

Recommended Dilution Rates Unless Listed: Soil: 1:20 (2½ gallons per 50 gallons of water); Foliar: 1:40 (2½ gallons per 100 gallons of water)

Shake Well Before Using & Conduct Compatibility Test Before Mixing with Other Products. When using sprayers, remove line strainer & nozzle screen. For clog free spraying, use nozzles with 0.078 or 0.097 inch opening (TeeJet Flat Nozzle Spray Tip TP 8010, TP 8015, or equivalent)

Agricultural Crop Cycles:

All Crops Not Listed Below	Apply 3 gallons per acre. 1 st application: Apply 1 gallon per acre directly to soil application before seeding/transplanting stage. 2 nd application: Apply 1 gallon per acre foliar at seedling & transplanting stage. 3 rd application: Apply 1 gallon per acre foliar after 4 to 6 weeks of second application.
Clover	Apply 3 gallons per acre. 1 st application: Apply 1 gallon per acre directly to soil during land preparation. 2 nd application: Apply ½ gallon per acre foliar, 2 to 3 weeks after seed germination. Reapply an additional ½ gallon per acre foliar after each cut.
Cotton & Corn	Apply 2-3 gallons per acre. 1 st application: Apply 1 gallon per acre directly to soil during land preparation. 2 nd application: Apply ½ gallon per acre foliar, 2 to 3 weeks after seed germination. Reapply an additional ½ gallon per acre foliar with each additional input.
Pastures	Apply 2-3 gallons per acre. 1 st application: Apply 1 gallon per acre foliar in Spring. 2 nd application: Apply 1 gallon per acre foliar after each harvesting period.
Rice	Apply 2 gallons per acre. 1 st application: Apply 1 gallon per acre on soil directly to soil after plowing/irrigation, & before transplanting rice seedlings. 2 nd application: Apply 1 gallon per acre foliar 4-5 weeks after transplanting the rice seedlings.
Soybean & Peanuts	Apply 3 gallons per acre. 1 st application: Apply 1 gallon per acre directly to soil at planting of seedlings. 2 nd application: Apply 1 gallon per acre foliar 30 days after planting. Soybeans: Can be added with a post-emergence application of glyphosate or Blazer herbicide, surfactant, & manganese during the fourth trifoliolate. 3 rd application: Apply 1 gallon per acre foliar 60 days after planting.
Tobacco	Apply 2-3 gallons per acre. 1 st application: Mix 1 gallon per 50 gallons of water in greenhouse float beds. 2 nd application: Apply 1½ gallons per acre directly to soil at transplant/seeding stage. 3 rd application: Reapply an additional ½ gallon per acre foliar with each additional input.
Wheat & Barley	Apply 2-3 gallons per acre. 1 st application: Apply 1-2 gallons per acre directly to soil at planting to increase tillers & root development. 2 nd application: Apply 1 gallon per acre foliar with liquid nitrogen at Feekes Stage 5: (Green Up) and prior to Feekes Stage 7. If applying 2 applications of nitrogen during this period use ½ gal with each application.

Turf & Ornamental Growth Cycles:

Golf Courses	Apply 2-3 gallons per acre. For greens and tees: Apply 6 ounces per 1000 square feet, 4-6 applications per year. For fairways: Apply 4 ounces per 1000 square feet, 4-6 applications per year. May be applied with fertilization, at time of aeration, over seeding, & sprigging.
Hydro-Seeding	Apply 2.5 gallons in 400-500 gallons of water per acre with the hydro-seeding mix.
Commercial Turf Landscape Turf Athletic Fields Sod Farming	Apply 2-3 gallons per acre. 1 st application: Apply 1 gallon per acre foliar at spring green up. 2 nd application: Apply 1 gallon per acre foliar 30-45 days after previous application. 3 rd application: Apply 1 gallon per acre foliar 30-45 days after previous application. * Higher rates may be required on compacted soils
Container Grown Ornamentals	Mix 2½ gallons in 50-100 gallons of water. Drench: 6 to 8 ounces per 6" (1 gallon pot) & 16 ounces per 10" (3 gallon pot). Dosatron or Similar: Adjust to 1500 ppm based on 3% concentration of original solution.
Container Potting Mix	Mix 1 gallon per yard of container mix prior to planting.
Field Grown Ornamental	Apply 2-3 gallons per acre. 1 st application: Apply 1-2 gallons per acre directly to soil at planting. 2 nd application: Apply 1 gallon per acre with a post-emergence application of glyphosate or other weed control.
Landscape (Annual Flower Beds)	1 st application: Foliar drench at transplanting (2½ gallons per 100 gallons of water). 2 nd application: Foliar drench or apply every 4 weeks (2½ gallons per 100 gallons of water).
Landscape (Trees & Shrubs) Liner & Seed Beds	1 st application: Drench soil (1:20) or spray foliage (1:40) at transplanting. 2 nd application: Drench soil (1:20) or spray foliage (1:40) during Spring or Fall fertilization.

Recommended Dilution Rates Unless Listed: Soil: 1:20 (2½ gallons per 50 gallons of water); Foliar: 1:40 (2½ gallons per 100 gallons of water)

Shake Well Before Using & Conduct Compatibility Test Before Mixing with Other Products. When using sprayers, remove line strainer & nozzle screen. For clog free spraying, use nozzles with 0.078 or 0.097 inch opening (TeeJet Flat Nozzle Spray Tip TP 8010, TP 8015, or equivalent)

Horticultural Growth Cycles:

Blueberries	<p>Apply 4-6 gallons per acre.</p> <p>Greenhouse Liners: Mix 1 gallon per yard of container mix prior to planting. Foliar apply 2½ gallons in 200 gallons of water at root initiation. Foliar reapply 2½ gallons in 200 gallons of water after 4 weeks of first application.</p> <p>Containers: Mix 2½ gallons in 200 gallons of water & apply 12 ounces per plant. Reapply after 4 weeks.</p> <p>Newly Established/ Field Grown: Mix 2½ gallons in 100 gallons of water per acre. Drench or soil treatment at planting. Foliar reapply 2½ gallons in 200 gallons of water after 4 weeks of the first application.</p>
Deciduous Fruit Trees: Apricot, Peach, Plum, Apple, Pear, & Pomegranate	<p>Apply 3 gallons per acre.</p> <p>1st application: Apply 1-2 gallons per acre at the beginning of growing season before first bloom.</p> <p>2nd application: Apply 1 gallon per acre after fruit set, followed by 1 gallon per acre in 3-4 weeks.</p>
Evergreen Fruit Trees: Citrus, Mango, Olive, Avocado, Guava	<p>Apply 3 gallons per acre.</p> <p>1st application: Apply 1 gallon per acre at the beginning of growing season before first bloom.</p> <p>2nd application: Apply 1 gallon per acre after fruit set followed by 1 gallon per acre in 3-4 weeks.</p>
Grape vines	<p>Apply 3 gallons per acre.</p> <p>1st application: Soil or Foliar apply 1 gallon per acre before budding.</p> <p>2nd application: Soil or Foliar apply the remainder into 3 applications after fruit set; every 15 days under drip irrigation, or with herbicide applications.</p>
Strawberries: (Field)	<p>Apply 4-6 gallons per acre.</p> <p>Transplanting: 1:40 (6-8 ounces per 2 gallons of water) as root dip before transplanting.</p> <p>1st application: Apply 2½ gallons per acre on soil surface 1 week after planting; based on 1:20 ratio of injector system or apply 2½ gallons per acre in 100 gallons of water soil drench.</p> <p>2nd application: Apply 1 gallon per acre 4 to 6 weeks after initial application based on above instructions.</p> <p>3rd application: Apply 1 gallon per acre at initial fruit set based on above instructions.</p>
Strawberries: (Plastic Mulched Production)	<p>Soluble fertilizers for spring fertigations are applied typically beginning April 1 & continuing through early June. Weekly fertigations using Horticulture actosol® (10-10-10) alternated with Calcium actosol® (2% Ca, 1.5% N) fertigations, both at a ½ gallon per acre rate weekly in addition to the typical 3 pounds of Nitrogen per acre weekly.</p>
Deciduous Fruit Trees: Apricot, Peach, Plum, Apple, Pear, & Pomegranate	<p>Apply 3 gallons per acre.</p> <p>1st application: Apply 1-2 gallons per acre at the beginning of growing season before first bloom.</p> <p>2nd application: Apply 1 gallon per acre after fruit set, followed by 1 gallon per acre in 3-4 weeks.</p>
Evergreen Fruit Trees: Citrus, Mango, Olive, Avocado, Guava	<p>Apply 3 gallons per acre.</p> <p>1st application: Apply 1 gallon per acre at the beginning of growing season before first bloom.</p> <p>2nd application: Apply 1 gallon per acre after fruit set followed by 1 gallon per acre in 3-4 weeks.</p>

Vegetable Growth Cycles:

All Vegetable Crops Not Listed Below	<p>Apply 3 gallons per acre.</p> <p>1st application: Apply 1 gallon per acre on soil surface prior to planting or incorporate 2-4" at planting.</p> <p>2nd application: Apply 1 gallon per acre 4 to 6 weeks after initial application (1:20)</p> <p>3rd application: Apply 1 gallon per acre at initial fruit set.</p>
Tomatoes, Peppers, Cucumbers	<p>Open Field with Flood Irrigation: Apply 3 gallons by flood irrigation and/or foliar spraying.</p> <p>Time application: Add 1 gallon to 100-150 gallons of water and then spray on soil before planting.</p> <p>Foliar reapply 1 gallon per acre after one month. Foliar reapply 1 gallon per acre in 2-4 weeks.</p> <p>Open Field/Green Houses with Drip Irrigation: Apply 3 gallons by drip irrigation.</p> <p>Time Application Under Drip Irrigation: Apply ½ gallon after planting. Reapply ½ gallon every 2 weeks.</p> <p>Greenhouse/Foliar Application with Insecticides & Fungicides: Foliar apply 2½ gallons per 100 gallons of water.</p>
Potatoes	<p>Use 3 gallons per acre yearly under pivot system.</p> <p>Time of application: Split the amount into 4 doses:</p> <p>1st application: Apply 1 gallon directly to soil at the planting of the tubers.</p> <p>2nd application: Apply 1 gallon foliar at ridge (after 25 to 30 days of planting).</p> <p>3rd application: Apply ½ gallon foliar 2 weeks after second application.</p> <p>4th application: Apply ½ gallon foliar 2 weeks after third application</p>