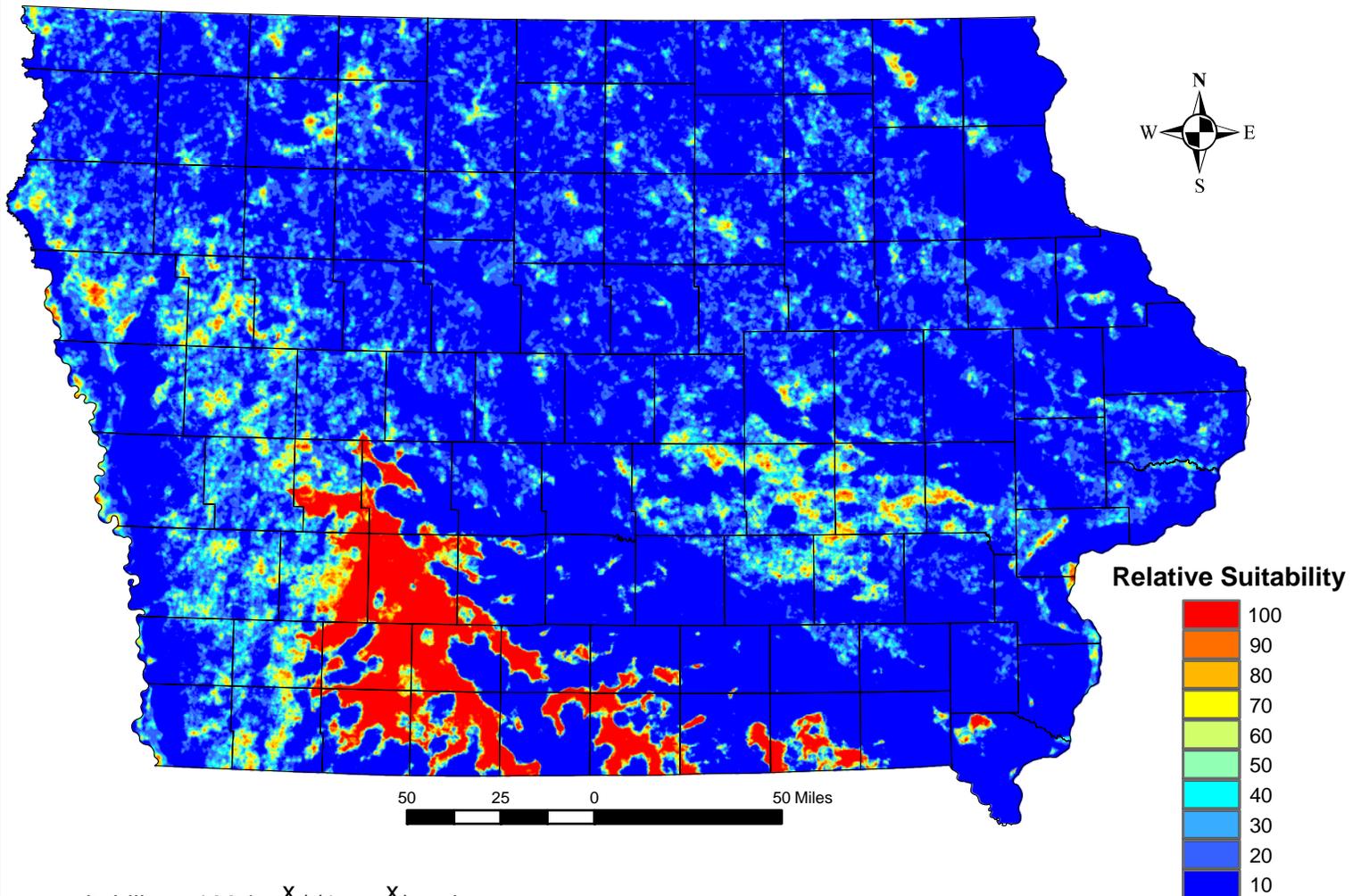


Predicted suitability of landscapes for Greater-prairie Chickens in Iowa



suitability = $100 * e^x / (1 + e^x)$, where

$$x = -.7177 + .054 * (\% \text{ grass}) - .524 * (\% \text{ trees}) - 1.52 * (\text{km of road}) + .017 * (\text{avg patch size}) + .465 * (\# \text{ patches}) + .0002 * (\text{minimum patch size}) + .0003 * (\text{distance (m) to trees}) - .0006 * (\text{dist to grass})$$

% grass, % trees, roads, and average grass patch size are based on a 2-miles radius;
the number of grass patches and minimum grass patch size are based on a 1/2 mile radius

Landscape suitability was mapped by applying a model developed for NW Minnesota to the 2001 NLCD for Iowa. Logistic regression was used to compare landscape characteristics between booming grounds and random sites.

*The above map depicts suitability based on the assumption that areas classified as hayland are equivalent to grassland habitat.



for further details please contact:

Diane Granfors
218-736-0665
diane_granfors@fws.gov
18965 County Hwy 82
Fergus Falls, MN 56537