

CMSCWD LAKES 2019 WATER QUALITY DATA TRENDS SUMMARY

Lake	Surface Area (Acres)	Direct Drainage Area (Acres)	Deep or Shallow	2010-2019 June-September Average		State Goals		District Goals		Distance to State Goal		Distance to District Goal		Long Term Trend*** All Years Through 2019		Short Term (10 yr) Trend*** 2010-2019		MLCCS 2016 Watershed Development (%)	Number of Shoreland Parcels	Public Access	Lake Association
				TP (µg/L)	Secchi (m)	TP (µg/L)	Secchi (m)	TP (µg/L)	Secchi (m)	TP	Secchi	TP	Secchi	TP	Secchi	TP	Secchi				
Alice	26	252	Shallow	21	1.68	60	1	NA	NA	-65%	68%	NA	NA	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	18%	2	Yes	
Barker Lake	44	603	Shallow	67	1.07	60	1	40	1.4	11%	7%	67%	-23%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	10%	4		
Bass Lake	60	1,161	Shallow	28	2.30	60	1	40	1.7	-53%	130%	-30%	35%	Insufficient Data	Minimally Worsening	Insufficient Data	Insufficient Data	20%	1		
Carol Lake	34	454	Shallow	31	0.84	60	1	35	1.4	-48%	-16%	-11%	-40%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	34%	8		
Clear Lake	41	107	Shallow	13	4.40	40	1.4	23	4.6	-67%	214%	-42%	-4%	Insufficient Data	Strongly Worsening	Insufficient Data	Strongly Worsening	5%	6		
German Lake	62	941	Shallow	20	2.16	60	1	30	1.8	-67%	116%	-34%	20%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	36%	9		
Mays Lake	48	152	Deep	19	4.05	40	1.4	20	4.6	-53%	189%	-6%	-12%	Insufficient Data	Minimally Worsening	Insufficient Data	Minimally Worsening	8%	6		
North Twin Lake	61	395	Shallow	24	0.99	60	1	35	1.4	-60%	-1%	-31%	-29%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	25%	23		
Silver Lake	73	644	Shallow	23	1.64	60	1	50	1.4	-62%	64%	-54%	17%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	36%	11		
Staples Lake	18	324	Shallow	22	2.70	60	1	30	2.7	-63%	170%	-25%	0%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	20%	3		
Terrapin Lake	124	1,251	Shallow	18	2.98	60	1	30	3	-69%	198%	-39%	-1%	Insufficient Data	Minimally Worsening	Insufficient Data	Insufficient Data	15%	17		
Turtle Lake	55	892	Shallow	70	0.87	60	1	60	1.1	17%	-13%	17%	-21%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	4%	5		
West Lake (May Twp)	12	461	Shallow	13	4.30	40	1.4	20	4.6	-68%	207%	-35%	-7%	Insufficient Data	Insufficient Data	Insufficient Data	Minimally Worsening	33%	1		
West Boot Lake	44	324	Deep	20	3.51	40	1.4	25	2.7	-50%	151%	-21%	30%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	30%	12	ROW	
Big Carnelian Lake	458	3,401	Deep	18	4.79	40	1.4	20	3	-56%	242%	-12%	60%	Insufficient Data	Strongly Improving	Strongly Worsening	Strongly Worsening	40%	252	Yes	
Big Marine Lake	1,621	5,262	Deep	16	3.84	40	1.4	20	3.4	-60%	174%	-21%	13%	Insufficient Data	Strongly Improving	Minimally Improving	Minimally Improving	24%	382	Yes	Yes
Little Carnelian Lake	79	1,037	Deep	11	6.12	40	1.4	13	5.2	-73%	337%	-16%	18%	Minimally Improving	Minimally Improving	Insufficient Data	Minimally Worsening	33%	30	Yes	
Sand Lake	47	942	Shallow	41	1.53	60	1	38	1.9	-32%	53%	7%	-19%	Insufficient Data	Minimally Worsening	Minimally Improving	Minimally Worsening	45%	46		Yes
Square Lake	203	806	Deep	11	5.24	40	1.4	15	7	-73%	275%	-28%	-25%	Minimally Improving	Strongly Worsening	Minimally Improving	Minimally Improving	34%	55	Yes	Yes
Hay Lake	34	257	Shallow	38	1.48	60	1	60	1.8	-37%	48%	-37%	-18%	Strongly Improving	Minimally Improving	Strongly Improving	Minimally Worsening	57%	8		
East Boot Lake	43	201	Deep	24	3.53	40	1.4	30	2.7	-39%	152%	-18%	31%	Strongly Improving	Strongly Improving	Minimally Improving	Minimally Worsening	16%	6	ROW	
Fish Lake	60	1,038	Shallow	64	1.38	60	1	80	0.6	7%	38%	-20%	130%	Strongly Improving	Strongly Improving	Insufficient Data	Insufficient Data	38%	10		
Goose Lake	84	685	Deep	41	1.61	40	1.4	55	1.8	2%	15%	-26%	-11%	Strongly Improving	Minimally Worsening	Minimally Improving	Minimally Improving	46%	33	Yes	
Long Lake (May Twp)	66	956	Shallow	35	2.23	60	1	34	2.4	-42%	123%	2%	-7%	Strongly Improving	Minimally Improving	Insufficient Data	Insufficient Data	35%	14	ROW	Yes
Jellum's Lake	62	419	Shallow	50	1.53	60	1	50	0.9	-16%	53%	1%	70%	Minimally Improving	Strongly Improving	Insufficient Data	Insufficient Data	36%	17	ROW	
Long Lake (Scandia)	42	451	Shallow	69	0.90	60	1	80	0.5	15%	-10%	-14%	81%	Minimally Improving	Minimally Improving	Insufficient Data	Insufficient Data	32%	16	ROW	
South Twin Lake	53	144	Shallow	40	1.87	60	1	60	0.8	-33%	87%	-33%	134%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	36%	10		
Louise Lake	35	1,539	Shallow	80	1.55	60	1	140	0.9	33%	55%	-43%	72%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	53%	9		
Loon Lake	51	773	Shallow	82	0.44	60	1	80	0.6	37%	-56%	3%	-26%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	41%	24		
Mud Lake	65	1,109	Shallow	87	0.46	60	1	100	0.5	44%	-54%	-13%	-9%	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	5%	14		
Maple Marsh	33	186	Shallow	NA	NA	60	1	100	0.9	NA	NA	NA	NA	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	18%	4		

* Goals listed are District goals unless the resource is impaired or the District goal is greater than the State goal

** Resources previously included in a Clean Water Partnership Diagnostic Study

*** Trends based on Pre-whitened Kendall Tau with Sen-Theil Slope with a 10% level of significance