

#### Weeds? What's a weed

- a valueless plant growing wild, especially one that grows to the exclusion or injury of the desired crop.
- any undesirable or troublesome plant, especially one that grows profusely where it is not wanted.
- plants that are competitive, persistent, pernicious, and interfere negatively with human activity (Ross, et. al.)



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### Weeds? Characteristics

- a) abundant seed production;
- b) rapid population establishment;
- c) seed dormancy;
- d) long-term survival of buried seed;
- e) adaptation for spread;
- f) presence of vegetative reproductive structures; and
- g) ability to occupy sites disturbed by human activities

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### Weeds? Negatives

- a) reduced crop quality by contaminating the commodity;
- b) interference with harvest;
- c) serve as hosts for crop diseases or pests
- d) limit the choice of crop rotation and cultural practices
- e) production of chemical substances which are toxic to crop plants (allelopathy), animals, or humans

#### Weeds? Positives

- · soil stabilization and structure
- · habitat and feed for wildlife and beneficials
- · nectar for bees
- · aesthetic qualities
- · add organic matter
- provide genetic reservoir
- human consumption; and
- provide employment opportunities.





# Keeping Weeds Out Vehicles

- Who is driving through your vineyard
  - Where was the vehicle last night?
  - What is it carrying?
- · Farm machinery
  - Where is it housed
  - Contractors cleaning protocols



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	- entrancement
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### Keeping Weeds Out

Refuges

- What source of seed are on your property
  - Are you managing them
- · Creek lines and waterways
- · Road verges
  - Can you manage these?
- Adjoining properties
  - May need to focus management to on border



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# Keeping Weeds Out People

- Tourists
- Seasonal pickers and regular staff
  - What are they bringing with them
  - Where are they living
- Visitors
  - Crop scouts
  - Researchers



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### Many Little Hammers

- • Crop weed interference
- - Crop species/Cultivars
- - Seed size/quality
- - Transplant
- - Seeding rate
- - Row spacing/space
- - Resource placement
- - Nutrient source
- Stale seedbed

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