

Using AGGRAND to Grow Cotton

Cotton is a heavy feeder and requires large amounts of nutrients, especially phosphorus (P). P is usually the limiting factor in cotton production through early boll formation, but nitrogen (N) and potassium (K) are important during early plant growth and development when soil conditions limit their uptake. The addition of N along with P applications optimizes the crop response, but too much N during late vegetative growth may inhibit and delay boll formation. The addition of K increases disease tolerance and produces higher quality lint. Cotton responds to AGGRAND fertilizers when applied in pre-plant broadcast applications, banded applications at planting and as foliar and root applications after emergence.

Broadcast Applications

Apply 3 to 4 gallons per acre of AGGRAND 4-3-3 Natural Fertilizer Mixed in 40 to 60 gallons of water. Apply solution to one acre in spring or fall. Use two applications if soil is hard and low in organic matter.

And/Or

Banded Applications

Apply 2 to 3 gallons per acre of AGGRAND 4-3-3 Natural Fertilizer, 1 to 2 gallons per acre of AGGRAND Natural Bonemeal 0-12-0 and 1 quart per acre of AGGRAND Natural Kelp and Sulfate of Potash 0-0-8 mixed with 30 to 40 gallons of water.

Foliar Applications

- At 4 inch height, apply 1 to 2 gallons per acre of AGGRAND 4-3-3, 2 to 3 gallons per acre of Aggrand Natural Bonemeal 0-12-0 and 1 to 2 quarts per acre of AGGRAND Natural Kelp and Sulfate of Potash mixed with 40 to 100 gallons of water as a fine mist, using enough solution to thoroughly cover leaves. Increase spray volume as crop develops to ensure thorough coverage.
- At **pre-bloom**, if more Nitrogen is needed, apply 1 to 2 gallons per acre of 4-3-3, 2 to 3 gallons per acre of 0-12-0 and 1 quart per acre of 0-0-8 mixed with 40 to 100 gallons of water.
- At **pre-bloom**, if less Nitrogen is needed, apply 2 to 3 gallons per acre of 0-12-0 and 1 quart per acre of 0-0-8 mixed with 20 to 50 gallons of water. No 4-3-3 need be applied here.

If there is irrigation available, foliar applications can be applied through the irrigation system whether or not the following applies:

1. Center pivot
2. Wheeled
3. Gun
4. Or Drip

The addition of a biodegradable surfactant increases uptake by increasing adhesion to the leaf surface. Apply AGGRAND in early morning or late evening. Do not apply before or after rainfall or irrigation. On standard field sprayers, use turbo flood jet nozzles when applying AGGRAND to reduce clogging.

To reduce susceptibility to attack of insect and disease causing organisms, apply 1 gallon of AGGRAND 4-3-3/acre when signs of infestation first become apparent. AGGRAND added to the spray tank reduces the pesticide needed to obtain effective control by 1/3 to 1/2. Some growers find AGGRAND applications alone eliminate the need for pesticide applications when applied at the same time as pesticides.