

Spray Program for Multi-Tree Fruit Orchards



Many local orchards are composed of multi-fruit combinations producing for fresh market apples, peaches, pears, plums, nectarines, and cherries. Aggressive fruit tree spray programs are required to achieve high quality fruit. These multi-fruit orchards create many spray management challenges for the achievement of good pest control in accordance to label guidelines.

Therefore, the following multi-fruit orchard spray program for the control of major tree fruit pests and diseases may offer some assistance: **Labeled as noted in 2025 for All Tree Fruit – Pomes: Apples & Pears Stones: Peaches, Plums, Nectarines, and Cherries.**

FUNGICIDES: [FRAC]	*RATE	NOTES
Captan® 80WDG [M4]	3-5.0 lbs	General Protectant (Not Labeled for Pears; Reduce Rates for Cherries)
Dormant Oil [NC]	4.0 gal	Apply Temp 35-85° F
Kocide® DF [M1]	6.0 lbs	Other Fixed Coppers (Stones: Dormant Spray Only)
Rally® 40W [3]	4.0 ozs	Powdery Mildew
Sulfur 95W [M2]	3.0 lbs	General Protectant
Gem® 500 SC [11]	3.0 ozs	Brown Rot & Peach Scab (Stones Only) or
Adamant® 50WG [3/11]	6.0 ozs	Brown Rot, Peach Scab & Powdery Mildew (Stones Except Plums)
Pristine® [7/11] or	14.5 ozs	Brown Rot, Powdery Mildew, Scab, Rusts & Fruit Spots (Limited to 4 Sprays/Season With Only 2 Consecutively)
Indar® 2F [3]	6.0 ozs	Powdery Mildew & Rusts
Topsin-M® 70W [1]	8.0 ozs	General Protectant
Ziram 76DF [M3]	5.0 lbs	Dormant Peach Leaf Curl (Captan Substitute for Pears)
Agrimycin® 17 W	24.0 ozs	Fireblight Control (Apples & Pears Only)
Ph-D® WDG [19]	6.2 ozs	Powdery Mildew & Scab (Not labeled for stones)

INSECTICIDES: [IRAC]	*RATE	NOTES
Imidan® 70W [1A]	2.0 lbs	Curculio, SWD, Scale & Fruit Moths
Warrior® [3] or Brigade® [3]	4.0 ozs 3.0 ozs	Borers, Curculio, SWD, BSMB & Fruit Moths
Besiege [3/28]	6.0 ozs	Peachtree Borer, SWD, Aphids, Curculio, Fruit Moths & Thrips
Actara® [4A]	4.5 ozs	Aphids & Curculio
Acramite® 50WS [25]	1.0 lbs	Mites Only as Required
Sevin® 50W [1A]	4.0 lbs	SWD, Japanese Beetles (Apple Thinning Agent) Hornets & Sap Beetles

***Rate for 50-100gal Acre Concentrate Spray**

****Be sure to follow all labels closely for PHI and REI!**

Multi-Fruit Spray Calendar*

March 15 - Dormant Spray	Dormant Oil 4.0 gal (Scales & Mites) Kocide® DF 6.0 lbs
April 5 - Peach Bloom	Apple Tight Cluster Captan® 80WDG 3.0 lbs
April 15 - Peach Petal Fall	Apple Bloom Captan® 50W 3.0 lbs Indar® 2F 6.0 ozs Agrimycin® 17 W 24.0 ozs (Fireblight Control Add for Apples & Pears Only)
April 25 - Peach Shuck Split	Apple Petal Fall Pristine® 14.5 ozs Warrior® 4.0 ozs (Curculio) Agrimycin® 17 W 24.0 ozs (Fireblight Control Add for Apples & Pears Only)
May 5 - 1st Cover Spray	Captan® 80WDG 4.0 lbs (Cedar Apple Rust - Higher Rates for Wetter Conditions) Indar® 2F 6.0 ozs (Powdery Mildew & Rusts) Actara® 4.5 ozs (Curculio & Aphids; PHI: 35-Days Pomes, 14-Days Stones)
May 15 - 2nd Cover Spray	Captan® 80WDG 3-4.0 lbs Rally® 40W 4.0 ozs (Peach Rusty Spot Only) Brigade® 3.0 ozs (Curculio; PHI 14-Days)

June 1 -

3rd Cover Spray

Captan® 80WDG 3-4.0 lbs
Topsin-M® 70W 8.0 ozs (Apple Scab Resistance Likely)
Imidan® 70W 2.0 lbs (Curculio, Scale & Fruit Moths; PHI: 7-Days Pomes, 14-Days Stones)
Acramite® 50WS 1.0 lbs (For Mites if Required PHI: 7-Days Pomes, 3-Days Stones)

June 15 -

4th Cover Spray

Captan® 80WDG 3-4.0 lbs
Sulfur 95W 3.0 lbs (0-day PHI; Stones Only)
Warrior® 4.0 ozs (Borers, Curculio & Fruit Moths -7-day PHI)

July 1-

5th Cover Spray

Early Peach Harvest
Captan® 80WDG 3-4.0 lbs (0-day PHI; 1-day REI); or
Pristine® 14.5 ozs (Early Stones 0-day PHI; Limited to 4 Sprays/Season With Only 2 Consecutively)
Brigade® 3.0 ozs (Borers, Curculio & Fruit Moths - 14-Day PHI)

July 15 -

6th Cover Spray

Peach Harvests
Captan® 80WDG 3-4.0 lbs (0-day PHI; 1-day REI)
Rally® 40W 4.0 ozs (0-day PHI, except apples 14-days)
Sevin® 50W 4.0 lbs (Japanese Beetle & Moths - 5-Day PHI for All Fruit)

August 1-

7th Cover Spray

Peach Harvests
Captan® 80WDG 4.0 lbs (0-day PHI; 1-day REI); **or**
Pristine® 14.5 ozs (Early Pomes 0-day PHI)
Sevin® 50W 4.0 lbs (Japanese Beetle & Hornets - 5-Day PHI for All Fruit)

August 15 -

8th Cover Spray

Early Apple Harvests
Late Peach Harvest
Captan® 80WDG 4.0 lbs (0-day PHI; 1-day REI); **or**
Pristine® 14.5 ozs (Pomes 0-day PHI)

September 1 -

9th Cover Spray

Apples and Pears Only
Captan® 80WDG 4.0 lbs (0-day PHI; 1-day REI); **or**
Pristine® 14.5 ozs (Pomes 0-day PHI)
Sevin® 50W 4.0 lbs (Japanese Beetle & Hornets - 5-Day PHI for All Fruit)

September 15 -

Directed Trunk Bore Spray

Besiege® 12.0 ozs (Post Harvest for Borers)

HERBICIDES: [HRAC]

*RATE	NOTES
Gramoxone® [22]	1.0 qts Burndown, Directed Spray
Roundup® [9]	1.0 qts Burndown, Shielded & Directed Spray
Devrinol® 50 DF [15]	4.0 lbs Spring/Summer 35-day PHI
Princep® 4L [5]	1.0 qts Spring Dormant, Avoid High pH Soils
Solicam® [12]	2.5 lbs Spring/Fall Dormant, 1-yr Established
Goal® or Galigan® [14]	2.0 pts After Harvest to Spring Bud Swell
Chateau [14]	12.0 ozs After Harvest to Spring Bud Swell
Aim®, Venue or Treevix [14]	1-2.0 ozs Directed Spray, 0-3-day PHI
Matrix® [2]	4.0 ozs Late Spring, 1-yr Established
Prowl® [3] or Surflan® [3]	2.0 qts Spring/ Summer, Prowl 60-day PHI
Poast® [1]	1.5 pts Summer Grasses, Variable PHI
Karmex® [7] or Diuron® [7]	1.6 qts Spring/Fall Dormant, 3-yr Established

***Lowest Use Rate Recommended Initially**

Organic Approach Substitutions:

Conventional Product	Organic Certified Product (OMRI)
Captan® & Topsin-M®	Surround® or Sulfur or Lime Sulfur
Rally®	Kaligreen® (Powdery Mildew Eradicant)
Listed Insecticides	Neem® or Pyganic® or Entrust® (Stone Fruits Only)
Agrimycin®	Agrimycin® or Fixed Copper (Apples & Pears Except During Bloom)
Gramoxone® or Roundup®	Avenger® or Burnout® or AXXE®/BioSafe® or (Scythe® no OMRI label)

*** Important Note: The calendar spray dates given are an average estimate for Anne Arundel and Prince George's County Orchards, and may vary by location in Maryland. Be sure to adjust your spray schedule application dates accordingly. The above recommendations very closely reflect the current spray program utilized at the University of Maryland Research and Education Center, Upper Marlboro Facility for its research orchards. Remember to always "Read the Label"**