



AIS Prevention Network: Funding Scenarios

Benefits of AIS Prevention Network

- Predictable year-to-year funding
- Statewide coverage without gaps
- No need for match
- Reduced staff time preparing and ranking grants
- Streamlined set of services
 - Opens AEPP grants up to more creative projects not covered by set of core services



If money isn't awarded through a competitive grants process, how are we going to determine who gets what?



Central Questions

- What criteria determine the amount of money each county receives?
- How do we use those criteria to determine a funding strategy?



Allocation variables

- What criteria determine the amount of money each county receives?
- From the Spring Meeting
 - We brainstormed factors that predict funding need
 - We then took those ideas and outlined possible allocation variables



Allocation variables

- Resource quantity
 - Lake area
 - Stream length
 - Wetland acres
 - Great lakes coastline
- Resource quantity
 - # Trout streams
 - ORW/ERW waters
- Invasive species
 - # Invaded waterbodies
 - Mean distance to source populations
- Human population
 - # People
 - Population density
 - Housing units
 - Housing density
 - % Urban in 500m buffer
 - Road density in 500m buffer
- Human access
 - # Boat launches
 - # Access points
 - # Accessible wetlands



Allocation variables

- Resource quantity

- Lake area
- Stream length
- Wetland acres
- Great lakes

- Human population

- # of people

That's 17 different variables!

- Access

- # Boat launches
- # Access points
- # Accessible wetlands

Distance to source
Populations

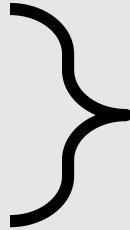


Q: Can we simplify?

A: Yes! With MATH!

- Resource quantity

- Lake area
- Stream length
- Wetland acres
- Great lakes coastline



Variable 1: inland water resources

Variable 2: coastline



Half as many Allocation variables

- Resource quantity
 1. Inland water resources
 2. Coastline
- Resource quantity
 3. Trout/OERW
- Invasive species
 4. Invasive prevalence
 5. Invasive proximity
- Human population
 6. Population
 7. Population around waterbodies
- Human access
 8. Lake & stream access
 9. Wetland access & parking

Next: Variables → Money

- Simple rank-based allocation model
- This is one approach, we can explore others
- Intended as thought experiment, interested in your reactions & ideas for improvement

Before we get started

- This is purely for discussion
 - Nothing has been decided
- Ranking doesn't incorporate magnitude of differences
 - e.g. there might not be much difference between 50th and 72nd
- We say “counties” not “Counties”
 - Nonprofits, universities, other governmental orgs are be eligible
 - County = Geographic region, not governmental body

Scenarios

- Everyone gets the same
- The Minnesota model
 - Boat ramps and parking spots
- Increasingly complex allocation models:
 - Resource quantity
 - Resource quantity + quality
 - Resource quantity + quality + people
 - Resource quantity + quality + people + invadednes
 - Resource quantity + quality + people + invadedness + distance from invasions

Everyone gets the same

\$13,000/county

Minnesota Model

1	Winnebago	138
2	Oneida	132
3	Vilas	131
4	Sheboygan	129
5	Marinette	122
6	Dane	117
7	Sawyer	117
8	Fond du Lac	115
9	Oconto	115
10	Washburn	111
11	Forest	110
12	Lincoln	109
13	Price	109
14	Door	105
15	Chippewa	104
16	Walworth	102
17	Shawano	101
18	Barron	99
19	Calumet	99
20	Racine	98

52	Green Lake	50
53	Buffalo	43
54	Washington	42
55	La Crosse	41
56	Dunn	39
57	Rock	39
58	Pepin	38
59	Iowa	36
60	St Croix	36
61	Trempealeau	33
62	Menominee	31
63	Jackson	28
64	Lafayette	28
65	Richland	20
66	Vernon	19
67	Clark	17
68	Green	17
69	Crawford	16
70	Grant	15
71	Monroe	15
72	Outagamie	4

Resource Quantity

1	Oneida	72
2	Marathon	71
3	Price	70
4	Dane	69
5	Winnebago	68
6	Sawyer	67
7	Vilas	66
8	Marinette	65
9	Douglas	64
10	Waukesha	63
11	Juneau	62
12	Oconto	61
13	Clark	60
14	Chippewa	59
15	Wood	58
16	Ashland	57
17	Jackson	56
18	Lincoln	55
19	Dodge	54
20	Forest	53

52	Vernon	21
53	St Croix	20
54	Manitowoc	19
55	Green Lake	18
56	Iowa	17
57	Buffalo	16
58	Racine	15
59	Sheboygan	14
60	Richland	13
61	Crawford	12
62	Pepin	11
63	Green	10
64	Lafayette	9
65	Door	8
66	Kenosha	7
67	Pierce	6
68	Florence	5
69	Menominee	4
70	Calumet	3
71	Kewaunee	2
72	Ozaukee	1

Quantity + Quality

1	Price	138
2	Marinette	136
3	Marathon	135
4	Oconto	131
5	Ashland	129
6	Clark	125
7	Sawyer	120
8	Chippewa	117
9	Rusk	113
10	Shawano	113
11	Iron	109
12	Dane	108
13	Dodge	108
14	Waupaca	108
15	Winnebago	105
16	Vilas	104
17	Portage	101
18	Brown	100
19	Columbia	97
20	Wood	93

52	Calumet	54
53	La Crosse	54
54	Lafayette	52
55	Trempealeau	50
56	Barron	49
57	Bayfield	49
58	Eau Claire	45
59	Grant	38
60	Ozaukee	37
61	Washington	37
62	Sauk	36
63	Manitowoc	35
64	St Croix	33
65	Kenosha	32
66	Pepin	31
67	Pierce	30
68	Green Lake	27
69	Waushara	27
70	Menominee	25
71	Door	20
72	Kewaunee	20

Quantity + Quality + People

1	Dane	251
2	Marathon	251
3	Waukesha	229
4	Dodge	224
5	Outagamie	222
6	Winnebago	210
7	Chippewa	206
8	Clark	206
9	Waupaca	204
10	Fond du Lac	200
11	Milwaukee	197
12	Columbia	196
13	Oconto	196
14	Marinette	195
15	Wood	195
16	Portage	192
17	Shawano	191
18	Walworth	186
19	Jefferson	183
20	Rock	183

52	Jackson	114
53	Buffalo	109
54	Kenosha	105
55	Washburn	105
56	Ozaukee	104
57	Richland	103
58	Manitowoc	102
59	Trempealeau	102
60	Pierce	100
61	Crawford	99
62	Bayfield	95
63	Burnett	94
64	Forest	94
65	Lafayette	91
66	Kewaunee	88
67	Waushara	86
68	Florence	85
69	Door	78
70	Green Lake	65
71	Pepin	62
72	Menominee	56

Quantity + Quality + People + Invadedness

1	Oconto	201
2	Marinette	199
3	Price	195
4	Ashland	185
5	Marathon	185
6	Sawyer	185
7	Vilas	175
8	Dane	162
9	Iron	162
10	Rusk	162
11	Chippewa	161
12	Portage	161
13	Shawano	160
14	Waupaca	153
15	Winnebago	151
16	Oneida	148
17	Lincoln	146
18	Waukesha	141
19	Polk	138
20	Brown	135

52	Ozaukee	77
53	Manitowoc	74
54	Richland	70
55	Iowa	69
56	Green	68
57	Calumet	67
58	Washington	67
59	Buffalo	66
60	Rock	65
61	Eau Claire	64
62	Waushara	63
63	Lafayette	61
64	Sauk	61
65	Kewaunee	58
66	Grant	55
67	St Croix	55
68	Menominee	49
69	Pierce	44
70	Green Lake	43
71	Pepin	34
72	Door	21

Quantity + Quality + People + Invadedness + Invasive Proximity

1	Dane	327
2	Marathon	313
3	Waukesha	306
4	Chippewa	298
5	Ashland	293
6	Sawyer	293
7	Price	283
8	Marinette	281
9	Dodge	278
10	Polk	278
11	Oconto	273
12	Walworth	268
13	Winnebago	265
14	Waupaca	264
15	Portage	262
16	Douglas	261
17	Outagamie	261
18	Columbia	260
19	Milwaukee	260
20	Wood	260

52	Forest	187
53	Marquette	186
54	Monroe	185
55	Calumet	184
56	Pierce	184
57	Iowa	182
58	Trempealeau	181
59	Crawford	180
60	Adams	173
61	Florence	172
62	Ozaukee	168
63	Richland	164
64	Lafayette	162
65	Manitowoc	159
66	Kewaunee	145
67	Waushara	143
68	Buffalo	115
69	Green Lake	111
70	Door	82
71	Menominee	81
72	Pepin	67

Results across all scenarios

1	Dane	33
2	Marathon	44
3	Marinette	53
4	Winnebago	61
5	Oconto	63
6	Chippewa	66
7	Price	71
8	Sawyer	84
9	Waukesha	91
10	Ashland	110
11	Dodge	111
12	Vilas	115
13	Waupaca	120
14	Shawano	123
15	Fond du Lac	133
16	Columbia	135
17	Portage	138
18	Rusk	152
19	Wood	165
20	Oneida	166

52	Vernon	350
53	St Croix	357
54	Kenosha	363
55	Green	365
56	Iowa	367
57	Grant	376
58	Buffalo	381
59	Florence	384
60	Manitowoc	384
61	Trempealeau	388
62	Ozaukee	402
63	Richland	402
64	Crawford	405
65	Waushara	416
66	Pierce	429
67	Door	430
68	Lafayette	439
69	Kewaunee	447
70	Green Lake	454
71	Pepin	471
72	Menominee	484

Most Complex Model – Continuous allocation

1	Dane	\$20,347
2	Marathon	\$19,521
3	Waukesha	\$19,108
4	Chippewa	\$18,635
5	Ashland	\$18,340
6	Sawyer	\$18,340
7	Price	\$17,750
8	Marinette	\$17,632
9	Dodge	\$17,455
10	Polk	\$17,455
11	Oconto	\$17,160
12	Walworth	\$16,865
13	Winnebago	\$16,688
14	Waupaca	\$16,629
15	Portage	\$16,510
16	Douglas	\$16,451
17	Outagamie	\$16,451
18	Columbia	\$16,392
19	Milwaukee	\$16,392
20	Wood	\$16,392

52	Forest	\$12,083
53	Marquette	\$12,024
54	Monroe	\$11,965
55	Calumet	\$11,906
56	Pierce	\$11,906
57	Iowa	\$11,788
58	Trempealeau	\$11,729
59	Crawford	\$11,670
60	Adams	\$11,257
61	Florence	\$11,198
62	Ozaukee	\$10,962
63	Richland	\$10,726
64	Lafayette	\$10,608
65	Manitowoc	\$10,431
66	Kewaunee	\$9,604
67	Waushara	\$9,486
68	Buffalo	\$7,833
69	Green Lake	\$7,597
70	Door	\$5,885
71	Menominee	\$5,826
72	Pepin	\$5,000

Most Complex Model – Tiered funding

1	Dane	25,000
2	Marathon	25,000
3	Waukesha	25,000
4	Chippewa	25,000
5	Ashland	25,000
6	Sawyer	25,000
7	Price	25,000
8	Marinette	25,000
9	Dodge	25,000
10	Polk	25,000
11	Oconto	25,000
12	Walworth	25,000
13	Winnebago	25,000
14	Waupaca	25,000
15	Portage	25,000
16	Douglas	25,000
17	Outagamie	25,000
18	Columbia	25,000
19	Milwaukee	25,000
20	Wood	25,000

21	Fond du Lac	15,000
22	Jefferson	15,000
23	La Crosse	15,000
24	Vilas	15,000
25	Rock	15,000
26	Rusk	15,000
27	Shawano	15,000
28	Iron	15,000
29	Washburn	15,000
30	Barron	15,000
31	Eau Claire	15,000
32	Burnett	15,000
33	St Croix	15,000
34	Dunn	15,000
35	Brown	15,000
36	Washington	15,000
37	Bayfield	15,000
38	Lincoln	15,000
39	Racine	15,000
40	Juneau	15,000
41	Clark	15,000
42	Oneida	15,000
43	Sheboygan	15,000
44	Langlade	15,000
45	Grant	15,000
46	Green	15,000
47	Sauk	15,000
48	Taylor	15,000
49	Jackson	15,000
50	Vernon	15,000
51	Kenosha	15,000

52	Forest	5,000
53	Marquette	5,000
54	Monroe	5,000
55	Calumet	5,000
56	Pierce	5,000
57	Iowa	5,000
58	Trempealeau	5,000
59	Crawford	5,000
60	Adams	5,000
61	Florence	5,000
62	Ozaukee	5,000
63	Richland	5,000
64	Lafayette	5,000
65	Manitowoc	5,000
66	Kewaunee	5,000
67	Waushara	5,000
68	Buffalo	5,000
69	Green Lake	5,000
70	Door	5,000
71	Menominee	5,000
72	Pepin	5,000

- Next steps, possible revisions
 - Add a visitor spending layer
 - Add coastal layer
 - QA/QC
- Explore variable weights
- Explore more complex allocation formulas

Questions?

- How do these different scenarios make you feel?
- Parity vs disparity for funding amounts?
- Continuous allocations vs funding levels?
- What would you all like to see next?