

# Landscapes for *En Route* Shorebirds in Spring

Upland Sandpiper  
 Hudsonian Godwit  
 Dunlin  
 White-rumped Sandpiper

Most influential variables:  
 Percent palustrine wetlands  
 Proportion of temporary and seasonal wetlands  
 Average slope (negative)

Shorebird data were collected in the springs of 2002 and 2003. Landscape suitability was based on models of presence/absence. Models used four variables: percent grass, percent palustrine wetlands, proportion of palustrine wetlands that were temporary or seasonal, and average slope. Landscape size was a township (36 square miles). Landcover data are from TM satellite imagery from 1991 (North and South Dakota) and 2000-2001 (Minnesota and Iowa). Wetland data are from the National Wetlands Inventory.

Predicted Landscape Suitability

