

Lake Set Data (updated version of Appendix A of Technical Reference Document) to Support LWB Winter Water Source Method (2023)

A1. DFO Lakes.

A2. Golder Back River Lakes

A3. Tibbitt-Contwoyto Ice Road Lakes

A4. Kennady Project Lakes

A5. Golder Nighthawk Lakes

A6. Wilfred Laurier University Inuvik to Tuktoyaktuk Highway Lakes

A1. DFO Lakes.

Lake Name	Average Depth m	Maximum Depth m	Volume m3	Surface Area m2	10 cm Water Taking m3	% of Total Volume
1	1.4	3.9	1,571,297	1,044,082	104,408	7%
3	1.7	3.1	938,582	531,576	53,158	6%
5	1.9	3.6	2,383,667	1,192,044	119,204	5%
6	1.5	3.2	845,098	540,855	54,086	6%
7	1.7	3.7	263,238	148,653	14,865	6%
8	1.9	3.4	567,508	284,661	28,466	5%
9	1.6	3.2	612,159	360,387	36,039	6%
10	2.3	6.6	3,289,435	1,348,009	134,801	4%
11	2.4	4.4	1,289,354	525,228	52,523	4%
12	1.9	3.1	2,246,198	1,112,654	111,265	5%
13	1.7	3.5	3,100,134	1,676,252	167,625	5%
14	2	3.5	6,360,440	2,949,923	294,992	5%
15	1.9	3	1,763,876	913,892	91,389	5%
16	2	3.2	2,188,830	1,076,391	107,639	5%
17	1.5	2.5	6,765,805	3,765,805	376,581	6%
18	2.5	3.3	3,770,461	1,475,925	147,593	4%
19	5.3	16	43,868,500	26,326,225	2,632,623	6%
20	1.9	5.9	10,589,209	9,793,064	979,306	9%
21	0.8	7	14,520,335	31,864,335	3,186,434	22%
22	1.4	7.2	9,856,299	10,383,256	1,038,326	11%
23	1.5	3.5	5,426,767	5,769,203	576,920	11%
24	3.3	10	8,061,505	4,101,841	410,184	5%
25	1.54	2.9	13,008,359	7,724,101	772,410	6%
26	1.4	2.2	3,854,968	2,753,584	275,358	7%
27	1.8	3.1	1,112,403	591,192	59,119	5%
28	1	1.9	376,606	324,674	32,467	9%
29	1.2	2.1	469,133	374,200	37,420	8%
31	1	3.1	128,732	125,341	12,534	10%
36	2.2	9.4	993,729	417,487	41,749	4%
38	0.5	2.5	230,302	418,355	41,836	18%
44	1.4	2.6	613,239	441,881	44,188	7%
46	4.5	11.9	805,121	172,543	17,254	2%
47	2.4	12.9	3,452,380	1,343,999	134,400	4%
48	5	13.9	5,380,515	1,005,366	100,537	2%
49	2.8	9.6	814,227	283,121	28,312	3%
52	3.3	9.5	910,830	264,305	26,431	3%
54	2.7	9	402,504	142,544	14,254	4%

A2. Golder Back River Lakes

Waterbody ID	North. UTM	East. UTM	Surface Area (SA) (m ²)	Volume (V) (m ³)	V:SA ratio (average depth) (m)	Under Ice Volume Below 2 m Depth (m ³)	DFO Threshold = 10% of Under Ice Volume	Ratio - total / Under Ice	Average below ice depth	10 cm Water Taking m3	% of Total Volume	% of Under Ice Volume	10 cm Meets DFO Threshold?
Lake 1-0	7272263	428691	348,021	951,009	2.7	396,025	39,603	42%	1.14	34,802	4%	9%	Yes
Lake 2-0	7273318	427649	598,077	1,487,839	2.5	535,068	53,507	36%	0.89	59,808	4%	11%	No
Lake 3-0	7273459	425284	557,865	1,738,708	3.1	793,748	79,375	46%	1.42	55,787	3%	7%	Yes
Lake 4-0	7275521	422778	349,596	705,486	2	193,786	19,379	27%	0.55	34,960	5%	18%	No
Lake 8-0	7276631	418218	765,711	2,427,790	3.2	1,137,977	113,798	47%	1.49	76,571	3%	7%	Yes
Lake 7-0	7277136	419314	2,211,876	8,325,456	3.8	4,336,453	433,645	52%	1.96	221,188	3%	5%	Yes
Lake 6-0	7277346	421197	224,514	614,579	2.7	253,622	25,362	41%	1.13	22,451	4%	9%	Yes
Lake 9-0	7277741	416761	620,172	1,581,371	2.5	537,030	53,703	34%	0.87	62,017	4%	12%	No
Lake 11-0	7280643	411983	885,771	2,406,329	2.7	981,876	98,188	41%	1.11	88,577	4%	9%	Yes
Lake 13-0a	7284074	407857	290,376	597,123	2.1	151,117	15,112	25%	0.52	29,038	5%	19%	No
Lake 14-0a	7287885	404204	3,942,630	10,415,812	2.6	3,597,800	359,780	35%	0.91	394,263	4%	11%	Yes
Lake 14-1	7293431	401036	2,221,497	4,779,159	2.2	881,912	88,191	18%	0.40	222,150	5%	25%	No
Lake 15-0	7298909	399919	1,441,269	5,027,754	3.5	2,373,270	237,327	47%	1.65	144,127	3%	6%	Yes
Lake 16-0	7303281	399696	2,068,272	12,016,309	5.8	8,139,725	813,973	68%	3.94	206,827	2%	3%	Yes
Lake 17-0	7305916	402441	5,913,261	61,932,318	10.5	50,372,624	5,037,262	81%	8.52	591,326	1%	1%	Yes
Lake 16-1	7306279	398021	319,815	812,512	2.5	260,311	26,031	32%	0.81	31,982	4%	12%	No
Lake LA17-0	7308172	395986	3,193,056	18,907,975	5.9	12,865,851	1,286,585	68%	4.03	319,306	2%	2%	Yes
Lake 18-0	7308843	401524	635,085	2,886,128	4.5	1,690,494	169,049	59%	2.66	63,509	2%	4%	Yes
Lake 984	7309759	402495	153,108	296,424	1.9	71,739	7,174	24%	0.47	15,311	5%	21%	No
Lake 18-1	7310007	401912	161,253	426,414	2.6	150,589	15,059	35%	0.93	16,125	4%	11%	Yes
Lake LA18-0a	7311590	396960	714,708	4,368,027	6.1	3,006,955	300,696	69%	4.21	71,471	2%	2%	Yes
Lake 19-0	7311911	401691	160,065	360,221	2.3	98,274	9,827	27%	0.61	16,007	4%	16%	No
Lake 985	7312109	395983	40,914	106,234	2.6	35,130	3,513	33%	0.86	4,091	4%	12%	No
Lake 986	7312574	392342	16,299	37,926	2.3	12,753	1,275	34%	0.78	1,630	4%	13%	No
Lake 989	7313114	391719	29,322	62,690	2.1	17,580	1,758	28%	0.60	2,932	5%	17%	No
Lake 987	7313141	398133	206,199	760,584	3.7	393,753	39,375	52%	1.91	20,620	3%	5%	Yes
Lake 991	7313599	391191	36,702	76,595	2.1	21,030	2,103	27%	0.57	3,670	5%	17%	No
Lake LA20-0	7313887	399363	324,144	940,089	2.9	389,431	38,943	41%	1.20	32,414	3%	8%	No
Lake 990	7314076	388751	761,706	3,456,788	4.5	2,130,011	213,001	62%	2.80	76,171	2%	4%	Yes
Lake 20-0	7314226	404075	5,757,903	24,053,493	4.2	14,139,389	1,413,939	59%	2.46	575,790	2%	4%	Yes
Lake 992	7314853	389975	893,646	3,525,249	3.9	1,938,558	193,856	55%	2.17	89,365	3%	5%	Yes
Lake LA21-0	7315592	399777	256,878	761,896	3	309,761	30,976	41%	1.21	25,688	3%	8%	Yes
Lake LA23-0	7315882	401330	265,968	1,013,844	3.8	524,720	52,472	52%	1.97	26,597	3%	5%	Yes
Lake LA21-1	7316914	399454	204,606	406,055	2	129,313	12,931	32%	0.63	20,461	5%	16%	No
Lake LA22-0	7317386	399995	2,393,802	5,635,137	2.4	1,697,105	169,711	30%	0.71	239,380	4%	14%	No
Lake 23-0	7318800	403392	498,888	1,218,007	2.4	396,365	39,637	33%	0.79	49,889	4%	13%	No
Lake 24-0	7321054	402094	876,762	2,011,377	2.3	599,951	59,995	30%	0.68	87,676	4%	15%	No
Lake 994	7323246	400275	136,197	276,346	2	61,034	6,103	22%	0.45	13,620	5%	22%	No
Lake 995	7325353	400617	103,959	233,491	2.2	75,975	7,598	33%	0.73	10,396	4%	14%	No
Lake 25-0	7326281	400452	483,390	1,713,886	3.5	868,241	86,824	51%	1.80	48,339	3%	6%	Yes
Lake 996	7327338	401382	26,253	43,840	1.7	6,832	683	16%	0.26	2,625	6%	38%	No
Lake 26-0	7328257	401915	59,454	181,351	3.1	97,110	9,711	54%	1.63	5,945	3%	6%	Yes
Lake 997	7329276	401911	17,280	41,763	2.4	15,122	1,512	36%	0.88	1,728	4%	11%	No
Lake 28-0	7332392	403397	265,680	653,963	2.5	239,515	23,952	37%	0.90	26,568	4%	11%	No
Lake 29-0	7334245	403433	1,174,887	5,393,491	4.6	3,246,825	324,683	60%	2.76	117,489	2%	4%	Yes
Lake 998	7336793	403071	46,809	125,763	2.7	53,343	5,334	42%	1.14	4,681	4%	9%	Yes
Lake 30-0	7340003	404631	927,360	1,683,771	1.8	566,741	56,674	34%	0.61	92,736	6%	16%	No
Lake 30-4	7343073	403851	48,825	101,926	2.1	28,590	2,859	28%	0.59	4,883	5%	17%	No
Lake 31-0	7351852	400718	82,758,231	779,474,304	33.6	2,616,978,541	261,697,854	94%	31.62	8,275,823	0%	0%	Yes
Lake 999	7364930	391663	1,645,029	13,130,162	8	10,124,845	1,012,485	77%	6.15	164,503	1%	2%	Yes
Lake 31-1	7367584	391134	34,803	70,470	2	16,035	1,604	23%	0.46	3,480	5%	22%	No
Lake 31-2	7367973	390840	55,377	137,368	2.5	52,909	5,291	39%	0.96	5,538	4%	10%	Yes
Lake 32-0	7373635	387860	3,747,375	21,976,529	5.9	14,966,675	1,496,668	68%	3.99	374,738	2%	3%	Yes
Lake 33-0	7378706	385690	124,371	270,935	2.2	86,426	8,643	32%	0.69	12,437	5%	14%	No
Lake 34-0	7380542	390639	157,216,248	320,662,011	21.1	3,010,754,419	301,075,442	91%	19.15	15,721,625	0%	1%	Yes

A3. Tibbitt to Contwoyto Ice Road Lakes

Lake Name	Page of PDF	Latitude	Longitude	Surface Area (m2)	Volume (m3)		DFO Threshold = 10% of Under Ice Volume	Comment	Average Depth (Volume/Surface Area)		10 cm Water Taking m3	% of Total Volume	% of Under Ice Volume	10 cm Meets DFO Threshold?
					Total	Under Ice			Total	Under Ice				
HG-2	30	65.55	113.35	1,476,560	5,857,166	4,054,919	405,492		3.97	2.75	147,656	3%	4%	Yes
P2-1	33	62.59	113.31	600,000	1,600,000	1,050,000	105,000		2.67	1.75	60,000	4%	6%	Yes
3-1	34	62.61	113.31	57,216			-	frozen to bottom			5,722			
P-11	39	62.78	113.30	80,326	244,482	158,631	15,863		3.04	1.97	8,033	3%	5%	Yes
11-1	41	62.78	113.30	2,700			-	frozen to bottom			270			
12-2	44	62.79	113.30	75,000	145,000	73,000	7,300		1.93	0.97	7,500	5%	10%	Yes
P13	47	62.79	113.30	22,500	45,600	16,200	1,620		2.03	0.72	2,250	5%	14%	No
14-1	49	62.82	113.32	38,000			-	frozen to bottom			3,800			
P14-2	53	62.84	113.33	5,000,000	6,500,000	1,750,000	175,000		1.30	0.35	500,000	8%	29%	No
P16	56	62.87	113.34	148,000	330,000	177,000	17,700		2.23	1.20	14,800	4%	8%	Yes
20-1/Old	59	63.28	113.08	2,400			-	(assumed) frozen to bottom			240			
20-1	62	63.28	113.07	130,000	271,000	41,000	4,100		2.08	0.32	13,000	5%	32%	No
20-2	65	63.29	113.07	138,000	600,000	407,000	40,700		4.35	2.95	13,800	2%	3%	Yes
12-1	68	63.29	113.06	22,645			-	(assumed) frozen to bottom			2,265			
22-1	71	63.32	113.05	6,545			-	frozen to bottom			655			
22-2	74	63.32	113.05	43,734			-	(assumed) frozen to bottom			4,373			
23-2	76	63.34	113.04	12,500			-	(assumed) frozen to bottom			1,250			
23-3	79	63.34	113.03	52,500	92,000	40,000	4,000		1.75	0.76	5,250	6%	13%	No
23-4	82	63.35	113.02	28,200	33,200	5,600	560		1.18	0.20	2,820	8%	50%	No
25-1	85	63.36	112.99	44,200	72,500	26,200	2,620		1.64	0.59	4,420	6%	17%	No
P31	88	63.43	112.66	3,766			-	frozen to bottom			377			
P33-1	92	63.46	112.54	400,000	750,000	300,000	30,000		1.88	0.75	40,000	5%	13%	No
36-1	95	63.49	112.49	97,175			-	(assumed) frozen to bottom			9,718			
37-1	98	63.57	112.32	180,494			-	(assumed) frozen to bottom			18,049			
37-8	101	63.58	112.32	125,000	170,000	65,000	6,500		1.36	0.52	12,500	7%	19%	No
39-1	104	63.58	112.31	400,000	350,000	55,000	5,500		0.88	0.14	40,000	11%	73%	No
40-1	107	63.59	112.29	264,245			-	(assumed) frozen to bottom			26,425			
41-1	110	63.60	112.30	75,500	80,000	95,000	9,500		1.06	1.26	7,550	9%	8%	Yes
42-1	113	63.61	112.25	165,500	125,000	12,000	1,200		0.76	0.07	16,550	13%	138%	No

A4. Kennady Project Lakes

Lake	Name	Max. Depth	Ave. Depth = Volume / Area		Area		Volume		DFO Threshold = 10% of Under Ice Volume	10 cm Water Taking m3	% of Total Volume	% of Under Ice Volume	10 cm Meets DFO Threshold?
			Surface	2m	Surface	2m	Surface	2m					
Lake 1	Faraday	8.8	2.7	2.0	900,575	536,250	2,456,415	1,094,906	109,491	90,058	4%	8%	Yes
Lake 2	Kelvin	14.5	4.7	4.0	804,400	614,250	3,804,075	2,432,104	243,210	80,440	2%	3%	Yes
Lake 3	M17	4.0	1.1	0.6	25,400	4,500	27,953	2,785	278	2,540	9%	91%	No
Lake 4	M2B	0.8	0.2	Frozen to Bottom	10,300		1,780		-	1,030	58%		
Lake 5	M50	1.0	0.4	Frozen to Bottom	24,300		9,556		-	2,430	25%		
Lake 6	M12	10.8	2.8	2.4	82,000	45,600	226,841	108,800	10,880	8,200	4%	8%	Yes
Lake 7	M46	12.0	4.5	4.0	90,900	64,200	405,693	258,313	25,831	9,090	2%	4%	Yes
Lake 8	L16	2.3	0.6	0.1	52,000	1,300	29,912	116	12	5,200	17%	4501%	No
Lake 9	L1a	1.3	0.4	Frozen to Bottom	35,600		13,994		-	3,560	25%		
Lake 10	M54	1.8	0.5	Frozen to Bottom	32,800		15,152		-	3,280	22%		
Lake 11	M31	3.0	0.8	0.2	39,500	4,200	32,798	973	97	3,950	12%	406%	No
Lake 12	M3b	2.5	0.4	0.1	34,900	900	14,542	133	13	3,490	24%	2624%	No
Lake 13	M10	4.5	1.4	1.1	96,800	23,500	138,829	25,466	2,547	9,680	7%	38%	No
Lake 14	M2B	5.8	2.0	1.3	322,400	154,600	654,220	194,670	19,467	32,240	5%	17%	No
Lake 15	M1	2.0	0.8	Frozen to Bottom	105,600		83,972		-	10,560	13%		
Lake 16	L10	3.3	0.9	0.4	195,100	15,300	172,573	5,423	542	19,510	11%	360%	No
Lake 17	M11	3.8	1.5	0.8	28,800	10,900	43,440	9,048	905	2,880	7%	32%	No
Lake 18	M30	3.0	1.0	0.4	54,100	7,600	54,700	2,828	283	5,410	10%	191%	No
Lake 19	M2a	2.3	0.8	0.0	22,800	200	19,191	4	0	2,280	12%	55757%	No
Lake 20	M24	4.5	1.0	0.9	44,800	19,800	44,800	17,251	1,725	4,480	10%	26%	No
Lake 21	M32	6.0	1.0	1.3	164,000	56,000	164,000	75,162	7,516	16,400	10%	22%	No
Lake 22	M33	2.3	0.8	1.0	72,300	69	56,365	69	7	7,230	13%	10415%	No
Lake 23	M28	8.0	1.1	2.0	228,400	24,800	250,133	48,525	4,853	22,840	9%	47%	No
Lake 24	M35	1.8	0.5	Frozen to Bottom	3,725		2,041		-	373	18%		
Lake 25	M36	2.3	0.7	0.0	113,425	125	78,513	3	0	11,343	14%	429338%	No
Lake 26	M43	1.8	0.6	Frozen to Bottom	14,775		9,161		-	1,478	16%		
Lake 27	M44	1.5	0.7	Frozen to Bottom	22,400		15,710		-	2,240	14%		
Lake 28	M34	5.3	1.7	1.5	30,038	11,081	51,796	16,374	1,637	3,004	6%	18%	No

A5. Golder Nighthawk Lakes

Lake Name	Average Depth m	Maximum Depth m	Volume (m3) Total	Surface Area m2	10 cm Water Taking m3	% of Total Volume
1	1.40	3.9	1571297	1044082	104408	6.6%
3	1.70	3.1	938582	531576	53158	5.7%
5	1.90	3.6	2383667	1192044	119204	5.0%
6	1.50	3.2	845098	540855	54086	6.4%
7	1.70	3.7	263,238	148,653	14865	5.6%
8	1.90	3.4	567,508	284,661	28466	5.0%
9	1.60	3.2	612,159	360,387	36039	5.9%
10	2.30	6.6	3,289,435	1,348,009	134801	4.1%
11	2.40	4.4	1,289,354	525,228	52523	4.1%
12	1.90	3.1	2,246,198	1,112,654	111265	5.0%
13	1.70	3.5	3,100,134	1,676,252	167625	5.4%
14	2.00	3.5	6,360,440	2,949,923	294992	4.6%
15	1.90	3	1,763,876	913,892	91389	5.2%
16	2.00	3.2	2,188,830	1,076,391	107639	4.9%
17	1.50	2.5	6,765,805	3,765,805	376581	5.6%
18	2.50	3.3	3,770,461	1,475,925	147593	3.9%
19	5.30	16	43,868,500	26,326,225	2632623	6.0%
20	1.90	5.9	10,589,209	9,793,064	979306	9.2%
21	0.80	7	14,520,335	31,864,335	3186434	21.9%
22	1.40	7.2	9,856,299	10,383,256	1038326	10.5%
23	1.50	3.5	5,426,767	5,769,203	576920	10.6%
24	3.30	10	8,061,505	4,101,841	410184	5.1%
25	1.54	2.9	13,008,359	7,724,101	772410	5.9%
26	1.40	2.2	3,854,968	2,753,584	275358	7.1%
27	1.80	3.1	1,112,403	591,192	59119	5.3%
28	1.00	1.9	376,606	324,674	32467	8.6%
29	1.20	2.1	469,133	374,200	37420	8.0%
31	1.00	3.1	128,732	125,341	12534	9.7%
36	2.20	9.4	993,729	417,487	41749	4.2%
38	0.50	2.5	230,302	418,355	41836	18.2%
44	1.40	2.6	613,239	441,881	44188	7.2%
46	4.50	11.9	805,121	172,543	17254	2.1%
47	2.40	12.9	3,452,380	1,343,999	134400	3.9%
48	5.00	13.9	5,380,515	1,005,366	100537	1.9%
49	2.80	9.6	814,227	283,121	28312	3.5%
52	3.3	9.5	910,830	264,305	26431	2.9%
54	2.7	9	402,504	142,544	14254	3.5%

A6. Wilfred Laurier University Inuvik to Tuktoyaktuk Highway Lakes

Name/ID	Latitude	Longitude	Max Depth (m)	Mean Depth (m)	Surface Area (m ²)	Volume (m ³)	Volume Under Ice (m ³)	10% Under Ice Volume	Surface Area X 0.1	% of Under Ice Volume
Lake 1	68.3510	133.7086	5.9	1.7	212776	358092	63093	6309	21278	34%
Lake 2	68.3352	133.6801	5.2	2.1	323179	688795	231655	23166	32318	14%
Lake 3	68.3197	133.6155	5.5	2	896062	1807714	530065	53006	89606	17%
Lake 4	68.3161	133.3866	1.8	0.9	125384	109646	0	0	12538	-
Lake 5	68.3121	133.3506	5.2	1.5	13440	19913	5241	524	1344	26%
Lake 6	68.2954	133.2823	2.2	1.4	100900	138538	339	34	10090	2976%
Lake 7	68.0695	133.5071	7.3	2.3	32552	74815	32847	3285	3255	10%
Lake 8	68.0438	133.4886	6.9	3.5	21411	74314	38387	3839	2141	6%
Lake 9	68.0057	133.4691	12.2	6.6	30211	198990	142487	14249	3021	2%
Lake 11	67.8633	133.6460	19.9	10	34067	340429	279318	27932	3407	1%
Lake 13	67.7212	133.8825	8.4	5.2	17018	87906	56478	5648	1702	3%
Lake 14	67.6544	133.8507	8.8	5.8	25351	147025	98567	9857	2535	3%
Lake 16	67.4418	133.7622	5.2	2.6	51543	131479	41734	4173	5154	12%
Lake 17	67.4216	133.9257	1.8	1.1	49967	54314	0	0	4997	-
Lake 18	67.4200	133.9407	2.5	1.1	38730	42599	343	34	3873	1129%
Lake 19	67.3821	134.0398	1.8	0.8	162659	132330	0	0	16266	-
Lake 20	67.3805	134.1505	16.3	7.3	26351	193205	144666	14467	2635	2%
Lake 21	67.4636	134.7448	2.6	1.2	99487	123016	4681	468	9949	213%
Lake 22	67.4432	134.7956	1.7	0.8	96766	78034	0	0	9677	-
Lake 23	67.4286	134.8466	4.8	1.9	68171	126807	26287	2629	6817	26%
Lake 24	67.4272	134.8621	6.1	2.2	92171	206843	66757	6676	9217	14%
Lake 25	67.3432	134.8685	4.5	1.3	8146	10642	1655	165	815	49%
Lake 26	67.3414	134.8685	2.8	1	10645	10358	454	45	1065	234%
Lake 27	67.3376	134.9143	5.3	1.5	537673	822476	75403	7540	53767	71%
Lake 28	68.5430	133.730	13.2	3	2364503	6996707	3844838	384484	236450	6%
Lake 29	68.5753	133.7508	2.4	1.3	1133016	1463679	13806	1381	113302	821%
Lake 30	68.8115	133.5402	4.9	1.5	144288	217821	37770	3777	14429	38%
Lake 31	68.8126	133.5616	7.2	2	225070	459633	128003	12800	22507	18%
Lake 32	68.8230	133.5616	2.5	1.5	1834865	2699646	53086	5309	183487	346%
Lake 33	68.8464	133.5394	7.5	1.8	723990	1289483	304794	30479	72399	24%
Lake 34	68.8459	133.5591	2.4	1.4	201052	274774	6739	674	20105	298%
Lake 35	68.8960	133.5520	4.2	0.9	424061	375090	3916	392	42406	1083%
Lake 36	68.8960	133.5520	3.3	1	576692	565121	6375	638	57669	905%
Lake 37	69.0077	133.3030	6.6	1.2	316543	379921	99308	9931	31654	32%
Lake 38	69.0530	133.1910	9.5	1.7	374192	626516	187007	18701	37419	20%
Lake 39	69.0620	133.1440	4.5	1.5	270229	404076	51450	5145	27023	53%
Lake 40	69.0985	133.0774	2.9	1.6	1147080	1836462	161251	16125	114708	71%
Lake 41	69.1182	133.0534	3.8	1.3	229880	288404	38793	3879	22988	59%
Lake 42	69.1272	133.0327	3.4	1	335888	331890	17690	1769	33589	190%
Lake 43	69.1610	133.040	10.7	1.9	665258	1289309	450468	45047	66526	15%
Lake 45	69.2129	132.9092	2.7	1.4	259185	351527	21849	2185	25919	119%
Lake 46	69.2181	132.8784	3.4	2	634836	1291229	140360	14036	63484	45%
Lake 47	69.3167	132.9838	8.9	1.8	1330491	2414117	869406	86941	133049	15%
Lake 48	69.3607	133.0417	9.1	1.8	680838	1208670	337274	33727	68084	20%
Lake 49	69.3697	133.0490	3.3	1.6	307038	478263	35687	3569	30704	86%
Lake 50	67.4135	134.4085	1.2	0.6	413605	242713	0	0	41361	-
Lake 51	67.4040	134.7821	1.5	0.8	420596	356020	0	0	42060	-
Lake 52	67.4087	133.9565	2.3	0.9	1885228	1718245	975	98	188523	19333%
Lake 53	68.3441	133.7060	5.8	2	142186	288093	76251	7625	14219	19%
Lake 54	68.8255	133.5447	5.2	1.6	714590	1107642	94238	9424	71459	76%
Lake 55	68.9068	133.4956	4	1.6	31928	52304	5537	554	3193	58%
Lake 56	69.2852	132.9023	10.6	3.1	701297	2190788	1097179	109718	70130	6%
Lake 57	69.3736	133.0345	5.2	1.1	273211	308964	19285	1928	27321	142%
Lake 58	67.4436	134.5125	6.7	2	303514	617007	211970	21197	30351	14%
Lake 59	69.2630	132.9140	3.8	1.6	42654	66929	11812	1181	4265	36%
Lake 60	67.4787	134.7089	6.4	1.4	47358	68545	20692	2069	4736	23%
Lake 61	69.1414	133.0293	4.7	1.7	101788	170090	32139	3214	10179	32%
CIMP2019-12	67.3987	134.3534	1.2	0.4	408670	152740	0	0	40867	0%
CIMP2019-29	69.2977	132.9056	9.6	2.8	1046330	2959885	1177375	117738	104633	9%