

Agricultural Crops

All Crops not listed below	1-2 gallons per acre at seedling stage or at transplanting. Use 2 gallons per acre post applications if needed.
Rice	Rate & methods of application: Use 2 gallons per acre in clay soil by spraying. Time of application: Spray 1 gallon per acre on soil after soil plowing and irrigation and before planting the rice seeds. Reapply 1 gallon per acre 1 month after planting the rice seeds.
Cotton & Corn	Rate & methods of application: Use 2 gallons per acre by spraying Time of application: Spray 1 gallon per acre on soil during land preparation and before planting. Reapply 1 gallon per acre after 1 month of planting and after thinning.
Wheat & Barley	Rate & methods of application: Use 1.5 gallons per acre at planting to increase tillers & root development. Reapply 1 gallon per acre with liquid nitrogen at feeks 5 stage or 2 quarts per acre if applying nitrogen twice during this stage in the spring
Clover	Rate & methods of application: Use 2 gallons per acre by spraying. Time of application: Spray in case of flood irrigation on soil or use with fertilizers in case of sprinkling irrigation. 1st dose: Apply 1 gallon per acre during land preparation 2nd dose: Reapply 1 gallon per acre after 2 to 3 weeks of seed germinations <i>Reapply an additional 0.5 gallon per acre after each cut</i>
Soybean & Peanuts	Rate & methods of application: Use 3 gallons per acre in sandy soil by spraying or drip irrigation. Time of application: Spray in case of flood irrigation on soil or use with fertilizers in case of sprinkling irrigation or drip irrigation. Split the amount into 3 doses: 1st dose: 1 gallon per acre at planting (seeding) 2nd dose: 1 gallon per acre after 30 days of planting) 3rd dose: 1 gallon per acre after 2 weeks <i>Can be added with a post-emergence application of Glyphosate or Blazer herbicide, surfactant & manganese during the fourth trifoliolate</i>
Sugar Cane	Rate & methods of application: Use 3 gallons per acre in sandy soil by spraying. Time of application: Spray on soil in case of flood irrigation. Split the amount into 3 doses: 1st dose: 1 gallon per acre at beginning of growing season 2nd dose: 1 gallon per acre after 2- 3 weeks 3rd dose: 1 gallon per acre after 2- 3weeks
Sugar Beets	Rate & methods of application: Use 3 gallons per acre in sandy soil by spraying Time of application: Spray on soil in case of flood irrigation. Split the amount into 3 doses: 1st dose: 1 gallon per acre at beginning of growing season 2nd dose: 1 gallon per acre after 2-3 weeks 3rd dose: 1 gallon per acre after 2-3 weeks
Pastures	Rate & methods of application: Apply 1.5 gallons per acre for spring application followed by 1 gallon per acre after each harvesting period.
Tobacco	Rate & methods of application: Apply 2 gallons per acre at transplant/seeding stage in transplant water. Greenhouse use 1 gallon in 50 gallons of water in float beds

Ornamentals

Commercial Nurseries (Container Grower)	Rate & methods of application: Use 3 gallons in 100 gallons of water; Drench: 6 " pots -6 to 8 ounces per plant; Drench: 10 " pots -32 ounces per plant
Container Grown Ornamentals (Newly/Established)	Rate & methods of application: Use 15 ounces per tree Time of application: Split the 15 ounces into 5 doses, each 3 ounces per tree during the growing season
Field Grown Ornamental	Rate & methods of application: Use 3 gallons in 100 gallons of water Time of application: Drench or foliar application every 4 weeks
Liner and Seed Beds	Rate & methods of application: Use 1.5 gallons in 15 gallons of water Time of application: Drench or foliar application every 4 weeks
Landscape (Ornamentals/Flower Beds)	Rate & methods of application: Use 3 gallons in 100 gallons of water; 2.5 gallons for foliar Time of application: Drench at transplanting or every 4 weeks.
Landscape (Shrubs & Trees)	Rate & methods of application: Use 3 gallons in 100 gallons of water; Drench 1-4 gallons per plant depending on size; Foliar use 2.5 gallons in 100 gallons of water to run off or 9 ounces per 1000 sq ft in 2 gallons of water to run off

Horticulture:

Deciduous fruit trees: <i>(Shed all leaves annually)</i> Apricot, Peach, Plum, Apple, Pear, & Pomegranate	Rate & Methods of Application: Use 3 gallons per acre with drip irrigation; Use 2 ounces / 6.5 gallons water as foliar application. Time of application: Use 1 gallon per acre at the beginning of growing season & before first bloom Follow up Applications: Reapply 1 gallon per acre after fruit set (Apples-Peaches) then every 2 weeks; Reapply 1 gallon per acre after fruit set then every 3 weeks for all others trees
Evergreen fruit trees: <i>Leaves are present throughout the year</i> Citrus (Orange, Lemon, Lime, etc.), Mango, Olive, Avocado, Guava	Rate & Methods of Application: Use 3 gallons per acre with drip irrigation Time of application: Use 1 gallon per acre with drip irrigation and before flowering Follow up Applications: Reapply 1 gallon per acre after fruit set followed by 1 gallon per acre in 3-4 weeks
Banana	Rate & methods of application for first time planting in new land & during land preparation using drip irrigation: Use 1 to 1.5 gallons per acre in clay soil & 1.5 to 2 gallons; Sandy soil Reapply an additional 3 to 4 gallons Time of application: Split the amount into 3 to 4 doses in the beginning of the growing season (before blooming/budding) and then every 15 days Rate & methods of application for second year of planting: Use 3 to 4 gallons Time of application: Split the amount into 3 to 4 doses in the beginning of the growing season (before blooming/budding) and then every 15 days
Grape vines	Rate & methods of application: Use 3 gallons per acre with drip irrigation Time of application: Use 1 gallon per acre before budding; Split the rest into 3 doses starting after fruit set and every 15 days under drip irrigation
Date Palm tree	Rate & methods of application: Use 15 ounces per tree Time of application: Split the 15 ounces into 5 doses, each 3 oz per tree during the growing season

Vegetables:

All Vegetable Crops not listed below	3 gallons per acre applied on soil surface or incorporate 2-4" at planting. Reapply 1.5 gallons per acre after the initial application & at prebloom. Reapply 1 gallon per acre at initial fruit set
Generals: Examples: Tomatoes, Peppers, Cucumbers	Open Field with Flood irrigation: Rate of & methods of application: Apply 3 gallons by flood irrigation and/or foliar spraying. Time application: Add 1 gallon to 100 to 150 gallons water and then spray on soil before planting. Reapply 1 gallon per acre after one month. Reapply 1 gallon per acre in 2-4 weeks. Open Field/Green Houses with drip irrigation: Rate of & methods of application: Apply 3 gallons by drip irrigation. Time application Under drip irrigation: Apply 0.5 gallon after planting. Add 0.5 gallon every 2 weeks. Green house/foliar application: Use 2 ounces in 25 gallons water With insecticides and fungicides: Use 4 ounces in 150 gallons water
Potatoes	Rate & methods of application: Apply 3 gallons per acre under pivot system. Time of application: Split the amount into 4 doses: 1st dose: 1 gallon at the planting of the tubers; 2nd dose: 1 gallon at Ridge (after 25 to 30 days of planting); 3rd dose: 1/2 gallon after 2 weeks after second application; 4th dose: 0.5 gallon after 2 weeks after third application

Turf

Hydro seeding	Use 8 gallons in 400-500 gallons of water/acre with the hydro-seeding mix
Sod Farming, Commercial Turf, & Athletic Fields	Use 3 gallons in 60 -70 gallons of water /acre. Higher rates may be required on compacted soils
Landscape Turf	Use 3 gallons in 60 -70 gallons of water /acre. For smaller applications: Use 9 ounces / 1000 in 2 gallons of water. Higher rates may be required on compacted soils
Golf Courses	For greens and tees: Use 6.0 ounces /1000 sq ft, 4 -6 applications per year For fairways: Use 4.0 ounces /1000 sq ft, 4 -6 applications per year May be applied with fertilization and at time of over seeding and sprigging

actosol can be used alone or in combination with fertilizers & chemicals as tank mixes. Check compatibility before mixing & use largest nozzle sizes to ensure clog free flow.

Recommended dilution rates unless otherwise listed: Soil: 20:1 / Foliar: 40:1