

Yellow Starthistle Control in Vineyards and Orchards



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for California*

Vineyard / Orchard Floor Management



Vineyard / Orchard Floor Management



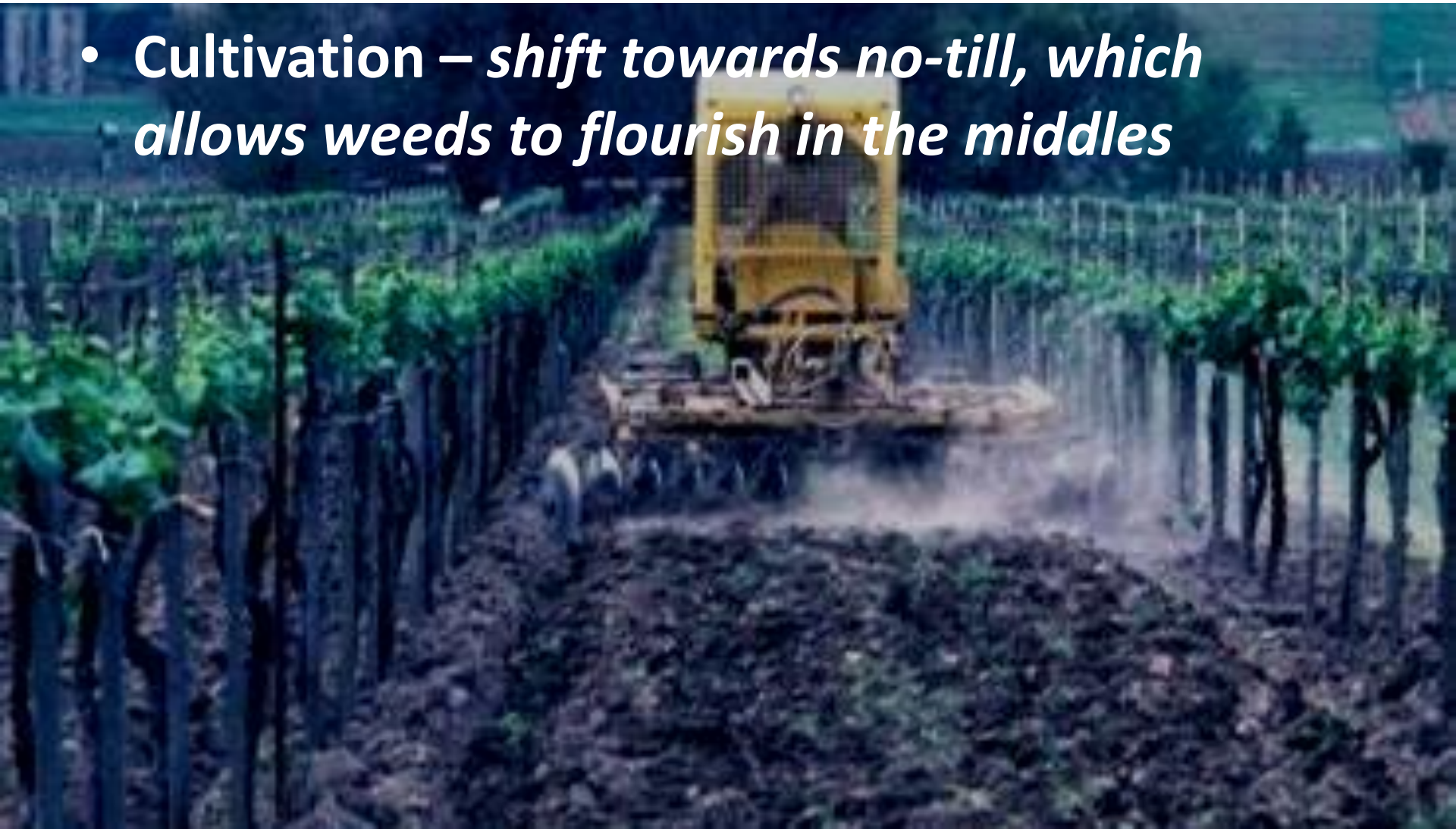
Management Strategies that affect Yellow Starthistle

- Early Mowing - *reduces competition, opens canopy for YST*



Management Strategies that affect Yellow Starthistle

- Cultivation – *shift towards no-till, which allows weeds to flourish in the middles*



Management Strategies that affect Yellow Starthistle

- Herbicides – *shift towards using fewer chemicals, which allows weeds to flourish in the middles*



Yellow Starthistle Control Strategies in Vineyards / Orchards

- Mechanical
 - Mowing
 - Cultivation
 - Hand pulling / Hoeing
- Cultural
 - Flaming
 - Revegetation
- Chemical



Yellow Starthistle Control Strategies in Vineyards / Orchards

- Mechanical
 - Mowing; most susceptible at pre-bloom stage
 - *For areas sensitive to frost – mow once for frost protection, then wait till YST reaches spiny stage and mow again.*



Yellow Starthistle Control Strategies in Vineyards / Orchards

- Mechanical
 - Cultivation; *cultivate infested areas, or every other row*
 - *Timing: early and often, or after desirable vegetation has set seed*



Yellow Starthistle Control Strategies in Vineyards / Orchards

- Mechanical
 - Hand pulling / Hoeing; *wait till plants begin to bolt. Very selective and highly effective, but costly*



Yellow Starthistle Control Strategies in Vineyards / Orchards

- Cultural
 - Flaming; *wait till last spring rains*



Yellow Starthistle Control Strategies in Vineyards / Orchards

- Cultural
 - Revegetation; *establishment of a cover crop to outcompete yellow starthistle*



Herbicides Registered for use in Trees and Vines

Preemergent

Surflan
Chateau
Princep
Goal
Solicam
Kerb
Visor
Casoron
Karmex
Devrinol
Prowl
Matrix
Trellis
Treflan

Postemergent

Roundup
Gramoxone
Rely
Shark
Fusilade
2,4-D
Poast
Venue
Prism

Organic

Matratec
GreenMatch
Scythe

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* UCIPM Pest management guidelines-always check the label before using any herbicide



Yellow Starthistle Control Strategies in Vineyards / Orchards

- Selective chemical control
 - What about Milestone and Transline?
 - *NOT REGISTERED FOR USE IN VINEYARDS / ORCHARDS*
 - Use broadleaf herbicides or those that show some tolerance to grasses
 - Preemergent; GoalTender, Trellis
 - Postemergent; Shark, 2,4-D, Venue
 - Use non-selective herbicides but only apply as spot treatments
 - Roundup, Rely, Matratec, GreenMatch, Scythe



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