

# AgZyme and AgConcepts SuperHume

## Increase Usable Potato Yield by 1.1 Tons Petiole Testing Shows Increase On All Three Major Nutrients on Russet Burbank Potatoes at Agriculture Development Group in Eltopia, Washington

Ag Concepts Corp completed a study of the effect of AgZyme and Super Hume on Russet Burbank Potatoes with Agriculture Development Group in Eltopia, WA during the 2012 growing season. In addition to yield testing, size grading and petiole testing were also completed. The check application was the grower standard, 30 gal/acre of 10-34-0. The test application was the grower standard plus 12.8 oz/acre AgZyme and 2 qt/acre Ag Concepts Super Hume at planting.

The first result examined was yield. As exhibited in Fig 1 the treated side showed a Usable Yield of 25.0 tons/acre at 82.7% usable. The check side had a Usable Yield of 23.9 tons/acre at 75.2% usable.

Statistically significant differences were seen in petiole sampling. Both nitrate and potassium levels in the tissue were statistically significantly greater on the treated side. Nitrate levels increased to 28,090 ppm vs 18,025 while potassium levels increased to 10.2% versus 9.18%. Numeric, but not statistic, differences were observed on tissue phosphate levels rising to 0.255% from 0.163%. According to the researcher, "this treatment is making the plant healthier by bringing more nitrate and potassium into the tissue."

These results demonstrate some the designed benefits of AgZyme and Ag Concepts Super Hume. These products are designed to increase the microbial activity of native soil microbiology. This leads to increased root mass and increased nutrient availability in the soil, with both leading to increased nutrient uptake. Evident of increased nutrient uptake is the increased petiole level and the naturally following increase in usable yield.

