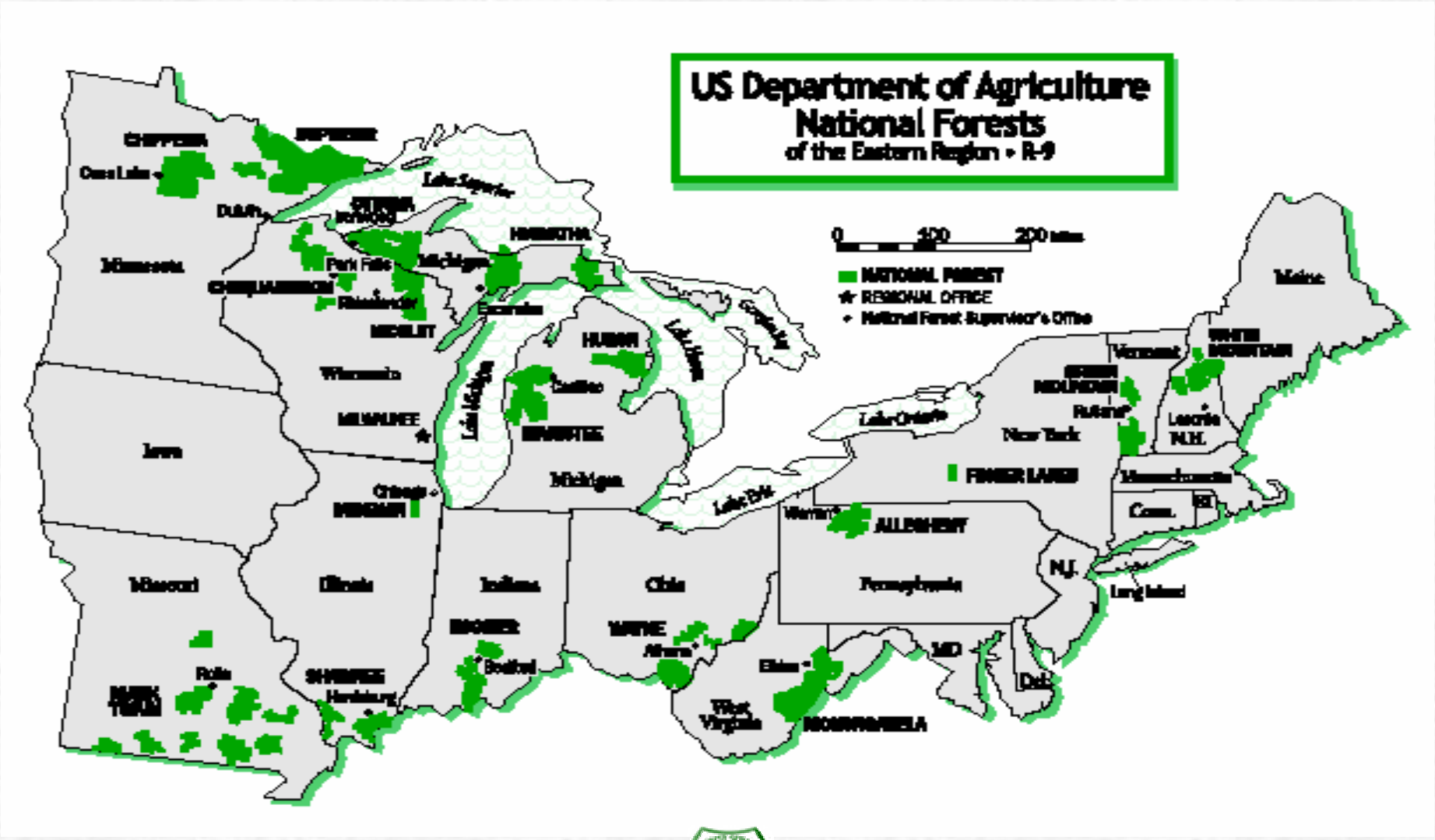
R9 Non-native Invasive Species Framework

R9 NNIS Steering Committee


US Department of Agriculture
National Forests
of the Eastern Region • R-9
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NATIONAL FOREST
REGIONAL OFFICE
National Forest Supervisor's Office
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Lake Superior
Lake Michigan
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Elkins
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Rutland
Laconia
Long Island
Cass Lake
CHIPPEWA
SUPERIOR
OTTAWA
HIAWATHA
CHEQUAMEGON
MIDDLE
HURON
MILWAUKEE
MANISTEE
SHAWNEE
WAYNE
ALLEGHENY
FINGER LAKES
GREEN MOUNTAIN
WHITE MOUNTAIN
MONONGAHELA

Non-native Invasive Species

- "Plant or animal, including its seeds, eggs, spores or other biological material that is non-native to the ecosystem…likely to cause economic and environmental harm"

Executive Order 13112

Framework Purpose

"Provide an interdisciplinary framework to implement NNIS management programs on Eastern Region National Forests"

R9 Framework tiers off existing direction…

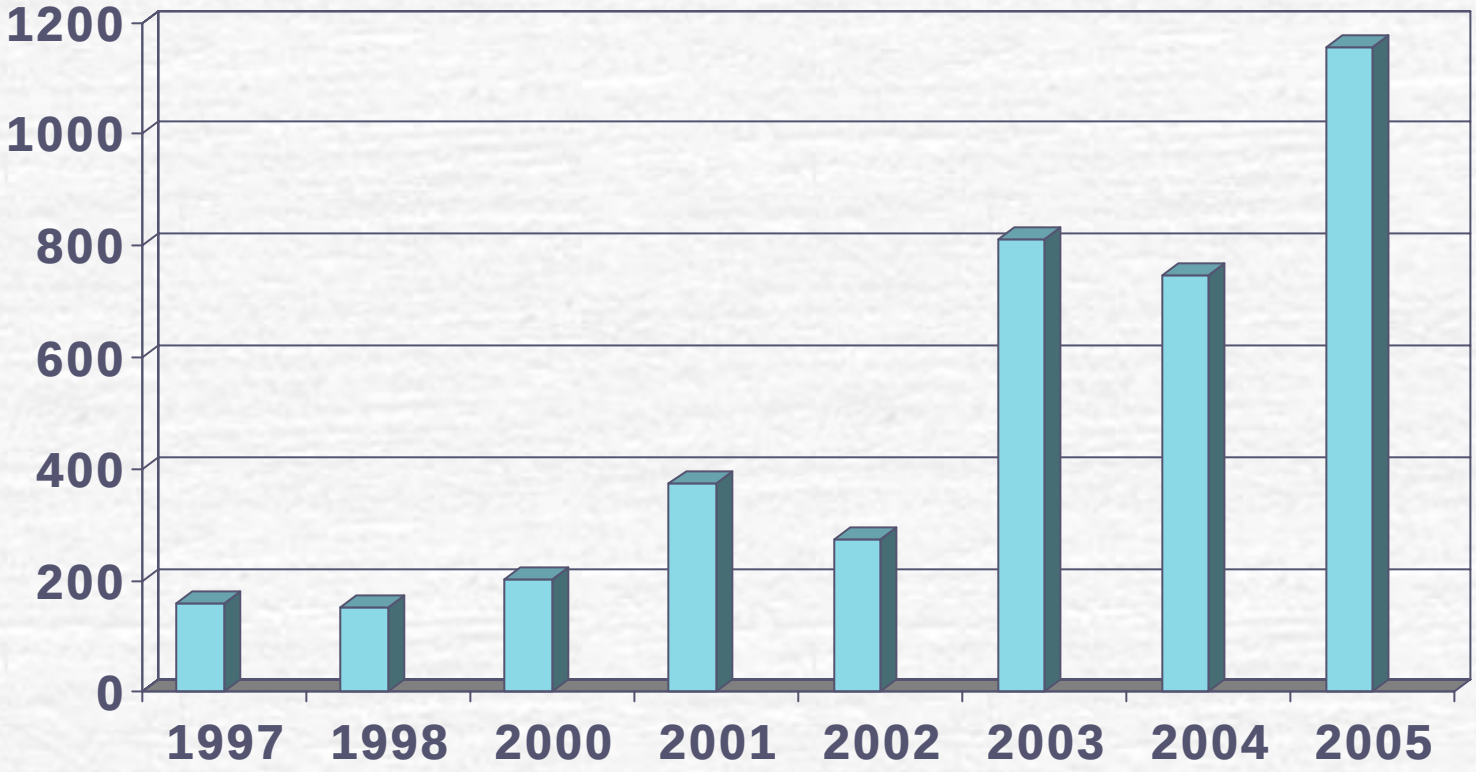
- Executive Order 13112- Invasive Species (1999)
- Meeting the Invasive Species Challenge: National Invasive Species Mgmt Plan (2001)
- Stemming the Invasive Tide – Forest Service Invasive Species Strategy (1998)
- Forest Service Manual 2080
- State Laws

R9 Acres Infested (Plants, 2003)

- Allegheny 51,300
- Cheq-Nicolet 17,200
- Chippewa 800
- Finger Lake 28,200
- Green Mountain 4,500
- Hiawatha 35,000
- Hoosier 3,800
- Huron Manistee 84,000
- Mark Twain 54,000
- Midewin 14,999
- Monongahela 30,902
- Ottawa 500
- Shawnee 17,700
- Superior 1,850
- Wayne 4,300
- White Mountain 800

R9 Total Acres 348,851

R9 NFVW Funding ($K) – P2



NNIS Challenges

- Fragmented ownership
- Disturbance factors
- Public acceptance of herbicide use
- NEPA and control funding

Non-native Invasive Species

- More then 75 animals documented:
  - Non-native fish
  - Zebra mussel/rusty crayfish
  - Eurasian earthworms
  - Domestic cats

- 165 plants tracked:
  - Garlic mustard
  - Japanese barberry
  - Knapweeds
  - Crown vetch
  - Russian and autumn olive
  - Leafy spurge
  - Asiatic honeysuckles
  - Purple loosestrife
  - Eurasian water milfoil
  - Japanese knotweed
  - Kudzu
  - Common&GlossyBuckthorn
  - Multiflora rose

R9 NNIS Objectives

- Leadership and coordination
- Prevention
- Early detection and rapid response
- Control and management
- Restoration
- Cooperation
- Research
- Information and Education

Leadership and Coordination

Actions:

- Designate Regional/forest NNIS coordinators
- Create R9 FSM Supplement (plants and animals)
- Monitor Framework effectiveness

Prevention

Actions:

- Charter Equipment Cleaning Team
- Charter Native Species Team
- Create NNIS "Lessons Learned" for Forest Plans
- Provide NNIS Training
- Use weed-free forage/mulch

Early Detection and Rapid Response

Actions:

- Produce R9 NNIS Field Guides
- Provide NNIS identification and inventory training
- Develop risk/prioritization process
- Develop forest lists – include NNIS priorities in IMPP and BFES
- Monitor high risk entry points and ground disturbing activities (pathways)

Early Detection Rapid Response

- Inventory of roads, gravel pits, RNA's wilderness, wetlands, timber sales.
- Treatment of administrative sites, wetlands, et al.
- NRIS Terra Invasive Plant database

Control & Management

Actions:

- Use Integrated Pest Management Tools
  - Herbicide Toolkit
  - Lake States Herbicide Modification
  - Herbicide Applicator and NEPA training
- Forest Coordinator/FLT identify priorities
- Use multi-funding, partnerships, agreements and volunteers

Feral pig

Control & Manage

- NEPA in progress for IPM on Chequamegon-Nicolet and Ottawa.
- Kudzu and RNA EIS on Shawnee National Forest
- Primarliy manual treatments; bio-control for purple loosestrife, leafy spurge, multiflora rose.
- NNIS in Forest Plan revisions

Restoration

Action: Remove NNIS from administrative sites

Restoration

- National Public Lands Day –
  - White Mountain barberry control
  - Hiawatha seed collection
- Blister Rust Swamp Restoration (TNC/Monongahela NF)
- Midewin Tallgrass Prairie restoration
- Wayne and Hoosier working with state addressing sale of ornamentals and developing native seed mixes as well as wetland restoration projects
- Regional Native Plants Framework

Cooperation

Actions:

- Establish MOU's and Agreements
- Build partnerships
- Prioritize with FS Research and State and Private Forestry

Cooperation/Partners

- Leech Lake Reservation
- Little River Band
- Midwest Natural Resource Group
- National Park Service – Sleeping Bear Dunes
- Michigan, Illinois, Indiana DNR
- Invasive Plant Councils in MN, WI, MI, PA, VT, WV, IN
- The Nature Conservancy MI, WV, IN, WV Chapters
- New England Wildflower Society
- Round Lake Association (WI)
- Notre Dame University
- Michigan State University
- Forest Service Research
- Native Garden/Seed collection Volunteers

Research

Actions:

- Collaborate with Research Stations
- Provide Regional Forester with briefings to discuss with Station Directors

Research

Exotic earthworm

Leafy Spurge

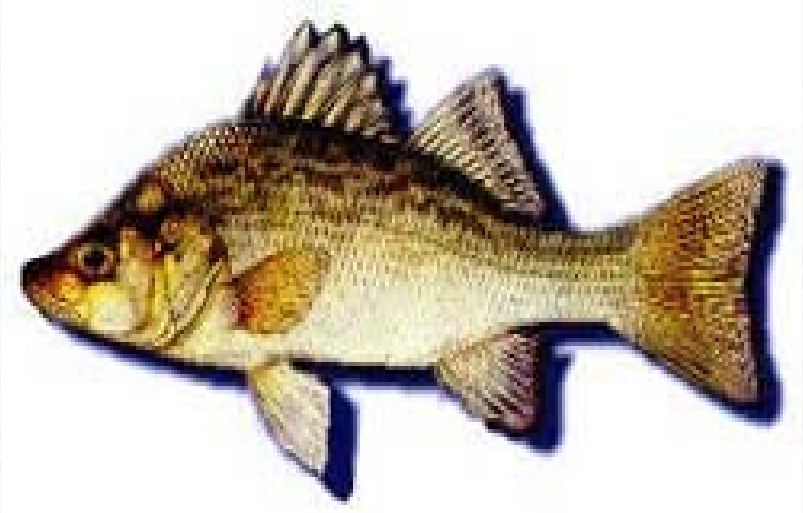
Rusty Crayfish

- Earthworm monitoring on Chequamegon-Nicolet, Chippewa Ottawa NF
- Rusty Crayfish research on Ottawa NF
- Research/monitoring of NNIS and roads on Ottawa and Monongahela NF's

Information and Education

Actions:

- Create R9 NNIS webpages
- NNIS Communication Plan



White Perch

Information & Education

- NNIS Communications Tools:
  - Plant Field guide with SPF and Research
  - Native Plant Restoration Guide – Northland College?
  - Bio Invasion publication – Great Lakes Commission
  - Webpage templates – factsheets, field guide, signs, brochure
  - Display
  - Powerpoints
  - Public Service Announcements – TNC?
  - Learning Kit

2003 Accomplishments

- 3000 acres treated
- NNIS Framework
- NNIS Coordinators
- Lake States Herbicide Agreement
- Inventory and Monitoring training
- Midwest Natural Resource Group
- Multi-discipline funding
- NNIS in Forest Plans
- Partnerships
- Communications Tools funding

2004 Priorities

- 1700 acres treated
- Encourage multi-funding
- Native Species Framework
- Special Use clause
- Equipment Cleaning
- Weed-free forage and mulch
- Plan Revision Tools
- NNIS Training
- Communication Tools
- Midwest Invasive Plant Network
- MNRG EDDR Project

R9 NNIS Steering Committee

- Nancy Lizette Berlin
- Paul Brewster
- Dave Dillard
- Tom Doane
- Michelle Frank
- Allen Nicholas
- Jim Saurbier
- Tom Schmidt
- Clyde Thompson

www.fsweb.fs/r9/departments/nr/nnis