

MAPS AND MODELS FOR BIRD CONSERVATION PLANNING

by Wayne E. Thogmartin¹, Melinda G. Knutson¹, John R. Sauer², Alisa L. Gallant³, Timothy J. Fox¹, John C. Nelson¹, Kevin Kenow¹, Jason Rohweder¹, Shawn Weick¹, and Manuel J. Suarez¹

¹ USGS Upper Midwest Environmental Sciences Center, ² USGS Patuxent Wildlife Research Center, ³ USGS Earth Resources Observation Systems Data Center

http://www.umesc.usgs.gov/terrestrial/migratory_birds/bird_conservation.html

Guiding Principles for Conservation Planning

- Examine impacts of local decisions in a regional context.
- Preserve rare landscape elements, critical habitats, and associated species.
- Implement land-use and -management practices that are compatible with the natural potential of the area.



Conservation and Land Acquisition Planning are activities commonly performed by Federal management agencies such as the Fish and Wildlife Service, National Park Service, Bureau of Land Management, and the USDA Forest Service. Planning teams need effective ways to incorporate and visualize the juxtaposition of habitat over large areas, species distributions, and species-habitat relations.



The Upper Midwest Environmental Sciences Center (UMESC) Conservation Planning Team has developed many solutions:

Ecological Principles for Managing Land Use, Ecological Society of America 2000