	0	0.094
12	2030	0	0	0	0	0	0.473	0.172	0.100	0.128	0.084	0	0	0.080
13	2031	0	0	0	0	0	0.486	0.152	0.101	0.118	0.079	0	0	0.078
14	2032	0	0	0	0	0	0.657	0.176	0.131	0.131	0.087	0	0	0.098
15	2033	0	0	0	0	0	0.722	0.199	0.128	0.139	0.113	0	0	0.108
16	2034	0	0	0	0	0	0.828	0.219	0.125	0.206	0.119	0	0	0.124
17	2035	0	0	0	0	0	0.778	0.221	0.157	0.158	0.121	0	0	0.119
18	2036	0	0	0	0	0	0.803	0.259	0.167	0.171	0.138	0	0	0.128
19	2037	0	0	0	0	0.006	0.781	0.245	0.165	0.181	0.142	0	0	0.126
20	2038	0	0	0	0	0	0.772	0.246	0.163	0.191	0.138	0	0	0.126
21	2039	0	0	0	0	0.006	0.778	0.240	0.163	0.213	0.144	0	0	0.128
22	2040	0	0	0	0	0.023	0.753	0.259	0.165	0.170	0.139	0	0	0.126

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 P-15. Simulated Project-affected 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	0.955	2.546	0.870	0.847	0.648	0.305	0.093	0	0.523
1	2019	0	0	0	0	0.651	2.552	0.853	0.843	0.715	0.313	0.093	0	0.502
2	2020	0	0	0	0	0.909	2.442	0.904	0.865	0.721	0.350	0.089	0	0.524
3	2021	0	0	0	0	0.607	2.539	0.788	0.828	0.686	0.302	0.099	0	0.488
4	2022	0	0	0	0	0.735	2.689	0.824	0.843	0.729	0.299	0.102	0	0.519
5	2023	0	0	0	0.000	0.660	2.478	0.764	0.844	0.719	0.332	0.098	0	0.492
6	2024	0	0	0	0	1.089	2.456	0.846	0.799	0.688	0.320	0.094	0	0.526
7	2025	0	0	0	0	0.783	2.456	0.790	0.848	0.719	0.296	0.102	0	0.500
8	2026	0	0	0	0.000	0.807	2.557	0.785	0.830	0.671	0.295	0.106	0	0.505
9	2027	0	0	0	0	0.756	2.418	0.828	0.831	0.672	0.383	0.102	0	0.500
10	2028	0	0	0	0.000	1.116	2.592	0.784	0.893	0.724	0.290	0.096	0	0.542
11	2029	0	0	0	0	0.649	2.258	0.814	0.716	0.672	0.289	0.076	0	0.457
12	2030	0	0	0	0	0.539	2.187	0.740	0.823	0.718	0.268	0.079	0	0.447
13	2031	0	0	0	0	0.518	2.129	0.746	0.820	0.720	0.301	0.083	0	0.444
14	2032	0	0	0	0	0.948	2.499	0.805	0.873	0.711	0.331	0.095	0	0.523
15	2033	0	0	0	0.000	0.920	2.522	0.854	0.897	0.701	0.336	0.114	0	0.530
16	2034	0	0	0	0.002	1.232	2.750	0.859	0.762	0.703	0.318	0.114	0	0.563
17	2035	0	0	0	0.004	1.144	2.656	0.869	0.895	0.755	0.461	0.122	0	0.577
18	2036	0	0	0	0.011	1.346	2.837	0.915	0.963	0.802	0.436	0.113	0	0.620
19	2037	0	0	0	0.012	1.444	2.781	0.929	0.989	0.761	0.378	0.131	0	0.620
20	2038	0	0	0	0.017	1.278	2.833	0.912	0.964	0.809	0.366	0.141	0	0.611
21	2039	0	0	0	0.006	1.356	2.783	0.943	0.957	0.787	0.374	0.127	0	0.613
22	2040	0	0	0	0.012	1.412	2.829	0.921	0.993	0.802	0.380	0.121	0	0.624

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 P-16. Simulated Project-affected 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	6.539	1.700	1.082	1.064	0.522	0.007	0	0.906
1	2019	0	0	0	0	0	6.304	1.682	1.069	1.052	0.516	0.006	0	0.883
2	2020	0	0	0	0	0	6.269	1.683	1.075	1.061	0.523	0.007	0	0.882
3	2021	0	0	0	0	0	6.362	1.701	1.099	1.085	0.543	0.008	0	0.897
4	2022	0	0	0	0	0	6.532	1.677	1.082	1.072	0.538	0.011	0	0.906
5	2023	0	0	0	0	0	6.470	1.641	1.063	1.059	0.532	0.011	0	0.895
6	2024	0	0	0	0	0	6.451	1.627	1.058	1.056	0.532	0.011	0	0.891
7	2025	0	0	0	0	0	6.458	1.625	1.058	1.057	0.532	0.011	0	0.892
8	2026	0	0	0	0	0	6.481	1.619	1.057	1.057	0.533	0.011	0	0.893
9	2027	0	0	0	0	0	6.497	1.619	1.058	1.058	0.534	0.011	0	0.894
10	2028	0	0	0	0	0.038	6.489	1.618	1.058	1.059	0.537	0.015	0	0.898
11	2029	0	0	0	0	0.038	5.945	1.602	1.058	1.059	0.488	0.009	0	0.847
12	2030	0	0	0	0	0.038	5.648	1.567	1.047	1.053	0.488	0.010	0	0.818
13	2031	0	0	0	0	0.038	5.652	1.556	1.044	1.053	0.489	0.012	0	0.818
14	2032	0	0	0	0	0.038	6.111	1.625	1.082	1.088	0.533	0.022	0	0.872
15	2033	0	0	0	0	0.039	6.674	1.705	1.116	1.114	0.567	0.031	0	0.934
16	2034	0	0	0	0	0.039	6.863	1.728	1.125	1.120	0.569	0.035	0	0.953
17	2035	0	0	0	0	0.041	7.025	1.769	1.165	1.162	0.602	0.041	0	0.980
18	2036	0	0	0	0	0.049	7.388	1.821	1.211	1.208	0.626	0.042	0	1.025
19	2037	0	0	0	0	0.049	7.396	1.820	1.212	1.209	0.627	0.042	0	1.026
20	2038	0	0	0	0	0.054	7.407	1.819	1.212	1.211	0.628	0.042	0	1.027
21	2039	0	0	0	0	0.063	7.419	1.820	1.213	1.212	0.629	0.046	0	1.029
22	2040	0	0	0	0	0.071	7.431	1.821	1.215	1.214	0.629	0.046	0	1.032

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 P-17. Simulated Project-affected 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	2.057	0.663	0.685	0.546	0.339	0	0	0.357
1	2019	0	0	0	0	0	1.962	0.703	0.545	0.568	0.295	0	0	0.339
2	2020	0	0	0	0	0	1.945	0.665	0.515	0.527	0.312	0	0	0.330
3	2021	0	0	0	0	0	1.920	0.654	0.680	0.561	0.315	0	0	0.344
4	2022	0	0	0	0	0	1.960	0.660	0.554	0.583	0.339	0	0	0.341
5	2023	0	0	0	0	0	2.011	0.731	0.554	0.547	0.320	0	0	0.347
6	2024	0	0	0	0	0	1.732	0.599	0.504	0.545	0.329	0	0	0.309
7	2025	0	0	0	0	0	1.895	0.716	0.646	0.550	0.319	0	0	0.344
8	2026	0	0	0	0	0	1.761	0.614	0.531	0.550	0.345	0	0	0.316
9	2027	0	0	0	0	0	1.887	0.598	0.529	0.545	0.313	0	0	0.322
10	2028	0	0	0	0	0	1.806	0.608	0.570	0.538	0.320	0	0	0.320
11	2029	0	0	0	0	0	1.623	0.594	0.642	0.549	0.289	0	0	0.308
12	2030	0	0	0	0	0	1.616	0.579	0.636	0.532	0.329	0	0	0.308
13	2031	0	0	0	0	0	1.605	0.672	0.517	0.545	0.293	0	0	0.303
14	2032	0	0	0	0	0	1.604	0.613	0.509	0.560	0.320	0	0	0.300
15	2033	0	0	0	0	0	1.801	0.774	0.695	0.564	0.344	0	0	0.348
16	2034	0	0	0	0	0	1.816	0.676	0.560	0.616	0.372	0	0	0.336
17	2035	0	0	0	0	0	1.940	0.770	0.589	0.628	0.441	0	0	0.364
18	2036	0	0	0	0	0	1.815	0.858	0.765	0.635	0.405	0	0	0.374
19	2037	0	0	0	0	0.053	1.924	0.729	0.579	0.689	0.454	0	0	0.369
20	2038	0	0	0	0	0	1.824	0.757	0.764	0.634	0.412	0	0	0.366
21	2039	0	0	0	0	0.051	1.823	0.732	0.610	0.642	0.470	0	0	0.361
22	2040	0	0	0	0	0.472	1.801	0.761	0.779	0.691	0.465	0	0	0.415

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 P-18. Simulated Project-affected 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	5.780	8.044	2.605	2.913	2.196	1.515	0.187	0	1.945
1	2019	0	0	0	0	3.890	8.410	2.703	2.946	2.001	1.797	0.186	0	1.834
2	2020	0	0	0	0	4.719	7.813	3.462	2.918	2.198	1.664	0.178	0	1.921
3	2021	0	0	0	0	4.081	8.275	2.616	2.870	1.956	1.537	0.199	0	1.800
4	2022	0	0	0	0	5.018	8.322	2.512	3.122	1.953	1.540	0.205	0	1.897
5	2023	0	0	0	0.000	4.312	8.067	3.091	2.973	2.003	1.688	0.214	0	1.870
6	2024	0	0	0	0	5.447	7.747	2.448	2.884	2.189	1.706	0.189	0	1.892
7	2025	0	0	0	0	4.589	7.319	3.091	2.820	1.942	1.532	0.203	0	1.800
8	2026	0	0	0	0.004	4.704	8.052	2.440	2.875	1.943	1.543	0.212	0	1.821
9	2027	0	0	0	0	4.462	8.071	3.100	2.940	2.310	1.855	0.204	0	1.920
10	2028	0	0	0	0.045	6.052	7.535	2.573	3.115	1.949	1.552	0.192	0	1.928
11	2029	0	0	0	0	4.577	7.569	3.100	2.338	1.937	1.654	0.176	0	1.787
12	2030	0	0	0	0.045	4.271	6.925	2.533	2.865	1.940	1.477	0.158	0	1.692
13	2031	0	0	0	0.046	4.256	6.983	3.077	2.784	2.313	1.489	0.183	0	1.769
14	2032	0	0	0	0.085	4.861	7.118	3.149	2.882	1.986	1.744	0.189	0	1.844
15	2033	0	0	0	0.046	5.272	7.465	2.644	2.886	2.019	1.699	0.261	0	1.867
16	2034	0	0	0	0.050	5.548	8.268	2.337	2.636	2.003	1.596	0.250	0	1.898
17	2035	0	0	0	0.055	5.313	8.129	2.764	3.087	2.074	2.000	0.268	0	1.983
18	2036	0	0	0	0.069	6.142	8.152	2.830	3.065	2.382	1.961	0.227	0	2.079
19	2037	0	0	0	0.145	5.869	7.905	3.434	3.057	2.531	1.751	0.304	0	2.093
20	2038	0	0	0	0.155	5.806	8.221	2.830	3.132	2.129	1.750	0.324	0	2.038
21	2039	0	0	0	0.092	5.761	8.395	2.866	3.066	2.532	2.114	0.254	0	2.099
22	2040	0	0	0	0.070	5.974	7.716	3.452	3.072	2.137	1.762	0.241	0	2.047

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 P-19. Simulated Project-affected 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	0.171	0.074	0.025	0.023	0	0	0	0.024
1	2019	0	0	0	0	0	0.172	0.074	0.025	0.023	0	0	0	0.025
2	2020	0	0	0	0	0	0.173	0.074	0.025	0.023	0	0	0	0.025
3	2021	0	0	0	0	0	0.173	0.074	0.025	0.023	0	0	0	0.025
4	2022	0	0	0	0	0	0.173	0.074	0.025	0.023	0	0	0	0.024
5	2023	0	0	0	0	0	0.173	0.074	0.024	0.023	0	0	0	0.024
6	2024	0	0	0	0	0	0.174	0.073	0.024	0.023	0	0	0	0.024
7	2025	0	0	0	0	0	0.174	0.073	0.024	0.022	0	0	0	0.024
8	2026	0	0	0	0	0	0.175	0.072	0.024	0.022	0	0	0	0.024
9	2027	0	0	0	0	0	0.176	0.072	0.024	0.022	0	0	0	0.024
10	2028	0	0	0	0	0	0.177	0.072	0.024	0.022	0	0	0	0.024
11	2029	0	0	0	0	0	0.177	0.072	0.023	0.022	0	0	0	0.024
12	2030	0	0	0	0	0	0.177	0.072	0.023	0.022	0	0	0	0.024
13	2031	0	0	0	0	0	0.178	0.072	0.023	0.022	0	0	0	0.024
14	2032	0	0	0	0	0	0.179	0.072	0.023	0.022	0	0	0	0.025
15	2033	0	0	0	0	0	0.180	0.072	0.023	0.022	0	0	0	0.025
16	2034	0	0	0	0	0	0.180	0.071	0.023	0.022	0	0	0	0.025
17	2035	0	0	0	0	0	0.187	0.074	0.024	0.023	0	0	0	0.026
18	2036	0	0	0	0	0	0.194	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 P-20. Simulated Project-affected 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	0.075	0.017	0.003	0.004	0	0	0	0.008
1	2019	0	0	0	0	0	0.079	0.017	0.004	0.004	0	0	0	0.009
2	2020	0	0	0	0	0	0.093	0.019	0.003	0.004	0	0	0	0.010
3	2021	0	0	0	0	0	0.079	0.016	0.003	0.003	0	0	0	0.008
4	2022	0	0	0	0	0	0.079	0.016	0.003	0.003	0	0	0	0.008
5	2023	0	0	0	0	0	0.079	0.016	0.003	0.003	0	0	0	0.008
6	2024	0	0	0	0	0	0.083	0.016	0.002	0.003	0	0	0	0.009
7	2025	0	0	0	0	0	0.080	0.017	0.004	0.003	0	0	0	0.009
8	2026	0	0	0	0	0	0.078	0.015	0.002	0.003	0	0	0	0.008
9	2027	0	0	0	0	0	0.077	0.016	0.003	0.003	0	0	0	0.008
10	2028	0	0	0	0	0	0.089	0.015	0.003	0.003	0	0	0	0.009
11	2029	0	0	0	0	0	0.077	0.019	0.003	0.003	0	0	0	0.009
12	2030	0	0	0	0	0	0.077	0.015	0.002	0.003	0	0	0	0.008
13	2031	0	0	0	0	0	0.091	0.014	0.002	0.003	0	0	0	0.009
14	2032	0	0	0	0	0	0.078	0.014	0.002	0.003	0	0	0	0.008
15	2033	0	0	0	0	0	0.078	0.014	0.002	0.003	0	0	0	0.008
16	2034	0	0	0	0	0	0.093	0.019	0.001	0.003	0	0	0	0.010
17	2035	0	0	0	0	0	0.080	0.015	0.003	0.003	0	0	0	0.008
18	2036	0	0	0	0	0	0.101	0.019	0.004	0.003	0	0	0	0.010
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 P-21. Simulated Project-affected 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	0.343	0.108	0.084	0.079	0	0	0	0.051
1	2019	0	0	0	0	0	0.345	0.115	0.077	0.105	0	0	0	0.053
2	2020	0	0	0	0	0	0.352	0.142	0.084	0.105	0	0	0	0.057
3	2021	0	0	0	0	0	0.440	0.115	0.077	0.078	0	0	0	0.059
4	2022	0	0	0	0	0	0.346	0.117	0.079	0.078	0	0	0	0.051
5	2023	0	0	0	0	0	0.358	0.109	0.083	0.105	0	0	0	0.054
6	2024	0	0	0	0	0	0.362	0.117	0.080	0.078	0	0	0	0.053
7	2025	0	0	0	0	0	0.369	0.115	0.079	0.105	0	0	0	0.055
8	2026	0	0	0	0	0	0.365	0.115	0.079	0.077	0	0	0	0.053
9	2027	0	0	0	0	0	0.332	0.118	0.076	0.105	0	0	0	0.052
10	2028	0	0	0	0	0	0.379	0.116	0.079	0.106	0	0	0	0.056
11	2029	0	0	0	0	0	0.333	0.134	0.074	0.077	0	0	0	0.051
12	2030	0	0	0	0	0	0.371	0.115	0.077	0.106	0	0	0	0.056
13	2031	0	0	0	0	0	0.368	0.099	0.095	0.106	0	0	0	0.055
14	2032	0	0	0	0	0	0.382	0.116	0.075	0.078	0	0	0	0.054
15	2033	0	0	0	0	0	0.392	0.115	0.069	0.076	0	0	0	0.054
16	2034	0	0	0	0	0	0.389	0.115	0.068	0.076	0	0	0	0.054
17	2035	0	0	0	0	0	0.360	0.102	0.079	0.094	0	0	0	0.053
18	2036	0	0	0	0	0	0.416	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 P-22. Simulated Project-affected 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	0.716	0.107	0.073	0.113	0.045	0	0	0.087
1	2019	0	0	0	0	0	0.718	0.107	0.073	0.113	0.046	0	0	0.087
2	2020	0	0	0	0	0	0.720	0.106	0.073	0.113	0.046	0	0	0.088
3	2021	0	0	0	0	0	0.720	0.106	0.073	0.113	0.046	0	0	0.088
4	2022	0	0	0	0	0	0.721	0.106	0.073	0.113	0.046	0	0	0.088
5	2023	0	0	0	0	0	0.722	0.106	0.072	0.113	0.046	0	0	0.088
6	2024	0	0	0	0	0	0.724	0.105	0.072	0.113	0.046	0	0	0.088
7	2025	0	0	0	0	0	0.725	0.105	0.072	0.113	0.046	0	0	0.088
8	2026	0	0	0	0	0	0.727	0.105	0.072	0.113	0.046	0	0	0.088
9	2027	0	0	0	0	0	0.728	0.104	0.072	0.113	0.046	0	0	0.088
10	2028	0	0	0	0	0	0.731	0.104	0.072	0.113	0.047	0	0	0.088
11	2029	0	0	0	0	0	0.732	0.104	0.072	0.113	0.047	0	0	0.088
12	2030	0	0	0	0	0	0.733	0.104	0.071	0.113	0.047	0	0	0.088
13	2031	0	0	0	0	0	0.734	0.104	0.071	0.113	0.047	0	0	0.089
14	2032	0	0	0	0	0	0.737	0.104	0.071	0.113	0.047	0	0	0.089
15	2033	0	0	0	0	0	0.738	0.104	0.071	0.113	0.047	0	0	0.089
16	2034	0	0	0	0	0	0.740	0.103	0.071	0.114	0.047	0	0	0.089
17	2035	0	0	0	0	0	0.747	0.106	0.073	0.115	0.048	0	0	0.090
18	2036	0	0	0	0	0	0.755	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 P-23. Simulated Project-affected 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	0.095	0.003	0.024	0.029	0.025	0	0	0.015
1	2019	0	0	0	0	0	0.052	0.014	0.016	0.029	0.028	0	0	0.012
2	2020	0	0	0	0	0	0.094	0.008	0.015	0.026	0.024	0	0	0.014
3	2021	0	0	0	0	0	0.084	0.015	0.023	0.028	0.016	0	0	0.014
4	2022	0	0	0	0	0	0.084	0.006	0.014	0.029	0.026	0	0	0.013
5	2023	0	0	0	0	0	0.093	0.013	0	0.028	0.025	0	0	0.013
6	2024	0	0	0	0	0	0.083	0.015	0.012	0.028	0.024	0	0	0.013
7	2025	0	0	0	0	0	0.083	0.015	0.023	0.026	0.025	0	0	0.014
8	2026	0	0	0	0	0	0.126	0.009	0.011	0.028	0.025	0	0	0.017
9	2027	0	0	0	0	0	0.048	0.005	0	0.027	0.027	0	0	0.009
10	2028	0	0	0	0	0	0.090	0.014	0.021	0.026	0.025	0	0	0.015
11	2029	0	0	0	0	0	0.083	0.014	0.022	0.033	0.021	0	0	0.014
12	2030	0	0	0	0	0	0.083	0.013	0.022	0.028	0.030	0	0	0.015
13	2031	0	0	0	0	0	0.126	0.011	0	0.029	0.025	0	0	0.016
14	2032	0	0	0	0	0	0.083	0.010	0.008	0.027	0.025	0	0	0.013
15	2033	0	0	0	0	0	0.083	0.013	0.022	0.026	0.021	0	0	0.014
16	2034	0	0	0	0	0	0.122	0.012	0.007	0.028	0.025	0	0	0.016
17	2035	0	0	0	0	0	0.087	0.014	0	0.029	0.030	0	0	0.013
18	2036	0	0	0	0	0	0.091	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 P-24. Simulated Project-affected 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	0.877	0.260	0.302	0.225	0.206	0	0	0.203
1	2019	0	0	0	0	0.564	0.929	0.341	0.286	0.202	0.241	0.002	0	0.215
2	2020	0	0	0	0	0.562	0.905	0.384	0.301	0.226	0.198	0	0	0.216
3	2021	0	0	0	0	0.591	0.922	0.261	0.247	0.199	0.199	0	0	0.202
4	2022	0	0	0	0	0.555	0.922	0.206	0.353	0.199	0.200	0.002	0	0.204
5	2023	0	0	0	0	0.587	0.939	0.342	0.302	0.202	0.212	0.002	0	0.216
6	2024	0	0	0	0	0.567	0.801	0.222	0.287	0.226	0.218	0	0	0.194
7	2025	0	0	0	0	0.643	0.765	0.343	0.247	0.200	0.201	0	0	0.201
8	2026	0	0	0	0.001	0.644	0.893	0.205	0.299	0.200	0.209	0.002	0	0.205
9	2027	0	0	0	0	0.556	0.887	0.344	0.288	0.259	0.219	0.002	0	0.214
10	2028	0	0	0	0.009	0.701	0.802	0.263	0.354	0.201	0.202	0	0	0.212
11	2029	0	0	0	0	0.562	0.833	0.345	0.204	0.199	0.220	0.003	0	0.198
12	2030	0	0	0	0.009	0.565	0.802	0.263	0.298	0.201	0.203	0.002	0	0.196
13	2031	0	0	0	0.009	0.566	0.831	0.346	0.288	0.260	0.210	0.005	0	0.211
14	2032	0	0	0	0.017	0.565	0.809	0.347	0.249	0.202	0.221	0	0	0.202
15	2033	0	0	0	0.009	0.655	0.821	0.264	0.285	0.202	0.221	0.006	0	0.207
16	2034	0	0	0	0.009	0.657	0.831	0.203	0.203	0.199	0.204	0.006	0	0.194
17	2035	0	0	0	0.009	0.570	0.840	0.267	0.292	0.206	0.222	0.006	0	0.202
18	2036	0	0	0	0.009	0.660	0.827	0.269	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 P-25. Simulated Project-affected 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 P-26. Simulated Project-affected 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 P-27. Simulated Project-affected 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 P-28. Simulated Project-affected 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	0.010	0.002	0.002	0	0	0	0.004
3	2021	0	0	0	0	0	0.030	0.010	0.002	0.002	0	0	0	0.004
4	2022	0	0	0	0	0	0.029	0.010	0.002	0.001	0	0	0	0.003
5	2023	0	0	0	0	0	0.028	0.010	0.002	0.001	0	0	0	0.003
6	2024	0	0	0	0	0	0.028	0.009	0.002	0.001	0	0	0	0.003
7	2025	0	0	0	0	0	0.028	0.009	0.002	0.001	0	0	0	0.003
8	2026	0	0	0	0	0	0.029	0.009	0.002	0.001	0	0	0	0.003
9	2027	0	0	0	0	0	0.029	0.009	0.002	0.001	0	0	0	0.003
10	2028	0	0	0	0	0	0.029	0.009	0.002	0.001	0	0	0	0.003
11	2029	0	0	0	0	0	0.029	0.009	0.002	0.001	0	0	0	0.003
12	2030	0	0	0	0	0	0.029	0.009	0.002	0.001	0	0	0	0.003
13	2031	0	0	0	0	0	0.029	0.009	0.001	0.001	0	0	0	0.003
14	2032	0	0	0	0	0	0.031	0.010	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 P-29. Simulated Project-affected 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	0.011	0.001	0.000	0	0	0	0	0.001
4	2022	0	0	0	0	0	0.010	0.001	0.000	0	0	0	0	0.001
5	2023	0	0	0	0	0	0.010	0.001	0.000	0	0	0	0	0.001
6	2024	0	0	0	0	0	0.010	0.000	0	0	0	0	0	0.001
7	2025	0	0	0	0	0	0.010	0.001	0.000	0	0	0	0	0.001
8	2026	0	0	0	0	0	0.010	0.001	0.000	0	0	0	0	0.001
9	2027	0	0	0	0	0	0.010	0.000	0	0	0	0	0	0.001
10	2028	0	0	0	0	0	0.010	0.000	0.000	0	0	0	0	0.001
11	2029	0	0	0	0	0	0.010	0.001	0	0	0	0	0	0.001
12	2030	0	0	0	0	0	0.010	0.001	0	0	0	0	0	0.001
13	2031	0	0	0	0	0	0.011	0.001	0	0	0	0	0	0.001
14	2032	0	0	0	0	0	0.011	0.001	0.000	0	0	0	0	0.001
15	2033	0	0	0	0	0	0.012	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 P-30. Simulated Project-affected 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	0.060	0.022	0.011	0.015	0	0	0	0.009
3	2021	0	0	0	0	0	0.078	0.016	0.009	0.011	0	0	0	0.009
4	2022	0	0	0	0	0	0.058	0.017	0.009	0.010	0	0	0	0.008
5	2023	0	0	0	0	0	0.061	0.015	0.010	0.015	0	0	0	0.008
6	2024	0	0	0	0	0	0.060	0.017	0.010	0.010	0	0	0	0.008
7	2025	0	0	0	0	0	0.063	0.015	0.009	0.014	0	0	0	0.008
8	2026	0	0	0	0	0	0.062	0.015	0.010	0.010	0	0	0	0.008
9	2027	0	0	0	0	0	0.057	0.017	0.009	0.012	0	0	0	0.008
10	2028	0	0	0	0	0	0.065	0.015	0.010	0.014	0	0	0	0.009
11	2029	0	0	0	0	0	0.059	0.020	0.008	0.010	0	0	0	0.008
12	2030	0	0	0	0	0	0.062	0.015	0.009	0.014	0	0	0	0.008
13	2031	0	0	0	0	0	0.061	0.014	0.010	0.015	0	0	0	0.008
14	2032	0	0	0	0	0	0.067	0.016	0.010	0.016	0	0	0	0.009
15	2033	0	0	0	0	0	0.070	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 P-31. Simulated Project-affected 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 P-32. Simulated Project-affected Outflow of Aimaokatalok 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 P-33. Simulated Project-affected Outflow of Aimaokatalok 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 P-34. Simulated Project-affected 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	5.45	5.42	2.45	0.45	0	5.06
2	2020	0	0	0	0	0	38.28	9.07	5.45	5.41	2.44	0.45	0	5.07
3	2021	0	0	0	0	0	38.33	9.07	5.47	5.42	2.45	0.45	0	5.08
4	2022	0	0	0	0	0	38.41	9.08	5.47	5.44	2.48	0.45	0	5.09
5	2023	0	0	0	0	0	38.48	9.08	5.48	5.45	2.49	0.45	0	5.10
6	2024	0	0	0	0	0	38.58	9.09	5.49	5.46	2.50	0.45	0	5.11
7	2025	0	0	0	0	0	38.66	9.09	5.50	5.47	2.50	0.45	0	5.12
8	2026	0	0	0	0	0	38.73	9.09	5.51	5.48	2.51	0.66	0	5.14
9	2027	0	0	0	0	0	38.62	9.09	5.52	5.49	2.52	0.66	0	5.13
10	2028	0	0	0	0	0	38.77	9.10	5.53	5.50	2.53	0.66	0	5.15
11	2029	0	0	0	0	0	38.81	9.11	5.54	5.51	2.54	0.66	0	5.16
12	2030	0	0	0	0	0	38.93	9.11	5.55	5.52	2.55	0.66	0	5.17
13	2031	0	0	0	0	0	39.04	9.09	5.56	5.53	2.56	0.66	0	5.18
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 P-35. Simulated Project-affected 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	12.70	3.70	2.25	2.48	0.67	0	0	1.81
3	2021	0	0	0	0	0	11.62	3.70	3.06	2.60	0.66	0	0	1.80
4	2022	0	0	0	0	0	12.04	3.77	2.05	3.05	0.82	0	0	1.80
5	2023	0	0	0	0	0	13.24	3.98	2.96	2.61	0.89	0	0	1.97
6	2024	0	0	0	0	0	11.60	3.32	2.25	3.05	0.84	0	0	1.75
7	2025	0	0	0	0	0	12.54	3.68	3.46	2.62	0.90	0	0	1.93
8	2026	0	0	0	0	0	12.03	3.78	2.26	3.25	0.84	0	0	1.84
9	2027	0	0	0	0	0	11.99	3.47	2.98	3.01	0.90	0	0	1.86
10	2028	0	0	0	0	0	11.99	3.98	2.25	2.63	0.69	0	0	1.79
11	2029	0	0	0	0	0	11.52	3.70	3.48	2.64	0.94	0	0	1.85
12	2030	0	0	0	0	0	10.50	3.59	2.26	3.09	0.85	0	0	1.69
13	2031	0	0	0	0	0	12.20	3.59	2.38	2.64	0.95	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 P-36. Simulated Project-affected 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	26.11	46.80	15.24	13.88	10.79	10.79	2.20	0	10.52
3	2021	0	0	0	0	21.24	50.66	12.33	13.61	10.29	9.08	2.21	0	9.97
4	2022	0	0	0	0	22.69	47.80	13.44	13.93	11.39	9.11	2.23	0	10.07
5	2023	0	0	0	0	21.80	47.84	14.33	15.58	10.34	10.09	1.89	0	10.19
6	2024	0	0	0	0	28.97	47.26	13.46	13.74	10.35	11.08	2.21	0	10.63
7	2025	0	0	0	0	22.73	42.79	14.34	13.85	10.90	9.18	1.97	0	9.68
8	2026	0	0	0	0.36	26.42	47.07	12.65	13.72	10.40	8.66	2.29	0	10.16
9	2027	0	0	0	0	22.87	47.18	14.40	13.73	10.94	11.97	2.56	0	10.33
10	2028	0	0	0	0.63	30.41	47.61	13.32	15.42	10.96	9.38	1.72	0	10.83
11	2029	0	0	0	0	24.22	47.76	14.45	12.49	10.46	11.95	2.00	0	10.31
12	2030	0	0	0	0	30.52	47.61	13.34	14.14	11.57	9.30	2.45	0	10.78
13	2031	0	0	0	0	23.76	47.96	14.50	13.79	11.03	10.71	2.63	0	10.39
14	2032	0	0	0	1.75	30.88	47.69	14.53	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 P-37. Simulated Project-affected 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	11.96	8.04	8.26	3.94	0.45	0	7.55
3	2021	0	0	0	0	0	58.41	11.97	8.05	8.28	3.95	0.45	0	7.55
4	2022	0	0	0	0	0	58.56	11.98	8.07	8.29	4.00	0.45	0	7.57
5	2023	0	0	0	0	0	58.64	11.99	8.08	8.31	4.01	0.45	0	7.59
6	2024	0	0	0	0	0	58.83	12.00	8.09	8.33	4.02	0.45	0	7.61
7	2025	0	0	0	0	0	58.91	12.01	8.11	8.34	4.03	0.45	0	7.62
8	2026	0	0	0	0	0	59.03	12.02	8.12	8.36	4.04	0.66	0	7.65
9	2027	0	0	0	0	0	58.99	12.03	8.14	8.38	4.05	0.66	0	7.65
10	2028	0	0	0	0	0	59.14	12.04	8.15	8.39	4.07	0.66	0	7.67
11	2029	0	0	0	0	0	59.26	12.05	8.17	8.41	4.08	0.66	0	7.68
12	2030	0	0	0	0	0	59.38	12.06	8.18	8.43	4.09	0.66	0	7.69
13	2031	0	0	0	0	0	59.53	12.04	8.20	8.44	4.10	0.66	0	7.71
14	2032	0	0	0	0	0	59.76	12.06	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 P-38. Simulated Project-affected 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	13.94	5.29	3.38	4.17	1.48	0	0	2.35
3	2021	0	0	0	0	0	13.33	5.06	4.63	4.18	1.47	0	0	2.39
4	2022	0	0	0	0	0	13.75	4.96	3.52	4.88	1.75	0	0	2.40
5	2023	0	0	0	0	0	14.49	5.38	4.80	4.27	1.59	0	0	2.54
6	2024	0	0	0	0	0	13.31	4.30	3.37	4.35	1.62	0	0	2.24
7	2025	0	0	0	0	0	13.79	4.88	4.88	4.21	1.80	0	0	2.46
8	2026	0	0	0	0	0	13.75	5.34	3.52	4.37	1.63	0	0	2.38
9	2027	0	0	0	0	0	13.72	4.34	3.52	4.30	1.63	0	0	2.29
10	2028	0	0	0	0	0	13.75	5.31	4.66	4.23	1.51	0	0	2.45
11	2029	0	0	0	0	0	13.29	4.90	5.17	4.69	1.51	0	0	2.46
12	2030	0	0	0	0	0	12.90	5.32	4.67	4.41	1.80	0	0	2.42
13	2031	0	0	0	0	0	13.21	5.01	3.52	4.35	2.05	0	0	2.34
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 P-39. Simulated Project-affected 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	18.87	20.74	14.32	20.23	2.38	0	15.42
2	2020	0	0	0	0	41.52	69.10	25.19	21.23	14.67	17.22	2.20	0	16.00
3	2021	0	0	0	0	35.82	69.10	18.17	20.57	13.77	15.65	2.37	0	14.67
4	2022	0	0	0	0	37.86	71.64	18.16	21.76	14.40	15.69	2.23	0	15.19
5	2023	0	0	0	0	37.02	69.79	22.84	22.58	15.15	16.68	2.32	0	15.59
6	2024	0	0	0	0	46.00	67.13	18.20	20.95	14.49	17.67	2.21	0	15.62
7	2025	0	0	0	0	38.01	59.45	22.89	21.45	14.65	15.80	2.36	0	14.62
8	2026	0	0	0	0.36	38.34	69.56	18.05	21.26	14.51	15.54	2.43	0	15.06
9	2027	0	0	0	0	38.19	69.71	22.98	21.08	15.99	19.19	2.56	0	15.87
10	2028	0	0	0	0.63	48.50	65.63	18.31	22.00	14.90	16.04	2.33	0	15.77
11	2029	0	0	0	0	44.32	68.75	23.07	16.72	13.99	19.27	2.43	0	15.78
12	2030	0	0	0	0	41.89	65.43	18.35	21.67	14.63	15.99	2.48	0	15.10
13	2031	0	0	0	0	42.30	68.56	18.80	20.89	16.12	17.70	2.63	0	15.64
14	2032	0	0	0	2.25	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.