

Table A1. Predictive values for total phosphorus from formulas found on Table L, 10 CSR 20-7.031 for lakes that have been assessed
 Note - Lakes listed in **bold** have been included in the 2010 303(d) list.

Region	Lake Name	Historic	Hydraulic	Dam	Predictive	Reference	Assessed	Criteria
		Prairie	Retention	Height	Value	Value	Value	Value
		% watershed	years	feet	µg/L	µg/L	µg/L	µg/L
Ozark Border	Binder	0.0	1.038	48	30	41	53	41
Ozark Border	Manito	74.9	0.806	43	32	41	97	41
Ozark Highland	Bismark	0.0	0.137	24	36	26	23	26
Ozark Highland	Capri*	0.0	4.388	97	13	26	5	6
Ozark Highland	Clearwater	0.4	0.286	154	10	26	14	26
Ozark Highland	Council Bluff*	0.0	1.222	110	12	26	7	7
Ozark Highland	Fellows	3.3	2.014	100	12	26	14	26
Ozark Highland	Little Prairie	0.0	0.846	48	20	26	21	26
Ozark Highland	LOTO-Dam	41.9	0.392	148	10	26	26	26
Ozark Highland	McDaniel	8.7	0.179	48	20	26	32	26
Ozark Highland	Pomme de Terre	20.1	0.708	155	10	26	22	26
Ozark Highland	Springfield	7.2	0.015	45	21	26	49	26
Ozark Highland	Stockton	22.3	1.324	161	10	26	9	10
Ozark Highland	Table Rock*	4.1	2.080	252	8	26	9	9
Ozark Highland	Taneycomo	3.5	0.013	58	18	26	21	26
Ozark Highland	Wappapello	0.8	0.052	114	11	26	38	26
Plains	Atkinson	98.8	0.836	28	64	58	70	64
Plains	Bilby Ranch	100.0	2.060	54	43	58	48	58
Plains	Blue Springs	65.7	0.916	53	45	58	30	45
Plains	Bowling Green-New*	9.3	0.869	61	30	58	49	31
Plains	Bowling Green-Old*	12.4	1.568	73	21	58	19	21
Plains	Brookfield	95.1	5.269	43	40	58	21	40
Plains	Butler City	94.4	0.349	30	88	58	68	88

Table A1. (Cont.)

Region	Lake Name	Historic Prairie	Hydraulic Retention	Dam Height	Predictive Value	Reference Value	Assessed Value	Criteria Value
		% watershed	years	feet	µg/L	µg/L	µg/L	µg/L
Plains	Deer Ridge	10.1	1.810	38	26	58	27	58
Plains	Forest*	7.2	2.671	66	16	58	26	21
Plains	Fox Valley*	0.0	3.057	52	17	58	18	17
Plains	Grindstone	94.0	0.516	53	65	58	127	65
Plains	Harrison County	72.3	0.727	49	52	58	68	58
Plains	Hazel Creek*	37.6	3.857	65	22	58	22	27
Plains	Hazel Hill	100.0	0.499	38	72	58	48	58
Plains	Henry Sever	61.7	2.052	41	37	58	50	58
Plains	Higginsville	67.8	0.774	34	54	58	89	58
Plains	Hunnewell	53.6	1.478	36	40	58	33	40
Plains	Jacomo	74.8	2.836	74	32	58	31	32
Plains	Kraut Run	22.1	0.301	22	85	58	102	85
Plains	LaBelle	100.0	1.222	33	55	58	73	58
Plains	Lake St. Louis	40.4	0.217	47	96	58	63	96
Plains	Lake Ste. Louise	42.4	2.070	52	29	58	31	58
Plains	Lamar City***	86.2	0.408	26	83	58	79	83
Plains	LaPlata	100.0	1.762	43	47	58	25	47
Plains	Lincoln*	0.0	2.097	69	16	58	13	16
Plains	Little Dixie	36.8	2.236	42	30	58	55	58
Plains	Long Branch	49.3	0.914	71	38	58	41	58
Plains	Longview	91.2	1.274	110	41	58	26	41
Plains	Macon	26.7	0.983	42	37	58	56	58
Plains	Marceline (new)	70.2	1.836	49	38	58	74	58
Plains	Mark Twain	57.9	0.532	112	50	58	44	50

Table A1. (Cont.)

Region	Lake Name	Historic Prairie	Hydraulic Retention	Dam Height	Predictive Value	Reference Value	Assessed Value	Criteria Value
		% watershed	years	feet	µg/L	µg/L	µg/L	µg/L
Plains	Mozingo	93.4	5.725	77	34	58	34	58
Plains	Nodaway	100.0	2.075	55	43	58	42	43
Plains	North Lake	100.0	0.299	28	99	58	114	99
Plains	Odessa	47.1	0.954	47	41	58	38	41
Plains	PrairieLee	90.1	0.534	69	61	58	43	58
Plains	Raintree	97.1	1.281	55	47	58	40	47
Plains	Smithville	61.1	2.229	105	28	58	32	58
Plains	SpringFork***	94.7	0.310	43	88	58	147	88
Plains	Sugar Creek	41.8	0.586	49	49	58	43	49
Plains	Thomas Hill	37.9	1.298	70	30	58	48	58
Plains	Truman	54.7	0.353	126	64	58	41	58
Plains	Unionville	84.9	0.534	30	70	58	89	70
Plains	Viking*	62.3	5.951	85	25	58	23	25
Plains	Watkins Mill	43.3	2.704	52	28	58	36	58
Plains	Waukomis*	0.0	3.820	68	13	58	19	25
Plains	Weatherby Lake*	0.9	7.230	85	9	58	16	16

Table A2. Predictive values for total phosphorus for auxiliary sites of major lakes that have been assessed.

Region	Lake Segment Name	Maximum Depth	Depth Coefficient	Depth at Sample Site	Predictive Value	Reference Value	Assessed Value	Criteria Value
		feet		Feet	µg/L	µg/L	µg/L	µg/L
Ozark Highland	LOTO-Niangua Arm	90	1.6	50	14	26	33	26
Ozark Highland	Table Rock-James R Arm	180	1.4	64	13	26	11	16**

Table A3. Predictive values for total phosphorus from formulas found on Table L, 10 CSR 20-7.031 for lakes that have not been assessed

Region	Lake Name	Historic	Hydraulic	Dam	Predictive	Reference	Estimated	Criteria
		Prairie	Retention	Height	Value	Value	Value	Value
		% watershed	years	feet	µg/L	µg/L	µg/L	µg/L
Ozark Border	Bella Vista	0.0	2.121	48	30	41	22	30
Ozark Border	Boutin	0.0	3.697	46	31	41	21	31
Ozark Border	D.C.Rogers	0.0	1.504	45	31	41	31	31
Ozark Border	Fayette	0.0	1.232	33	37	41	43	41
Ozark Border	Forest (Ann)	0.0	0.346	47	31	41	39	41
Ozark Border	Girardeau	0.0	1.044	39	34	41	47	41
Ozark Border	Glover	0.0	0.132	33	37	41	58	41
Ozark Border	Goose Creek*	0.0	2.672	139	20	26	13	12
Ozark Border	Perry Co. Comm.	0.0	0.538	47	31	41	75	41
Ozark Border	Pinnacle	0.0	0.669	49	30	41	18	30
Ozark Border	Tishomingo	0.0	1.311	68	26	41	21	26
Ozark Border	Tywappity	0.0	1.305	36	36	41	50	41
Ozark Border	Wanda Lee	0.9	0.110	47	31	41	43	41
Ozark Border	Wauwanoka*	0.0	1.810	50	30	41	12	12
Ozark Highland	Austin	0.0	0.559	27	32	26	20	26
Ozark Highland	Carmel	0.0	1.279	65	16	26	8	8
Ozark Highland	Crane*	0.0	0.147	46	21	26	13	9
Ozark Highland	Fourche Creek*	0.0	0.068	60	17	26	9	9
Ozark Highland	Fredricktown City	0.0	0.024	24	36	26	60	36
Ozark Highland	Indian Hills	7.5	0.911	50	20	26	32	26
Ozark Highland	Killarney	0.0	0.028	29	31	26	54	31
Ozark Highland	Loggers*	0.0	0.118	34	27	26	9	9
Ozark Highland	Lower Taum Sauk*	0.0	0.088	75	15	26	12	9

Table A3. (Cont.)

Region	Lake Name	Historic Prairie	Hydraulic Retention	Dam Height	Predictive Value	Reference Value	Estimated Value	Criteria Value
		% watershed	years	feet	µg/L	µg/L	µg/L	µg/L
Ozark Highland	Marseilles*	0.0	4.206	69	16	26	9	9
Ozark Highland	Miller Community	0.0	0.533	27	32	26	21	26
Ozark Highland	Monsanto*	0.0	0.380	30	30	26	9	9
Ozark Highland	Noblet*	0.0	0.011	30	30	26	11	9
Ozark Highland	Northwoods	0.0	1.394	50	20	26	20	20
Ozark Highland	Peaceful Valley	6.9	1.462	64	17	26	30	26
Ozark Highland	Pinewoods	0.0	0.718	25	35	26	26	26
Ozark Highland	Ripley	0.0	0.715	27	32	26	22	26
Ozark Highland	Roby	0.0	0.355	15	54	26	15	26
Ozark Highland	Shayne	0.0	4.123	72	15	26	6	15
Ozark Highland	Sims Valley	0.0	0.492	33	27	26	24	26
Ozark Highland	Sunnen*	0.0	0.133	48	20	26	12	9
Ozark Highland	Timberline*	0.0	0.776	73	15	26	8	8
Ozark Highland	Turner	0.0	0.321	32	28	26	17	26
Ozark Highland	Ziske	0.0	0.457	24	36	26	27	36
Plains	Allaman	39.6	0.590	20	66	58	39	58
Plains	Amarugia Highlands	62.8	1.270	31	47	58	44	47
Plains	Baring Country Club	91.8	3.044	35	44	58	27	44
Plains	Belcher Branch	0.2	1.330	47	24	58	35	58
Plains	Bethany	38.4	8.956	60	21	58	29	58
Plains	Blind Pony	45.0	0.849	35	46	58	82	58
Plains	Bushwacker	95.3	0.747	40	59	58	32	58
Plains	Cameron #1	94.3	0.300	33	94	58	172	94
Plains	Cameron #2	88.8	0.493	38	70	58	55	58

Table A3. (Cont.)

Region	Lake Name	Historic Prairie % watershed	Hydraulic Retention years	Dam Height feet	Predictive Value µg/L	Reference Value µg/L	Estimated Value µg/L	Criteria Value µg/L
Plains	Cameron #3	46.4	0.502	33	61	58	95	61
Plains	Cottontail	100.0	0.225	25	119	58	102	119
Plains	Edina City	100.0	0.622	39	65	58	62	65
Plains	Ella Ewing	96.9	0.517	22	81	58	81	81
Plains	Elmwood	23.1	1.597	47	28	58	51	58
Plains	Gopher	100.0	0.272	28	104	58	78	104
Plains	Green City	96.2	1.324	20	65	58	75	65
Plains	Hamilton City	93.2	1.687	40	47	58	52	58
Plains	Harmony Mission	99.9	0.882	42	57	58	47	57
Plains	Harrisonville	88.3	1.973	55	41	58	48	58
Plains	Holden City	78.6	2.026	58	37	58	40	58
Plains	Indian Creek	46.9	1.618	56	32	58	21	32
Plains	King	91.3	0.249	40	101	58	173	101
Plains	Lancaster	100.0	1.044	30	59	58	76	59
Plains	Lotawana	74.8	2.320	58	35	58	31	35
Plains	Maple Leaf	100.0	1.451	50	47	58	37	47
Plains	Marie*	0.0	5.793	50	14	58	14	14
Plains	Maysville	99.1	0.239	20	120	58	179	120
Plains	Memphis City	60.8	0.193	28	119	58	76	119
Plains	Monroe City	90.2	0.544	31	70	58	72	70
Plains	Montrose	84.1	0.167	33	134	58	142	134
Plains	NehaiTonkeia*	24.3	9.274	65	17	58	14	15
Plains	Nell	100.0	1.335	30	56	58	78	58
Plains	New Milan	1.2	1.305	36	28	58	39	58

Table A3. (Cont.)

Region	Lake Name	Historic Prairie	Hydraulic Retention	Dam Height	Predictive Value	Reference Value	Estimated Value	Criteria Value
		% watershed	years	feet	µg/L	µg/L	µg/L	µg/L
Plains	Paho	75.2	2.578	40	39	58	49	58
Plains	Pape (Concordia)	81.9	0.529	40	65	58	75	65
Plains	Pony Express	94.8	1.748	40	47	58	62	58
Plains	Rocky Fork	20.8	0.101	15	202	58	21	58
Plains	Shelbina	70.6	0.444	28	74	58	95	74
Plains	Spring	0.0	0.776	25	43	58	25	43
Plains	Sterling Price	95.6	0.683	21	74	58	90	74
Plains	Tapawingo	52.7	1.962	55	32	58	33	58
Plains	Thunderhead	69.6	1.702	54	37	58	43	58
Plains	TriCity	35.5	0.908	25	49	58	55	58
Plains	Vandalia	100.0	0.631	21	77	58	54	77
Plains	Westmoreland	79.7	0.244	34	102	58	21	58
Plains	Williams (RockyHollow)	36.0	0.557	46	50	58	72	58
Plains	Willow Brook	90.1	0.687	48	58	58	75	58
Plains	Winnebago	92.6	0.621	64	58	58	44	58

Table A4. Predictive values for total phosphorus for auxiliary sites of major lakes that have not been assessed.

Region	Lake Segment Name	Maximum Depth	Depth Coefficient	Depth at Sample Site	Predictive Value	Reference Value	Estimated Value	Criteria Value
		feet		feet	µg/L	µg/L	µg/L	µg/L
Ozark Highland	LOTO-Gravois Arm	90	1.6	70	12	26	27	26
Ozark Highland	LOTO-Grand Glaize Arm	90	1.6	50	14	26		26
Ozark Highland	Table Rock-Kings River Arm	180	1.4	44	17	26	19	18**
Ozark Highland	Table Rock-Long Creek Arm	180	1.4	104	10	26		12**

Formulas for Primary Sites

Plains TP(µg/L) = % Watershed historically prairie/4+16/hydraulic residence time+570/dam height
 Ozark Border TP(µg/L) = 15+740/dam height
 Ozark Highland TP(µg/L) = 5+740/dam height

Formulas for Auxiliary Sites

Depth Coefficient = Max Depth/Dam Height

Ozark Highland TP(µg/L) = (5+740/(Depth Coefficient*Depth at Sampling Site))

* Table M Lakes with Site-Specific Criteria

**Criteria Subject to Revision

***TMDL has been written for this waterbody