Waterfowl Monitoring on Pools 12, 13, and 14 of the Mississippi River

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Project Name: Waterfowl Surveys, Pools 12-14 Mississippi River
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Objectives:

1. Obtain the number (index) of waterfowl occurring in specified areas of Pools 12, 13, and 14 of the Upper Mississippi River on a weekly basis (9 flights) during the period of 8 October through 7 December 2007.

2. Survey results shall be provided to the Refuge Project Officer in weekly reports, utilizing electronic data sheets provided by the Service.

3. Provide the Service Project Officer with survey data sheets including: observer, location, date, weather conditions, numbers of all species of waterfowl and American coots observed (Additional data on numbers of white pelicans, double-crested cormorants, great blue herons, and bald eagles should also be provided as time permits).

Methods:

We conducted approximately-weekly inventories of wetland birds on Pools 12, 13, and 14 of the Upper Mississippi River using a fixed-wing, single-engine aircraft at altitudes of ~150 ft and speeds of ~175 mph with one observer and pilot (Havera 1999:186, Stafford et al. 2007). Aerial surveys were conducted between October 13 and December 2, 2008. We estimated avian abundance while flying ¼ mile transects (1/8 mile on each side of the transect line) at predetermined locations between Clinton and Dubuque, IA. All data were summarized and distributed electronically to the project officer within 24 hrs of flights.

Results:

We completed 7 of 9 (78%) aerial inventories of the specified areas of the Upper Mississippi River. Surveys were flown on Oct. 13, 28; Nov. 3, 10, 18, and 25; and December 2. We failed to conduct two inventories. The Oct. 21-24 flight was cancelled due to weather, and the last flight was cancelled (Dec 8-12) due to freeze-up.

We distributed weekly summaries of waterfowl numbers to the US Fish and Wildlife Service. We documented that the majority of waterfowl observed during surveys were concentrated on lower Pool 13 and upper and lower Spring Lake. We can only speculate on the distribution of waterfowl using these refuges, however, food availability and human disturbance are likely factors.
Literature Cited:


Submitted by:

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