

SUPERIOR PHOSPHATE MOBILITY AND AVAILABILITY



Encourage Root Growth



Improve Phosphorus Availability



Increase Yield

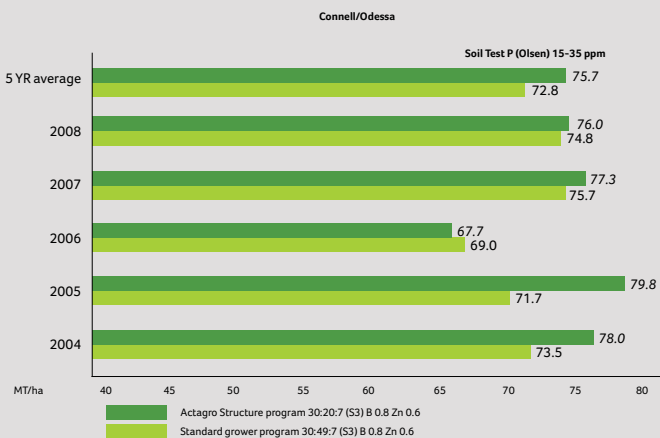


Safe on Seedling Crops

Structure (9.1 : 11.9 : 00 : 00 + 0.26% Zinc + 7.8% Reacted Carbon Technology) was specially engineered for more mobile, and significantly more available phosphate in the soil. Structure is also one of the few concentrated formulations that can effectively supply phosphorus to the root zone. This proprietary product is non-phytotoxic and will not cause root damage to tender seedlings or young plants, unlike many commodity fertilizers. Replicated trials over many years have consistently shown that Structure creates a positive growth response in plants, resulting in increased yields with less phosphate being applied.

PROVEN RESULTS

Nutrien Agronomist (Western Farm Service Agronomist 2003-2007 / Dave Barta) conducted this replicated trial at eleven different test sites throughout the Columbia Basin over 5 years. Compared 236 litre/ha of APP against 160 litre/ha of Structure and all other inputs the same. Structure outperformed by an average of 2.91 metric tons per ha with 60% less the phosphate applied.



VISIBLE CROP IMPROVEMENTS



Planter band trial in Plymouth, WA comparing 95 litre/ha (22kg P/ha) of P from APP to 90 litre/ha (11 kg P/ha) from Structure. Increased tuber set and size profile when these digs were evaluated.



PROVEN SUPERIOR BY THIRD PARTY EVALUATION

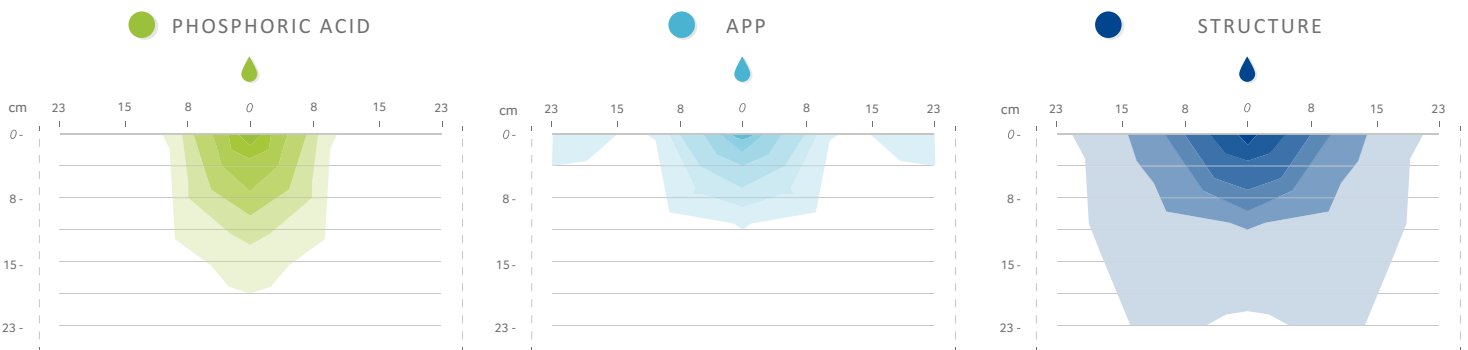
Dr. Husein Ajwa et. al, in cooperation with Actagro, LLC, evaluated the availability and movement of available soil phosphate in four fertiliser treatments over three months in Mendota, California*. Soil type was clay loam with pH of 7.8. Each treatment was replicated four times.

The experiment design was a randomized complete block with a final plot size of one, 1.524m wide, 60.96m long bed (a total plot size of 2,000m²). Fertilisers were applied through a single low flow drip irrigation tape (1 lpm/30.48m) with 101mm emitter spacing, placed in the center of the bed surface. Fertilisers were applied over a span of six hours. Beds were pre-irrigated and additional irrigation water was applied to ensure high fertigation uniformity. Irrigation occurred twice weekly to replace water lost to evaporation. No crops or weeds were allowed to grow.

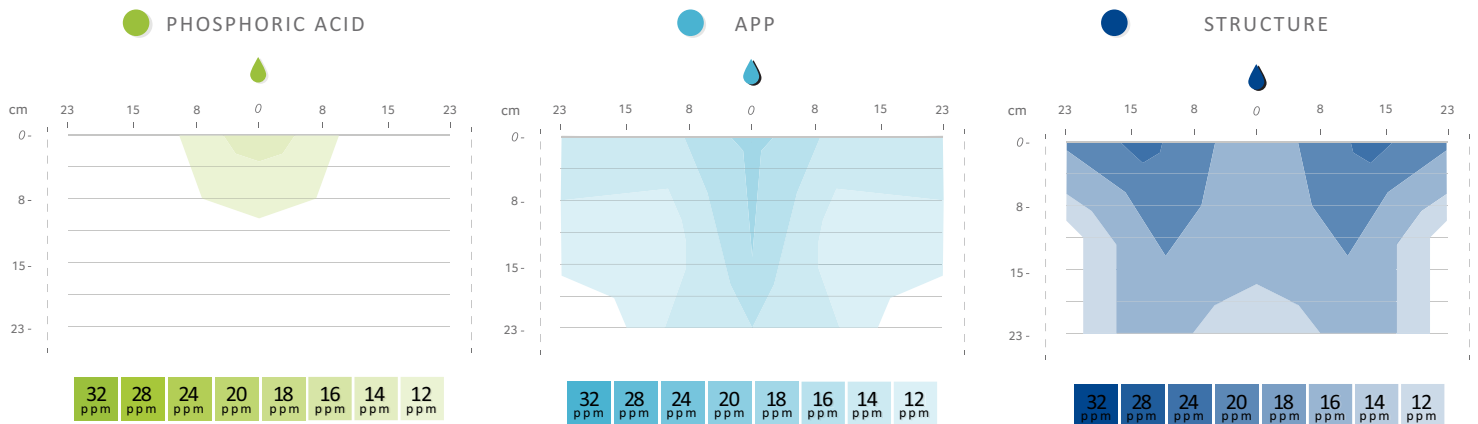
TRIAL HIGHLIGHTS

- Phosphoric acid initially moved, but was mostly tied up before 42 days.
- APP initially moved, but was largely tied up before 42 days.
- Structure moved throughout the soil and remained available for uptake for all 42 days.

DISTRIBUTION OF AVAILABLE PHOSPHORUS 2 DAYS AFTER APPLICATION OF 12mm OF UNTREATED WATER



DISTRIBUTION OF AVAILABLE PHOSPHORUS 42 DAYS AFTER APPLICATION OF 12mm OF UNTREATED WATER



*Gerecke, T., Ajwa, H., Krauter, C., Pier, J. (2011). *Greater Phosphorus Efficiency Results from Improved Mobility and Prolonged Availability*. The Fluid Journal

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