

Supplemental Table S1. Livestock grazing history at survey sites for the New Mexico meadow jumping mouse (*Zapus hudsonius luteus*) in the White Mountains, Apache and Greenlee counties, Arizona, 2008-2009.

Site designation ^a	County ^b	Management	Watershed	Site name	<i>Z. h. luteus</i> capture rate	Year livestock excluded by policy	Notes	Sign of livestock during survey
Historical sites								
5	A	Springerville RD	E Fork Little Colorado R	"Lee Valley Creek" Upper	0	1999		cattle feces
6	A	Springerville RD	E Fork Little Colorado R	E Fork Little Colorado R Upper	0	early 1990s	fences nonfunctional 2007-2008; elk exclosures built early 2009	abundant cattle feces
7	A	private	W Fork Black River	West Fork Black R Upper	0.71	2005		
8	A	Alpine RD	E Fork Black River	East Fork Black River	1.75	2001	incidental use during prior decade	
10	A	AZGF/Alpine RD	W Fork Black River	West Fork Black River Lower	1.00	1968		
11	A	AZGF/Alpine RD	W Fork Black River	West Fork Black River Middle	0.86	1968/2005	no grazing by choice since 1994	
13	A	Alpine RD	Black River	Centerfire Creek	1.00	2005	no grazing by choice since 1994	
14	A	Alpine RD	Black River	Boggy Creek	1.33	2005	no grazing by choice since 1994	horse feces
17	G	Alpine RD	Black River	Hannagan Creek Lower	0	1997		
18	A	Alpine RD	San Francisco River	"Talwiwi Creek" Upper	0	ca 1970s		
19	A	Alpine RD	San Francisco River	San Francisco River Lower	0	2001		
21	G	Alpine RD	Blue River	Campbell Blue Creek Lowermost	0	1997		
New survey sites								
A	A	AZGF	Little Colorado River	Little Colorado R Lower	0	1996		cattle feces
B	A	Springerville RD	Fish Creek	Fish Creek	0	grazed	cattle or sheep, rotated yearly	cattle present after survey

B	A	Springerville RD	Fish Creek	"West Fork" Fish Creek	0	grazed	cattle or sheep, rotated yearly	cattle feces
C	A	Springerville RD	Little Colorado River	Benny Creek	0	1999	appeared heavily used by elk	riding/pack horses
D	A	Springerville RD	Little Colorado River	Little Colorado River Upper	0	1999	no grazing by practice since ca 1990	
E	A	Springerville RD	E Fork Little Colorado R	E Fork Little Colorado R Lower	2.50	1999	no grazing by practice since ca 1990	
F	A	Springerville RD	E Fork Little Colorado R	"Lee Valley Creek" Lower	0	1999		
G	A	Springerville RD	W Fork Black River	"Spruce Creek"	0	2005		
H	A	Springerville RD	W Fork Black River	"Buckshot Creek"	0	2005		
I	A	Springerville RD	Nutriosio Creek	Rudd Creek Upper	0	1999		cattle feces
J	A	AZGF	Nutriosio Creek	Rudd Creek Lower	0	1994		
K	A	Alpine RD	Nutriosio Creek	Nutriosio Creek	1.07	2001	no grazing by practice since ca 1990	
L	A	Alpine RD	San Francisco River	San Francisco River Upper	2.00	2001		
M	A	Alpine RD	San Francisco River	"Talwiwi Creek" Lower	0.33	2001		
N	G	Alpine RD	Blue River	Campbell Blue Creek Upper	0	1997		
N	G	Alpine RD	Blue River	Campbell Blue Creek Uppermost	0	1997		
O	G	Alpine RD	Blue River	Campbell Blue Creek Lower	0	1997		
O	G	Alpine RD	Blue River	Campbell Blue Creek Middle	2.50	1997		
P	G	Alpine RD	Black River	Hannagan Creek Upper	0	1997		
Q	G	Alpine RD	Black River	Corduoy Creek	0.25	1999		
R	G	Alpine RD	Blue River	KP Creek	0	1997		
^a Historical locations are designated by numeral and new survey sites are designated by letter. Sites are mapped in Figure 1.								
^b A=Apache County; G=Greenlee County.								