





Chelan – Douglas Counties Horticultural Pest and Disease Boards

SUGGESTED SPRAY SCHEDULE FOR HOME GARDEN APPLES – 2019 Edition

| Growth Stage | Description | Target Information | Chemical Sprays | Important | | |
|-----------------|--|---|---|---|--|--|
| Delayed-Dormant | In late winter, just as buds begin to show first green tissue. | > Spray when daytime temperature is between 45 – 55 F, with no frost forecast overnight. Finish spraying by noon to insure good dry time. Spray for over-wintering scales, aphids, and mites. Oils are not effective against woolly apple aphids | Products available under a variety of labels. Follow directions on label carefully to avoid plant damage. U.R. rate of 92% or more. | This is the most important stage and chemical spray to control pests. | | |
| | | Manage pests as they hatch in early spring. | ➤ See "Pink" | | | |
| Pink | Just as flower clusters open, but before flowers open. | > Powdery mildew control. | All season horticulture oil (Ex. R-T-U Year Round Spray Oil) Sulfur (Ex. Lilly Miller Sulfur Dust Fungicide/Insecticide Dust or Spray) | Do not use horticulture oil if using sulfur at any time of year. It can be toxic. | | |
| | | Hatching insect pests such as mealybug, lygus bug, stinkbug, aphid, mites. | Potassium laurate (Ex. Safer Brand Insect Killing Soap Conc); Acetamiprid (Ex. Ortho Flower, Fruit & Vegetable Insect Killer), Esfenvalerate (Ex. Monterey Bug Buster II RTS) | Do not apply sulfur spray to Delicious varieties at this time as severe fruit drop can occur later. * Make sure spray covers top | | |
| | | Feeding caterpillars such as leaf rollers, army or cut worms | Spinosad (Ex. Monterey Garden Insect Spray); Bacillus thuringiensis (Bt) (Ex.Fertilome Dipel Dust) | and bottom of leaves. | | |
| Bloom | When flowers are open. | Avoid pesticide application during bloom to protect honeybees!!!!! | | | | |
| | Just after petals | > Powdery mildew | > All season horticulture oil | Do Not Use horticultural oil | | |

(Continued on back)

| Petal Fall | fall from | Critical time for | • | ➤ See "Pink" section above | if Sulfur was used in "Pink". |
|--|---|--|--|--|-------------------------------------|
| | blossoms. | of insect pests lis | | | |
| Late Spring & Early Summer Additional Information | Starting 17-21 days after full bloom. Keep protected through August/mid- September. Reapply after brief, heavy rainfall or showers of longer duration, then Codling moth "Stings"- shallow entries made on surface of fruit. Treat "stung" apples as source of codling moth by removing infested apples from the tree, seal in black garbage bags. Leave in sun for | PRIMARY Pl spraying of fru after petal fall. First generation another 6 week Follow spray s ➤ Esfenvaler Monterey Ga Eight Insect of | EST OF APPLES. Start preventative at 17-21 days after full bloom or 10 days after full bloom or 10 days PRAY TIMING IS CRITICAL—In lasts 6 weeks, second generation live as. Protect during this entire period. Schedule on label. The cate (Monterey Bug Buster II); Spinosad (Exarden Insect Spray); Permethrin (Ex. Bonide Control Garden and Home RTU), Acetamiprolower, Fruit & Vegetable Insect Killer). | the egg laid by the codling moth will hatch and the worm will enter the apple and be protected from the sprays. Handle infested apples as described at left under | |
| | for responsib ♦ Aphids – Selo | worms. Apple maggot Read this guide care le use of any pesticid dom build up to damage | ♦ Follow spr fully. Read the e. THE LABEL | as above for codling moth. ray schedule on label for apple maggot. product label directions carefully. R | ead and follow all label directions |
| | ✓ Pesticide resistance – Vary products during the season and in following seasons to minimize pest resistance. ✓ Too much fruit to handle – Cut down tree and purchase quality fruit for use. Help commercial orchards by maintaining good care and pest management practices for your desired fruit trees!!! ✓ Further information – Contact WSU Chelan County Extension at (509) 667-6540 or our website at http://county.wsu.edu/chelan-douglas/GARDENING/MG/Pages/default.aspx ✓ Trade name disclaimer – Use of trade names are for example purposes only. No endorsement is intended. Other appropriately labeled products containing similar active ingredients should provide similar levels of control. | | | | |