

FoliBac Ultra™

The **Phyllosphere** refers to the aerial parts of the plant: leaves, stems, buds and flowers where a community of dynamic microorganisms live. The microbes inhabiting the plant live on the exposed surfaces as well as within and between the plant's cells. Bacteria are the largest constituent in both numbers and diversity by far.

FoliBac Ultra is a biological inoculant containing Nitrogen supplying bacteria. These bacteria inhabit the leaf and leaf surface. The bacteria benefit from the plants as an energy source. To complete their life cycles, they release biochemicals containing Nitrogen which the plants utilize for supplemental Nitrogen. FoliBac Ultra is classified as a biofertilizer.

Demonstrated benefits from applications of FoliBac Ultra include:

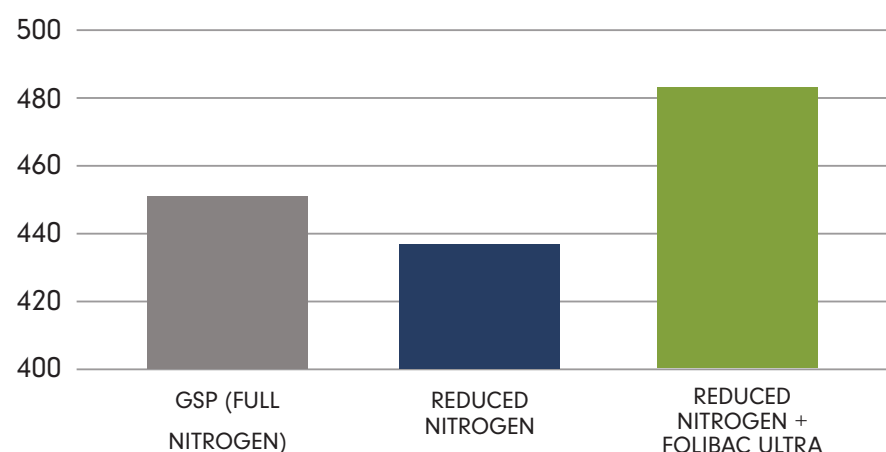
- Enhanced Nitrogen use efficiency
- Improved plant Nitrogen availability
- Increased photosynthetic activity
- Promotion of vegetative plant growth
- Stimulation of root activity



To demonstrate the efficacy of FoliBac Ultra, Nutrient TECH conducted a trial in Yuma, AZ on head lettuce. Nitrogen was reduced by 34% and FoliBac Ultra was applied at 7oz/acre at the 4 leaf stage. At the end of the season the lettuce was harvested and evaluated for head weight. Lettuce treated with FoliBac Ultra produced 7% larger heads with less applied Nitrogen than the grower standard Nitrogen program.

Yuma, AZ Lettuce

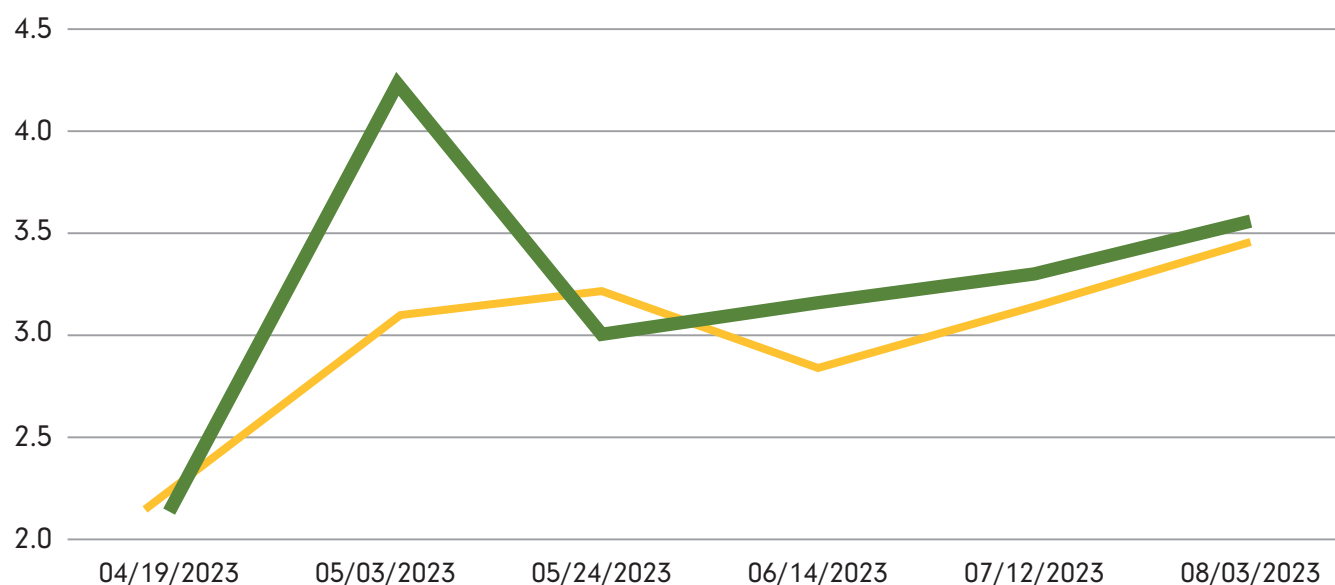
Average Head Weight (grams)



To demonstrate the efficacy of FoliBac Ultra, Nutrient TECH conducted a trial in Madera, CA on raisin grapes. Nitrogen was reduced by 40% and FoliBac Ultra™ was applied at 7oz/acre at 6-8" shoot growth. Leaf analysis showed increased Nitrogen levels in leaves within 2 weeks. At the end of the season fruit samples were harvested and evaluated for juice quality at a Wine Lab. Treated grapes had equal Brix levels and no other measured changes from FoliBac Ultra treatment.

2023 Microbial Nitrogen Study Grape Leaf

N%



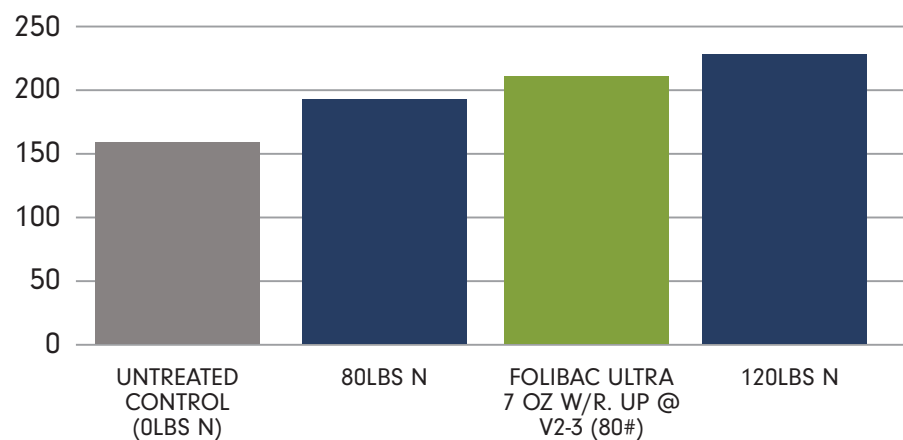
FOLIBAC ULTRA +
30 UNITS N

GROWER
STANDARDS
(50 UNITS N)

To demonstrate the efficacy of FoliBac Ultra, Nutrient TECH conducted a trial in Janesville, WI on corn. Nitrogen was reduced by 33% and FoliBac Ultra was applied at 7oz/acre with glyphosate at v4. At the end of the season the corn was harvested and evaluated for yield. Corn treated with FoliBac Ultra produced 5.6% more grain (11 bu/ac) than the reduced Nitrogen program alone.



Corn Yield (bu/acre)



FoliBac Ultra promotes efficient crop nutrient use with no lost yield or reduction in crop quality. For more information about FoliBac Ultra contact your PCA or your local Nutrient TECH representative.

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