



**R.T. VANDERBILT
COMPANY, INC.**



ACCEPTED
4/25/71
1965-66

Vancide^{*} Maneb Flowable

**37% Maneb Dispersion
4 Pounds Maneb Per Gallon
with zinc added**

AGRICULTURAL FUNGICIDE

ACTIVE INGREDIENTS:	
MANEB (MANGANESE ETHYLENEBISDITHIOCARBAMATE) (Total manganese as metallic . . . 7.6%)	37%
INERT INGREDIENTS:	63%
	100%

DIRECTIONS FOR USE AS A SPRAY
All Recommendations Based on 100 Gallons of Spray Except as Noted

AGRICULTURAL FRUIT AND NUT CROP USES:

ALMONDS: Brown Rot Blossom and Twig Blight, Leaf Blight, Scab—1.2 to 1.6 quarts. Apply in popcorn, full bloom, and petal fall or every 7 to 10 days if bloom is staggered.
Shothole—1.2 to 1.6 quarts. Begin in dormant stage. Repeat at 7- to 10-day intervals through petal fall. If applied after petal fall, do not feed hulls to dairy animals or animals being finished for slaughter. Do not apply later than 5 weeks after petal fall.
APPLES: Black Rot, Bitter Rot, Botryosphaeria (White Rot), Bullseye Rot, Cedar-Apple Rust, Flyspeck, Scab, and Sooty Blotch—1.2 to 1.6 quarts plus suitable spreader-sticker. Begin in prebloom, calyx, or first cover stages. Repeat at 7- to 14-day intervals as necessary.

(Continued on Next Panel)

CAUTION: KEEP OUT OF REACH OF CHILDREN.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS.

MAY CAUSE IRRITATION OF EYES, NOSE, THROAT AND SKIN. AVOID BREATHING SPRAY MIST. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. IN CASE OF CONTACT, FLUSH WITH PLENTY OF WATER. FOR EYES, GET MEDICAL ATTENTION. KEEP AWAY FROM FIRE AND SPARKS.

NET CONTENTS GALS. LBS. U.S.D.A. REG. NO. 1965-66

DIRECTIONS FOR USE (continued)

APRICOTS: Brown Rot (Blossom, Twig and Fruit)—1.2 to 1.6 quarts. Begin at red bud stage. Repeat in early bloom, full bloom, petal fall, and at 7- to 14-day intervals as necessary up to 2 weeks before harvest.
Shothole—1.6 quarts from dormant through petal fall stages in regular schedule. Do not apply later than 14 days before harvest.
Jacket Rot (Green Rot)—1.6 quarts at full bloom and petal fall.
BANANAS: Crown Rot, Surface Molds (Gleosporium, Thielaviopsis, Fusarium Species)—1.6 to 3.2 quarts. Use 5.0 gallons of dilute suspension/100 trays of fruit as a post-harvest spray to fruit crowns after their passage through hydrocooler or water rins spray, or dip cut crowns in dilute suspension.
Sigatoka (Cercospora musae)—2.4 to 4.0 quarts/acre in sufficient water to cover. Apply at 2-week intervals beginning at first sign of disease.
CRANBERRIES: Fruit Rots (Massachusetts)—1.6 to 2.4 quarts. Begin at midbloom. Repeat at 10- to 14-day intervals for 3 applications.
Twig Blight (Lophodermium), Fruit Rots (Washington and Oregon)—1.6 quarts. Apply 350.0 gallons per acre. Begin after blooming. Repeat between July 10 and 20, August 10 and 20, and August 10 and 25.
Fruit Rots (Guignardia, Sporonema, and Glomerella) (New Jersey and Wisconsin)—1.6 quarts. Begin after midbloom. Repeat 10 to 14 days later, 4 weeks after midbloom and 2 to 3 weeks later. Do not apply within 30 days of harvest.
FIGS (Kadota): Surface Molds and Rot (Alternaria, Cladosporium Species)—0.6 quart. Make one application 10 to 20 days before harvest. Do not apply within 10 days of harvest.
GRAPES: Black Rot (Great Lakes Area)—1.2 to 1.6 quarts. Begin just before bloom. Repeat just after bloom and again 10 days later; do not apply later than 10 days after bloom. Or, use 1.4 quarts in sufficient water/acre. Apply as necessary; do not apply within 7 days of harvest.
NECTARINES: Brown Rot, Shothole—1.2 to 1.6 quarts. Begin at red bud. Repeat in early bloom, full bloom, petal fall, and at 7- to 14-day intervals up to 2 weeks before harvest. Do not apply within 14 days of harvest.
PAPAYAS: Anthracnose (Colletotricum), Black Spot (Cercospora)—1.6 to 2.4 quarts in sufficient water to cover (not less than 50.0 gallons) per acre. Add 4.0 ounces of spreader-sticker/100 gallons of spray suspension. Begin when fruit is set. Repeat at 10- to 14-day intervals during winter and early spring and every 7 days during wet weather. Direct spray to central column of tree to cover developing fruit.
PEACHES: Brown Rot, Scab, Shothole—See under Nectarines.
Peach Leaf Curl—1.2 to 1.6 quarts. Apply in spring dormant period. Do not apply within 2 days of harvest. If applied within 14 days of harvest, remove residues by brushing.

AGRICULTURAL VEGETABLE CROP USES

ASPARAGUS: Rust—2.4 quarts/50 to 200 gallons/acre. Begin in established fields immediately after harvest. Repeat at 10-day intervals as long as necessary. In young fields which will not be harvested, begin when disease appears and repeat at 10-day intervals. Postharvest application only on established fields.
BEANS (Lima): Anthracnose, Downy Mildew—1.2 to 1.6 quarts. Begin at first sign of disease. Repeat at 4- to 7-day intervals. Do not apply within 4 days of harvest of succulent beans.
BEANS (Snap or String): Anthracnose, Downy Mildew, Rust—1.2 to 1.6 quarts. Begin when plants are small. Repeat at 5- to 7-day intervals. Do not apply within 4 days of harvest of succulent beans.
BROCCOLI: Alternaria Leaf Spot, Downy Mildew—1.2 to 1.6 quarts. Begin when diseases threaten. For downy mildew begin in plant bed and repeat at 3-day intervals. In field, repeat at 7- to 14-day intervals. If applied within 3 days of harvest, remove residues by washing or trimming.
BRUSSELS SPROUTS, CAULIFLOWER, AND KOHLRABI: Alternaria Leaf Spot, Downy Mildew—1.2 quarts. Begin when diseases threaten. Repeat at 3-day intervals in plant beds and at 7- to 10-day intervals in field.
CABBAGE: Alternaria Leaf Spot, Downy Mildew—1.2 to 1.6 quarts. Begin 7 to 10 days after planting. Repeat at 3- to 5-day intervals in plant bed and field. Do not apply within 7 days of harvest.
CANTALOUPE, CASSABAS, CRENSHAW, HONEYDEW MELONS, HONEY BALLS, MUSK MELONS, PERSIAN MELONS, AND WATERMELONS: Anthracnose, Cercospora Leaf Spot, Downy Mildew, Gummy Stem Blight—1.2 to 1.6 quarts. Begin at late bunching when vines begin to run or when disease first appears. Repeat at 7- to 10-day intervals.
CARROTS: Alternaria and Cercospora Leaf Spot—1.2 to 1.6 quarts. Begin when plants are 6 weeks old. Repeat at 7- to 10-day intervals.
CASSABA MELONS: See under Cantaloupes.
CAULIFLOWER: See under Brussels Sprouts.
CELERY: Early Blight (Cercospora), Late Blight (Septoria)—1.2 to 1.6 quarts. Begin when plants emerge in plant beds. Repeat at 3- to 5-day intervals in plant beds and at 7- to 10-day intervals after plants are set in field. Remove excess residues by stripping, trimming, and washing.
CORN (Sweet): Helminthosporium Blight—1.2 quarts. Begin when plants are 6 inches high. Repeat at 4- to 7-day intervals until harvest. Do not feed treated forage to livestock.
CRENSHAW MELONS: See under Cantaloupes.
CUCUMBERS: Alternaria (Macrosporium) Leaf Spot, Angular Leaf Spot, Anthracnose, Downy Mildew, Pythium Fruit Rot—1.2 to 1.6 quarts. Begin when diseases threaten or plants begin to run. Repeat at 7- to 10-day intervals or at 3- to 5-day intervals under severe disease conditions.

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EGGPLANT: 1.6 quarts
ENDIVE, LETTUCE: 1.2 to 1.6 quarts at 7- to 14-day intervals after head let other of
HONEY BALLOTT: 1.6 quarts
HONEYDEW MELONS: 1.6 quarts
KOHLRABI: 1.6 quarts
LETTUCE: 1.2 to 1.6 quarts
MELONS: 1.6 quarts
MUSK MELONS: 1.6 quarts
ONIONS: 1.6 quarts
PEPPERS: 1.6 quarts
PERSIAN MELONS: 1.6 quarts
POTATOES: 1.6 quarts
POTATOES: 1.6 quarts
PUMPKINS: 1.6 quarts
RHUBARB: 1.6 quarts
SPINACH: 1.6 quarts
SQUASH: 1.6 quarts
TOMATOES: 1.6 quarts
WATERMEL: 1.6 quarts

GRASSES (Rust): 1.2 to 1.6 quarts
SUGAR BEETS: 1.2 to 1.6 quarts
TOBACCO: 1.2 to 1.6 quarts

CARNATIONS: 1.2 to 1.6 quarts
DAHLIAS: 1.2 to 1.6 quarts
DOGWOOD: 1.2 to 1.6 quarts
GLADIOLUS: 1.2 to 1.6 quarts
GRASSES (square foot): 1.2 to 1.6 quarts
LILIES: 1.2 to 1.6 quarts
PANSIES: 1.2 to 1.6 quarts
PEONIES: 1.2 to 1.6 quarts
ROSES: 1.2 to 1.6 quarts
SNAPDRAGONS: 1.2 to 1.6 quarts
ZINNIAS: 1.2 to 1.6 quarts

Vancide Maneb Flowable

4 Pounds Maneb Per Gallon
with zinc added

AGRICULTURAL FUNGICIDE

INGREDIENTS:	
MANEB (MANGANESE ETHYLENEBISDITHIOCARBAMATE)	37%
(Manganese as metallic . . . 7.6%)	
ADJUVANTS:	63%
	100%

DIRECTIONS FOR USE AS A SPRAY
Recommendations Based on 100 Gallons of Spray Except as Noted

AGRICULTURAL FRUIT AND NUT CROP USES

APPLES: Brown Rot Blossom and Twig Blight, Leaf Blight, Scab—1.2 to 1.6 quarts. Begin in early bloom, full bloom, and petal fall or every 7 to 10 days if bloom is staggered. Repeat at 7- to 10-day intervals until petal fall. If applied after petal fall, do not feed hulls to dairy animals or animals intended for slaughter. Do not apply later than 5 weeks after petal fall.
PEACHES: Brown Rot, Scab, Shothole—1.2 to 1.6 quarts plus suitable spreader-sticker. Begin in spring dormant period, or first cover stages. Repeat at 7- to 14-day intervals as necessary.

(Continued on Next Panel)

PRECAUTION: KEEP OUT OF REACH OF CHILDREN.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS.
AVOID CONTACT OF EYES, NOSE, THROAT AND SKIN. AVOID BREATHING SPRAY MIST.
WASH WITH EYES, SKIN OR CLOTHING. IN CASE OF CONTACT, FLUSH WITH PLENTY OF WATER.
EYES, GET MEDICAL ATTENTION. KEEP AWAY FROM FIRE AND SPARKS.

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APRICOTS: Brown Rot (Blossom, Twig and Fruit)—1.2 to 1.6 quarts. Begin at red bud stage. Repeat in early bloom, full bloom, petal fall, and at 7- to 14-day intervals as necessary up to 2 weeks before harvest.
JACKET ROT (Green Rot)—1.6 quarts at full bloom and petal fall.
SHOTHOLE—1.6 quarts from dormant through petal fall stages in regular schedule. Do not apply later than 14 days before harvest.
BANANAS: Crown Rot, Surface Molds (Gleospodium, Thielaviopsis, Fusarium Species)—1.6 to 3.2 quarts. Use 5.0 gallons of dilute suspension/100 trays of fruit as a post-harvest spray to fruit crowns after their passage through hydrocooler or water rinse spray, or dip cut crowns in dilute suspension.
SIGATOKA (Cercospora musae)—2.4 to 4.0 quarts/acre in sufficient water to cover. Apply at 2-week intervals beginning at first sign of disease.
CRANBERRIES: Fruit Rots (Massachusetts)—1.6 to 2.4 quarts. Begin at midbloom. Repeat at 10- to 14-day intervals for 3 applications.
Twig Blight (Lophodermium), Fruit Rots (Washington and Oregon)—1.6 quarts. Apply 350.0 gallons per acre. Begin after blooming. Repeat between July 10 and 20, August 10 and 10, and August 10 and 25.
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FIGS (Kadota): Surface Molds and Rot (Alternaria, Cladosporium Species)—0.6 quart. Make one application 10 to 20 days before harvest. Do not apply within 10 days of harvest.
GRAPES: Black Rot (Great Lakes Area)—1.2 to 1.6 quarts. Begin just before bloom. Repeat just after bloom and again 10 days later; do not apply later than 10 days after bloom. Or, use 1.4 quarts in sufficient water/acre. Apply as necessary; do not apply within 7 days of harvest.
NECTARINES: Brown Rot, Shothole—1.2 to 1.6 quarts. Begin at red bud. Repeat in early bloom, full bloom, petal fall, and at 7- to 14-day intervals up to 2 weeks before harvest. Do not apply within 14 days of harvest.
PAPAYAS: Anthracnose (Colletotricum), Black Spot (Cercospora)—1.6 to 2.4 quarts in sufficient water to cover (not less than 50.0 gallons) per acre. Add 4.0 ounces of spreader-sticker/100 gallons of spray suspension. Begin when fruit is set. Repeat at 10- to 14-day intervals during winter and early spring and every 7 days during wet weather. Direct spray to central column of tree to cover developing fruit.
PEACHES: Brown Rot, Scab, Shothole—See under Nectarines.
Peach Leaf Curl—1.2 to 1.6 quarts. Apply in spring dormant period. Do not apply within 2 days of harvest. If applied within 14 days of harvest, remove residues by brushing.

AGRICULTURAL VEGETABLE CROP USES

ASPARAGUS: Rust—2.4 quarts/50 to 200 gallons/acre. Begin in established fields immediately after harvest. Repeat at 10-day intervals as long as necessary. In young fields which will not be harvested, begin when disease appears and repeat at 10-day intervals. Postharvest application only on established fields.
BEANS (Lima): Anthracnose, Downy Mildew—1.2 to 1.6 quarts. Begin at first sign of disease. Repeat at 4- to 7-day intervals. Do not apply within 4 days of harvest of succulent beans.
BEANS (Snap or String): Anthracnose, Downy Mildew, Rust—1.2 to 1.6 quarts. Begin when plants are small. Repeat at 5- to 7-day intervals. Do not apply within 4 days of harvest of succulent beans.
BROCCOLI: Alternaria Leaf Spot, Downy Mildew—1.2 to 1.6 quarts. Begin when diseases threaten. For downy mildew begin in plant bed and repeat at 3-day intervals. In field, repeat at 7- to 14-day intervals. If applied within 3 days of harvest, remove residues by washing or trimming.
BRUSSELS SPROUTS, CAULIFLOWER, AND KOHLRABI: Alternaria Leaf Spot, Downy Mildew—1.2 quarts. Begin when diseases threaten. Repeat at 3-day intervals in plant beds and at 7- to 10-day intervals in field.
CABBAGE: Alternaria Leaf Spot, Downy Mildew—1.2 to 1.6 quarts. Begin 7 to 10 days after planting. Repeat at 3- to 5-day intervals in plant bed and field. Do not apply within 7 days of harvest.
CANTALOUPE, CASSABAS, CRENSHAW, HONEYDEW MELONS, HONEY BALLS, MUSK-MELONS, PERSIAN MELONS, AND WATERMELONS: Anthracnose, Cercospora Leaf Spot, Downy Mildew, Gummy Stem Blight—1.2 to 1.6 quarts. Begin at late bunching when vines begin to run or when disease first appears. Repeat at 7- to 10-day intervals.
CARROTS: Alternaria and Cercospora Leaf Spots—1.2 to 1.6 quarts. Begin when plants are 6 weeks old. Repeat at 7- to 10-day intervals.
CASSABA MELONS: See under Cantaloupes.
CAULIFLOWER: See under Brussels Sprouts.
CELERY: Early Blight (Cercospora), Late Blight (Septoria)—1.2 to 1.6 quarts. Begin when plants emerge in plant beds. Repeat at 3- to 5-day intervals in plant beds and at 7- to 10-day intervals after plants are set in field. Remove excess residues by stripping, trimming, and washing.
CORN (Sweet): Helminthosporium Blight—1.2 quarts. Begin when plants are 6 inches high. Repeat at 4- to 7-day intervals until harvest. Do not feed treated forage to livestock.
CRENSHAW MELONS: See under Cantaloupes.
CUCUMBERS: Alternaria (Macrosporium) Leaf Spot, Angular Leaf Spot, Anthracnose, Downy Mildew, Pythium Fruit Rot—1.2 to 1.6 quarts. Begin when diseases threaten or plants begin to run. Repeat at 7- to 10-day intervals or at 3- to 5-day intervals under severe disease conditions.

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EGGPLANT: Anthracnose, Early Blight (Alternaria), Phomopsis Blight or Fruit Rot—1.2 to 1.6 quarts. Begin when fruit starts to form. Repeat at 7- to 10-day intervals.
ENDIVE, LETTUCE: Downy Mildew—1.2 to 1.6 quarts. Begin when disease appears. Repeat at 7- to 10-day intervals. Do not apply within 7 days of harvest. Remove residues from head lettuce by stripping and trimming, and from leaf lettuce and endive by washing or other effective means.
HONEY BALL MELONS: See under Cantaloupes.
HONEYDEW MELONS: See under Cantaloupes.
KOHLRABI: See under Brussels Sprouts.
LETTUCE: See under Endive.
MELONS: See under Cantaloupes.
MUSK-MELONS: See under Cantaloupes.
ONIONS: Botrytis Leaf Blight (Blast), Downy Mildew, Purple Blotch—1.2 to 1.6 quarts. Begin at first sign of disease. Repeat at 7- to 10-day intervals.
PEPPERS: Anthracnose, Cercospora Leaf Spot (Frog-eye Spot), Ripe Rot—1.2 to 1.6 quarts. Begin when disease threatens. Repeat at 7- to 10-day intervals.
PERSIAN MELONS: See under Cantaloupes.
POTATOES: Early and Late Blights—1.2 to 1.6 quarts. Begin when plants are 2 to 6 inches high. Repeat at 5- to 10-day intervals, more often under severe late blight conditions.
POTATOES (Seed Pieces): Fusarium Seed Piece Decay—1.0 quart/10 gallons. Dip whole or cut tubers. Spread in cool place if held before planting. Seed piece treatment only. Do not use excess seed pieces for food or feed.
PUMPKINS: Angular Leaf Spot, Downy Mildew—2.4 quarts/acre in sufficient water to cover or 1.2 to 1.6 quarts/100 gallons. Begin when disease threatens. Repeat at 7- to 10-day intervals.
RHUBARB (Greenhouse Michigan): Botrytis Leaf Rot—1.6 quarts. Begin 4 weeks before harvest. Make 4 applications at 7-day intervals.
SPINACH: Downy Mildew (Blue Mold), White Rust—1.2 to 1.6 quarts. Begin when disease appears. Repeat at 7- to 10-day intervals. Do not apply within 7 days of harvest. Remove excess residues by washing.
SQUASH (Summer and Winter): Anthracnose, Downy Mildew—1.2 to 1.6 quarts. Begin when plants start to run. Repeat at 7- to 10-day intervals.
TOMATOES (Greenhouse and Field): Cladosporium Leaf Mold, Early and Late Blights, Gray Leaf Spot (Stemphylium), Septoria Leaf Spot—1.2 to 1.6 quarts. Begin at first fruit cluster and repeat at 7- to 10-day intervals.
Anthracnose—2.4 quarts. Begin when first fruit forms. Repeat at 7- to 10-day intervals.
WATERMELONS: See under Cantaloupes.

AGRICULTURAL FIELD CROP USES

GRASSES (Ornamental—Grown for Replanting Seed Purposes Only): Leaf, Stem, and Stripe Rust—1.6 to 2.4 quarts/50 to 100 gallons per acre. Begin when rust pustules are first seen. Repeat at 7- to 14-day intervals. Do not feed treated grass to livestock.
SUGAR BEETS: Leaf Spot (Cercospora)—1.2 to 2.4 quarts in sufficient water/acre. Begin when disease threatens. Repeat at 7- to 10-day intervals for 3 to 5 applications. Do not apply within 14 days of harvest. Do not feed treated tops to livestock.
TOBACCO: Blue Mold—0.4 to 3.2 quarts. Use 2.5 to 5.0 gallons of diluted suspension/100 square yards of plant bed. Begin when plants are about the size of a dime or when blue mold is first reported in area. Repeat twice weekly until plants are set in field. Use lower rates in early applications increasing to 3.2 quarts as plants increase in size.

AGRICULTURAL ORNAMENTAL CROP USES

CARNATIONS, DAHLIAS: Alternaria Leaf Spot, Anthracnose, Botrytis Blight—0.8 to 1.2 quarts. Begin when new growth starts. Repeat weekly.
DAHLIAS: See under Carnations.
DOGWOOD: Anthracnose—0.8 to 1.2 quarts. Begin when buds open. Repeat when bracts fall 4 weeks later and in late summer.
GLADIOLUS: Botrytis Blight, Curvularia and Stemphylium Leaf Spots—1.2 quarts. Begin when flower spikes are developing. Repeat 2 to 3 times at weekly intervals.
GRASSES (Nongrazed Areas): Brown Patch—4.8 fluid ounces in sufficient water/1000 square feet. Begin at first sign of disease. Repeat at 7- to 14-day intervals.
Dollar Spot—9.6 to 12.8 fluid ounces in sufficient water/1000 square feet. Apply as for brown patch, above.
Melting-Out—4.8 to 6.4 fluid ounces in sufficient water/1000 square feet. Apply as for brown patch, above.
Leaf, Stem and Stripe Rusts—2.4 quarts/100 gallons/acre. Begin when rust pustules are first seen. Repeat at 7- to 14-day intervals. Do not graze treated areas. Do not feed clippings to livestock.
LILIES: Botrytis Blight—0.8 to 1.2 quarts. Begin with new growth. Repeat weekly.
PANSIES: Anthracnose—0.8 to 1.2 quarts. Begin with new growth. Repeat weekly.
PEONIES: Alternaria Leaf Spot, Botrytis Blight, Phytophthora Blight—0.8 to 1.2 quarts. Apply to foliage and soil in early spring and early fall.
ROSES: Black Spot, Cercospora Leaf Spot (Texas), Rust (California)—0.8 to 1.2 quarts. Begin when first leaves unfold. Repeat at 7- to 10-day intervals.
SNAPDRAGONS: Rust—0.8 to 1.2 quarts. Begin with emergence. Repeat weekly.
ZINNIA: Alternaria Leaf Spot, Leaf Blights—0.8 to 1.2 quarts. Begin with emergence. Repeat weekly.