

## GFP Region III Winter Oxygen Testing Results

(3/6/14)

Oxygen testing is not a totally reliable indicator of winterkill. Oxygen levels can vary significantly at different locations around a lake.										
Yellow: Most fish become stressed when oxygen levels drop below 2 ppm.										
Orange: Most fish die when exposed to oxygen levels below 1 ppm for an extended period of time.										
Walleye, bass, crappie, and bluegill are less tolerant to low oxygen levels and usually die first.										
Northern pike, yellow perch, and carp are relatively tolerant to low oxygen levels and sometimes survive when less tolerant species do not.										
Bullheads and minnows are very tolerant to low oxygen levels and some usually survive.										
A strong "rotten egg" smell from the water indicates the presence of hydrogen sulfide gas, another sign that oxygen levels are very low.										
There are no scientifically proven or cost effective methods of preventing or improving lake-wide low oxygen levels under the ice on large, shallow lakes.										
All regional waters are inspected for dead fish each spring. If dead fish are found, test netting is done to determine the extent of the kill.										
If the kill has significantly reduced game fish populations, restocking is immediately scheduled.										
DATE	COUNTY	LAKE	LOCATION ON LAKE	% SNOW COVER	SNOW DEPTH	D.O. (ppm) BOTTOM	D.O. (ppm) SURFACE	WATER DEPTH	ICE DEPTH	COMMENTS
2/12/14	Beadle	Byron	75 yds out from NW ramp	75%	2-4"	3.92	3.98	6' 6"	26"	
1/29/14	Brookings	Campbell	South end	100%	2"	2.16	2.08	5'	23"	
3/6/14	Brookings	Campbell	South end	100%	2-4"	1.08	8.42	5"	28"	strong odor present
1/29/14	Brookings	E. Oakwood	NW ramp	100%	2"	1.93	1.91	5' 6"	21.5"	
3/6/14	Brookings	E. Oakwood	NW ramp	100%	4-8"	1.5	2.8	5"6"	27"	
1/29/14	Brookings	Goldsmith	North of ramp	100%	1-2"	0.34	0.23	6'	20"	strong odor present
3/6/14	Brookings	Goldsmith	North of ramp	100%	4-8"	0.37	0.35	6'	27"	strong odor present
1/29/14	Brookings	W. Oakwood	SE side	100%	2-3"	3.02	4.59	7' 4"	21"	
3/6/14	Brookings	W. Oakwood	SE side	100%	4-8"	6.05	8.52	7"6"	33	
2/12/14	Kingsbury	Albert	1/2 mile W of east boat ramp	99%	3-6"	2.08	2.22	7' 6"	28"	
3/6/14	Kingsbury	Albert	1/2 mile W of east boat ramp	100%	4-8"	2.74	2.99	5'6"	29"	
1/29/14	Kingsbury	Preston	West side	90%	1-2"	11.9	11.77	4' 8"	23"	
2/12/14	Kingsbury	Spirit	SW corner of lake	80%	2-4"	3.64	3.84	11'	29"	
1/29/14	Kingsbury	Whitewood	NE of ramp	75%	1-2"	4.45	4.71	7' 10"	24"	
3/6/14	Kingsbury	Whitewood	NE of ramp	90%	1-6"	10.24	10.86	7"	28.5"	
2/12/14	Lake	George	middle of east end	90%	2-4"	13.32	14.11	6'	26"	

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2/12/14	Lake	Henry	middle of lake	80%	2-4"	10.68	11.11	14'	25"	
1/29/14	Lake	Herman	100 yards off E. ramp	90%	2"	0.47	NA	6' 3"	21"	
3/6/14	Lake	Herman	100 yards off E. ramp	100%	3-6"	1.72	1.87	6'	27"	
1/29/14	Lake	Long	100 yards S. of ramp	50%	1"	7.29	7.64	6'	21.5"	
1/29/14	Lake	Madison	150 yards off Walkers ramp	75%	1"	1.34	1.66	10' 6"	20"	
3/6/14	Lake	Madison	150 yards off Walkers ramp	100%	2-4"	1.24	1.98	9'6"	29.5"	
1/29/14	Lake	Madison	25 yards off Paynes ramp	75%	1"	0.8	0.81	8' 6"	14"	
3/6/14	Lake	Madison	25 yards off Paynes ramp	100%	2-4"	1.01	2.68	8'6"	23.5"	
1/29/14	Minnehaha	Beaver-M	NE of ramp	75%	1"	3.74	2.53	6' 8"	21"	
1/29/14	Minnehaha	Clear	West of ramp	75%	2"	0.34	0.41	4' 10"	20"	
2/12/14	Minnehaha	Diamond	75 yds W of boat ramp	90%	2-4"	1.19	1.32	8' 6"	25"	
1/29/14	Minnehaha	Grass	75 yards off ramp	50%	1"	4.06	NA	2' 10"	20"	
1/29/14	Minnehaha	Loss	100 yards E. of ramp	50%	1"	6.24	6.83	6'	19.5"	
1/29/14	Minnehaha	Lost	100 yards W. of ramp	75%	1"	0.3	NA	6' 6"	19"	strong odor present
1/29/14	Minnehaha	Scott	150 yards N. of ramp	50%	1"	3.74	5.39	10' 8"	21"	