



FRUIT DISEASES

Indiana Disease Management Program for Peaches - 2020

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This publication provides a disease management schedule for Indiana commercial peach growers.

The application rates presented in these tables are based upon the amount of product to apply per acre. Each table presents the diseases to control at each peach growth stage, the products that are labeled for their control, the rate, efficacy (when the information is available), and additional information and/or caveats.

Successful application and control depend upon many factors, including the type of application equipment, how well that equipment is maintained, proper spray volume, tree phenology, tree height, row width, target pest, tractor speed, frequency of application, the appropriate pesticide, and the chemical rate per acre used. Some product labels require minimum and/or maximum recommendations for spray volume (the amount of water to use per acre when spraying).

As always, follow label precautions when tank-mixing oils, fungicides, adjuvants, and insecticides.

MATERIALS ARE LISTED ALPHABETICALLY. Reference to products in this publication is not intended to be an endorsement to the exclusion of others that may be similar. Persons using such products assume responsibility for their use in accordance with current directions of the manufacturer.

Delayed Dormant

Diseases controlled and labeled rates. Apply after leaves drop in the fall or before bud scales swell and drop in the spring to minimize injury. Rates provided are per acre.

Product and Formulation	FRAC Code	Bacterials Spot and Canker	Peach Leaf Curl	Phytophthora Crown Root and Collar Rot	REI ¹	PHI ¹	Maximum amount/acre/year	Maximum applications/year	Remarks
Fixed Coppers+									
Bordeaux mixture, 8-8-10	M ¹	8 lb	-	-	24 h	-	N/A	-	Using copper at the dormant stage may reduce the overwintering inoculum of the bacteria that cause bacterial canker and bacterial spot.
Champ Flowable	M ¹	3.5-5 lb	3.5-5 lb	-	48 h	N/A	44 pts	-	
Champ WG (Copper Hydroxide)	M ¹	3.5-5 lb	3.5-5 lb	-	48 h	N/A	12 lb	-	
C-O-C-S WDG	M ¹	12-15.6 lb	12-15.6 lb	-	48 h	-	31	1	
Cuprofix Ultra 40 Disperse	M ¹	5-7.5 lb	5-7.5 lb	-	48 h	N/A	40	-	
Kocide 3000 (Copper Hydroxide)	M ¹	3.5-5 lb	3.5-5 lb	-	48 h	N/A	53.3 lb	-	
Bravo WeatherStik ³	M ⁵	-	1-1.75 pt	-	0	0	-	1	
Ferbam 76WDG	M ³	-	4.5 lb	-	-	-	-	-	
Syllit FL	U ¹²	-	3 pt	-	-	-	-	-	
Thiram	M ³	-	3.5 lb	-	-	-	-	-	
Ziram 76DF	M ³	-	3.75-8 lb	-	-	-	-	-	
Ridomil Gold SL ⁴	M ³	-	-	E*	2 d	7 d	2 qt (2.0) or 1.5 fl oz/1,000 sq f	-	Apply to soil in early spring before growth and in the fall after harvest but before the ground freezes. Needs rain or irrigation to move material into root zone.
				Rate based on tree size, see label					Trunk Diameter at 12 inches above the soil line
									<1 inch
									1-3 inches
									>5 inches
									Quantity of Diluted Mixture
									1 qt
									3 qt
									4 qt

¹ Re-entry intervals (REI) and preharvest intervals (PHI) are provided in hours (h) and days (d).

² Generic products (other materials with the same active ingredient) are available.

³ Efficacy ratings: E = excellent, G = good, F = fair, P = poor, — = not effective.

^{**} Resistant pathogens will lower the effectiveness of these fungicides

Peach Pink

(efficacy rating* and amount per acre) Rates provided are per acre.

Product and formulation	FRAC Code	Bacterial Leaf Spot/ Shothole	Brown Rot Blossom Blight	REI	PHI	Maximum amount/ acre/year	Maximum applications/ year	Remarks
Azoxystrobin: Abound, Aframe, Satori,	11	-	E** 12-15 oz	12 h	30 d	27.6 oz	-	Begin applications at early bloom and continue through petal fall.
Bravo WeatherStik	M ⁵	-	G 1-1.75 pt	12 h	-	20.5 pts	-	Make one application at popcorn (pink, red or early white bud) and a second application at full bloom.
Captan 80WDG	M ⁴	-	G** 2.5-5 lb	24 h	0 d	40 lb	8	May cause leaf spotting on tender varieties of peaches. Other formulations are available, such as 4L and 50WP. REI varies with formulation and product. Refer to label.
Copper:								
Copper Hydroxide Kocide 3000	M ¹	1.7 lb	-	-	48 h	40 lb	N/A	
C-O-C-S WDG	M ¹	1-2.9 lb	F 1-2.9 lb	24 h	--	35 lb	-	As season progresses, reduce the rate of copper applied, to reduce the risk of phytotoxicity. Copper applied to tanks with a pH of less than 6.5 may result in phytotoxicity issues.
Cuprofix Ultra 40 dispers	M ¹	1.25 lb	-	-	48 h	53.3 lb	N/A	
Elevate	17	-	E 1-1.5 lb	12 h	0 d	6 lb	4	Do not apply more than 2 sequential applications. Recommended for early bloom and late bloom.
Elite 45WSP	3	-	G 4-8 oz	12 h	0 d	3 lb	-	Apply at pink, rotate do a different MOA at 50% bloom, apply Elite at petal fall if conditions are favorable for disease.
Fontelis 1.675C	7	-	G** 16-20 oz	12 h	0 d	61 oz	-	Make no more than 2 sequential applications.
Flint Extra	11	-	1.9-3.8	12 h	24 h	15.2 oz	4	Replaced Gem 5005C.
Indar 2F	3	-	E** 6 oz	12 h	24 h	48 oz	8	Begin applications at early red bud stage before infection occurs.
Inspire Super	3+9	-	E-G 16-20 oz	12 h	2 d	80 oz	4	Do not apply more than 2 sequential applications.
Iprodione: Meteor, Rovral	2	-	E** 1-2 pt	24 h	N/A	-	2	Apply at bud break and at full bloom. Do not apply after petal fall.
Luna Experience	3+7	-	E-G** 6-10 oz	12 h	0 d	34 oz	-	
Luna Sensation	7+11	-	E** 5-7.6 oz	12 h	2 d	27.1 oz	4	Do not apply more than 2 sequential applications.

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Peach Pink (continued)

Product and formulation	FRAC Code	Bacterial Leaf Spot/Shothole	Brown Rot Blossom Blight	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Merivon	7+11	-	E** 4-6.7 oz	12 h	0 d	20.1 oz	3	Do not apply more than 2 sequential applications. Do not use with crop oil concentrate (COC), methylated seed oil (MSO), organosilicone (OS) or MSO/OS blend adjuvants.
Pristine	7+11	-	E-G** 10.5-14.5 oz	12 h	0 d	72.5 lb	5	Better deployed in later sprays due its ability to control multiple pathogens.
Propiconazole: Fitness, Orbit, Tilt	3	-	E** 4 oz	12 h	0 d	20 oz	-	A maximum of two sprays prior to harvest.
Quadris Top	11+3	-	12-14 oz	12 h	0 d	56 fl oz	-	The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.
Quash	3	-	2.5-4 oz	12 h	14 d	12 oz	3	
Quit Xcel	11+3	-	14 fl oz	12 h	0 d	70 fl oz	5	
Rally	3	-	2.5-6 oz	12 h	0 d	3.25 lb	8	Begin at pink before infection and reapply at full bloom with a different MOA.
Rhyme	3	-	7 fl oz	12 h	7 d	28 fl oz	4	
Scala	9	-	9-18 oz	12 h	2 d	54 fl oz	-	
Sulfur 80WG	M	-	10-30 lb	24 h	-	-	-	Do not use within two weeks of an oil spray treatment except for dormant, delayed-dormant or post-harvest applications with suitable oil.
Topsin 70WSB	1	-	E-P** 1-1.5 lb	2 d	1 d	4 lb	-	An excellent fungicide if resistance isn't an issue.
Topguard	3	-	E** 14 floz.	12 hr	7 d	56 fl oz	4	
Topguard EQ	3+11	-	E** 6-8 oz	12 h	7 d	32 oz	4	When used for scab, tank-mix with another fungicide from a different resistance management group. Also controls powdery mildew.
Vanguard	9	-	5 oz	12 h	2 d	30 oz	2	Do not use with X-77 adjuvant for bloom sprays on stone fruit
Ziram	M ³	-	4.5-8 lb	48 h	14 d	48.2 fl oz	6	

¹ Re-entry intervals (REI) and preharvest intervals (PHI) are provided in hours (h) and days (d).

² Generic products (other materials with the same active ingredient) are available.

³ Efficacy ratings: E = excellent, G = good, F = fair, P = poor, — = not effective.

**Resistant pathogens will lower the effectiveness of these fungicides

Peach Bloom

(efficacy rating* and amount per acre) Rates provided are per acre.

Product and formulation	FRAC Code	Bacterial Leaf Spot/Shothole	Brown Rot Blossom Blight	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Azoxystrobin: Aframe, Abound, Satori,	11	-	E** 12-15 oz	12 h	30 d	27.6 oz	-	Begin applications at early bloom and continue through petal fall.
Aframe Plus	11+3	-	E** 14 oz	12 h	0 d	70.0 fl oz	2	Stone fruit diseases are more effectively controlled by ground application, using sufficient water volume to provide thorough and uniform coverage.
BravoWeatherStik	M ⁵	-	G 1-1.75 pts	12 h	-	20.5 pts	-	Make one application at popcorn (pink, red or early white bud) and a second application at full bloom.
Captan 80WDG	M ⁴	-	G** 2.5-5 lb	24 h	0 d	40 lb	8	May cause leaf spotting on tender varieties of peaches. Other formulations are available, such as 4L and 50WP.
Copper:								
Copper Hydroxide Kocide 3000	M ¹	1.7 lb	-	-	48 h	40 lb	-	As season progresses, reduce the rate of copper applied, to reduce the risk of phytotoxicity. Copper applied with tank mixes having a pH of less than 6.5 may result in phytotoxicity issues.
C-O-C-S WDG	M ¹	1-2.9 lb	F 1-2.9 lb	24 h	-	35 lb	-	
Cuprofix Ultra 40 disperss	M ¹	1.25 lb	-	-	48 h	53.3 lb	-	
Elevate	17	-	E 1-1.5 lb	12 h	0 d	6 lb	4	Do not apply more than 2 sequential applications. Recommended for early bloom and late bloom.
Elite 45WSP	3	-	G 4-8 oz	12 h	0 d	3 lb	-	Apply at pink, rotate do a different MOA at 50% bloom, apply Elite at petal fall if conditions are favorable for disease.
Fontelis 1.67SC	7	-	G** 16-20 oz	12 h	0 d	61 oz	-	Make no more than 2 sequential applications.
Flint Extra	11	-	1.9-3.8	12 h	24 h	15.2 oz	4	Replaced Gem 5005C.
Indar 2F	3	-	E** 6 oz	12 h	24 h	48 oz	8	Begin applications at early red bud stage before infection occurs.
Inspire Super	3+9	-	E-G 16-20 oz	12 h	2 d	80 oz	4	Do not apply more than 2 sequential applications.
Iprodione: Meteor, Rovral	2	-	E** 1-2 pt	24 h	N/A	-	2	Apply at bud break and at full bloom. Do not apply after petal fall.

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Peach Bloom (continued)

Product and formulation	FRAC Code	Bacterial Leaf Spot/Shothole	Brown Rot Blossom Blight	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Luna Experience	3+7	-	E-G** 6-10 oz	12 h	0 d	34 oz	-	
Luna Sensation	7+11	-	E** 5-7.6 oz	12 h	2 d	27.1 oz	4	Do not apply more than 2 sequential applications.'
Merivon	7+11	-	E** 4-6.7 oz	12 h	0 d	20.1 oz	3	Do not apply more than 2 sequential applications. Do not use with crop oil concentrate (COC), methylated seed oil (MSO), organosilicone (OS) or MSO/OS blend adjuvants.
Oxytetracycline: Mycolshield	Antibiotic	G 12 oz	-	12 h	21d	12 lb	-	If bacterial spot has been a problem, apply at 7-day intervals beginning at petal fall (<5% shuck split) through first cover.
Pristine	7+11	-	E-G** 10.5-14.5 oz	12 h	0 d	72.5 lb	5	Better deployed in later sprays due its ability to control multiple pathogens.
Propiconazole: Fitness, Orbit, Tilt	3	-	E** 4 oz	12 h	0 d	20 oz	-	A maximum of two sprays prior to harvest
Quadris Top	11+3	-	12-14 oz	12 h	0 d	56 fl oz	--	The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.
Quash	3	-	2.5-4 oz	12 h	14 d	12 oz	3	
Quilt Xcel	11+3	-	14 fl oz	12 h	0 d	70 fl oz	5	
Rally	3	-	2.5-6 oz	24 h	0 d	3.25 lb	8	Begin at pink before infection and reapply at full bloom with a different MOA
Rhyme	3	-	7 fl oz	12 h	7 d	28 fl oz	4	
Scala	9	-	9-18 oz	12 h	2 d	54 fl oz	-	
Sulfur 80WG	M	-	10-30 lbs	24 h	--	-	-	Do not use within two weeks of an oil spray treatment except for dormant, delayed-dormant or post-harvest applications with suitable oil.
Topsin 70WSB	1	-	E-P** 1-1.5 lb	2 d	1d	4 lb	-	An excellent fungicide if resistance isn't an issue.
Topguard/Topguard Specialty Crop	3	-	E** 14 fl oz	12 hr	7 d	56 fl oz	4	
Topguard EQ	3+11	-	E** 6-8 oz	12 h	14 d	64 oz	-	When used for scab, tank-mix with another fungicide from a different resistance management group. Contains azoxystrobin: Do not use where drift may contact apples.
Vanguard	9	-	5 oz	12 h	2 d	30 oz	2	Do not use with X-77 adjuvant for bloom sprays on stone fruit
Ziram	M ³	-	4.5-8 lb	48 h	14 d	48.2 oz	6	

Peach Petal Fall

(efficacy rating* and amount per acre) Rates provided are per acre.

Product and formulation	FRAC Code	Bacterial Leaf Spot/ Shothole	Brown Rot Blossom Blight	Peach Scab	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Azoxytrobilin: Aframe, Abound, Satori	11	-	G** 6-15.5 lb	G** 9-15.5 lb	12 h	30 d	27.6 oz	-	Begin applications at early bloom and continue through petal fall.
Aframe Plus ²	11+3	-	E** 14 oz	E** 14 fl oz	12 h	0 d	70.0 fl oz	2	Stone fruit diseases are more effectively controlled by ground application, using sufficient water volume to provide thorough and uniform coverage
Bravo WeatherStik	M ⁵	-	E 1-1.75 pts	G 1-1.4 pts	12 h	-	20.5 pts	-	Make one application at popcorn (pink, red or early white bud) and a second application at full bloom.
Captan 80WDG	M ⁴	-	G** 2.5-5 lb	2.5-5 lb	24 h	0 d	40 lb	8	May cause leaf spotting on tender varieties of peaches. Other formulations are available, such as 4L and 50WP. REI varies with formulation and product. Refer to label.
Copper:									
Copper Hydroxide Kocide 3000	M ¹	1.7 lb	-	-	-	48h	40 lb	-	As season progresses, reduce the rate of copper applied, to reduce the risk of phytotoxicity. Copper applied to tanks with a pH of less than 6.5 may result in phytotoxicity issues.
C-O-C-S WDG	M ¹	1-2.9 lb	F 1-2.9 lb	-	24 h	--	35 lb	-	
Cuprofix Ultra 40 dispers	M ¹	5-8 lb	F 3.75 lb	-	-	48 h	45 lbs	-	
Elevate	17	-	E 1-1.5 lb	-	12 h	0 d	6 lb	4	Do not apply more than 2 sequential applications. Recommended for early bloom and late bloom.
Elite 45WSP	3	-	G 4-8 oz	-	12 h	0 d	3 lb	-	Apply at pink, rotate do a different MOA at 50% bloom, apply Elite at petal fall if conditions are favorable for disease.
Fontelis 1.675C	7	-	G** 16-20 oz	-	12 h	0 d	61 oz	-	Make no more than 2 sequential applications
Flint Extra	11	-	E-P** 1.9-3.8 oz	G** 2.5-3.8 fl oz	12 h	24h	15.2 oz	4	Replaced Gem 5005C.
Indar 2F	3	-	E** 6 oz	G-P** 6 fl oz	12 h	24 h	48 oz	8	Begin applications at early red bud stage before infection occurs.
Inspire Super	3+9	-	E-G 16-20 oz	-	12 h	2 d	80 oz	4	Do not apply more than 2 sequential applications. ¹
Iprodione: Meteor, Rovral ²	2	-	E** 1-2 pt	-	24 h	N/A	4 pt	2	Apply at bud break and at full bloom. Do not apply after petal fall

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Peach Petal Fall (continued)

Product and formulation	FRAC Code	Bacterial Leaf Spot/Shothole	Brown Rot Blossom Blight	Peach Scab	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Luna Experience	3+7	-	E-G** 6-10 oz	E-G 8-10 oz	12 h	35 d	34 oz		
Luna Sensation	7+11	-	E** 5-7.6 oz	E-G 5-7.6 fl oz	12 h	2 d	27.1 oz	4	Do not apply more than 2 sequential applications.
Merivon	7+11	-	E** 4-6.7 oz	E-G 4-6.7 fl oz	12 h	0 d	20.1 oz	3	Do not apply more than 2 sequential applications. Do not use with crop oil concentrate (COC), methylated seed oil (MSO), organosilicone (OS) or MSO/OS blend adjuvants.
Oxytetracycline: Mycoshield	Antibiotic	12 oz	-	-	12 hr	60 d	9 lb	6	If bacterial spot has been a problem, apply at 7-day intervals beginning at petal fall (<5% shuck split) through first cover.
Pristine	7+11	-	E-G** 10.5-14.5 oz	E-G** 10.5-14.5 oz	12 h	0 d	72.5 lb	5	A maximum of two sprays prior to harvest
Propiconazole: Fitness, Orbit, Tilt	3	-	E** 4 oz	-	12 h	0 d	20 oz	-	The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.
Quadris Top	11+3	-	12-14 oz	-	12 h	0 d	56 fl oz	--	
Quash	3	-	2.5-4 oz	-	12 h	14 d	12 oz	3	
Quilt Xcel	11+3	-	14 fl oz	E-G** 14 fl oz	12 h	0 d	70 fl oz	5	Begin at pink before infection and reapply at full bloom with a different MOA
Rally	3	-	2.5-6 oz	-		0 d	3.25 lb	8	
Rhyme	3	-	7 fl oz	-	12 h	7 d	28 fl oz	4	
Scala	9	-	9-18 oz	G-P 9-18 oz	12 h	2d	54 fl oz	-	Do not use within two weeks of an oil spray treatment except for dormant, delayed-dormant or post-harvest applications with suitable oil.
Sulfur 80WG	M	-	10-30 lbs	-	24 h	--	-	-	An excellent fungicide if resistance isn't an issue.
Topsin 70WSB	1	-	E-P** 1-1.5 lb	-	2 d	1 d	4 lb	-	When used for scab, tank-mix with another fungicide from a different resistance management group.
Topguard/Topguard Specialty Crop	3	-	E** 14 fl oz	-	12 h	7 d	56 fl oz	4	
Topguard EQ	3+11	-	E** 6-8 oz	E-G** 6-8 oz	12 h	14 d	64 oz	-	Do not use with X-77 adjuvant for bloom sprays on stone fruit
Topguard Specialty Crop	3	-	G 14 fl oz	-	12 h	7 d	56 fl oz	4	Does not contain azoxystrobin
Vanguard	9	-	G-F 5 oz	-	12 h	2 d	30 oz	2	
Ziram	M ³	-	F 4.5-8 lbs.	-	48 h	14 d	48.2 oz	6	

Peach Shuck Split

(efficacy rating* and amount per acre) Rates provided are per acre.

Product and formulation	FRAC Code	Bacterial Leaf Spot/Shothole	Brown Rot Blossom Blight	Peach Scab	Powdery Mildew	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Azoxystrobin: Aframe, Abound, Satori,	11	-	E** 12-15 oz	9-15.5 fl oz	-	12 h	30 d	27.6 oz	-	Begin applications at early bloom and continue through petal fall.
Aframe Plus	11+3	-	E** 14 oz	14 fl oz	-	12 h	0 d	70.0 fl oz	2	Stone fruit diseases are more effectively controlled by ground application, using sufficient water volume to provide thorough and uniform coverage.
Bravo WeatherStik	M ⁵	-	E 3.1-4.1 pt	3.1-4.1 oz	-	12 h	-	20.5 pts	-	Make one application at popcorn (pink, red or early white bud) and a second application at full bloom.
Captan 80WDG	M ⁴	-	G** 2.5-5 lb	2.5-5 lb	2.5-5 lb	24 h	0 d	40 lb	8	May cause leaf spotting on tender varieties of peaches. Other formulations are available, such as 4L and 50WP.
Copper:										
Copper Hydroxide Kocide 3000	M ¹	1.7 lb	-	-	-	-	48 h	40 lb	N/A	As season progresses, reduce the rate of copper applied, to reduce the risk of phytotoxicity. Copper applied with tank mixes having a pH of less than 6.5 may result in phytotoxicity issues.
C-O-C-S WDG	M ¹	1-2.9 lb	F 1-2.9 lb	-	-	24 h	-	35 lb	-	
Cuprofix Ultra 40 dispers	M ¹	1.25 lb	-	-	-	-	48 h	53.3 lb	N/A	
Elevate	17	-	E 1-1.5 lb	-	-	12 h	0 d	6 lb	4	Do not apply more than 2 sequential applications. Recommended for early bloom and late bloom.
Elite 45WSP	3	-	G 4-8 oz	-	-	12 h	0 d	3 lb	-	Apply at pink, rotate do a different MOA at 50% bloom, apply Elite at petal fall if conditions are favorable for disease.
Fontelis 1.67SC	7	-	G** 16-20 oz	14-20 fl oz	14-20 fl oz	12 h	0 d	61 oz	-	Make no more than 2 sequential applications.
Flint Extra	11	-	1.9-3.8	2.5-3.8 fl oz	2.5-3.8 fl oz	12 h	24 h	15.2 oz	4	Replaced Gem 5005C.
Indar 2F	3	-	E** 6 oz	-	-	12 h	24 h	48 oz	8	Begin applications at early red bud stage before infection occurs.
Inspire Super	3+9	-	E-G 16-20 oz	16-20 fl oz	-	12h	2d	80 oz	4	Do not apply more than 2 sequential applications.
Luna Experience	3+7	-	E-G** 6-10 oz	8-10 oz	6-17 oz	12 h	35 d	34 oz	-	
Luna Sensation	7+11	-	E** 5-7.6 oz	5-7.6 fl oz	5-7.6 fl oz	12 h	2 d	27.1 oz	4	Do not apply more than 2 sequential applications.

(continued)

Product and formulation	FRAC Code	Bacterial Leaf Spot/Shothole	Brown Rot Blossom Blight	Peach Scab	Powdery Mildew	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Merivon	7+11	-	E** 4-6.7 oz	4-6.7 fl oz	4-6.7 fl oz	12h	0d	20.1 oz	3	Do not apply more than 2 sequential applications. Do not use with crop oil concentrate (COC), methylated seed oil (MSO), organosilicone (OS) or MSO/OS blend adjuvants.
Oxytetracycline: Fireline, Mycolshield ²	Antibiotic	12 oz	-	-	-	-	-	-	-	If bacterial spot has been a problem, apply at 7-day intervals beginning at petal fall (<5% shuck split) through first cover.
Pristine ²	7+11	-	E-G** 10.5-14.5 oz	10.5-14.7 oz	10.5-14.5 oz	12h	0d	72.5 lb	5	Better deployed in later sprays due its ability to control multiple pathogens.
Propiconazole: Fitness, Orbit, Tilt	3	-	E** 4 oz	-	-	12 h	0d	20 oz	-	A maximum of two sprays prior to harvest
Quadris Top	11+3	-	12-14 oz	-	-	12 h	0 d	56 fl. oz	-	The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.
Quash	3	-	2.5-4 oz	3.5-4 oz	3.5-4 oz	12 h	14d	12 oz	3	
Quit Xcel	11+3	-	14 fl oz	-	-	12 h	0d	70 fl oz	5	
Quintec 2.08F	13	-	-	-	7 fl oz	12h	7d	28 fl oz	4	May cause leaf spotting and chlorosis. If this occurs, discontinue use
Rally	3	-	2.5-6 oz	-	2.5-6 oz	-	0d	3.25 lb	8	Begin at pink before infection and reapply at full bloom with a different MOA
Rhyme	3	-	7 fl oz	7 oz	7 oz	12h	7 d	28 fl oz	4	
Scala	9	-	9-18 oz	-	-	12 h	2d	54 fl. Oz	-	
Sulfur 80WG	M	-	10-30 lbs	-	-	24 h	-	-	-	Do not use within two weeks of an oil spray treatment except for dormant, delayed-dormant or post-harvest applications with suitable oil.
Wettable sulfur 90% ²	M	10-30 lbs	10-30 lbs	10-30 lbs	10-30 lbs	24 h	-	-	2-4	2
Topsin 70WSB	1	-	E-P** 1-1.5 lb	1.5 lbs	-	2d	1d	4 lb	-	An excellent fungicide if resistance isn't an issue.
Topguard EQ	3+11	-	E** 6-8 oz	6-8 oz	6-8 oz	12h	14d	64 oz	4	When used for scab, tank-mix with another fungicide from a different resistance management group.
Topguard/Topguard Speciality Crop	3	-	14 fl oz	-	14 fl oz	12 h	7 d	56 fl oz	4	Does not contain azoxystrobin
Vanguard	9	-	5 oz	-	-	12 h	2d	30 oz	2	Do not use with X-77 adjuvant for bloom sprays on stone fruit
Ziram	M ³	-	4.5-8 lb	4.5-8 lb	-	48 h	14 d	48.2 oz	6	

Peach Cover

(efficacy rating* and amount per acre) Rates provided are per acre.

Product and formulation	FRAC Code	Bacterial Leaf Spot/Shothole	Brown Rot Blossom Blight	Peach Scab	Powdery Mildew	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Azoxytobin: Aframe, Abound, Satori ²	11	-	E** 12-15 oz	12-15.5 fl oz	12-15.5 fl oz	12 h	30 d	27.6 oz	-	Begin applications at early bloom and continue through petal fall.
Aframe Plus	11+3	-	E** 14 oz	14 oz	-	12 h	0 d	70.0 fl oz	2	Stone fruit diseases are more effectively controlled by ground application, using sufficient water volume to provide thorough and uniform coverage
Captan 80WDG	M ⁴	-	G** 2.5-5 lb	2.5-5 lb	-	24 h	0 d	40 lb	8	May cause leaf spotting on tender varieties of peaches. Other formulations are available, such as 4L and 50WP. See Use of Captan Fungicide on Tree Fruit-Restricted Entry Intervals (REI) in the Midwest Fruit Pest Management Guide
Copper:										
Copper Hydroxide Kocide 3000	M ¹	1.7 lb	-	-	-	-	48 h	40 lb	N/A	As season progresses, reduce the rate of copper applied, to reduce the risk of phytotoxicity. Copper applied to tanks with a pH of less than 6.5 may result in phytotoxicity issues. Cease bacterial disease control after second cover.
C-O-C-S WDG	M ¹	1-2.9 lb	F 1-2.9 lb	-	-	24 h	-	35 lb	-	
Cuprofix Ultra 40 dispers	M ¹	1.25 lb	-	-	-	-	48 h	53.3 lb	N/A	
Elevate	17	-	E 1-1.5 lb	-	E 4-8 oz	12 h	0 d	6 lb	4	Do not apply more than 2 sequential applications. Recommended for early bloom and late bloom.
Elite 45WSP	3	-	G 4-8 oz	-	-	12 h	0 d	3 lb	6-12	Apply at pink, rotate to a different MOA at 50% bloom, apply Elite at petal fall if conditions are favorable for disease.
Fontelis 1.67SC	7	-	G** 16-20 oz	14-20 fl oz	14-20 fl oz	12 h	0 d	61 oz	3-4	Make no more than 2 sequential applications
Flint Extra	11	-	1.9-3.8 oz	2.5-3.8 fl oz	-	12 h	24 h	15.2 oz	4	Replaced Gem 500SC. Effective against scab. Suppresses brown rot.
Indar 2F	3	-	E** 6 oz	6 fl oz	-	12 h	24 h	48 oz	8	Begin applications at early red bud stage before infection occurs.
Inspire Super	3+9	-	E-G 16-20 oz	16-20 fl oz	16-20 fl oz	12 h	2 d	80 oz	4	Do not apply more than 2 sequential applications. i
Luna Experience	3+7	-	E-G** 6-10 oz	E-G** 8-10 oz	E-G** 6-10 oz	12 h	0 d	34 oz	-	
Luna Sensation	7+11	-	E** 5-7.6 oz	5-7.6 fl oz	5-7.6 fl oz	12 h	2 d	27.1 oz	4	Do not apply more than 2 sequential applications. i

(continued)

Peach Cover (continued)

Product and formulation	FRAC Code	Bacterial Leaf Spot/Shothole	Brown Rot Blossom Blight	Peach Scab	Powdery Mildew	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Merivon	7+11	-	E** 4-6.7 oz	4-6.7 fl oz	4-6.7 fl oz	12 h	0 d	20.1 oz	3	Do not apply more than 2 sequential applications. Do not use with crop oil concentrate (COC), methylated seed oil (MSO), organosilicone (OS) or MSO/OS blend adjuvants.
Oxytetracycline: Fireline, Mycoshield	Antibiotic	12 oz	-	-	-	-	-	-	-	If bacterial spot has been a problem, apply at 7-day intervals beginning at petal fall (<5% shuck split) through first cover.
Pristine	7+11	-	E-G** 10.5-14.5 oz	10.5-14.5 oz	10.5-14.5 oz	12 h	0 d	72.5 lb	5	Better deployed in later sprays due its ability to control multiple pathogens.
Propiconazole: Fitness, Orbit, Tilt	3	-	E** 4 oz	-	-	12 h	0 d	20 oz	-	A maximum of two sprays prior to harvest
Quadris Top	11+3	-	12-14 oz	12-14 fl oz	12-14 fl oz	12 h	0 d	56 fl oz	-	The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.
Quash	3	-	2.5-4 oz	3.5-4 oz	3.5-4 oz	12 h	14 d	12 oz	3	
Quilt Xcel	11+3	-	14 fl oz	14 fl oz	14 fl oz	12 h	0 d	70 fl oz	5	
Quintec 2.08F	13	-	-	-	7 fl oz	12 h	7 d	28 fl oz	4	May cause leaf spotting and chlorosis. If this occurs, discontinue use
Rally	3	-	2.5-6 oz	-	2.5-6 oz	-	0 d	3.25 lb	8	Begin at pink before infection and reapply at full bloom with a different MOA
Rhyme	3	-	7 fl oz	7 oz	-	12 h	7 d	28 fl oz	4	
Scala	9	-	9-18 oz	-	9-18 oz	12 h	2d	54 fl oz	-	
Sulfur 80WG	M	-	10-30 lb	-	-	24 h	-	-	-	Do not use within two weeks of an oil spray treatment except for dormant, delayed-dormant or post-harvest applications with suitable oil.
Wettable Sulfur 90% ²	M	10-30 lb	10-30 lb	10-30 lb	10-30 lb	24 h	-	-	-	
Topsin 70WSB	1	-	E-P** 1-1.5 lb	-	-	2d	1d	4 lb	-	An excellent fungicide if resistance isn't an issue.
Topguard/Topguard Specialty Crop	3	-	14 fl oz	-	14 fl oz	12 h	7 d	56 fl oz	4	Does not contain azoxystrobin
Topguard EQ	3+11	-	E** 6-8 oz	6-8 oz	6-8 oz	12 h	14 d	64 oz	-	When used for scab, tank-mix with another fungicide from a different resistance management group.
Vanguard	9	-	5 oz	-	-	12 h	2d	30 oz	2	Do not use with X-77 adjuvant for bloom sprays on stone fruit
Ziram	M ³	-	4.5-8 lb	4.5-8 lb	-	48 h	14 d	48.2 oz	6	

Peach Harvest

(efficacy rating* and amount per acre) Rates provided are per acre.

Product and formulation	FRAC Code	Brown Rot Blossom Blight	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Azoxystrobin: Aframe, Abound, Satorf ²	11	E** 12-15 oz	12 h	30 d	27.6 oz	-	Begin applications at early bloom and continue through petal fall.
Aframe Plus	11+3	E** 14 oz	12 h	0 d	70.0 fl oz	2	Stone fruit diseases are more effectively controlled by ground application, using sufficient water volume to provide thorough and uniform coverage.
Bravo WeatherStik ²	M ⁵	E 3.1-4.1 pt	12 h	-	20.5 pts	-	Make one application at popcorn (pink, red or early white bud) and a second application at full bloom.
Captan 80WDG	M ⁴	G** 2.5-5 lb	24 h	0 d	40 lb	8	May cause leaf spotting on tender varieties of peaches. Other formulations are available, such as 4L and 50WP.
Copper:							
Copper Hydroxide Kocide 3000	M ¹	-	-	48 h	40 lb	N/A	As season progresses, reduce the rate of copper applied, to reduce the risk of phytotoxicity. Copper applied to tanks with a pH of less than 6.5 may result in phytotoxicity issues.
C-O-C-S WDG	M ¹	F 1-2.9 lb	24 h	-	35 lb	-	
Cuprofix Ultra 40 disperss	M ¹	-	-	48 h	53.3 lb	N/A	Do not apply more than 2 sequential applications. Recommended for early bloom and late bloom.
Elevate	17	E 1-1.5 lb	12 h	0 d	6 lb	4	
Elite 45WSP	3	G 4-8 oz	12 h	0 d	3 lb	-	Apply at pink, rotate do a different MOA at 50% bloom, apply Elite at petal fall if conditions are favorable for disease.
Fontelis 1.675C	7	G** 16-20 oz	12 h	0 d	61 oz	-	Make no more than 2 sequential applications
Flint Extra	11	G** 1.9-3.8	12 h	24 h	15.2 oz	4	Replaced Gem 500SC.
Indar 2F	3	E** 6 oz	12 h	24 h	48 oz	8	Begin applications at early red bud stage before infection occurs. Resistance is an issue where peach are reliably produced.
Inspire Super	3+9	E-G 16-20 oz	12 h	2 d	80 oz	4	Do not apply more than 2 sequential applications.
Luna Experience	3+7	E-G** 6-10 oz	12 h	0 d	34 oz	-	

Product and formulation	FRAC Code	Brown Rot Blossom Blight	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Remarks
Luna Sensation	7+11	E** 5-7.6 oz	12 h	2 d	27.1 oz	4	Do not apply more than 2 sequential applications.
Merivon	7+11	E** 4-6.7 oz	12 h	0 d	20.1 oz	3	Do not apply more than 2 sequential applications. Do not use with crop oil concentrate (COC), methylated seed oil (MSO), organosilicone (OS) or MSO/OS blend adjuvants.
Pristine ²	7+11	E-G** 10.5-14.5 oz	12 h	0 d	72.5 lb	5	Better deployed in later sprays due its ability to control multiple pathogens.
Propiconazole: Fitness, Orbit, Tilt	3	E** 4 oz	12 h	0 d	20 oz	-	A maximum of two sprays prior to harvest
Quadris Top	11+3	12-14 oz	12 h	0 d	56 fl oz	-	The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.
Quash	3	2.5-4 oz	12 h	14 d	12 oz	3	
Quilt Xcel	11+3	14 fl oz	12 h	0 d	70 fl oz	5	
Rally	3	2.5-6 oz		0 d	3.25 lb	8	Begin at pink before infection and reapply at full bloom with a different MOA.
Rhyme	3	7 fl oz	12 h	7 d	28 fl oz	4	
Scala	9	9-18 oz	12 h	2 d	54 fl oz	-	
Sulfur 80WG	M	10-30 lb	24 h	-	-	-	Do not use within two weeks of an oil spray treatment except for dormant, delayed-dormant or post-harvest applications with suitable oil.
Topsin 70WSB ²	1	E-P** 1-1.5 lb	2 d	1 d	4 lb	-	An excellent fungicide if resistance isn't an issue.
Topguard EQ	3+11	E** 6-8 oz	6-8 oz	6-8 oz	12h	14d	
Topguard EQ	3+11	E** 6-8 oz	12 h	14 d	64 oz	-	When used for scab, tank-mix with another fungicide from a different resistance management group. Contains azoxystrobin: Do not use where drift may contact apples.
Vanguard	9	5 oz	12 h	2d	30 oz	2	Do not use with X-77 adjuvant for bloom sprays on stone fruit.
Ziram	M ³	4.5-8 lbs.	48 h	14 d	48.2 oz	6	

