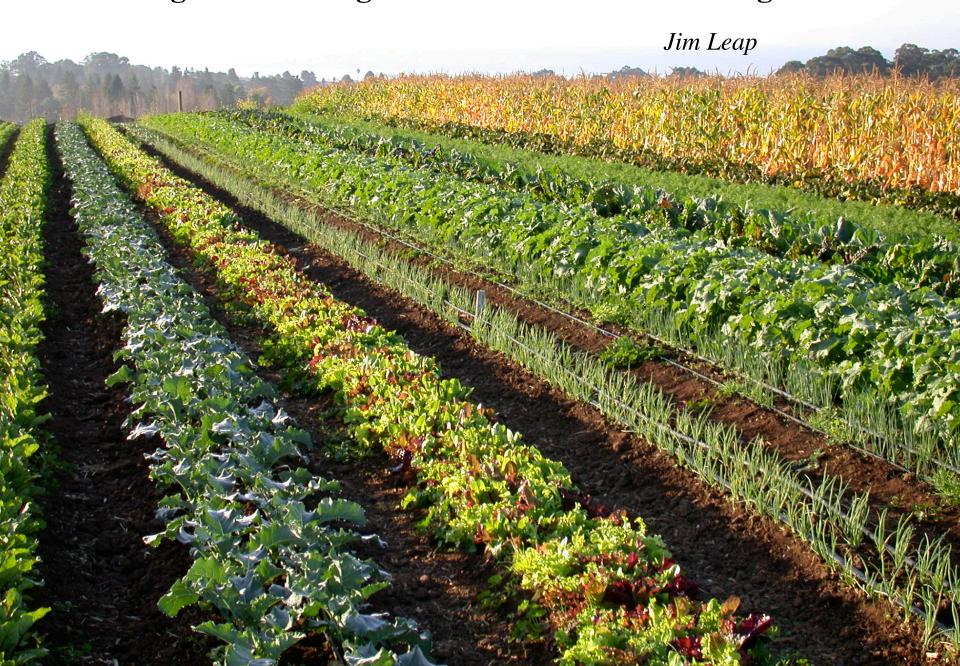
Weed management strategies for small-scale diverse organic farms



Good weed management involves:

- Timing
- Strategy
- Using all the tools in the toolkit
- Planning ahead

Good weed management will:

- Save time
- Save labor
- Improve profitability
- Increase yields

What is a "weed"?

Broad categories:

- Perennials
- •Annuals (spring, summer, fall, winter)
- •Biennials
- Broadleaf
- •Grasses
- •Semi aquatic
- •"Problem perennials"
- Noxious weeds

Where are all these weeds coming from?

- Wind
- Water
- Equipment
- Compost / soil amendments
- Potting mix
- Planting stock
- Animals
- Seeds produced on farm!

Weeds can be:

- Disease vectors
- Toxic to livestock
- Hosts to insect pests
- Extremely persistent
- Nearly impossible to eradicate
- Highly competitive
- Very easily introduced
- Extremely drought tolerant

Weeds can also be:

- Great indicators of soil conditions
- Excellent nutrient scavengers
- Great at providing beneficial insect habitat
- Great at keeping soil covered
- Great at improving soil quality





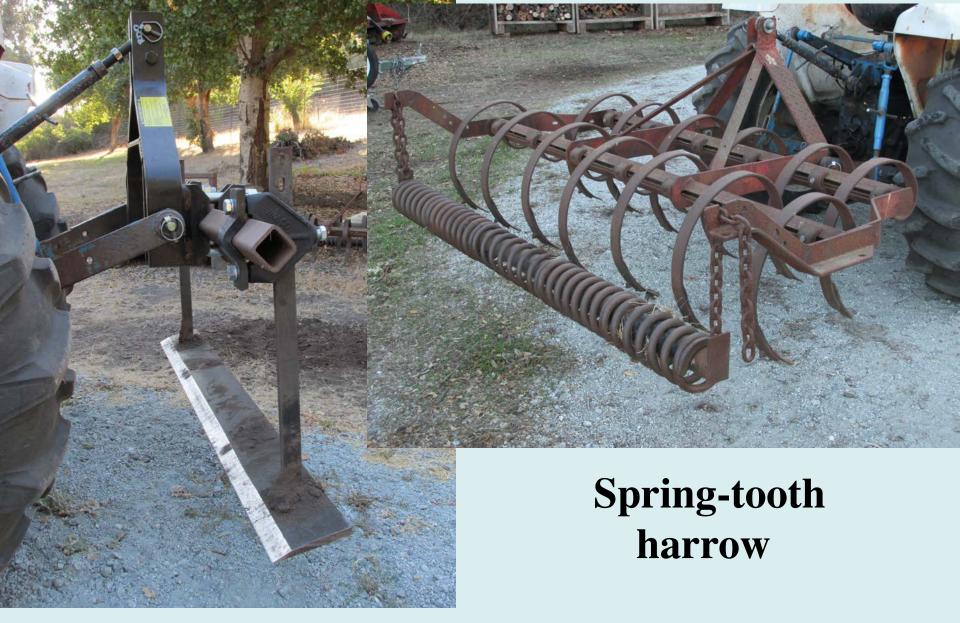






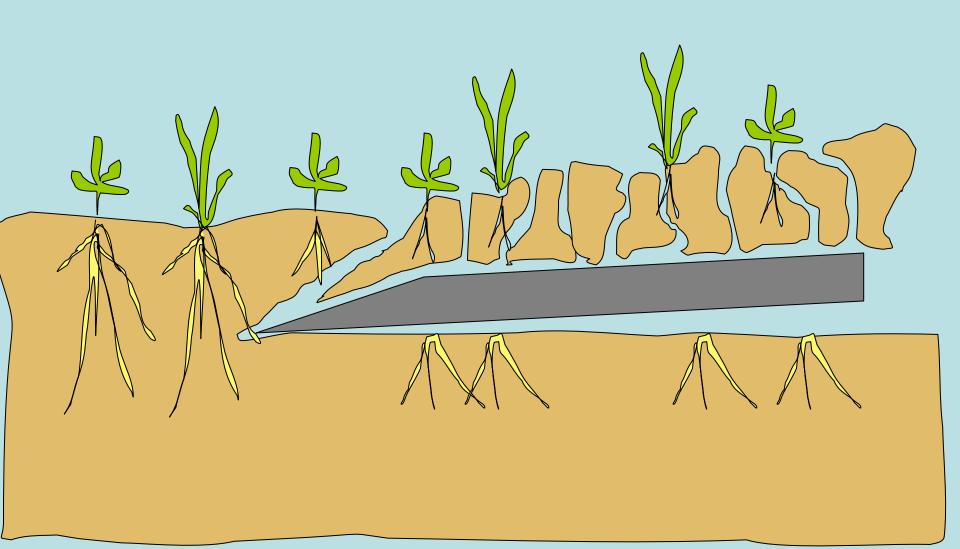






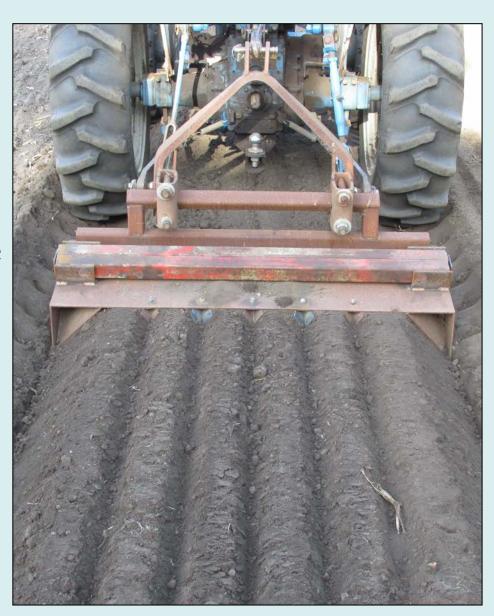
Under-cutter

Under-cutter blade



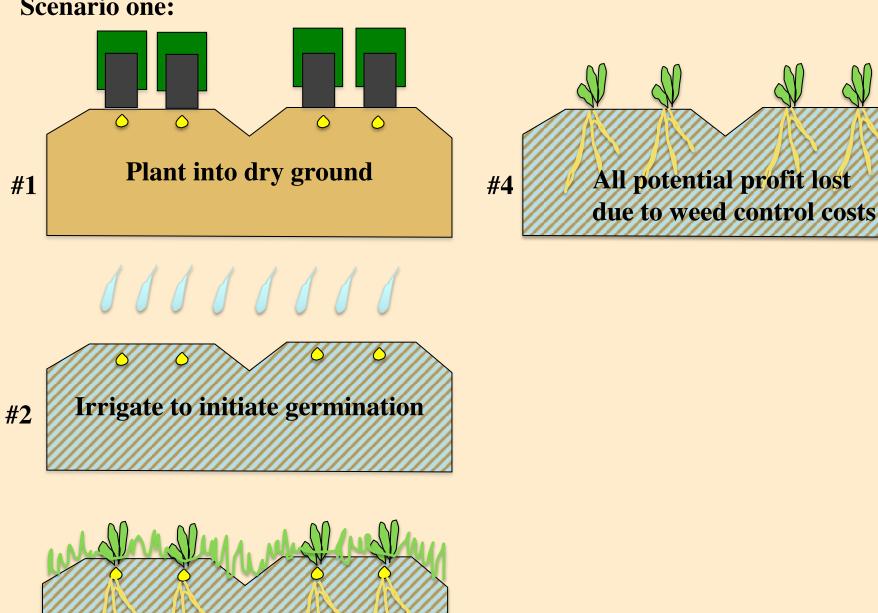
Attributes of a good seed bed:

- minimal clodiness
- good particle size
- stable aggregates
- minimal crusting
- good nutrient balance
- good drainage
- no perennial weeds
- minimal weed seed
- no plow pan
- uniform shape
- minimal compaction

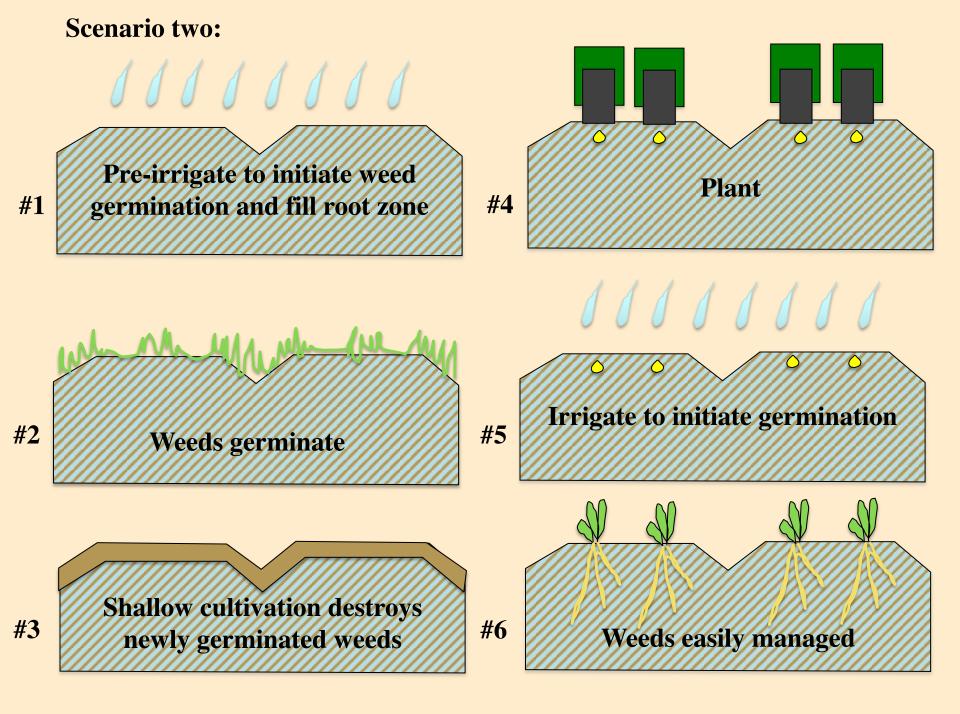


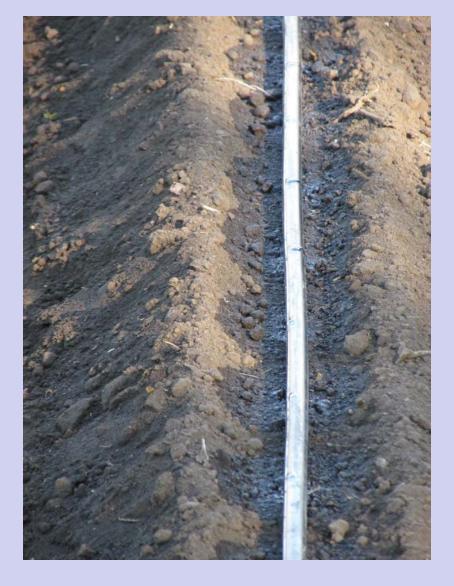
Scenario one:

#3



Crop and weeds germinate





Good for weed management



Bad for weed management



Good cover crop management is critical for good weed control.

Weed management strategies when planting cover crops

Plant dense stands

Plant early

Plant weed suppressive species (rye, mustard)

Plant to moisture

Plant cover crop on beds

Use drill to plant cover crop



Finger weeder

Score your weed management:

- 1. Crop rotation
- 2. Dense cover crop
- 3. Managed fallow
- 4. Crops planted on uniform beds
- 5. Effective use of mechanical cultivation
- 6. Use of pre-irrigation
- 7. Use of flame weeder
- 8. Prevention of weed seed set
- 9. Uniform and "leak free" irrigation
- 10. Use of transplants

