

## **Yellow Starthistle Control**

### **I. Origin**

### **II. Distribution**

### **III. Impact**

### **IV. Identification**

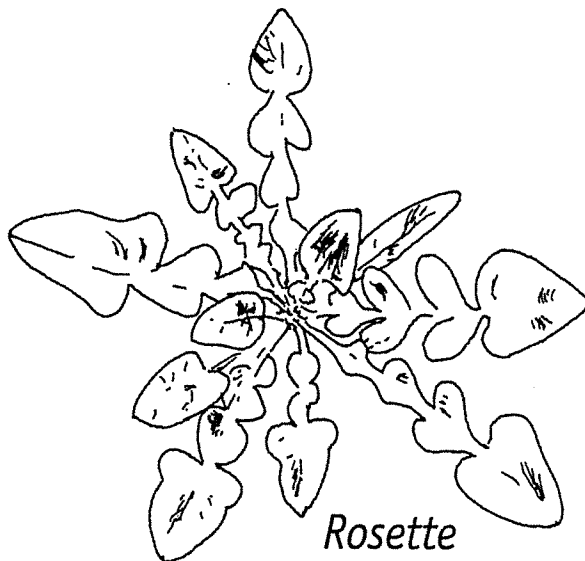
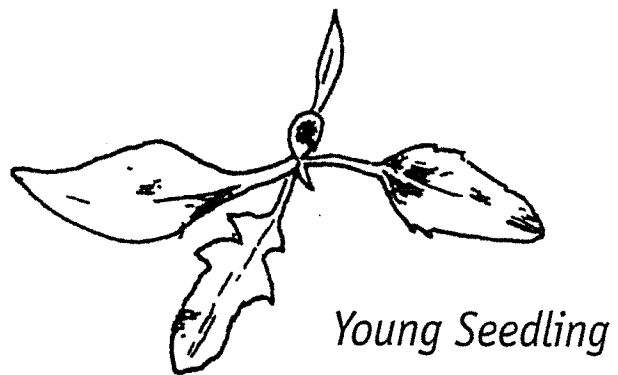
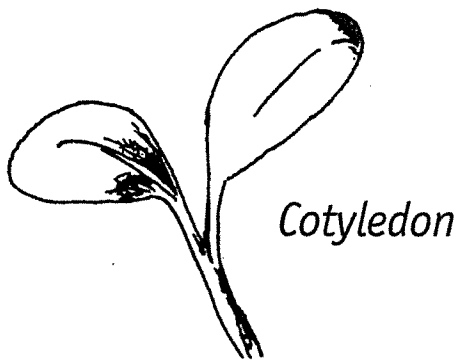
### **V. Culture**

### **VI. Control Program Design Factors**

### **VII. Control Mechanisms**

### **VIII. Strategic Planning for Control**

# Early Growth Stages



# Control Program

## - Design Factors -

If your goal is:

you must:

Eradication

- eliminate all seed production
- deplete the seed reservoir
- prevent seed from outside from being introduced

Management

- reduce:
  - plant density
  - seed production
  - plant height
  - canopy size
- prevent YST patches from developing into solid stands

Containment

- delineate boundaries around the infested area
- eliminate peripheral patches and solitary plants outside the infested area

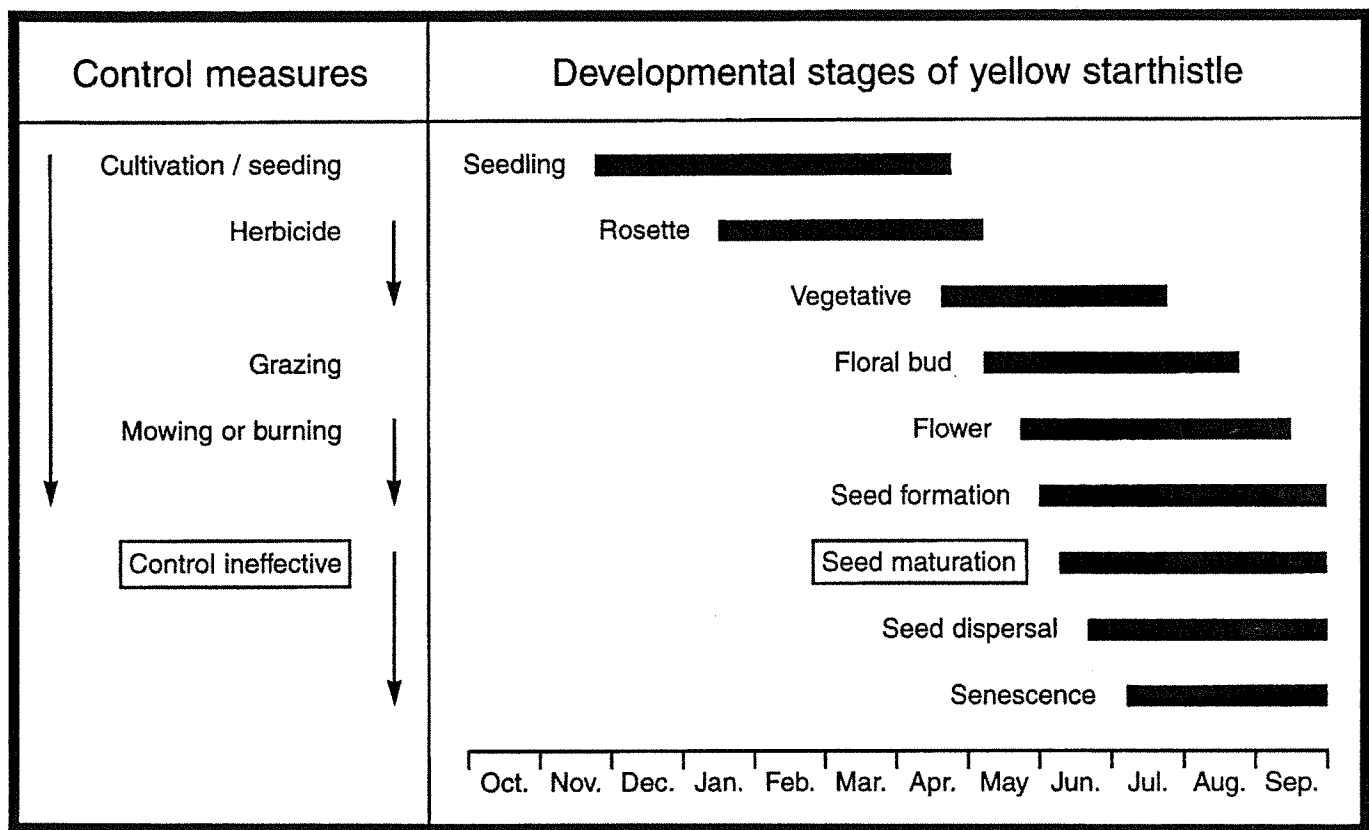
Prevention

- eliminate isolated plants
- use clean seed, hay, fill soil, & road building materials
- clean equipment & vehicles
- examine nursery stock & plantings

*Take note of*

- *relative abundance*
- *patterns of distribution, i.e. in the general area, in your area of concern*

# Control Measures - Timing



## HERBICIDES FOR CONTROL

NAME	NON- SELECTIVE	SELECTIVE	PRE/POST EMERGENT	SUITABILITY
Glyphosate (Roundup, & many names)	X		Post	-not for large areas -non-crop areas
2,4-D (Weed-B-Gone)		X	Post	-non-crop areas -drift problems
Dicamba (Weed-Be-Gone & others)		X	Post	-non-crop areas -drift problems
Trychlopyr (Ortho Poison Ivy & Brush Killer)		X	Post	-non-crop areas -drift problems
Clopyralid (Transline)		X	Both	-no grazing restrictions -non-crop areas -pesticide ID number required, contact county Ag Dept
Aminopyralid (Milestone)		X	Both	-same as Clopyralid

Source: William Frost (Natural Resource Advisor) & Joe DiTomaso (Extension Specialist) from Yellow Star Thistle Workshop

# Yellow Starthistle Leading Edge Project

To follow along with the videos at the right, print off the Yellow Starthistle Biology, Mechanical and Cultural Control Methods presentation below.

- Yellow Starthistle Biology, Mechanical and Cultural Control Methods: by Wendy West, UC Cooperative Extension, El Dorado County *January 23, 2010*
- Yellow Starthistle Control: by Joe DiTomaso, Cooperative Extension Weed Specialist, University of California, Davis *January 11, 2008*
- Yellow Starthistle Control Utilizing Herbicides: by LeeAnne Mila, El Dorado County Department of Agriculture *January 23, 2010*
- Yellow Starthistle Control in Vineyards & Orchards: by Scott Oneto, UC Cooperative Extension Central Sierra January of 2010

## Publications & Handouts

- Yellow Starthistle Pest Note
- Landowner Strategic Plan
- Milestone and Transline - How much should I use?
- How to get Transline or Milestone?
- Equipment Rentals - El Dorado County Department of Agriculture
- Starthistle Killer Brand Calibration Safety Notes
- Pesticides: Safe & Effective Use in the Home Landscape Pest Note
- Soil Solarization for Gardens & Landscapes Pest Note

## Other Resources

- A Landowner's Guide to Preventing the Introduction and Spread of Invasive Weeds - El Dorado County Invasive Weed Management Group
- A Builder and Contractor's Guide to Preventing the Introduction and Spread of Invasive Weeds - El Dorado County Invasive Weed Management Group
- Selected Invasive Weeds of the Central Sierra Nevada - A Field Guide - 4th Edition April 2007

Resource:

[http://cecentralsierra.ucanr.edu/Invasive\\_Weed\\_Management\\_Program/Yellow\\_Starthistle\\_Leading\\_Edge\\_Project/Presentations](http://cecentralsierra.ucanr.edu/Invasive_Weed_Management_Program/Yellow_Starthistle_Leading_Edge_Project/Presentations)