



United States
Department of
Agriculture

Forest Service

Superior
National Forests

Superior National Forest

Fiscal Year 2007 Monitoring & Evaluation Report

July 2008



Annual Monitoring and Evaluation Report Superior National Forest



Cook, Lake, and St. Louis Counties, Minnesota

USDA Forest Service
Eastern Region
Milwaukee, Wisconsin
March 2008

For further information contact:

Bruce D. Anderson
Superior National Forest
8901 Grand Ave Place
Duluth, MN 55808
218-626-4327
bdanderson@fs.fed.us

TABLE OF CONTENTS

I. INTRODUCTION.....	1
II. MONITORING QUESTIONS AND DRIVERS.....	4
III. MONITORING AND EVALUATION	
Physical & biological resources	
- <i>AIR QUALITY AND SMOKE MGT.</i>	12
- <i>WATERSHED HEALTH, RIPARIAN, AND SOILS</i>	
1. Watershed Health	16
2. Soils	21
- <i>INSECTS, DISEASE, AND DISTURBANCE</i>	
1. Insects and Disease	24
2. Fire	29
- <i>TIMBER</i>	34
- <i>NON NATIVE INVASIVE SPECIES</i>	38
- <i>VEGETATION MANAGEMENT</i>	43
- <i>TERRESTRIAL AND AQUATIC WILDLIFE</i>	
1. Management Indicator Species and Habitats	
a. Aquatic MIS.....	47
b. Terrestrial MIS.....	51
c. Terrestrial MIH.....	60
2. Sensitive Species	
d. Plants.....	63
e. Fish/Other Aquatic Species	65
f. Terrestrial Species.....	68
3. Threatened and Endangered Species	71
- <i>MINERALS/GEOLOGY</i>	76
Social Resources	
- <i>SOCIAL AND ECONOMIC STABILTY</i>	80
- <i>TRIBAL RIGHTS AND INTEREST</i>	82
- <i>HERITAGE RESOURES</i>	86
- <i>RECREATIONAL MOTOR VEHICLES</i>	87
- <i>TRANSPORTATION SYSTEM</i>	91.
- <i>WILDERNESS</i>	94
- <i>LANDS</i>	102
- <i>PUBLIC HEALTH AND HAZARDOUS MATERIALS</i>	105
- <i>COOPERATION</i>	107
IV. LIST OF PREPARERS.....	111
V. LITERATURE CITED.....	112