Modeling Pygmy Rabbit Sites & Habitat



Background

Pygmy rabbits declining populations have made the species a candidate for classification under The Endangered Species Act.



There are no Federal protections in place at this time.

Habitat Characteristics and Range

Burrows are located in areas of sagebrush steppe of the Great Basin Desert.

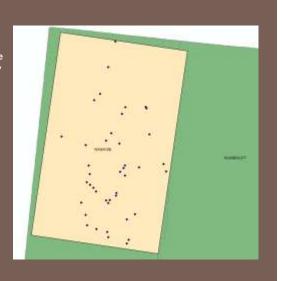
Fragmented pygmy rabbit populations are found in Washington, Oregon, Northern California, Nevada, Southern Idaho, Wyoming, and Utah.



Study Area

The study area comprises 1187 square miles located in Washoe county in NW Nevada.





Issues

Energy development and livestock grazing have contributed to habitat fragmentation





Objective 1

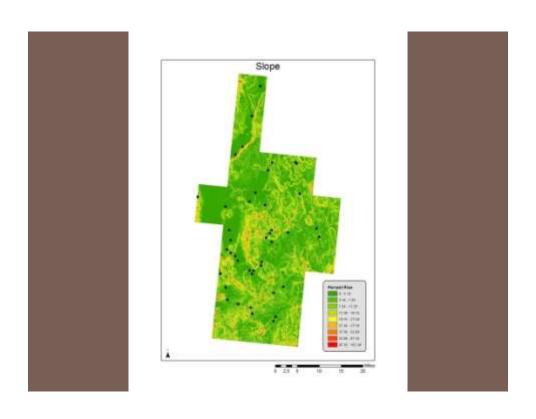
Prioritize 42 known pygmy rabbit burrows based on four criteria

Slope

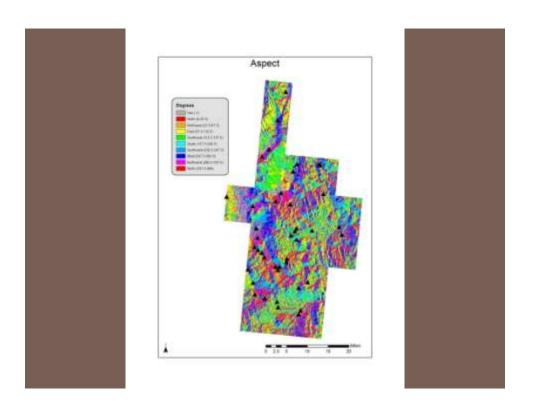
<u>Aspect</u>

Distance from perennial streams

Elevation



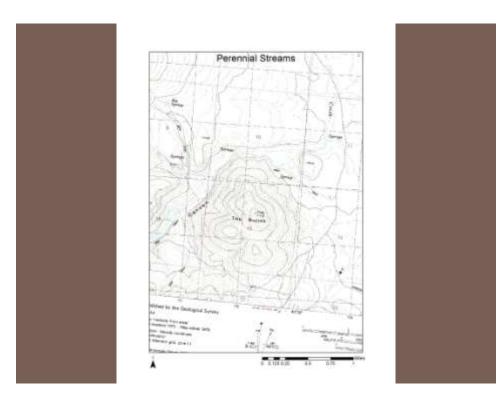
Aspect			
Rat	ing	Range	
5	More Ideal	0° to 36° and 326° to 360°	
4		36° to 72° and 288° to 326°	
3		72° to 108° and 252° to 288°	
2		108° to 144° and 216° to 252°	
1	Less Ideal	144° to 180° and 180° to 216°	
250° 258° 258° 258° 258° 258° 258° 258° 258			



Distance to Perennial Streams

- Mean 8784 meters
- Close is optimal

Rating		Range	
5	More Ideal	0 to 8784 meters	
4		8784 to 13176 meters	
3		13176 to 17568 meters	
2		17568 to 21960 meters	
1	Less Ideal	> 21960 meters	



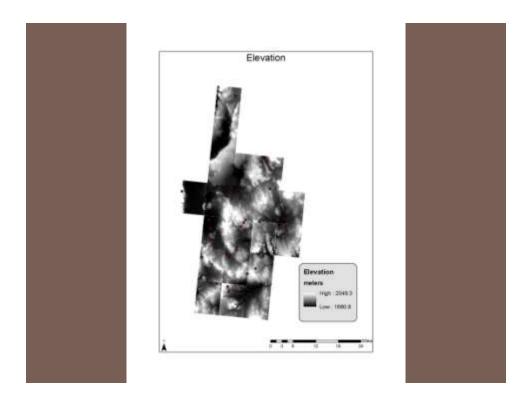


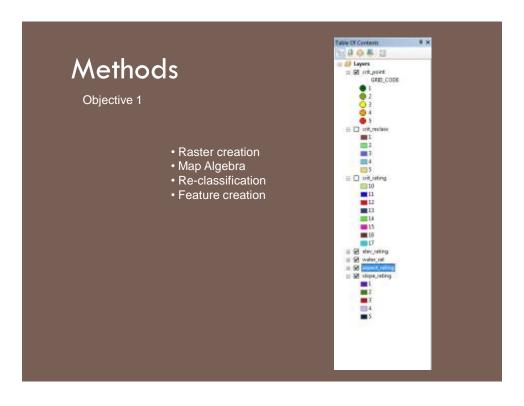


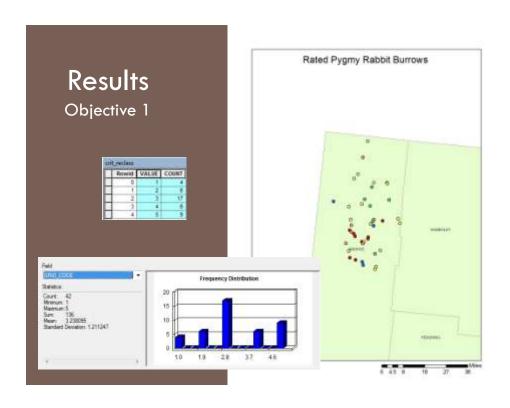
Elevation

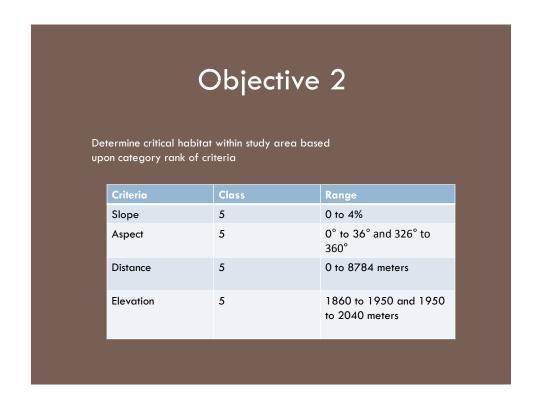
- Found within an elevation of 1500 to 2400 meters
- Mean of 1950 meters

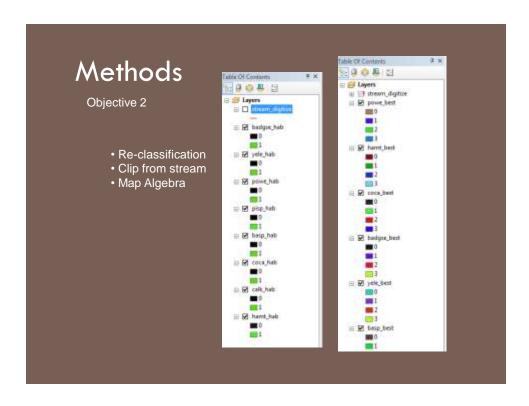
Rating	Range	
5 More Ideal	1860 to 1950 and 1950 to 2040 meters	
4	1770 to 1860 and 2040 to 2130 meters	
3	1680 to 1770 and 2130 to 2220 meters	
2	1590 to 1680 and 2220 to 2310 meters	
1 Less Ideal	1500 to 1590 and 2310 to 2400 meters	

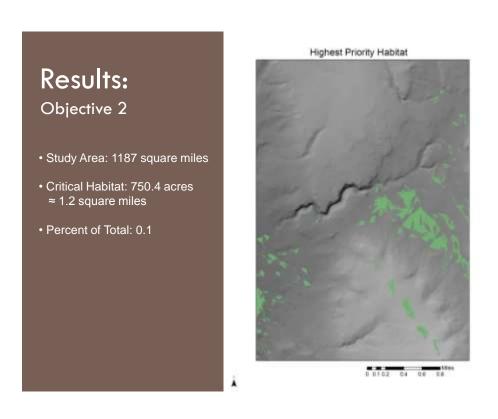












Conclusion

Objective 1 and 2 separate goals

Objective 1: majority of sites on marginal habitat land

Objective 2: small amount of of high quality land to conserve

