

Experiment Info 2013:

Planted:	5/6
Variety:	Crystal RR827
Population:	43,000
Row Spacing:	30"
Previous Crop:	W. Wheat
Plot Size:	15' x 265'
Replications:	4
Potash:	Fall 2012
PPI:	5/7
PRE:	5/7
Harvested:	10/30

Soil Test Values (ppm):

pH:	6.9
CEC:	9.5
% OM:	2.1
Bray P1:	10
K:	112
S:	7
% K:	3.0
% Mg:	19.5
% Ca:	77.2
% H:	0
% Na:	0.3
Zn:	1.5
Mn:	10
B:	0.5

Yield Goal:	30 Ton
Target Fertilizer Rate:	150-64-99

Objective:

To observe the comparison between a conventional dry program and a complete AgroLiquid program.

Long term averages are a great way to see how fertilizer programs affect yields. By averaging yield results over several years it takes into account different soil types that the experiments were conducted on and the different weather conditions that exist from year to year.

Each year all Agro-Culture Liquid Fertilizer programs placed phosphorus, potassium and micro nutrients in a 2x2 band with the planter. High NRG-N was used as the nitrogen source and applied as a surface broadcast after planting. Conventional programs placed phosphorus as DAP (dry spread) or 10-34-0 (2x2) and potassium as potash along with micro nutrients as a broadcast spread and tilled into the soil ahead of planting. Urea (applied the same as other dry materials) or 28% UAN (broadcast after planting) was used as the nitrogen source. All programs matched fertility needs of the test area for that particular year. The North Central Research Station uses a Gandy Orbit Air spreader to accurately spread dry materials across the entire 15' plot width. (Note: Prior to 2007 the above planter 2x2 applications were applied 1 inch to the side of the seed and at an even depth.)

Long-Term Sugarbeet Fertilizer Program Comparisons

North Central Research Station

Fertilizer Program	2002	2003	2004	2005	2007	2008	2009	2011	2013	Avg.
<i>Yield - Ton/A</i>										
AgroLiquid	24.7	21.6	23.6	21.0	29.2	26.9	27.2	20.6	32.2	25.2
Conventional	22.9	21.4	22.5	21.9	25.9	26.0	25.6	19.3	32.5	24.2

Conclusions:

- Over 9 years, there has been an average 1 Ton/A yield advantage using Agro-Culture Liquid Fertilizers compared to a conventional fertilizer program.
- AgroLiquid nutrients provide all of the necessary nutrition needed for a great sugarbeet crop.