

Midwest Region

Sleeping Bear Dunes National Lakeshore has completed resource management action plans for Manitou Islands deer and the exotic mute swan. The deer plan describes the history of white-tailed deer on the eastern Lake Michigan islands, the action of deer in altering the natural vegetation of North Manitou Island and objectives for managing the existing deer herd. The plan states the NPS, with the cooperation of the Michigan Department of Natural Resources, will annually assess the need to conduct a public recreation deer hunt to achieve deer population levels within the island's carrying capacity. The mute swan management plan describes the increasing mute swan population in the lakeshore and calls for continued study of the swan and its impact upon lakeshore visitors and wildlife. It also outlines procedures for controlling individual problem swans.

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The 22nd Annual Lake Superior Biological Conference was held Sept. 27-28, 1985 at Michigan Tech U., Houghton, Mich. Five of the 24 papers presented involved research in national park units on Lake Superior. Following are NPS papers and authors:

Pre- and post-logging fire regimes within Pictured Rocks National Lakeshore – Walter L. Loope, Resource Management Specialist. *Pictured Rocks: Lichens and air quality in Isle Royale National Park* – Clifford M. Wetmore, contract researcher, University of Minnesota; *Effects of atmospheric acid deposition on watershed/lake ecosystems of Isle Royale and Michigan's upper peninsula* – Robert Stottlemeyer, CPSU, Mich Tech U.; *Soil anion mobility in northern hardwood and boreal forested watershed ecosystems in the upper peninsula of Michigan* – Robert Stottlemeyer; *Wolves, moose, and vegetation in Isle Royale National Park* – Rolf O. Peterson, contract researcher, Mich. Tech.