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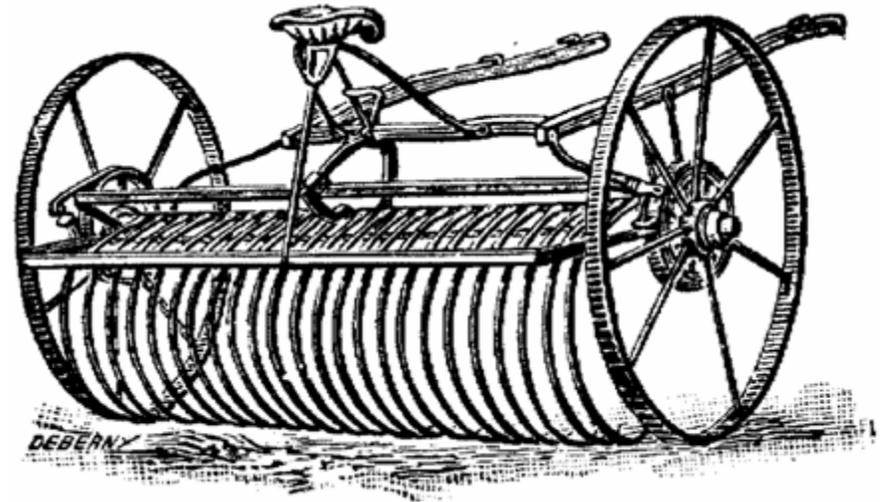
# Weed Identification and Control



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# Identification is very important!

- To determine which method of control
- To slow down reproduction
- to determine the best chemical



# Weed Classification

- **Annuals-** live and die in the same year
  - Germinate in March..
    - Pigweed
    - purslane
    - puncturevine
    - crabgrass
    - junglerice
    - nightshade
    - spotted spurge
    - maretail
    - knotweed
    - lambsquarters

# Weed Classification

- **Annuals -**

- Germinate in September..

- cheeseweed

- filaree

- mustard

- sherpherds purse

- bur clover

- annual bluegrass

- nettle

- groundsel

- sowthistle

- ryegrass

# Weed Classification

- **Perennials** – Live more than 2 years

- bermudagrass

- nutsedge

- dallisgrass

- johnsongrass

- bindweed

- curly dock

# Annuals can produce a lot of seeds!

- redroot pigweed 117,400
- purslane 52,.300
- shepherspurse 38,500
- curly dock 29,500
- sunflower 7,200
- wild oats 250





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Pigweed - 117,400 seeds



Purslane -(verdolaga) 52,300 seeds



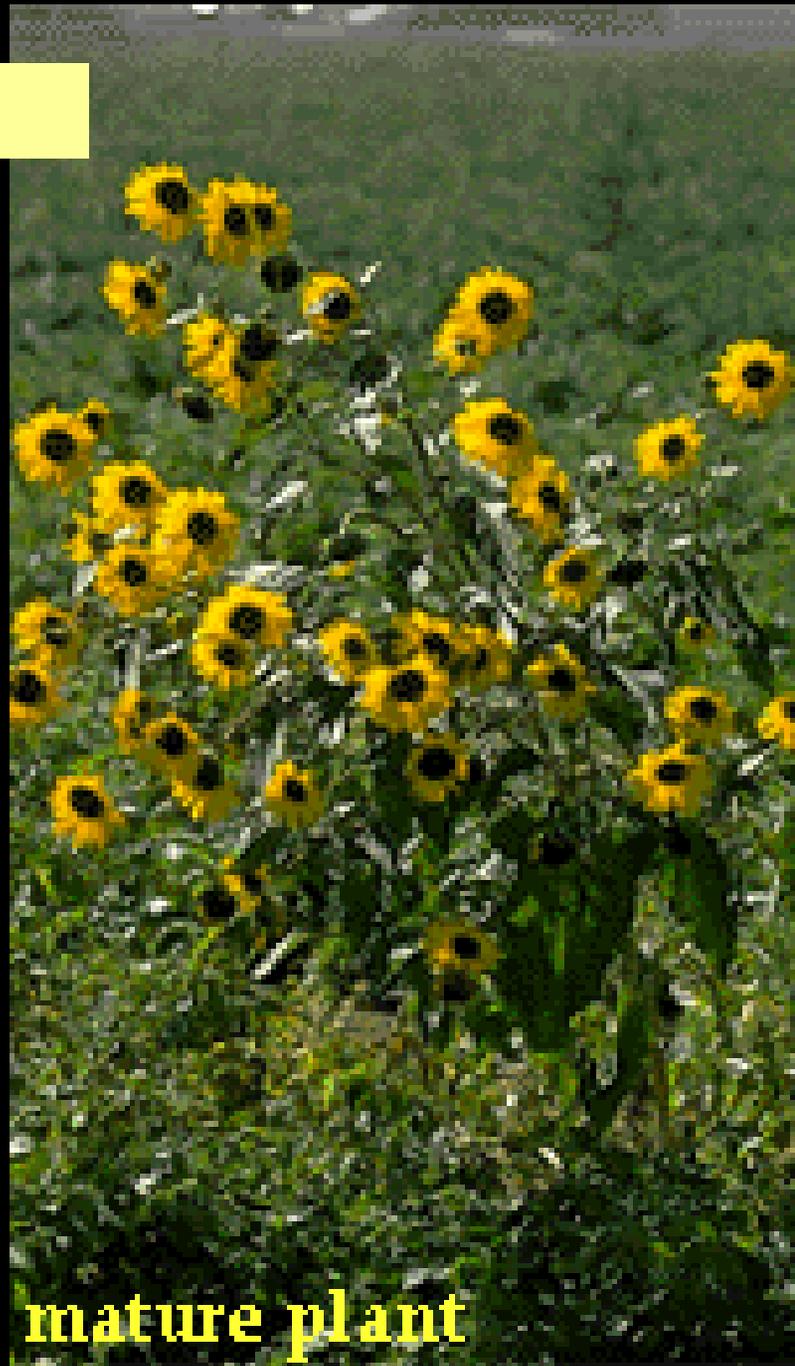
Shepherds purse -  
38,500 seeds



Sunflower 7,200 seeds



**seedling**



**mature plant**



Wild oats -

250 seeds

## Perennials reproduce from plant parts and from seeds

- yellow nutsedge - 1 tuber= 1,918 plants in 1 year
- johnsongrass – one plant produces 85' of underground stems in 14 weeks



Curly dock - 29,500 seeds

Seedlings



Mature plant



Johnsongrass

85 feet  
underground  
stems

Collar region



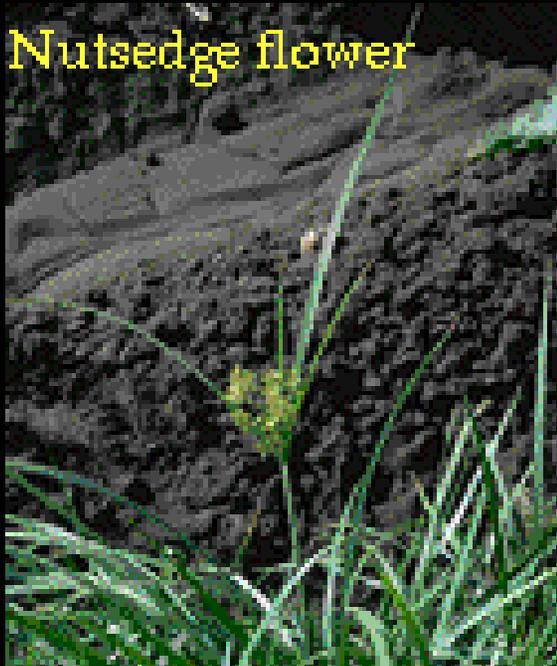
Underground stems



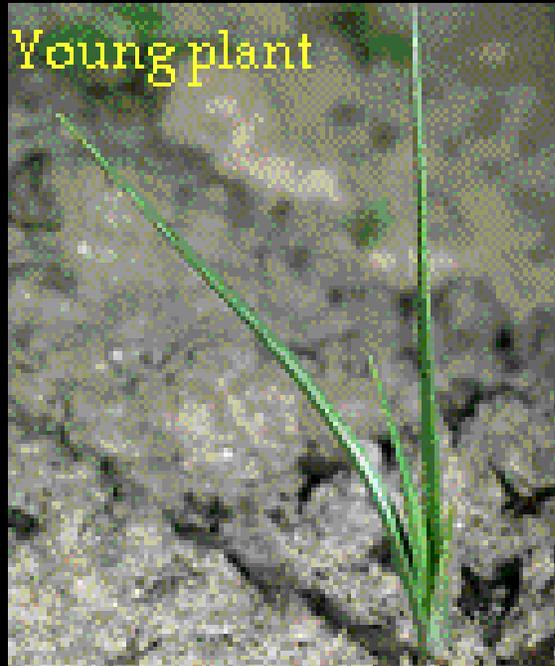
Yellow nutsedge tubers



Nutsedge flower



Young plant



Nutsedge -

1, 918 plants in 1 year

# Methods of control

- Field Equipment - rototiller, disc, hoe
- Plastic — black, brown, blue. green
- Transplants — cover the soil quicker making shade
- Crop rotation - sudangrass, clover
- Other — water, wait, then cultivate (or spray)
- Solarization — clear plastic for 4 weeks (in summer)
- Pesticides - pre-emergents,  
post-emergents,  
fumigants

Colored plastics are better to prevent germination of seeds



# Pesticides - pre-emergents

(to control seeds, applied to soil)

- Water or mechanical incorporation is needed to activate
- persist 3-6 months in the soil
- Goal
- DCPA
- Devrinol
- Treflan
- Eptam
- Surflan

# Dacthal –pre-emergent herbicide

- Needs to be activated within 3-5 days
- Registered for:
  - vegetables
  - Beans, blackeyes
  - Onion, garlic
  - Tomato, eggplant, pepper
  - Melons, cucumber, peppers

# Dacthal: weed susceptibility

seeds only

- **Difficult control**

- Filaree, henbit, cheeseweed, mustard, nettle, nightshade, london rocket, sowthistle, spurge

## **No control**

- burclover, cudweed, fleabane, groundsel, horseweed, prickly lettuce, radish, shepherds purse, willowherb

Bur clover



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A photograph of a cudweed plant growing in an orchard. The plant is tall and green with clusters of small white flowers. It is situated in a row of trees, with some orange fruit visible on the branches above. The ground is covered with dry leaves and mulch.

cudweed

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groundsel

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Horseweed or marestail



Prickly lettuce

# Pesticides - post-emergents

(to control growing plants)

- No water is needed to activate
- persist 0 months in the soil
- Roundup
- Gramoxone
- Poast
- Fusilade

# Roundup: weed suseptibility

growing plants only

- **Difficult to control**
  - Burclover, filaree, mallow

## **No control**

sweetclover, nettle

# Pesticides - fumigants

(to control plants and seeds)

- methyl bromide
- Vapam
- Telone (In Line)
- Chloropicrin

# Methyl bromide: weed susceptibility

- **Difficult to control**

- filaree

## **No control**

burclover, mallow, medic, sweetclover

# Vapam:

- **control difficult**
  - Pigweed, nightshade

## **No control**

burclover, mallow, medic, sweetclover