

The Weed Battle



Noxious and Invasive Weed Management by
The Salt Lake County Weed Program and
The Bonneville CWMA

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Our program & our partners...

- ❑ Who are we and what do we do....
- ❑ Our Mission:
 - “Prevent the introduction, reproduction and spread of designated noxious weeds and non-native invasive plants into and within Salt Lake County”



Prioritizing Weeds & Resources

- ❑ 2007 Salt Lake Weed Changes
 - 21 Listed Noxious Weeds
 - ❑ Garlic mustard, myrtle spurge, and dalmatian toadflax
 - Category A, B, & C
- ❑ Top priority: Class A weeds
 - Weeds with limited distribution & greatest impact



Mitigating weed impacts...

- Partnerships:
 - The Bonneville CWMA
- Grant funding
 - Education & awareness
 - Mapping & surveying
 - Integrated Weed Management
 - Herbicides
 - Bio-controls
 - Weed Pulls



Established noxious weeds

What weeds do we focus on....



What are we doing about them...



Myrtle spurge (*Euphorbia myrsinites*)



- Impact
 - Public health threat
 - Native plant communities
- Where does it occur locally?
 - Throughout SLCO
- What are we doing about it?
 - 2007 SLCO listed noxious
 - 2007 Plant exchange
 - 2005 USFS project
 - Mapping, education, control

Myrtle spurge IWM

- ❑ Myrtle spurge / Native plant exchange
 - GSL RC&D and SL Conservation District Grant
 - Gave out 1,400 plants
 - Over 6,500 lbs/ 3.5 tons of myrtle spurge



Leafy spurge (*Euphorbia esula*)



- Impact
 - Native plant communities
 - Wildlife habitats
- Where does it occur locally?
 - Jordan River & East Bench
- What are we doing about it?
 - 2007 USFS sites controlled
 - 2006 Bio-control release
 - 2004/05 PTI grant
 - Mapping, education, & control

Leafy spurge IWM

- 2004-2005 PTI Grant:
 - 35 known infestations
 - Survey 150 acres, map 20 acres of leafy spurge
 - 18 acres sprayed



Yellow starthistle (*Centaurea solstitialis*)



- Impact
 - Rangeland communities
 - Foraging/ Grazing
 - Recreation
- Where does it occur locally?
 - City Creek Canyon
 - Little Dell Reservoir
- What are we doing about it?
 - USFS 2005-2007
 - Bio-controls & spraying
 - SLC Dept. of PUD
 - Mapping & restoration

Yellow starthistle IWM

- ❑ 2005-2007 Grant Funded Project
- ❑ Partners:
 - SLC Watershed Group
 - UDOT
- ❑ On the ground work...
 - Approximately 300 Acres mapped
 - Over 150 Acres sprayed
 - Over 7,400 yellow starthistle weevils released



Little Dell Reservoir

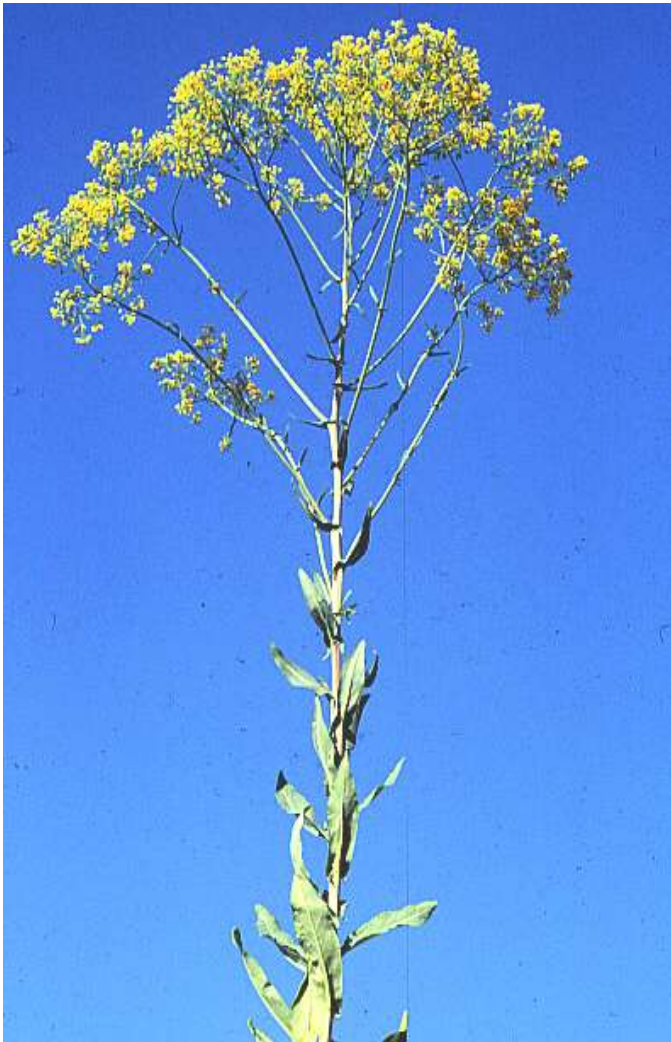


Little Dell Reservoir August
2005



Little Dell Reservoir September
2007

Dyers Woad (*Isatis tinctoria*)



- Impact
 - Native plant communities
- Where does it occur locally?
 - North end of Salt Lake County
- What are we doing about it?
 - 2006 & 2007 City Creek Woad Runner Weed Pull
 - USFS grant funded
 - 2007 GIP
 - Kennecott Copper

Dyers Woad IWM

- ❑ City Creek Woad Runner Weed Pull
 - Sponsored by Salt Lake City Watershed Program
- ❑ Over 50 volunteers
- ❑ Over 200 volunteer hours
- ❑ 2 tons pulled



Dyers Woad IWM: GIP 2007



Salt Lake County spraying dyers woad on Kennecott Land.

May 2007



BCWMA members aspirating Dalmatian toadflax weevils.

June 2007

New Invaders

- Invasive criteria
 - Invading natural areas
 - Listed noxious in similar climate/ ecology
 - Difficult to control
- The to “list” or “not to list” debate
 - Listing makes it a priority
 - Quick action makes sense in the long run in both time and money!



Garlic mustard (*Alliaria petiolata*)



- Impacts
 - Native plant, soil, and insect communities
 - Allelopathic
- Where does it occur locally?
 - Only 3 known locations!
- What are we doing about it?
 - 2007 SLCO Noxious Listing
 - Rapid response IWM
 - Pulling, spraying, monitoring

Purple starthistle (*Centaurea calcitrapa*)



- Impacts
 - Native plant communities
 - Foraging/ Grazing
 - Recreation
- Where does it occur locally?
 - Only 1 known infestation in Utah!
- What are we doing about it?
 - Close to eradication...
 - Spraying, digging

What do we have to show for ourselves?

2004-2007 Grant Projects:

- ❑ Coordinated 10 BCWMA grant projects
 - Awarded over \$70,000
 - ❑ Completed over \$140,000 IWM projects
 - Released over 60,000 bio-control agents
 - Surveyed & mapped over 300 acres
- ❑ Annually SLCO control's:
 - ❑ 800 miles of canals and ROW
 - ❑ 200 acres of invasive & noxious weeds



Looking Forward....



- ❑ Prevention
 - Eradicate new invaders in the watershed!
- ❑ Education & Awareness
- ❑ Partnering: Bonneville CWMA
- ❑ Mapping & Surveying
- ❑ Weed control through IWM