Isaac Homestead Wildlife Management Area

2004 Small Mammal Trapping and Species Inventory Report

Montana Fish, Wildlife, and Parks (MFWP)
Steve Carson, Adam Messer, Andrew Jakes, Ryan Rauscher

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Isaac Homestead Wildlife Management Area (WMA) is a 1,168 acre piece of property located along the Yellowstone River about 7 miles west of Hysham, MT in Treasure County. This area of Montana is primarily agricultural, and about 195 acres within the WMA are irrigated cropland. Much of the remaining land area is grazed on a rest and rotation system. Vegetation consists of cereal grains and hay on the farmed parcels, with cottonwood, aspen, and shrub understory along the river bottom. Both big game and bird hunting is allowed on the WMA, and fishing, boating, and swimming are possible on the Yellowstone River.

Findings: 116 Captures of 12 Species

- Small Mammal Trapping Lines (Table 2):
  -112 Captures of 11 Species
- Funnel (Table 4)
  -1 Capture of 1 Species
- Large Fox Cage (Table 4)
  -0 Captures
- Netsite (Table 4)
  -0 Captures
- Camera (Table 4)
  -3 Captures of 1 Species

Table 1. Trap Location and Habitat Type

Location #	Name	Habitat
1	Line1	Grassland/DNC
2	Line2	Pond Riparian
3	Line3	Cottonwood Forest
4	Line4	Cottonwood Forest
5	Line5	Riparian
6	Line6	Grassland
7	Line7	Sagebrush
8	Line8	Sagebrush
9	Funnel1	Pond Riparian
10	Fox1	Cottonwood Forest
11	Fox2	Grassland
12	Camera1	Riparian
13	Netsite1	Riverine Riparian

Meadow Vole Photo: Kristi DuBois

House Wren Photo: Kristi Dubois

White-Tailed Deer Photo: Steve Carson

Table 2. Captures Summary

	Traplines								Funnel	Large Cage	Netsite	Camera	
Species Captured	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**1**	**1,2**	**1**	**1**	Total
Woodhouse's Toad					1								1
Northern Leopard Frog					1				1				2
House Wren			1										1
Vesper Sparrow								2					2
Western Harvest Mouse	1					1							2
Deer Mouse	7	17	15	6	13	2	9	15					84
Bushy-Tailed Woodrat								4					4
Meadow Vole	1	2			9								12
House Mouse		1											1
White-Tailed Deer												3	3
Unknown Bird					1								1
Unknown Shrew	1	1			1								3
Total Captures	10	21	16	6	26	3	9	21	1	0	0	3	116

Table 3. Traplines Summary

Trap Type	Trapline 1	2	3	4	5	6	7	8	Total Trap Nights	Captures	Captures /100 Trap Nights	Number of Species
Snap, small (victor)	48	49	46	48	46	46	50	49	382	17	4.5	2
Snap, med (museum special)	33	41	38	44	43	39	44	47	329	53	16.1	6
Snap, large (rat)	10	10	9	10	10	10	10	10	79	1	1.3	1
Cage, small (sherman)	50	50	50	50	50	46	48	49	393	30	7.6	4
Cage, med (skunk)	10	10	10	9	9	10	10	10	78	0	0	0
Pitfall	25	25	25	25	25	25	25	25	200	11	5.5	7
Total Trap Nights	176	185	178	186	183	176	187	190	1461			
Total Captures	10	21	16	6	26	3	9	21	112			
Captures/100 Trap Nights	5.7	11.4	9.0	3.2	14	1.7	4.8	11.1	7.7			
Number of Species	4	4	2	1	6	2	1	3				

Table 4. Trapsites Summary

	Trap Nights	Captures	Captures/100 Trap Nights	Number of Species
Mistnet	3	0	0	0
Cage, large	6	0	0	0
Funnel Trap	5	1	20	1
Camera	5	3	60	1

Table 5. Miscellaneous Species Observed

Great Plains Toad
Eared Grebe
Great Blue Heron
Mallard
Cooper's Hawk
Golden Eagle
American Kestrel
Ring-necked Pheasant
Sharp-tailed Grouse
Wild Turkey
Greater Yellowlegs
Barn Owl
Great Horned Owl
Common Nighthawk
Northern Flicker
Horned Lark
Loggerhead Shrike
Yellow Warbler
Spotted Towhee
Vesper Sparrow
Red Squirrel
Common Raccoon
White-tailed Deer

Great Plains Toad

Golden Eagle Photo: John Carlson

Raccoon Photo: Kenneth C. Walcheck

Photo Credits: MFWP staff unless otherwise noted.

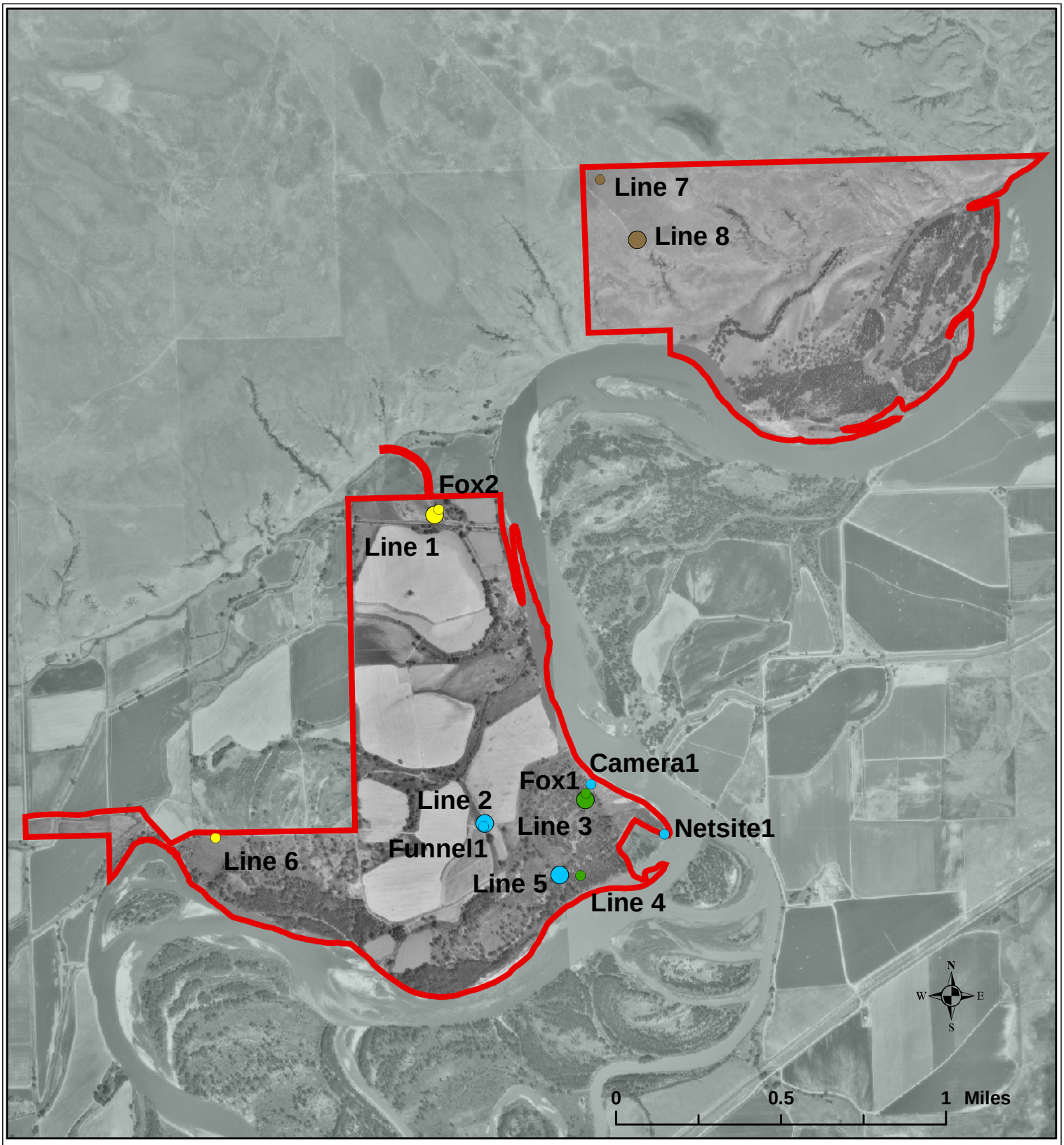
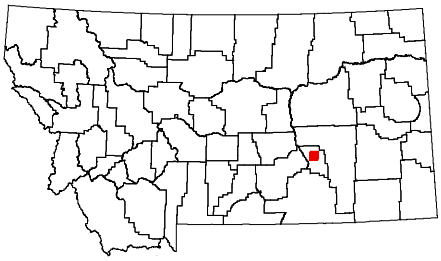


Figure 1:

Isaac Homestead WMA

Small Mammal Survey Site



Trapping Locations

General Landcover (Symbol color)

- Agriculture
- Barren / Badlands
- Broadleaf Forest
- Conifer Forest
- Grassland
- Riparian
- Shrub Grassland

* Not all landcover types were sampled at all sites.

Captures/100 trapnights (Symbol size)

* only calculated for trap lines

- 0 - 5
- >5 - 15
- >15

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12/2004 MAM W:\Wildlife\SWIG_PROJECTS\SmallMammalSurveys\Project_data