

Appendix V5-10

Simulated Baseline Lake Volumes at Assessment Nodes
under the Average Conditions



Appendix V5-10. Simulated Baseline Lake Volumes at Assessment Nodes under the Average Conditions

Table O-1. Simulated Baseline Lake Volume at Wolverine Lake under Average Runoff Conditions (Mm³)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	2018	1.881	1.881	1.881	1.881	1.886	1.926	1.909	1.867	1.866	1.881	1.881	1.881
1	2019	1.881	1.881	1.881	1.881	1.886	1.926	1.909	1.867	1.866	1.881	1.881	1.881
2	2020	1.881	1.881	1.881	1.881	1.886	1.927	1.909	1.867	1.866	1.881	1.882	1.882
3	2021	1.882	1.882	1.882	1.882	1.886	1.927	1.909	1.867	1.867	1.881	1.882	1.882
4	2022	1.882	1.882	1.882	1.882	1.887	1.927	1.909	1.867	1.867	1.882	1.882	1.882
5	2023	1.882	1.882	1.882	1.882	1.887	1.927	1.909	1.867	1.867	1.882	1.882	1.882
6	2024	1.882	1.882	1.882	1.882	1.887	1.927	1.909	1.867	1.867	1.882	1.883	1.883
7	2025	1.883	1.883	1.883	1.883	1.888	1.927	1.909	1.868	1.868	1.882	1.883	1.883
8	2026	1.883	1.883	1.883	1.883	1.888	1.927	1.909	1.868	1.868	1.883	1.883	1.883
9	2027	1.883	1.883	1.883	1.883	1.889	1.927	1.909	1.868	1.868	1.883	1.883	1.883
10	2028	1.883	1.883	1.883	1.883	1.889	1.927	1.909	1.868	1.868	1.883	1.884	1.884
11	2029	1.884	1.884	1.884	1.884	1.889	1.927	1.909	1.868	1.868	1.883	1.884	1.884
12	2030	1.884	1.884	1.884	1.884	1.890	1.927	1.909	1.868	1.869	1.884	1.884	1.884
13	2031	1.884	1.884	1.884	1.884	1.890	1.928	1.909	1.868	1.869	1.884	1.884	1.884
14	2032	1.884	1.884	1.884	1.884	1.891	1.928	1.909	1.868	1.869	1.884	1.885	1.885
15	2033	1.885	1.885	1.885	1.885	1.891	1.928	1.909	1.869	1.869	1.885	1.885	1.885
16	2034	1.885	1.885	1.885	1.885	1.892	1.928	1.909	1.869	1.869	1.885	1.885	1.885
17	2035	1.885	1.885	1.885	1.885	1.892	1.928	1.909	1.869	1.870	1.885	1.886	1.886
18	2036	1.886	1.886	1.886	1.886	1.892	1.928	1.909	1.869	1.870	1.885	1.886	1.886
19	2037	1.886	1.886	1.886	1.886	1.893	1.928	1.909	1.869	1.870	1.886	1.886	1.886
20	2038	1.886	1.886	1.886	1.886	1.893	1.928	1.909	1.869	1.870	1.886	1.887	1.887
21	2039	1.887	1.887	1.887	1.887	1.893	1.928	1.910	1.869	1.871	1.886	1.887	1.887
22	2040	1.887	1.887	1.887	1.887	1.894	1.928	1.910	1.869	1.871	1.886	1.887	1.887

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 V5-10. Simulated Baseline Lake Volumes at Assessment Nodes under the Average Conditions

Table O-2. Simulated Baseline Lake Volume at Patch Lake under Average Runoff Conditions (Mm³)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	2018	21.39	21.39	21.39	21.39	21.43	22.59	22.23	21.59	21.39	21.38	21.39	21.39
1	2019	21.39	21.39	21.39	21.39	21.42	22.59	22.23	21.59	21.39	21.38	21.39	21.39
2	2020	21.39	21.39	21.39	21.39	21.42	22.59	22.23	21.59	21.39	21.38	21.39	21.39
3	2021	21.39	21.39	21.39	21.39	21.43	22.60	22.23	21.59	21.39	21.39	21.39	21.39
4	2022	21.39	21.39	21.39	21.39	21.43	22.61	22.23	21.60	21.39	21.39	21.39	21.39
5	2023	21.39	21.39	21.39	21.39	21.43	22.62	22.24	21.60	21.39	21.39	21.40	21.40
6	2024	21.40	21.40	21.40	21.40	21.44	22.63	22.24	21.60	21.40	21.39	21.40	21.40
7	2025	21.40	21.40	21.40	21.40	21.44	22.64	22.24	21.60	21.40	21.39	21.40	21.40
8	2026	21.40	21.40	21.40	21.40	21.44	22.65	22.24	21.60	21.40	21.40	21.40	21.40
9	2027	21.40	21.40	21.40	21.40	21.44	22.66	22.25	21.61	21.40	21.40	21.40	21.40
10	2028	21.40	21.40	21.40	21.40	21.45	22.67	22.25	21.61	21.40	21.40	21.41	21.41
11	2029	21.41	21.41	21.41	21.41	21.45	22.68	22.25	21.61	21.41	21.40	21.41	21.41
12	2030	21.41	21.41	21.41	21.41	21.45	22.68	22.25	21.61	21.41	21.40	21.41	21.41
13	2031	21.41	21.41	21.41	21.41	21.46	22.69	22.25	21.61	21.41	21.41	21.41	21.41
14	2032	21.41	21.41	21.41	21.41	21.46	22.70	22.26	21.62	21.41	21.41	21.41	21.41
15	2033	21.41	21.41	21.41	21.41	21.46	22.71	22.26	21.62	21.42	21.41	21.42	21.42
16	2034	21.42	21.42	21.42	21.42	21.47	22.72	22.26	21.62	21.42	21.41	21.42	21.42
17	2035	21.42	21.42	21.42	21.42	21.47	22.73	22.26	21.62	21.42	21.42	21.42	21.42
18	2036	21.42	21.42	21.42	21.42	21.47	22.73	22.27	21.63	21.42	21.42	21.42	21.42
19	2037	21.42	21.42	21.42	21.42	21.48	22.74	22.27	21.63	21.42	21.42	21.43	21.43
20	2038	21.43	21.43	21.43	21.43	21.48	22.75	22.27	21.63	21.43	21.42	21.43	21.43
21	2039	21.43	21.43	21.43	21.43	21.48	22.76	22.28	21.63	21.43	21.42	21.43	21.43
22	2040	21.43	21.43	21.43	21.43	21.49	22.77	22.28	21.63	21.43	21.43	21.43	21.43

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 V5-10. Simulated Baseline Lake Volumes at Assessment Nodes under the Average Conditions

Table O-3. Simulated Baseline Lake Volume at Doris Lake under Average Runoff Conditions (Mm ³)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	2018	26.77	26.77	26.77	26.77	26.83	28.14	27.45	27.05	27.07	26.91	26.78	26.77
1	2019	26.77	26.77	26.77	26.77	26.83	28.14	27.45	27.05	27.07	26.91	26.78	26.77
2	2020	26.77	26.77	26.77	26.77	26.83	28.14	27.45	27.05	27.07	26.91	26.78	26.77
3	2021	26.77	26.77	26.77	26.77	26.84	28.14	27.45	27.05	27.07	26.91	26.78	26.77
4	2022	26.77	26.77	26.77	26.77	26.84	28.15	27.45	27.05	27.08	26.91	26.78	26.77
5	2023	26.77	26.77	26.77	26.77	26.84	28.15	27.45	27.05	27.08	26.91	26.78	26.77
6	2024	26.77	26.77	26.77	26.77	26.84	28.15	27.45	27.05	27.08	26.91	26.78	26.77
7	2025	26.77	26.77	26.77	26.77	26.84	28.16	27.45	27.05	27.08	26.91	26.78	26.77
8	2026	26.77	26.77	26.77	26.77	26.85	28.16	27.46	27.05	27.08	26.91	26.78	26.77
9	2027	26.77	26.77	26.77	26.77	26.85	28.16	27.46	27.06	27.08	26.91	26.78	26.77
10	2028	26.77	26.77	26.77	26.77	26.85	28.16	27.46	27.06	27.08	26.91	26.78	26.77
11	2029	26.77	26.77	26.77	26.77	26.85	28.16	27.46	27.06	27.08	26.91	26.78	26.77
12	2030	26.77	26.77	26.77	26.77	26.85	28.17	27.46	27.06	27.08	26.91	26.78	26.77
13	2031	26.77	26.77	26.77	26.77	26.85	28.17	27.46	27.06	27.08	26.91	26.78	26.77
14	2032	26.77	26.77	26.77	26.77	26.86	28.17	27.46	27.06	27.09	26.91	26.78	26.77
15	2033	26.77	26.77	26.77	26.77	26.86	28.18	27.46	27.06	27.09	26.91	26.78	26.77
16	2034	26.77	26.77	26.77	26.77	26.86	28.18	27.46	27.06	27.09	26.91	26.78	26.77
17	2035	26.77	26.77	26.77	26.77	26.86	28.18	27.46	27.06	27.09	26.91	26.78	26.77
18	2036	26.77	26.77	26.77	26.77	26.86	28.19	27.46	27.07	27.09	26.91	26.78	26.77
19	2037	26.77	26.77	26.77	26.77	26.87	28.19	27.46	27.07	27.09	26.91	26.78	26.77
20	2038	26.77	26.77	26.77	26.77	26.87	28.19	27.47	27.07	27.09	26.91	26.78	26.77
21	2039	26.77	26.77	26.77	26.77	26.87	28.20	27.47	27.07	27.09	26.91	26.78	26.77
22	2040	26.77	26.77	26.77	26.77	26.87	28.20	27.47	27.07	27.09	26.91	26.78	26.77

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.

Appendix V5-10. Simulated Baseline Lake Volumes at Assessment Nodes under the Average Conditions

Table O-4. Simulated Baseline Lake Volume at Windy Lake under Average Runoff Conditions (Mm³)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	2018	55.02	55.02	55.02	55.02	55.04	55.70	55.45	55.05	54.97	55.02	55.02	55.02
1	2019	55.02	55.02	55.02	55.02	55.04	55.70	55.45	55.05	54.97	55.02	55.02	55.02
2	2020	55.02	55.02	55.02	55.02	55.04	55.70	55.45	55.05	54.97	55.02	55.02	55.02
3	2021	55.02	55.02	55.02	55.02	55.04	55.71	55.45	55.05	54.98	55.02	55.02	55.02
4	2022	55.02	55.02	55.02	55.02	55.04	55.71	55.45	55.05	54.98	55.02	55.02	55.02
5	2023	55.02	55.02	55.02	55.02	55.05	55.72	55.45	55.05	54.98	55.02	55.02	55.02
6	2024	55.02	55.02	55.02	55.02	55.05	55.72	55.45	55.05	54.98	55.02	55.02	55.02
7	2025	55.02	55.02	55.02	55.02	55.05	55.73	55.45	55.05	54.98	55.02	55.03	55.03
8	2026	55.03	55.03	55.03	55.03	55.05	55.73	55.45	55.06	54.98	55.02	55.03	55.03
9	2027	55.03	55.03	55.03	55.03	55.05	55.73	55.45	55.06	54.98	55.03	55.03	55.03
10	2028	55.03	55.03	55.03	55.03	55.06	55.74	55.46	55.06	54.98	55.03	55.03	55.03
11	2029	55.03	55.03	55.03	55.03	55.06	55.74	55.46	55.06	54.98	55.03	55.03	55.03
12	2030	55.03	55.03	55.03	55.03	55.06	55.75	55.46	55.06	54.99	55.03	55.03	55.03
13	2031	55.03	55.03	55.03	55.03	55.06	55.75	55.46	55.06	54.99	55.03	55.03	55.03
14	2032	55.03	55.03	55.03	55.03	55.06	55.76	55.46	55.06	54.99	55.03	55.03	55.03
15	2033	55.03	55.03	55.03	55.03	55.06	55.76	55.46	55.06	54.99	55.03	55.04	55.04
16	2034	55.04	55.04	55.04	55.04	55.07	55.76	55.46	55.06	54.99	55.03	55.04	55.04
17	2035	55.04	55.04	55.04	55.04	55.07	55.77	55.46	55.06	54.99	55.04	55.04	55.04
18	2036	55.04	55.04	55.04	55.04	55.07	55.77	55.46	55.07	54.99	55.04	55.04	55.04
19	2037	55.04	55.04	55.04	55.04	55.07	55.77	55.46	55.07	54.99	55.04	55.04	55.04
20	2038	55.04	55.04	55.04	55.04	55.07	55.78	55.46	55.07	54.99	55.04	55.04	55.04
21	2039	55.04	55.04	55.04	55.04	55.08	55.78	55.47	55.07	55.00	55.04	55.04	55.04
22	2040	55.04	55.04	55.04	55.04	55.08	55.79	55.47	55.07	55.00	55.04	55.04	55.04

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 V5-10. Simulated Baseline Lake Volumes at Assessment Nodes under the Average Conditions

Table O-5. Simulated Baseline Lake Volume at Stickleback Lake under Average Runoff Conditions (Mm³)

Project Year	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	2018	2.242	2.242	2.242	2.242	2.246	2.300	2.281	2.233	2.228	2.241	2.242	2.242
1	2019	2.242	2.242	2.242	2.242	2.246	2.300	2.281	2.233	2.228	2.241	2.242	2.242
2	2020	2.242	2.242	2.242	2.242	2.246	2.300	2.281	2.233	2.229	2.242	2.242	2.242
3	2021	2.242	2.242	2.242	2.242	2.246	2.300	2.281	2.234	2.229	2.242	2.242	2.242
4	2022	2.242	2.242	2.242	2.242	2.247	2.300	2.281	2.234	2.229	2.242	2.243	2.243
5	2023	2.243	2.243	2.243	2.243	2.247	2.300	2.282	2.234	2.229	2.242	2.243	2.243
6	2024	2.243	2.243	2.243	2.243	2.248	2.300	2.282	2.234	2.229	2.243	2.243	2.243
7	2025	2.243	2.243	2.243	2.243	2.248	2.301	2.282	2.234	2.230	2.243	2.243	2.243
8	2026	2.243	2.243	2.243	2.243	2.248	2.301	2.282	2.234	2.230	2.243	2.244	2.244
9	2027	2.244	2.244	2.244	2.244	2.249	2.301	2.282	2.234	2.230	2.243	2.244	2.244
10	2028	2.244	2.244	2.244	2.244	2.249	2.301	2.282	2.234	2.230	2.244	2.244	2.244
11	2029	2.244	2.244	2.244	2.244	2.249	2.301	2.282	2.235	2.230	2.244	2.244	2.244
12	2030	2.244	2.244	2.244	2.244	2.250	2.301	2.282	2.235	2.231	2.244	2.245	2.245
13	2031	2.245	2.245	2.245	2.245	2.250	2.301	2.282	2.235	2.231	2.244	2.245	2.245
14	2032	2.245	2.245	2.245	2.245	2.250	2.302	2.282	2.235	2.231	2.245	2.245	2.245
15	2033	2.245	2.245	2.245	2.245	2.251	2.302	2.282	2.235	2.231	2.245	2.246	2.246
16	2034	2.246	2.246	2.246	2.246	2.251	2.302	2.282	2.235	2.231	2.245	2.246	2.246
17	2035	2.246	2.246	2.246	2.246	2.252	2.302	2.282	2.235	2.232	2.245	2.246	2.246
18	2036	2.246	2.246	2.246	2.246	2.252	2.302	2.282	2.235	2.232	2.246	2.246	2.246
19	2037	2.246	2.246	2.246	2.246	2.252	2.302	2.282	2.235	2.232	2.246	2.247	2.247
20	2038	2.247	2.247	2.247	2.247	2.253	2.302	2.282	2.236	2.232	2.246	2.247	2.247
21	2039	2.247	2.247	2.247	2.247	2.253	2.302	2.282	2.236	2.232	2.246	2.247	2.247
22	2040	2.247	2.247	2.247	2.247	2.254	2.302	2.282	2.236	2.233	2.247	2.247	2.247

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.