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### South Dakota Apple Orchard Spray Schedule

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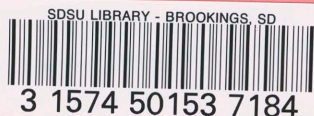
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# South Dakota Apple Orchard Spray Schedule

## For the Commercial Orchardist

The following schedule is a recommended program of protection against insects and apple diseases. It may not be practical for growers with just a few trees to apply all the treatments listed below. For

these cases, the shorter spray schedule (see other side) should be followed. It is important that these sprays be applied thoroughly and at the exact time indicated.

Name of Spray—Time to apply	Materials to use in 100 gallons of water	Purpose of treatment
<b>Dormant or ground spray</b> Apply in spring <i>before</i> buds start to open	Liquid lime sulfur, 12½ gallons Elgetol 1/2 gal.	For scale insects and overwintering mites. Cover entire tree. When apple scab has been severe previous year; apply to ground on dead leaves under trees. 500 gals. per acre.
<b>Delayed dormant spray</b> Apply when tips of leaf buds show green	Liquid lime sulfur, 3 gals.	Apple scab. Cover entire tree including trunk.
<b>Pink spray</b> Start when tips of fruit buds show pink at tips	Liquid lime sulfur, 2 gals. Ferbam, 2 lbs. DDT (50% wettable powder) 2 lbs.	Apple scab. Plant bugs when present.
<b>Petal-fall spray</b> Apply when 3/4 of flower petals have fallen. (A very important spray for codling moth and scab control. Apply thoroughly and on schedule.)	Liquid lime-sulfur, 2 gals. Ferbam, 2 lbs. DDT (50% wettable powder), 2 lbs. Chlordane (50% wettable powder), 2 lbs. OR Dieldrin (25% wettable powder), 1 lb.	Apple scab Codling moth Curculio
<b>Foliage spray</b> Apply one week after flower petals fall	Ferbam, 2 lbs. DDT (50% wettable powder), 2 lbs. Chlordane (50% wettable powder), 2 lbs. OR Dieldrin (25% wettable powder), 1 lb.	Apple scab Codling moth, leaf hoppers Curculio
<b>Foliage-fruit spray</b> Apply 10 days after previous spray or when fruit is 1/2 inch in diameter	Same as for foliage spray, above	Scab, cedar apple rust, codling moth, leaf hoppers, plant bugs, apple maggot, and curculio.
<b>Foliage-fruit spray</b> Apply two to three weeks after previous spray	Ferbam, 2 lbs. DDT (50% wettable powder), 2 lbs.	Scab. Codling moth, apple maggot.

NOTES: Lime sulfur should be 32° Baume in strength.

DDT, chlordane, or dieldrin should not be applied within 30 days before harvest.

Lime sulfur—lead arsenate sprays should not be applied on humid days or when temperature is above 85° F. in shade.

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# South Dakota Apple Orchard Spray Schedule

## For the Small Producer

The following is suggested for the grower who may not want to follow the recommended schedule on the other side. The program below will be beneficial but will not provide as good protection as the more complete schedule.

Name of Spray—Time to apply	Materials to use in one gallon of water	Purpose of treatment
<b>Petal-fall spray</b>  Apply when 3/4 of the flower petals have fallen.	Liquid lime-sulfur, 5 tablespoons	Apple scab
	Ferbam, 2 tablespoons	
	DDT (50% wettable powder), 2 tblspns.	codling moth
	Chlordane (50% wettable powder), 2 tablespoons OR Dieldrin (25% wettable powder), 1 tablespoon	Curculio
<b>Foliage-fruit spray</b>  Apply 2 to 3 weeks after petals fall or when fruit is about 1/2 inch in diameter.	Ferbam, 2 tablespoons	Apple scab
	DDT (50% wettable powder), 2 tblspns.	Codling moth, leafhoppers plant bugs, apple maggot
	Chlordane (50% wettable powder), 2 tablespoons OR Dieldrin (25% wettable powder), 1 tablespoon	Curculio

**NOTES:** Lime sulfur should be 32° Baume in strength.  
DDT, chlordane, or dieldrin should not be applied within 30 days before harvest.  
Lime sulfur—lead arsenate sprays should not be applied on humid days or when temperature is above 85° F. in the shade.

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