



Keweenaw Bay Indian Community Wildlife Management and Monitoring



PART II

<http://nrd.kbic-nsn.gov>



Plant/Habitat Summary

Habitat Types	Sites	Total Days	Camera Days WS	Camera Days SF	Average Camera Days
Riparian	14	1646	795	866	117.5714
Upland Mixed	16	1969	991	978	123.06
Upland Hardwood	11	1192	486	706	108.36
Aspen Regeneration	5	711	349	362	142.2
Young Pine Plantation	2	250	142	108	125
Mature Pine Plantation	2	187	60	127	93.5

Totals 50 5955 2823 3147

Canopy Species (25 total) Avg 5.5 spp per site (+/- 2.2 sd)	
Abies balsamea	balsam fir
Acer rubrum	red maple
Acer saccharum	sugar maple
Acer sp.	maple
Betula alleghaniensis	yellow birch
Betula papyrifera	paper birch
Fraxinus nigra	black ash
Fraxinus pennsylvanica	green ash
Fraxinus sp.	ash
Ostrya virginiana	ironwood
Picea glauca	white spruce
Picea sp.	spruce
Pinus banksiana	jack pine
Pinus resinosa	red pine
Pinus strobus	white pine
Populus balsamifera	balsam poplar
Populus grandidentata	big-toothed aspen
Populus tremuloides	trembling aspen
Prunus serotina	black cherry
Prunus sp.	cherry
Quercus rubra	red oak
Thuja occidentalis	northern white cedar
Tilia americana	basswood
Tsuga canadensis	hemlock
Ulmus americana	American elm

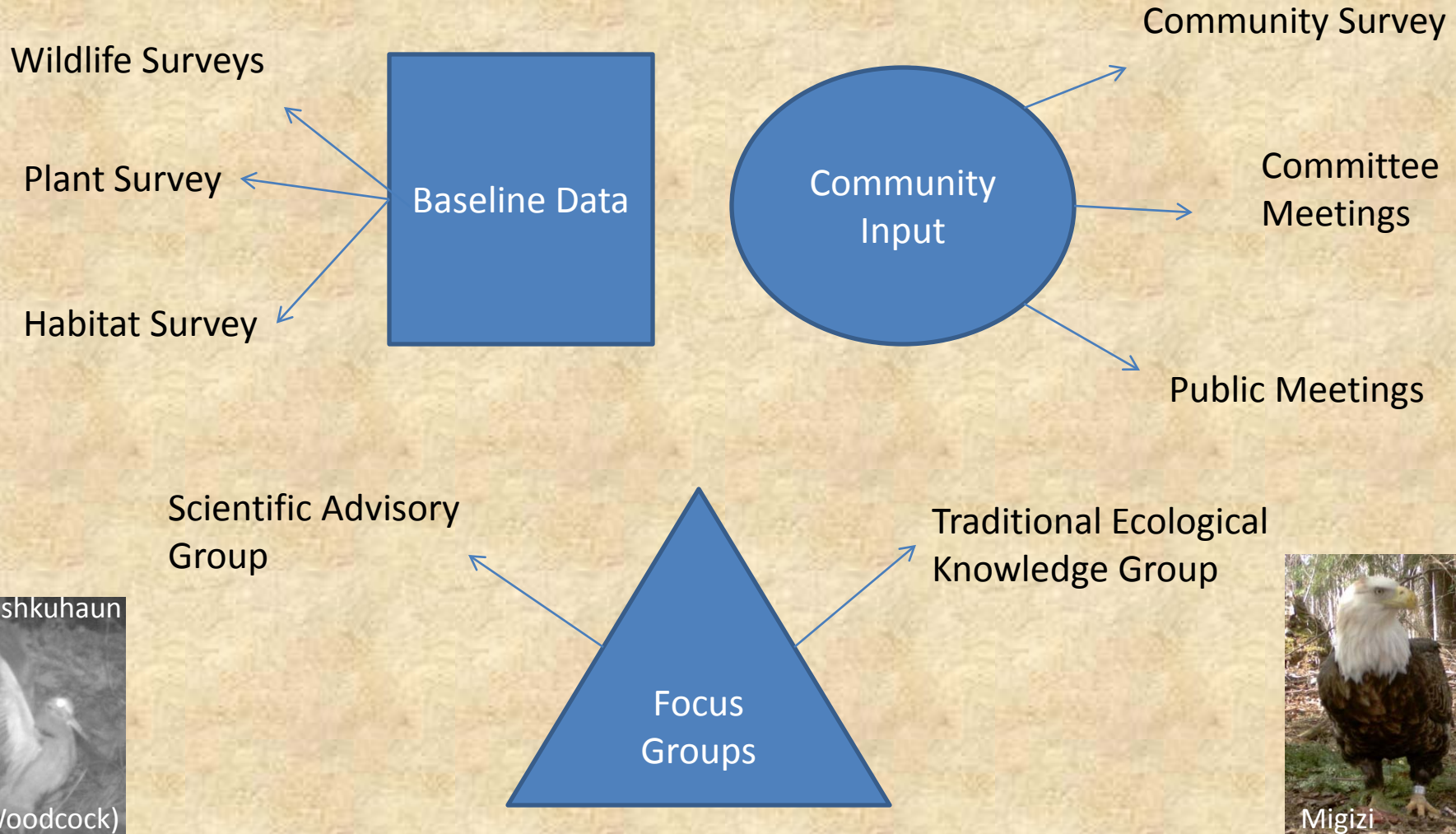


224 Herbaceous species
25 Canopy and sub-canopy species

Invasive species of plants detected at Upland/Riparian study sites (n=50) in 2010-2011

Scientific Name	Common Name	No. Sites Detected
VERONICA OFFICINALIS	common speedwell	26
TARAXACUM OFFICINALE	dandelion	18
CIRSIIUM PALUSTRE	marsh-thistle	11
GALEOPSIS TETRAHIT	common hemp nettle	10
RANUNCULUS ACRIS	common buttercup	9
EPIPACTIS HELLEBORINE	helleborine	6
HYPOCHAERIS RADICATA	spotted cat's-ear	5
LEUCANTHEMUM VULGARE (=CHRYSANTHEMUM LEUCANTHEMUM)	ox-eye daisy	5
RUMEX SP.	dock	5
probably CIRSIIUM PALUSTRE	marsh-thistle	4
HIERACIUM AURANTIACUM	orange hawkweed	4
Phalaris arundinacea or PHALARIS ARUNDINACEA	reed canary grass	3
RUMEX ACETOSELLA	sheep sorrel	3
ARCTIUM MINUS	common burdock	2
MYOSOTIS SP.	forget-me-not	2
PLANTAGO SP.	plantain	2
VERBASCUM THAPSUS	mullein	2
ANTHOXANTHUM ODORATUM	sweet vernal grass	1
CENTAUREA STOEBE	spotted knapweed	1
DACTYLIS GLOMERATA	orchard grass	1
HYPERICUM PERFORATUM	common St. John's-wort	1
MYOSOTIS SYLVATICA	garden forget-me-not	1
RUMEX OBTUSIFOLIUS	bitter dock	1
SOLANUM DULCAMARA	bittersweet nightshade	1
TANACETUM VULGARE	common tansy	1
TRIFOLIUM PRATENSE	red clover	1
TRIFOLIUM SP.	clover	1
Veronica or VERONICA sp.	speedwell	1

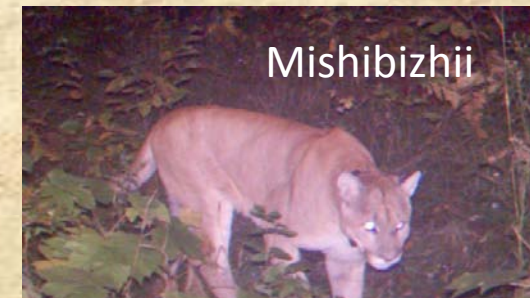
Management Plan Development





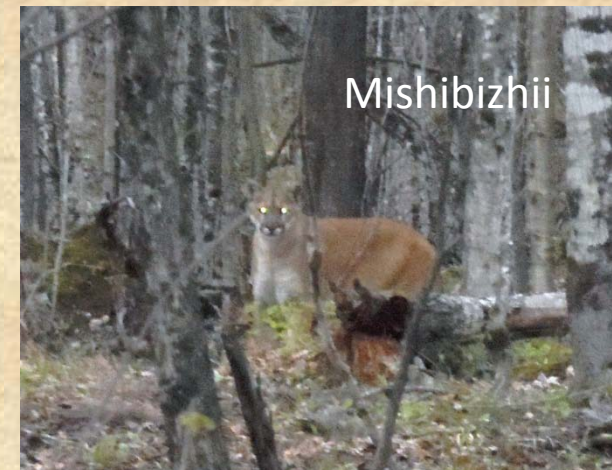
Community Survey

- A) Use and reliance of various natural resources,
- B) Values and management options for specific wildlife species,
- C) Culture and Ojibwa-based values and opinions about KBIC Natural Resource Policies





Cougar Question	% Disagree	% Agree	% No Opinion
I like the possibility that cougars live in the surrounding forests of the Upper Peninsula	31.5 (83)	50 (132)	18.5 (49)
I would be afraid to go into the forest if I knew a cougar was in the area	36.4 (96)	49.2 (130)	14.4 (38)
I believe cougars are currently living and reproducing in the Upper Peninsula of Michigan	1.5 (4)	81.8 (216)	16.3 (43)
I have seen a cougar in my local area	40.1 (106)	28.8 (76)	31.1 (82)
I believe that cougars do not reside in the Upper Peninsula but only pass through on a rare occasion	62.5 (165)	11.7 (31)	25.8 (68)





Wolf Questions	% Disagree	% Agree	% No Opinion
Like knowing they live here	22.0 (58)*	66.3 (175)	11.7 (31)
Relationship with Ojibwa	9.8 (26)	66.3 (175)	23.9 (63)
Familiar with creation story	7.2 (19)	77.3 (204)	15.5 (41)
Important role in ecosystem	15.5 (41)	71.2 (188)	13.3 (35)
Negative impact WTD	31.1 (82)	44.7 (118)	24.2 (64)
Sport hunt as game animal	39.9 (105)	37.3 (98)	22.8 (60)
Kill if human threat	20.5 (54)	70.3 (185)	9.1 (24)
KBIC wolf sanctuary	38.0 (100)	39.9 (105)	22.1 (58)

N=264 *(Number of respondents)



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Committees, Departments & Public Sharing

- Results of Wildlife Survey
- Results of Community Survey
- Draft Wildlife Management Plan

- NRD Website

[Http://nrd.kbic-nsn.gov](http://nrd.kbic-nsn.gov)

- Newsletters



Waagoosh



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Focus Groups

Scientific Advisory Group

- MI Dept. Natural Resources
- Great Lakes Indian Fish and Wildlife Commission
- U.S. Forest Service
- Turkey Federation
- Other Tribes

Traditional Ecological Knowledge Group

- KBIC Tribal Seniors
- Tribal Council Member
- Community Members



Management Plan

- Determine coyote population
- Monitor moose population
- Monitor wolf population
- Evaluate overlap between pine marten and fisher
- Monitor bats
- Survey for wood turtles
- Monitor game birds
- Monitor Cougar sightings
- Prescribed burn
- Monitor wildlife health
- Annual or Semi-Annual spring bird counts
- Preserve and/or enhance winter deer habitat
- Preserve and connect riparian corridors
- Enhance turkey habitat
- Continue to enhance waterfowl habitat
- Evaluate snow shoe hare population and habitat use



All of this!?



Acknowledgements

- ANA
- KBIC Natural Resource Dept
- KBIC Tribal Council
- Bureau of Indian Affairs
- Little River Band
- Great Lakes Indian Fish and Wildlife Commission
- U.S. Forest Service
- U.S. Fish and Wildlife Service
- Sault Tribe
- Isle Royale National Park
- Michigan Dept. of Natural Resources
- Grand Valley University
- Michigan Tech University
- Janet Marr, Botanist
- South Dakota State University
- Bad River
- Lac Vieu Desert
- University of Minnesota
- USDA APHIS
- University WI Stevens Point

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Deer eating meat scraps





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Questions?

pnankervis@kbic-nsn.gov; 906-524-5757 x19