Insect Management on Garden Tomatoes









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Topics

- This 5-minute slideshow:
 - -Overview of tomato pests
 - -Specifics on 4 pests
 - -Summary of management options
- 25-minute narrated slideshow:
 - -Posted as resource for webinar
 - How to identify tomato pests
 - -How to manage tomato pests









Tomato Pests:

no key pest but many occasional pests

Fruit	Leaves, stems
 Hornworms * Stink bugs Fruitworm Cutworms Armyworms Grasshoppers 	 Hornworms Aphids * Whiteflies * Spider mites * Colorado potato beetle Blister beetles Flea beetles Stalk borer

Hornworms





Consume leaves



Gnaw on fruit

- Beware of camouflage
- Look for canopy top mowed off

Hornworm biocontrol



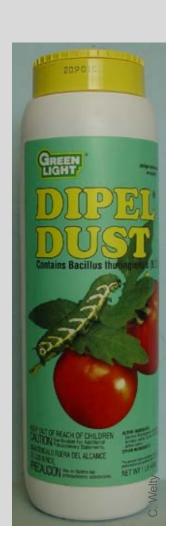
• Tiny parasitoid wasp: Cotesia congregata



Hornworm management



- Mechanical: hand removal
- Encourage biocontrol
 - -Avoid broad insecticides
- Use microbial insecticide (B.t.)
 - -Spray or dust
 - -'Dipel' or 'Thuricide'





Aphids









- Suck sap from leaves
- Many natural enemies
 - Encourage by not using broad-spectrum insecticides
- Suffocate with spray of insecticidal soap



Whiteflies







- Suck sap from leaves
- Damage done by immature nymphs on leaf undersides
- Need magnifier for eggs, nymphs
- Control by insecticidal soap

Two-spotted spider mite







- Suck sap
- Make webbing
- Hot dry weather
- Natural predators
- Sprays:
 - Insecticidal soap
 - Insecticidal oil







Summary: Managing Tomato Pests

- Scout weekly
 - -For sporadic pests
 - -Early detection is goal
 - -For natural enemies

Summary: Managing Tomato Pests

- Control tactics
 - -Hand removal useful
 - By hand picking
 - By tapping over bucket
 - By aspirating
 - -Insecticide
 - Generally none needed
 - Microbial (B.t.) useful
 - Insecticidal soap useful



the end