

GRAPE PLANT SYMPTOMS, SCOUTING METHODS AND PEST IDENTIFICATION

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Plant Symptoms	When and How to Scout	Pest Identification	Pest Name
Scale on trunk or cane	Winter pruning - flag infested vines; Spray with 2% dormant oil by bud swell May - check for crawlers under scale cover or on sticky tape on infested canes; Spray vines while crawlers are present	<u>Adult</u> <1/16", bark color to gray; <u>Crawler</u> <1/16", legs, yellow	Grape scale
Hole chewed in swelling bud	Bud swell - check 100 buds for damage by caterpillar (night) or beetle (day); Spray if > 1% bud damage	<u>Caterpillar</u> , 1-1/4", brown, brown head <u>Beetle</u> , 1/8", shiny black	Climbing cutworms Grape flea beetle
Berries with holes, skin turning purple with larva under skin	April 1 , hang sex pheromone trap along woods, accumulate degree days (DD) after 1 st moth catch, check 300 clusters for damage; Spray if > 1% damage during 400-800 or 1300-1700 or > 2200 DD	<u>Caterpillar</u> , ½", yellow-green to brown, amber head; <u>Moth</u> , 3/8", gray band at wing base	Grape berry moth
Galls on leaves or low vine vigor or vine death	Early May , look for crawlers in leaf galls on Chambourcin, Chardone, Norton, Seyval, Vignoles & Vidal blanc; Spray foliage while crawlers present in May	<u>Adult</u> in gall or on root, 1/32", yellow, legless; <u>Crawler</u> , 1/32", yellow, 6 legs	Grape phylloxera
White spots on leaves of susceptible cultivars	May on - check 100 leaves for nymphs - Spray if > 10 nymphs per leaf	<u>Adult</u> , 1/8", orange-yellow <u>Nymph</u> , no wings, white to yellow	Grape leafhopper
Holes in leaves in upper 3 rd of canopy	Mid June & July - watch for adults on leaves Spray only susceptible cultivars	<u>Adult</u> , ½" long, brown wings, green head & white dots on abdomen	Japanese beetle
Plant vigor declining or vine dead and roots with tunnels filled with brown/maroon frass	15 June - put sex pheromone trap in vineyard to detect moths; Late July & late August check 100 vines for pupal skins on soil by trunk in each vineyard	<u>Moth</u> , 1", tan to brown, 4 thin hairs on tip of abdomen, feathered antenna; <u>Caterpillar</u> , 1-1/2", white, legs, <u>Pupal skin</u> , 1" long & dark amber	Grape root borer