

APPLICATION RATES BY CROP FOR PURE PROTEIN DRY

DECIDUOUS FRUIT TREES

Apples, Nectarines, Peaches, Pears, Persimmons, Plums, Pomegranates, etc

1. At petal fall spray 1 lb/acre
2. When apples are a dime size spray 2 lb/acre
3. At quarter size spray 2 lbs/acre
4. At dollar size spray 1 lb/acre
5. 3 weeks before harvest, 2 lbs/acre
6. After harvest spray 1 lb/acre

CITRUS TREES

(Grapefruits, Lemons, Limes, Oranges, Pecans, Tangelos, Tangerines, etc)

Optional: At pre-bloom (2 weeks prior to bloom), 1 lb/acre

1. At petal fall spray 1 lb/acre
2. When citrus are a dime size spray 2 lb/acre
3. At quarter size spray 2 lbs/acre
4. At half dollar size spray 2 lbs/acre
5. 3 weeks before harvest, 2 lbs/acre
6. After harvest spray 1 lb/acre

Grapes

1. At new growth, 1-2 lbs/acre
2. At pre-bloom to bloom, 1-2 lbs/acre
3. 2 weeks later or at fruit set, 1-2 lbs/acre
4. 2 to 3 weeks later, 1-2 lbs/acre
5. 2 weeks before harvest, 1-2 lb/acre
6. Optional: repeat last application twice in one month before harvest to raise Brix

Nuts (Almonds, Cherries, Pecans, Pistachios, Walnuts, etc)

1. At petal fall spray 1 lb/acre
2. When almonds are a BB size spray 2 lb/acre
3. Spray 2 weeks later 1 lb/acre
4. Spray 2 weeks later 2 lbs/acre
5. 3 weeks before harvest, 2 lbs/acre
6. After harvest spray 1 lb/A

TROPICAL FRUITS

Bananas & Coco

1. Every month, spray 1-2 lbs/acre

Mangos, Litchi, Longan

1. From later of February to harvest, every month, spray 1-2 lbs/acre
 2. After harvest, spray 2 lbs/acre
- It is very important to keep Calcium (10%) and Magnesium (2%) for BIGGER FRUIT in your fertilizer program.*

VEGETABLES, MELON & FRUITS

Asparagus

1. New crop at fern growth in spring, 1-2 lbs/acre
2. Mature crop at fern growth, 1-2 lbs/acre
3. After cutting, 1-2 lbs/acre

Brassicas

Cauliflower, Broccoli, Cabbage:

1. At 4 to 6 leaf stage, 1-2 lbs/acre
2. 2 Weeks after 1st application, 2 lbs/acre
3. At Head Initiation, 2 lbs/acre
4. Optional: 2-3 weeks after last application, 2 lbs/acre

Carrots and Beets

1. At 3 to 5 leaf stage, 1-2 lbs/acre
2. Every 14 to 21 days through harvest, 1-2 lbs/acre

Celery

1. 7-10 days after transplant, 1 lb/acre or 2 Weeks after emergence, 1-2 lbs/acre
2. 2 Weeks after 1st application, 1-2 lbs/acre
3. 2 Weeks after 2nd application, 1-2 lbs/acre

Leafy Vegetables

1. At 3 to 5 leaf stage, 1-2 lbs/acre
2. Every 2 weeks prior to harvest, 1-2 lbs/acre

Legumes and Beans

1. In furrow at planting, 2 lbs/acre
2. At pre-bloom, 5 to 7 leaf stage, 2 lbs/acre
3. At bloom, 1-2 lbs/acre
4. At bean pod initiation, 1-2 lbs/acre
5. After first pick, repeat 5 for new harvest

Orchard Fruit (Cucumbers, Cucurbits, Melon, Watermelon)

1. At pink buds or 3-4 leaf, 1-2 lbs/acre
2. At petal fall, 1-2 lbs/acre
3. 2 to 3 weeks after 2nd spraying, 1-2 lbs/acre
4. Every 2 weeks prior to first picking, 1-2 lbs/acre
5. After first picking, repeat 5 for new picking

Peppers

1. At 6" stage, 1-2 lbs/acre
2. At pre-bloom, 1-2 lbs/acre
3. At initial fruiting, 1-2 lbs/acre
4. 2 to 3 days after first picking, 1-2 lbs/acre
5. Repeat 4 for new picking.

Tomatoes

1. At 6 to 8 seedling height, 1-2 lb/acre
2. At pre-bloom, 1-2 lbs/acre
3. 2 weeks after 2nd application, 2 lbs/acre
4. Repeat 3 after first picking for new picking

Keep necessary P and K 10% to your fertilizer program.

GRAINS, ECONOMIC CROPS

Corn and Sorghum

1. At 4" to 6", 1 lb/acre
2. At 12" to 18", 1-2 lbs/acre
3. At or just prior to tassel, 1-2 lb/acre
4. 3-4 weeks after last application, 1-2 lb/acre

Cotton

1. At match head square (early bud stage not including outer bracts) when bud is the size of a kitchen match, 1-2 lbs/acre.
2. 3 applications at 7-10 day intervals, 1 lb/acre
3. At first Bloom, at the first white flower, 1-2 lbs/acre
4. Repeat, 14 days later, 1-2 lbs/acre

Coffee

1. At pre-bloom to bloom, 1-2 lbs/acre
2. 3 weeks after 1st application, 1-2 lbs/acre
3. 3 weeks after 2nd application, 1-2 lbs/acre
4. 2 month prior to harvest, 2 lbs/acre
5. 1 month prior to harvest, to raise quality, 2 lbs/acre
6. Optional: After harvest, for over wintering, 2 lb/acre

Grains (Wheat, Barley, Oats, etc)

1. At 3 to 5 leaf stage, 1 lb/acre
2. 2 Weeks after 1st application, 1-2 lbs/acre
3. 2 Weeks after 2nd application, 1-2 lbs/acre
4. After grains' plant heading, 2 lbs/acre
5. Optional: 4 weeks before harvest, to raise Brix, 2 lbs/acre

Pasture

1. At early growth stage, 1-2 lbs/acre
2. 2 weeks after 1st application, 1-2 lbs/acre
3. 1-2 weeks after mowing or grazing, 1-2 lbs/acre

Peanuts

1. At 3-5 leaf, 1 lb/acre
2. 2 weeks after 1st application, 1 lb/acre
3. 2 weeks after 2nd application, 2 lbs/acre
4. 3 weeks after 3rd application, 1-2 lbs/acre
5. Optional: 4 weeks before harvest, to raise Oil, 2 lbs/acre

Rice

1. 25 to 30 days after planting, 1-2 lbs/acre
2. 30 days after 1st spray, 1-2 lbs/acre
3. After grains' plant heading, 2 lbs/acre
4. 2 to 3 weeks before harvest to raise Brix, 1-2 lbs/acre
5. Optional: 4 weeks before harvest, to raise Brix, 2 lbs/acre

Sugar beets

1. At 3 to 5 leaf stage, 1-2 lbs/acre
2. Every month through harvest, 1-2 lbs/acre

Sugar Cane

1. 25 to 30 days after planting, 1-2 lbs/acre
2. 30-45 days after 1st spray, 1-2 lbs/acre
3. Every 3-4 months after 2nd, 1-2 lbs/acre
4. 3 weeks before harvest to raise brix, 1-2 lbs/acre
5. 30 days after harvest. If ratoon crop, 1-2 lbs/acre and repeat 1 to 4 above

Soybean

1. At 3-5 leaf, 1 lb/acre
2. 2 weeks after 1st application, 1 lb/acre
3. 2 weeks after 2nd application, 2 lbs/acre
4. 3 weeks after 3rd application, 1-2 lbs/acre
5. Optional: 4 weeks before harvest, to raise Oil, 2 lbs/acre

Sunflowers

1. At 3-5 leaf, 1-2 lbs/acre
2. 2 weeks after 1st application, 1-2 lbs/acre
3. 2 weeks after 2nd application, 1-2 lbs/acre
4. 3 weeks after 3rd application, 1-2 lbs/acre
5. Optional: 4 weeks before harvest, to raise Oil, 2 lbs/acre

Teas

1. At pre-bloom to bloom, 2 lbs/acre
2. Every 2 weeks prior to first picking, 2 lbs/acre
3. 1-2 days after first picking, for second picking, 2 lbs/acre

4. Repeat 3 for new picking
5. Optional: After harvest, for over wintering, 2-4 lb/acre

Tobacco

1. 2 weeks after transplant, 1-2 lbs/acre
2. Every month, 1-2 lbs/acre
3. 20-30 days prior to harvest, 2 lbs/acre

**All applications should be applied by drip irrigation or aerial spraying.*

Keep necessary P, K and Trace elements 10% or more in your fertilizer program.

BERRIES

Blueberries

1. At pre-bloom, 1-2 lbs/acre
2. At flowering, 1-2 lbs/acre
3. At petal fall, 1-2 lbs/acre
4. 30 days after last application, 1-2 lbs/acre
5. 30 days after last application or 2 weeks prior to first picking, 1-2 lbs/acre
6. Repeat 5 for new picking
7. Optional: 2 to 4 weeks after harvest for over wintering and increased fertile buds, 1-2 lbs/acre

Brambles

1. At pre-bloom, approximately 2 weeks prior to bloom, 1-2 lbs/acre
2. After petal fall, 1-2 lbs/acre
3. 4 weeks after last application, 1-2 lbs/acre
4. 4 weeks after last application, 1-2 lbs/acre
5. 2 weeks before first picking, 1-2 lbs/acre
6. Repeat 5 for new picking

Strawberries

1. 10 days to 2 weeks after planting
2. At pre-bloom, 1 lb/acre
3. At petal fall or fruit set, 1-2 lbs/acre
4. Every week through first picking, 1-2 lbs/acre
5. Repeat 4 for new picking

IT IS VERY IMPORTANT TO KEEP ENOUGH P, K, AND TRACE ELEMENTS, ESPECIALLY CALCIUM (10%) AND MAGNESIUM (2%) FOR BIGGER FRUIT & YIELDS IN YOUR FERTILIZER PROGRAM. ADD 1 PINT OF KELP GREEN WITH YOUR APPLICATIONS OF PPD IF NEEDED.

NOTE:

PPD IS 100% WATER SOLUBLE 1 LB OF PPD CAN BE HELD IN SOLUTION IN A GALLON OF WATER. BE SURE TO MIX PPD IN WATER SOLUTION PRIOR TO RUNNING THROUGH SPRAY. FOLIAR SPRAYING'S EFFECT WILL BE BETTER THAN DRIP IRRIGATION TO FEED PLANT ROOTS.