



Simplified Fungicide Guide for Backyard Fruit

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Apple	
Bud swell	Fire blight
Half-inch green (buds show half-inch green)	Scab
Tight to open cluster (fruit buds visible)	Scab, Powdery mildew
Bud color (just before buds open)	Scab, Powdery mildew, Rust
Bloom (20-60% blossoms open)	Scab, Rust, Powdery mildew
Petal fall (last petals are falling)	Scab, Powdery mildew, Black rot, Fruit rots
First cover (10 days after petal fall)	Scab, Rust, Fruit rots
Second cover (2 wks after first cover)	Scab, Rust, Fruit rots
Additional covers (every 2 wks for a total of 8 cover sprays)	Fruit rots, Scab

Peach, Plum, Cherry (Stone Fruit)	
Dormant (before bud swell)	Peach leaf curl, Black knot of plum
Pink (just before buds open)	Black knot of plum, Brown rot
Petal fall (last petals are falling)	Scab, Brown rot, Black knot of plum, Cherry leaf spot
Shuck split (most shucks have split apart)	Scab, Brown rot, Black knot of plum, Cherry leaf spot
First cover (7 days after shuck split)	Scab, Brown rot, Black knot of plum, Cherry leaf spot
Remaining covers (10-14 day intervals)	Scab, Brown rot, Black knot of plum, Cherry leaf spot
Preharvest (3-4 weeks before harvest)	Scab, Brown rot, Cherry leaf spot

Brambles	
Bud break (buds show silver)	Anthracnose, Cane blight, Spur blight

Grape	
New growth (4-6" long)	Black rot, Phomopsis cane and leaf spot, Powdery mildew, Downy mildew (multiple fungicides required)
New growth (10-15" long, or 7-10 days after first spray)	Same as above
Pre-bloom (just before blossoms open)	Same as above
Post bloom (after all blossoms have fallen)	Black rot, Powdery mildew, Downy mildew
First cover (10 days after petal fall)	Same as above
Second cover (10-14 days after first cover)	Same as above
Third cover (10-14 days after second cover)	Powdery mildew and Downy mildew
Fourth cover (10-14 days after third cover)	Same as above

Strawberry	
Bloom	Fruit rots, Leaf spots (if weather is rainy)
Post-harvest	Leaf spots

Note: This fungicide spray guide is intended as a supplement to the more detailed spray schedule available in *Disease and Insect Control Programs for Homegrown Fruit in Kentucky, Including Organic Alternatives*, ID-21 (University of Kentucky) <http://www.ca.uky.edu/agc/pubs/id/id21/id21.pdf>

Fungicide Selection

	captan	chlorothalonil	copper	mancozeb	myclobutanil	propiconazole	streptomycin sulfate	sulfur
Apple & Pear								
Fire blight			X				X	
Fruit rots	X							X
Powdery mildew					X	X		X
Rust				X	X	X		
Scab	X			X	X	X		X
Peach, Plum, Cherry								
Black knot of plum	X	X						
Brown rot	X	X			X	X		X
Cherry leaf spot	X	X			X	X		
Peach leaf curl	X	X	X					
Scab	X	X						X
Blueberry								
Mummy berry	X							
Phomopsis twig blight	X							
Brambles								
Anthracnose			X					
Cane blight			X					
Spur blight			X					
Grape								
Black rot	X		X	X	X			
Downy mildew	X		X	X				
Powdery mildew			X		X			X
Phomopsis cane & leaf spot	X		X	X				
Strawberry								
Fruit rots	X							
Leaf spot	X							
Powdery mildew								X

ADDITIONAL RESOURCES

- Extension Plant Pathology Publications
<http://www2.ca.uky.edu/agcollege/plantpathology/extension/pubs.html>

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