

IWR Great Lakes Basin 8-digit HUC Prioritization Efforts

25 Great Lakes Basin Watersheds, prioritized by weighted nutrient loadings

ID	Watershed	HUC8	States	Acres	Erosion (tons/yr.)	Sediment (tons/yr.)	Phosphorus (tons/yr)	Nitrogen (tons/yr)	Erosion (tons/ac./yr.)	Sediment (tons/ac./yr.)	Weighted Rank	Secondary Score
1	SENECA	04140201	NY	2,211,796	2,508,671	465,506	740.1	3,516.3	1.98	0.37	1	1.67
2	ST. JOSEPH	04050001	IN,MI	3,003,965	1,634,148	281,160	1,567.5	6,330.9	0.67	0.12	2	2.00
3	SANDUSKY	04100011	OH	1,201,747	829,513	264,839	860.8	3,279.0	0.66	0.21	3	2.60
4	WOLF	04030202	WI	2,385,637	1,119,926	229,044	772.9	3,580.1	0.95	0.19	4	1.60
5	MANITOWOC-SHEBOYGAN	04030101	WI	1,057,331	978,849	221,098	525.1	2,241.4	1.19	0.27	5	1.80
6	KALAMAZOO	04050003	MI	1,299,692	842,352	198,465	537.8	2,324.0	0.73	0.17	6	2.00
7	UPPER GENESEE	04130002	NY,PA	919,405	1,724,548	275,823	247.4	1,376.8	3.43	0.55	7	1.67
8	LOWER GRAND	04050006	MI	1,288,948	739,823	172,992	538.1	2,314.3	0.74	0.17	8	2.20
9	LOWER GENESEE	04130003	NY	701,298	799,575	175,894	276.8	1,274.0	1.61	0.36	9	2.00
10	UPPER FOX	04030201	WI	1,047,964	682,560	121,509	464.1	1,934.2	0.97	0.17	10	2.20
11	HURON-VERMILION	04100012	OH	485,958	478,463	140,490	315.0	1,247.8	0.98	0.29	11	2.40
12	CHAUTAUQUA-CONNEAUT	04120101	NY,OH,PA	564,063	705,104	173,531	176.7	881.9	2.12	0.52	12	2.60
13	GRAND	04110004	OH	455,361	713,219	178,734	147.9	708.4	1.81	0.45	13	2.20
14	BLACK-ROCKY	04110001	OH	575,643	533,853	152,214	215.4	976.2	1.10	0.31	14	2.60
15	AUGLAIZE	04100007	IN,OH	1,065,922	507,114	112,134	827.1	3,121.8	0.43	0.10	15	2.80
16	RAISIN	04100002	MI, OH	695,558	519,170	120,199	394.9	1,607.1	0.69	0.16	16	2.80
17	CEDAR-PORTAGE	04100010	OH	622,708	330,906	117,402	458.6	1,733.4	0.51	0.18	17	2.80
18	MILWAUKEE	04040003	WI	553,721	550,515	125,331	253.1	1,092.5	1.47	0.33	18	2.60
19	CUYAHOGA	04110002	OH	512,790	656,480	152,889	136.4	692.7	2.00	0.47	19	2.40
20	BLANCHARD	04100008	OH	502,953	398,438	112,849	391.5	1,475.7	0.69	0.20	20	2.80
21	MUSKEGON	04060102	MI	1,752,295	501,048	110,176	335.4	1,786.6	0.72	0.16	21	1.80
22	ST. JOSEPH	04100003	IN,MI,OH	687,037	493,323	104,623	399.1	1,614.3	0.68	0.14	22	2.40
23	ASHTABULA-CHAGRIN	04110003	OH	404,500	507,515	138,852	106.4	540.8	2.06	0.56	23	2.60
24	BUFFALO-EIGHTEENMILE	04120103	NY	477,631	532,243	121,444	137.5	722.8	2.29	0.52	24	2.00
25	THORNAPPLE	04050007	MI	548,173	427,033	106,269	255.3	1,088.5	0.77	0.19	25	2.40

Erosion and Sediment estimates from RUSLE * SEDMOD

ref: <http://www.hydra.iwr.msu.edu/iwr/cv/proposals/publications/documents/Assessing%20Sediment%20Loading2005.pdf>

Phosphorus and Nitrogen estimates from ATtILA

ref: <http://www.epa.gov/esd/land-sci/attila/index.htm>

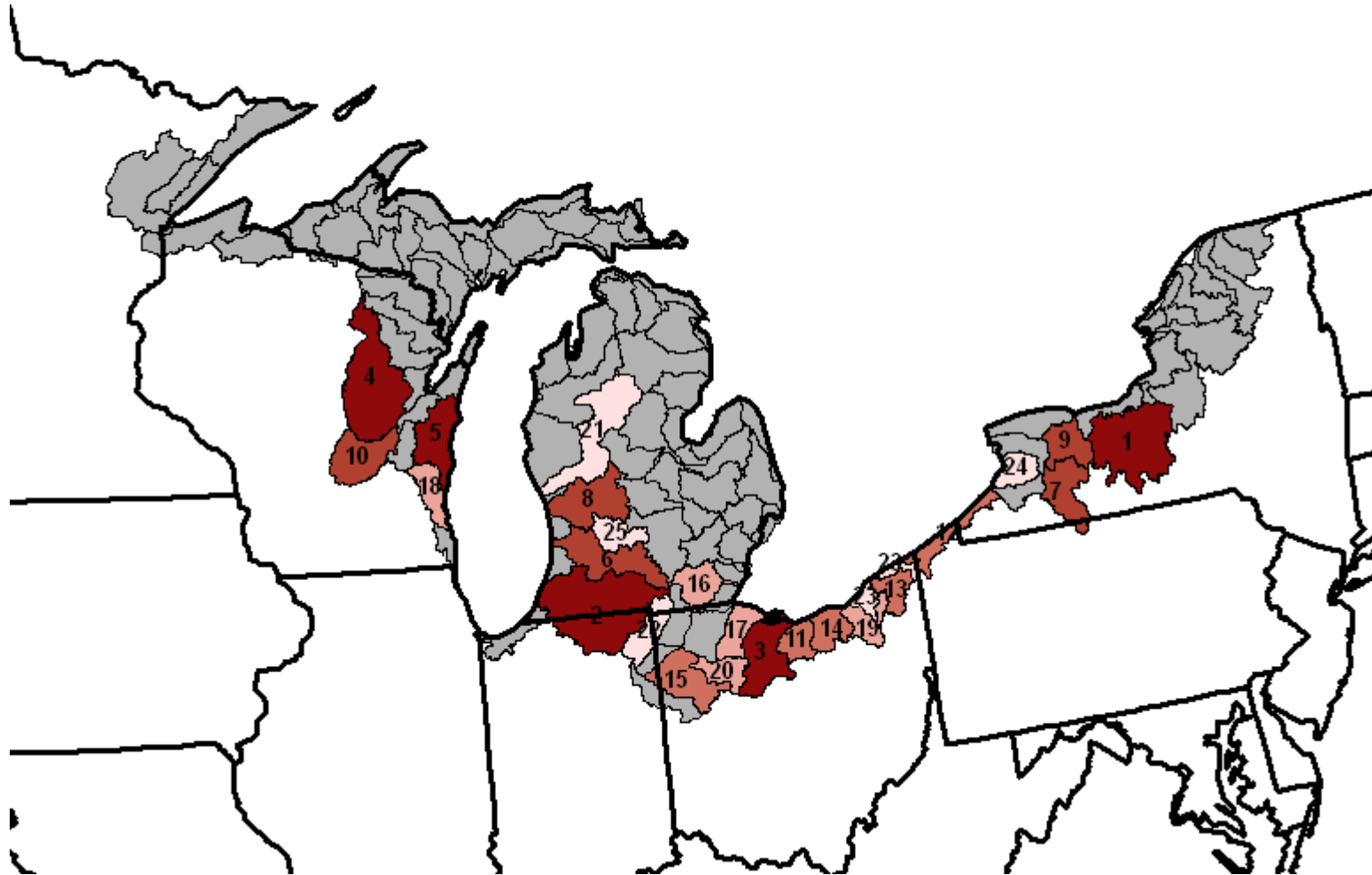
Weighted Rank is a combination of Total Sediment, Total Phosphorus, and Total Nitrogen

Secondary Score (a potential tie-braker) represents a combination of environmental and social indicators from REVA (the higher the number the better).

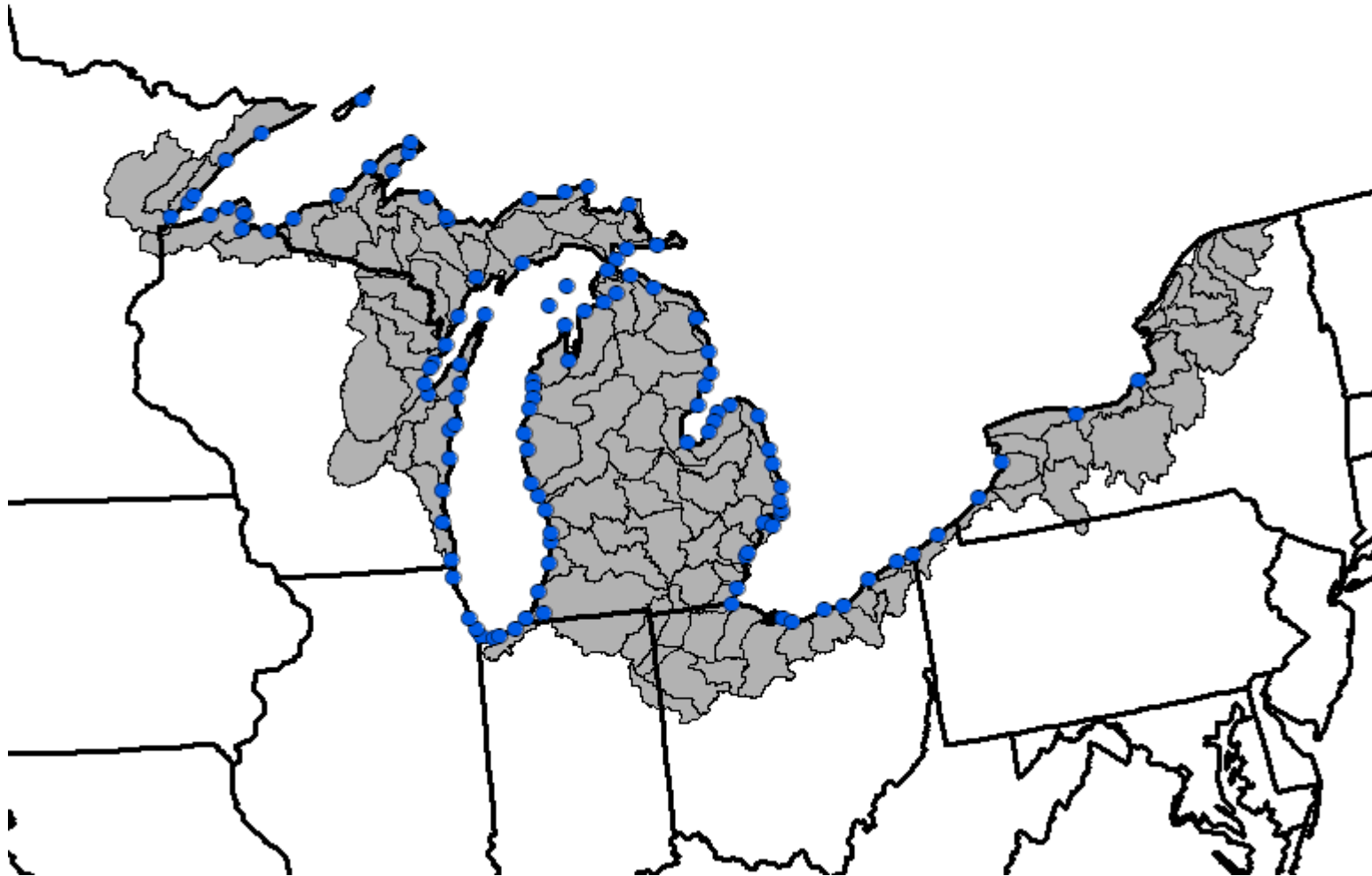
- Specifically:*
- Endangered species per acre*
 - Percteange of ag land adjacent to streams*
 - Population per square mile*
 - Cropland productivity, measured as average yield of corn (for grain) per acre (NASS)*
 - Percent of total farm acres enrolled in Conservation programs (Conservation Reserve and Wetlands Reserve Programs)*

ref: <http://www.epa.gov/reva/>

Top 25 Great Lakes Basin HUCs by Nutrient Loading



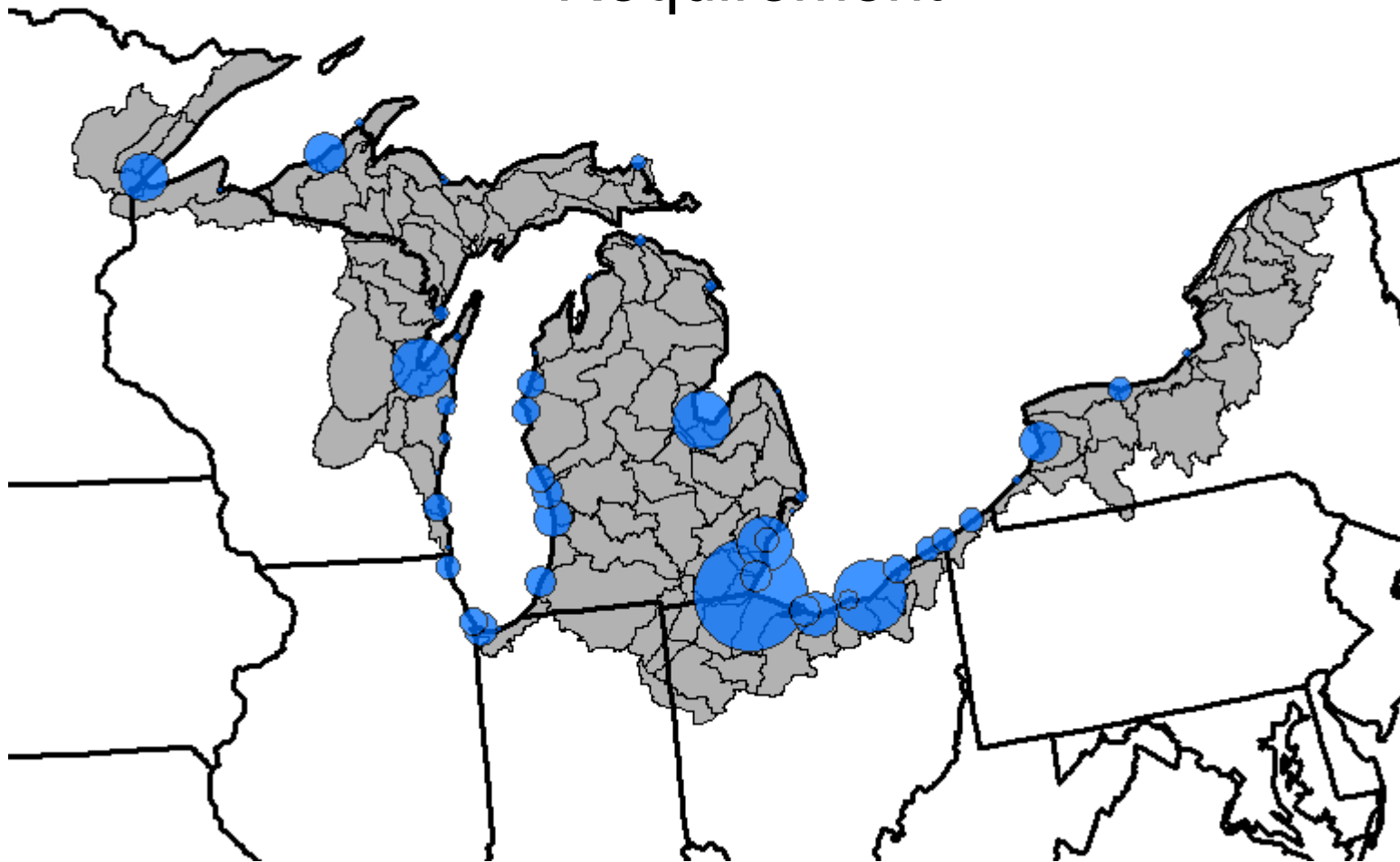
Other Ways to Prioritize:
Great Lake Basin Harbors



Based on Harbors GIS and tabular data provided by ACE.

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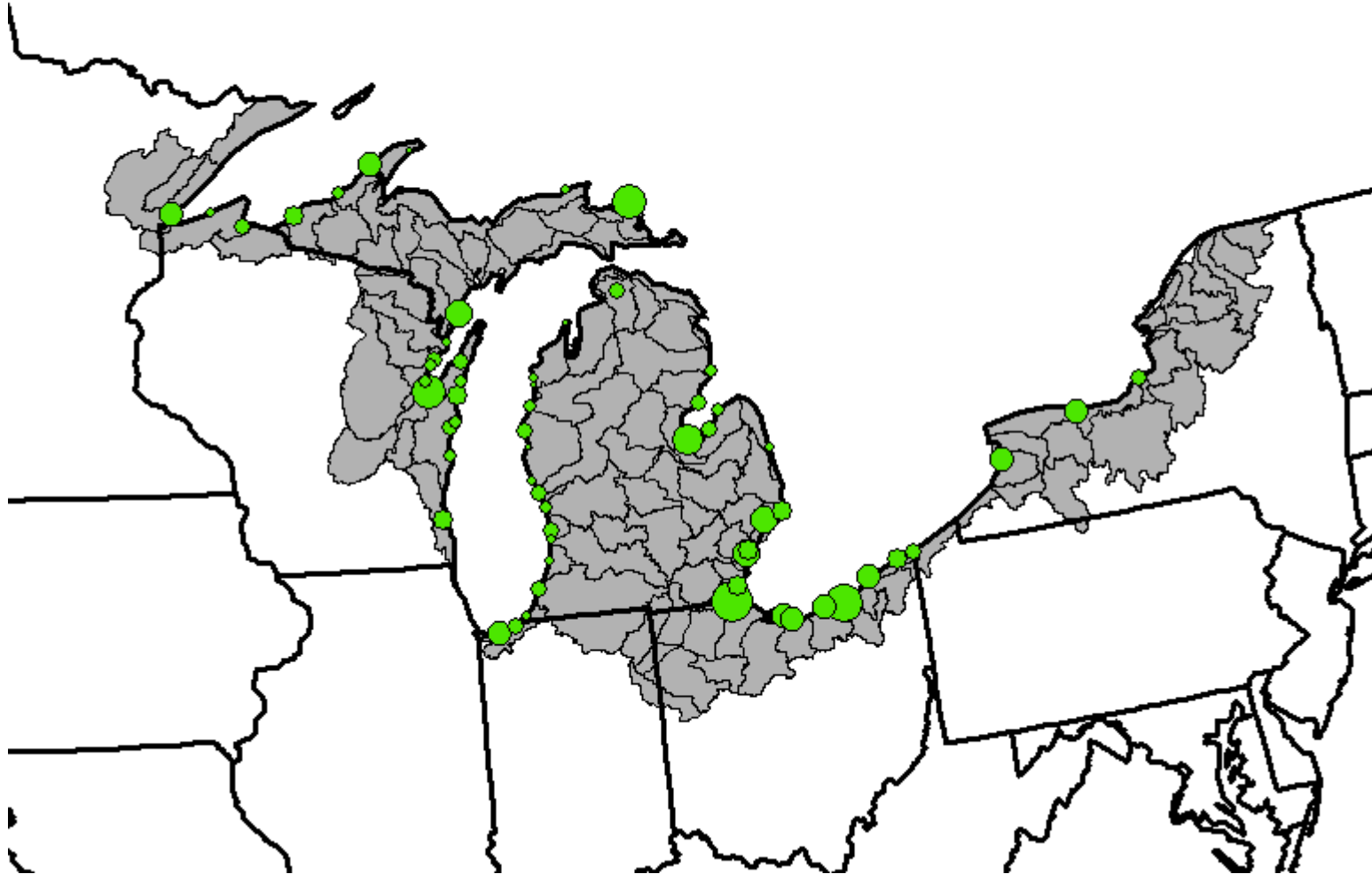
Harbors by Annual Dredging Requirement



Based on Harbors GIS and tabular data provided by ACE.

Other Ways to Prioritize:

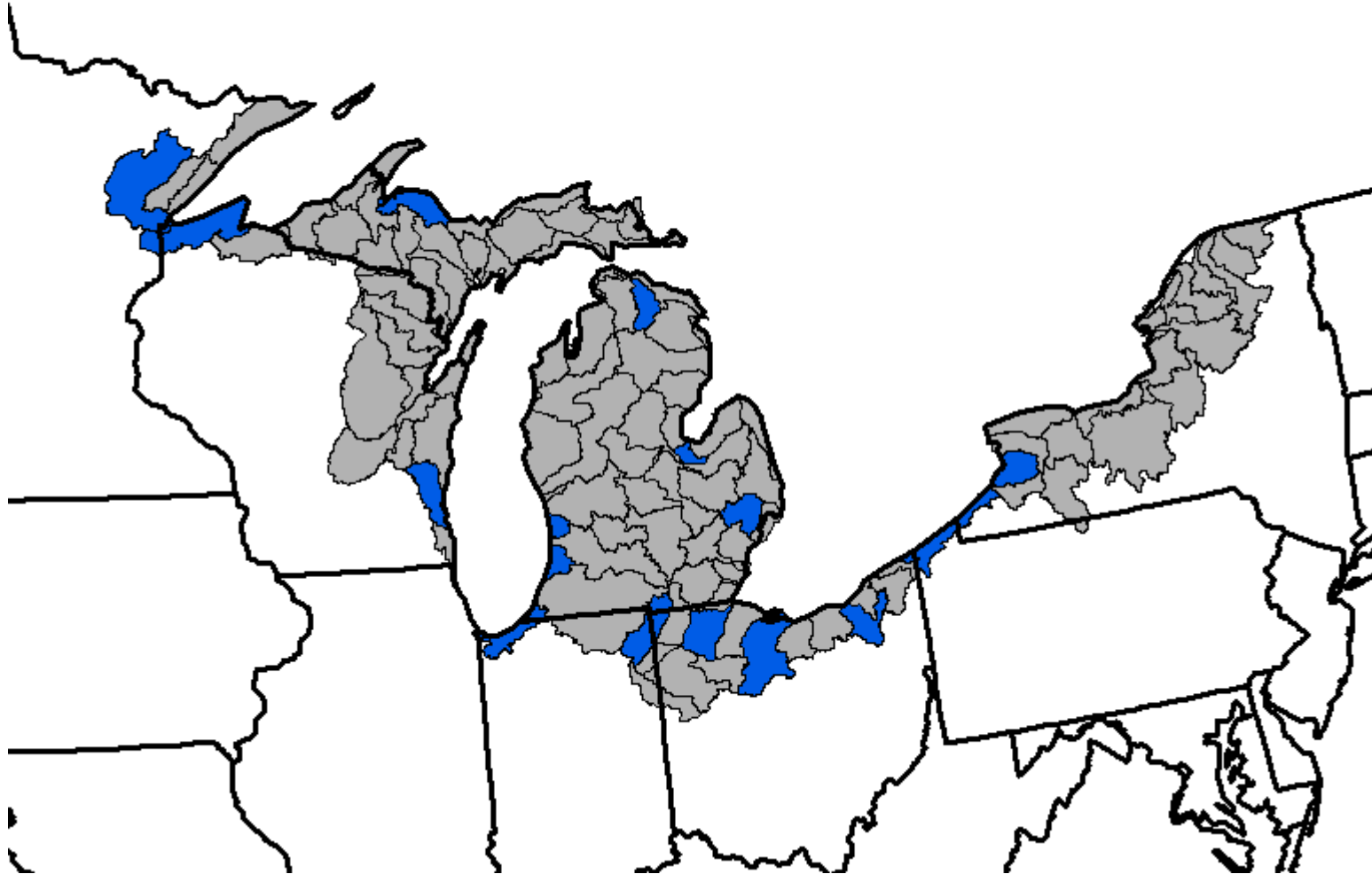
Harbors by Annual Dredging Cost



Based on Harbors GIS and tabular data provided by ACE.

Other Ways to Prioritize:

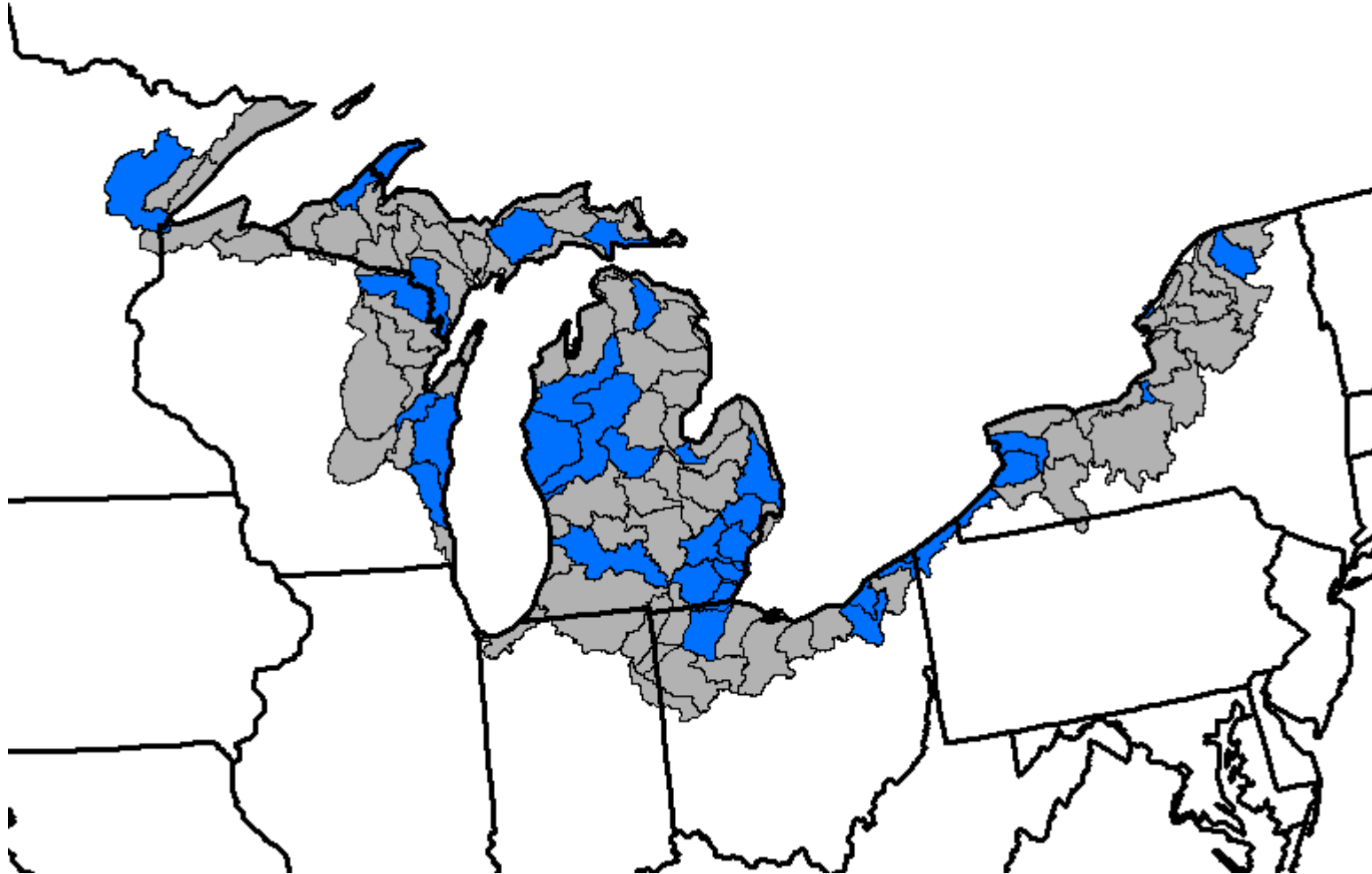
Tributary Modeling In-work or Completed



Based on Harbors GIS and tabular data provided by ACE.

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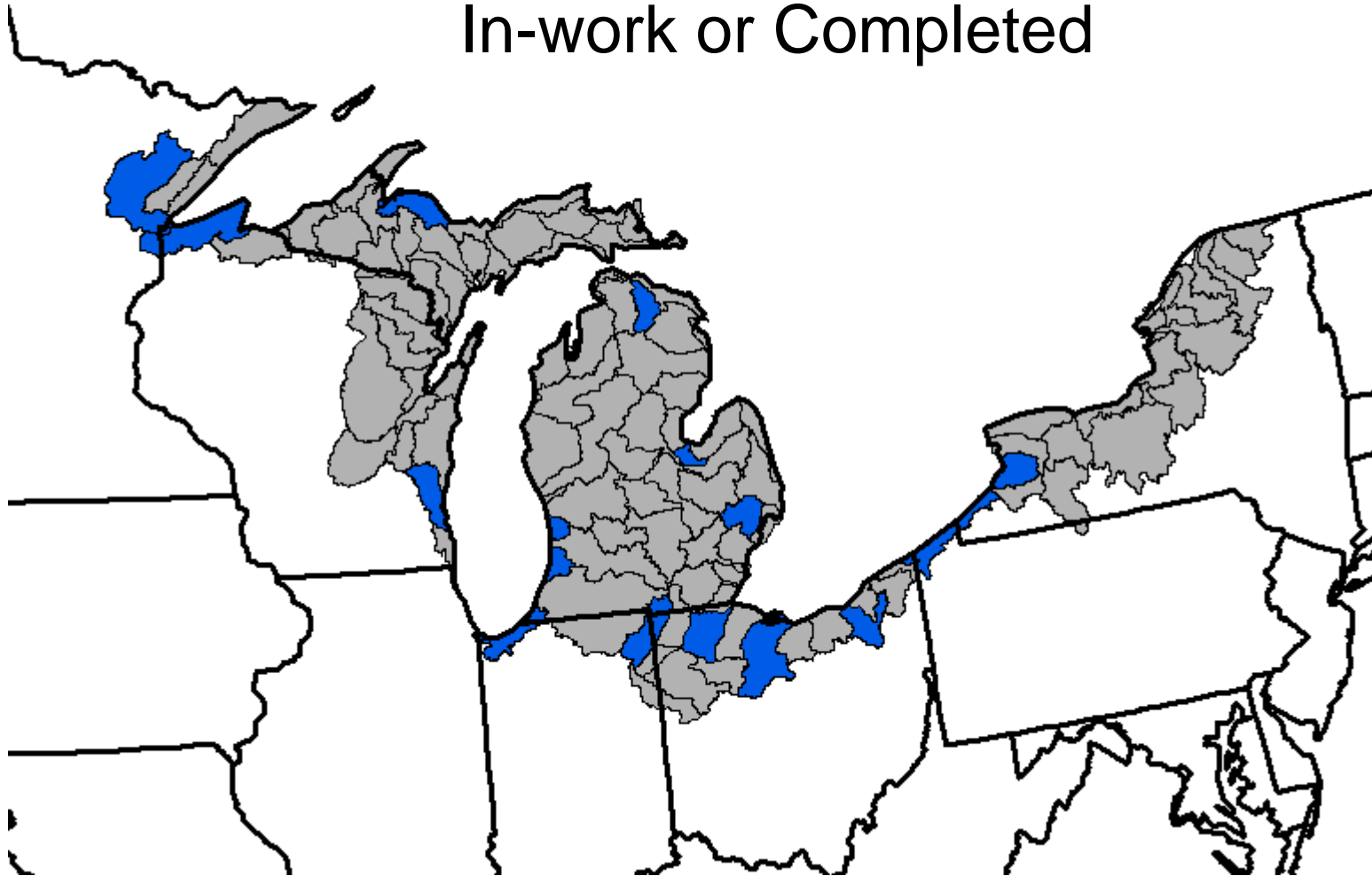
“Area of Concern” within the Watershed



Based on Harbors GIS and tabular data provided by ACE.

Other Ways to Prioritize:

Dredged Material Management Plan In-work or Completed



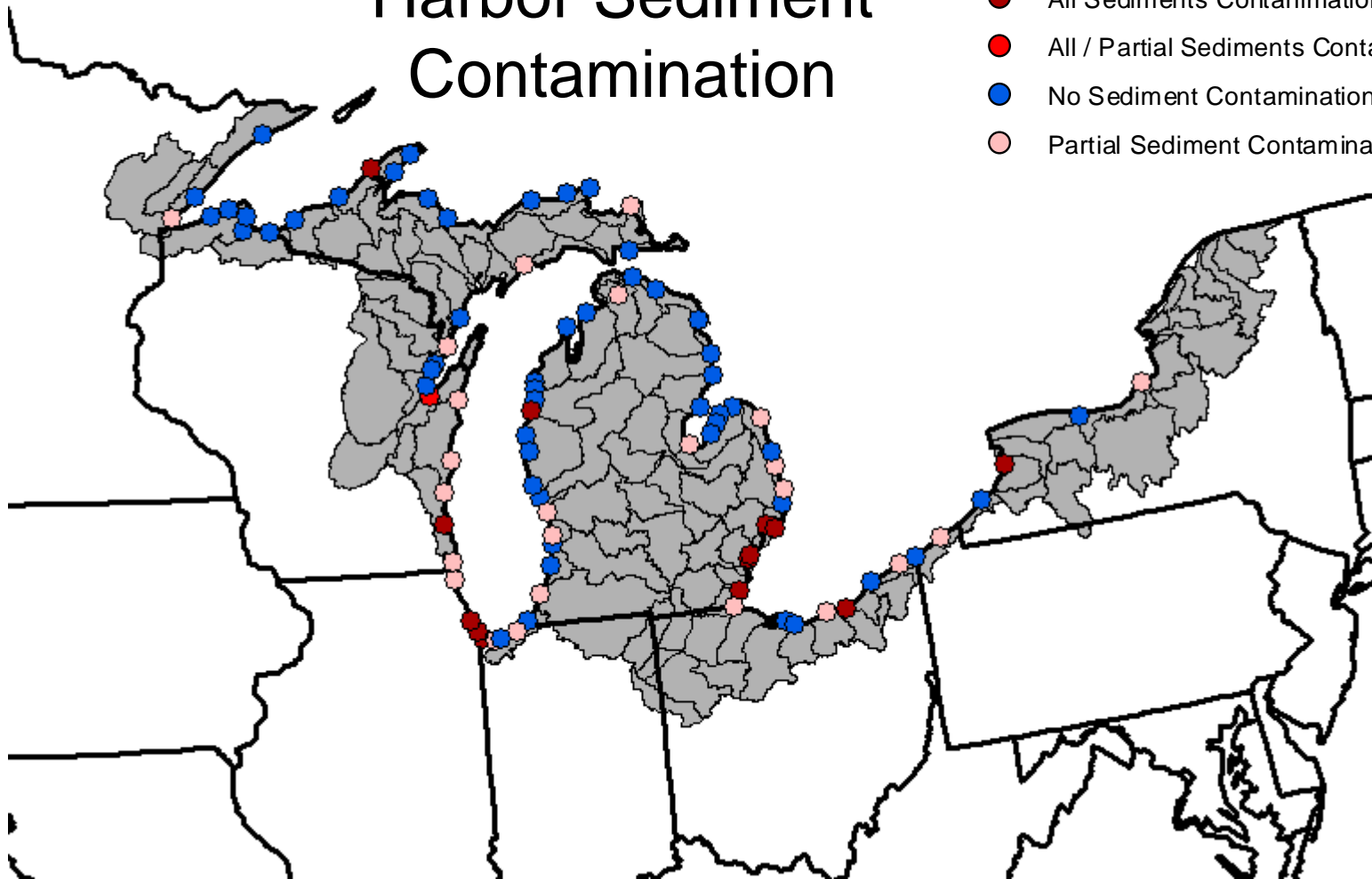
Based on Harbors GIS and tabular data provided by ACE.

Other Ways to Prioritize:

Harbor Sediment Contamination

Contaminated Sediments

- All Sediments Contamination
- All / Partial Sediments Contamination
- No Sediment Contamination
- Partial Sediment Contamination



Based on Harbors GIS and tabular data provided by ACE.