

# 2012 North Dakota Agriculture Commissioner's Weed Forum

## Noxious Weeds Updates



**Doug Goehring, Agriculture Commissioner**

# North Dakota Department of Agriculture Staff



- Judy Carlson, Plant Industries Division Director



- Jim Hansen, GIS/GPS Specialist



- Rachel Seifert-Spilde, Noxious Weeds Specialist



- Lane Kozel, Plant Protection Specialist

# Updates

- New Website
- Noxious Weed Funding
- 2011 Annual Report
- 2011 Biocontrol Activities
- 2012 biological control plans
- NDSU research (NDDA-funded)
- US Forest Service grants

# New Website



## North Dakota Department of Agriculture



**Doug Goehring**  
Agriculture Commissioner  
[Meet the Commissioner](#)



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### 2012 Local Foods Conference

Registration is now open for the Dakota Grown Local Foods Conference which will be held February 3-4, 2012 at the Holiday Inn, Fargo.

### North Dakota Agriculture in the News

#### [Corn growers urged to participate in pheasant damage survey](#)

*Wednesday, December 28, 2011*

BISMARCK – Agriculture Commissioner Doug Goehring is asking corn growers to participate in a statewide, online survey on the extent of pheasant damage to their crop.

#### [NDDA assumes anhydrous ammonia inspections](#)

*Monday, December 19, 2011*

BISMARCK – Responsibility for inspecting anhydrous ammonia tanks and facilities moves to the North Dakota Department of Agriculture (NDDA) in 2012.

[View All News](#)

#### [Compliance remains high with pesticide regulation](#)

*Tuesday, December 27, 2011*

BISMARCK – Inspections conducted by the North Dakota Department of Agriculture (NDDA) in 2011 showed that compliance with pesticide laws and regulations among the state's producers, pesticide applicators and dealers remains high.

#### [Media Advisory/Meeting Notice](#)

*Friday, December 16, 2011*

The North Dakota Crop Insurance Development Board will meet at 1 p.m., Thursday, Dec. 22, in the North Dakota Department of Agriculture conference room on the sixth floor of the State Capitol in Bismarck.

# New Website

- Programs-Plants/Insects
  - Noxious Weeds
  - Weed Seed Free Forage
  - GIS/GPS/Weedmapper
- Forms-Noxious Weeds
  - LAP Voucher for Payment
  - TAG Voucher for Payment
  - WSFF Certification Request to Inspect
- Events

# Noxious Weeds Funding

- Landowner Assistance Program (LAP)
  - 2011-2013 biennium-2 one-year allocations
    - July 1, 2011-June 30, 2012 allocations are 42% spent with 6 months remaining
- Targeted Assistance Grant (TAG) Program
  - One allocation for 11-13 biennium (\$4,000 per county/\$2,000 per city weed board)
    - 7% spent with 18 months remaining
- USFS Houndstongue Contracts
  - 75% reimbursement for houndstongue survey, mapping and control
    - 10 weed boards interested (totaling \$55,750)

# TAG Program

## Examples

- Herbicide/spraying landowner cost-share
- Herbicide for weed board use/application
- Contractor spraying
- Computer, software and maintenance/service
- PPE , sprayer parts, GPS units
- ATVS/UTVs, trucks, sprayers
- Biocontrol agents

**Proposals must be approved before spending can occur and vouchers are due 6/30/12 and 6/30/13**

# 2011 Annual Reporting

- Due February 1, 2012
- Can be mailed in or completed online at:  
<http://agdepartment.vision-technology.com/weedsurvey/>  
passwords remain unchanged
- Reminder
  - You must click “Save” on each page before clicking “Next” to advance to the next page and then “Submit” on the final page

# 2011 Annual Reporting Reminders

- The acreages in the density columns must equal the total infested acreage
- Three tables must be completed separately (County Noxious Weeds, Public Right-Of-Way and Private Land)

## 7. STATE NOXIOUS WEED ACREAGE SURVEY

State Noxious Weeds	Public Right-of-Way						
	Total Infested Acreage	Infested Acres			Treated Infested Acreage		
		Low Density	Mod Density	Hvy Density	Herbicide	Mechanical	Bio
Absinth wormwood	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Canada thistle	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Dalmatian toadflax	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Diffuse knapweed	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Leafy spurge	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Musk thistle	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Purple loosestrife	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Russian knapweed	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Saltceder	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Spotted knapweed	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Yellow toadflax	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

The total infested acreage column must equal the sum of the density columns

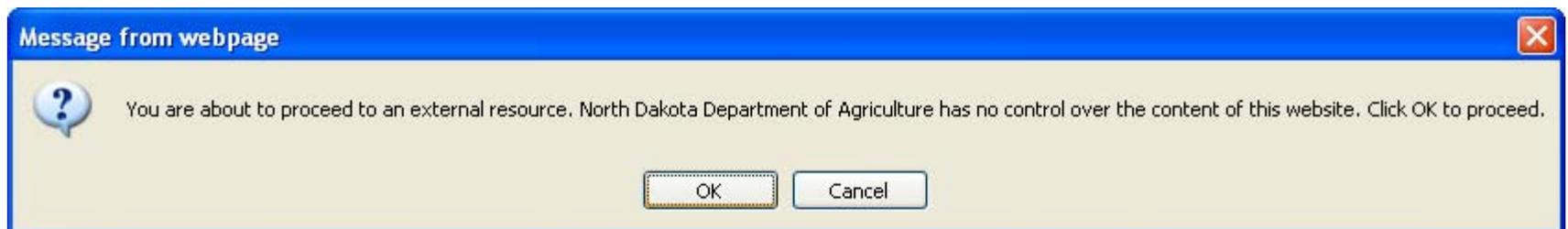
Please use the following density categories to fill in the table above.

Low = 0 - 20% Moderate = 21 - 50% Heavy = 50 - 100%

# Annual Report Changes

The annual report is located on a non-departmental external website so you will get the following message

– click “OK” to access and complete the current form or to search and print old annual reports



# 2011 Biocontrol Activities

- Hired a seasonal to conduct toadflax and biocontrol work
- Co-hosted field days and workshops
- Collected and distributed insects
- Purchased insects
- Monitored sites
- Met with NDSU graduate student
  - [Thistle weevils](#)
- Met with MSU graduate student
  - [Toadflax weevils](#)



# 2011 Field Days and Workshops



- Noxious weeds workshop
  - Stutsman
- Thistle workshop
  - Sargent
  - Richland
- Flea beetle collection field day
  - Stark
  - Grant
  - Sioux
- Toadflax workshop
  - Cavalier

Legend:  
Toadflax  
Leafy Spurge  
Canada Thistle  
General Biocontrol



# Canada Thistle Gall Flies

- Collected galls instead of purchasing
  - High numbers collected from well established sites
- Distributed around 3000 galls or 30 releases
  - About 100 galls/onion bag





# Establishing Toadflax Weevil Insectaries

- Purchased toadflax stem-mining weevils, *Mecinus janthinus*
  - 60 releases
- Released in 4 counties with highest acres reported
  - Ward-20 releases
  - Cavalier-20 releases
  - Lamoure-10 releases
  - Dickey-10 releases
- May take a number of years to establish
- Monitoring sites

# 2011 Biocontrol Activities

- Monitored Canada thistle stem-mining weevil sites
  - Sites from 2004 releases
- Met with graduate student from NDSU
  - Worked with different collection methods for Canada thistle stem-mining weevils
- Met with graduate student from MSU (Montana State University)
  - Monitored yellow toadflax sites with previously released toadflax stem-mining weevils



# 2012 Biocontrol Plans -Canada Thistle & Leafy Spurge

- Gall flies, *Urophora cardui*
  - Collect galls from previous year's stems
  - Distribute galls to those on need's list or other agencies
  - Distribute onion bags and information tags
- Thistle weevils, *Ceutorhynchus litura*
  - May purchase mid-late summer
- Flea beetles, *Aphthona* spp.
  - Help with collections and distributions at field days





## 2012 Biocontrol Plans - Yellow Toadflax

- Toadflax weevils, *Mecinus janthinus*
  - May purchase more to help establish current sites
- Monitor new and old sites
  - Possibility of harvesting by:
    - Sweep net adults
    - Move stems around

# Yellow Toadflax Spraying

- Sprayed in Ward, Cavalier and Dickey counties
- Plans for 2012
  - Continue offering to help spray
    - We provide man-power, backpack sprayers, PPE, water tank, ATV(without sprayer)
    - You provide chemical, water, locations of infestations, special instructions





# NDSU Research

- Research with Canada thistle stem-mining weevils is still ongoing
  - Effects of the thistle weevil combined with the gall fly on thistle shoot morphology
  - Effects of thistle weevils combined with a cover crop on thistle
  - Investigating phenology of thistle weevil larvae to develop a thermal time model describing larval development



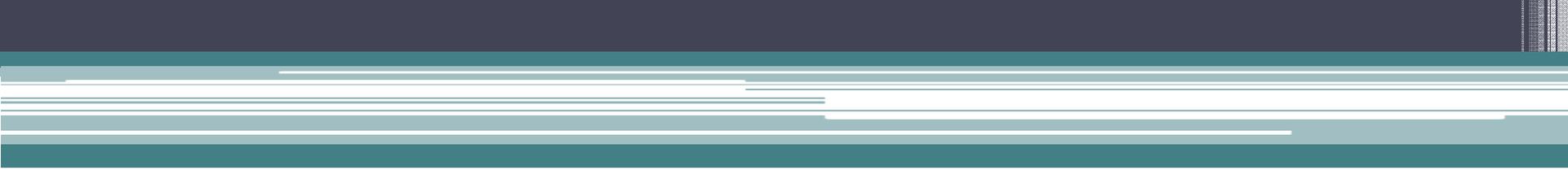


# US Forest Service Grants

- 2009-Integrate Pest Management
  - Continuing biocontrol
    - Field days, workshops, etc.
- 2010-Toadflax
  - Helping spray herbicide
    - Call/email if interested
- 2011-Houndtongue
  - Survey, control, GPS mapping and monitoring of houndstongue

# Citations

- NDSU research information: personal communication with Greta Gramig
- Pictures: NDDA (unless otherwise noted)
- Bison graphic: <http://www.vectorlogo.org/index.php/ndsu-bison-logo-vector-brand/94732>
- McLean County houndstongue infestation: Vance Tomlinson, McLean County Weed Officer



Thank you for  
your time!

Comments or concerns?

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