

Appendix N

National Hydrography Requirements and Benefits Study

Level of Integration between Hydrography and Other Datasets

Land Cover

Land Cover Importance	Number of MCAs	Percent of Total MCAs
Required	197	46.90%
Highly Desirable	126	30.00%
Nice to Have	70	16.67%
Not Required	24	5.71%
Null	3	0.71%
	420	100.00%

Land Cover Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	300	71.43%
Associate Selected Data Type	38	9.05%
Visual Inspection	56	13.33%
None	23	5.48%
Null	3	0.71%
	420	100.00%

Soils

Soils Importance	Number of MCAs	Percent of Total MCAs
Required	156	37.14%
Highly Desirable	124	29.52%
Nice to Have	91	21.67%
Not Required	46	10.95%
Null	3	0.71%
	420	100.00%

Soils Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	243	57.86%
Associate Selected Data Type	67	15.95%
Visual Inspection	62	14.76%
None	45	10.71%
Null	3	0.71%
	420	100.00%

Geology

Geology Importance	Number of MCAs	Percent of Total MCAs
Required	92	21.90%
Highly Desirable	107	25.48%
Nice to Have	145	34.52%
Not Required	73	17.38%
Null	3	0.71%
	420	100.00%

Geology Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	172	40.95%
Associate Selected Data Type	72	17.14%
Visual Inspection	99	23.57%
None	74	17.62%
Null	3	0.71%
	420	100.00%

Bathymetry

Bathymetry Importance	Number of MCAs	Percent of Total MCAs
Required	83	19.76%
Highly Desirable	119	28.33%
Nice to Have	112	26.67%
Not Required	102	24.29%
Null	4	0.95%
	420	100.00%

Bathymetry Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	183	43.57%
Associate Selected Data Type	49	11.67%
Visual Inspection	80	19.05%
None	104	24.76%
Null	4	0.95%
	420	100.00%

Climate

Climate Importance	Number of MCAs	Percent of Total MCAs
Required	79	18.81%
Highly Desirable	81	19.29%
Nice to Have	148	35.24%
Not Required	107	25.48%
Null	5	1.19%
	420	100.00%

Climate Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	148	35.24%
Associate Selected Data Type	75	17.86%
Visual Inspection	80	19.05%
None	112	26.67%
Null	5	1.19%
	420	100.00%

Contaminants

Contaminants Importance	Number of MCAs	Percent of Total MCAs
Required	79	18.81%
Highly Desirable	118	28.10%
Nice to Have	107	25.48%
Not Required	113	26.90%
Null	3	0.71%
	420	100.00%

Contaminants Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	165	39.29%
Associate Selected Data Type	77	18.33%
Visual Inspection	59	14.05%
None	116	27.62%
Null	3	0.71%
	420	100.00%

Elevation

Elevation Importance	Number of MCAs	Percent of Total MCAs
Required	274	65.24%
Highly Desirable	95	22.62%
Nice to Have	34	8.10%
Not Required	15	3.57%
Null	2	0.48%
	420	100.00%

Elevation Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	318	75.71%
Associate Selected Data Type	39	9.29%
Visual Inspection	42	10.00%
None	19	4.52%
Null	2	0.48%
	420	100.00%

Stream Flow

Stream Flow Importance	Number of MCAs	Percent of Total MCAs
Required	231	55.00%
Highly Desirable	124	29.52%
Nice to Have	43	10.24%
Not Required	19	4.52%
Null	3	0.71%
	420	100.00%

Stream Flow Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	267	63.57%
Associate Selected Data Type	89	21.19%
Visual Inspection	39	9.29%
None	22	5.24%
Null	3	0.71%
	420	100.00%

Wetlands

Wetlands Importance	Number of MCAs	Percent of Total MCAs
Required	169	40.24%
Highly Desirable	140	33.33%
Nice to Have	77	18.33%
Not Required	32	7.62%
Null	2	0.48%
	420	100.00%

Wetlands Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	225	53.57%
Associate Selected Data Type	80	19.05%
Visual Inspection	81	19.29%
None	32	7.62%
Null	2	0.48%
	420	100.00%

Census

Census Importance	Number of MCAs	Percent of Total MCAs
Required	50	11.90%
Highly Desirable	79	18.81%
Nice to Have	157	37.38%
Not Required	130	30.95%
Null	4	0.95%
	420	100.00%

Census Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	148	35.24%
Associate Selected Data Type	71	16.90%
Visual Inspection	72	17.14%
None	125	29.76%
Null	4	0.95%
	420	100.00%

Aquifers

Aquifers Importance	Number of MCAs	Percent of Total MCAs
Required	89	21.19%
Highly Desirable	109	25.95%
Nice to Have	112	26.67%
Not Required	106	25.24%
Null	4	0.95%
	420	100.00%

Aquifers Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	151	35.95%
Associate Selected Data Type	87	20.71%
Visual Inspection	76	18.10%
None	102	24.29%
Null	4	0.95%
	420	100.00%

Point Discharges

Point Discharges Importance	Number of MCAs	Percent of Total MCAs
Required	139	33.10%
Highly Desirable	130	30.95%
Nice to Have	86	20.48%
Not Required	63	15.00%
Null	2	0.48%
	420	100.00%

Point Discharges Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	183	43.57%
Associate Selected Data Type	102	24.29%
Visual Inspection	68	16.19%
None	65	15.48%
Null	2	0.48%
	420	100.00%

Water Use: Diversions

Water Use: Diversions Importance	Number of MCAs	Percent of Total MCAs
Required	126	30.00%
Highly Desirable	135	32.14%
Nice to Have	104	24.76%
Not Required	53	12.62%
Null	2	0.48%
	420	100.00%

Water Use: Diversions Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	180	42.86%
Associate Selected Data Type	99	23.57%
Visual Inspection	83	19.76%
None	56	13.33%
Null	2	0.48%
	420	100.00%

National Point Discharge Elimination System (NPDES)

NPDES Importance	Number of MCAs	Percent of Total MCAs
Required	99	23.57%
Highly Desirable	106	25.24%
Nice to Have	99	23.57%
Not Required	112	26.67%
Null	4	0.95%
	420	100.00%

NPDES Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	155	36.90%
Associate Selected Data Type	92	21.90%
Visual Inspection	52	12.38%
None	117	27.86%
Null	4	0.95%
	420	100.00%

Storage and Retrieval (STORET)

STORET Importance	Number of MCAs	Percent of Total MCAs
Required	55	13.10%
Highly Desirable	116	27.62%
Nice to Have	104	24.76%
Not Required	141	33.57%
Null	4	0.95%
	420	100.00%

STORET Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	116	27.62%
Associate Selected Data Type	103	24.52%
Visual Inspection	56	13.33%
None	141	33.57%
Null	4	0.95%
	420	100.00%

National Inventory of Dams (NID)

NID Importance	Number of MCAs	Percent of Total MCAs
Required	107	25.48%
Highly Desirable	139	33.10%
Nice to Have	102	24.29%
Not Required	69	16.43%
Null	3	0.71%
	420	100.00%

NID Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	152	36.19%
Associate Selected Data Type	98	23.33%
Visual Inspection	96	22.86%
None	71	16.90%
Null	3	0.71%
	420	100.00%

National Agricultural Statistics Service (NASS)

NASS Importance	Number of MCAs	Percent of Total MCAs
Required	39	9.29%
Highly Desirable	102	24.29%
Nice to Have	137	32.62%
Not Required	138	32.86%
Null	4	0.95%
	420	100.00%

NASS Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	106	25.24%
Associate Selected Data Type	86	20.48%
Visual Inspection	84	20.00%
None	140	33.33%
Null	4	0.95%
	420	100.00%

National Wetlands Inventory (NWI)

NWI Importance	Number of MCAs	Percent of Total MCAs
Required	117	27.86%
Highly Desirable	136	32.38%
Nice to Have	117	27.86%
Not Required	48	11.43%
Null	2	0.48%
	420	100.00%

NWI Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	201	47.86%
Associate Selected Data Type	71	16.90%
Visual Inspection	95	22.62%
None	51	12.14%
Null	2	0.48%
	420	100.00%

National Water Information System (NWIS)

NWIS Importance	Number of MCAs	Percent of Total MCAs
Required	124	29.52%
Highly Desirable	119	28.33%
Nice to Have	121	28.81%
Not Required	52	12.38%
Null	4	0.95%
	420	100.00%

NWIS Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	160	38.10%
Associate Selected Data Type	113	26.90%
Visual Inspection	83	19.76%
None	60	14.29%
Null	4	0.95%
	420	100.00%

National Water Quality Assessment (NAWQA)

NAWQA Importance	Number of MCAs	Percent of Total MCAs
Required	62	14.76%
Highly Desirable	125	29.76%
Nice to Have	127	30.24%
Not Required	102	24.29%
Null	4	0.95%
	420	100.00%

NAWQA Highest level of Analysis Required	Number of MCAs	Percent of Total MCAs
Perform Geospatial Analysis	121	28.81%
Associate Selected Data Type	115	27.38%
Visual Inspection	69	16.43%
None	111	26.43%
Null	4	0.95%
	420	100.00%