



Green peach aphid, Myzus persicae









Green peach aphid management

Key insect/plant characteristic – within plant aphid distribution

1070's –1980's – dimethoate applied based only on plant size; phosdrin available for rescue; pyrethroids

Risks – not based on IPM practices OP chemistry

Benefits – none (dimethoate and phosdrin were generally ineffective on spinach; pyrethroids could cause aphid population increase)

Use of older chemistry abandoned

Dimethoate no longer used

Phosdrin registration cancelled

New aphicides developed

Aphistar – 10 years of development but never registered

Imidacloprid – initial U.S. registration in 1994; mostly effective against GPA on spinach due to toxicity and systemic activity; may also be applied to soil and taken up by the plant; risk to honeybees

Current GPA management

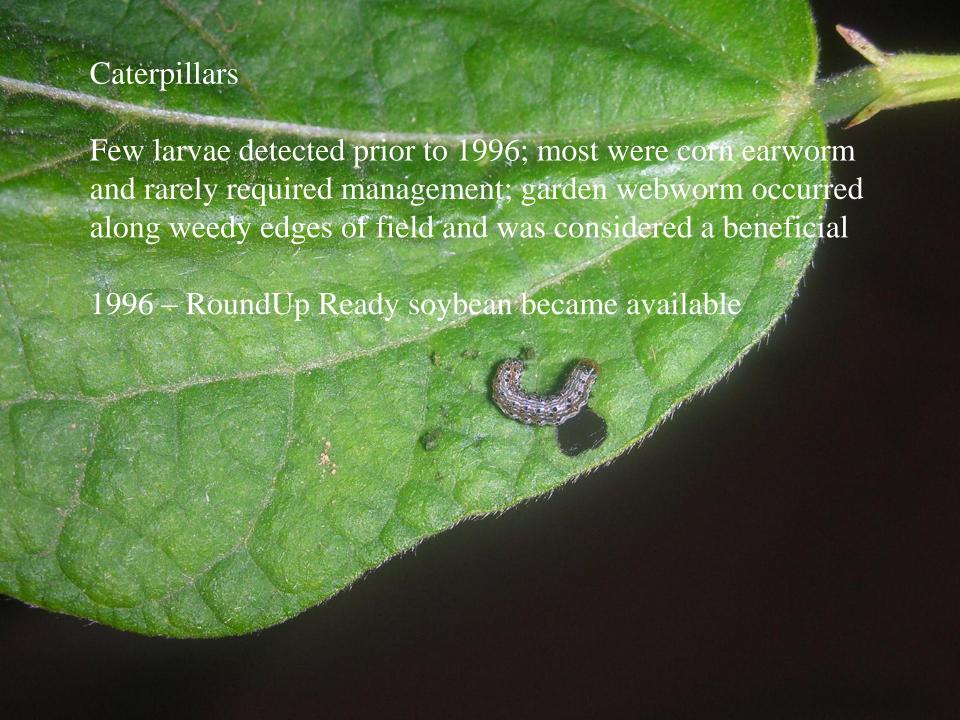
Most effective is to scout for aphids and apply imidacloprid or other neonicotinoid insecticide when 5 GPA are detected per inner spinach leaf







Other methods of application include soil injection and seed treatments





Common caterpillars since mid-1990's











