

Apple IPM Intensive Workshop

What are the major pests targeted by apple IPM? Weeds and Wildlife

Juliet Carroll

NYS IPM Program

Cornell Cooperative Extension

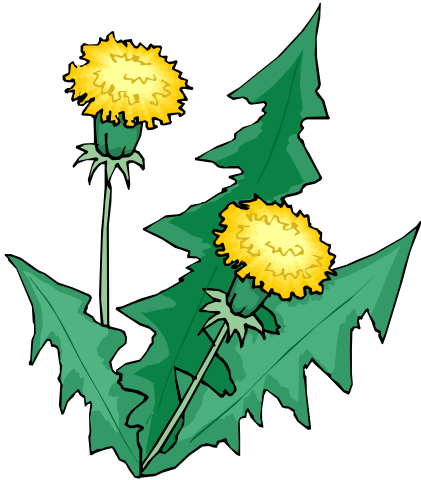




Groups of Weeds in Orchards

- Annuals
 - Grasses
 - Broadleaves
- Perennials
 - Grasses
 - Broadleaves
 - Woody plants and vines
 - Nutsedge

Scout, make a weed map, and list the weeds in your orchards.



Weeds by Life Cycle - Annuals

Photos by Dr. John Meade, Weed Scientist Emeritus

- Spread mostly by seeds, survive in the seed bank...
 - Summer, ex) pigweed, ragweed, crabgrass
 - Winter, ex) mustards, chickweed, henbit
 - Biennial, ex wild carrot, horseweed (marestail)



Weeds by Life Cycle - Perennials

Photos by Dr. John Meade, Weed Scientist Emeritus



- Spread by seeds and vegetatively
 - Simple, ex) dandelion, curly dock, Canada thistle
 - Creeping, ex) quackgrass, nutsedge, bindweed, clover
 - Woody, ex) poison ivy, wild grapevine, sumac





Photo courtesy of Steve Hoying.

A high density orchard planted with grass in the row middles.

- Fescues establish quickly, don't invade the row, don't compete with the trees, and provide good traction.
- Within the row, keep weeds under control to prevent competition with the tree during the months of May, June and July.



Major Wildlife Pests of Apples

Deer

- Browse on young trees, new growth, young branches
- Stunting growth and directly damaging tree

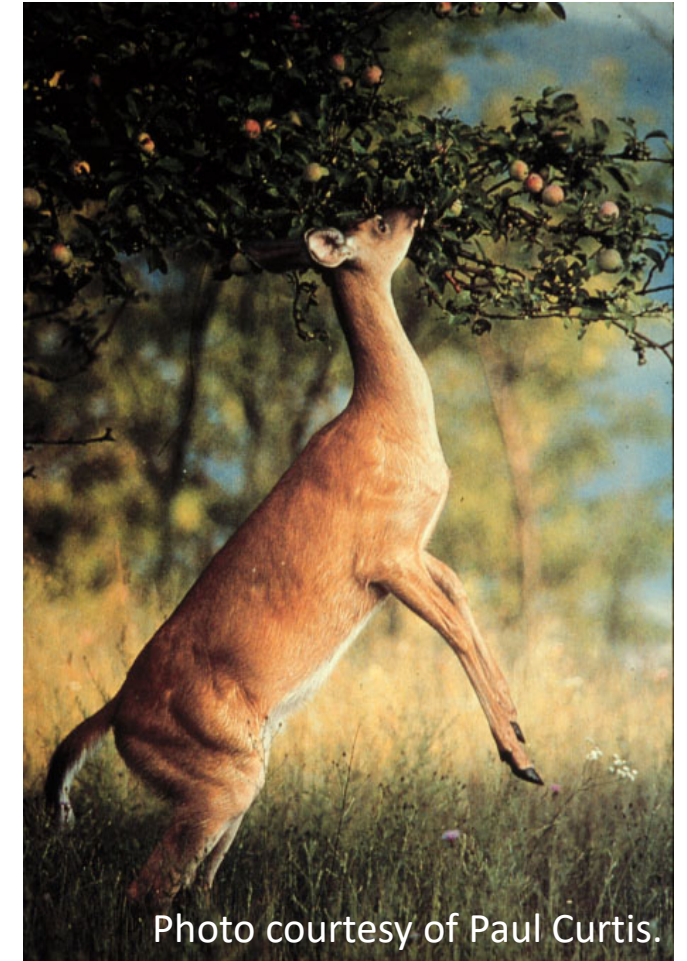


Photo courtesy of Paul Curtis.



Major Wildlife Pests of Apples

Voles: meadow vole & pine vole

- Girdle young trees and are active year-round.
- Promoted by thick and weedy orchard floor.



Photo courtesy of Paul Curtis.



Major Wildlife Pests of Apples

Cottontail Rabbits

- Will girdle trees and limbs and will eat small branches.
- Damage may be above winter snow cover.



Photo courtesy of Paul Curtis.



Major Wildlife Pests of Apples

Woodchucks

- Create burrows in the orchard that can pose a hazard to workers and equipment.
- Burrows close to trees can affect tree health.



Photo courtesy of Paul Curtis.