

Appendix V5-1M

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



Appendix V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-1. Simulated Baseline 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	0.074	0.002	0	0	0	0	0	0.006
6	2024	0	0	0	0	0	0.074	0.002	0	0	0	0	0	0.006
7	2025	0	0	0	0	0	0.074	0.002	0	0	0	0	0	0.006
8	2026	0	0	0	0	0	0.075	0.002	0	0	0	0	0	0.006
9	2027	0	0	0	0	0	0.075	0.002	0	0	0	0	0	0.006
10	2028	0	0	0	0	0	0.076	0.002	0	0	0	0	0	0.006
11	2029	0	0	0	0	0	0.076	0.002	0	0	0	0	0	0.006
12	2030	0	0	0	0	0	0.076	0.002	0	0	0	0	0	0.006
13	2031	0	0	0	0	0	0.077	0.002	0	0	0	0	0	0.006
14	2032	0	0	0	0	0	0.077	0.002	0	0	0	0	0	0.006
15	2033	0	0	0	0	0	0.077	0.002	0	0	0	0	0	0.006
16	2034	0	0	0	0	0	0.078	0.002	0	0	0	0	0	0.007
17	2035	0	0	0	0	0	0.078	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	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-2. Simulated Baseline Flows at Wolverine 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	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-3. Simulated Baseline 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	0.016	0.002	0	0.019
6	2024	0	0	0	0.001	0.082	0.093	0.008	0.000	0.012	0.016	0.001	0	0.018
7	2025	0	0	0	0.001	0.079	0.089	0.023	0.004	0.012	0.017	0.002	0	0.019
8	2026	0	0	0	0.002	0.078	0.092	0.007	0.004	0.012	0.016	0.001	0	0.018
9	2027	0	0	0	0.000	0.078	0.091	0.023	0.004	0.013	0.016	0.003	0	0.019
10	2028	0	0	0	0.002	0.087	0.089	0.008	0.012	0.013	0.016	0	0	0.019
11	2029	0	0	0	0.001	0.080	0.088	0.024	0.001	0.011	0.016	0.001	0	0.019
12	2030	0	0	0	0.001	0.083	0.086	0.008	0.007	0.013	0.017	0.001	0	0.018
13	2031	0	0	0	0.001	0.079	0.087	0.008	0.001	0.013	0.017	0.001	0	0.017
14	2032	0	0	0	0.011	0.088	0.083	0.024	0.001	0.013	0.017	0.001	0	0.020
15	2033	0	0	0	0.001	0.085	0.082	0.008	0.004	0.013	0.018	0.001	0	0.018
16	2034	0	0	0	0.001	0.086	0.084	0.008	0.002	0.012	0.018	0.001	0	0.018
17	2035	0	0	0	0.001	0.084	0.084	0.008	0.006	0.013	0.020	0.005	0	0.019
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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-4. Simulated Baseline 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	0.122	0.333	0.154	0.089	0	0	0	0	0.058
4	2022	0	0	0	0	0.124	0.333	0.155	0.089	0	0	0	0	0.059
5	2023	0	0	0	0	0.125	0.334	0.155	0.089	0	0	0	0	0.059
6	2024	0	0	0	0	0.126	0.335	0.155	0.089	0	0	0	0	0.059
7	2025	0	0	0	0	0.127	0.335	0.156	0.090	0	0	0	0	0.059
8	2026	0	0	0	0	0.128	0.336	0.156	0.090	0	0	0	0	0.059
9	2027	0	0	0	0	0.130	0.337	0.156	0.090	0	0	0	0	0.060
10	2028	0	0	0	0	0.131	0.338	0.157	0.090	0	0	0	0	0.060
11	2029	0	0	0	0	0.132	0.338	0.157	0.091	0	0	0	0	0.060
12	2030	0	0	0	0	0.134	0.339	0.157	0.091	0	0	0	0	0.060
13	2031	0	0	0	0	0.135	0.340	0.158	0.091	0	0	0	0	0.061
14	2032	0	0	0	0	0.136	0.341	0.158	0.091	0	0	0	0	0.061
15	2033	0	0	0	0	0.137	0.341	0.158	0.091	0	0	0	0	0.061
16	2034	0	0	0	0	0.139	0.342	0.159	0.092	0	0	0	0	0.061
17	2035	0	0	0	0	0.140	0.343	0.159	0.092	0	0	0	0	0.061
18	2036	0	0	0	0	0.141	0.344	0.160	0.092	0	0	0	0	0.062
19	2037	0	0	0	0	0.143	0.345	0.160	0.092	0	0	0	0	0.062
20	2038	0	0	0	0	0.144	0.346	0.160	0.093	0	0	0	0	0.062
21	2039	0	0	0	0	0.145	0.346	0.161	0.093	0	0	0	0	0.062
22	2040	0	0	0	0	0.147	0.347	0.161	0.093	0	0	0	0	0.063

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-5. Simulated Baseline Flows at Patch 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	0.101	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	0.119	0.194	0.093	0.059	0	0	0	0	0.039
4	2022	0	0	0	0	0.117	0.196	0.096	0.060	0	0	0	0	0.039
5	2023	0	0	0	0	0.106	0.197	0.087	0.059	0	0	0	0	0.038
6	2024	0	0	0	0	0.119	0.199	0.095	0.060	0	0	0	0	0.040
7	2025	0	0	0	0	0.134	0.201	0.088	0.061	0	0	0	0	0.041
8	2026	0	0	0	0	0.120	0.199	0.088	0.061	0	0	0	0	0.039
9	2027	0	0	0	0	0.128	0.205	0.098	0.061	0	0	0	0	0.041
10	2028	0	0	0	0	0.127	0.203	0.089	0.061	0	0	0	0	0.040
11	2029	0	0	0	0	0.128	0.213	0.101	0.061	0	0	0	0	0.042
12	2030	0	0	0	0	0.130	0.206	0.090	0.062	0	0	0	0	0.041
13	2031	0	0	0	0	0.112	0.202	0.100	0.062	0	0	0	0	0.040
14	2032	0	0	0	0	0.137	0.205	0.102	0.061	0	0	0	0	0.042
15	2033	0	0	0	0	0.132	0.204	0.091	0.062	0	0	0	0	0.041
16	2034	0	0	0	0	0.155	0.222	0.103	0.062	0	0	0	0	0.045
17	2035	0	0	0	0	0.120	0.205	0.091	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-6. Simulated Baseline Flows at Patch 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	0.003	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	0.545	0.278	0.160	0.000	0	0	0	0.141
3	2021	0	0	0	0.003	0.669	0.542	0.234	0.157	0	0	0	0	0.135
4	2022	0	0	0	0.003	0.686	0.544	0.223	0.202	0.000	0	0	0	0.139
5	2023	0	0	0	0.004	0.685	0.491	0.278	0.161	0.000	0	0	0	0.136
6	2024	0	0	0	0.004	0.769	0.548	0.240	0.154	0.000	0	0	0	0.144
7	2025	0	0	0	0.004	0.713	0.540	0.277	0.162	0.000	0	0	0	0.143
8	2026	0	0	0	0.004	0.775	0.548	0.225	0.158	0.000	0	0	0	0.144
9	2027	0	0	0	0.004	0.747	0.541	0.282	0.163	0.000	0	0	0	0.146
10	2028	0	0	0	0.005	0.808	0.538	0.241	0.207	0.000	0	0	0	0.151
11	2029	0	0	0	0.004	0.783	0.551	0.281	0.157	0.000	0	0	0	0.149
12	2030	0	0	0	0.004	0.798	0.485	0.235	0.159	0.000	0	0	0	0.141
13	2031	0	0	0	0.004	0.815	0.542	0.260	0.165	0.000	0	0	0	0.150
14	2032	0	0	0	0.005	0.877	0.539	0.284	0.166	0.000	0	0	0	0.157
15	2033	0	0	0	0.004	0.851	0.542	0.235	0.160	0.000	0	0	0	0.151
16	2034	0	0	0	0.004	0.876	0.547	0.236	0.153	0.000	0	0	0	0.153
17	2035	0	0	0	0.005	0.862	0.499	0.233	0.161	0.000	0	0	0	0.148
18	2036	0	0	0	0.005	0.898	0.543	0.244	0.162	0.000	0	0	0	0.156
19	2037	0	0	0	0.005	0.883	0.532	0.288	0.162	0.000	0	0	0	0.157
20	2038	0	0	0	0.005	0.862	0.491	0.229	0.159	0.000	0	0	0	0.147
21	2039	0	0	0	0.005	0.888	0.552	0.293	0.163	0.000	0	0	0	0.160
22	2040	0	0	0	0.006	0.908	0.483	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-7. Simulated Baseline 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	0.111	0.416	0.130	0.180	0.000	0	0	0	0.070
4	2022	0	0	0	0	0.113	0.417	0.131	0.181	0.000	0	0	0	0.070
5	2023	0	0	0	0	0.114	0.418	0.131	0.181	0.000	0	0	0	0.071
6	2024	0	0	0	0	0.115	0.419	0.131	0.182	0.000	0	0	0	0.071
7	2025	0	0	0	0	0.116	0.419	0.132	0.182	0.000	0	0	0	0.071
8	2026	0	0	0	0	0.118	0.421	0.132	0.182	0.000	0	0	0	0.071
9	2027	0	0	0	0	0.119	0.422	0.132	0.183	0.000	0	0	0	0.072
10	2028	0	0	0	0	0.120	0.422	0.133	0.183	0.000	0	0	0	0.072
11	2029	0	0	0	0	0.121	0.424	0.133	0.184	0.000	0	0	0	0.072
12	2030	0	0	0	0	0.123	0.424	0.133	0.184	0.000	0	0	0	0.072
13	2031	0	0	0	0	0.124	0.426	0.134	0.185	0.000	0	0	0	0.073
14	2032	0	0	0	0	0.125	0.426	0.134	0.185	0.000	0	0	0	0.073
15	2033	0	0	0	0	0.126	0.427	0.134	0.185	0.000	0	0	0	0.073
16	2034	0	0	0	0	0.128	0.428	0.135	0.186	0.000	0	0	0	0.073
17	2035	0	0	0	0	0.129	0.429	0.135	0.186	0.000	0	0	0	0.074
18	2036	0	0	0	0	0.130	0.431	0.135	0.187	0.000	0	0	0	0.074
19	2037	0	0	0	0	0.132	0.432	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	0.434	0.137	0.188	0.000	0	0	0	0.075
22	2040	0	0	0	0	0.136	0.435	0.137	0.189	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-8. Simulated Baseline 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	0.113	0.166	0.069	0.058	0	0	0	0	0.034
4	2022	0	0	0	0	0.110	0.173	0.072	0.056	0	0	0	0	0.034
5	2023	0	0	0	0	0.104	0.166	0.063	0.056	0	0	0	0	0.033
6	2024	0	0	0	0	0.108	0.170	0.071	0.056	0	0	0	0	0.034
7	2025	0	0	0	0	0.126	0.181	0.072	0.067	0	0	0	0	0.037
8	2026	0	0	0	0	0.109	0.168	0.074	0.057	0	0	0	0	0.034
9	2027	0	0	0	0	0.123	0.187	0.074	0.060	0	0	0	0	0.037
10	2028	0	0	0	0	0.117	0.172	0.065	0.060	0	0	0	0	0.035
11	2029	0	0	0	0	0.122	0.192	0.077	0.062	0	0	0	0	0.038
12	2030	0	0	0	0	0.122	0.187	0.077	0.059	0	0	0	0	0.037
13	2031	0	0	0	0	0.120	0.171	0.076	0.059	0	0	0	0	0.036
14	2032	0	0	0	0	0.144	0.175	0.077	0.065	0	0	0	0	0.039
15	2033	0	0	0	0	0.126	0.173	0.078	0.065	0	0	0	0	0.037
16	2034	0	0	0	0	0.148	0.191	0.079	0.059	0	0	0	0	0.040
17	2035	0	0	0	0	0.133	0.174	0.067	0.060	0	0	0	0	0.036
18	2036	0	0	0	0	0.132	0.192	0.085	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-9. Simulated Baseline Flows at PO 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	0.014	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	1.083	0.563	0.323	0.245	0.055	0	0	0	0.192
4	2022	0	0	0	0.006	0.902	0.537	0.304	0.257	0.111	0	0	0	0.178
5	2023	0	0	0	0.004	1.070	0.545	0.329	0.246	0.127	0	0	0	0.195
6	2024	0	0	0	0.007	1.116	0.530	0.295	0.259	0.081	0	0	0	0.193
7	2025	0	0	0	0.006	1.157	0.529	0.306	0.254	0.097	0	0	0	0.198
8	2026	0	0	0	0.007	1.198	0.529	0.298	0.249	0.156	0	0	0	0.205
9	2027	0	0	0	0.005	1.019	0.560	0.307	0.346	0.097	0.002	0	0	0.197
10	2028	0	0	0	0.007	1.307	0.530	0.304	0.262	0.084	0	0	0	0.210
11	2029	0	0	0	0.007	1.070	0.560	0.382	0.250	0.082	0	0	0	0.198
12	2030	0	0	0	0.015	1.078	0.573	0.299	0.263	0.158	0	0	0	0.201
13	2031	0	0	0	0.005	1.299	0.559	0.307	0.266	0.158	0.004	0	0	0.219
14	2032	0	0	0	0.019	1.288	0.579	0.303	0.284	0.126	0	0	0	0.219
15	2033	0	0	0	0.008	1.216	0.535	0.312	0.253	0.106	0	0	0	0.205
16	2034	0	0	0	0.008	1.146	0.560	0.312	0.253	0.134	0.002	0	0	0.203
17	2035	0	0	0	0.009	0.946	0.563	0.304	0.353	0.118	0.017	0	0	0.194
18	2036	0	0	0	0.007	1.313	0.513	0.314	0.286	0.125	0	0	0	0.216
19	2037	0	0	0	0.008	1.202	0.514	0.315	0.261	0.099	0	0	0	0.202
20	2038	0	0	0	0.015	1.221	0.544	0.393	0.268	0.110	0	0	0	0.215
21	2039	0	0	0	0.010	1.123	0.566	0.308	0.271	0.160	0.067	0	0	0.211
22	2040	0	0	0	0.006	1.317	0.531	0.319	0.289	0.065	0	0	0	0.213

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-10. Simulated Baseline 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	0.091	1.106	0.085	0.775	0.003	0	0	0	0.172
4	2022	0	0	0	0	0.092	1.108	0.086	0.777	0.003	0	0	0	0.172
5	2023	0	0	0	0	0.093	1.110	0.086	0.778	0.003	0	0	0	0.173
6	2024	0	0	0	0	0.095	1.113	0.086	0.780	0.003	0	0	0	0.173
7	2025	0	0	0	0	0.096	1.115	0.087	0.781	0.003	0	0	0	0.174
8	2026	0	0	0	0	0.097	1.118	0.087	0.783	0.003	0	0	0	0.174
9	2027	0	0	0	0	0.098	1.120	0.087	0.785	0.003	0	0	0	0.175
10	2028	0	0	0	0	0.100	1.123	0.088	0.786	0.003	0	0	0	0.175
11	2029	0	0	0	0	0.101	1.125	0.088	0.788	0.004	0	0	0	0.176
12	2030	0	0	0	0	0.102	1.128	0.088	0.790	0.004	0	0	0	0.176
13	2031	0	0	0	0	0.103	1.130	0.089	0.792	0.004	0	0	0	0.177
14	2032	0	0	0	0	0.105	1.133	0.089	0.793	0.004	0	0	0	0.177
15	2033	0	0	0	0	0.106	1.135	0.089	0.795	0.004	0	0	0	0.178
16	2034	0	0	0	0	0.107	1.138	0.090	0.796	0.004	0	0	0	0.178
17	2035	0	0	0	0	0.109	1.140	0.090	0.798	0.004	0	0	0	0.179
18	2036	0	0	0	0	0.110	1.143	0.091	0.800	0.004	0	0	0	0.179
19	2037	0	0	0	0	0.111	1.146	0.091	0.802	0.004	0	0	0	0.180
20	2038	0	0	0	0	0.113	1.149	0.091	0.803	0.004	0	0	0	0.180
21	2039	0	0	0	0	0.114	1.151	0.092	0.805	0.004	0	0	0	0.181
22	2040	0	0	0	0	0.115	1.154	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-11. Simulated Baseline Flows at Ogama 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	0.082	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	0.125	0.108	0.024	0.053	0	0	0	0	0.026
4	2022	0	0	0	0	0.101	0.116	0.027	0.048	0	0	0	0	0.024
5	2023	0	0	0	0	0.102	0.109	0.018	0.047	0	0	0	0	0.023
6	2024	0	0	0	0	0.116	0.112	0.026	0.040	0	0	0	0	0.025
7	2025	0	0	0	0	0.115	0.124	0.027	0.060	0	0	0	0	0.027
8	2026	0	0	0	0	0.108	0.111	0.030	0.049	0	0	0	0	0.025
9	2027	0	0	0	0	0.111	0.130	0.029	0.053	0	0	0	0	0.027
10	2028	0	0	0	0	0.096	0.115	0.020	0.056	0	0	0	0	0.024
11	2029	0	0	0	0	0.134	0.135	0.032	0.057	0	0	0	0	0.030
12	2030	0	0	0	0	0.116	0.129	0.032	0.051	0	0	0	0	0.028
13	2031	0	0	0	0	0.119	0.114	0.031	0.050	0	0	0	0	0.026
14	2032	0	0	0	0	0.124	0.117	0.033	0.057	0	0	0	0	0.028
15	2033	0	0	0	0	0.127	0.116	0.033	0.062	0	0	0	0	0.028
16	2034	0	0	0	0	0.141	0.134	0.034	0.047	0	0	0	0	0.030
17	2035	0	0	0	0	0.113	0.117	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	0.036	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-12. Simulated Baseline Flows at Ogama 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	0.100	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	1.073	1.122	0.998	0.512	0	0	0	0.749
4	2022	0	0	0	0.025	4.006	1.110	0.990	1.109	0.936	0	0	0	0.689
5	2023	0	0	0	0.010	4.637	1.622	1.044	1.247	0.993	0	0	0	0.804
6	2024	0	0	0	0.026	4.981	0.982	0.489	1.004	0.686	0	0	0	0.689
7	2025	0	0	0	0.026	4.786	1.119	1.131	1.062	0.815	0	0	0	0.754
8	2026	0	0	0	0.026	4.309	0.853	1.049	1.008	1.294	0	0	0	0.719
9	2027	0	0	0	0.010	4.264	1.811	1.000	1.846	0.818	0.017	0	0	0.822
10	2028	0	0	0	0.027	6.220	1.127	0.495	1.086	0.691	0	0	0	0.814
11	2029	0	0	0	0.062	5.081	1.091	1.803	1.016	0.693	0	0	0	0.823
12	2030	0	0	0	0.106	4.734	1.984	1.007	0.790	1.325	0	0	0	0.835
13	2031	0	0	0	0.010	4.839	1.656	0.848	1.406	1.328	0.031	0	0	0.851
14	2032	0	0	0	0.108	6.187	1.138	0.501	1.443	1.032	0	0	0	0.878
15	2033	0	0	0	0.063	5.682	1.100	1.485	1.080	0.891	0	0	0	0.869
16	2034	0	0	0	0.028	4.951	1.059	1.154	1.026	1.194	0.017	0	0	0.794
17	2035	0	0	0	0.017	4.742	1.838	1.019	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	5.701	1.109	1.023	1.147	0.872	0	0	0	0.834
20	2038	0	0	0	0.109	4.854	1.025	1.840	0.982	0.922	0	0	0	0.821
21	2039	0	0	0	0.018	5.052	1.851	0.796	1.430	1.350	0.561	0	0	0.930
22	2040	0	0	0	0.010	5.309	0.957	1.169	1.467	0.574	0	0	0	0.801

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-13. Simulated Baseline 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	0.053	1.520	0.546	0.225	0.252	0.111	0.014	0	0.226
1	2019	0	0	0	0	0.054	1.521	0.546	0.225	0.252	0.111	0.014	0	0.226
2	2020	0	0	0	0	0.055	1.524	0.546	0.225	0.253	0.111	0.014	0	0.227
3	2021	0	0	0	0	0.056	1.530	0.546	0.226	0.254	0.112	0.014	0	0.228
4	2022	0	0	0	0	0.058	1.536	0.547	0.227	0.255	0.112	0.014	0	0.228
5	2023	0	0	0	0	0.059	1.542	0.547	0.228	0.255	0.112	0.014	0	0.229
6	2024	0	0	0	0	0.061	1.549	0.547	0.229	0.256	0.113	0.014	0	0.230
7	2025	0	0	0	0	0.062	1.555	0.547	0.229	0.257	0.113	0.014	0	0.231
8	2026	0	0	0	0	0.064	1.561	0.548	0.230	0.258	0.113	0.014	0	0.232
9	2027	0	0	0	0	0.065	1.566	0.548	0.231	0.259	0.114	0.014	0	0.233
10	2028	0	0	0	0	0.067	1.572	0.549	0.232	0.259	0.114	0.014	0	0.233
11	2029	0	0	0	0	0.068	1.578	0.549	0.232	0.260	0.114	0.014	0	0.234
12	2030	0	0	0	0	0.070	1.583	0.550	0.233	0.261	0.115	0.014	0	0.235
13	2031	0	0	0	0	0.071	1.589	0.550	0.234	0.262	0.115	0.014	0	0.236
14	2032	0	0	0	0	0.073	1.595	0.551	0.235	0.263	0.115	0.014	0	0.237
15	2033	0	0	0	0	0.074	1.600	0.552	0.236	0.264	0.116	0.015	0	0.237
16	2034	0	0	0	0	0.076	1.604	0.553	0.236	0.265	0.117	0.015	0	0.238
17	2035	0	0	0	0	0.077	1.609	0.554	0.237	0.265	0.117	0.015	0	0.239
18	2036	0	0	0	0	0.079	1.615	0.554	0.238	0.266	0.117	0.015	0	0.240
19	2037	0	0	0	0	0.080	1.620	0.555	0.239	0.267	0.118	0.015	0	0.241
20	2038	0	0	0	0	0.082	1.625	0.556	0.240	0.268	0.118	0.015	0	0.241
21	2039	0	0	0	0	0.083	1.630	0.557	0.241	0.269	0.118	0.015	0	0.242
22	2040	0	0	0	0	0.085	1.636	0.557	0.241	0.270	0.119	0.015	0	0.243

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-14. Simulated Baseline Flows at Doris 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	0.016	0.699	0.255	0.063	0.109	0.059	0.013	0	0.101
1	2019	0	0	0	0	0.016	0.722	0.248	0.081	0.122	0.088	0.014	0	0.107
2	2020	0	0	0	0	0.019	0.733	0.255	0.076	0.082	0.085	0.014	0	0.105
3	2021	0	0	0	0	0.017	0.702	0.252	0.084	0.109	0.089	0.011	0	0.105
4	2022	0	0	0	0	0.015	0.725	0.244	0.075	0.115	0.078	0.013	0	0.105
5	2023	0	0	0	0	0.016	0.676	0.255	0.081	0.110	0.078	0.013	0	0.102
6	2024	0	0	0	0	0.018	0.689	0.241	0.076	0.113	0.090	0.014	0	0.103
7	2025	0	0	0	0	0.017	0.720	0.255	0.113	0.111	0.072	0.014	0	0.108
8	2026	0	0	0	0	0.017	0.699	0.255	0.066	0.120	0.079	0.013	0	0.104
9	2027	0	0	0	0	0.017	0.675	0.248	0.078	0.118	0.093	0.014	0	0.103
10	2028	0	0	0	0	0.018	0.683	0.256	0.075	0.112	0.073	0.014	0	0.102
11	2029	0	0	0	0	0.018	0.688	0.251	0.088	0.112	0.073	0.011	0	0.103
12	2030	0	0	0	0	0.016	0.647	0.248	0.073	0.120	0.100	0.014	0	0.101
13	2031	0	0	0	0	0.017	0.714	0.253	0.081	0.113	0.080	0.009	0	0.105
14	2032	0	0	0	0	0.030	0.648	0.255	0.074	0.126	0.093	0.014	0	0.103
15	2033	0	0	0	0	0.018	0.673	0.253	0.082	0.088	0.074	0.012	0	0.100
16	2034	0	0	0	0	0.021	0.627	0.228	0.074	0.126	0.097	0.016	0	0.099
17	2035	0	0	0	0	0.017	0.670	0.252	0.078	0.114	0.080	0.013	0	0.102
18	2036	0	0	0	0	0.027	0.641	0.264	0.097	0.115	0.074	0.014	0	0.103
19	2037	0	0	0	0	0.038	0.613	0.251	0.075	0.121	0.107	0.014	0	0.101
20	2038	0	0	0	0	0.017	0.620	0.253	0.075	0.115	0.062	0.009	0	0.096
21	2039	0	0	0	0	0.031	0.597	0.231	0.090	0.126	0.099	0.015	0	0.099
22	2040	0	0	0	0	0.039	0.644	0.256	0.077	0.122	0.074	0.012	0	0.102

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-15. Simulated Baseline Flows at Doris 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	1.570	1.944	0.742	0.627	0.557	0.471	0.211	0	0.513
1	2019	0	0	0	0	1.059	2.082	0.749	0.627	0.578	0.472	0.190	0	0.481
2	2020	0	0	0	0	1.170	2.003	0.798	0.637	0.566	0.464	0.190	0	0.487
3	2021	0	0	0	0	1.101	2.203	0.748	0.578	0.472	0.485	0.165	0	0.481
4	2022	0	0	0	0	1.072	2.105	0.741	0.639	0.560	0.482	0.245	0	0.488
5	2023	0	0	0	0	0.992	1.970	0.802	0.634	0.584	0.501	0.184	0	0.474
6	2024	0	0	0	0	1.277	2.085	0.781	0.585	0.572	0.461	0.253	0	0.503
7	2025	0	0	0	0	1.218	2.044	0.760	0.634	0.564	0.505	0.191	0	0.495
8	2026	0	0	0	0	1.160	2.147	0.746	0.645	0.575	0.498	0.257	0	0.504
9	2027	0	0	0	0	1.111	1.958	0.814	0.638	0.567	0.502	0.313	0	0.494
10	2028	0	0	0	0	1.308	2.199	0.748	0.653	0.579	0.520	0.176	0	0.517
11	2029	0	0	0	0	1.144	1.974	0.784	0.578	0.490	0.504	0.259	0	0.479
12	2030	0	0	0	0	1.261	2.088	0.746	0.652	0.572	0.513	0.194	0	0.504
13	2031	0	0	0	0	1.075	1.984	0.825	0.644	0.613	0.510	0.229	0	0.492
14	2032	0	0	0	0	1.315	2.086	0.788	0.646	0.584	0.504	0.182	0	0.511
15	2033	0	0	0	0	1.291	1.999	0.748	0.652	0.576	0.512	0.190	0	0.499
16	2034	0	0	0	0	1.302	2.102	0.748	0.587	0.503	0.519	0.261	0	0.504
17	2035	0	0	0	0	1.221	1.986	0.750	0.655	0.579	0.518	0.207	0	0.495
18	2036	0	0	0	0	1.352	2.056	0.754	0.652	0.591	0.495	0.180	0	0.509
19	2037	0	0	0	0	1.345	2.084	0.793	0.653	0.582	0.518	0.262	0	0.522
20	2038	0	0	0	0	1.327	2.035	0.755	0.663	0.595	0.525	0.195	0	0.510
21	2039	0	0	0	0	1.374	2.042	0.848	0.656	0.591	0.511	0.267	0	0.526
22	2040	0	0	0	0	1.358	2.055	0.787	0.659	0.597	0.522	0.209	0	0.518

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-16. Simulated Baseline 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	0.350	5.216	1.463	0.734	0.830	0.246	0.028	0	0.736
1	2019	0	0	0	0	0.353	5.220	1.462	0.735	0.830	0.246	0.028	0	0.737
2	2020	0	0	0	0	0.359	5.224	1.463	0.736	0.832	0.247	0.028	0	0.738
3	2021	0	0	0	0	0.369	5.235	1.465	0.738	0.834	0.247	0.028	0	0.741
4	2022	0	0	0	0	0.379	5.247	1.466	0.740	0.836	0.248	0.028	0	0.743
5	2023	0	0	0	0	0.389	5.258	1.468	0.742	0.839	0.249	0.028	0	0.745
6	2024	0	0	0	0	0.399	5.274	1.468	0.744	0.841	0.249	0.028	0	0.748
7	2025	0	0	0	0	0.409	5.285	1.470	0.746	0.843	0.250	0.028	0	0.750
8	2026	0	0	0	0	0.419	5.297	1.472	0.749	0.845	0.251	0.028	0	0.753
9	2027	0	0	0	0	0.429	5.309	1.473	0.750	0.848	0.252	0.029	0	0.755
10	2028	0	0	0	0	0.439	5.320	1.475	0.753	0.850	0.252	0.029	0	0.757
11	2029	0	0	0	0	0.449	5.332	1.477	0.755	0.852	0.253	0.029	0	0.760
12	2030	0	0	0	0	0.458	5.343	1.479	0.757	0.855	0.254	0.029	0	0.762
13	2031	0	0	0	0	0.469	5.351	1.481	0.759	0.857	0.255	0.029	0	0.764
14	2032	0	0	0	0	0.479	5.363	1.483	0.761	0.859	0.255	0.029	0	0.767
15	2033	0	0	0	0	0.488	5.374	1.485	0.764	0.864	0.257	0.029	0	0.769
16	2034	0	0	0	0	0.498	5.382	1.487	0.766	0.866	0.258	0.029	0	0.772
17	2035	0	0	0	0	0.509	5.390	1.490	0.768	0.868	0.259	0.029	0	0.774
18	2036	0	0	0	0	0.518	5.401	1.493	0.770	0.871	0.260	0.029	0	0.776
19	2037	0	0	0	0	0.528	5.413	1.495	0.772	0.873	0.260	0.030	0	0.779
20	2038	0	0	0	0	0.538	5.421	1.498	0.775	0.875	0.261	0.030	0	0.781
21	2039	0	0	0	0	0.548	5.432	1.501	0.777	0.878	0.262	0.030	0	0.783
22	2040	0	0	0	0	0.558	5.444	1.502	0.779	0.880	0.263	0.030	0	0.786

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-17. Simulated Baseline Flows at Little Roberts 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	0.059	1.525	0.640	0.441	0.357	0.138	0.026	0	0.265
1	2019	0	0	0	0	0.073	1.536	0.686	0.365	0.455	0.245	0.028	0	0.282
2	2020	0	0	0	0	0.070	1.790	0.724	0.358	0.297	0.205	0.028	0	0.289
3	2021	0	0	0	0	0.080	1.606	0.650	0.426	0.367	0.203	0.023	0	0.279
4	2022	0	0	0	0	0.073	1.653	0.646	0.362	0.406	0.173	0.026	0	0.278
5	2023	0	0	0	0	0.069	1.505	0.730	0.335	0.364	0.173	0.027	0	0.267
6	2024	0	0	0	0	0.081	1.529	0.612	0.355	0.368	0.228	0.029	0	0.267
7	2025	0	0	0	0	0.110	1.645	0.718	0.438	0.365	0.150	0.028	0	0.288
8	2026	0	0	0	0	0.075	1.527	0.658	0.359	0.372	0.174	0.026	0	0.266
9	2027	0	0	0	0	0.075	1.524	0.621	0.343	0.370	0.250	0.028	0	0.268
10	2028	0	0	0	0	0.094	1.534	0.654	0.397	0.370	0.151	0.028	0	0.269
11	2029	0	0	0	0	0.171	1.534	0.659	0.443	0.375	0.152	0.023	0	0.280
12	2030	0	0	0	0	0.089	1.474	0.730	0.439	0.375	0.253	0.029	0	0.283
13	2031	0	0	0	0	0.076	1.754	0.649	0.351	0.376	0.177	0.019	0	0.283
14	2032	0	0	0	0	0.343	1.451	0.653	0.350	0.458	0.210	0.029	0	0.291
15	2033	0	0	0	0	0.091	1.560	0.726	0.447	0.314	0.153	0.024	0	0.276
16	2034	0	0	0	0	0.095	1.459	0.615	0.354	0.460	0.222	0.032	0	0.270
17	2035	0	0	0	0	0.090	1.548	0.738	0.354	0.381	0.178	0.027	0	0.276
18	2036	0	0	0	0	0.096	1.446	0.759	0.454	0.383	0.154	0.029	0	0.277
19	2037	0	0	0	0	0.340	1.490	0.646	0.349	0.491	0.210	0.029	0	0.296
20	2038	0	0	0	0	0.073	1.446	0.693	0.453	0.384	0.144	0.019	0	0.268
21	2039	0	0	0	0	0.091	1.444	0.644	0.353	0.478	0.225	0.030	0	0.272
22	2040	0	0	0	0	0.485	1.459	0.700	0.493	0.385	0.154	0.025	0	0.309

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-18. Simulated Baseline 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	6.246	6.493	2.143	1.899	1.677	1.763	0.459	0	1.737
1	2019	0	0	0	0.107	4.323	6.647	2.152	2.002	1.546	1.705	0.445	0	1.584
2	2020	0	0	0	0.056	4.742	6.478	2.760	1.925	1.687	1.708	0.446	0	1.658
3	2021	0	0	0	0.056	4.406	6.489	2.152	1.907	1.391	1.735	0.395	0	1.551
4	2022	0	0	0	0.027	4.346	6.690	2.064	2.123	1.528	1.867	0.497	0	1.602
5	2023	0	0	0	0.108	4.230	6.528	2.676	2.021	1.562	1.719	0.373	0	1.609
6	2024	0	0	0	0.056	5.160	6.705	2.070	1.925	1.710	1.707	0.513	0	1.661
7	2025	0	0	0	0.056	5.044	6.265	2.693	1.949	1.541	1.826	0.449	0	1.661
8	2026	0	0	0	0.057	4.704	6.674	2.073	1.924	1.545	1.821	0.522	0	1.617
9	2027	0	0	0	0.050	4.361	6.188	2.709	2.035	1.855	1.825	0.635	0	1.646
10	2028	0	0	0	0.109	5.238	6.636	2.186	2.154	1.555	1.839	0.380	0	1.683
11	2029	0	0	0	0.065	4.469	6.632	2.725	1.611	1.423	1.854	0.525	0	1.616
12	2030	0	0	0	0.072	5.141	6.547	2.193	1.973	1.562	1.874	0.394	0	1.654
13	2031	0	0	0	0.079	4.484	6.512	2.740	1.940	1.873	1.841	0.637	0	1.683
14	2032	0	0	0	0.253	5.227	6.462	2.754	1.984	1.572	1.686	0.431	0	1.706
15	2033	0	0	0	0.093	5.096	6.138	2.210	1.952	1.574	1.867	0.416	0	1.621
16	2034	0	0	0.001	0.101	5.164	6.690	1.965	1.628	1.441	1.868	0.530	0	1.623
17	2035	0	0	0	0.108	4.906	6.435	2.216	2.071	1.583	1.893	0.456	0	1.647
18	2036	0	0	0	0.115	5.212	6.771	2.221	1.964	1.758	1.638	0.378	0	1.679
19	2037	0	0	0	0.125	5.309	6.682	2.789	1.876	1.935	1.981	0.532	0	1.778
20	2038	0	0	0	0.130	5.156	6.127	2.222	2.011	1.596	1.908	0.460	0	1.643
21	2039	0	0	0	0.137	5.234	6.404	2.806	1.965	1.907	1.912	0.642	0	1.759
22	2040	0	0	0	0.098	5.582	6.346	2.819	2.022	1.606	1.934	0.454	0	1.748

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-19. Simulated Baseline 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	0.169	0.094	0.026	0.018	0	0	0	0.025
1	2019	0	0	0	0	0	0.169	0.093	0.026	0.018	0	0	0	0.025
2	2020	0	0	0	0	0	0.170	0.093	0.026	0.018	0	0	0	0.026
3	2021	0	0	0	0	0	0.171	0.094	0.026	0.018	0	0	0	0.026
4	2022	0	0	0	0	0	0.172	0.094	0.026	0.018	0	0	0	0.026
5	2023	0	0	0	0	0	0.174	0.094	0.026	0.018	0	0	0	0.026
6	2024	0	0	0	0	0	0.175	0.094	0.026	0.018	0	0	0	0.026
7	2025	0	0	0	0	0	0.176	0.094	0.026	0.018	0	0	0	0.026
8	2026	0	0	0	0	0	0.178	0.094	0.026	0.019	0	0	0	0.026
9	2027	0	0	0	0	0	0.179	0.095	0.026	0.019	0	0	0	0.027
10	2028	0	0	0	0	0	0.180	0.095	0.027	0.019	0	0	0	0.027
11	2029	0	0	0	0	0	0.182	0.095	0.027	0.019	0	0	0	0.027
12	2030	0	0	0	0	0	0.183	0.095	0.027	0.019	0	0	0	0.027
13	2031	0	0	0	0	0	0.184	0.095	0.027	0.019	0	0	0	0.027
14	2032	0	0	0	0	0	0.186	0.096	0.027	0.019	0	0	0	0.027
15	2033	0	0	0	0	0	0.187	0.096	0.027	0.019	0	0	0	0.027
16	2034	0	0	0	0	0	0.188	0.096	0.027	0.019	0	0	0	0.028
17	2035	0	0	0	0	0	0.190	0.096	0.027	0.020	0	0	0	0.028
18	2036	0	0	0	0	0	0.191	0.097	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-20. Simulated Baseline 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	0.088	0.040	0.007	0.004	0	0	0	0.011
1	2019	0	0	0	0	0	0.112	0.040	0.008	0.004	0	0	0	0.014
2	2020	0	0	0	0	0	0.110	0.042	0.008	0.004	0	0	0	0.014
3	2021	0	0	0	0	0	0.095	0.040	0.007	0.004	0	0	0	0.012
4	2022	0	0	0	0	0	0.093	0.040	0.007	0.004	0	0	0	0.012
5	2023	0	0	0	0	0	0.110	0.040	0.007	0.004	0	0	0	0.013
6	2024	0	0	0	0	0	0.116	0.041	0.007	0.004	0	0	0	0.014
7	2025	0	0	0	0	0	0.116	0.043	0.009	0.004	0	0	0	0.014
8	2026	0	0	0	0	0	0.097	0.040	0.007	0.004	0	0	0	0.012
9	2027	0	0	0	0	0	0.117	0.044	0.008	0.004	0	0	0	0.014
10	2028	0	0	0	0	0	0.097	0.042	0.009	0.004	0	0	0	0.013
11	2029	0	0	0	0	0	0.118	0.046	0.009	0.004	0	0	0	0.015
12	2030	0	0	0	0	0	0.101	0.043	0.008	0.004	0	0	0	0.013
13	2031	0	0	0	0	0	0.111	0.041	0.007	0.004	0	0	0	0.014
14	2032	0	0	0	0	0	0.107	0.042	0.008	0.004	0	0	0	0.013
15	2033	0	0	0	0	0	0.108	0.042	0.009	0.004	0	0	0	0.013
16	2034	0	0	0	0	0	0.125	0.048	0.007	0.005	0	0	0	0.015
17	2035	0	0	0	0	0	0.103	0.042	0.008	0.004	0	0	0	0.013
18	2036	0	0	0	0	0	0.122	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-21. Simulated Baseline Flows at Windy 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	0.323	0.133	0.063	0.055	0	0	0	0.048
1	2019	0	0	0	0	0	0.318	0.136	0.067	0.076	0	0	0	0.050
2	2020	0	0	0	0	0	0.327	0.150	0.066	0.075	0	0	0	0.051
3	2021	0	0	0	0	0	0.416	0.136	0.063	0.053	0	0	0	0.055
4	2022	0	0	0	0	0	0.311	0.137	0.068	0.055	0	0	0	0.048
5	2023	0	0	0	0	0	0.328	0.130	0.068	0.077	0	0	0	0.050
6	2024	0	0	0	0	0	0.338	0.138	0.064	0.057	0	0	0	0.050
7	2025	0	0	0	0	0	0.338	0.134	0.064	0.056	0	0	0	0.049
8	2026	0	0	0	0	0	0.344	0.134	0.064	0.077	0	0	0	0.051
9	2027	0	0	0	0	0	0.340	0.141	0.070	0.056	0	0	0	0.050
10	2028	0	0	0	0	0	0.354	0.133	0.067	0.077	0	0	0	0.052
11	2029	0	0	0	0	0	0.348	0.147	0.065	0.055	0	0	0	0.051
12	2030	0	0	0	0	0	0.355	0.133	0.065	0.057	0	0	0	0.051
13	2031	0	0	0	0	0	0.353	0.122	0.080	0.084	0	0	0	0.053
14	2032	0	0	0	0	0	0.365	0.133	0.070	0.058	0	0	0	0.052
15	2033	0	0	0	0	0	0.367	0.133	0.065	0.057	0	0	0	0.052
16	2034	0	0	0	0	0	0.367	0.133	0.065	0.057	0	0	0	0.052
17	2035	0	0	0	0	0	0.362	0.122	0.067	0.058	0	0	0	0.050
18	2036	0	0	0	0	0	0.382	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-22. Simulated Baseline 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	0.625	0.095	0.038	0.071	0.005	0	0	0.073
1	2019	0	0	0	0	0.053	0.625	0.095	0.038	0.071	0.005	0	0	0.073
2	2020	0	0	0	0	0.054	0.625	0.095	0.038	0.071	0.005	0	0	0.074
3	2021	0	0	0	0	0.056	0.627	0.095	0.038	0.071	0.005	0	0	0.074
4	2022	0	0	0	0	0.057	0.628	0.095	0.038	0.072	0.005	0	0	0.074
5	2023	0	0	0	0	0.059	0.629	0.096	0.038	0.072	0.005	0	0	0.074
6	2024	0	0	0	0	0.061	0.630	0.096	0.039	0.072	0.005	0	0	0.075
7	2025	0	0	0	0	0.062	0.631	0.096	0.039	0.073	0.005	0	0	0.075
8	2026	0	0	0	0	0.064	0.632	0.097	0.039	0.073	0.005	0	0	0.075
9	2027	0	0	0	0	0.065	0.633	0.097	0.039	0.073	0.005	0	0	0.076
10	2028	0	0	0	0	0.067	0.635	0.098	0.039	0.074	0.005	0	0	0.076
11	2029	0	0	0	0	0.068	0.636	0.098	0.039	0.074	0.005	0	0	0.076
12	2030	0	0	0	0	0.070	0.637	0.098	0.040	0.074	0.005	0	0	0.077
13	2031	0	0	0	0	0.071	0.639	0.099	0.040	0.075	0.005	0	0	0.077
14	2032	0	0	0	0	0.073	0.640	0.099	0.040	0.075	0.005	0	0	0.077
15	2033	0	0	0	0	0.074	0.641	0.099	0.040	0.076	0.005	0	0	0.078
16	2034	0	0	0	0	0.076	0.642	0.100	0.040	0.076	0.005	0	0	0.078
17	2035	0	0	0	0	0.077	0.643	0.100	0.041	0.077	0.005	0	0	0.078
18	2036	0	0	0	0	0.079	0.644	0.101	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-23. Simulated Baseline Flows at Glenn 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	0.004	0.177	0.011	0	0	0.004	0	0	0.016
1	2019	0	0	0	0	0.006	0.183	0.022	0	0.009	0.005	0	0	0.019
2	2020	0	0	0	0	0.008	0.178	0.019	0	0	0.004	0	0	0.017
3	2021	0	0	0	0	0.008	0.173	0.023	0	0.007	0.004	0	0	0.018
4	2022	0	0	0	0	0.007	0.173	0.018	0	0.012	0.005	0	0	0.018
5	2023	0	0	0	0	0.004	0.178	0.020	0	0	0.004	0	0	0.017
6	2024	0	0	0	0	0.009	0.155	0.021	0	0	0.005	0	0	0.016
7	2025	0	0	0	0	0.011	0.155	0.022	0.002	0	0.004	0	0	0.016
8	2026	0	0	0	0	0.003	0.195	0.021	0.000	0.008	0.004	0	0	0.019
9	2027	0	0	0	0	0.009	0.144	0.019	0	0	0.005	0	0	0.015
10	2028	0	0	0	0	0.008	0.181	0.022	0	0	0.004	0	0	0.018
11	2029	0	0	0	0	0.010	0.157	0.025	0.000	0.008	0.004	0	0	0.017
12	2030	0	0	0	0	0.003	0.157	0.022	0	0	0.005	0	0	0.015
13	2031	0	0	0	0	0.007	0.200	0.023	0	0	0.004	0	0	0.019
14	2032	0	0	0	0	0.033	0.159	0.023	0	0	0.004	0	0	0.018
15	2033	0	0	0	0	0.008	0.158	0.024	0	0	0.004	0	0	0.016
16	2034	0	0	0	0	0.011	0.198	0.022	0	0.016	0.006	0	0	0.021
17	2035	0	0	0	0	0.008	0.159	0.023	0	0	0.004	0	0	0.016
18	2036	0	0	0	0	0.008	0.160	0.028	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-24. Simulated Baseline Flows at Glenn 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	0.011	0.598	0.822	0.217	0.173	0.173	0.165	0.007	0	0.181
1	2019	0	0	0	0.022	0.485	0.830	0.277	0.178	0.155	0.165	0.012	0	0.178
2	2020	0	0	0	0.012	0.522	0.836	0.312	0.183	0.175	0.150	0.007	0	0.184
3	2021	0	0	0	0.012	0.516	0.835	0.218	0.152	0.147	0.159	0.005	0	0.171
4	2022	0	0	0	0.006	0.547	0.827	0.176	0.221	0.155	0.182	0.012	0	0.178
5	2023	0	0	0	0.022	0.523	0.841	0.280	0.175	0.157	0.163	0.012	0	0.182
6	2024	0	0	0	0.012	0.547	0.831	0.190	0.175	0.178	0.160	0.006	0	0.175
7	2025	0	0	0	0.012	0.547	0.822	0.282	0.154	0.157	0.174	0.013	0	0.181
8	2026	0	0	0	0.012	0.549	0.829	0.177	0.185	0.157	0.168	0.006	0	0.174
9	2027	0	0	0	0.011	0.549	0.830	0.284	0.177	0.209	0.175	0.018	0	0.188
10	2028	0	0	0	0.023	0.593	0.822	0.224	0.225	0.159	0.168	0.004	0	0.186
11	2029	0	0	0	0.014	0.545	0.827	0.285	0.125	0.155	0.176	0.007	0	0.179
12	2030	0	0	0	0.016	0.539	0.815	0.226	0.187	0.160	0.184	0.007	0	0.178
13	2031	0	0	0	0.017	0.563	0.831	0.287	0.181	0.211	0.170	0.007	0	0.190
14	2032	0	0	0	0.056	0.545	0.816	0.289	0.158	0.161	0.163	0.006	0	0.184
15	2033	0	0	0	0.021	0.555	0.816	0.228	0.183	0.161	0.172	0.006	0	0.179
16	2034	0	0	0.000	0.022	0.546	0.828	0.179	0.127	0.158	0.174	0.007	0	0.171
17	2035	0	0	0	0.023	0.547	0.827	0.230	0.189	0.162	0.186	0.030	0	0.183
18	2036	0	0	0	0.024	0.642	0.830	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-25. Simulated Baseline 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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-26. Simulated Baseline Flows at Trout 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	0.007	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-27. Simulated Baseline 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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-28. Simulated Baseline 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	0.058	0.001	0	0	0	0	0	0.005
3	2021	0	0	0	0	0	0.059	0.001	0	0	0	0	0	0.005
4	2022	0	0	0	0	0	0.059	0.001	0	0	0	0	0	0.005
5	2023	0	0	0	0	0	0.059	0.001	0	0	0	0	0	0.005
6	2024	0	0	0	0	0	0.060	0.001	0	0	0	0	0	0.005
7	2025	0	0	0	0	0	0.060	0.001	0	0	0	0	0	0.005
8	2026	0	0	0	0	0	0.060	0.001	0	0	0	0	0	0.005
9	2027	0	0	0	0	0	0.061	0.001	0	0	0	0	0	0.005
10	2028	0	0	0	0	0	0.061	0.001	0	0	0	0	0	0.005
11	2029	0	0	0	0	0	0.061	0.001	0	0	0	0	0	0.005
12	2030	0	0	0	0	0	0.062	0.001	0	0	0	0	0	0.005
13	2031	0	0	0	0	0	0.062	0.001	0	0	0	0	0	0.005
14	2032	0	0	0	0	0	0.062	0.001	0	0	0	0	0	0.005
15	2033	0	0	0	0	0	0.063	0.001	0	0	0	0	0	0.005
16	2034	0	0	0	0	0	0.063	0.001	0	0	0	0	0	0.005
17	2035	0	0	0	0	0	0.063	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-29. Simulated Baseline 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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-30. Simulated Baseline Flows at Stickleback 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	0.065	0.084	0.006	0	0.007	0.010	0.001	0	0.014
1	2019	0	0	0	0.000	0.059	0.088	0.006	0.001	0.007	0.012	0.002	0	0.015
2	2020	0	0	0	0.000	0.063	0.086	0.019	0.001	0.011	0.010	0.000	0	0.016
3	2021	0	0	0	0.001	0.060	0.087	0.006	0	0.004	0.010	0.000	0	0.014
4	2022	0	0	0	0.000	0.062	0.087	0.005	0.001	0.011	0.011	0.002	0	0.015
5	2023	0	0	0	0.001	0.061	0.084	0.017	0	0.007	0.010	0.002	0	0.015
6	2024	0	0	0	0.000	0.066	0.084	0.005	0	0.007	0.012	0.001	0	0.015
7	2025	0	0	0	0.001	0.064	0.080	0.018	0	0.007	0.010	0.002	0	0.015
8	2026	0	0	0	0.001	0.063	0.084	0.004	0	0.007	0.012	0.001	0	0.014
9	2027	0	0	0	0.000	0.064	0.083	0.017	0	0.012	0.011	0.003	0	0.016
10	2028	0	0	0	0.002	0.077	0.081	0.007	0.005	0.011	0.014	0	0	0.016
11	2029	0	0	0	0.000	0.068	0.081	0.018	0	0.004	0.011	0.001	0	0.015
12	2030	0	0	0	0.001	0.068	0.079	0.006	0.001	0.011	0.013	0.001	0	0.015
13	2031	0	0	0	0.000	0.068	0.079	0.005	0	0.008	0.012	0.001	0	0.014
14	2032	0	0	0	0.005	0.079	0.075	0.018	0.001	0.008	0.012	0.001	0	0.017
15	2033	0	0	0	0.001	0.071	0.075	0.005	0.001	0.008	0.012	0.001	0	0.015
16	2034	0	0	0	0.001	0.077	0.076	0.005	0.000	0.005	0.012	0.001	0	0.015
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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-31. Simulated Baseline 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	3.09	27.87	4.01	3.02	4.16	0.30	0	0	3.52
1	2019	0	0	0	0	3.12	27.87	4.01	3.02	4.16	0.30	0	0	3.52
2	2020	0	0	0	0	3.17	27.85	4.02	3.03	4.17	0.30	0	0	3.53
3	2021	0	0	0	0	3.26	27.85	4.03	3.04	4.17	0.31	0	0	3.54
4	2022	0	0	0	0	3.35	27.85	4.04	3.04	4.18	0.31	0	0	3.54
5	2023	0	0	0	0	3.44	27.85	4.05	3.05	4.19	0.31	0	0	3.55
6	2024	0	0	0	0	3.53	27.85	4.06	3.06	4.20	0.31	0	0	3.56
7	2025	0	0	0	0	3.61	27.85	4.07	3.07	4.21	0.31	0	0	3.57
8	2026	0	0	0	0	3.70	27.85	4.08	3.07	4.22	0.31	0	0	3.58
9	2027	0	0	0	0	3.79	27.84	4.09	3.08	4.23	0.31	0	0	3.59
10	2028	0	0	0	0	3.88	27.84	4.10	3.09	4.24	0.31	0	0	3.60
11	2029	0	0	0	0	3.97	27.84	4.11	3.10	4.24	0.31	0	0	3.61
12	2030	0	0	0	0	4.05	27.84	4.12	3.11	4.26	0.31	0	0	3.62
13	2031	0	0	0	0	4.14	27.84	4.13	3.11	4.26	0.31	0	0	3.63
14	2032	0	0	0	0	4.23	27.84	4.14	3.12	4.27	0.31	0	0	3.64
15	2033	0	0	0	0	4.32	27.84	4.15	3.13	4.30	0.31	0	0	3.65
16	2034	0	0	0	0	4.41	27.81	4.16	3.14	4.31	0.31	0	0	3.66
17	2035	0	0	0	0	4.50	27.81	4.17	3.15	4.32	0.31	0	0	3.67
18	2036	0	0	0	0	4.58	27.81	4.18	3.15	4.33	0.31	0	0	3.68
19	2037	0	0	0	0	4.67	27.81	4.19	3.16	4.34	0.32	0	0	3.69
20	2038	0	0	0	0	4.76	27.81	4.20	3.17	4.34	0.32	0	0	3.70
21	2039	0	0	0	0	4.85	27.80	4.21	3.18	4.35	0.32	0	0	3.71
22	2040	0	0	0	0	4.94	27.80	4.22	3.18	4.36	0.32	0	0	3.72

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-32. Simulated Baseline Flows at Aimaokatalok 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	0.27	1.50	0.57	1.47	1.44	0.27	0	0	0.46
1	2019	0	0	0	0	0.37	2.14	1.20	0.93	1.49	0.30	0	0	0.54
2	2020	0	0	0	0	0.48	1.51	0.57	0.97	1.35	0.27	0	0	0.43
3	2021	0	0	0	0	0.48	1.40	0.97	1.16	1.46	0.23	0	0	0.48
4	2022	0	0	0	0	0.41	2.16	0.49	0.94	1.48	0.30	0	0	0.48
5	2023	0	0	0	0	0.27	1.51	1.26	1.49	1.48	0.24	0	0	0.52
6	2024	0	0	0	0	0.52	1.09	0.58	0.99	1.48	0.29	0	0	0.41
7	2025	0	0	0	0	0.64	1.53	0.74	1.50	1.47	0.24	0	0	0.51
8	2026	0	0	0	0	0.19	1.09	0.58	0.96	1.49	0.28	0	0	0.38
9	2027	0	0	0	0	0.53	1.53	0.50	0.97	1.47	0.30	0	0	0.44
10	2028	0	0	0	0	0.49	1.54	0.75	1.18	1.48	0.24	0	0	0.47
11	2029	0	0	0	0	0.60	1.10	0.67	1.19	1.51	0.26	0	0	0.44
12	2030	0	0	0	0	0.19	1.11	0.68	1.19	1.49	0.31	0	0	0.41
13	2031	0	0	0	0	0.42	1.38	0.68	0.99	1.51	0.28	0	0	0.44
14	2032	0	0	0	0	1.89	1.11	0.60	1.03	1.50	0.24	0	0	0.53
15	2033	0	0	0	0	0.49	1.23	0.76	1.20	1.50	0.24	0	0	0.45
16	2034	0	0	0	0	0.69	1.10	0.60	1.00	1.60	0.38	0	0	0.45
17	2035	0	0	0	0	0.49	1.24	0.69	1.01	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	1.25	0.70	1.22	1.52	0.24	0	0	0.45
21	2039	0	0	0	0	1.12	1.11	1.27	1.03	1.55	0.31	0	0	0.54
22	2040	0	0	0	0	3.35	1.27	0.62	1.22	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-33. Simulated Baseline 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	0.71	37.37	32.53	10.20	9.51	6.77	10.20	0.44	0	9.04
1	2019	0	0	0	1.37	28.58	34.63	13.50	9.51	6.94	10.20	0.76	0	8.84
2	2020	0	0	0	0.71	32.23	32.55	13.90	10.65	6.93	9.28	0.44	0	8.95
3	2021	0	0	0	0.71	31.81	33.74	10.25	8.25	7.11	9.84	0.29	0	8.55
4	2022	0	0	0	0.34	33.80	32.17	8.87	10.70	6.96	11.20	0.77	0	8.79
5	2023	0	0	0	1.38	31.56	33.76	13.61	9.59	7.08	9.79	0.77	0	9.02
6	2024	0	0	0	0.72	33.79	31.76	9.77	10.75	6.99	9.90	0.35	0	8.72
7	2025	0	0	0	0.72	32.52	30.47	13.67	8.33	7.09	10.63	0.77	0	8.74
8	2026	0	0	0	0.72	33.38	33.23	8.95	9.64	7.02	10.35	0.35	0	8.69
9	2027	0	0	0	0.64	33.67	31.23	13.73	9.67	7.20	10.82	1.10	0	9.07
10	2028	0	0	0	1.39	34.42	30.57	10.41	11.27	6.88	10.39	0.26	0	8.86
11	2029	0	0	0	0.82	34.42	30.17	13.79	7.50	7.11	10.85	0.45	0	8.82
12	2030	0	0	0	0.91	33.90	30.92	10.45	9.73	6.77	11.33	0.45	0	8.77
13	2031	0	0	0	1.01	35.13	32.22	13.85	9.75	7.21	10.45	0.45	0	9.24
14	2032	0	0	0	3.22	33.70	28.52	13.88	8.46	7.25	10.06	0.36	0	8.85
15	2033	0	0	0	1.19	33.37	29.14	10.52	9.79	6.99	10.60	0.36	0	8.56
16	2034	0	0	0.02	1.28	32.82	29.54	9.11	7.58	7.19	10.71	0.45	0	8.28
17	2035	0	0	0	1.37	33.83	29.46	10.57	9.84	7.23	11.45	1.80	0	8.86
18	2036	0	0	0	1.46	39.76	29.52	10.59	9.85	7.44	10.14	0.27	0	9.15
19	2037	0	0	0	1.59	35.94	27.48	14.03	10.46	7.50	12.14	0.59	0	9.22
20	2038	0	0	0	1.65	32.49	29.64	10.64	9.89	6.89	11.08	0.79	0	8.65
21	2039	0	0	0	1.74	39.76	29.92	14.09	9.92	7.73	11.54	0.82	0	9.70
22	2040	0	0	0	1.24	39.76	26.22	14.12	10.53	7.65	11.56	0.86	0	9.41

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-34. Simulated Baseline 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	3.52	31.67	4.66	3.52	4.72	0.35	0	0	4.01
1	2019	0	0	0	0	3.54	31.66	4.66	3.52	4.73	0.35	0	0	4.02
2	2020	0	0	0	0	3.60	31.65	4.67	3.53	4.73	0.35	0	0	4.02
3	2021	0	0	0	0	3.70	31.65	4.68	3.54	4.74	0.35	0	0	4.03
4	2022	0	0	0	0	3.80	31.65	4.69	3.55	4.76	0.35	0	0	4.04
5	2023	0	0	0	0	3.90	31.64	4.70	3.56	4.76	0.35	0	0	4.05
6	2024	0	0	0	0	4.00	31.64	4.72	3.57	4.77	0.35	0	0	4.07
7	2025	0	0	0	0	4.10	31.64	4.73	3.57	4.78	0.35	0	0	4.08
8	2026	0	0	0	0	4.20	31.64	4.74	3.58	4.79	0.35	0	0	4.09
9	2027	0	0	0	0	4.30	31.64	4.75	3.59	4.80	0.35	0	0	4.10
10	2028	0	0	0	0	4.40	31.64	4.76	3.60	4.81	0.35	0	0	4.11
11	2029	0	0	0	0	4.50	31.64	4.78	3.61	4.82	0.35	0	0	4.12
12	2030	0	0	0	0	4.60	31.64	4.79	3.62	4.83	0.35	0	0	4.13
13	2031	0	0	0	0	4.70	31.64	4.80	3.63	4.85	0.35	0	0	4.14
14	2032	0	0	0	0	4.80	31.63	4.81	3.63	4.85	0.35	0	0	4.15
15	2033	0	0	0	0	4.90	31.63	4.82	3.64	4.89	0.36	0	0	4.17
16	2034	0	0	0	0	5.00	31.60	4.83	3.65	4.90	0.36	0	0	4.18
17	2035	0	0	0	0	5.10	31.60	4.84	3.66	4.91	0.36	0	0	4.19
18	2036	0	0	0	0	5.20	31.60	4.85	3.67	4.92	0.36	0	0	4.20
19	2037	0	0	0	0	5.30	31.60	4.87	3.68	4.93	0.36	0	0	4.21
20	2038	0	0	0	0	5.40	31.60	4.88	3.69	4.94	0.36	0	0	4.22
21	2039	0	0	0	0	5.50	31.60	4.89	3.70	4.95	0.36	0	0	4.23
22	2040	0	0	0	0	5.60	31.60	4.90	3.71	4.96	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-35. Simulated Baseline Flows at Koignuk River 1 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	0.31	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	1.20	1.70	0.34	0	0	0.63
2	2020	0	0	0	0	0.54	1.75	0.74	1.22	1.55	0.31	0	0	0.51
3	2021	0	0	0	0	0.54	1.64	1.19	1.39	1.73	0.27	0	0	0.56
4	2022	0	0	0	0	0.47	2.48	0.67	1.21	1.72	0.34	0	0	0.57
5	2023	0	0	0	0	0.31	1.75	1.52	1.74	1.71	0.27	0	0	0.61
6	2024	0	0	0	0	0.59	1.28	0.75	1.25	1.72	0.33	0	0	0.49
7	2025	0	0	0	0	0.73	1.77	0.95	1.75	1.70	0.27	0	0	0.60
8	2026	0	0	0	0	0.21	1.29	0.76	1.23	1.75	0.31	0	0	0.46
9	2027	0	0	0	0	0.60	1.76	0.68	1.24	1.70	0.35	0	0	0.53
10	2028	0	0	0	0	0.55	1.78	0.96	1.41	1.70	0.27	0	0	0.56
11	2029	0	0	0	0	0.68	1.30	0.87	1.42	1.76	0.29	0	0	0.53
12	2030	0	0	0	0	0.21	1.30	0.87	1.43	1.71	0.35	0	0	0.49
13	2031	0	0	0	0	0.48	1.60	0.88	1.26	1.77	0.32	0	0	0.53
14	2032	0	0	0	0	2.14	1.31	0.77	1.29	1.72	0.28	0	0	0.63
15	2033	0	0	0	0	0.56	1.44	0.98	1.44	1.73	0.28	0	0	0.54
16	2034	0	0	0	0	0.78	1.29	0.78	1.28	1.83	0.43	0	0	0.53
17	2035	0	0	0	0	0.56	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	1.32	1.75	0.32	0	0	0.68
20	2038	0	0	0	0	0.56	1.45	0.90	1.46	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	3.81	1.48	0.80	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-36. Simulated Baseline 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	0.81	36.63	36.96	15.88	12.16	7.88	10.55	0.50	0	10.18
3	2021	0	0	0	0.81	36.16	38.31	11.73	9.43	8.07	11.19	0.33	0	9.72
4	2022	0	0	0	0.39	38.42	36.54	10.17	12.22	7.91	12.74	0.87	0	10.00
5	2023	0	0	0	1.56	35.85	38.33	15.54	10.95	8.04	11.13	0.88	0	10.25
6	2024	0	0	0	0.81	38.42	36.08	11.19	12.27	7.95	11.25	0.40	0	9.93
7	2025	0	0	0	0.82	36.97	34.61	15.60	9.51	8.05	12.08	0.88	0	9.94
8	2026	0	0	0	0.82	37.93	37.79	10.26	11.01	7.98	11.76	0.40	0	9.89
9	2027	0	0	0	0.72	38.23	35.48	15.67	11.04	8.18	12.29	1.26	0	10.31
10	2028	0	0	0	1.58	39.09	34.74	11.91	12.89	7.81	11.81	0.30	0	10.08
11	2029	0	0	0	0.93	39.13	34.28	15.74	8.56	8.09	12.34	0.51	0	10.04
12	2030	0	0	0	1.04	38.53	35.18	11.97	11.10	7.70	12.88	0.51	0	9.98
13	2031	0	0	0	1.14	39.95	36.60	15.80	11.13	8.19	11.88	0.51	0	10.51
14	2032	0	0	0	3.66	38.31	32.42	15.84	9.66	8.24	11.44	0.41	0	10.07
15	2033	0	0	0	1.35	37.93	33.18	12.04	11.17	7.96	12.05	0.41	0	9.74
16	2034	0	0	0.02	1.45	37.24	33.56	10.44	8.65	8.18	12.17	0.52	0	9.41
17	2035	0	0	0	1.56	38.46	33.46	12.10	11.23	8.22	13.02	2.04	0	10.07
18	2036	0	0	0	1.66	45.21	33.53	12.12	11.24	8.45	11.53	0.30	0	10.42
19	2037	0	0	0	1.81	40.77	31.25	16.01	11.94	8.52	13.80	0.66	0	10.48
20	2038	0	0	0	1.87	36.93	33.67	12.17	11.29	7.84	12.60	0.90	0	9.84
21	2039	0	0	0	1.97	45.21	33.99	16.07	11.32	8.77	13.12	0.94	0	11.03
22	2040	0	0	0	1.41	45.21	29.81	16.11	12.01	8.69	13.14	0.98	0	10.71

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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-37. Simulated Baseline 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	5.15	46.49	7.21	5.47	6.94	0.51	0	0	5.95
1	2019	0	0	0	0	5.20	46.49	7.21	5.48	6.94	0.51	0	0	5.95
2	2020	0	0	0	0	5.28	46.45	7.22	5.48	6.95	0.51	0	0	5.96
3	2021	0	0	0	0	5.43	46.45	7.24	5.50	6.97	0.51	0	0	5.98
4	2022	0	0	0	0	5.57	46.45	7.25	5.51	6.98	0.51	0	0	5.99
5	2023	0	0	0	0	5.72	46.45	7.27	5.53	7.00	0.51	0	0	6.01
6	2024	0	0	0	0	5.87	46.45	7.29	5.54	7.01	0.51	0	0	6.03
7	2025	0	0	0	0	6.01	46.45	7.31	5.55	7.03	0.51	0	0	6.04
8	2026	0	0	0	0	6.16	46.45	7.32	5.56	7.04	0.52	0	0	6.06
9	2027	0	0	0	0	6.31	46.45	7.34	5.57	7.06	0.52	0	0	6.07
10	2028	0	0	0	0	6.45	46.45	7.36	5.59	7.07	0.52	0	0	6.09
11	2029	0	0	0	0	6.60	46.45	7.37	5.60	7.08	0.52	0	0	6.11
12	2030	0	0	0	0	6.75	46.45	7.39	5.62	7.10	0.52	0	0	6.12
13	2031	0	0	0	0	6.89	46.45	7.41	5.63	7.11	0.52	0	0	6.14
14	2032	0	0	0	0	7.04	46.45	7.42	5.64	7.13	0.52	0	0	6.16
15	2033	0	0	0	0	7.18	46.45	7.44	5.65	7.18	0.52	0	0	6.17
16	2034	0	0	0	0	7.33	46.41	7.46	5.67	7.19	0.52	0	0	6.19
17	2035	0	0	0	0	7.48	46.41	7.47	5.68	7.21	0.52	0	0	6.20
18	2036	0	0	0	0	7.62	46.41	7.49	5.69	7.22	0.53	0	0	6.22
19	2037	0	0	0	0	7.77	46.41	7.50	5.70	7.23	0.53	0	0	6.24
20	2038	0	0	0	0	7.92	46.41	7.52	5.72	7.25	0.53	0	0	6.25
21	2039	0	0	0	0	8.06	46.41	7.54	5.73	7.26	0.53	0	0	6.27
22	2040	0	0	0	0	8.21	46.41	7.56	5.74	7.28	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-38. Simulated Baseline Flows at Koignuk River 2 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	0.46	2.64	1.41	2.71	2.52	0.46	0	0	0.85
1	2019	0	0	0	0	0.63	3.71	2.35	2.24	2.63	0.50	0	0	1.01
2	2020	0	0	0	0	0.80	2.65	1.41	2.22	2.31	0.45	0	0	0.82
3	2021	0	0	0	0	0.80	2.55	2.06	2.30	2.72	0.41	0	0	0.91
4	2022	0	0	0	0	0.69	3.73	1.38	2.26	2.56	0.50	0	0	0.93
5	2023	0	0	0	0	0.45	2.66	2.54	2.73	2.56	0.41	0	0	0.95
6	2024	0	0	0	0	0.86	2.03	1.43	2.25	2.67	0.48	0	0	0.81
7	2025	0	0	0	0	1.07	2.68	1.78	2.75	2.60	0.41	0	0	0.94
8	2026	0	0	0	0	0.31	2.04	1.43	2.29	2.68	0.47	0	0	0.77
9	2027	0	0	0	0	0.88	2.68	1.40	2.30	2.58	0.51	0	0	0.86
10	2028	0	0	0	0	0.81	2.70	1.80	2.34	2.54	0.41	0	0	0.89
11	2029	0	0	0	0	1.00	2.06	1.62	2.35	2.77	0.44	0	0	0.86
12	2030	0	0	0	0	0.32	2.06	1.64	2.35	2.61	0.51	0	0	0.79
13	2031	0	0	0	0	0.70	2.47	1.65	2.33	2.62	0.47	0	0	0.86
14	2032	0	0	0	0	3.14	2.07	1.46	2.31	2.56	0.42	0	0	1.00
15	2033	0	0	0	0	0.82	2.24	1.82	2.37	2.65	0.42	0	0	0.86
16	2034	0	0	0	0	1.15	2.03	1.47	2.35	2.72	0.64	0	0	0.87
17	2035	0	0	0	0	0.82	2.25	1.67	2.36	2.62	0.48	0	0	0.85
18	2036	0	0	0	0	0.83	2.09	2.45	2.82	2.82	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	2.66	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	5.59	2.30	1.49	2.41	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 V5-1M. Simulated Baseline Flows at Assessment Nodes under the Average, 1-in-20-Year Dry, and 1-in-20-Year Wet Conditions

Table M-39. Simulated Baseline 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	1.19	62.54	54.21	17.45	16.11	11.32	17.05	0.73	0	15.15
1	2019	0	0	0	2.28	47.75	57.64	22.87	16.11	11.58	17.06	1.28	0	14.80
2	2020	0	0	0	1.19	53.84	54.24	23.59	18.06	11.58	15.51	0.73	0	15.00
3	2021	0	0	0	1.19	53.13	56.17	17.52	14.03	11.84	16.45	0.48	0	14.32
4	2022	0	0	0	0.57	56.49	53.59	15.25	18.14	11.62	18.73	1.28	0	14.74
5	2023	0	0	0	2.30	52.64	56.21	23.05	16.24	11.78	16.34	1.29	0	15.08
6	2024	0	0	0	1.20	56.45	52.97	16.76	18.21	11.67	16.55	0.59	0	14.63
7	2025	0	0	0	1.20	54.32	50.81	23.15	14.15	11.82	17.76	1.29	0	14.64
8	2026	0	0	0	1.20	55.70	55.59	15.38	16.33	11.72	17.30	0.59	0	14.57
9	2027	0	0	0	1.06	56.15	52.08	23.25	16.38	11.99	18.08	1.85	0	15.18
10	2028	0	0	0	2.32	57.39	51.00	17.79	19.24	11.45	17.37	0.44	0	14.85
11	2029	0	0	0	1.36	57.61	50.35	23.35	12.70	11.88	18.15	0.75	0	14.78
12	2030	0	0	0	1.52	56.64	51.81	17.87	16.47	11.34	18.94	0.75	0	14.71
13	2031	0	0	0	1.67	58.73	53.70	23.45	16.50	12.02	17.48	0.75	0	15.47
14	2032	0	0	0	5.35	56.30	47.65	23.50	14.36	12.09	16.82	0.60	0	14.83
15	2033	0	0	0	1.97	55.82	48.92	17.98	16.57	11.69	17.72	0.60	0	14.37
16	2034	0	0	0.03	2.13	54.77	49.31	15.65	12.84	12.01	17.90	0.76	0	13.87
17	2035	0	0	0	2.28	56.53	49.11	18.05	16.66	12.06	19.13	3.00	0	14.84
18	2036	0	0	0	2.43	66.49	49.23	18.09	16.67	12.40	16.96	0.45	0	15.34
19	2037	0	0	0	2.66	59.70	45.91	23.74	17.71	12.49	20.30	0.98	0	15.41
20	2038	0	0	0	2.74	54.29	49.42	18.17	16.75	11.53	18.53	1.33	0	14.49
21	2039	0	0	0	2.89	66.49	49.88	23.84	16.78	12.86	19.29	1.38	0	16.24
22	2040	0	0	0	2.07	66.49	43.83	23.89	17.82	12.75	19.32	1.43	0	15.77

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.