

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 2024 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		

Kocide® DF [M1] (Stones: Dormant Spray Only)

4.0 ozs Rally®40W [3] Powderv 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 & (Stones Except Plums) Powdery Mildew Pristine® [7/11] or Brown Rot, Powdery 14.5 ozs Mildew, Scab, Rusts & (Limited to 4 Sprays/Season

Fruit Spots

With Only 2 Consecutively) Indar® 2F [3]

6.0 ozs Powdery Mildew & Rusts Topsin-M® 70W [1] General Protectant 8.0 ozs **Ziram 76DF [M3]** 5.0 lbs Dormant Peach Leaf Curl General Protectant (Captan Substitute for Pears) 24.0 ozs Fireblight Control

Agrimycin® 17 W (Apples & Pears Only)

Ph-D® WDG [19] Powdery Mildew & Scab 6.2 ozs (Not labeled for stones)

INSECTICIDES: [IRAC] *RATE

Curculio, SWD, Scale & Imidan® 70W [1A] 2.0 lbs Fruit Moths Warrior® [3] 4.0 ozs Borers, Curculio, SWD, BSMB or Tombstone® [3] 2.0 075 & 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)

1st Cover Spray May 5 -

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)

2nd Cover Spray May 15 -

Captan® 80WDG 3-4.0 lbs Rally 8 40W 4.0 ozs (Peach Rusty Spot Only) Warrior® 4.0 ozs (Curculio; PHI 21-Days Pomes, 14-days Stones)

3rd Cover Spray June 1 -

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)

4th Cover Spray June 15 -

Captan® 80WDG 3-4.0 lbs

Sulfur 95W 3.0 lbs (0-day PHI; Stones Only)

Tombstone® 2.0 ozs (Borers, Curculio & Fruit Moths -

7-day PHI)

5th Cover Spray July 1-

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) Tombstone® 2.0 ozs (Borers, Curculio & Fruit Moths -

7-Day PHI)

6th Cover Spray July 15 -**Peach Harvests**

> Captan® 80WDG 3-4.0 lbs (0-day PHI; 1-day REI) Rally ® 40W 4.0 ozs(0-dayPHI, 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)

200.090 12.0 020 (1 000 1.0. 1000 1.0. 20. 0.0)			
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®, Shark® or Venue [14]	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	
VI asset Han Data Danaman and Julially			

*Lowest Use Rate Recommended Initially

Organic Approach Substitutions:

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

R. David Myers Principal Agent, Agriculture myersrd@umd.edu