

### **Colorado Noxious Weed Ratings:**

A – these weeds "must be eradicated" & Colorado State "law mandates compliance from all local governing bodies (counties and cities), as well as affected public and private landowners."

**B** – These weeds require weed management plans to be "develop[ed] and implement[ed] to stop the continued spread of these species." Some B-list weeds are even designated for eradication by the State. For example, Bouncing Bet is only found in small quantities in Fremont and Custer Counties, so instead of controlling and containing the infestations, eradication is the goal.

**C** – The goal with these weeds is not "to stop the spread of these weed species, but to provide additional educational, research and biological control resources to jurisdictions that choose to require management of List C species."

Please see "Noxious Weeds of Colorado" booklet, 10th edition, produced by the Colorado Weed Management Association.



Extension

### Custer County's Noxious Weeds

- A Myrtle Spurge (Euphorbia myrsinites)
- A Cypress Spurge (Euphorbia cyparissias L.)
- B Bouncing Bet (Saponaria officinalis) DESIGNATED FOR ERADICATION
- B Bull thistle (Cirsium vulgare)
- B Canada thistle (Cirsium arvense)
- B Dalmation toadflax (Linaria dalmatica)
- B Diffuse knapweed (Centaurea diffusa)
- B Hoary cress (Cardaria draba)
- B Houndstongue (Cynoglossum officinale)



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### Custer County's Noxious Weeds Continued

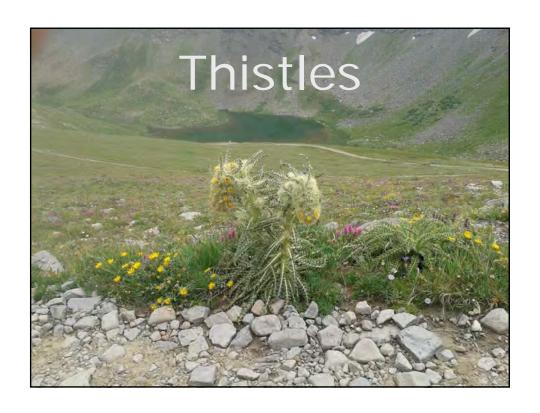
- B Leafy spurge (Euphorbia esula) DESIGNATED FOR ERADICATION
- B Musk thistle (Carduus nutans)
- B Oxeye daisy (Chrysanthemum leucanthemum)
- B Perennial Pepperweed (Lepidium latifolium L.)
- B Russian knapweed (Acroptilon repens)
- B Spotted knapweed (Centaurea maculosa)
- B Yellow toadflax (Linaria vulgaris)
- C Common mullein (Verbascum thapsus)



### Custer County's Noxious Weeds Continued

Watch List –
Spreading Dogbane
Bindweed
Star Thistle
Elongated Mustard
Swainsonpea
Tamarisk





# Historically:





- Created in a moment of grief
- Sign of an un-kempt land, untidiness and neglect



by P. Miller

Genus name was chosen after the Greek word Ciros=swollen vein as thistles were considered a remedy for this

### Native vs. non-native

- In general, nonnative thistles are much more robust,
- grow in much larger clumps, and
- tend to be purplish rather than whitish



Carduus acanthoides Plumeless thistle

### Positive associations:

- food: artichokes, young leaves in salad, young stems and roots peeled and eaten raw or cooked, seeds roasted
- medicinal values: anti-inflammatory properties, astringent.



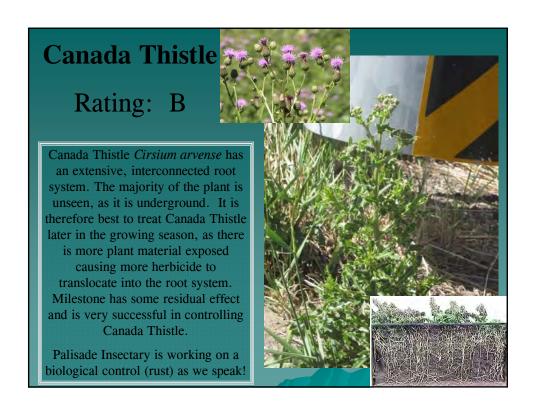
## **NON-NATIVE THISTLES**

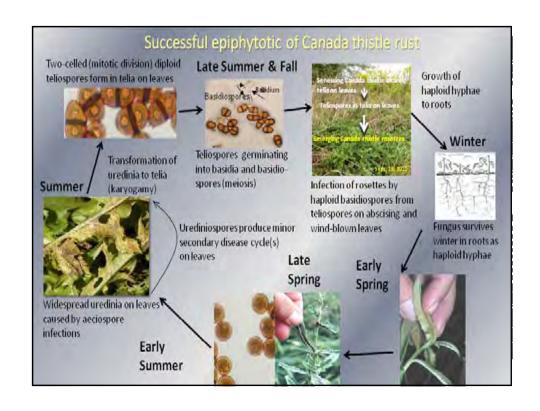
- Musk Carduus nutans
- ◆ Canada Cirsium arvense
- ♦ Bull Cirsium vulgare
- Scotch Onopordum acanthium

### Others

- Yellow Starthistle Centaurea solstitialis
- Sow thistle Sonchus arvensis
- Plumeless Carduus acanthoides
- Russian Salsola tragus L.

# Musk Thistle Rating: B Musk Thistle Cardius mutans has the ability to form dense stands in nearly any soil. It can choke out native species and other desirable plants, which can affect grazing livestock. Milestone herbicide is effective and is most effective mid-summer.



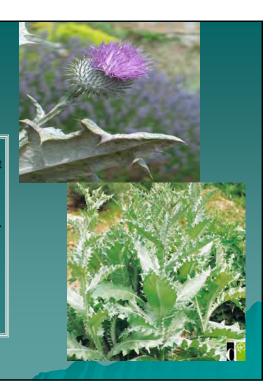






# Scotch Thistle Rating: B

Scotch Thistle *Onopordum*acanthium In the late 19th century, it was introduced to temperate regions of North America, South America, and Australia as an ornamental plant, and is now considered a major agricultural and wildland noxious weed. It is difficult to eradicate because of its drought resistance. It can spread rapidly and eventually dense stands prohibit foraging by livestock.



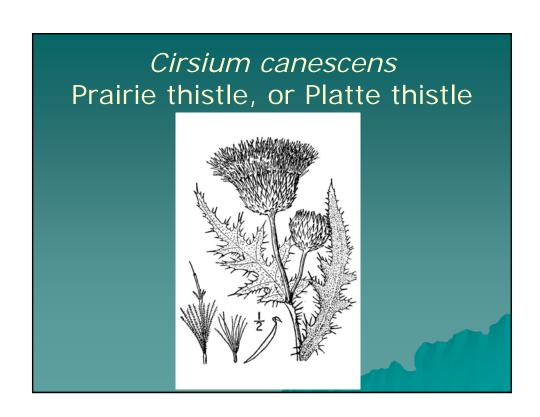




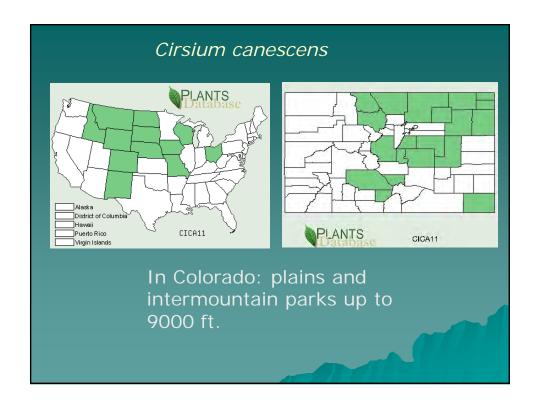


## Native thistles in Colorado

- We will cover 4 species in Custer County
- Give a sense for diversity, and key identifying characteristics





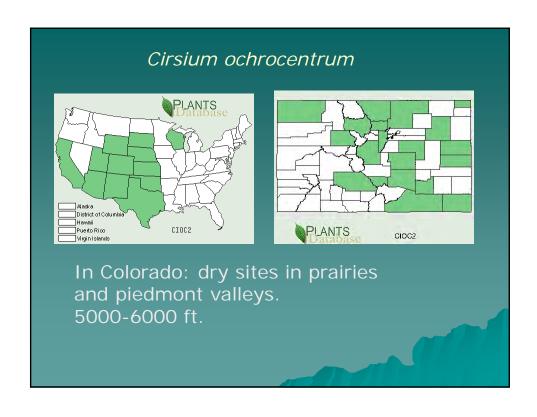


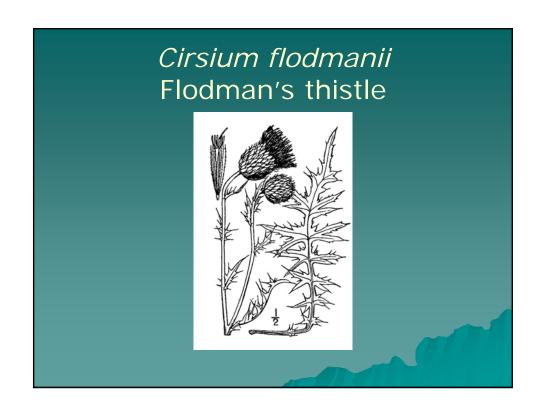












### Cirsium flodmanii Flodman's thistle

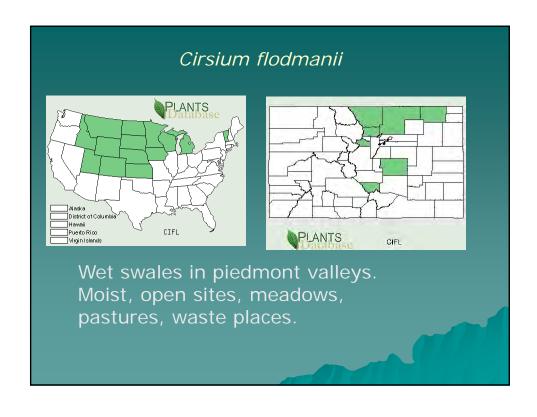
- flowers deep purple (July-Sept.)
- heads solitary and terminal, 2-3 cm high
- tends to form patches by root sprouting, and is found in more moist habitats

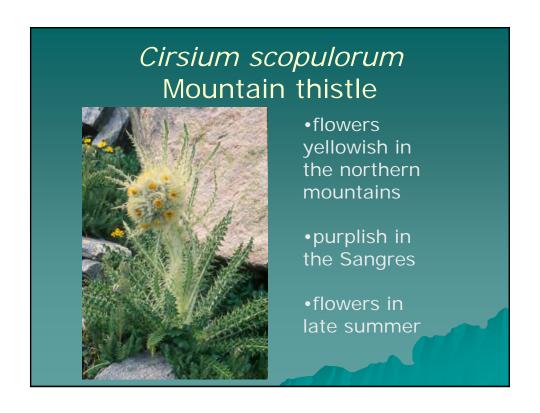




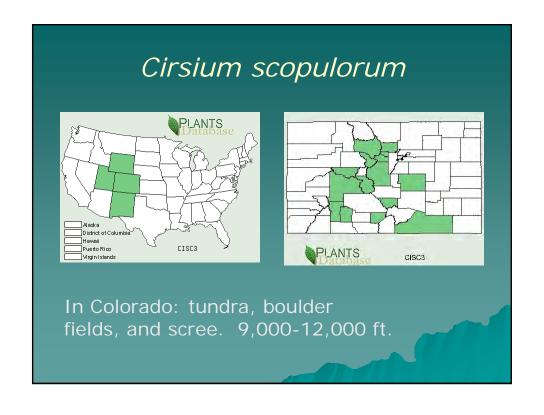
#### Cirsium flodmanii

- •leaves have flat hairs beneath
- stems usually branching in upper portions
- rhizomatous









### Threats/Stresses

- Weevils (Rhinocylus conicus and others)
- Development (residential, industrial, agricultural)
- · Indiscriminate pulling, spraying
- Misconception that all thistles are bad-education is needed

# YOU CAN HELP STOP THE SPREAD OF NOXIOUS WEEDS

KEEP AN EYE OUT
AND
LET US KNOW!!!!!





Colorado State University Extension

# **Custer County Extension**

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Our Time for Critical Engagement