

Montana

INTERAGENCY BIOLOGICAL CONTROL MEETING

USDA, APHIS, PPQ

HELENA

- **Gary Adams, SPHD**
- **Richard “Joe” Merenz, DPC**
- **Kenneth “Jay” Cole, PPQT**

BILLINGS

- **Shayne Galford, PHSS**

Permitting

- E-Authentication / e-permits
- Violations
- *Mogulones*
 - Not Permitted
 - Ethics
- Saltcedar – *Diorhabda elongata*
 - ALL permits have been revoked.

Saltcedar

- **All permits of any kind of release are still cancelled.**
- **PPQ Program using *Diorhabda* has been suspended.**
- **PPQ is in consultation with FWS regarding the program and previous releases re: SWWF.**
- **Restoration plans must be revised and next steps identified.**

PPQ fiscal support for CABI weed biocontrol R&D projects (FY 2006-2009)

Project (target)		2006	2007	2008	2009	Total
Canada thistle	<i>Cirsium arvense</i>	0	0	0	30,000 ^b	30,000
Dyer's woad	<i>Isatis tinctoria</i>	0	0	4,000	23,000	27,000
Field bindweed	<i>Convolvulus arvensis</i>	0	0	0	35,109	35,109
Garlic mustard	<i>Alliaria petiolata</i>	15,000 ^a	15,000 ^a	15,000	25,000	55,000
Hoary cress	<i>Cardaria draba</i>	9,000	20,000	20,000	20,000	69,000
Hound's-tongue	<i>Cynoglossum officinale</i>	9,500	7,500	16,000	8,000	41,000
Perennial pepperweed	<i>Lepidium latifolium</i>	0	20,000	20,000	10,000	50,000
Russian knapweed	<i>Acroptilon repens</i>	19,500	20,000	20,000	20,000	79,500
Yellow toadflax	<i>Linaria vulgaris</i>	20,000	20,000	20,000	25,000	85,000
Total		58,000	102,500	115,000	196,109	471,609

Notes: ^a Funding from PPQ ER; all other funds from PPQ-CPHST (Fort Collins Laboratory)

^b Pathogen survey in Europe and Asia

Other CPHST-funded projects:

- **Hawkweeds, *Hieracium* spp.** – locate and collect native plants for host specificity testing. (Univ. of Idaho: 2007-2009)
- **Yellow toadflax, *Linaria vulgaris*** – rearing of host-adapted strain of *Mecinus janthinus*. (Colorado State Univ.: 2009)
- **Canada thistle, *Cirsium arvense*** – identification of eriophyid mites collected from Canada thistle and native *Cirsium* thistles (USDA-ARS: 2008-2009; Univ. of Belgrade, Serbia: 2008-2009)

PPQ WR-funded Projects

WR

- Various weed and insect BC projects

MT

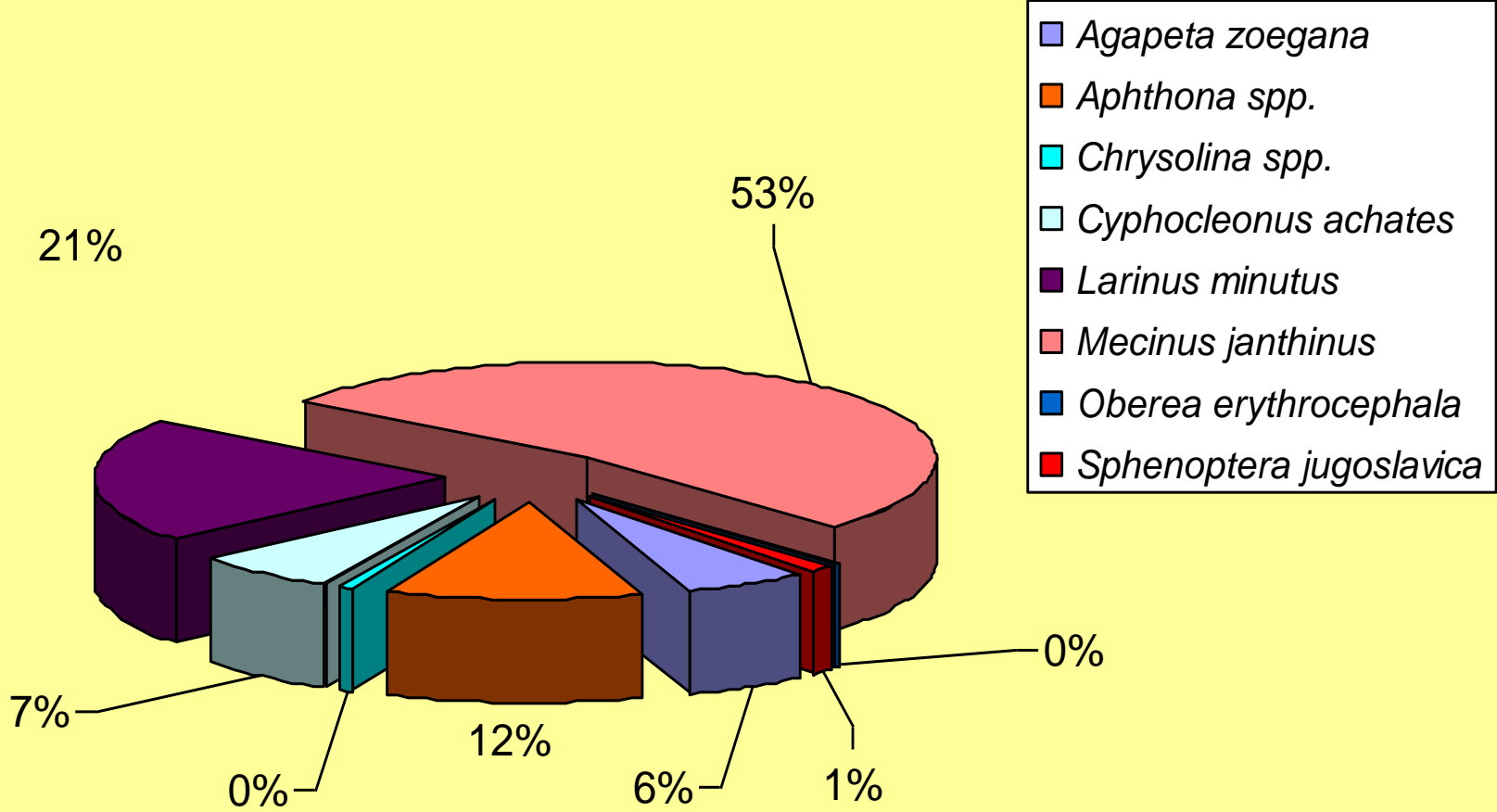
- Adventive BC Agents (MSU: Littlefield)
- What's in Your World (MSU: Hoopes)
- Russian KW BC: (MSU: Littlefield)

The 2009 Montana Cooperative Biological Weed Control Monitoring Project

Cooperative venture between

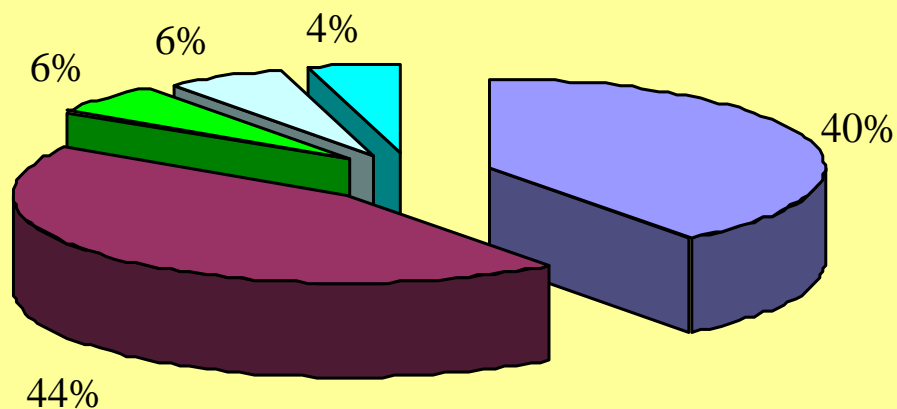
- **BLM**
- **PPQ**
- **MDA**
- **CWDs and landmanagers**

Number of Sites Monitored



269 Sites Monitored

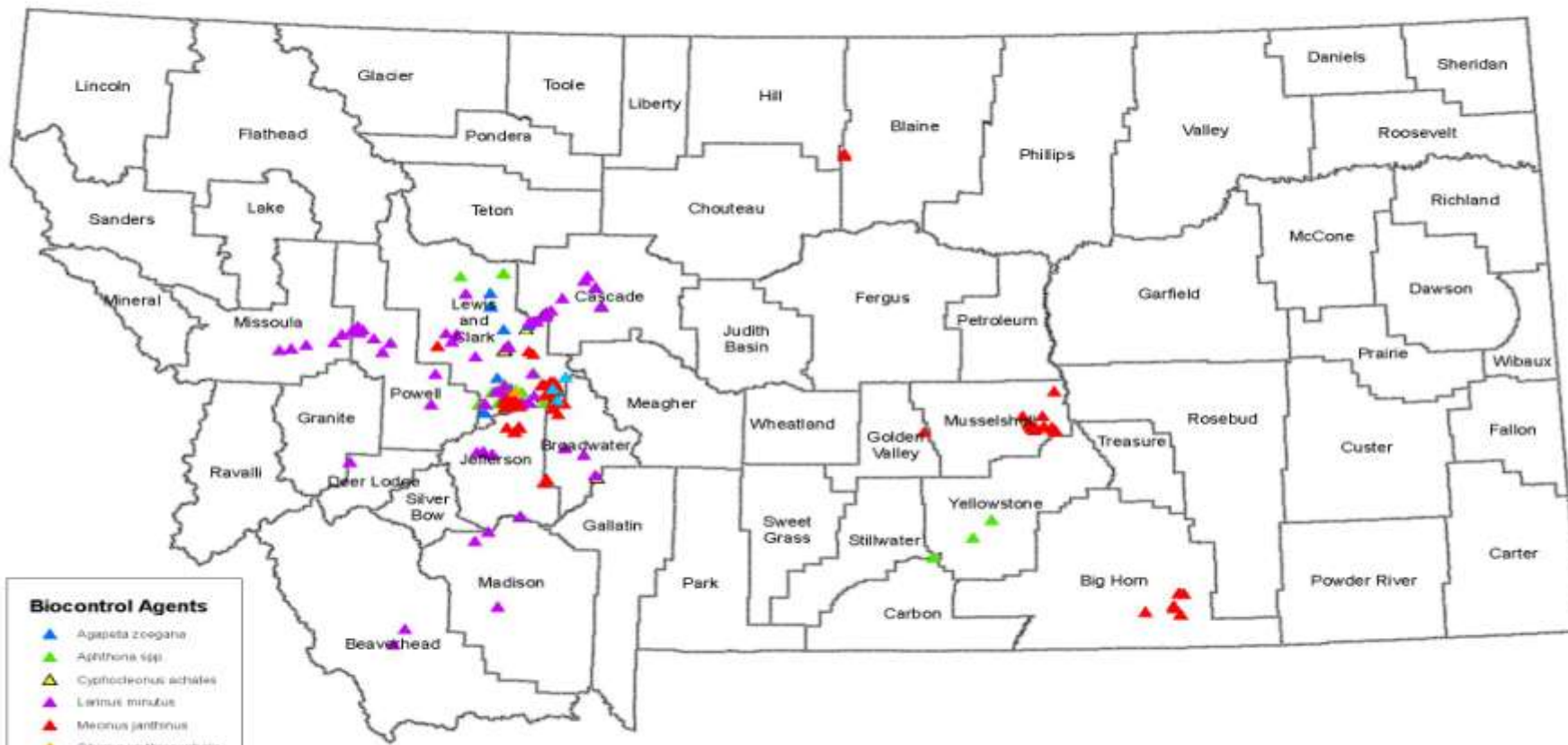
Mecinus janthinus



- Present
- Absent
- Collectable
- Collectable in Low to Medium numbers
- Collectable in Limited to Low numbers



2009 Montana Biocontrol Monitoring Project



- Biocontrol Agents**
- ▲ *Agaseta zoegana*
 - ▲ *Aphthona* spp.
 - ▲ *Cyathoconus achilles*
 - ▲ *Larinus minutus*
 - ▲ *Oobaea erythrocephala*
 - ▲ *Sphenoptera jugostavi*

