

Musk Thistle Fact Sheet

Carduus nutans

Asteraceae Family



Leslie J. Mehrhoff, University of Connecticut, Bugwood.org

Steve Dewey, Utah State University, Bugwood.org

Distinguishing Features:

- ❶ **Flowers:** Plants have large disk shaped, showy red to purple flower heads, that droop when mature.
- ❷ **Seeds:** A single plant can produce up to 120,000 seeds annually, with seeds remaining viable in the soil up to 5 years.
- ❸ **Leaves:** Very spiny stems and leaves. Stems have a winged appearance.
- ❹ **Flowering Time:** June - September.
- ❺ **Life cycle/ other:** Biennial growing up to 6 feet tall.

Impacts:

- Musk thistle is continuous throughout the United States. It invades many types of habitats, but is a serious threat to pastures as it is unpalatable to livestock.
- Once established it spreads rapidly because of the large number of seeds produced.

Control:

- Prevention of this plant's invasion is the best form of management. Control plants before they flower and set seed.
- Control of these plants must include preventing new seed dispersal for up to 12 years.
- For small infestations the best method for removing infestations are digging them out by hand.
- For larger infestations the use of herbicide on young plants in the rosette stage before flowering prevents seed set. Picloram and metsulfuron offer excellent control.
- In both small and large infestations, plant competition by seeding disturbed areas with desirable grass species is helpful for long-term management.
- Several biological control agents have been released, but have varying degrees of effectiveness. The most widely introduced species is *Rhinocyllus conicusus*.



Norman E. Rees, USDA Agricultural Research Service



Salt Lake County Weed Control Program
www.weeds.slco.org
385-468-6101
weeds@slco.org