



Early Successional Habitat Management on Eastern Region National Forests



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Map of the Eastern Region



Forest Lands

STATE	TOTAL LAND AREA (1,000 acres)	FOREST AREA (1,000 acres)	FOREST AREA	PRIVATE LAND FOREST (% of forest land)	PUBLIC LAND FOREST (% of forest land)	NATIONAL FOREST (% of forest land)
Indiana	22,980	4,656	20%	86%	14%	4%
Illinois	35,608	4,525	13%	85%	15%	6%
Michigan	36,275	19,545	54%	63%	37%	13%
Minnesota	51,024	16,391	32%	46%	54%	12%
Missouri	44,093	15,078	34%	83%	17%	10%
Ohio	26,207	7,894	30%	91%	9%	3%
Wisconsin	34,791	16,275	47%	69%	31%	9%

Map of the Eastern Region



Chequamegon-Nicolet National Forests

Early Successional type: *aspen/birch*

Average treatment per year/Forest Plan Objective:

- Aspen – forest plan projected 3,700 acres
- 27% less than projected, 2,700 acres (2011)



Golden-winged warbler

What contributes or detracts from success:

- Capacity for Stewardship contracting
- + Partners associated with North Central Wisconsin Young Forest Initiative



North central Wisconsin Young Forest Initiative



- ❖ Forest management for grouse and woodcock habitat
- ❖ Early successional forests and shade intolerant tree types
- ❖ Increasing age class diversity of aspen
- ❖ Assists private landowners
- ❖ Wisconsin DNR, WMI, RGS, NRCS, private landowners, Forest Service, AFWA, counties

Superior National Forest

- Increase jack pine
- Early Successional types: *aspen/birch and jack pine*
- Average treatment per year/Forest Plan Objective:
 - *Approximately 2,800 acres of regeneration harvest per year*
 - *Forest plan objective = 10% young forest*
 - *2012 conditions = 13% young forest*



Superior National Forest

- What contributes or detracts from success:

+ Partners include Deer Hunter Association, Minnesota DNR

- Timber industry response to low quality forest and economic value of wood

- Limited internal and external capacity for stewardship contracts



Ruffed grouse nests

Superior National Forest



- ❖ Forest Plan focus on young forest
- ❖ Moose habitat
- ❖ Seven grouse hunter walking trails
- ❖ Collaborative projects

Current early successional forest management focused on moose population management

Wayne National Forest

- Early Successional types
- Average treatment per year/Forest Plan Objective:



Oak Forest



Early successional shrub type

3-6% herbaceous/shrub habitat

8% of early successional even-aged hardwood forests (<10 years)

Wayne National Forest

- What contributes or detracts from success/effort:
 - + Partnership for a shared biologist
 - + Treatment of Tree of Heaven projects
 - + Treatment of open lands
 - Need \$ for Tree of Heaven treatments prior to cutting any forests
 - Updated forest vegetation data needed



Tree of Heaven –
invasive
species

Huron-Manistee National Forest

Early Successional types: aspen, jack pine, short-lived oaks, jack pine barrens, oak savannahs, forest openings

- Average treatment per year/Forest Plan guidance:
 - Aspen - 438 acres
 - Jack Pine – 1,629 acres
 - Short-lived Oak – 684 acres
 - Create barrens – 932 acres
 - 4-10% forest openings



Aspen Clearcut

Chestnut-sided warbler

Huron-Manistee National Forest

- What contributes to success:
 - Partners include Michigan Department of Natural Resources, Ruffed Grouse Society, National Wild Turkey Federation, Arbor Day Foundation, American Forests
 - Kirtland's warbler and Karner blue butterfly management
 - Ruffed Grouse Management areas
 - Markets for aspen and jack pine
 - Prescribed burning
 - Great Lakes Restoration Initiative



Karner blue butterfly habitat

Huron-Manistee National Forest

- What detracts from success:
 - Limited Capacity to plan and implement timber projects
 - Low value of jack pine and oak
 - Cost of follow up treatments; additional higher value timber, limits capacity for other early succession harvest



Jack Pine Regeneration



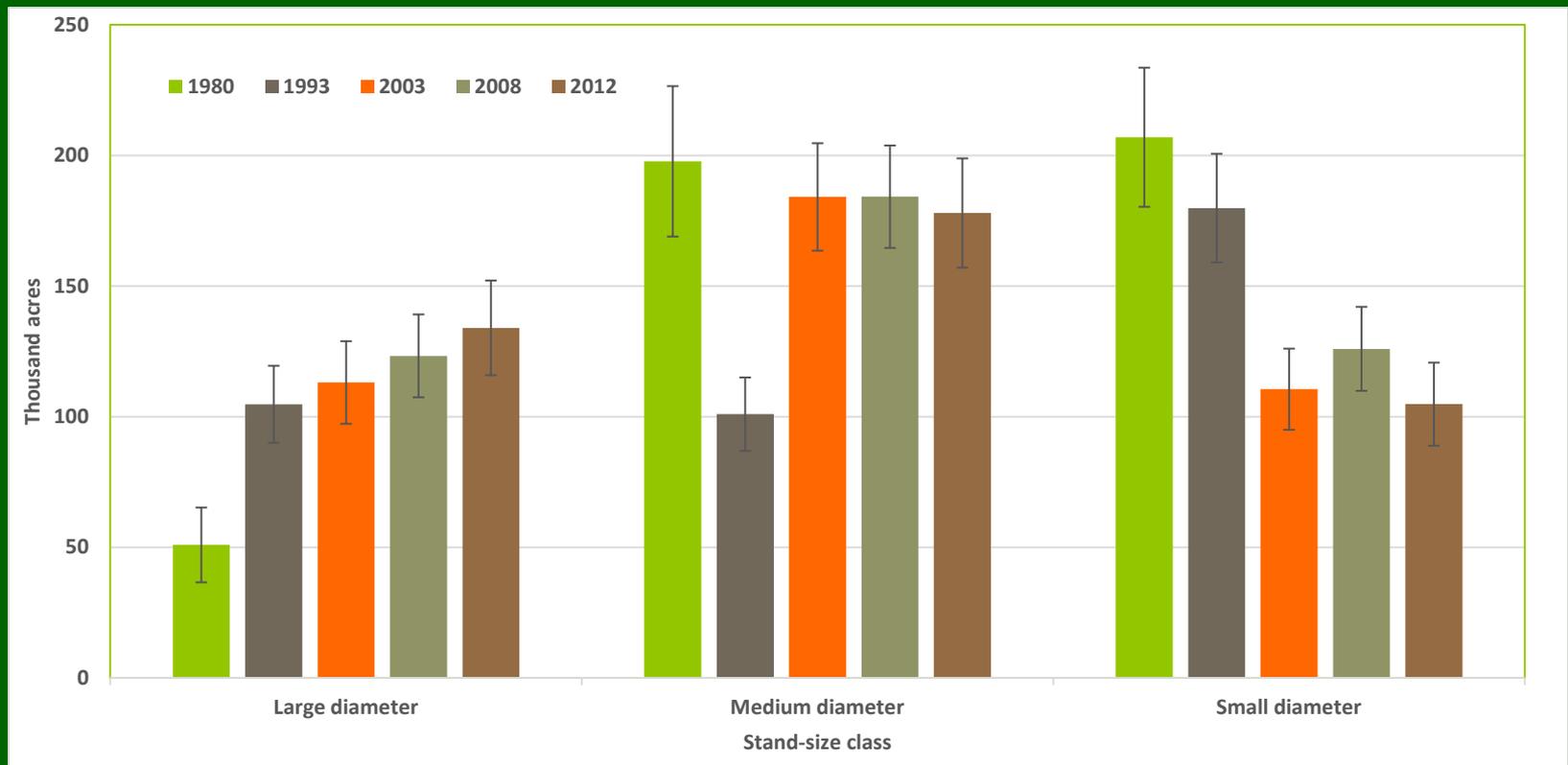
Huron-Manistee NF Early Successional



High Intensity Prescribed Fire

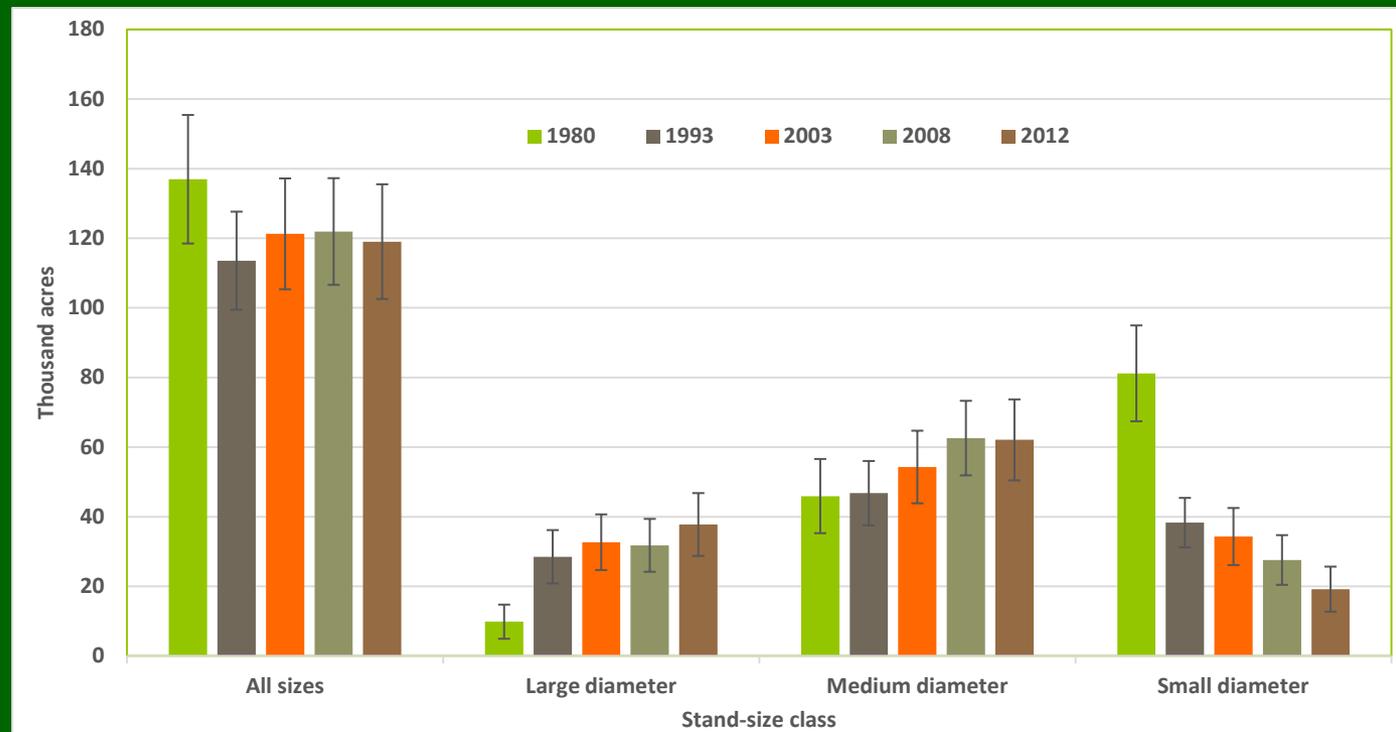
Michigan National Forest Trends

- Area of forest in aspen-birch group, by stand-size class, Michigan National Forests, 1980 to 2012 (error bars depict 1 standard deviation)



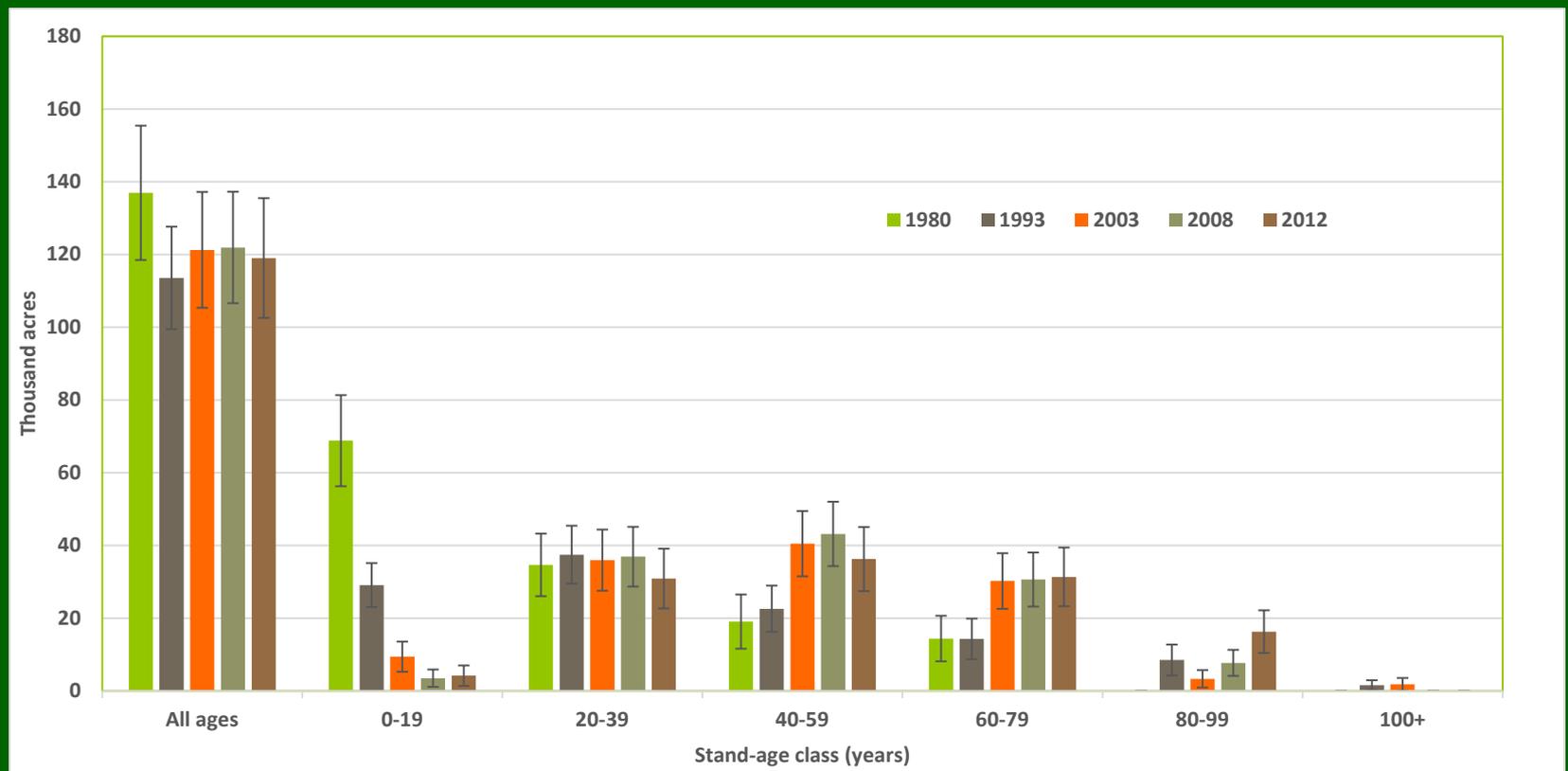
Huron-Manistee National Forest Trends

- *Area of forest in aspen forest type by stand-size class, Huron-Manistee National Forest, 1980 to 2012 (error bars depict 1 standard deviation)*



Huron-Manistee National Forest Trends

Area of forest in aspen forest type by stand-age class, Huron-Manistee National Forest, 1980 to 2012 (error bars depict 1 standard deviation)



Early Successional Habitat Management

