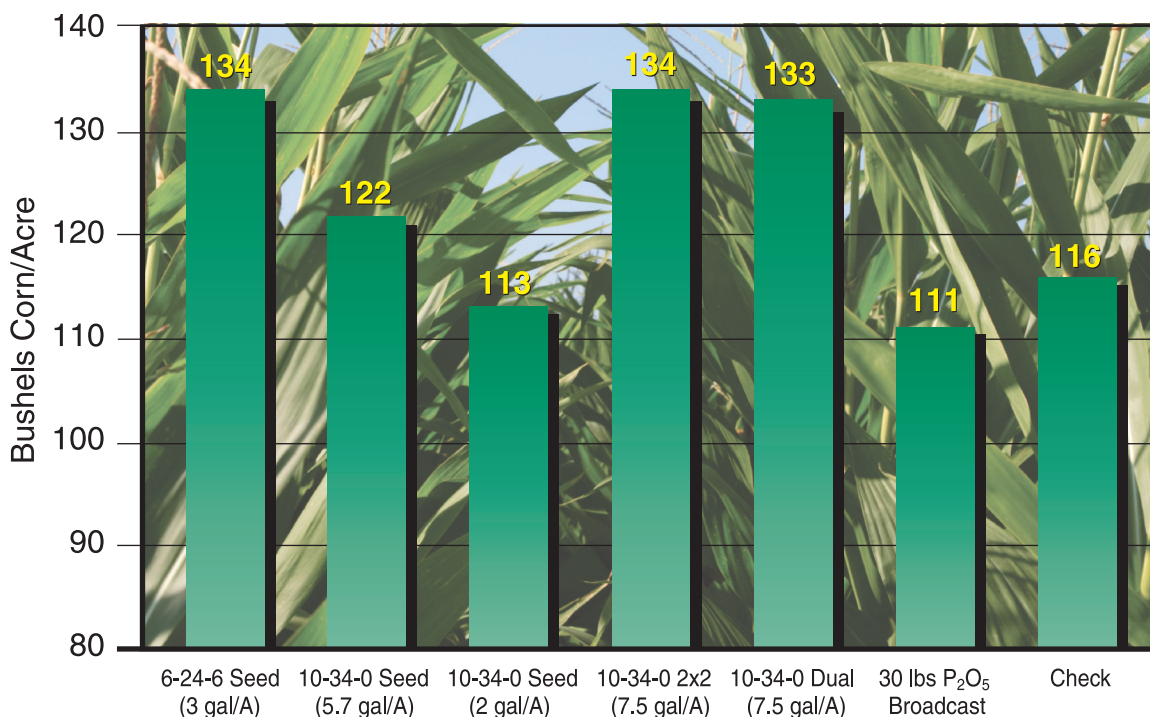


# PureGrade Liquid Plant Food

## Seed-Placed 6-24-6 on No-Till Corn Excels in Yield Comparisons<sup>1</sup>



Row placed 6-24-6<sup>2</sup> out yielded the other seed-placed fertilizer treatments. Neither of the 10-34-0 seed placed treatments matched the 6-24-6 treatment in yield performance.

10-34-0 works better when it's placed away from the seed rather than as seed placed product. To properly use 10-34-0, additional equipment is necessary. Fertilizer openers are needed for the 2x2 placement. Heavy-duty anhydrous placement equipment is generally used for 'dual placement' of 10-34-0.

The table at right shows the relationship of gallons per acre and pounds of P<sub>2</sub>O<sub>5</sub> applied. The 5.7 gallon treatment of 10-34-0 applied nearly 3 times as much P<sub>2</sub>O<sub>5</sub> as the 3 gallon treatment of 6-24-6, but still couldn't match the yield. The 2 gallon 10-34-0 seed placed applied the same amount of P<sub>2</sub>O<sub>5</sub> as the 6-24-6, but yielded less than the check. By using the low-salt, high orthophosphate 6-24-6, which also contains potassium, consistently better yields are possible.

ANALYSIS	GAL/A	LBS/A P <sub>2</sub> O <sub>5</sub>
6-24-6	3	8
10-34-0	2	8
10-34-0	5.7	23
10-34-0	7.5	30

Growers who want to increase yields rapidly on low P soils, such as when converting from dryland to irrigated, will see an opportunity to do so from this data. By combining the 2 highest yielding phosphorus treatments growers can take advantage of two different products placed where they do the most good. One combination would be to apply 10-34-0 dual placed with ammonia deep and then come back with 6-24-6 seed placed during planting. This combination of phosphorus placements should provide the very highest yield potential. It seems unwise to broadcast P<sub>2</sub>O<sub>5</sub> under no-till conditions. In the yield graph above the broadcast treatment did nothing to increase yield.

<sup>1</sup> Kansas State University

<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.