

map depicts elk distribution utilizing data collected by the FWP:



variety of different habitats, some of which are more suitable for elk than influential factors were considered.

and burnt forests. These habitats were isolated from a land cover layer and elk distribution area. In this analysis, more suitable areas represent more masked to the distribution area.

masked to the distribution area. *Figure 4* represents urban and developed areas. It features a layer of Montana towns and the largest twelve by masked to the distribution area. Research suggests elk also avoid roads, notably open highways. A layer of highways in Montana was derived from a on the highways. *Figure 6* shows the results.

presented in the conclusion.

Suitability Analysis for Elk in Montana

Cartographer: Nathan Justice Date: December 2013 Projection: NAD 1983 StatePlane Montana FIPS 2500 Feet Data Source: Montana FWP. Montana GIS Portal. Montana Cadastral References: USDA NRCS, Montana FWP Field Guide



While this study includes many factors indicative of elk suitability, it is not an exclusive representation of their locations. Elk are a tolerant species, and their generalist nature makes them difficult to pin point. From this analysis we can determine areas elk are most likely to be found based on distance from preferred habitats, unsuitable habitats, human development, and highways (highlighted in the map above). This knowledge can help individuals locate regions that should be emphasized for hunting, wildlife watching, or conservation efforts.



