

SWA - Annual calendar of vineyard events: 2021

1) January

- a) Vineyard stage
 - i) Dormant
- b) Vineyard activities
 - i) Initial pruning
 - (1) Fungal disease cut-back
 - ii) Tying
 - iii) Trellis Repair
 - iv) Manual or chemical weed control
- c) Irrigation
 - i) Repairs
 - ii) Sodic soil flush after senescence
 - iii) Only irrigate if root zone dries
- d) IPM
 - i) Monitor / Treat argentine ants
 - ii) Mealybug scouting Egg clusters and crawlers
 - iii) Pull PD other diseased / dead vines
- e) SWAT
 - i) Annual calendar of events review
 - ii) Mealybug scouting
 - iii) Soil Flush
- f) Other

SWA - Annual calendar of vineyard events: 2021

2) February

- a) Vineyard stage
 - i) Dormant
- b) Vineyard activities
 - i) Final Pruning of early varieties (Tears of joy no crying)
 - ii) Tying
 - iii) Broadcast and banding fertilizers
 - iv) Manual or Chemical weed control
- c) Irrigation
 - i) Only irrigate if root zone dries
- d) IPM
 - i) Monitor / Treat Argentine ants
 - ii) Mealy Bug pheromone traps every 2 weeks
 - iii) GWSS traps check every 2 weeks
 - iv) Pre-bud break fungicide if needed – always in areas prone to Eutypa immediately after final prune
 - v) Gopher control traps or bait
 - vi) Branch and Twig Borer examine during final prune Remove infected dead wood
- e) SWAT
 - i) Pruning class
 - ii) Mealy bug and GWSS monitoring class
 - (1) Pheromone placement
- f) Other
 - i) Order beneficial insects through co-op

SWA - Annual calendar of vineyard events: 2021

3) March

- a) Vineyard stage
 - i) Dormant / Bud break
 - ii) Frost danger
- b) Vineyard activities
 - i) Final Pruning (Tears of joy no crying)
 - ii) Tying
 - iii) Broadcast and banding fertilizers
 - iv) Manual or chemical weed control
- c) Irrigation
 - i) 100% ETO after 70% PAW
 - ii) Install water sensors
- d) IPM
 - i) Monitor / Treat argentine ants
 - ii) Mealy Bug pheromone traps every 2 weeks
 - iii) GWSS Traps
 - iv) Gopher control (Barn owls & Kestrels lay eggs) /Traps
 - v) Ground Squirrel feeding stations
 - vi) Branch and Twig Borer examine during final prune Remove infected dead wood
 - vii) Powdery Mildew - Fungicides - Oils and sulfurs can be used
 - (1) PM Index
- e) SWAT
 - i) Sprayer Tec
 - ii) Early Insects
 - iii) Bloom fertility

SWA - Annual calendar of vineyard events: 2021

4) April

- a) Vineyard stage
 - i) Bud break
 - ii) Rapid shoot growth early varieties
 - iii) Frost danger - Last frost April 15 in Temecula
- b) Vineyard activities
 - i) Pruning Final (Tears of joy no crying)
 - ii) Suckering, shoot thinning
 - iii) Broadcast and banding fertilizers
 - iv) Manual or Chemical weed control
 - v) Fruit set fertigation / Foliar feed
 - (1) N (NH₄ and amines, <5 units), Boron, Copper, Zinc, Molybdenum, Iron
 - vi) Petiole Tests pre fruit set
 - vii) Mow or cultivate – cultivation not recommended
- c) Irrigation
 - i) 100% ETO after 70% PAW
- d) IPM
 - i) Monitor / Treat Argentine ants
 - ii) Mealy Bug
 - (1) Mealy Bug pheromone traps every 2 weeks
 - (2) Pheromone disruptor
 - (3) Mealy bug destroyer, *Cryptolaemus montrouzieri*
 - iii) GWSS Traps
 - iv) Gopher control (Barn owls & Kestrels lay eggs rearing young) /Traps
 - v) Ground Squirrel feeding stations
 - vi) Fungicides - Oils and sulfurs can be used
 - (1) PM Index
- b) SWAT
 - i) Vineyard Planning
 - ii) Mealy Bug & GWSS IPM
 - iii) Irrigation
 - (1) Water sensors
- c) Other
 - i) TVWGA Grape Days April 23

SWA - Annual calendar of vineyard events: 2021

5) May

- a) Vineyard stage
 - i) Rapid Shoot growth
 - ii) Flowering
 - iii) Fruit set
- b) Vineyard activities
 - i) Suckering, shoot thinning
 - ii) First wire / tie shoots
 - iii) Petiole Tests post fruit set
 - iv) Fruit set fertigation / Foliar feed
 - (1) N (NH₄ and amines, <5 units), Boron, Copper, Zinc, Molybdenum, Iron
 - v) Potassium and Phosphorous fertigation / foliar if needed (No nitrogen)
 - vi) Mow or cultivate – cultivation not recommended
 - vii) Vineyard planting / Replanting
- c) Irrigation
 - i) 100% ETO
- d) IPM
 - i) Monitor / Treat Argentine ants
 - ii) Mealy Bug
 - (1) Mealy Bug pheromone traps every 2 weeks
 - (2) Applaud usually early May sign of first crawlers
 - iii) GWSS
 - (1) Traps
 - (2) Imidacloprid full dose
 - iv) Gopher control (Barn owls & Kestrels rearing young) /Traps
 - v) Scout / treat Leaf Skeletonizer
 - vi) Powdery Mildew Fungicides (oils and sulfur only if below 90deg F for 24 hours)
 - (1) PM Index
 - vii) Botrytis and Sour rot Fungicides
- e) SWAT
 - i) Gophers
 - ii) Tying young plants
 - iii) Mealy Bug trap identification
 - iv) GWSS Trap identification
- f) Other

SWA - Annual calendar of vineyard events: 2021

6) June

- a) Vineyard stage
 - i) Rapid Shoot growth
 - ii) Verasion
 - iii) High heat danger
- b) Vineyard activities
 - i) Shoot thinning, Leaf thinning (Heat caution)
 - ii) Second wire / tie shoots
 - iii) Fruit drop
 - iv) Petiole Tests post fruit set - Potassium and Phosphorous
 - v) Nitrogen (light), Potassium and Phosphorous fertigation / foliar if needed
 - vi) Mow or cultivate – cultivation not recommended
 - vii) Vineyard planting / Replanting
- c) Irrigation
 - i) 100% ETO or deficit
- d) IPM
 - i) Mealy Bug
 - (1) Mealy Bug pheromone traps every 2 weeks
 - (2) First Movento application
 - ii) GWSS Traps
 - iii) Gopher control (Barn owls rearing young) / Traps
 - iv) Ground Squirrel feeding stations
 - v) Scout / treat Leaf Skeletonizer
 - vi) Ground Squirrel feeding stations
 - vii) Powdery Mildew Fungicides (oils and sulfur not recommended)
 - (1) PM Index
 - viii) Botrytis and Sour rot Fungicides
 - ix) Scout for Eutypa, & Esca symptom, send samples out for Culture & Microscopy
- e) SWAT
- f) Other

SWA - Annual calendar of vineyard events: 2021

7) July

- a) Vineyard stage
 - i) Verasion – Lag phase
 - ii) High heat danger
 - iii) Summer monsoon rain danger
 - (1) Sour rot
- b) Vineyard activities
 - i) Leaf thinning for ripening (Heat caution)
 - ii) Fruit thinning
 - iii) Nitrogen, Potassium and Phosphorous fertigation / foliar if needed
 - iv) Prepare for harvest
- c) Irrigation
 - i) 100% ETO or deficit
- d) IPM
 - i) Monitor / Treat argentine ants
 - (1) Scout / treat Leaf Skeletonizer
 - ii) Mealy Bug
 - (1) Mealy Bug pheromone traps every 2 weeks
 - (2) Second Movento application
 - iii) Gopher control (Barn owls & Kestrels first tuition payment due)
 - iv) Bird netting / falcons
 - v) Powdery Mildew Fungicides (oils and sulfur not recommended)
 - (1) PM Index
 - vi) Botrytis and Sour rot Fungicides
- e) SWAT
- f) Other
 - i) Large order vines for following year

SWA - Annual calendar of vineyard events: 2021

8) August

- a) Vineyard stage
 - i) Harvest
 - ii) High heat danger
 - iii) Summer monsoon rain danger
 - (1) Sour rot
- b) Vineyard activities
 - i) Harvest
 - (1) Pre harvest fruit drop of damaged fruit
 - ii) Potassium and Phosphorous fertigation if needed for late harvest
 - iii) Leaf thinning for ripening (Heat caution)
 - iv)
- c) Irrigation
 - i) 100% ETO or deficit
 - ii) Post-Harvest Big Drink than 70% ETO big drink
- d) IPM
 - i) Monitor / Treat argentine ants
 - ii) Flag Mealy bug and other insect damage noticed during harvest
 - iii) Mealy Bug pheromone traps every 2 weeks
 - iv) GWSS Traps
 - v) Scout / treat Leaf Skeletonizer
 - vi) Ground Squirrel feeding stations
 - vii) Bird netting / falcons
- e) SWAT
- f) Other

SWA - Annual calendar of vineyard events: 2021

9) September

- a) Vineyard stage
 - i) Late harvest / Post-harvest / root set / Nutrient loading
 - ii) High heat danger
- b) Vineyard activities
 - i) Harvest
 - ii) Potassium and Phosphorous fertigation if needed
 - iii) Harvests
 - iv) Fall fertigation
 - v) Soil Teats
- c) Irrigation
 - i) Post-Harvest Big Drink than 70% ETO big drink
- d) IPM
 - i) Monitor / Treat argentine ants
 - ii) Scout Test for PD and Red Blotch
 - iii) Mealy Bug pheromone traps every 2 weeks
 - iv) GWSS Traps
- e) SWAT
- f) Other

SWA - Annual calendar of vineyard events: 2021

10) October

- a) Vineyard stage
 - i) Late harvest / Post-harvest / root set / Nutrient loading
- b) Vineyard activities
 - i) Final Harvests
 - ii) Fall fertigation
 - (1) N (fish) Seaweed micro nutrient blend, Available Ca
 - (2) K- Potassium (never with Ca)
 - iii) Weed control
 - iv) Vine count replacement count
- c) Irrigation
 - i) Post-Harvest Big Drink than 70% ETO big drink
- d) IPM
 - i) Monitor / Treat argentine ants
 - ii) Mealy Bug pheromone traps every 4 weeks
 - iii) GWSS Traps
 - iv) Scout for Pierced Disease (xf) and Red Blotch symptom, send samples out for PCR
- e) SWAT
- f) Other
 - i) Vine order replacements

SWA - Annual calendar of vineyard events: 2021

11) November

- a) Vineyard Stage
 - i) Post-harvest / root set / Nutrient loading
- b) Vineyard activities
 - i) Tying
 - ii) Broadcast fertilizers
 - (1) Balance Cation macronutrient Ca- Calcium, Mg- Magnesium(usually excess) , K- Potassium, P (P_2O_5) Phosphate
 - (2) Anion macronutrient P (P_2O_5) Phosphate (soft rock or organically bound), N
 - (3) Micronutrients, Boron, Copper, Zinc, Molybdenum, Iron + micro blend
 - iii) Compost
 - iv) Plant cover crops
 - v) Deep ripping wheel tracks
 - vi) Open low-lying air draining
- c) Irrigation
 - i) Flush / Acid / Winterize
- d) IPM
 - i) Monitor / Treat Argentine ants
 - ii) Install Owl / Kestrel boxes
- e) Mealy Bug pheromone traps every 4 weeks
- f) SWAT
 - i) Year in review / upcoming CY plan
- g) Other
 - i) Vineyard Team sustainable viticulture conference – San Luis Obispo
 - ii) SoCal Farmers Summit – Encinitas CA

SWA - Annual calendar of vineyard events: 2021

12) December

- a) Vineyard stage
 - i) Dormant
- b) Vineyard activities
 - i) Initial pruning
 - (1) Fungal disease cut-back
 - ii) Drop wire
 - iii) Compost
- c) Irrigation
 - i) Major repairs
 - ii) Only irrigation if root zone dries
 - iii) Flush irrigation system (Acid if Calcium buildup)
 - iv) Winterize exposed parts
- d) IPM
 - i) Clean owl boxes
- e) SWAT
 - i) Holiday party
- f) Other