

Using AGGRAND to Grow Corn

Corn is a heavy feeder and requires large amounts of nutrients, especially Nitrogen (N) and Phosphorus (P). N is usually the limiting factor in corn production throughout the season and P and Potassium (K) are important during early plant growth and development when soil conditions limit their uptake. All types of corn respond to AGGRAND fertilizers when they are applied in banded applications at planting and as foliar applications after emergence.

Banded Applications

Apply 2 to 3 gallons per acre of AGGRAND 4-3-3 Natural Fertilizer at planting. The addition of 1 to 2 gallons per acre of AGGRAND 0-12-0 Liquid Bonemeal along with the 4-3-3 also may be beneficial especially when phosphorus soil test levels are below 30 ppm.

Foliar Applications

- Apply 1 to 3 gallons per acre of AGGRAND 4-3-3 mixed with 30 to 75 gallons of water as a fine mist with enough solution to thoroughly cover leaves (increase spray volume as crop develops to ensure thorough coverage. Apply first application when plants are 4 to 6 inches in height.
- Repeat application when plants are 18 to 24 inches tall. Increase the application rate if leaves are chlorotic.
- A third application is applied when a few tassels are just starting to show, but this application can only be applied by aircraft, a high boy, or through an irrigation system. Another option is to apply AGGRAND when plants are 4 to 6 inches tall, 10 to 12 inches tall, and before the crop is too tall to enter the field (18 to 24 inches tall). Space the applications at least 10 days apart.

Rates vary according to soil fertility, cropping history, and other inputs that are available. Lower dilution rates are more effective than higher dilution rates. Two or three lighter applications may be more effective than one heavy application. If other constraints only allow one trip over the field, then do not exceed 4% dilution rate (4 gallons of AGGRAND to 100 gallons of water).

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. When using standard field sprayers to apply AGGRAND, use turbo flood jet nozzles to reduce clogging.

To reduce susceptibility to attack of insects and disease-causing organisms, apply 1 gallon of AGGRAND 4-3-3 per 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 that AGGRAND applications alone eliminate the need for pesticide applications when they are applied at the same times as pesticides.

Soil Applications: Mix 3 gallons of AGGRAND 4-3-3 in 20 to 30 gallons of water. Apply the solution to one acre (apply spring and fall if soil is hard and low in organic matter).