

Insect Pest Management on Tomato

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Scouting, pre-fruiting: examine 40 whole plants/field

Scouting, after fruit set: 40 sets of 10 fruit; 40 leaflets; 40 canopy taps onto white tray

Category	Species	Monitoring/Threshold	Management tactics
Common fruit pests	stink bugs	Scouting threshold: 1 plant with fresh damage per 40 plants; scout early in field adjacent to wheat	Spray pyrethroid
	hornworms	Scouting threshold: 2 hornworm larvae per 40 plants	Spray B.t. (Dipel, etc.)
Common foliar pests	potato aphid	Scouting threshold: 0.5 aphid per leaflet	Spray Dimethoate, Assail, or Admire Pro
	hornworms	Scouting threshold: 2 hornworm larvae per 40 plants	Spray B.t. (Dipel, etc.)
Sporadic fruit pests	Variegated cutworm	Pheromone trapping: use standard unitrap (bucket trap) or sticky trap Scouting threshold: 4 plants with damage per 40 plants	Spray pyrethroid
	Tomato fruitworm	Pheromone trapping in large white cone net 'Heliothis' trap Scouting threshold: 1 infested plant per 40 plants	Pyrethroids can work for low density populations but not when pest population is large. Alternatives: Avaunt, Proclaim, Radiant, Coragen, Synapse
	Yellow-striped armyworm	Scouting threshold (tentative): 1 infested plant per 40 plants	
	Fall armyworm	Pheromone trapping: use all-green unitrap (bucket trap) or sticky trap	
	Beet armyworm	Pheromone trapping: use standard unitrap (bucket trap) or sticky trap	Pyrethroids not effective. Use Avaunt, Proclaim, Radiant, Intrepid
	Cabbage looper (pupae)	Scouting threshold: 0.5 caterpillar per plant, only after plants have fruit	
	Grasshoppers	Scout in late summer and in droughty years.	
	Thrips (& tomato spotted wilt virus)		
Sporadic foliar pests	Spider mites	Tap leaves over white paper	Spray Agri-Mek, or Acramite or Oberon
	Whiteflies		
	Flea beetles	Scouting threshold: 4 per young plant	Spray Sevin or pyrethroids
	Colorado potato beetle	Scouting threshold: 0.5 adult per young plant	
	Stalk borer		Prune infested stems.
	Blister beetles		
Cutworms			