

1968 Commercial

Grape Vineyard Spray Program

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PRE-BLOOM SPRAYS

SITUATION	MATERIALS TO USE	RATES PER 100 GALS	SPECIAL INSTRUCTIONS
<u>Special Spray</u>	DDT 50W	2 lbs.	<u>Apply when buds are swelling, but only if flea beetles or climbing cutworms are present--otherwise not needed.</u>
<u>First Regular Spray</u>	FERBAM 76W	2 lbs.	<u>Apply when most of the new shoots are 3 to 4 inches long. For black rot control.</u>
<u>Second Pre-Bloom Spray</u>	Preferred: FERBAM 76W	2 lbs.	<u>Apply about 10 days after First Regular Spray. For black rot control.</u>
	Special: MALATHION 25W	2 lbs.	

BLOOM SPRAYS

SITUATION	MATERIALS TO USE	RATES PER 100 GALS	SPECIAL INSTRUCTIONS
<u>As Blooming Begins</u>	Preferred: FERBAM 76W and FOLPET 50W <u>plus</u> DDT 50W	1 lb. 1 lb. 2 lbs.	For black rot, mildew and berry moth.
	Alternate: FERBAM 76W <u>plus</u> DDT 50W	2 lbs. 2 lbs.	

Near End
of Bloom

Preferred:
FERBAM 76W 1 lb. For black rot, mildew, berry moth, mealybugs and
and FOLPET 50W 1 lb. scale.
plus CARBARYL 50W 2 lbs.
or GUTHION 25W 1½ lbs.
or DIAZINON 50W 1 lb.

Alternate:
FERBAM 76W 2 lbs. For black rot, berry moth, mealybugs and scale.
plus CARBARYL 50W 2 lbs.
or GUTHION 25W 1½ lbs.
or DIAZINON 50W 1 lb.

10 to 12 Days
After Bloom
(mid June)

FERBAM 76W 1 lb. For black rot, berry moth, leafhopper, mealybug and
and ZINEB 65W 1 lb. scale.
plus CARBARYL 50W 2 lbs.
or DIAZINON 50W 1 lb.

SUMMER SPRAYS

SITUATION	MATERIALS TO USE	RATES PER 100 GALS	SPECIAL INSTRUCTIONS
<u>Early July</u>	FERBAM 76W and ZINEB 65W plus GUTHION 25W or DIAZINON 50W or CARBARYL 50W	1 lb. 1 lb. 1½ lbs. 1 lb. 2 lbs.	For black rot, mildew, berry moth, leafhopper, mealybug and scale.
<u>Late July</u>	Use same materials and rates as indicated in <u>EARLY JULY</u> sprays. Note: GUTHION <u>should not</u> be applied more than three times per season.		
<u>Mid-August</u>	CARBARYL 50W or DIAZINON 50W	2 lbs. 1 lb.	For berry moth, leafhopper, leaf folder.

(See back page for Special Comments and Tolerance and Interval Chart.)

SPECIAL COMMENTS:

FERBAM: Most effective fungicide for the prevention of black rot. Has little or no effect on downy mildew. Can be used to within 7 days of harvest.

FOLPET: Very effective in the prevention of downy mildew. Exhibits good fungicidal protection against black rot. Should not be used after mid-June because of possible foliage injury during hot, humid weather.

ZINEB: Effective in the prevention of downy mildew. Has little or no effect on black rot. Can be used to within 7 days of harvest.

CARBARYL: This insecticide is effective in the control of most grape insects. It is a relatively safe insecticide because the chemical is not absorbed through the skin. Its use can, however, encourage a build-up of mites. There are no time limitations on the use of carbaryl on grapes.

GUTHION: A very effective phosphate insecticide for the control of grape insects. Please read the label very carefully for precautions to the spray operator in using GUTHION. It is among the more toxic insecticides! Do not use GUTHION more than 3 times per season or within 28 days of harvest.

DIAZINON: A very effective phosphate insecticide for the control of grape insects. DIAZINON is intermediate in toxicity between GUTHION and CARBARYL. Read the label for precautions to use. Do not use DIAZINON within 10 days of harvest.

DDT: An effective, low-cost insecticide for control of pre-bloom grape insects.

MALATHION: A special use, low toxicity phosphate insecticide for mealybug control where serious outbreaks occur. Do not use within 3 days of harvest.

TOLERANCE AND INTERVAL CHART

The following chart lists the tolerances and time intervals for pesticides used on grapes. They are subject to change, but to the best of our knowledge they are correct as of January 1, 1968.

Compound	Tolerance	Approved Interval
Bordeaux mixture	exempt	No time limitation
Carbaryl	10 ppm	No time limitation
DDT	7 ppm	40 days
Diazinon	0.75 ppm	10 days
Ferbam	7 ppm	7 days
Folpet	50 ppm	No time limitation
Guthion	5 ppm	28 days--no more than 3 applications per season.
Kelthane	5 ppm	7 days
Malathion	8 ppm	3 days
Zineb	7 ppm	7 days