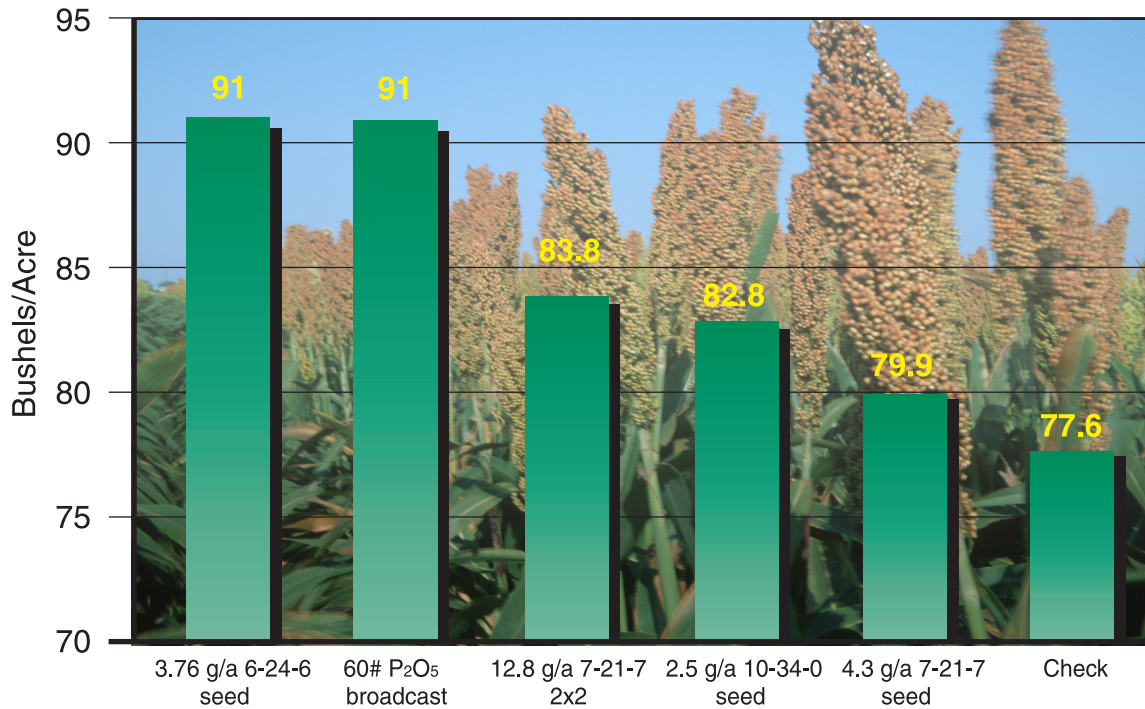


# PureGrade Liquid Plant Food

## Comparison of Phosphorus Sources and Placements<sup>1</sup> No-Till Grain Sorghum



Each seed-placed fertilizer, 6-24-6<sup>2</sup>, 10-34-0 and 7-21-7, was applied at 10 pounds/acre P<sub>2</sub>O<sub>5</sub> into the seed furrow. The 2x2 treatment of 7-21-7 equals 30 pounds/acre of P<sub>2</sub>O<sub>5</sub>.

Initial phosphorus soil test levels were 7, 5 and 4 ppm Bray P1 respectively for the 0-3, 3-6 and 6-12 inch soil depths. These are low test levels for P. Nitrogen and potassium applications were equalized so equal amounts were applied to all treatments. Nitrogen as 28% UAN was used to balance the total N amount to 100 lbs/a. Potassium was balanced with KCl to apply a total of 70 lbs/a K<sub>2</sub>O. 7-21-7 was used for the broadcast P treatment.

<sup>1</sup> Kansas State University. Comparison of starter, broadcast, and knifed phosphorus fertilizer for no-till and conventionally tilled grain sorghum. 1989. Test site: Ottawa, Kansas.

<sup>2</sup> The 6-24-6 used in this study was a low salt, neutral pH, non-corrosive, starter fertilizer comparable to Nutra-Flo's GoldStart 6-24-6.