

Minnesota Weed Data Collection



Blane White, Invasive Plant EDRR

Anthony Cortilet, Weed IPM Project

Data Collection in MN

State Agencies

MN Dept. of Ag

MN DNR

MN DOT

BWSR

Federal Agencies

US FWS

BLM

USDA (Multiple)

Dept. of Defense

University of Minnesota

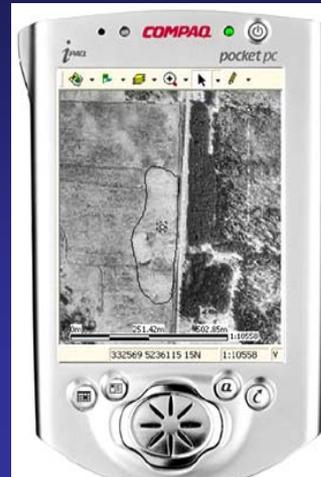
Counties, Cities, and Townships

The Nature Conservancy

Tribal Authorities

Becker and Clay County CWMA's

Minnesota Department of Agriculture



Surveys

2001 PPS and WIPM Thistle Survey

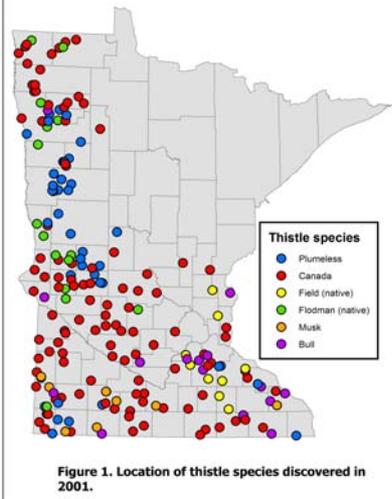


Figure 1. Location of thistle species discovered in 2001.



Biological Control



Research

Minnesota Department of Agriculture Weed Integrated Pest Management

- Full View
- Zoom In
- Zoom Out
- Zoom Back
- Pan
- Get Feature Information
- Print
- Help

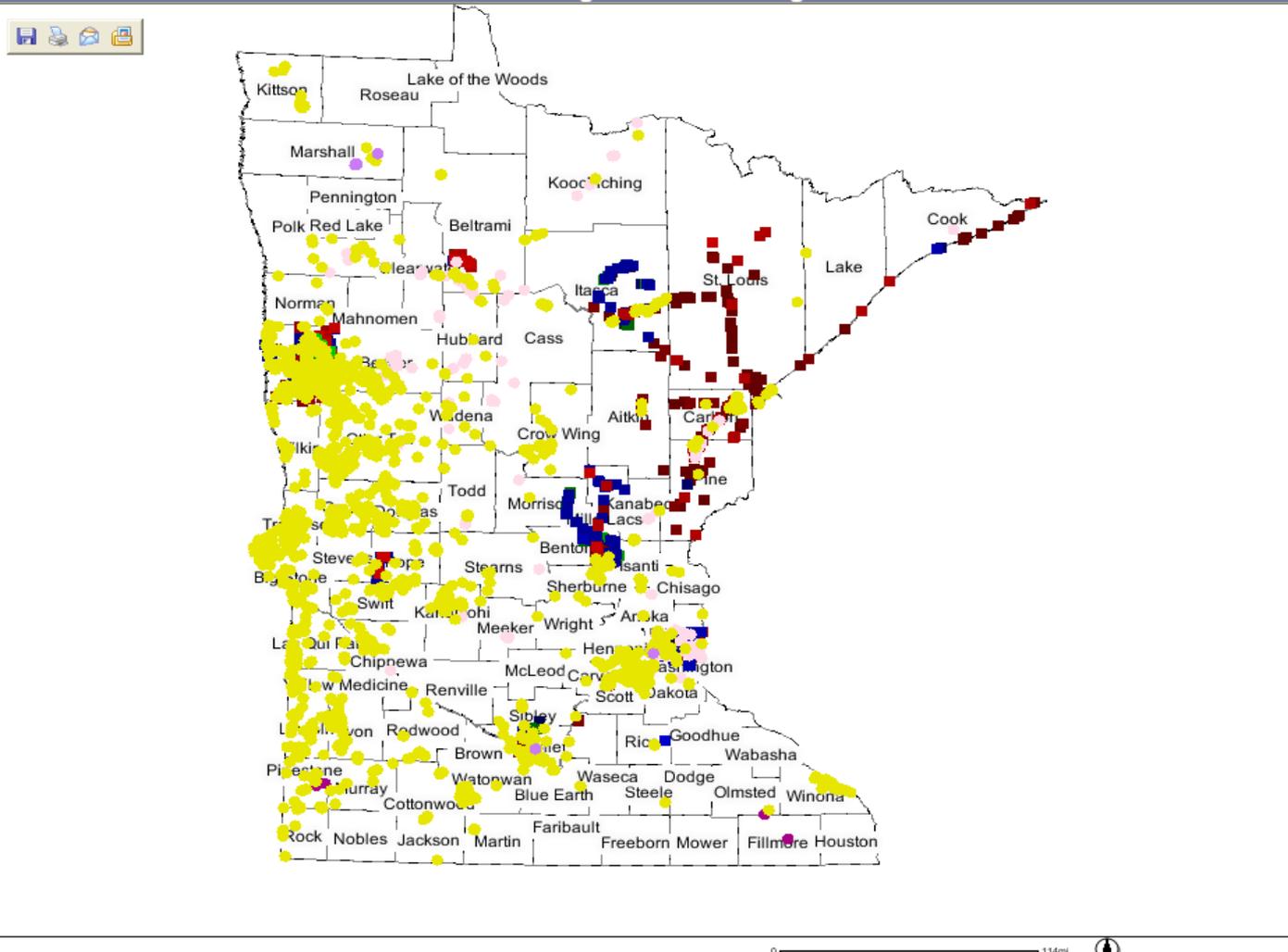
City:
None

Township:
None

County:
None

- ### Map Legend
- #### Biocontrol Release
- Canada Thistle
 - Leafy Spurge
 - Musk Thistle
 - Plumeless Thistle
 - Spotted Knapweed

- #### Statewide Weed Survey
- Carduus acanthoides
 - Carduus nutans
 - Centaurea diffusa
 - Centaurea maculosa
 - Cirsium arvense
 - Cirsium vulgare
 - Dipsacus laciniatus
 - Euphorbia esula
 - Hypericum perforatum
 - Lotus corniculatus
 - Lythrum salicaria
 - Pastinaca sativa
 - Rhamnus cathartica
 - Tanacetum vulgare
 - Weed Areas



- ### LAYERS
- Canada Thistle
 - Leafy Spurge
 - Musk Thistle
 - Plumeless Thistle
 - Spotted Knapweed
 - Alliaria officinalis
 - Artemisia absinthium
 - Carduus acanthoides
 - Carduus nutans
 - Centaurea diffusa
 - Centaurea maculosa
 - Cirsium arvense
 - Cirsium vulgare
 - Coronilla varia
 - Dispacus laciniatus
 - Elaeagnus angustifolius
 - Euphorbia esula
 - Hypericum perforatum
 - Lotus corniculatus
 - Lythrum salicaria
 - Pastinaca sativa
 - Phalaris arundinacea
 - Rhamnus cathartica
 - Rhamnus frangula
 - Sonchus spp.
 - Tanacetum vulgare
 - Weed Areas

Refresh Map

Auto Refresh

- ### Backgrounds
- Visible
- Basemap Labels
 - Transportation
 - Water Features
 - Boundaries
 - DRG-100K DNR
 - DRG-24K DNR
 - 2003 NAIP Aerial Imagery

Minnesota Department of Agriculture
Weed Integrated Pest Management Internet Map Application Help

Warning: When using the DRGs or NAIP Aerial Imagery as background layers, you may need to refresh the map to eliminate distortion in those layers.

The map application was developed to help the public view and identify biocontrol and weed survey data. Maps generated through this website are to be used for display or planning purposes only. Data is not survey

Current Tool: Provides help documentation and information about the website

Minnesota Department of Agriculture Weed Integrated Pest Management

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City:
None

Township:
None

County:
None

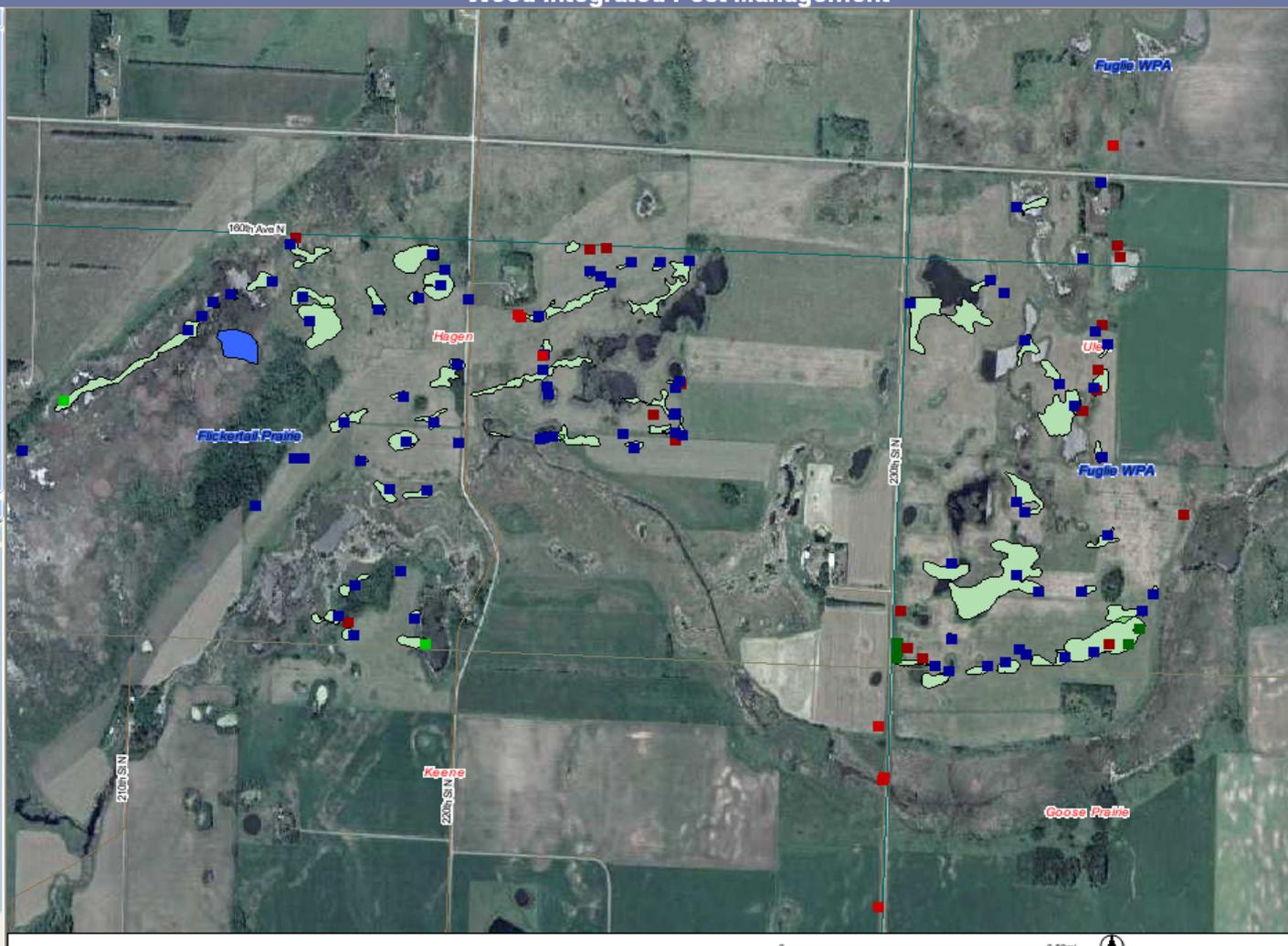
Map Legend

Biocontrol Release

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Statewide Weed Survey

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LAYERS

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Help:
A closed group, click to open.

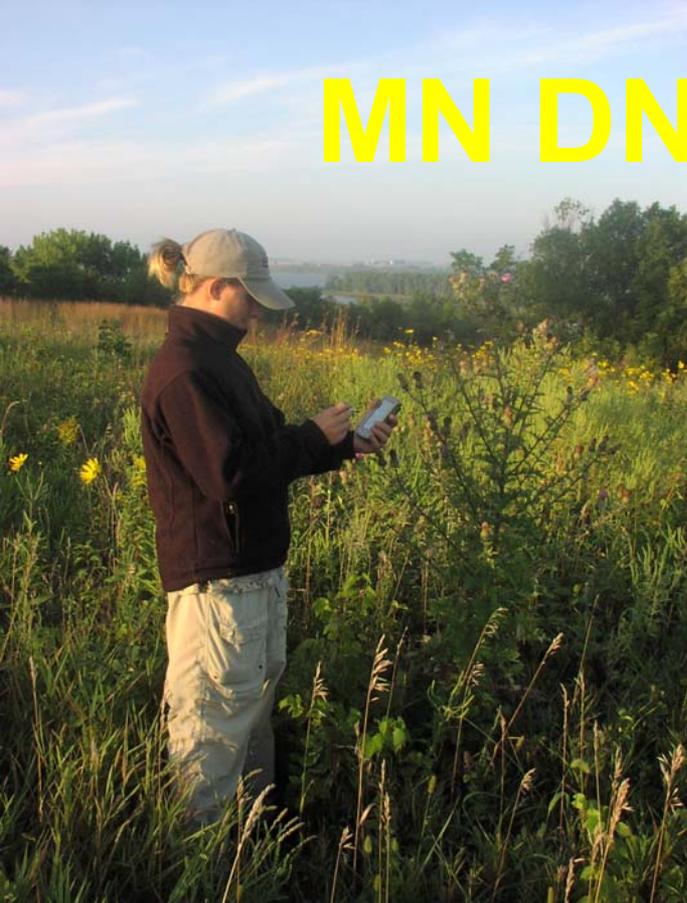
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Current Tool: Zoom In - Click or draw a box on a map to zoom in

MN DNR Data Collection



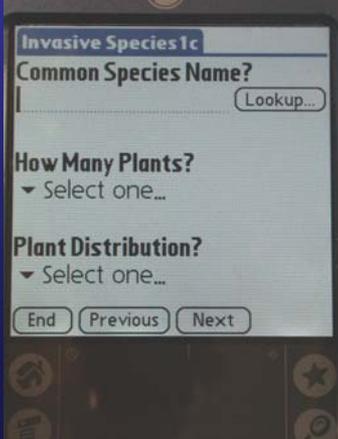
Garmin iQue 3600
PDA Integrated
GPS

Holux GR-231
Bluetooth GPS

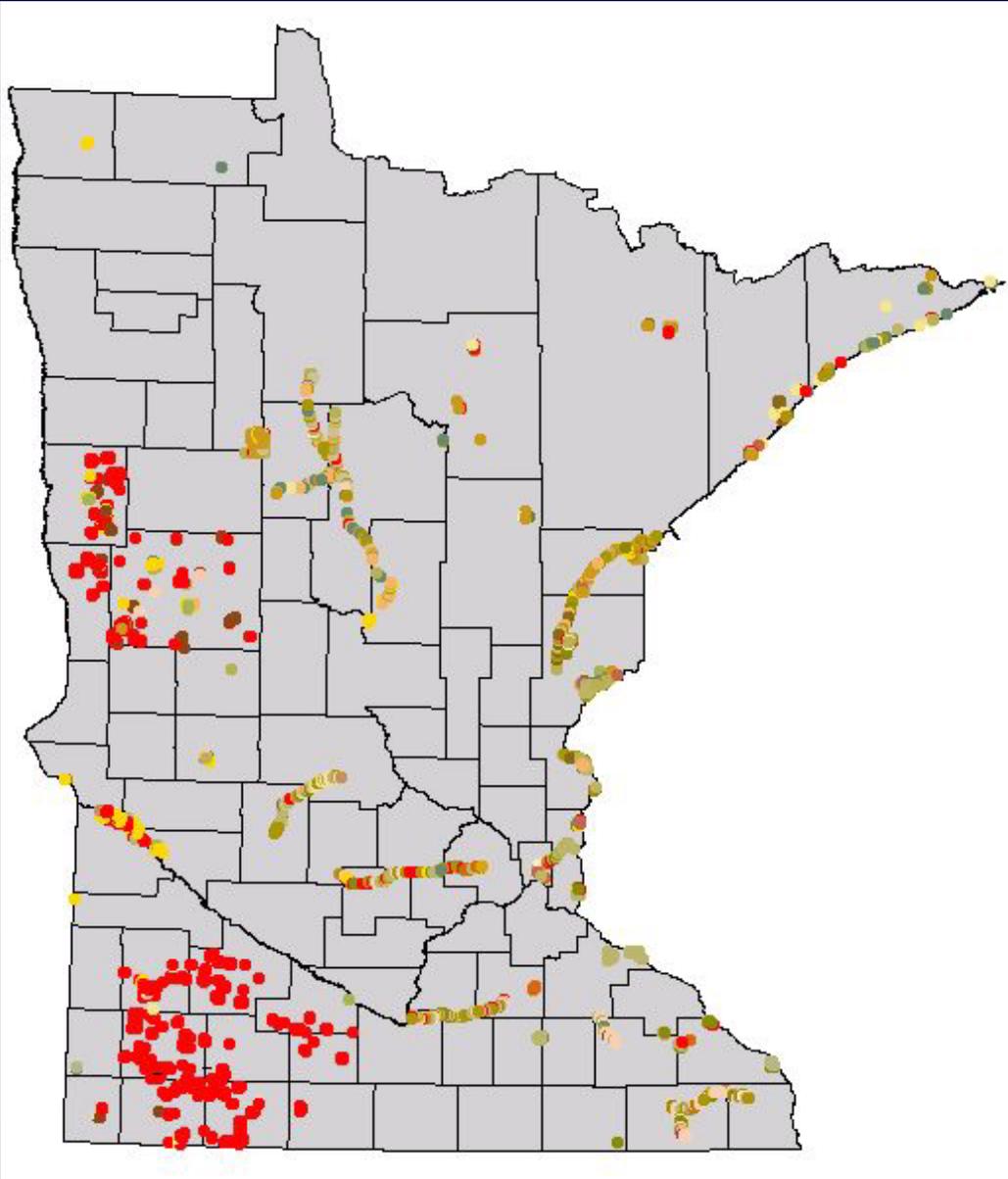


Front View

Palm
Tungsten
E2



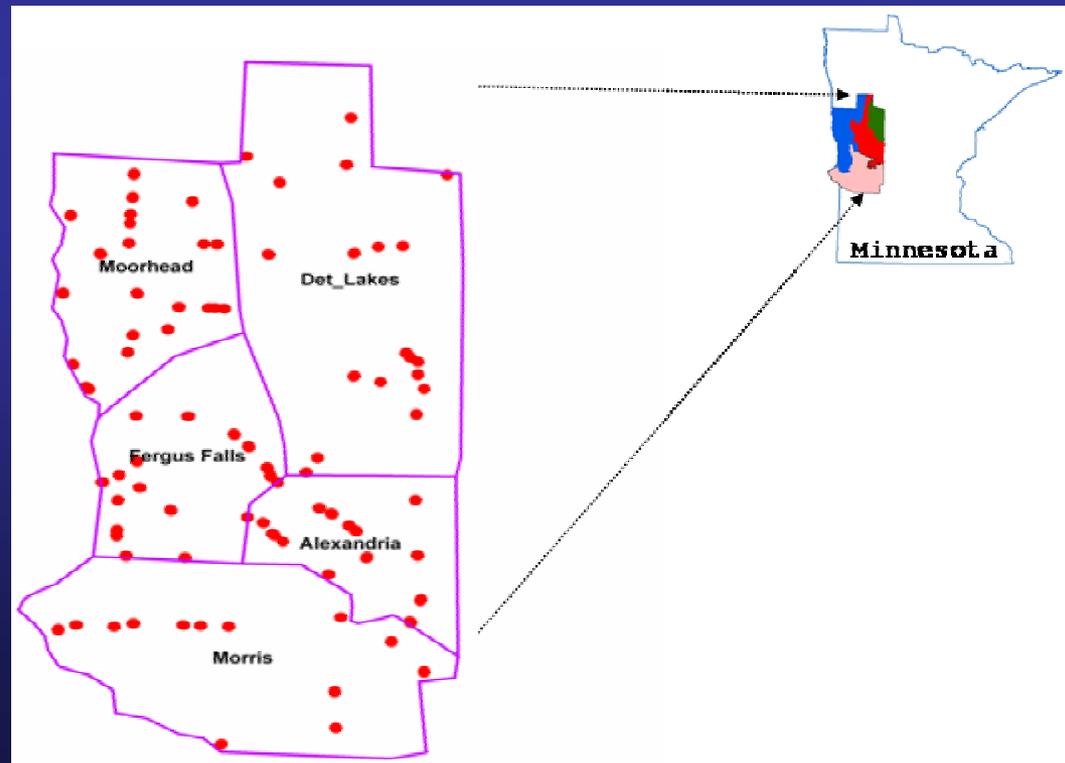
MN DNR Data Availability



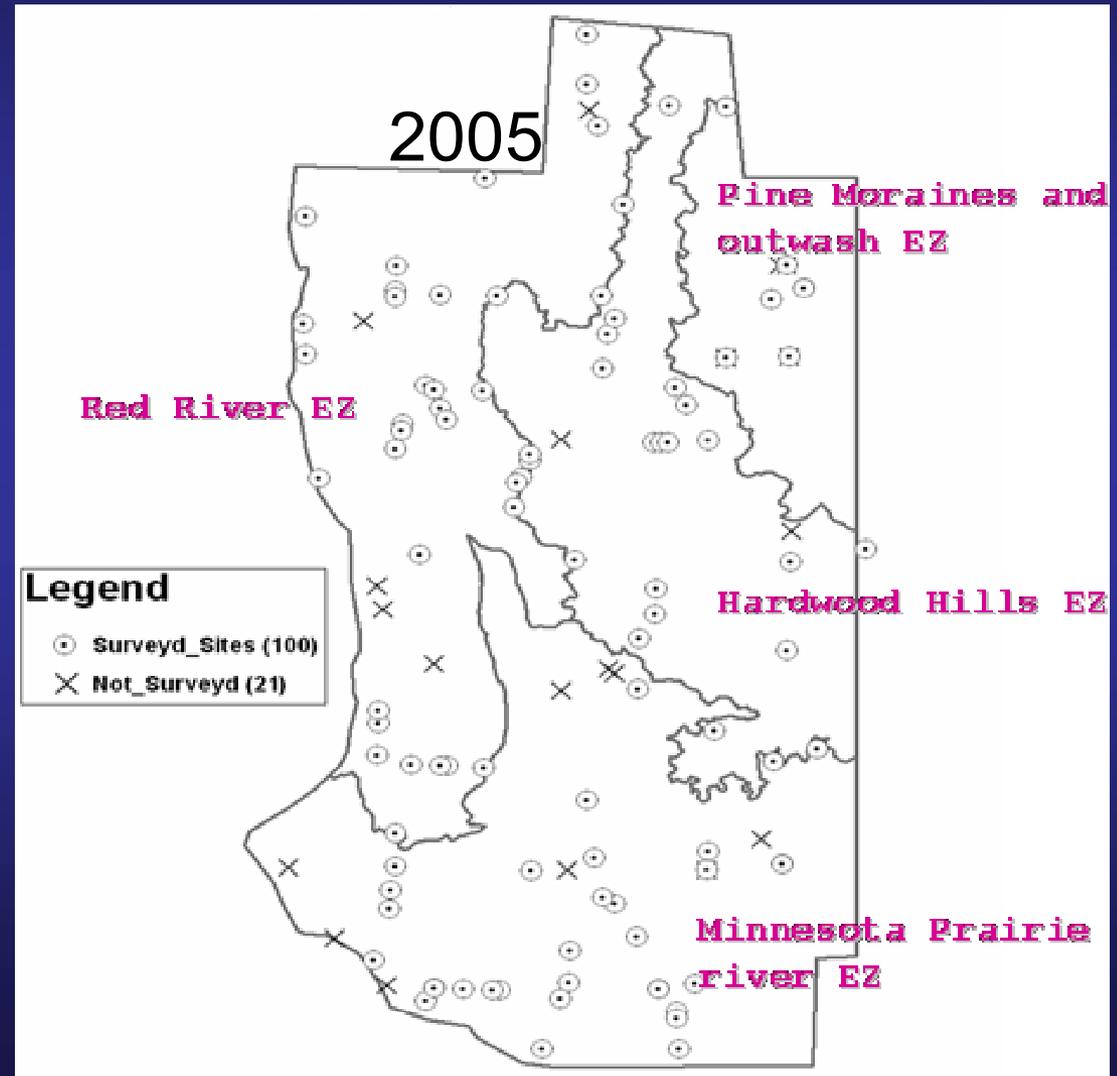
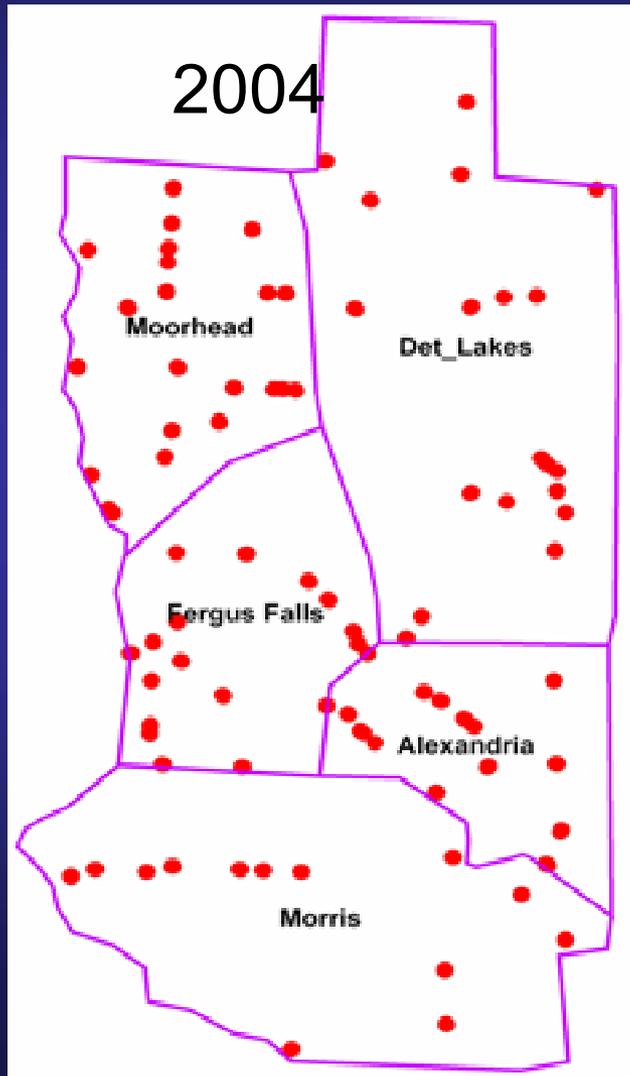
- Data Collected at WMA's, State Parks, SNA's, State Forests, Lakes and Rivers
- Current Invasive Species Observations (14,000 Records)
- Available as shapefiles
- Web based in the future

MN DOT District 4 Survey

- Use Trimble Pro XR gps units to map weed locations using polygons
- GPS weed locations in randomly selected ¼ mile segments
- Recorded data was uploaded, post-processed, differentially corrected, and mapped in GIS



MN DOT 2004 & 2005 Survey Locations



MDA Early Detection & Rapid Response (EDRR)

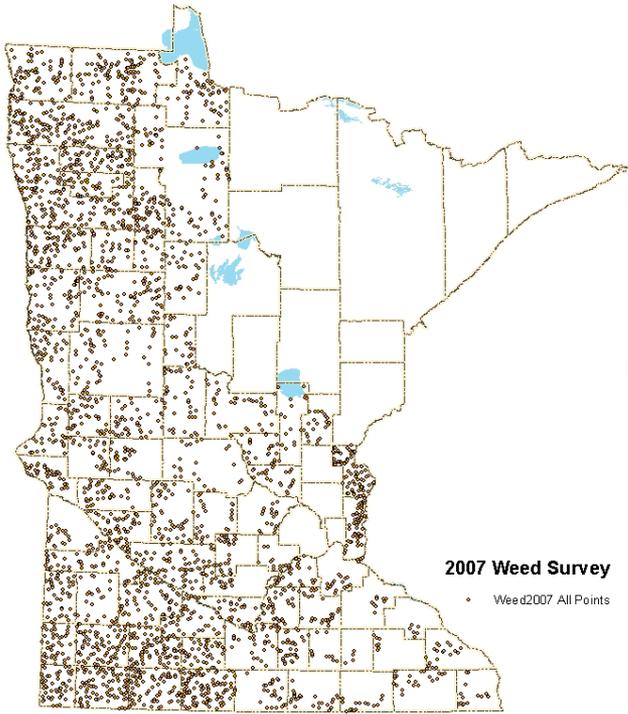
Developing a Cooperative Network to Find and Delimit New Weeds

- Survey Techniques
- Web Based Reporting Tool
- “Arrest the Pest Hotline”

651-201-6684 - Metro Area

1-888-545-6684 - Greater Minnesota





2007 Weed Survey

• Weed2007 All Points



MDA Invasive Species Locator Site - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Print Preview

Address: <http://gis.mda.state.mn.us/website/invasives%5Flocator/viewer.htm>

MINNESOTA DEPARTMENT OF AGRICULTURE
FROM THE FARM TO YOUR FAMILY

MDA A-Z index | MDA staff directory | Visitor parking | HELP

legend

state view

zoom in

zoom out

zoom back

pan

identify

print

locate

invasive

help

Pop-up Blockers
MUST be disabled

City:
None

County:
None

Map Controls

Click on the Layer for more details

Visible Active Layers

[New Invasive Species Locations](#)

Refresh Map

Basemap

2003 FSA Imagery

Current Tool: Zoom In - Click or draw a box on a map to zoom in

Map: 873213.15, 5059134.86 -- Image: 889, 432 -- ScaleFactor: 956.6651011747551

Internet

Weed Survey

Web Based Reporting Tool

Minnesota Contacts

MDA

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MN DOT

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