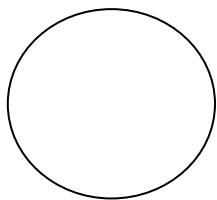


SPRAY SCHEDULE YEAR 2022

(Peach, Plum, Apricot & Almond)



**Department of Horticulture,
Himachal Pradesh, Shimla-2
and
Dr. Y. S. Parmar University of
Horticulture and Forestry, Nauni,
Solan (H.P.)**

Spray Schedule for the control of Insect-pest/diseases of Peach, Plum & Apricot for the year 2022.

S. No.	Time/stage	Pesticide Name	The amount of pesticides for 200 Lt of Water	Pest and Disease Management
1	White bud state	Dormant oil + Carbendazim* or Copper oxychloride	4 litres + 100 grams/600 grams	Sánjose Scale, Lecanium Scale and Leaf curl disease
2	Pink bud stage	Oxydemeton-methyl or Dimethoate	200ml	Leaf curl aphid
3	May	Captan* or Mancozeb* or Propineb + Monocrotophos* + copper oxychloride + Streptocycline	600 grams/600 grams/600 grams + 600 grams + 20 grams	Brown Rot. Scale, leaf and fruit-eating insect gummosis
4	June (15 days before plucking fruit)	Bait Spray (Malathion* + Jaggery)	(400 ml + 2 kg)	Fruit Fly
5	July August	Copper oxychloride + Streptocycline	600 grams + 20 grams	Canker and bacterial gummosis etc.
6	Use essential essence of Mashobra paste for the treatment of gum seeping from the stems and branches			

Spray Schedule for the control of Insect-pest/diseases of Almond for the year 2022.

S. No.	Time/stage	Pesticide Name	The amount of pesticides for 200 Lt of Water	Pest and Disease Management
1	Pre-white bud stage	Dormant oil	4 litres	Sanjose scale
2	Pink bud stage	Copper oxychloride + Streptocycline + Oxydemeton methyl	600 grams + 20 grams + 200 ml	Bacterial leaf spot and gummosis, leaf curl aphid
3	15 days after planting	Boric acid	200 grams	To prevent gum on fruits
4	May-June	Hexaconazole	100 ml	Rust disease
5	July-August	Copper oxychloride or Propineb or Mancozeb* or Hexaconazole	600 grams or 600 grams or 600 grams or 100 ml	Rust disease
7.	Use essential essence of Mashobra paste for the treatment of gum seeping from the stems and branches			

Notes:

1. The above table is suggested for the emergence of diseases / insects in a strong form. In case of extreme drought, spraying of pesticides can be reduced as per the appearance of the insect/diseases.
2. Hexaconazole 100 ml after the symptoms appear for the prevention of rust disease or Vitranol 100 grams or Triadimefon 100 milliliters. Spray every 200 litres of water and repeat it after 20 days.
3. Press the fruit fly, collect the insect infested and fallen fruit into a deep pit, also install Methyl Euginol lure to manage fruit fly.
4. Mashobra paste must be applied at the end of dormancy period and before the onset of monsoon season for the control of Bacterial Gummosis.
5. Apply Chaubatia paste at the cut ends during the dormant season for the control of Silver leaf and canker.
6. For the control of white root rot, expose the root system of infected trees and cut the infected portion and apply Bordeaux paint.
7. For the control of collar rot, scarify wounds near collar region and apply Bordeaux paint or any other copper fungicide based paint.
8. For the control of White root rot during monsoon season drench the basin area 3-4 times with carbendazim* (0.1%) or aureofungin (0.02%) + copper sulphate (0.02%) with the onset of rainy season in 15-20 cm deep holes around the tree basin.
9. For the control of Collar rot during monsoon season drench the whole tree basin at a distance of 30 cm from tree trunk with mancozeb* (0.3%).

Other Management Strategies and Precautions:

1. **Peach Leaf Curl Aphid:** Whole tree including buds may be sprayed thoroughly.
2. **Peach Fruit Fly:** Late harvesting may be avoided, fallen fruits may be destroyed, where there is more incidence of fruit flies, early maturing varieties like Words Earliest and Early White Giant may be planted.
3. **Plum Scale:** Stems infected with scale must be removed & destroyed.
4. **Plum Fruit Moth:** Collect the infected fallen fruits and destroy them.
5. **Borer:** Scarify the papery/dried bark of the infected branches and stems with the knife and apply paste and cover the branches and trunk with gunny bags or dried grass to protect them from direct sunlight in the month of October.
6. **Defoliating Beetles:** Spread a bed sheet on the basin of the tree and shake the tree and collect the beetles and put them in a mixture of kerosene oil and water.
7. **Bark Eating Caterpillars:** In the month of March and Sept-Oct, scarify and clean the tunnels of caterpillars with the help of wooden sticks or wire and swab the holes with the insecticides recommended for them.
8. **Termites:** Always use good decomposed farm yard manure and remove the traces and excreta of termites from the vicinity of the orchards.
9. **Nematodes:** In order to avoid the nematodes infestation, always plant Wild Marigold, Berseem and Mustard in between the rows of the trees and use bio-pesticides like Shaalil, Neemagaurd etc.

*** The pesticides are proposed to be banned viz. Carbendazim, Dimethoate, Captan, Mancozeb, Monocrotophos & Malathion by the Government vide Gazette Notification No. CG-DL-E-18052020-219423, Extraordinary Part-II- Section-3- Subsection (ii), dated 18th May 2020 regarding- Banning of Insecticides Order, 2020.**