

2001 305(b) Summary Report (1999 data) Inland Lakes

In all, 369 lakes representing 156,994 acres were assessed. Overall lake use was fully or partially attained on 97.6 percent of the number and 97.4 percent of the acreage assessed.

Statewide Overall Use Support - All Lakes.

Degree of Overall Use Support	Assessment Category				Total Lakes Assessed			
	Monitored		Evaluated					
	Number	Acres	Number	Acres	Number	%	Acres	%
Full	69	21,419	80	5,559	149	40.4	26,978	17.2
Full/Threatened	1	811	3	322	4	1.1	1,133	0.7
Partial	109	92,696	98	32,078	207	56.1	124,774	79.5
Nonsupport	2	1919	7	2,190	9	2.4	4,109	2.6
TOTAL	181	116,845	188	40,149	369	100.0	156,994	100.0

Statewide Individual Use Support - All Lakes.

Degree of Support	Fish Consumption Use		Aquatic Life Use		Swimming Use		Drinking Water Use		Recreation Use	
	#	Acres	#	Acres	#	Acres	#	Acres	#	Acres
Full	95	96,537	293	88,177	133	23,847	48	63,505	56	6,740
Partial	9	19,207	59	64,806	182	117,197	18	11,580	260	128,333
Nonsupport	2	5,275	0	0	37	11,939	0	0	36	17,910
TOTAL	106	121,019	352	152,983	352	152,983	66	75,085	352	152,983

Trophic Status - All Lakes.

Trophic State	Total Assessed			
	Number	%	Acres	%
Oligotrophic	5	1.4	205	0.1
Mesotrophic	41	11.1	5,752	3.7
Eutrophic	223	60.4	90,312	57.5
Hypereutrophic	83	22.5	56,714	36.1
Unassessed	17	4.6	4,011	2.6
TOTAL	369	100.0	156,994	100.0

Lake Trends

	Number	%	Acres	%
Improving	24	6.5	23,389	14.9
Stable	64	17.3	20,927	13.3
Fluctuating	141	38.2	60,355	38.4
Declining	26	7.1	14,569	9.3
Unassessed	114	30.9	37,754	24.1
TOTAL	369	100.0	156,994	100.0

Statewide Causes of Impairment for All Lakes
(Causes of impairment for all lakes not achieving “full” support)

Causes Category	Total Impact	
	Number	Acres
Priority Organics	34	29,878
PCBs	7	15,457
Metals	10	7,160
Unionized Ammonia	11	6,475
Nutrients	165	125,272
pH	22	10,056
Siltation	112	106,960
Organic Enrichment/Low D.O.	47	88,313
Salinity/TDS/Chlorides	1	26
Habitat Alterations	2	1980
Pathogens	1	4040
Suspended Solids	90	103,287
Noxious Aquatic Plants	79	65,053
Excessive Algae Growth/Chlorophyll <i>a</i>	137	62,699
Exotic Species	7	440
Cause Unknown	11	510

Statewide Sources of Use Impairment for All Lakes
(Sources of impairment for all lakes not achieving “full” support)

Sources Category	Total Impact	
	Number	Acres
Industrial Point Sources	4	13,778
Municipal Point Sources	6	28,784
Agriculture	169	123,647
Off-farm Animal Holding/Management Area	1	23
Silviculture	3	11
Construction	46	5,831
Urban Runoff/Storm Sewers	87	43,669
Resource Extraction	3	19,006
Land Disposal	39	20,852
Hydromodification	14	7,149
Habitat Modification (other than Hydromod.)	115	110,747
Other		
Highway Maintenance and Runoff	7	26,143
Spills	1	40
Contaminated Sediments	85	91,464
Natural Sources	7	7,752
Recreational and Tourism Activities	45	94,602
Groundwater Loadings	1	5
Waterfowl	33	11,679
Lake Fertilization	5	424
Herbicide/Algicide Application	3	527
Forest/Grassland/Parkland	105	107,044
Source Unknown	14	4,635

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Significant Publicly-Owned Lakes

Overall Use Support

For significant publicly-owned lakes, 213 lakes representing 127,163 acres were assessed. Overall lake use was fully or partially attained on 98.1 percent of the number and 97.0 percent of the acreage assessed.

Statewide Overall Use Support Significant Publicly-Owned Lakes

Degree of Overall Use Support	Assessment Category				Total Assessed			
	Monitored		Evaluated					
	Number	Acres	Number	Acres	Number	%	Acres	%
Full	59	13,798	26	1,518	85	39.9	15,316	12.0
Full/Threatened	1	811	1	7	2	0.9	818	0.6
Partial	96	79,570	26	27,696	122	57.3	107,266	84.4
Nonsupport	2	1,919	2	1,844	4	1.9	3,763	3.0
TOTAL	158	96,098	55	31,065	213	100.0	127,163	100.0

Statewide Individual Use Support Significant Publicly-Owned Lakes

Degree of Support	Fish Consumption		Aquatic Life		Swimming		Drinking Water		Recreation	
	#	Acres	#	Acres	#	Acres	#	Acres	#	Acres
Full	80	81,768	161	62,569	68	13,132	43	61,170	32	4,466
Partial	6	17,001	39	62,073	106	100,146	15	10,432	143	102,816
Nonsupport	2	5,275	0	0	26	11,364	0	0	25	17,360
TOTAL	88	104,044	200	124,642	200	124,642	58	71,602	200	124,642

Trophic Status - Significant Publicly-Owned Lakes

Trophic State	Total Assessed			
	Number	%	Acres	%
Oligotrophic	1	0.5	24	0.0
Mesotrophic	26	12.2	4,447	3.5
Eutrophic	117	54.9	65,499	51.5
Hypereutrophic	56	26.3	54,672	43.0
Unassessed	13	6.1	2,521	2.0
TOTAL	213	100.0	127,163	100.0

Trends - Significant Publicly-Owned Lakes

	Number	%	Acres	%
Improving	13	6.1	22,714	17.9
Stable	44	20.7	15,849	12.5
Fluctuating	82	38.5	40,997	32.2
Declining	15	7.0	13,655	10.7
Unassessed	59	27.7	33,948	26.7
TOTAL	213	100.0	127,163	100.0

Statewide Causes - Significant Publicly-Owned Lakes

(Causes of impairment for all significant publicly-owned lakes not achieving “full” support)

Causes Category	Total Impact	
	Number	Acres
Priority Organics	31	29,264
PCB's	5	14,677
Metals	10	7,160
Unionized Ammonia	11	6,475
Nutrients	117	111,266
pH	22	10,860
Siltation	70	92,216
Organic Enrichment/Low D.O.	44	88,492
Salinity/TDS/Chlorides	1	26
Habitat Alterations	1	1890
Pathogens	1	4040
Suspended Solids	75	93,761
Noxious Aquatic Plants	35	61,727
Excessive Algae Growth/Chlorophyll <i>a</i>	105	52,415
Exotic Species	1	61
Cause Unknown	2	45

Statewide Sources - Significant Publicly-Owned Lakes

(Sources of impairment for all significant publicly-owned lakes not achieving “full” support)

Sources Category	Total Impact	
	Number	Acres
Industrial Point Sources	2	7,133
Municipal Point Sources	5	23,889
Agriculture	107	109,809
Off-farm Animal Holding/Management Area	1	23
Construction	18	4,028
Urban Runoff/Storm Sewers	44	35,842
Resource Extraction	2	18,924
Land Disposal	27	19,966
Hydromodification	11	7,121
Habitat Modification (other than Hydromod.)	76	97,910
Other		
Highway Maintenance and Runoff	6	25,915
Spills	1	40
Contaminated Sediments	46	82,459
Natural Sources	7	7,752
Recreational and Tourism Activities	31	88,729
Waterfowl	20	10,928
Lake Fertilization	5	424
Herbicide / Algicide Application	2	299
Forest/Grassland/Parkland	80	95,954
Source Unknown	6	4,253

2001 305(b) Summary Report (1999 data) Rivers and Streams

The overall use support of rivers and streams was assessed and summarized for this report. A total of 15,570 stream miles were assessed. Overall stream use was fully or partially attained on 98.6 percent of the stream miles assessed.

Statewide Overall Use Support - Rivers and Streams (miles)

Degree of Overall Use Support	Assessment Category		Total Assessed Miles	% of Total Miles
	Monitored Miles	Evaluated Miles		
Full	7,766	2,019	9,785	62.8
Full/Threatened	64	11	75	0.5
Partial	3,623	1,874	5,497	35.3
Nonsupport	125	88	213	1.4
TOTAL	11,578	3,992	15,570	100.0

Statewide Individual Use Support - Rivers and Streams (miles)

Degree of Support	Aquatic Life Use	Fish Consumption Use	Swimming Use	Secondary Contact Recreation Use	Drinking Water Use
Full	9,723	2,945	848	38	986
Full/Threatened	75	0	0	0	0
Partial	5,550	830	1,686	41	374
Nonsupport	222	200	715	3	0
TOTAL	15,570	3,975	3,249	82	1,360

Statewide Causes of Impairment for Rivers and Streams

(Causes of impairment for rivers and streams not achieving “full” support)

Causes Category	Total Miles
Ammonia (unionized)	92
Cause Unknown	175
Chlorine	14
Cyanide	123
Excessive Algal	58
Flow Alteration	516
Habitat Alterations (other than flow)	3,082
Metals	1,717
Nutrients	3,443
Oil and Grease	20
Organic Enrichment/D.O.	2,929
Other Inorganics (Fluoride)	45
Pathogens	37
PCBs	101
pH	641
Priority Organics	670
Salinity/TDS/Chlorides	719
Siltation	2,368
Sulfates	361
Suspended Solids	1,717
Thermal Modification	22

Statewide Sources of Impairment for Rivers and Streams

(Sources of impairment for rivers and streams not achieving “full” support)

Sources Category	Total Miles
Industrial Point Source	366
Municipal Point Source	1,595
Combined Sewer Overflow	357
Collection System Failure	26
Wildcat Sewer	18
Agriculture	4,535
Animal Holding/Management Areas	514
Construction	241
Urban Runoff/Storm Sewers	988
Resource Extraction	1,098
Land Disposal	38
Hydromodification	2,861
Habitat Modification (other than Hydromodification)	776
Atmospheric Deposition	7
Highway Maintenance/Runoff	53
Contaminated Sediments	313
Natural Sources	137
Other	113
Source Unknown	462