

**Simard, Albert J. and Blank, Richard W. 1982. Fire history of a Michigan jack pine forest. Michigan Academician. 15(1):59-71.**

**Note:** The Mack Lake Fire (May 5, 1980), burned in mostly mature jack pine forest with scattered red pine throughout. Fire scars from red pine in eight different locations (groups of 2 to 3 trees) within the boundaries of the fire were analyzed for past fire interval. The mean group fire interval was 29 years with a range of 15.1 to 33.2 years. For the time periods associated with presettlement (1830-1849), settlement (1850-1909), early suppression (1910-1929), and recent (1930-1969), the mean fire intervals were estimated to be 27 years, 10 years, 18 years, 8 years and 31 years, respectively (There was only one fire scar to represent the presettlement interval thus, the interval may have been shorter.). The large fire interval (10,000+ acres) at Mack Lake was 27.5 years over the past 165 years. There are six probable large fires (1815, 1862, 1874, 1886, 1946, and 1980). There is a downward trend in large fire interval from 35 years (presettlement) to 27 years (settlement and early suppression) to 25 years (recent). The fire size-class distribution for the Huron-Manistee National Forest is typical with 98.7% of fires less than 100 acres in size. Seasonal distribution of area burned by jack pine crown fires from 1964 to 1975 from the 4 county area surrounding Huron National Forest can be summarized as follows: 1) Four times more area was burned during the second week of May than in any other week of the year. 2) There have been no crown fires during June and the first three weeks of July. 3) Throughout the remainder of the fire season, crown fires have occurred in about half of the weeks.

**Keywords:** Michigan/ National Forest, Huron-Manistee/ vt, pine barrens/ wildfire, historic/ fire, prescribed/ wildfire/ fire interval/ fire scar/ pine, jack/ pine, red.