

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



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 Flows at Wolverine Lake Outflow 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	0.072	0.002	0	0	0	0	0	0.006
1	2019	0	0	0	0	0	0.073	0.002	0	0	0	0	0	0.006
2	2020	0	0	0	0	0	0.073	0.002	0	0	0	0	0	0.006
3	2021	0	0	0	0	0	0.073	0.002	0	0	0	0	0	0.006
4	2022	0	0	0	0	0	0.073	0.002	0	0	0	0	0	0.006
5	2023	0	0	0	0	0	0.073	0.002	0	0	0	0	0	0.006
6	2024	0	0	0	0	0	0.073	0.002	0	0	0	0	0	0.006
7	2025	0	0	0	0	0	0.073	0.002	0	0	0	0	0	0.006
8	2026	0	0	0	0	0	0.074	0.002	0	0	0	0	0	0.006
9	2027	0	0	0	0	0	0.074	0.002	0	0	0	0	0	0.006
10	2028	0	0	0	0	0	0.074	0.002	0	0	0	0	0	0.006
11	2029	0	0	0	0	0	0.074	0.002	0	0	0	0	0	0.006
12	2030	0	0	0	0	0	0.061	0.001	0	0	0	0	0	0.005
13	2031	0	0	0	0	0	0.050	0.001	0	0	0	0	0	0.004
14	2032	0	0	0	0	0	0.049	0.001	0	0	0	0	0	0.004
15	2033	0	0	0	0	0	0.063	0.002	0	0	0	0	0	0.005
16	2034	0	0	0	0	0	0.075	0.002	0	0	0	0	0	0.006
17	2035	0	0	0	0	0	0.077	0.002	0	0	0	0	0	0.007
18	2036	0	0	0	0	0	0.078	0.002	0	0	0	0	0	0.007
19	2037	0	0	0	0	0	0.079	0.002	0	0	0	0	0	0.007
20	2038	0	0	0	0	0	0.079	0.002	0	0	0	0	0	0.007
21	2039	0	0	0	0	0	0.080	0.002	0	0	0	0	0	0.007
22	2040	0	0	0	0	0.000	0.080	0.002	0	0	0	0	0	0.007

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-2. Simulated Project-affected Flows at Wolverine Lake Outflow under 1-in-20-Year Dry Runoff Coonditions (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	0.002	0	0	0	0	0	0	0	0.000
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	0.002	0	0	0	0	0	0	0	0.000

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-3. Simulated Project-affected Flows at Wolverine Lake Outflow under 1-in-20-Year Wet Runoff Coonditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0.000	0.080	0.095	0.008	0.003	0.011	0.014	0.001	0	0.018
1	2019	0	0	0	0.000	0.065	0.097	0.008	0.003	0.011	0.015	0.002	0	0.017
2	2020	0	0	0	0.000	0.078	0.096	0.023	0.006	0.012	0.015	0.001	0	0.019
3	2021	0	0	0	0.001	0.074	0.097	0.008	0.000	0.010	0.015	0.000	0	0.017
4	2022	0	0	0	0.000	0.077	0.095	0.007	0.005	0.012	0.015	0.002	0	0.018
5	2023	0	0	0	0.001	0.075	0.094	0.022	0.005	0.012	0.015	0.002	0	0.019
6	2024	0	0	0	0.001	0.081	0.092	0.008	0.000	0.012	0.016	0.001	0	0.018
7	2025	0	0	0	0.001	0.078	0.088	0.023	0.003	0.012	0.016	0.002	0	0.019
8	2026	0	0	0	0.002	0.077	0.091	0.007	0.003	0.012	0.015	0.001	0	0.017
9	2027	0	0	0	0.000	0.077	0.090	0.022	0.003	0.013	0.015	0.003	0	0.019
10	2028	0	0	0	0.002	0.086	0.087	0.008	0.011	0.012	0.015	0	0	0.019
11	2029	0	0	0	0.001	0.078	0.087	0.023	0.001	0.010	0.015	0.001	0	0.018
12	2030	0	0	0	0	0.071	0.078	0.007	0.002	0.010	0.013	0.001	0	0.015
13	2031	0	0	0	0	0.060	0.084	0.005	0	0.008	0.011	0.001	0	0.014
14	2032	0	0	0	0	0.069	0.080	0.020	0.001	0.008	0.011	0	0	0.016
15	2033	0	0	0	0	0.075	0.080	0.008	0.004	0.012	0.017	0.001	0	0.016
16	2034	0	0	0	0.001	0.084	0.082	0.007	0.001	0.012	0.017	0.001	0	0.017
17	2035	0	0	0	0.001	0.084	0.084	0.008	0.006	0.013	0.020	0.005	0	0.018
18	2036	0	0	0	0.001	0.098	0.081	0.008	0.002	0.013	0.020	0.000	0	0.019
19	2037	0	0	0	0.001	0.089	0.076	0.025	0.002	0.013	0.020	0.001	0	0.019
20	2038	0	0	0	0.005	0.088	0.081	0.008	0.008	0.013	0.021	0.002	0	0.019
21	2039	0	0	0	0.000	0.085	0.088	0.008	0.002	0.013	0.021	0.002	0	0.018
22	2040	0	0	0	0.001	0.095	0.073	0.025	0.002	0.013	0.021	0.001	0	0.019

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-4. Simulated Project-affected Flows at Patch Lake Outflow 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	0.121	0.332	0.154	0.088	0	0	0	0	0.058
1	2019	0	0	0	0	0.121	0.332	0.154	0.088	0	0	0	0	0.058
2	2020	0	0	0	0	0.121	0.332	0.154	0.088	0	0	0	0	0.058
3	2021	0	0	0	0	0.121	0.329	0.152	0.086	0	0	0	0	0.058
4	2022	0	0	0	0	0.102	0.308	0.143	0.081	0	0	0	0	0.053
5	2023	0	0	0	0	0.084	0.287	0.134	0.076	0	0	0	0	0.049
6	2024	0	0	0	0	0.078	0.279	0.131	0.074	0	0	0	0	0.047
7	2025	0	0	0	0	0.078	0.278	0.131	0.074	0	0	0	0	0.047
8	2026	0	0	0	0	0.078	0.279	0.131	0.074	0	0	0	0	0.047
9	2027	0	0	0	0	0.079	0.279	0.131	0.074	0	0	0	0	0.047
10	2028	0	0	0	0	0.080	0.280	0.132	0.075	0	0	0	0	0.047
11	2029	0	0	0	0	0.081	0.280	0.131	0.074	0	0	0	0	0.047
12	2030	0	0	0	0	0.074	0.265	0.125	0.071	0	0	0	0	0.045
13	2031	0	0	0	0	0.071	0.257	0.122	0.069	0	0	0	0	0.043
14	2032	0	0	0	0	0.090	0.284	0.136	0.079	0	0	0	0	0.049
15	2033	0	0	0	0	0.122	0.322	0.151	0.088	0	0	0	0	0.057
16	2034	0	0	0	0	0.136	0.338	0.157	0.091	0	0	0	0	0.060
17	2035	0	0	0	0	0.139	0.341	0.159	0.092	0	0	0	0	0.061
18	2036	0	0	0	0	0.141	0.343	0.159	0.092	0	0	0	0	0.062
19	2037	0	0	0	0	0.143	0.344	0.160	0.092	0	0	0	0	0.062
20	2038	0	0	0	0	0.144	0.345	0.160	0.093	0	0	0	0	0.062
21	2039	0	0	0	0	0.145	0.345	0.160	0.093	0	0	0	0	0.062
22	2040	0	0	0	0	0.147	0.346	0.161	0.093	0	0	0	0	0.062

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-5. Simulated Project-affected Flows at Patch Lake Outflow under 1-in-20-Year Dry Runoff Coonditions (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	0.101	0.196	0.085	0.060	0	0	0	0	0.037
1	2019	0	0	0	0	0.102	0.191	0.092	0.058	0	0	0	0	0.037
2	2020	0	0	0	0	0.118	0.208	0.086	0.061	0	0	0	0	0.040
3	2021	0	0	0	0	0.118	0.192	0.091	0.057	0	0	0	0	0.038
4	2022	0	0	0	0	0.096	0.176	0.087	0.053	0	0	0	0	0.034
5	2023	0	0	0	0	0.069	0.158	0.069	0.046	0	0	0	0	0.029
6	2024	0	0	0	0	0.074	0.155	0.073	0.047	0	0	0	0	0.029
7	2025	0	0	0	0	0.081	0.155	0.066	0.049	0	0	0	0	0.030
8	2026	0	0	0	0	0.074	0.152	0.067	0.049	0	0	0	0	0.029
9	2027	0	0	0	0	0.076	0.158	0.075	0.048	0	0	0	0	0.030
10	2028	0	0	0	0	0.079	0.156	0.065	0.050	0	0	0	0	0.029
11	2029	0	0	0	0	0.082	0.166	0.080	0.047	0	0	0	0	0.031
12	2030	0	0	0	0	0.072	0.148	0.063	0.045	0	0	0	0	0.027
13	2031	0	0	0	0	0.054	0.136	0.065	0.041	0	0	0	0	0.025
14	2032	0	0	0	0	0.092	0.160	0.081	0.052	0	0	0	0	0.032
15	2033	0	0	0	0	0.116	0.189	0.085	0.059	0	0	0	0	0.038
16	2034	0	0	0	0	0.152	0.219	0.102	0.062	0	0	0	0	0.045
17	2035	0	0	0	0	0.120	0.204	0.090	0.061	0	0	0	0	0.040
18	2036	0	0	0	0	0.138	0.216	0.104	0.064	0	0	0	0	0.044
19	2037	0	0	0	0	0.153	0.206	0.093	0.062	0	0	0	0	0.043
20	2038	0	0	0	0	0.103	0.218	0.104	0.063	0	0	0	0	0.041
21	2039	0	0	0	0	0.129	0.199	0.094	0.063	0	0	0	0	0.041
22	2040	0	0	0	0	0.176	0.211	0.100	0.071	0	0	0	0	0.047

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-6. Simulated Project-affected Flows at Patch Lake Outflow 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	0.003	0.763	0.486	0.223	0.156	0.000	0	0	0	0.137
1	2019	0	0	0	0.003	0.600	0.536	0.234	0.159	0.000	0	0	0	0.129
2	2020	0	0	0	0.003	0.696	0.544	0.278	0.160	0.000	0	0	0	0.141
3	2021	0	0	0	0.003	0.665	0.538	0.231	0.154	0	0	0	0	0.134
4	2022	0	0	0	0.001	0.626	0.538	0.209	0.190	0.000	0	0	0	0.131
5	2023	0	0	0	0.001	0.573	0.444	0.250	0.147	0.000	0	0	0	0.119
6	2024	0	0	0	0.000	0.628	0.489	0.221	0.138	0.000	0	0	0	0.124
7	2025	0	0	0	0.000	0.588	0.456	0.244	0.147	0.000	0	0	0	0.121
8	2026	0	0	0	0.000	0.625	0.489	0.214	0.141	0.000	0	0	0	0.124
9	2027	0	0	0	0.000	0.619	0.478	0.248	0.147	0.000	0	0	0	0.125
10	2028	0	0	0	0.000	0.646	0.489	0.222	0.186	0.000	0	0	0	0.130
11	2029	0	0	0	0.000	0.631	0.488	0.246	0.138	0	0	0	0	0.126
12	2030	0	0	0	0.000	0.629	0.417	0.210	0.137	0.000	0	0	0	0.117
13	2031	0	0	0	0.000	0.601	0.469	0.222	0.143	0.000	0	0	0	0.121
14	2032	0	0	0	0.001	0.746	0.488	0.254	0.155	0.000	0	0	0	0.138
15	2033	0	0	0	0.003	0.805	0.526	0.231	0.157	0.000	0	0	0	0.145
16	2034	0	0	0	0.004	0.865	0.542	0.234	0.152	0.000	0	0	0	0.151
17	2035	0	0	0	0.005	0.856	0.497	0.233	0.161	0.000	0	0	0	0.147
18	2036	0	0	0	0.005	0.895	0.542	0.243	0.161	0.000	0	0	0	0.155
19	2037	0	0	0	0.005	0.880	0.530	0.287	0.162	0.000	0	0	0	0.157
20	2038	0	0	0	0.005	0.858	0.489	0.228	0.159	0.000	0	0	0	0.146
21	2039	0	0	0	0.005	0.884	0.549	0.292	0.163	0.000	0	0	0	0.159
22	2040	0	0	0	0.006	0.905	0.481	0.291	0.163	0.000	0	0	0	0.156

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-7. Simulated Project-affected Flows at PO Lake Outflow 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	0.110	0.415	0.130	0.180	0.000	0	0	0	0.070
1	2019	0	0	0	0	0.110	0.414	0.130	0.180	0.000	0	0	0	0.070
2	2020	0	0	0	0	0.110	0.415	0.130	0.180	0.000	0	0	0	0.070
3	2021	0	0	0	0	0.110	0.412	0.128	0.178	0.000	0	0	0	0.069
4	2022	0	0	0	0	0.091	0.391	0.119	0.172	0.000	0	0	0	0.065
5	2023	0	0	0	0	0.073	0.370	0.110	0.168	0.000	0	0	0	0.060
6	2024	0	0	0	0	0.067	0.363	0.107	0.166	0.000	0	0	0	0.059
7	2025	0	0	0	0	0.067	0.362	0.107	0.166	0.000	0	0	0	0.059
8	2026	0	0	0	0	0.068	0.363	0.107	0.167	0.000	0	0	0	0.059
9	2027	0	0	0	0	0.068	0.364	0.107	0.167	0.000	0	0	0	0.059
10	2028	0	0	0	0	0.069	0.364	0.108	0.168	0.000	0	0	0	0.059
11	2029	0	0	0	0	0.070	0.365	0.107	0.167	0.000	0	0	0	0.059
12	2030	0	0	0	0	0.063	0.351	0.101	0.164	0.000	0	0	0	0.057
13	2031	0	0	0	0	0.060	0.343	0.098	0.163	0.000	0	0	0	0.055
14	2032	0	0	0	0	0.079	0.370	0.112	0.173	0.000	0	0	0	0.061
15	2033	0	0	0	0	0.111	0.407	0.127	0.182	0.000	0	0	0	0.069
16	2034	0	0	0	0	0.125	0.424	0.133	0.185	0.000	0	0	0	0.072
17	2035	0	0	0	0	0.128	0.428	0.135	0.186	0.000	0	0	0	0.073
18	2036	0	0	0	0	0.130	0.429	0.135	0.187	0.000	0	0	0	0.074
19	2037	0	0	0	0	0.132	0.431	0.136	0.187	0.000	0	0	0	0.074
20	2038	0	0	0	0	0.133	0.432	0.136	0.188	0.000	0	0	0	0.074
21	2039	0	0	0	0	0.134	0.433	0.136	0.188	0.000	0	0	0	0.075
22	2040	0	0	0	0	0.136	0.434	0.137	0.188	0.000	0	0	0	0.075

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-8. Simulated Project-affected Flows at PO Lake Outflow under 1-in-20-Year Dry Runoff Coonditions (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	0.102	0.165	0.063	0.057	0	0	0	0	0.032
1	2019	0	0	0	0	0.115	0.183	0.068	0.055	0	0	0	0	0.035
2	2020	0	0	0	0	0.109	0.178	0.072	0.063	0	0	0	0	0.035
3	2021	0	0	0	0	0.112	0.164	0.067	0.056	0	0	0	0	0.033
4	2022	0	0	0	0	0.089	0.152	0.063	0.049	0	0	0	0	0.030
5	2023	0	0	0	0	0.066	0.128	0.045	0.045	0	0	0	0	0.024
6	2024	0	0	0	0	0.063	0.125	0.049	0.043	0	0	0	0	0.023
7	2025	0	0	0	0	0.075	0.136	0.049	0.051	0	0	0	0	0.026
8	2026	0	0	0	0	0.063	0.122	0.054	0.045	0	0	0	0	0.024
9	2027	0	0	0	0	0.073	0.139	0.051	0.046	0	0	0	0	0.026
10	2028	0	0	0	0	0.068	0.125	0.044	0.047	0	0	0	0	0.024
11	2029	0	0	0	0	0.072	0.147	0.056	0.047	0	0	0	0	0.027
12	2030	0	0	0	0	0.064	0.127	0.049	0.043	0	0	0	0	0.024
13	2031	0	0	0	0	0.059	0.105	0.041	0.040	0	0	0	0	0.021
14	2032	0	0	0	0	0.081	0.129	0.057	0.052	0	0	0	0	0.027
15	2033	0	0	0	0	0.110	0.158	0.071	0.061	0	0	0	0	0.034
16	2034	0	0	0	0	0.144	0.188	0.078	0.058	0	0	0	0	0.039
17	2035	0	0	0	0	0.132	0.173	0.066	0.060	0	0	0	0	0.036
18	2036	0	0	0	0	0.132	0.192	0.084	0.061	0	0	0	0	0.039
19	2037	0	0	0	0	0.142	0.176	0.069	0.066	0	0	0	0	0.038
20	2038	0	0	0	0	0.107	0.194	0.080	0.060	0	0	0	0	0.037
21	2039	0	0	0	0	0.137	0.169	0.070	0.060	0	0	0	0	0.037
22	2040	0	0	0	0	0.165	0.180	0.082	0.070	0	0	0	0	0.042

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-9. Simulated Project-affected Flows at PO Lake Outflow 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	0.014	0.843	0.473	0.303	0.256	0.111	0	0	0	0.168
1	2019	0	0	0	0.004	0.933	0.553	0.306	0.259	0.154	0.004	0	0	0.186
2	2020	0	0	0	0.004	1.005	0.565	0.291	0.257	0.088	0	0	0	0.186
3	2021	0	0	0	0.007	1.081	0.557	0.320	0.242	0.055	0	0	0	0.190
4	2022	0	0	0	0.004	0.842	0.507	0.292	0.246	0.111	0	0	0	0.168
5	2023	0	0	0	0.001	0.970	0.495	0.310	0.230	0.127	0	0	0	0.179
6	2024	0	0	0	0.003	1.007	0.483	0.263	0.238	0.081	0	0	0	0.175
7	2025	0	0	0	0.003	1.027	0.481	0.280	0.234	0.097	0	0	0	0.179
8	2026	0	0	0	0.003	1.066	0.498	0.273	0.230	0.156	0	0	0	0.187
9	2027	0	0	0	0.001	0.876	0.497	0.281	0.333	0.097	0.002	0	0	0.176
10	2028	0	0	0	0.003	1.195	0.483	0.274	0.239	0.084	0	0	0	0.192
11	2029	0	0	0	0.007	0.964	0.497	0.355	0.230	0.082	0	0	0	0.180
12	2030	0	0	0	0.012	0.955	0.487	0.263	0.232	0.158	0	0	0	0.177
13	2031	0	0	0	0.001	1.135	0.467	0.263	0.245	0.158	0.004	0	0	0.191
14	2032	0	0	0	0.013	1.161	0.521	0.271	0.270	0.126	0	0	0	0.199
15	2033	0	0	0	0.007	1.177	0.521	0.305	0.249	0.106	0	0	0	0.199
16	2034	0	0	0	0.008	1.139	0.553	0.309	0.252	0.134	0.002	0	0	0.202
17	2035	0	0	0	0.008	0.944	0.562	0.303	0.353	0.118	0.017	0	0	0.194
18	2036	0	0	0	0.007	1.307	0.511	0.313	0.286	0.125	0	0	0	0.215
19	2037	0	0	0	0.008	1.200	0.512	0.315	0.261	0.099	0	0	0	0.202
20	2038	0	0	0	0.015	1.219	0.543	0.393	0.268	0.110	0	0	0	0.215
21	2039	0	0	0	0.010	1.122	0.564	0.307	0.271	0.160	0.067	0	0	0.210
22	2040	0	0	0	0.006	1.310	0.529	0.318	0.289	0.065	0	0	0	0.212

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-10. Simulated Project-affected Flows at Ogama Lake Outflow 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	0.089	1.101	0.085	0.771	0.003	0	0	0	0.171
1	2019	0	0	0	0	0.089	1.101	0.085	0.772	0.003	0	0	0	0.171
2	2020	0	0	0	0	0.090	1.103	0.085	0.773	0.003	0	0	0	0.171
3	2021	0	0	0	0	0.090	1.102	0.083	0.772	0.003	0	0	0	0.171
4	2022	0	0	0	0	0.070	1.083	0.074	0.768	0.003	0	0	0	0.167
5	2023	0	0	0	0	0.053	1.063	0.065	0.765	0.003	0	0	0	0.163
6	2024	0	0	0	0	0.047	1.057	0.062	0.765	0.003	0	0	0	0.161
7	2025	0	0	0	0	0.047	1.058	0.062	0.766	0.003	0	0	0	0.162
8	2026	0	0	0	0	0.047	1.060	0.062	0.768	0.003	0	0	0	0.162
9	2027	0	0	0	0	0.048	1.063	0.063	0.769	0.003	0	0	0	0.162
10	2028	0	0	0	0	0.049	1.065	0.063	0.771	0.003	0	0	0	0.163
11	2029	0	0	0	0	0.050	1.067	0.062	0.772	0.004	0	0	0	0.163
12	2030	0	0	0	0	0.043	1.054	0.056	0.770	0.004	0	0	0	0.161
13	2031	0	0	0	0	0.039	1.048	0.053	0.770	0.004	0	0	0	0.160
14	2032	0	0	0	0	0.059	1.076	0.068	0.781	0.004	0	0	0	0.166
15	2033	0	0	0	0	0.090	1.116	0.083	0.792	0.004	0	0	0	0.174
16	2034	0	0	0	0	0.104	1.133	0.088	0.796	0.004	0	0	0	0.177
17	2035	0	0	0	0	0.108	1.139	0.090	0.798	0.004	0	0	0	0.178
18	2036	0	0	0	0	0.110	1.142	0.090	0.800	0.004	0	0	0	0.179
19	2037	0	0	0	0	0.111	1.145	0.091	0.801	0.004	0	0	0	0.180
20	2038	0	0	0	0	0.113	1.148	0.091	0.803	0.004	0	0	0	0.180
21	2039	0	0	0	0	0.114	1.150	0.091	0.805	0.004	0	0	0	0.181
22	2040	0	0	0	0	0.115	1.153	0.092	0.806	0.004	0	0	0	0.181

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-11. Simulated Project-affected Flows at Ogama Lake Outflow under 1-in-20-Year Dry Runoff Coonditions (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	0.082	0.108	0.018	0.052	0	0	0	0	0.022
1	2019	0	0	0	0	0.101	0.126	0.023	0.046	0	0	0	0	0.025
2	2020	0	0	0	0	0.098	0.120	0.027	0.055	0	0	0	0	0.025
3	2021	0	0	0	0	0.124	0.106	0.022	0.046	0	0	0	0	0.025
4	2022	0	0	0	0	0.078	0.095	0.018	0.041	0	0	0	0	0.019
5	2023	0	0	0	0	0.060	0.070	0	0.028	0	0	0	0	0.013
6	2024	0	0	0	0	0.059	0.067	0.004	0	0	0	0	0	0.011
7	2025	0	0	0	0	0.057	0.078	0.004	0.019	0	0	0	0	0.013
8	2026	0	0	0	0	0.056	0.064	0.004	0.011	0	0	0	0	0.011
9	2027	0	0	0	0	0.059	0.082	0.006	0.024	0	0	0	0	0.014
10	2028	0	0	0	0	0.047	0.068	0	0.012	0	0	0	0	0.011
11	2029	0	0	0	0	0.082	0.090	0.009	0.012	0	0	0	0	0.016
12	2030	0	0	0	0	0.053	0.070	0	0.006	0	0	0	0	0.011
13	2031	0	0	0	0	0.051	0.048	0	0	0	0	0	0	0.008
14	2032	0	0	0	0	0.073	0.072	0.012	0.022	0	0	0	0	0.015
15	2033	0	0	0	0	0.108	0.101	0.026	0.058	0	0	0	0	0.025
16	2034	0	0	0	0	0.138	0.131	0.033	0.046	0	0	0	0	0.029
17	2035	0	0	0	0	0.112	0.116	0.022	0.052	0	0	0	0	0.025
18	2036	0	0	0	0	0.145	0.135	0.040	0.062	0	0	0	0	0.032
19	2037	0	0	0	0	0.145	0.118	0.024	0.058	0	0	0	0	0.029
20	2038	0	0	0	0	0.141	0.137	0.035	0.053	0	0	0	0	0.031
21	2039	0	0	0	0	0.148	0.111	0.025	0.053	0	0	0	0	0.028
22	2040	0	0	0	0	0.147	0.123	0.037	0.063	0	0	0	0	0.031

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-12. Simulated BaProject-affectedseline Flows at Ogama Lake Outflow under 1-in-20-Year Wet Runoff Coonditions (m ³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0.100	3.623	0.696	1.036	1.101	0.930	0	0	0	0.631
1	2019	0	0	0	0.010	4.372	1.787	1.037	1.372	1.296	0.031	0	0	0.833
2	2020	0	0	0	0.010	4.667	1.107	0.483	0.889	0.692	0	0	0	0.662
3	2021	0	0	0	0.061	5.111	1.069	1.119	0.995	0.512	0	0	0	0.749
4	2022	0	0	0	0.023	3.961	1.086	0.977	1.101	0.936	0	0	0	0.681
5	2023	0	0	0	0.010	4.559	1.584	1.025	1.234	0.993	0	0	0	0.792
6	2024	0	0	0	0.022	4.913	0.938	0.470	0.986	0.686	0	0	0	0.676
7	2025	0	0	0	0.022	4.693	1.063	1.112	1.045	0.815	0	0	0	0.738
8	2026	0	0	0	0.022	4.174	0.791	1.029	0.990	1.294	0	0	0	0.699
9	2027	0	0	0	0.010	4.170	1.747	0.974	1.825	0.818	0.017	0	0	0.805
10	2028	0	0	0	0.023	6.108	1.071	0.474	1.074	0.691	0	0	0	0.797
11	2029	0	0	0	0.062	4.984	1.039	1.775	0.996	0.693	0	0	0	0.806
12	2030	0	0	0	0.101	4.544	1.924	0.972	0.770	1.325	0	0	0	0.809
13	2031	0	0	0	0.010	4.622	1.590	0.814	1.385	1.328	0.031	0	0	0.823
14	2032	0	0	0	0.102	6.060	1.083	0.485	1.430	1.032	0	0	0	0.860
15	2033	0	0	0	0.063	5.660	1.086	1.479	1.077	0.891	0	0	0	0.865
16	2034	0	0	0	0.028	4.932	1.055	1.153	1.026	1.194	0.017	0	0	0.792
17	2035	0	0	0	0.017	4.742	1.837	1.018	1.877	1.064	0.162	0	0	0.902
18	2036	0	0	0	0.063	5.921	1.020	1.159	1.455	1.064	0	0	0	0.901
19	2037	0	0	0	0.029	5.697	1.107	1.023	1.147	0.872	0	0	0	0.833
20	2038	0	0	0	0.109	4.842	1.025	1.840	0.982	0.922	0	0	0	0.820
21	2039	0	0	0	0.018	5.052	1.850	0.796	1.430	1.350	0.561	0	0	0.930
22	2040	0	0	0	0.010	5.298	0.956	1.169	1.467	0.574	0	0	0	0.800

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-13. Simulated Project-affected Flows at Doris Lake Outflow 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	1.196	0.493	0.183	0.210	0.071	0	0	0.179
1	2019	0	0	0	0	0	1.142	0.490	0.182	0.210	0.072	0	0	0.174
2	2020	0	0	0	0	0	1.171	0.493	0.185	0.212	0.074	0	0	0.177
3	2021	0	0	0	0	0	1.251	0.504	0.196	0.223	0.085	0.001	0	0.188
4	2022	0	0	0	0	0.004	1.261	0.486	0.186	0.217	0.082	0.001	0	0.186
5	2023	0	0	0	0	0.003	1.241	0.468	0.175	0.210	0.079	0.000	0	0.181
6	2024	0	0	0	0	0.003	1.236	0.461	0.173	0.209	0.079	0.000	0	0.180
7	2025	0	0	0	0	0.005	1.241	0.461	0.173	0.209	0.079	0.000	0	0.180
8	2026	0	0	0	0	0.006	1.245	0.461	0.173	0.210	0.079	0.000	0	0.181
9	2027	0	0	0	0	0.007	1.250	0.461	0.174	0.210	0.080	0.000	0	0.181
10	2028	0	0	0	0	0.008	1.255	0.461	0.175	0.211	0.080	0.000	0	0.182
11	2029	0	0	0	0	0	0.938	0.453	0.174	0.211	0.052	0	0	0.152
12	2030	0	0	0	0	0	0.758	0.433	0.167	0.207	0.051	0	0	0.135
13	2031	0	0	0	0	0	0.757	0.427	0.164	0.206	0.051	0	0	0.134
14	2032	0	0	0	0	0	1.041	0.466	0.187	0.225	0.077	0	0	0.166
15	2033	0	0	0	0	0.023	1.342	0.507	0.210	0.242	0.100	0.004	0	0.202
16	2034	0	0	0	0	0.043	1.407	0.520	0.217	0.246	0.101	0.004	0	0.211
17	2035	0	0	0	0	0.064	1.482	0.539	0.235	0.265	0.116	0.015	0	0.226
18	2036	0	0	0	0	0.075	1.500	0.541	0.236	0.265	0.116	0.015	0	0.229
19	2037	0	0	0	0	0.076	1.506	0.542	0.237	0.266	0.116	0.015	0	0.229
20	2038	0	0	0	0	0.078	1.511	0.542	0.238	0.267	0.117	0.015	0	0.230
21	2039	0	0	0	0	0.079	1.515	0.544	0.239	0.268	0.117	0.015	0	0.231
22	2040	0	0	0	0	0.080	1.521	0.544	0.240	0.269	0.117	0.015	0	0.232

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-14. Simulated Project-affected Flows at Doris Lake Outflow 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	0.510	0.191	0.040	0.068	0.021	0	0	0.069
1	2019	0	0	0	0	0	0.626	0.184	0.049	0.073	0.048	0	0	0.081
2	2020	0	0	0	0	0	0.610	0.202	0.047	0.044	0.047	0	0	0.079
3	2021	0	0	0	0	0	0.554	0.208	0.056	0.082	0.061	0.000	0	0.080
4	2022	0	0	0	0	0	0.593	0.181	0.045	0.081	0.049	0.000	0	0.079
5	2023	0	0	0	0	0	0.546	0.179	0.042	0.067	0.046	0.000	0	0.073
6	2024	0	0	0	0	0	0.544	0.168	0.038	0.071	0.055	0.000	0	0.073
7	2025	0	0	0	0	0	0.568	0.159	0.065	0.066	0.040	0	0	0.075
8	2026	0	0	0	0	0	0.553	0.174	0.036	0.072	0.046	0.000	0	0.073
9	2027	0	0	0	0	0	0.566	0.163	0.039	0.071	0.058	0.000	0	0.074
10	2028	0	0	0	0	0	0.568	0.175	0.037	0.067	0.041	0	0	0.074
11	2029	0	0	0	0	0	0.447	0.145	0.040	0.066	0.024	0	0	0.060
12	2030	0	0	0	0	0	0.248	0.125	0.032	0.066	0.033	0	0	0.042
13	2031	0	0	0	0	0	0.285	0.123	0.037	0.060	0.028	0	0	0.044
14	2032	0	0	0	0	0	0.402	0.158	0.043	0.087	0.055	0	0	0.062
15	2033	0	0	0	0	0	0.613	0.216	0.061	0.071	0.058	0.002	0	0.085
16	2034	0	0	0	0	0	0.595	0.204	0.059	0.108	0.080	0.005	0	0.087
17	2035	0	0	0	0	0.007	0.661	0.243	0.076	0.116	0.079	0.014	0	0.099
18	2036	0	0	0	0	0.027	0.635	0.256	0.095	0.117	0.073	0.015	0	0.101
19	2037	0	0	0	0	0.037	0.606	0.243	0.073	0.123	0.102	0.015	0	0.100
20	2038	0	0	0	0	0.019	0.610	0.245	0.074	0.117	0.061	0.010	0	0.094
21	2039	0	0	0	0	0.030	0.594	0.225	0.089	0.128	0.096	0.015	0	0.098
22	2040	0	0	0	0	0.037	0.644	0.248	0.076	0.125	0.073	0.012	0	0.101

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-15. Simulated Project-affected Flows at Doris Lake Outflow 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	0.830	1.639	0.675	0.551	0.499	0.395	0.158	0	0.397
1	2019	0	0	0	0	0.637	1.859	0.685	0.554	0.517	0.416	0.141	0	0.402
2	2020	0	0	0	0	0.736	1.648	0.704	0.566	0.510	0.398	0.142	0	0.393
3	2021	0	0	0	0	0.799	2.013	0.700	0.526	0.441	0.423	0.132	0	0.420
4	2022	0	0	0	0	0.792	1.882	0.666	0.565	0.507	0.423	0.204	0	0.421
5	2023	0	0	0	0	0.733	1.636	0.670	0.551	0.517	0.426	0.145	0	0.391
6	2024	0	0	0	0	0.967	1.739	0.661	0.509	0.508	0.388	0.210	0	0.416
7	2025	0	0	0	0	0.834	1.762	0.659	0.555	0.501	0.429	0.152	0	0.409
8	2026	0	0	0	0	0.823	1.881	0.659	0.552	0.506	0.434	0.214	0	0.423
9	2027	0	0	0	0	0.839	1.640	0.672	0.551	0.503	0.430	0.266	0	0.410
10	2028	0	0	0	0	0.992	1.983	0.660	0.568	0.510	0.444	0.139	0	0.443
11	2029	0	0	0	0	0.588	1.321	0.667	0.488	0.442	0.395	0.152	0	0.339
12	2030	0	0	0	0	0.528	1.288	0.600	0.545	0.501	0.401	0.097	0	0.331
13	2031	0	0	0	0	0.385	1.225	0.642	0.540	0.542	0.402	0.097	0	0.320
14	2032	0	0	0	0	0.777	1.598	0.691	0.578	0.528	0.425	0.130	0	0.395
15	2033	0	0	0	0	1.007	1.797	0.699	0.600	0.539	0.462	0.165	0	0.441
16	2034	0	0	0	0	1.073	1.998	0.708	0.537	0.483	0.464	0.231	0	0.459
17	2035	0	0	0	0	1.080	1.871	0.710	0.619	0.564	0.479	0.196	0	0.462
18	2036	0	0	0	0	1.211	1.985	0.730	0.629	0.575	0.458	0.170	0	0.482
19	2037	0	0	0	0	1.211	1.990	0.754	0.630	0.568	0.485	0.248	0	0.492
20	2038	0	0	0	0	1.187	1.917	0.716	0.631	0.578	0.486	0.184	0	0.477
21	2039	0	0	0	0	1.233	1.924	0.792	0.631	0.575	0.469	0.252	0	0.492
22	2040	0	0	0	0	1.217	1.943	0.736	0.635	0.581	0.479	0.198	0	0.484

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-16. Simulated Project-affected Flows at Little Roberts Lake Outflow 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	0.244	4.568	1.357	0.650	0.745	0.166	0	0	0.642
1	2019	0	0	0	0	0.246	4.460	1.352	0.649	0.745	0.168	0	0	0.633
2	2020	0	0	0	0	0.250	4.518	1.357	0.654	0.750	0.171	0	0	0.640
3	2021	0	0	0	0	0.257	4.676	1.379	0.677	0.773	0.194	0.001	0	0.661
4	2022	0	0	0	0	0.272	4.699	1.346	0.657	0.760	0.189	0.001	0	0.658
5	2023	0	0	0	0	0.277	4.657	1.310	0.637	0.748	0.183	0.001	0	0.649
6	2024	0	0	0	0	0.284	4.649	1.298	0.632	0.746	0.182	0.001	0	0.647
7	2025	0	0	0	0	0.294	4.657	1.297	0.633	0.747	0.182	0.001	0	0.649
8	2026	0	0	0	0	0.304	4.664	1.298	0.635	0.749	0.183	0.001	0	0.650
9	2027	0	0	0	0	0.313	4.676	1.299	0.637	0.752	0.183	0.001	0	0.653
10	2028	0	0	0	0	0.323	4.684	1.301	0.639	0.753	0.184	0.001	0	0.655
11	2029	0	0	0	0	0.313	4.051	1.284	0.638	0.753	0.129	0	0	0.596
12	2030	0	0	0	0	0.319	3.690	1.246	0.625	0.747	0.127	0	0	0.562
13	2031	0	0	0	0	0.326	3.688	1.234	0.620	0.745	0.126	0	0	0.560
14	2032	0	0	0	0	0.333	4.255	1.312	0.666	0.785	0.179	0	0	0.626
15	2033	0	0	0	0	0.386	4.857	1.395	0.713	0.821	0.224	0.008	0	0.698
16	2034	0	0	0	0	0.434	4.985	1.422	0.727	0.829	0.226	0.008	0	0.717
17	2035	0	0	0	0	0.483	5.135	1.462	0.764	0.867	0.256	0.030	0	0.748
18	2036	0	0	0	0	0.543	5.367	1.500	0.794	0.899	0.259	0.030	0	0.780
19	2037	0	0	0	0	0.553	5.378	1.503	0.796	0.902	0.260	0.030	0	0.783
20	2038	0	0	0	0	0.563	5.390	1.505	0.798	0.904	0.260	0.030	0	0.785
21	2039	0	0	0	0	0.573	5.397	1.508	0.801	0.906	0.261	0.030	0	0.788
22	2040	0	0	0	0	0.584	5.409	1.510	0.803	0.909	0.261	0.030	0	0.790

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-17. Simulated Project-affected Flows at Little Roberts Lake Outflow under 1-in-20-Year Dry Runoff Coonditions (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	0.021	1.430	0.530	0.380	0.274	0.065	0	0	0.225
1	2019	0	0	0	0	0.029	1.430	0.531	0.294	0.372	0.167	0	0	0.235
2	2020	0	0	0	0	0.038	1.545	0.557	0.288	0.201	0.132	0	0	0.230
3	2021	0	0	0	0	0.038	1.536	0.565	0.371	0.309	0.147	0.000	0	0.247
4	2022	0	0	0	0	0.032	1.539	0.547	0.295	0.334	0.117	0.000	0	0.238
5	2023	0	0	0	0	0.021	1.339	0.584	0.250	0.279	0.111	0.000	0	0.215
6	2024	0	0	0	0	0.041	1.330	0.477	0.268	0.277	0.161	0.001	0	0.213
7	2025	0	0	0	0	0.050	1.421	0.563	0.345	0.276	0.088	0	0	0.228
8	2026	0	0	0	0	0.015	1.322	0.506	0.273	0.365	0.112	0.000	0	0.216
9	2027	0	0	0	0	0.042	1.323	0.480	0.251	0.281	0.183	0.001	0	0.213
10	2028	0	0	0	0	0.038	1.321	0.502	0.306	0.280	0.089	0	0	0.211
11	2029	0	0	0	0	0.047	1.158	0.454	0.344	0.280	0.057	0	0	0.195
12	2030	0	0	0	0	0.015	1.130	0.434	0.339	0.276	0.126	0	0	0.193
13	2031	0	0	0	0	0.033	1.186	0.423	0.240	0.268	0.074	0	0	0.185
14	2032	0	0	0	0	0.149	1.200	0.483	0.283	0.397	0.130	0	0	0.220
15	2033	0	0	0	0	0.039	1.413	0.656	0.404	0.266	0.124	0.004	0	0.242
16	2034	0	0	0	0	0.054	1.377	0.575	0.323	0.426	0.191	0.011	0	0.246
17	2035	0	0	0	0	0.055	1.510	0.725	0.352	0.381	0.178	0.027	0	0.269
18	2036	0	0	0	0	0.097	1.439	0.769	0.474	0.397	0.155	0.030	0	0.280
19	2037	0	0	0	0	0.348	1.481	0.654	0.362	0.502	0.205	0.030	0	0.299
20	2038	0	0	0	0	0.081	1.436	0.693	0.478	0.398	0.147	0.020	0	0.271
21	2039	0	0	0	0	0.092	1.426	0.650	0.366	0.490	0.225	0.030	0	0.273
22	2040	0	0	0	0	0.520	1.447	0.700	0.506	0.397	0.156	0.025	0	0.313

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-18. Simulated Project-affected Flows at Little Roberts Lake Outflow under 1-in-20-Year Wet Runoff Coonditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0.056	5.526	5.826	2.029	1.794	1.531	1.642	0.346	0	1.571
1	2019	0	0	0	0.107	3.605	5.930	2.041	1.834	1.408	1.561	0.341	0	1.408
2	2020	0	0	0	0.056	4.055	5.764	2.592	1.808	1.545	1.567	0.343	0	1.485
3	2021	0	0	0	0.056	3.842	5.999	2.058	1.819	1.293	1.629	0.321	0	1.424
4	2022	0	0	0	0.027	3.823	6.007	1.940	1.997	1.397	1.765	0.409	0	1.453
5	2023	0	0	0	0.108	3.741	5.856	2.441	1.872	1.410	1.586	0.291	0	1.449
6	2024	0	0	0	0.056	4.589	5.953	1.891	1.794	1.544	1.575	0.420	0	1.492
7	2025	0	0	0	0.056	4.506	5.683	2.443	1.789	1.387	1.694	0.365	0	1.502
8	2026	0	0	0	0.057	4.182	5.949	1.887	1.792	1.390	1.689	0.429	0	1.454
9	2027	0	0	0	0.050	3.857	5.907	2.456	1.871	1.685	1.691	0.532	0	1.510
10	2028	0	0	0	0.109	4.652	5.938	2.018	1.989	1.400	1.706	0.297	0	1.517
11	2029	0	0	0	0.065	3.590	5.297	2.450	1.477	1.297	1.639	0.304	0	1.350
12	2030	0	0	0	0.072	3.797	5.015	1.988	1.795	1.391	1.652	0.194	0	1.333
13	2031	0	0	0	0.079	3.637	4.958	2.404	1.782	1.679	1.626	0.243	0	1.375
14	2032	0	0	0	0.253	4.200	5.424	2.514	1.844	1.439	1.545	0.320	0	1.469
15	2033	0	0	0	0.093	4.574	5.721	2.120	1.881	1.478	1.768	0.361	0	1.507
16	2034	0	0	0.001	0.101	4.764	6.254	1.903	1.682	1.374	1.770	0.463	0	1.533
17	2035	0	0	0	0.108	4.727	6.146	2.180	2.030	1.531	1.827	0.429	0	1.589
18	2036	0	0	0	0.125	5.253	6.713	2.265	2.011	1.736	1.587	0.356	0	1.678
19	2037	0	0	0	0.136	5.309	6.578	2.807	1.939	1.948	2.020	0.495	0	1.778
20	2038	0	0	0	0.141	5.152	6.073	2.264	2.024	1.579	1.922	0.454	0	1.643
21	2039	0	0	0	0.149	5.246	6.339	2.823	2.014	1.894	1.927	0.597	0	1.758
22	2040	0	0	0	0.107	5.582	6.242	2.837	2.034	1.588	1.947	0.434	0	1.741

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-19. Simulated Project-affected Flows at Windy Lake Outflow 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	0.158	0.089	0.024	0.016	0	0	0	0.024
1	2019	0	0	0	0	0	0.157	0.089	0.024	0.016	0	0	0	0.024
2	2020	0	0	0	0	0	0.158	0.089	0.024	0.016	0	0	0	0.024
3	2021	0	0	0	0	0	0.159	0.089	0.024	0.016	0	0	0	0.024
4	2022	0	0	0	0	0	0.160	0.089	0.024	0.016	0	0	0	0.024
5	2023	0	0	0	0	0	0.161	0.089	0.024	0.016	0	0	0	0.024
6	2024	0	0	0	0	0	0.162	0.089	0.024	0.017	0	0	0	0.024
7	2025	0	0	0	0	0	0.163	0.089	0.024	0.017	0	0	0	0.024
8	2026	0	0	0	0	0	0.164	0.090	0.024	0.017	0	0	0	0.025
9	2027	0	0	0	0	0	0.166	0.090	0.024	0.017	0	0	0	0.025
10	2028	0	0	0	0	0	0.167	0.090	0.024	0.017	0	0	0	0.025
11	2029	0	0	0	0	0	0.168	0.090	0.025	0.017	0	0	0	0.025
12	2030	0	0	0	0	0	0.169	0.090	0.025	0.017	0	0	0	0.025
13	2031	0	0	0	0	0	0.171	0.091	0.025	0.017	0	0	0	0.025
14	2032	0	0	0	0	0	0.173	0.091	0.025	0.018	0	0	0	0.025
15	2033	0	0	0	0	0	0.174	0.091	0.025	0.018	0	0	0	0.026
16	2034	0	0	0	0	0	0.176	0.092	0.025	0.018	0	0	0	0.026
17	2035	0	0	0	0	0	0.183	0.094	0.027	0.019	0	0	0	0.027
18	2036	0	0	0	0	0	0.190	0.096	0.027	0.020	0	0	0	0.028
19	2037	0	0	0	0	0	0.192	0.097	0.028	0.020	0	0	0	0.028
20	2038	0	0	0	0	0	0.193	0.097	0.028	0.020	0	0	0	0.028
21	2039	0	0	0	0	0	0.195	0.097	0.028	0.020	0	0	0	0.028
22	2040	0	0	0	0	0	0.196	0.097	0.028	0.020	0	0	0	0.028

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-20. Simulated Project-affected Flows at Windy Lake Outflow 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	0.080	0.036	0.005	0.003	0	0	0	0.010
1	2019	0	0	0	0	0	0.102	0.035	0.006	0.002	0	0	0	0.012
2	2020	0	0	0	0	0	0.101	0.038	0.006	0.003	0	0	0	0.012
3	2021	0	0	0	0	0	0.086	0.036	0.005	0.003	0	0	0	0.011
4	2022	0	0	0	0	0	0.084	0.036	0.006	0.003	0	0	0	0.011
5	2023	0	0	0	0	0	0.100	0.036	0.005	0.003	0	0	0	0.012
6	2024	0	0	0	0	0	0.105	0.037	0.005	0.003	0	0	0	0.012
7	2025	0	0	0	0	0	0.097	0.038	0.007	0.003	0	0	0	0.012
8	2026	0	0	0	0	0	0.087	0.036	0.006	0.003	0	0	0	0.011
9	2027	0	0	0	0	0	0.106	0.039	0.006	0.003	0	0	0	0.013
10	2028	0	0	0	0	0	0.088	0.037	0.007	0.003	0	0	0	0.011
11	2029	0	0	0	0	0	0.107	0.042	0.007	0.003	0	0	0	0.013
12	2030	0	0	0	0	0	0.091	0.039	0.007	0.003	0	0	0	0.012
13	2031	0	0	0	0	0	0.100	0.037	0.006	0.003	0	0	0	0.012
14	2032	0	0	0	0	0	0.098	0.038	0.006	0.003	0	0	0	0.012
15	2033	0	0	0	0	0	0.098	0.038	0.008	0.003	0	0	0	0.012
16	2034	0	0	0	0	0	0.116	0.044	0.006	0.004	0	0	0	0.014
17	2035	0	0	0	0	0	0.098	0.040	0.007	0.004	0	0	0	0.012
18	2036	0	0	0	0	0	0.121	0.047	0.009	0.005	0	0	0	0.015
19	2037	0	0	0	0	0	0.113	0.042	0.008	0.004	0	0	0	0.014
20	2038	0	0	0	0	0	0.127	0.048	0.009	0.005	0	0	0	0.016
21	2039	0	0	0	0	0	0.113	0.038	0.008	0.005	0	0	0	0.014
22	2040	0	0	0	0	0	0.120	0.043	0.008	0.004	0	0	0	0.015

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-21. Simulated Project-affected Flows at Windy Lake Outflow under 1-in-20-Year Wet Runoff Coonditions (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	0.307	0.129	0.061	0.053	0	0	0	0.046
1	2019	0	0	0	0	0	0.303	0.133	0.064	0.073	0	0	0	0.048
2	2020	0	0	0	0	0	0.312	0.146	0.063	0.072	0	0	0	0.049
3	2021	0	0	0	0	0	0.399	0.132	0.061	0.051	0	0	0	0.053
4	2022	0	0	0	0	0	0.296	0.133	0.065	0.053	0	0	0	0.045
5	2023	0	0	0	0	0	0.311	0.127	0.065	0.074	0	0	0	0.048
6	2024	0	0	0	0	0	0.322	0.133	0.062	0.054	0	0	0	0.047
7	2025	0	0	0	0	0	0.322	0.131	0.061	0.053	0	0	0	0.047
8	2026	0	0	0	0	0	0.325	0.130	0.061	0.074	0	0	0	0.049
9	2027	0	0	0	0	0	0.321	0.136	0.067	0.054	0	0	0	0.048
10	2028	0	0	0	0	0	0.335	0.130	0.064	0.074	0	0	0	0.050
11	2029	0	0	0	0	0	0.332	0.143	0.062	0.052	0	0	0	0.049
12	2030	0	0	0	0	0	0.337	0.130	0.062	0.054	0	0	0	0.048
13	2031	0	0	0	0	0	0.337	0.116	0.076	0.082	0	0	0	0.051
14	2032	0	0	0	0	0	0.347	0.130	0.067	0.056	0	0	0	0.050
15	2033	0	0	0	0	0	0.351	0.130	0.063	0.055	0	0	0	0.050
16	2034	0	0	0	0	0	0.349	0.130	0.062	0.054	0	0	0	0.049
17	2035	0	0	0	0	0	0.352	0.120	0.066	0.057	0	0	0	0.049
18	2036	0	0	0	0	0	0.381	0.133	0.069	0.070	0	0	0	0.054
19	2037	0	0	0	0	0	0.382	0.133	0.067	0.059	0	0	0	0.053
20	2038	0	0	0	0	0	0.379	0.121	0.074	0.081	0	0	0	0.054
21	2039	0	0	0	0	0	0.373	0.140	0.068	0.059	0	0	0	0.053
22	2040	0	0	0	0	0	0.393	0.128	0.068	0.060	0	0	0	0.054

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-22. Simulated Project-affected Flows at Glenn Lake Outflow 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	0.053	0.614	0.090	0.037	0.068	0.005	0	0	0.072
1	2019	0	0	0	0	0.053	0.613	0.090	0.036	0.068	0.005	0	0	0.072
2	2020	0	0	0	0	0.054	0.613	0.090	0.037	0.068	0.005	0	0	0.072
3	2021	0	0	0	0	0.056	0.614	0.090	0.037	0.069	0.005	0	0	0.072
4	2022	0	0	0	0	0.057	0.615	0.091	0.037	0.069	0.005	0	0	0.072
5	2023	0	0	0	0	0.059	0.616	0.091	0.037	0.069	0.005	0	0	0.073
6	2024	0	0	0	0	0.061	0.617	0.091	0.037	0.070	0.005	0	0	0.073
7	2025	0	0	0	0	0.062	0.618	0.092	0.037	0.070	0.005	0	0	0.073
8	2026	0	0	0	0	0.064	0.619	0.092	0.038	0.070	0.005	0	0	0.073
9	2027	0	0	0	0	0.065	0.620	0.092	0.038	0.071	0.005	0	0	0.074
10	2028	0	0	0	0	0.067	0.622	0.093	0.038	0.071	0.005	0	0	0.074
11	2029	0	0	0	0	0.068	0.623	0.093	0.038	0.071	0.005	0	0	0.074
12	2030	0	0	0	0	0.070	0.624	0.094	0.038	0.072	0.005	0	0	0.075
13	2031	0	0	0	0	0.071	0.625	0.094	0.039	0.072	0.005	0	0	0.075
14	2032	0	0	0	0	0.073	0.627	0.094	0.039	0.073	0.005	0	0	0.075
15	2033	0	0	0	0	0.074	0.628	0.095	0.039	0.073	0.005	0	0	0.076
16	2034	0	0	0	0	0.076	0.629	0.095	0.039	0.074	0.005	0	0	0.076
17	2035	0	0	0	0	0.077	0.636	0.098	0.040	0.076	0.005	0	0	0.077
18	2036	0	0	0	0	0.079	0.643	0.100	0.041	0.077	0.005	0	0	0.078
19	2037	0	0	0	0	0.081	0.645	0.101	0.041	0.077	0.005	0	0	0.079
20	2038	0	0	0	0	0.082	0.646	0.101	0.041	0.078	0.005	0	0	0.079
21	2039	0	0	0	0	0.084	0.647	0.102	0.041	0.078	0.005	0	0	0.079
22	2040	0	0	0	0	0.085	0.649	0.102	0.042	0.078	0.005	0	0	0.080

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-23. Simulated Project-affected Flows at Glenn Lake Outflow 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	0.004	0.165	0.009	0	0	0.004	0	0	0.015
1	2019	0	0	0	0	0.006	0.172	0.020	0	0.010	0.005	0	0	0.018
2	2020	0	0	0	0	0.008	0.165	0.016	0	0	0.004	0	0	0.016
3	2021	0	0	0	0	0.008	0.162	0.020	0	0.004	0.004	0	0	0.016
4	2022	0	0	0	0	0.007	0.161	0.015	0	0.008	0.005	0	0	0.016
5	2023	0	0	0	0	0.004	0.166	0.018	0	0	0.004	0	0	0.016
6	2024	0	0	0	0	0.009	0.143	0.018	0	0	0.005	0	0	0.014
7	2025	0	0	0	0	0.011	0.143	0.020	0.002	0	0.004	0	0	0.015
8	2026	0	0	0	0	0.003	0.182	0.019	0	0.005	0.004	0	0	0.018
9	2027	0	0	0	0	0.009	0.131	0.016	0	0	0.005	0	0	0.013
10	2028	0	0	0	0	0.008	0.168	0.020	0	0	0.004	0	0	0.017
11	2029	0	0	0	0	0.010	0.145	0.021	0	0.006	0.004	0	0	0.015
12	2030	0	0	0	0	0.003	0.145	0.020	0	0	0.005	0	0	0.014
13	2031	0	0	0	0	0.007	0.187	0.021	0	0	0.004	0	0	0.018
14	2032	0	0	0	0	0.033	0.147	0.020	0	0	0.004	0	0	0.017
15	2033	0	0	0	0	0.008	0.147	0.021	0	0	0.004	0	0	0.015
16	2034	0	0	0	0	0.011	0.185	0.020	0	0.014	0.006	0	0	0.020
17	2035	0	0	0	0	0.008	0.153	0.022	0	0	0.004	0	0	0.015
18	2036	0	0	0	0	0.008	0.159	0.027	0.005	0	0.004	0	0	0.017
19	2037	0	0	0	0	0.037	0.201	0.022	0	0	0.005	0	0	0.022
20	2038	0	0	0	0	0.008	0.161	0.022	0	0.010	0.004	0	0	0.017
21	2039	0	0	0	0	0.019	0.132	0.024	0	0.013	0.005	0	0	0.016
22	2040	0	0	0	0	0.056	0.185	0.015	0.006	0	0.004	0	0	0.022

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-24. Simulated Project-affected Flows at Glenn Lake Outflow under 1-in-20-Year Wet Runoff Coonditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0.011	0.598	0.806	0.213	0.170	0.170	0.165	0.007	0	0.179
1	2019	0	0	0	0.022	0.485	0.815	0.274	0.175	0.153	0.165	0.012	0	0.176
2	2020	0	0	0	0.012	0.522	0.821	0.307	0.181	0.172	0.150	0.007	0	0.182
3	2021	0	0	0	0.012	0.516	0.818	0.215	0.149	0.146	0.159	0.005	0	0.169
4	2022	0	0	0	0.006	0.547	0.812	0.171	0.218	0.152	0.182	0.012	0	0.176
5	2023	0	0	0	0.022	0.523	0.824	0.276	0.172	0.154	0.162	0.012	0	0.180
6	2024	0	0	0	0.012	0.547	0.815	0.186	0.171	0.175	0.160	0.006	0	0.173
7	2025	0	0	0	0.012	0.547	0.805	0.278	0.151	0.154	0.174	0.013	0	0.178
8	2026	0	0	0	0.012	0.549	0.813	0.172	0.183	0.154	0.168	0.006	0	0.172
9	2027	0	0	0	0.011	0.549	0.813	0.280	0.174	0.206	0.175	0.018	0	0.186
10	2028	0	0	0	0.023	0.593	0.805	0.221	0.222	0.156	0.168	0.004	0	0.183
11	2029	0	0	0	0.014	0.545	0.810	0.281	0.122	0.153	0.176	0.007	0	0.176
12	2030	0	0	0	0.016	0.539	0.796	0.222	0.185	0.157	0.184	0.007	0	0.176
13	2031	0	0	0	0.017	0.563	0.813	0.283	0.177	0.208	0.170	0.007	0	0.187
14	2032	0	0	0	0.056	0.545	0.798	0.285	0.155	0.158	0.163	0.006	0	0.181
15	2033	0	0	0	0.021	0.555	0.799	0.225	0.179	0.158	0.172	0.006	0	0.177
16	2034	0	0	0.000	0.022	0.546	0.812	0.175	0.124	0.155	0.174	0.007	0	0.169
17	2035	0	0	0	0.023	0.547	0.819	0.229	0.188	0.162	0.186	0.030	0	0.183
18	2036	0	0	0	0.024	0.642	0.829	0.231	0.185	0.183	0.164	0.004	0	0.189
19	2037	0	0	0	0.026	0.626	0.811	0.293	0.186	0.238	0.197	0.010	0	0.200
20	2038	0	0	0	0.029	0.528	0.804	0.232	0.190	0.164	0.180	0.013	0	0.179
21	2039	0	0	0	0.029	0.641	0.821	0.294	0.187	0.215	0.187	0.013	0	0.200
22	2040	0	0	0	0.022	0.641	0.779	0.296	0.188	0.177	0.187	0.015	0	0.193

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-25. Simulated Project-affected Flows at Trout Lake Outflow 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	0.081	0.725	0.109	0.082	0.108	0.008	0	0	0.092
1	2019	0	0	0	0	0.081	0.725	0.109	0.082	0.108	0.008	0	0	0.092
2	2020	0	0	0	0	0.083	0.724	0.109	0.082	0.108	0.008	0	0	0.092
3	2021	0	0	0	0	0.085	0.724	0.109	0.083	0.109	0.008	0	0	0.093
4	2022	0	0	0	0	0.087	0.724	0.109	0.083	0.109	0.008	0	0	0.093
5	2023	0	0	0	0	0.089	0.724	0.110	0.083	0.109	0.008	0	0	0.093
6	2024	0	0	0	0	0.092	0.724	0.110	0.083	0.109	0.008	0	0	0.093
7	2025	0	0	0	0	0.094	0.724	0.110	0.083	0.110	0.008	0	0	0.094
8	2026	0	0	0	0	0.096	0.724	0.111	0.084	0.110	0.008	0	0	0.094
9	2027	0	0	0	0	0.099	0.724	0.111	0.084	0.110	0.008	0	0	0.094
10	2028	0	0	0	0	0.101	0.724	0.111	0.084	0.110	0.008	0	0	0.094
11	2029	0	0	0	0	0.103	0.724	0.111	0.084	0.110	0.008	0	0	0.095
12	2030	0	0	0	0	0.106	0.724	0.112	0.084	0.111	0.008	0	0	0.095
13	2031	0	0	0	0	0.108	0.724	0.112	0.085	0.111	0.008	0	0	0.095
14	2032	0	0	0	0	0.110	0.724	0.112	0.085	0.111	0.008	0	0	0.095
15	2033	0	0	0	0	0.112	0.724	0.112	0.085	0.112	0.008	0	0	0.096
16	2034	0	0	0	0	0.115	0.723	0.113	0.085	0.112	0.008	0	0	0.096
17	2035	0	0	0	0	0.117	0.723	0.113	0.085	0.112	0.008	0	0	0.096
18	2036	0	0	0	0	0.119	0.723	0.113	0.086	0.113	0.008	0	0	0.096
19	2037	0	0	0	0	0.122	0.723	0.113	0.086	0.113	0.008	0	0	0.097
20	2038	0	0	0	0	0.124	0.723	0.114	0.086	0.113	0.008	0	0	0.097
21	2039	0	0	0	0	0.126	0.723	0.114	0.086	0.113	0.008	0	0	0.097
22	2040	0	0	0	0	0.128	0.723	0.114	0.086	0.114	0.008	0	0	0.097

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-26. Simulated Project-affected Flows at Trout Lake Outflow 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	0.007	0.040	0.017	0.040	0.039	0.007	0	0	0.013
1	2019	0	0	0	0	0.010	0.057	0.032	0.036	0.039	0.008	0	0	0.015
2	2020	0	0	0	0	0.012	0.041	0.021	0.033	0.036	0.007	0	0	0.012
3	2021	0	0	0	0	0.012	0.038	0.027	0.033	0.041	0.006	0	0	0.013
4	2022	0	0	0	0	0.011	0.057	0.016	0.033	0.040	0.008	0	0	0.014
5	2023	0	0	0	0	0.007	0.041	0.035	0.041	0.039	0.006	0	0	0.014
6	2024	0	0	0	0	0.013	0.030	0.018	0.033	0.040	0.008	0	0	0.012
7	2025	0	0	0	0	0.017	0.041	0.022	0.041	0.039	0.006	0	0	0.014
8	2026	0	0	0	0	0.005	0.030	0.016	0.033	0.041	0.007	0	0	0.011
9	2027	0	0	0	0	0.014	0.041	0.018	0.037	0.039	0.008	0	0	0.013
10	2028	0	0	0	0	0.013	0.041	0.022	0.033	0.039	0.006	0	0	0.013
11	2029	0	0	0	0	0.016	0.031	0.018	0.036	0.041	0.007	0	0	0.012
12	2030	0	0	0	0	0.005	0.031	0.020	0.034	0.040	0.008	0	0	0.011
13	2031	0	0	0	0	0.011	0.037	0.020	0.037	0.042	0.007	0	0	0.013
14	2032	0	0	0	0	0.049	0.031	0.018	0.034	0.040	0.006	0	0	0.015
15	2033	0	0	0	0	0.013	0.034	0.023	0.034	0.040	0.006	0	0	0.012
16	2034	0	0	0	0	0.018	0.030	0.019	0.037	0.042	0.010	0	0	0.013
17	2035	0	0	0	0	0.013	0.034	0.020	0.037	0.040	0.007	0	0	0.013
18	2036	0	0	0	0	0.013	0.031	0.034	0.042	0.042	0.006	0	0	0.014
19	2037	0	0	0	0	0.059	0.031	0.019	0.034	0.041	0.007	0	0	0.016
20	2038	0	0	0	0	0.013	0.034	0.020	0.034	0.040	0.006	0	0	0.012
21	2039	0	0	0	0	0.029	0.031	0.034	0.038	0.043	0.008	0	0	0.015
22	2040	0	0	0	0	0.087	0.035	0.019	0.034	0.041	0.007	0	0	0.019

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-27. Simulated Project-affected Flows at Trout Lake Outflow under 1-in-20-Year Wet Runoff Coonditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0.019	0.974	0.845	0.269	0.249	0.176	0.266	0.011	0	0.236
1	2019	0	0	0	0.036	0.745	0.899	0.354	0.249	0.181	0.266	0.020	0	0.230
2	2020	0	0	0	0.019	0.840	0.845	0.364	0.279	0.181	0.242	0.011	0	0.233
3	2021	0	0	0	0.019	0.828	0.876	0.270	0.217	0.185	0.257	0.008	0	0.223
4	2022	0	0	0	0.009	0.881	0.836	0.235	0.281	0.181	0.292	0.020	0	0.229
5	2023	0	0	0	0.036	0.821	0.876	0.357	0.252	0.184	0.255	0.020	0	0.235
6	2024	0	0	0	0.019	0.880	0.825	0.258	0.282	0.182	0.258	0.009	0	0.228
7	2025	0	0	0	0.019	0.847	0.792	0.358	0.219	0.184	0.277	0.020	0	0.228
8	2026	0	0	0	0.019	0.869	0.865	0.237	0.253	0.183	0.270	0.009	0	0.227
9	2027	0	0	0	0.017	0.876	0.811	0.360	0.254	0.187	0.282	0.029	0	0.236
10	2028	0	0	0	0.036	0.896	0.795	0.275	0.299	0.179	0.271	0.007	0	0.231
11	2029	0	0	0	0.021	0.897	0.784	0.361	0.196	0.185	0.283	0.012	0	0.230
12	2030	0	0	0	0.024	0.883	0.806	0.276	0.255	0.177	0.295	0.012	0	0.229
13	2031	0	0	0	0.026	0.915	0.837	0.363	0.256	0.188	0.273	0.012	0	0.241
14	2032	0	0	0	0.084	0.878	0.742	0.364	0.222	0.189	0.263	0.009	0	0.231
15	2033	0	0	0	0.031	0.870	0.760	0.278	0.257	0.182	0.277	0.009	0	0.223
16	2034	0	0	0.000	0.033	0.853	0.768	0.241	0.198	0.187	0.279	0.012	0	0.216
17	2035	0	0	0	0.036	0.881	0.766	0.279	0.258	0.188	0.299	0.047	0	0.231
18	2036	0	0	0	0.038	1.037	0.768	0.279	0.258	0.193	0.265	0.007	0	0.239
19	2037	0	0	0	0.042	0.933	0.715	0.368	0.274	0.195	0.317	0.015	0	0.240
20	2038	0	0	0	0.043	0.846	0.771	0.280	0.259	0.180	0.289	0.021	0	0.226
21	2039	0	0	0	0.045	1.036	0.777	0.369	0.260	0.201	0.301	0.021	0	0.253
22	2040	0	0	0	0.032	1.036	0.682	0.370	0.276	0.199	0.301	0.022	0	0.245

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-28. Simulated Project-affected Flows at Stickleback Lake Outflow 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	0.058	0.001	0	0	0	0	0	0.005
1	2019	0	0	0	0	0	0.058	0.001	0	0	0	0	0	0.005
2	2020	0	0	0	0	0	0.057	0.001	0	0	0	0	0	0.005
3	2021	0	0	0	0	0	0.056	0.001	0	0	0	0	0	0.005
4	2022	0	0	0	0	0	0.056	0.001	0	0	0	0	0	0.005
5	2023	0	0	0	0	0	0.056	0.001	0	0	0	0	0	0.005
6	2024	0	0	0	0	0	0.056	0.001	0	0	0	0	0	0.005
7	2025	0	0	0	0	0	0.056	0.001	0	0	0	0	0	0.005
8	2026	0	0	0	0	0	0.057	0.001	0	0	0	0	0	0.005
9	2027	0	0	0	0	0	0.057	0.001	0	0	0	0	0	0.005
10	2028	0	0	0	0	0	0.057	0.001	0	0	0	0	0	0.005
11	2029	0	0	0	0	0	0.058	0.001	0	0	0	0	0	0.005
12	2030	0	0	0	0	0	0.058	0.001	0	0	0	0	0	0.005
13	2031	0	0	0	0	0	0.058	0.001	0	0	0	0	0	0.005
14	2032	0	0	0	0	0	0.059	0.001	0	0	0	0	0	0.005
15	2033	0	0	0	0	0	0.059	0.001	0	0	0	0	0	0.005
16	2034	0	0	0	0	0	0.059	0.001	0	0	0	0	0	0.005
17	2035	0	0	0	0	0	0.062	0.001	0	0	0	0	0	0.005
18	2036	0	0	0	0	0	0.064	0.001	0	0	0	0	0	0.005
19	2037	0	0	0	0	0	0.064	0.001	0	0	0	0	0	0.005
20	2038	0	0	0	0	0	0.064	0.001	0	0	0	0	0	0.005
21	2039	0	0	0	0	0	0.065	0.001	0	0	0	0	0	0.005
22	2040	0	0	0	0	0	0.065	0.001	0	0	0	0	0	0.005

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-29. Simulated Project-affected Flows at Stickleback Lake Outflow under 1-in-20-Year Dry Runoff Coonditions (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 (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-30. Simulated Project-affected Flows at Stickleback Lake Outflow 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	0.000	0.065	0.084	0.006	0	0.007	0.010	0.001	0	0.014
1	2019	0	0	0	0.000	0.058	0.087	0.006	0.001	0.007	0.012	0.002	0	0.014
2	2020	0	0	0	0.000	0.062	0.085	0.018	0.001	0.011	0.009	0.000	0	0.016
3	2021	0	0	0	0.000	0.058	0.085	0.006	0	0.002	0.008	0.000	0	0.013
4	2022	0	0	0	0.000	0.059	0.084	0.004	0.001	0.010	0.011	0.002	0	0.014
5	2023	0	0	0	0.001	0.058	0.081	0.015	0	0.006	0.008	0.002	0	0.014
6	2024	0	0	0	0.000	0.062	0.082	0.004	0	0.006	0.011	0.000	0	0.014
7	2025	0	0	0	0.001	0.060	0.077	0.016	0	0.006	0.008	0.002	0	0.014
8	2026	0	0	0	0.001	0.061	0.082	0.004	0	0.006	0.012	0.001	0	0.014
9	2027	0	0	0	0.000	0.062	0.081	0.016	0	0.011	0.009	0.002	0	0.015
10	2028	0	0	0	0.002	0.072	0.079	0.007	0.003	0.011	0.013	0	0	0.016
11	2029	0	0	0	0.000	0.066	0.078	0.017	0	0.003	0.009	0.001	0	0.015
12	2030	0	0	0	0.001	0.066	0.077	0.006	0.001	0.011	0.013	0.001	0	0.015
13	2031	0	0	0	0.000	0.064	0.077	0.004	0	0.007	0.010	0.001	0	0.014
14	2032	0	0	0	0.003	0.075	0.073	0.017	0.001	0.007	0.010	0.001	0	0.016
15	2033	0	0	0	0.001	0.069	0.072	0.004	0	0.007	0.010	0.001	0	0.014
16	2034	0	0	0	0.001	0.074	0.074	0.004	0	0.004	0.010	0.001	0	0.014
17	2035	0	0	0	0.001	0.072	0.076	0.006	0.001	0.011	0.013	0.005	0	0.015
18	2036	0	0	0	0.001	0.079	0.071	0.007	0.001	0.008	0.013	0.000	0	0.015
19	2037	0	0	0	0.001	0.076	0.069	0.019	0.001	0.011	0.013	0.001	0	0.016
20	2038	0	0	0	0.005	0.073	0.071	0.006	0.001	0.009	0.013	0.002	0	0.015
21	2039	0	0	0	0.000	0.080	0.081	0.005	0.000	0.009	0.013	0.002	0	0.016
22	2040	0	0	0	0.001	0.081	0.066	0.019	0.001	0.009	0.013	0.001	0	0.016

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-31. Simulated Project-affected Flows at Aimaokatalok Lake Outflow 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	3.05	27.87	4.00	3.01	4.15	0.30	0	0	3.51
1	2019	0	0	0	0	3.08	27.86	4.01	3.02	4.15	0.30	0	0	3.51
2	2020	0	0	0	0	3.13	27.84	4.01	3.02	4.16	0.30	0	0	3.52
3	2021	0	0	0	0	3.21	27.82	4.02	3.02	4.16	0.30	0	0	3.53
4	2022	0.00	0.00	0.00	0.00	3.30	27.81	4.02	3.03	4.17	0.30	0.00	0.00	3.53
5	2023	0.00	0.00	0.00	0.00	3.38	27.81	4.04	3.04	4.18	0.30	0.00	0.00	3.54
6	2024	0.00	0.00	0.00	0.00	3.46	27.81	4.04	3.04	4.19	0.30	0.00	0.00	3.55
7	2025	0.00	0.00	0.00	0.00	3.54	27.80	4.05	3.05	4.19	0.30	0.00	0.00	3.56
8	2026	0.00	0.00	0.00	0.00	3.63	27.80	4.07	3.06	4.21	0.30	0.00	0.00	3.57
9	2027	0.00	0.00	0.00	0.00	3.72	27.80	4.07	3.07	4.21	0.31	0.00	0.00	3.58
10	2028	0.00	0.00	0.00	0.00	3.81	27.80	4.08	3.08	4.22	0.31	0.00	0.00	3.59
11	2029	0.00	0.00	0.00	0.00	3.89	27.80	4.10	3.08	4.23	0.31	0.00	0.00	3.60
12	2030	0.00	0.00	0.00	0.00	3.98	27.80	4.10	3.09	4.24	0.31	0.00	0.00	3.61
13	2031	0.00	0.00	0.00	0.00	4.07	27.80	4.11	3.10	4.25	0.31	0.00	0.00	3.62
14	2032	0.00	0.00	0.00	0.00	4.17	27.80	4.13	3.11	4.26	0.31	0.00	0.00	3.63
15	2033	0	0	0	0	4.27	27.80	4.14	3.12	4.29	0.31	0	0	3.64
16	2034	0	0	0	0	4.36	27.77	4.15	3.12	4.29	0.31	0	0	3.65
17	2035	0.00	0	0	0	4.48	27.78	4.16	3.14	4.31	0.31	0	0	3.66
18	2036	0	0	0	0	4.58	27.78	4.17	3.15	4.32	0.31	0	0	3.68
19	2037	0	0	0	0	4.67	27.78	4.18	3.15	4.33	0.31	0	0	3.69
20	2038	0	0	0	0	4.76	27.78	4.19	3.16	4.34	0.32	0	0	3.69
21	2039	0	0	0	0	4.85	27.77	4.20	3.17	4.34	0.32	0	0	3.70
22	2040	0	0	0	0	4.93	27.77	4.22	3.18	4.36	0.32	0	0	3.71

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-32. Simulated Project-affected Flows at Aimaokatalok Lake Outflow under 1-in-20-Year Dry Runoff Coonditions (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	0.27	1.49	0.57	1.47	1.44	0.27	0	0	0.46
1	2019	0	0	0	0	0.35	2.14	1.20	0.91	1.48	0.30	0	0	0.53
2	2020	0	0	0	0	0.43	1.51	0.57	0.95	1.35	0.26	0	0	0.42
3	2021	0	0	0	0	0.43	1.40	0.96	1.15	1.46	0.23	0	0	0.47
4	2022	0.00	0.00	0.00	0.00	0.38	2.15	0.49	0.92	1.47	0.30	0.00	0.00	0.48
5	2023	0.00	0.00	0.00	0.00	0.22	1.50	1.25	1.48	1.47	0.23	0.00	0.00	0.51
6	2024	0.00	0.00	0.00	0.00	0.49	1.08	0.58	0.96	1.47	0.28	0.00	0.00	0.41
7	2025	0.00	0.00	0.00	0.00	0.59	1.52	0.73	1.49	1.46	0.23	0.00	0.00	0.50
8	2026	0.00	0.00	0.00	0.00	0.16	1.08	0.58	0.94	1.48	0.27	0.00	0.00	0.38
9	2027	0.00	0.00	0.00	0.00	0.47	1.52	0.50	0.94	1.46	0.30	0.00	0.00	0.43
10	2028	0.00	0.00	0.00	0.00	0.42	1.53	0.74	1.17	1.47	0.23	0.00	0.00	0.46
11	2029	0.00	0.00	0.00	0.00	0.53	1.09	0.67	1.18	1.49	0.25	0.00	0.00	0.44
12	2030	0.00	0.00	0.00	0.00	0.16	1.10	0.67	1.18	1.48	0.30	0.00	0.00	0.41
13	2031	0.00	0.00	0.00	0.00	0.36	1.38	0.67	0.96	1.50	0.28	0.00	0.00	0.43
14	2032	0.00	0.00	0.00	0.00	1.88	1.10	0.59	1.01	1.49	0.23	0.00	0.00	0.53
15	2033	0	0	0	0	0.44	1.23	0.76	1.19	1.49	0.23	0	0	0.45
16	2034	0	0	0	0	0.64	1.09	0.60	0.98	1.59	0.38	0	0	0.44
17	2035	0.00	0	0	0	0.48	1.24	0.69	1.00	1.50	0.28	0	0	0.43
18	2036	0	0	0	0	0.49	1.12	1.26	1.54	1.51	0.24	0	0	0.52
19	2037	0	0	0	0	2.27	1.13	0.61	1.05	1.51	0.28	0	0	0.57
20	2038	0	0	0	0	0.50	1.24	0.70	1.21	1.52	0.24	0	0	0.45
21	2039	0	0	0	0	1.12	1.11	1.27	1.02	1.55	0.31	0	0	0.53
22	2040	0	0	0	0	3.35	1.27	0.62	1.21	1.52	0.24	0	0	0.69

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-33. Simulated Project-affected Flows at Aimaokatalok Lake Outflow under 1-in-20-Year Wet Runoff Coonditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0.67	37.37	32.52	10.20	9.50	6.76	10.19	0.44	0	
1	2019	0	0	0	1.33	28.54	34.61	13.49	9.50	6.94	10.20	0.76	0	
2	2020	0	0	0	0.67	32.21	32.53	13.89	10.64	6.92	9.27	0.44	0	
3	2021	0	0	0	0.67	31.79	33.71	10.23	8.24	7.09	9.83	0.29	0	
4	2022	0.00	0.00	0.00	0.30	33.74	32.13	8.85	10.67	6.94	11.19	0.76	0.00	
5	2023	0.00	0.00	0.00	1.33	31.51	33.71	13.58	9.57	7.06	9.78	0.76	0.00	
6	2024	0.00	0.00	0.00	0.66	33.70	31.71	9.74	10.72	6.98	9.89	0.35	0.00	
7	2025	0.00	0.00	0.00	0.66	32.49	30.43	13.64	8.31	7.07	10.61	0.77	0.00	
8	2026	0.00	0.00	0.00	0.66	33.29	33.19	8.93	9.62	7.00	10.33	0.35	0.00	
9	2027	0.00	0.00	0.00	0.58	33.58	31.19	13.70	9.65	7.18	10.80	1.10	0.00	
10	2028	0.00	0.00	0.00	1.33	34.33	30.53	10.38	11.23	6.86	10.38	0.26	0.00	
11	2029	0.00	0.00	0.00	0.76	34.39	30.14	13.76	7.48	7.09	10.84	0.45	0.00	
12	2030	0.00	0.00	0.00	0.85	33.81	30.88	10.43	9.70	6.76	11.31	0.45	0.00	
13	2031	0.00	0.00	0.00	0.94	35.08	32.18	13.82	9.73	7.19	10.44	0.45	0.00	
14	2032	0.00	0.00	0.00	3.18	33.63	28.49	13.85	8.43	7.23	10.05	0.36	0.00	
15	2033	0	0	0	1.15	33.33	29.11	10.50	9.76	6.98	10.58	0.36	0	
16	2034	0	0	0.01	1.24	32.75	29.50	9.09	7.56	7.17	10.69	0.45	0	
17	2035	0.00	0	0	1.36	33.79	29.42	10.55	9.82	7.22	11.44	1.80	0	
18	2036	0	0	0	1.46	39.76	29.48	10.58	9.83	7.42	10.14	0.27	0	
19	2037	0	0	0	1.59	35.92	27.45	14.01	10.44	7.49	12.13	0.58	0	
20	2038	0	0	0	1.65	32.47	29.60	10.62	9.88	6.88	11.08	0.79	0	
21	2039	0	0	0	1.74	39.76	29.88	14.06	9.90	7.71	11.53	0.82	0	
22	2040	0	0	0	1.24	39.76	26.19	14.09	10.51	7.64	11.55	0.86	0	

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-34. Simulated Project-affected Flows at 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	3.47	31.66	4.66	3.51	4.72	0.34	0	0	4.01
1	2019	0	0	0	0	3.50	31.66	4.66	3.52	4.72	0.34	0	0	4.01
2	2020	0	0	0	0	3.56	31.63	4.66	3.52	4.72	0.34	0	0	4.01
3	2021	0	0	0	0	3.66	31.62	4.67	3.53	4.73	0.34	0	0	4.02
4	2022	0.00	0.00	0.00	0.00	3.75	31.60	4.68	3.53	4.74	0.34	0.00	0.00	4.03
5	2023	0.00	0.00	0.00	0.00	3.85	31.60	4.69	3.54	4.75	0.34	0.00	0.00	4.04
6	2024	0.00	0.00	0.00	0.00	3.94	31.60	4.70	3.55	4.76	0.35	0.00	0.00	4.05
7	2025	0.00	0.00	0.00	0.00	4.03	31.60	4.72	3.56	4.77	0.35	0.00	0.00	4.06
8	2026	0.00	0.00	0.00	0.00	4.13	31.60	4.73	3.57	4.78	0.35	0.00	0.00	4.08
9	2027	0.00	0.00	0.00	0.00	4.23	31.60	4.74	3.58	4.79	0.35	0.00	0.00	4.09
10	2028	0.00	0.00	0.00	0.00	4.33	31.60	4.75	3.58	4.80	0.35	0.00	0.00	4.10
11	2029	0.00	0.00	0.00	0.00	4.43	31.60	4.76	3.59	4.81	0.35	0.00	0.00	4.11
12	2030	0.00	0.00	0.00	0.00	4.53	31.60	4.77	3.60	4.82	0.35	0.00	0.00	4.12
13	2031	0.00	0.00	0.00	0.00	4.63	31.59	4.78	3.61	4.83	0.35	0.00	0.00	4.13
14	2032	0.00	0.00	0.00	0.00	4.75	31.59	4.79	3.62	4.84	0.35	0.00	0.00	4.14
15	2033	0	0	0	0	4.85	31.59	4.81	3.63	4.87	0.35	0	0	4.16
16	2034	0	0	0	0	4.95	31.56	4.82	3.64	4.88	0.35	0	0	4.16
17	2035	0.00	0	0	0	5.09	31.57	4.83	3.66	4.90	0.36	0	0	4.18
18	2036	0	0	0	0	5.20	31.57	4.85	3.66	4.91	0.36	0	0	4.19
19	2037	0	0	0	0	5.30	31.57	4.86	3.67	4.92	0.36	0	0	4.20
20	2038	0	0	0	0	5.40	31.57	4.87	3.68	4.93	0.36	0	0	4.21
21	2039	0	0	0	0	5.50	31.57	4.88	3.69	4.94	0.36	0	0	4.23
22	2040	0	0	0	0	5.60	31.56	4.89	3.70	4.95	0.36	0	0	4.24

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-35. Simulated Project-affected Flows at 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	0.31	1.73	0.74	1.73	1.67	0.31	0	0	0.54
1	2019	0	0	0	0	0.43	2.46	1.44	1.19	1.70	0.34	0	0	0.63
2	2020	0	0	0	0	0.51	1.74	0.74	1.21	1.54	0.30	0	0	0.50
3	2021	0	0	0	0	0.50	1.63	1.19	1.38	1.72	0.26	0	0	0.56
4	2022	0.00	0.00	0.00	0.00	0.44	2.47	0.67	1.19	1.71	0.34	0.00	0.00	0.57
5	2023	0.00	0.00	0.00	0.00	0.25	1.74	1.51	1.74	1.70	0.27	0.00	0.00	0.60
6	2024	0.00	0.00	0.00	0.00	0.56	1.27	0.75	1.22	1.70	0.32	0.00	0.00	0.49
7	2025	0.00	0.00	0.00	0.00	0.68	1.76	0.95	1.74	1.69	0.26	0.00	0.00	0.59
8	2026	0.00	0.00	0.00	0.00	0.18	1.28	0.75	1.21	1.73	0.31	0.00	0.00	0.46
9	2027	0.00	0.00	0.00	0.00	0.54	1.75	0.68	1.21	1.69	0.34	0.00	0.00	0.52
10	2028	0.00	0.00	0.00	0.00	0.48	1.77	0.96	1.40	1.69	0.26	0.00	0.00	0.55
11	2029	0.00	0.00	0.00	0.00	0.61	1.29	0.86	1.41	1.75	0.29	0.00	0.00	0.52
12	2030	0.00	0.00	0.00	0.00	0.19	1.29	0.87	1.42	1.70	0.34	0.00	0.00	0.49
13	2031	0.00	0.00	0.00	0.00	0.41	1.60	0.87	1.23	1.76	0.31	0.00	0.00	0.52
14	2032	0.00	0.00	0.00	0.00	2.13	1.30	0.77	1.27	1.71	0.27	0.00	0.00	0.62
15	2033	0	0	0	0	0.51	1.43	0.97	1.43	1.72	0.27	0	0	0.53
16	2034	0	0	0	0	0.74	1.28	0.78	1.26	1.82	0.43	0	0	0.53
17	2035	0.00	0	0	0	0.55	1.44	0.89	1.28	1.73	0.32	0	0	0.52
18	2036	0	0	0	0	0.56	1.32	1.50	1.80	1.79	0.28	0	0	0.61
19	2037	0	0	0	0	2.58	1.32	0.79	1.31	1.75	0.32	0	0	0.68
20	2038	0	0	0	0	0.56	1.45	0.90	1.45	1.74	0.28	0	0	0.53
21	2039	0	0	0	0	1.27	1.30	1.51	1.30	1.85	0.35	0	0	0.64
22	2040	0	0	0	0	3.80	1.48	0.79	1.46	1.76	0.28	0	0	0.80

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-36. Simulated Project-affected Flows at Koignuk River 1 under 1-in-20-Year Wet Runoff Coonditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	0.81	42.53	36.95	11.68	10.85	7.70	11.60	0.50	0	10.29
1	2019	0	0	0	1.55	32.49	39.31	15.41	10.85	7.89	11.60	0.87	0	10.05
2	2020	0	0	0	0.78	36.62	36.95	15.87	12.15	7.87	10.54	0.50	0	10.17
3	2021	0	0	0	0.77	36.14	38.28	11.71	9.41	8.06	11.17	0.33	0	9.71
4	2022	0.00	0.00	0.00	0.35	38.34	36.50	10.15	12.19	7.90	12.73	0.87	0.00	9.98
5	2023	0.00	0.00	0.00	1.52	35.80	38.29	15.51	10.92	8.02	11.12	0.87	0.00	10.23
6	2024	0.00	0.00	0.00	0.76	38.31	36.04	11.17	12.24	7.93	11.24	0.40	0.00	9.91
7	2025	0.00	0.00	0.00	0.76	36.94	34.58	15.57	9.49	8.03	12.07	0.87	0.00	9.93
8	2026	0.00	0.00	0.00	0.76	37.86	37.75	10.24	10.98	7.96	11.75	0.40	0.00	9.87
9	2027	0.00	0.00	0.00	0.66	38.16	35.44	15.64	11.02	8.15	12.28	1.25	0.00	10.29
10	2028	0.00	0.00	0.00	1.52	39.02	34.70	11.89	12.86	7.79	11.80	0.30	0.00	10.06
11	2029	0.00	0.00	0.00	0.87	39.13	34.24	15.71	8.54	8.06	12.33	0.51	0.00	10.02
12	2030	0.00	0.00	0.00	0.97	38.46	35.14	11.94	11.08	7.69	12.87	0.51	0.00	9.96
13	2031	0.00	0.00	0.00	1.08	39.87	36.55	15.77	11.10	8.17	11.87	0.51	0.00	10.48
14	2032	0.00	0.00	0.00	3.61	38.23	32.38	15.81	9.64	8.22	11.43	0.40	0.00	10.05
15	2033	0	0	0	1.31	37.90	33.14	12.02	11.14	7.94	12.04	0.41	0	9.72
16	2034	0	0	0.01	1.41	37.18	33.53	10.42	8.63	8.16	12.16	0.51	0	9.39
17	2035	0.00	0	0	1.54	38.42	33.43	12.08	11.21	8.20	13.01	2.04	0	10.06
18	2036	0	0	0	1.66	45.21	33.50	12.10	11.22	8.43	11.53	0.30	0	10.41
19	2037	0	0	0	1.81	40.77	31.21	15.99	11.92	8.51	13.80	0.66	0	10.47
20	2038	0	0	0	1.87	36.92	33.63	12.16	11.27	7.82	12.60	0.90	0	9.83
21	2039	0	0	0	1.97	45.21	33.95	16.05	11.30	8.76	13.11	0.94	0	11.03
22	2040	0	0	0	1.41	45.18	29.78	16.09	12.00	8.68	13.13	0.98	0	10.69

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-37. Simulated Project-affected Flows at 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	5.11	46.49	7.20	5.47	6.93	0.50	0	0	5.94
1	2019	0	0	0	0	5.16	46.49	7.21	5.47	6.93	0.50	0	0	5.95
2	2020	0	0	0	0	5.24	46.45	7.21	5.48	6.94	0.50	0	0	5.95
3	2021	0	0	0	0	5.38	46.45	7.23	5.49	6.96	0.51	0	0	5.97
4	2022	0.00	0.00	0.00	0.00	5.53	46.41	7.24	5.50	6.97	0.51	0.00	0.00	5.98
5	2023	0.00	0.00	0.00	0.00	5.67	46.41	7.26	5.51	6.98	0.51	0.00	0.00	6.00
6	2024	0.00	0.00	0.00	0.00	5.80	46.41	7.27	5.52	6.99	0.51	0.00	0.00	6.01
7	2025	0.00	0.00	0.00	0.00	5.94	46.41	7.29	5.54	7.01	0.51	0.00	0.00	6.03
8	2026	0.00	0.00	0.00	0.00	6.09	46.41	7.31	5.55	7.03	0.51	0.00	0.00	6.05
9	2027	0.00	0.00	0.00	0.00	6.24	46.41	7.33	5.56	7.04	0.51	0.00	0.00	6.06
10	2028	0.00	0.00	0.00	0.00	6.38	46.41	7.34	5.57	7.06	0.51	0.00	0.00	6.08
11	2029	0.00	0.00	0.00	0.00	6.53	46.41	7.36	5.59	7.07	0.51	0.00	0.00	6.09
12	2030	0.00	0.00	0.00	0.00	6.68	46.41	7.37	5.60	7.08	0.52	0.00	0.00	6.11
13	2031	0.00	0.00	0.00	0.00	6.82	46.41	7.39	5.61	7.10	0.52	0.00	0.00	6.13
14	2032	0.00	0.00	0.00	0.00	6.98	46.41	7.41	5.63	7.11	0.52	0.00	0.00	6.14
15	2033	0	0	0	0	7.14	46.41	7.43	5.64	7.16	0.52	0	0	6.16
16	2034	0	0	0	0	7.28	46.37	7.44	5.65	7.18	0.52	0	0	6.18
17	2035	0.00	0	0	0	7.46	46.37	7.47	5.67	7.20	0.52	0	0	6.20
18	2036	0	0	0	0	7.62	46.37	7.48	5.69	7.21	0.53	0	0	6.21
19	2037	0	0	0	0	7.77	46.37	7.50	5.70	7.23	0.53	0	0	6.23
20	2038	0	0	0	0	7.92	46.37	7.52	5.71	7.24	0.53	0	0	6.25
21	2039	0	0	0	0	8.06	46.37	7.53	5.72	7.26	0.53	0	0	6.26
22	2040	0	0	0	0	8.21	46.37	7.55	5.73	7.27	0.53	0	0	6.28

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-38. Simulated Project-affected Flows at 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	0.45	2.63	1.40	2.70	2.52	0.46	0	0	0.85
1	2019	0	0	0	0	0.60	3.70	2.35	2.23	2.62	0.50	0	0	1.00
2	2020	0	0	0	0	0.76	2.65	1.41	2.21	2.30	0.45	0	0	0.82
3	2021	0	0	0	0	0.76	2.55	2.06	2.30	2.71	0.40	0	0	0.90
4	2022	0.00	0.00	0.00	0.00	0.66	3.72	1.38	2.24	2.55	0.50	0.00	0.00	0.92
5	2023	0.00	0.00	0.00	0.00	0.40	2.65	2.54	2.72	2.55	0.41	0.00	0.00	0.94
6	2024	0.00	0.00	0.00	0.00	0.84	2.02	1.42	2.23	2.65	0.48	0.00	0.00	0.81
7	2025	0.00	0.00	0.00	0.00	1.02	2.67	1.78	2.74	2.59	0.40	0.00	0.00	0.94
8	2026	0.00	0.00	0.00	0.00	0.28	2.03	1.43	2.27	2.67	0.46	0.00	0.00	0.76
9	2027	0.00	0.00	0.00	0.00	0.82	2.67	1.40	2.27	2.57	0.50	0.00	0.00	0.86
10	2028	0.00	0.00	0.00	0.00	0.75	2.69	1.79	2.33	2.53	0.41	0.00	0.00	0.88
11	2029	0.00	0.00	0.00	0.00	0.93	2.05	1.62	2.34	2.76	0.43	0.00	0.00	0.85
12	2030	0.00	0.00	0.00	0.00	0.29	2.05	1.64	2.35	2.60	0.51	0.00	0.00	0.79
13	2031	0.00	0.00	0.00	0.00	0.64	2.46	1.64	2.30	2.60	0.47	0.00	0.00	0.85
14	2032	0.00	0.00	0.00	0.00	3.13	2.06	1.45	2.30	2.55	0.41	0.00	0.00	1.00
15	2033	0	0	0	0	0.77	2.23	1.82	2.36	2.64	0.41	0	0	0.86
16	2034	0	0	0	0	1.11	2.02	1.46	2.33	2.72	0.64	0	0	0.86
17	2035	0.00	0	0	0	0.81	2.25	1.66	2.36	2.62	0.47	0	0	0.85
18	2036	0	0	0	0	0.83	2.09	2.45	2.81	2.81	0.42	0	0	0.96
19	2037	0	0	0	0	3.79	2.10	1.48	2.35	2.67	0.47	0	0	1.08
20	2038	0	0	0	0	0.83	2.26	1.68	2.40	2.65	0.42	0	0	0.86
21	2039	0	0	0	0	1.87	2.05	2.47	2.39	2.75	0.52	0	0	1.01
22	2040	0	0	0	0	5.58	2.30	1.49	2.40	2.69	0.43	0	0	1.25

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.

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-39. Simulated Project-affected Flows at Koignuk River 2 under 1-in-20-Year Wet Runoff Coonditions (m³/s)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	2018	0	0	0	1.15	62.50	54.21	17.44	16.10	11.31	17.05	0.73	0	15.14
1	2019	0	0	0	2.25	47.72	57.64	22.86	16.10	11.57	17.05	1.27	0	14.79
2	2020	0	0	0	1.15	53.84	54.21	23.58	18.04	11.57	15.50	0.73	0	14.98
3	2021	0	0	0	1.15	53.13	56.13	17.50	14.01	11.82	16.44	0.48	0	14.30
4	2022	0.00	0.00	0.00	0.53	56.41	53.55	15.23	18.11	11.60	18.72	1.28	0.00	14.72
5	2023	0.00	0.00	0.00	2.25	52.57	56.13	23.02	16.22	11.76	16.33	1.28	0.00	15.06
6	2024	0.00	0.00	0.00	1.14	56.38	52.93	16.73	18.19	11.66	16.54	0.59	0.00	14.61
7	2025	0.00	0.00	0.00	1.14	54.32	50.77	23.12	14.12	11.80	17.75	1.29	0.00	14.63
8	2026	0.00	0.00	0.00	1.14	55.63	55.56	15.36	16.30	11.70	17.29	0.59	0.00	14.55
9	2027	0.00	0.00	0.00	1.00	56.04	52.04	23.22	16.36	11.97	18.07	1.84	0.00	15.15
10	2028	0.00	0.00	0.00	2.26	57.31	50.96	17.76	19.20	11.44	17.36	0.44	0.00	14.83
11	2029	0.00	0.00	0.00	1.30	57.57	50.31	23.32	12.68	11.86	18.14	0.75	0.00	14.77
12	2030	0.00	0.00	0.00	1.45	56.56	51.77	17.84	16.44	11.32	18.93	0.75	0.00	14.69
13	2031	0.00	0.00	0.00	1.61	58.69	53.67	23.42	16.48	12.00	17.47	0.75	0.00	15.45
14	2032	0.00	0.00	0.00	5.30	56.23	47.61	23.47	14.34	12.07	16.81	0.60	0.00	14.80
15	2033	0	0	0	1.93	55.78	48.88	17.95	16.54	11.67	17.70	0.60	0	14.36
16	2034	0	0	0.02	2.08	54.73	49.27	15.63	12.82	11.99	17.89	0.75	0	13.85
17	2035	0.00	0	0	2.26	56.49	49.07	18.04	16.64	12.04	19.13	2.99	0	14.82
18	2036	0	0	0	2.43	66.46	49.19	18.07	16.65	12.38	16.95	0.45	0	15.33
19	2037	0	0	0	2.66	59.66	45.91	23.72	17.69	12.48	20.29	0.98	0	15.41
20	2038	0	0	0	2.74	54.29	49.38	18.15	16.73	11.52	18.53	1.33	0	14.49
21	2039	0	0	0	2.89	66.46	49.85	23.82	16.76	12.85	19.28	1.37	0	16.23
22	2040	0	0	0	2.07	66.46	43.79	23.86	17.80	12.74	19.32	1.43	0	15.76

Reference: Water and Load Balance Model (Appendix V3-2D).

Note: The Water and Load Balance Model (Appendix V3-2D) incorporates the effects of climate change (Appendix V3-2A) on streamflows.