



2022 AgroLiquid Trials with XtremeAg

Working with XtremeAg

AgroLiquid began engagement with center of influence groups with two main goals in mind. One to expand promotion of AgroLiquid products through various social media channels. Second to test AgroLiquid's core and experimental products in different geographies with different cultural practices on different crops.

One group we work with is XtremeAg. This is a group of successful farmers from across the United States that share their experiences from their farm operations through webinars, videos and social media interactions.

XtremeAg is very transparent with their what they do and will highlight both products and practices that work, along with those that don't. AgroLiquid has used this opportunity to test of the box ideas, push for high yields, and expand testing on crops we have little data on.

Below are the results for 2022 for each of the locations where testing was done.

Chad Henderson: Alabama

Corn Fertilizer Programs

Objective: Evaluate the benefits of eNhance with UAN and the addition of AgroLiquid Fulvic into a fertilizer program on corn.

This trial was evaluating

1. Grower Standard Check
2. 3 gal Pro-Germinator + 1 qt Micro 500 (in-furrow); 15 gal UAN + 2 gal Kapitalize (2x2x2)
3. 3 gal Pro-Germinator + 1 qt Micro 500 + 1 qt Fulvic (in-furrow); 15 gal UAN + 2 gal Kapitalize (2x2x2)
4. 3 gal Pro-Germinator + 1 qt Micro 500 (in-furrow); 15 gal UAN + eNhance + 2 gal Kapitalize (2x2x2) 1 qt Fulvic + 1 qt fertilizer (foliar)
5. 3 gal Pro-Germinator + 1 qt Micro 500 (in-furrow); 15 gal UAN + eNhance + 2 gal Kapitalize (2x2x2) eNhance witch SD N
6. 3 gal Pro-Germinator + 1 qt Micro 500 (in-furrow); 15 gal UAN + eNhance + 2 gal Kapitalize (2x2x2) 1 qt Fulvic + 1 qt fertilizer (foliar) eNhance with SD N

Yield results appear on the table below.



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Fertilizer Program Comparisons in Corn				
Alabama - 2022				
In-Furrow	2x2x2	Sidedress	Foliar	Yield - bu/A
Check				268.5
3 gal Pro-Germ. + 1 qt Micro 500	15 gal UAN + 2 gal Kapitalize	UAN	-	279
3 gal Pro-Germ. + 1 qt Micro 500 + 1 qt Fulvic	15 gal UAN + 2 gal Kapitalize	UAN	-	266.3
3 gal Pro-Germ. + 1 qt Micro 500	15 gal UAN + eNhance + 2 gal Kapitalize	UAN	1 qt Fulvic + 1 qt fertiRain	274.1
3 gal Pro-Germ. + 1 qt Micro 500	15 gal UAN + eNhance + 2 gal Kapitalize	UAN + eNhance		285.3
3 gal Pro-Germ. + 1 qt Micro 500	15 gal UAN + eNhance + 2 gal Kapitalize	UAN + eNhance	1 qt Fulvic + 1 qt fertiRain	294.7

Summary:

- The addition of eNhance into the full UAN program increased yield by over 5 bu/A.
- The addition of Fulvic at planting did the provide a yield response.
- Best yield was achieved with eNhance added to the UAN applications plus the addition of a foliar Fulvic and fertiRain application later in the season.

Soybean Planter Fertilizer Program Comparison

Objective: To compare Different applications of Kapitalize and Fulvic at planting and foliar on soybeans.

In this trial a comparison of AgroLiquid fertilizer programs to a grower standard was done. The standard AgroLiquid treatment was 2 gal Pro-Germ + 2 gal Kapitalize + 1 qt Micro 500 applied in-furrow. Additional applications of Kapitlaze and Fulvic were done to evaluate the yield response.

1. Grower Standard
2. 3 gal/A Pro-Germinator + 2 gal Kapitalize + 1 qt Micro 500 (IF)
3. 3 gal/A Pro-Germinator + 2 gal Kapitalize + 1 qt Micro 500 (IF) 2 gal Kapitalize + 1 qt Fulvic (fol)
4. 3 gal/A Pro-Germinator + 2 gal Kapitalize + 1 qt Micro 500 + 1 qt Fulvic (IF)



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Fertilizer Program Comparisons in Soybeans

Alabama - 2022

In-Furrow	Foliar	Yield - bu/A
Check		68.7
2 gal Pro-Germ. + 2 gal Kapitalize + 1 qt Micro 500	-	68
2 gal Pro-Germ. + 2 gal Kapitalize + 1 qt Micro 500	2 gal Kapitalize + 1 qt Fulvic	66.6
2 gal Pro-Germ. + 2 gal Kapitalize + 1 qt Micro 500 + 1 qt Fulvic		70.4

Summary:

- All treatments including the grower standard yielded similar to one another.
- The additional foliar application did provide any yield benefit.
- Highest yield was achieved with the addition of 1 qt AgroLiquid Fulvic applied at planting.

Matt Miles: Arkansas

Fertilizer Program Comparison on Cotton

Objective: Comparison of different fertilizer program in cotton.

Cotton responds very well to foliar fertilizer applications with key nutrients being potassium and boron. Additionally, there are multiple opportunities to add a foliar nutrition application with other crop protection passes. In this trial multiple applications were made with different products including AgroLiquid Fulvic, Kapitalize, fertiRain, and Boron. See the table with treatment and yield response below.



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Comparison of Foliar Fertilizer applications on Cotton

Miles Farms: McGehee, AR - 2022

Treatment	In Furrow	Pinhead Square	First bloom	3 rd Week of Bloom	1 st Mepiquat	2 nd Mepiquat	3 rd Mepiquat	Yield: lb/A
Check	Grower standard							1763
Trt 1	Grower Standard + 2 qts Fulvic	1 qt Fulvic + 1 gal Kapitalize	1 qt Fulvic + 1 gal Kapitalize	1 qt Fulvic + 1 gal Kapitalize	1 qt Fulvic + 1 gal Kapitalize			1802
Trt 2	Grower Standard + 2 qts Fulvic	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain			1835
Trt 3	Grower Standard + 2 qts Fulvic	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain + 12 oz Boron 5%	12 oz Boron 5%	12 oz Boron 5%	1832
Trt 4	Grower Standard (No Fulvic IF)	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain	1 qt Fulvic + 1 gal Kapitalize + 2 qt ferti-Rain + 12 oz Boron 5%	12 oz Boron 5%	12 oz Boron 5%	1851

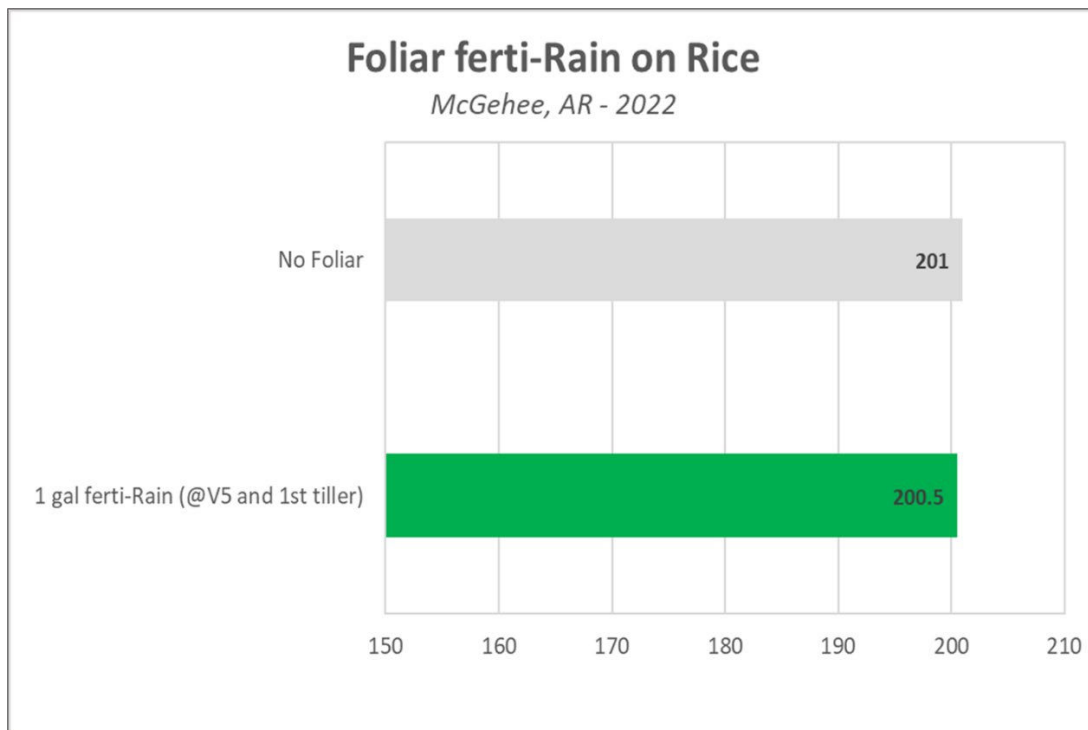
Summary:

- All AgroLiquid programs increased cotton yield over the grower standard program.
- The addition of fertiRain to the AgroLiquid program increased yield by 30 pounds/A.
- Highest yield with 1851 lbs/A was the AgroLiquid program that included no Fulvic at planting and boron with the later foliar applications.

Foliar fertiRain on Rice

Objective: To determine the benefit of a foliar application on rice.

This field trial site looked to see if there was a benefit to a foliar application of fertiRain on rice. Foliar applications are a good way to provide supplemental nutrition for a crop, not do not always show a yield response. In this location there was no yield benefit to the foliar treatment. Further testing will be done.





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Kevin Matthews: North Carolina

Planter Fertilizer Program Comparison

Objective: Comparison of AgroLiquid planter fertilizer programs applied accounting to soil test and crop demand.

This trial looked at a number of different fertilizer components. First, an experimental pop-up fertilizer UP-20 was compared to a combination with Pro-Germinator and two different rates. Additionally, knowing that soils in the area struggle with calcium, the addition of LiberateCa was made. The final application was an increased rate to see if there was a yield benefit to higher rates. Treatments are as follows and yield data is on the table below.

1. 3 gal UP-20 + 0.5 gal Micro 500
2. 2.75 Pro-Germ. + 1 gal UP-20 + 0.62 gal Micro 500
3. 2.25 Pro-Germ. + 2.25 gal UP-20 + 0.55 gal Micro 500
4. 2.25 Pro-Germ. + 2.25 gal UP-20 + 0.55 gal Micro 500 + 0.5 gal LiberateCa
5. 3.2 Pro-Germ. + 3.2 gal UP-20 + 0.78 gal Micro 500 + 0.71 gal LiberateCa

Fertilizer Program Comparisons in Corn				
North Carolina - 2021				
----- fertilizer - rates/A -----				
Pro-Germ.	UP-20	Micro 500	LiberateCa	Yield - bu/A
0	3	0.5	0	311.3
2.75	1	0.62	0	294.3
2.25	2.25	0.55	0	295.9
2.25	2.25	0.5	0.5	375.1
3.2	3.2	0.78	0.71	288.3

Summary:

- The addition of LiberateCa into the planter fertilizer program provided highest yield at 375.1 bu/A.
- Increasing the rate of this full AgroLiquid program lowered yield that the average of the entire field. Although no stand reduction was noted, the rate was likely to high for the low CEC soils.