Iowa 303(d) Waters Impacted by Phosphorus

The Natural Resources Conservation Service (NRCS) is proposing to adopt a Nutrient Management (590) Standard which, among other provisions, will require use of the Iowa Phosphorus Index (P-Index) to assess the potential for phosphorus transport from farm fields located in the watersheds of Iowa 303(d) listed waterbodies impacted by phosphorus.

The following 303(d) listed waterbodies are considered by the Iowa Department of Natural Resources (DNR) to be impacted by phosphorus, and thus are subject to the P-Index. Those waters tagged as “Phos Impaired” are either listed for nutrients or for nutrient related problems such as internal turbidity, algal blooms, organic enrichment, or aquatic vegetation and have above average phosphorus levels in existing monitoring data. Those waters tagged as “Monitored” are listed for nutrient related problems, but more information is needed to determine if the cause of the impairment is truly phosphorus related.

Additional information on the NRCS 590 Nutrient Management Standard will soon be available from the NRCS and detailed information about the P-Index will soon be available from Iowa State University Extension.

Attached is a map showing the locations of watersheds which will be subject to use of the P-Index.

Waterbody Name	Waterbody ID Number	Waterbody Location	Cause of Impairment	Type
Allen Green Refuge Marsh	IA 02-ICM-00145-L_0	Des Moines County, S29,T72N,R1W, 8 mi. E of Mediapolis.	nutrients	Phos Impaired
Arbor Lake	IA 03-NSK-00330-L_0	Poweshiek County, S20,T80N,R16W, W edge of Grinnell	siltation and nutrients	Phos Impaired
Badger Creek Lake	IA 04-LDM-03080-L_0	Madison County, S11,T77N,R27W, 9 mi. E of Earlham.	siltation and nutrients	Phos Impaired
Badger Lake	IA 04-UDM-03395-L_0	Webster County, S19,T90N,R28W, 4.5 mi N of Fort Dodge.	siltation and organic enrichment	Phos Impaired
Beeds Lake	IA 02-WFC-0090-L_0	Franklin County, S20,T92N,R20W, 2 mi W, 1 mi N of Hampton	siltation and nutrients	Phos Impaired
Big Creek Lake	IA 04-UDM-0140-L_0	Polk County, S22,T81N,R25W, near Polk City	siltation and nutrients	Phos Impaired
Bob White Lake	IA 05-CHA-00690-L_0	Wayne County, S4,T68N,R22W, 1 mi W of Allerton.	siltation and nutrients	Phos Impaired
Burt Lake	IA 04-BLU-00800-L_0	Kossuth County, S9,T100N,R30W, 7 mi NNW of Swea City.	nutrients	Phos Impaired
Carter Lake	IA 06-WEM-00265-L_0	Pottawattamie County, S23,T75N,R44W, at Carter Lake.	turbidity	Monitored
Central Park Lake	IA 01-MAQ-01580-L_0	Jones County, S1,T84N,R3W, 6 mi E of Anamosa.	siltation and nutrients	Phos Impaired
Clear Lake	IA 02-WIN-00450-L_0	Cerro Gordo County, S13,T96N,R22W, at Clear Lake.	aquatic plants and nutrients	Phos Impaired
Crystal Lake	IA 02-IOW-04095-L_0	Hancock County, S15,T97N,R25W, at Crystal Lake.	aquatic plants and organic enrichment	Monitored
Dalton Lake	IA 01-MAQ-01110-L_0	Jackson County, S34,T84N,R5E, 1 mi. SE of Preston.	nutrients	Phos Impaired
Don Williams Lake	IA 04-UDM-01650-L_0	Boone County, S5,T84N,R27W, 5 mi. N of Ogden.	siltation and organic enrichment	Phos Impaired
Easter Lake	IA 04-LDM-00490-L_0	Polk County, S19,T78,R23W, SE edge of Des Moines.	siltation and nutrients	Phos Impaired
Five Island Lake	IA 04-UDM-03850-L_0	Palo Alto County, S18,T96N,R32W, at Emmetsburg.	low DO	Phos Impaired
Indian Lake	IA 04-LDM-00150-L_0	Van Buren County, S2,T67N,R8W, 1 mi SW of Farmington.	organic enrichment (fish kills)	Phos Impaired
Ingham Lake	IA 04-UDM-03985-L_0	Emmett County, S12,T98N,R33W, 6 mi E of Wallingford.	turbidity	Monitored
Klum Lake	IA 01-NEM-00115-L_0	Louisa County, S25,T75N,R2W, 2 mi. ESE of Grandview.	nutrients	Phos Impaired
Lake Cornelia	IA 04-UDM-02290-L_0	Wright County, S16,T92N,R24W, at Cornelia.	suspended solids	Monitored
Lake Darling	IA 03-SKU-01450-L_0	Washington County, S21,T74N,R9W, 3 mi W of Brighton.	siltation and nutrients	Phos Impaired
Lake Keomah	IA 03-SSK-00120-L_0	Mahaska County, S13,T75N,R15W, 4.5 mi E of Oskaloosa.	siltation and aquatic vegetation	Monitored
Lake MacBride	IA 02-IOW-00390-L_0	Johnson County, S29,T81N,R6W, 4 mi. W of Solon.	siltation and nutrients	Phos Impaired
Lake Meyers	IA 01-TRK-02245-L_0	Winneshiek County, S34,T97N,R9W, 3 mi SW of Calmar.	siltation and nutrients	Phos Impaired
Lake Miami	IA 04-LDM-00270-L_0	Monroe County, S20,T73N,R17W, 5 mi. SE of Lovilia.	siltation and nutrients	Phos Impaired
Lake of Three Fires	IA 05-PLA-00335-L_0	Taylor County, S12,T68N,R34W, 2 mi NNE of Bedford.	siltation and nutrients	Phos Impaired
Lake Smith	IA 04-EDM-00610-L_0	Kossuth County, S36,T96N,R29W, 3 mi. N of Algona.	noxious aquatic plants	Phos Impaired
Little Clear Lake	IA 04-RAC-01620-L_0	Pocahontas County, S6,T91N,R34W, 11 mi W of Pocahontas.	nutrients	Phos Impaired
Little Spirit Lake	IA 06-LSR-02870-L_0	Dickinson County, S8,T100N,R36W, 5 mi. NE of Montgomery.	noxious aquatic plants	Monitored
Little Wall Lake	IA 03-SSK-00360-L_0	Hamilton County, S10,T86N,R24W, 1 mi. S of Jewell	noxious aquatic plants (macrophytes)	Monitored
Lower Gar Lake	IA 06-LSR-02805-L_0	Dickinson County, S32,T99N,R36W, 2 mi. NE of Milford.	turbidity (internal)	Phos Impaired
Lower Pine Lake	IA 02-IOW-0330-L_0	Hardin County, S4,T87N,R19W, 0.5 mi E of Eldora.	aquatic plants and organic enrichment	Phos Impaired
Manteno Park Pond	IA 06-BOY-00263-L_0	Shelby County, S2,T81N,R40W, 8 mi NW of Defiance.	siltation and nutrients	Phos Impaired
Mariposa Lake	IA 03-NSK-00350-L_0	Jasper County, S32,T81N,R18W, 6 mi. NE of Newton.	siltation and nutrients	Phos Impaired
MUD CR.	IA 02-CED-0160_2	Mud Cr. to trib S5,T78N,R1E Muscatine Co.	organic enrichment	Monitored
North Twin Lake	IA 04-RAC-01390-L_0	Calhoun County, S1,T88N,R33W, 4 mi N of Rockwell City.	excessive algal growth and turbidity	Monitored
Pierce Creek Pond	IA 05-NSH-00220-L_0	Page County, S29,T70N,R39W, 4 mi N of Shenandoah.	siltation and nutrients	Phos Impaired
Rice Lake	IA 02-WIN-00210-L_0	Winnebago County, S13,T99N,R23W, at SE edge of Lake Mills.	nutrients	Phos Impaired
Rock Creek Lake	IA 03-NSK-00340-L_0	Jasper County, S17,T80N,R17W, 4 mi. ENE of Kellogg.	siltation and nutrients	Phos Impaired
Silver Lake	IA 02-SHL-00295-L_0	Worth County, S14,T100N,R22W, 8 mi. N of Joice.	noxious aquatic plants and low DO	Monitored
Silver Lake	IA 04-UDM-01020-L_0	Palo Alto County, S20,T95N,R34W, 2 mi W of Ayrshire.	low DO (organic enrichment)	Phos Impaired
Silver Lake	IA 01-MAQ-00680-L_0	Delaware County, S16,T88N,R4W, SE edge of Delhi.	nutrients	Phos Impaired

Waterbody Name	Waterbody ID Number	Waterbody Location	Cause of Impairment	Type
Slip Bluff Lake	IA 05-GRA-01015-L_0	Decatur County, S28,T68N,R26W, 2 mi. NW of Davis City.	siltation and nutrient	Phos Impaired
Spring Lake	IA 04-RAC-00805-L_0	Greene County, S25,T84N,R30W, 3 mi NW of Grand Junction.	noxious aquatic plants (macrophytes)	Monitored
Springbrook Lake	IA 04-RAC-02220-L_0	Guthrie County, S33,T81N,R33W, 6 mi NNE of Guthrie Center.	siltation and nutrients	Phos Impaired
Storm Lake	IA 04-RAC-00530-L_0	Buena Vista County, S14,T90N,R37W, at Storm Lake.	organic enrichment	Monitored
SUGAR CR.	IA 02-CED-0170_2	Bennett Cr. to trib S4,T80N,R2W Cedar Co.	organic enrichment	Monitored
Swan Lake	IA 04-RAC-02370-L_0	Carroll County, S27,T85N,R34W, 3 mi. SE of Carroll.	exotic species and bacteria	Phos Impaired
Trumbull Lake	IA 06-LSR-02450-L_0	Clay County, S27,T97N,R35W, 5 mi NE of Dickens.	low DO	Phos Impaired
Tuttle Lake	IA 04-EDM-00290-L_0	Emmett County, S14,T100N,R32W, 2 mi. N of Dolliver.	noxious aquatic plants	Phos Impaired
Upper Gar Lake	IA 06-LSR-02830-L_0	Dickinson County, S29,T99N,R36W, at E edge of Arnolds Park.	noxious aquatic plants	Phos Impaired
Walnut Creek Marsh	IA 05-GRA-01950-L_0	Ringgold County, S17,T68N,R30W, 4 mi WSW of Mount Ayr.	siltation and nutrients	Phos Impaired
Williamson Pond	IA 04-LDM-01995-L_0	Lucas County, S27,T73N,R21W, 2 mi. E of Williamson.	organic enrichment	Phos Impaired

Phosphorous Impacted Waters and Potential Contributing Watersheds of Iowa

Total P-Contributing Basin Area = 597,908 Acres (934 Sq Mi)
Total Potentially P-Contributing Basin Area = 115,817 Acres (181 Sq Mi)
Total Rathbun Lake Watershed Area = 354,056 Acres (553.21 Sq Mi)
Total State Area = 36,002,085 Acres (56,253 Sq Mi)