



#### 2016 Trials

# Corn and Soybeans in MN

### SOUTHWEST MINNESOTA STATE UNIVERSITYM AGRONOMY FIELD TRIALS







#### Huma Gro

- Field Corn Trial (Phosphorus) Super Phos
- 200 Bu corn recommendation on P
- (TREATMENTS) (9 Blocks)
  - Apply 100% of recommended P with Super Phos
  - Apply 50% of recommended P with Super Phos 50% and 10-34-0 50%
  - Control 10-34-0 phosphorus at recommended level
  - Note: Pre Mix Super Phos and 10-34-0 48 Hrs. before application!!
  - PRE EMERGE (VERDICT @ 18 OZ/A) = 4.46 OZ

#### Huma Gro

- Soybean nutrient trials with Breakout, Vitol & Lucky 7.
- (TREATMANTS) (12 Blocks)
  - A. Apply Breakout (1.5 qt/A & Lucky 7 @ R1) (3 Blocks)
    B. Apply Vitol @ 1qt/A & Lucky 7 @ 1Qt/A @ R3 (3 blocks)
    C. Apply C1. (Breakout plus Lucky 7 @ 1qt R1) C2. (Vitol @ 1qt/A

plus Lucky 7 @ 1Qt/A @ R3-R4.) (3 Blocks)

D. Control: base fertility nothing foliar. (3 Blocks) PRE EMERGE HERBICIDE (VERDICT @ 5 0Z/A) = 1.65 OZ



	<u>MARY</u>				
HUMA GRO TRIALS/ASPECT AG					
SUPER PHOS™ PHOSPHORUS EVALUATIO	ON ON CORN				
10-34-0 100% Recommended P = 18.38/gpa					
TREATMENTS	REPLICATE 1	REPLICATE 2	AVERAGE YIELD	RANK	
100% Recommended P W/SUPER PHOS™ ONLY	302.09	261.41	281.75	1	
50% Recommended P W/SUPER PHOS™	266.02	257.56	261.79	3	
100% Recommended P (10-34-0 18.38/gpa)	204.11	161.08	182.6	2	
BREAKOUT™ VITOL™ NUTRIENT TRIAL SC	YBEANS				
BREAKOUT™ @ 1.5 QT/A BLOOM	60.76	54.89	57.83	1	
VITOL™ @ 1QT/A R3	47.67	51.34	49.51	4	
BREAKOUT™ 1 QT/A R1 FB VITOL™ 1QT/A R3	62.81	45.68	54.25	2	
СНЕСК	57.79	47.08	52.44	3	

## Full Huma Gro Program: Potatoes





1 <sup>st</sup> App	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total	60	1st	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
6-2-16	Planting	Days	30	Days	60	75	90	105	120	gallons	Days	Set	Set	Set	Set
			Days		Days	Days	Days	Days	Days		Totals	1.16/a	1.33/a	1.33/a	1.33/a
Super Nitro	1+	.75+	.75	1.5	1.5	1.5	1.2	1.2	1	10.5	37.5	3.75 G	4 G + 40oz	>>>	>>>
Super Phos	.5+	.25+	.25	.25	2.5	2.5	.25	.25	.25	2.5	18.75	3qts + 16oz	1 G	>>>	>>>
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5	7.5	2qts + 16oz	1qt + 11oz	>>>	>>>
44 Mag		.25		Analysis							17.5	1qt + 12oz	1qt + 11oz	>>>	>>>
Max Pak		.25		Analysis						.25	2.5	1qt + 12oz	1qt + 11oz	>>>	>>>
Soil Max	.5									.5	2.5	2qts + 24oz	2qts + 22oz	>>>	>>>
Breakout	.25									.25	1.25	1qt + 12oz	1qt + 11oz	>>>	>>>
SurfMax												24oz+ 4oz	24oz+ 10oz	>>>	>>>
Added N		1.5	1	1	1	1									

2nd App	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total	60	1st	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
6-16-16	Planting	Days	30	Days	60	75	90	105	120	gallons	Days	Set	Set	Set	Set
			Days		Days	Days	Days	Days	Days		Totals	1.16/a	1.33/a	1.33/a	1.33/a
Super	1+	.75+	.75	1.5	1.5	1.5	1.2	1.2	1	10.5	37.5	2G +	2 G +	>>>	>>>
Nitro												4oz	1qt		
Super	.5+	.25+	.25	.25	2.5	2.5	.25	.25	.25	2.5	18.75	1qt +	1qt +	>>>	>>>
Phos												5oz	12oz		
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5	7.5	2qts +	2qts +	>>>	>>>
												10oz	21oz		
44 Mag		.25		Analysis							17.5				
Max Pak		.25		Analysis						.25	2.5				
Soil Max	.5									.5	2.5				
Breakout	.25									.25	1.25				
Added N		1.5	1	1	1	1									

3 <sup>rd</sup> App	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total	60	60+	1st	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
6-29-16	Planting	Days	30	Days	60	75	90	105	120	gallons	Days	Days	Set	Set	Set	Set
			Days		Days	Days	Days	Days	Days		Totals		1.16 /a	1.33/a	1.33/a	1.33/a
Super Nitro	1	.75	.75	1.5	1.5	1.5	1.2	1.2	1	10.5	37.5		3g+ 3qts	>>	>>	>>
Super Phos	.5	.25	.25	.25	2.5	2.5	.25	.25	.25	2.5	18.75		2qts	>>	>>	>>
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5	7.5		2qts		>>	>>
													+ 21oz	>>		
44 Mag		.25		Analysis							17.5		1qt+	>>	>>	>>
Max Pak		.25		Analysis						.25	2.5		1qt+ 10oz	>>	>>	>>
Soil Max	.5									.5	2.5					
Breakout	.25									.25	1.25					
Z-Max													10oz	>>	>>	>>
Added N		1.5	1	1	1	1										

4th App	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total	60	4 <sup>th</sup>	1st	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
7-14-16	Planting	Days	30	Days	60	75	90	105	120	gallons	Days	Арр	Set	Set	Set	Set
7-20/21			Days		Days	Days	Days	Days	Days		Totals	per	1.16	1.33/a	1.33/a	1.33/a
actual												acre	/a			
Super	1	.75	.75	1.5	1.5	1.5	1.2	1.2	1	10.5	37.5	7	Split	3.5 X2	>>	>>
Nitro													3.5			
													X2			
Super	.5	.25	.25	.25	2.5	2.5	.25	.25	.25	2.5	18.75	2.5	3G	3G+	>>	>>
Phos	1	25	.5		.5		.5		25	4 5	7 5	-	201	42oz		
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5	7.5	.5	2Q+ 16oz	2Q+	>>	>>
44 Mag		.25		Analysis							17.5	1	1602 1G+	21oz 1G+	>>	>>
HT WIDE		.25									17.5	1	20oz	42oz		
Max Pak		.25		Analysis						.25	2.5	.25	1Q+	1Q+	>>	>>
													6oz	12oz		
Soil Max	.5									.5	2.5	.25	1Q+	1Q+	>>	>>
													6oz	12oz	>>	
Breakout	.25									.25	1.25	х				
Z-Max												x				
Added N		1.5	1	1								x				
Iron												.25	1Q+	1Q+	>>	>>
													6oz	12oz		
Mang												16oz	20oz	22oz	>>	>>
Copper												16oz	u	"	"	"
Boron												.25	1Q+	1Q+	>>	>>
													6oz	12oz		
Activol												.5	2Q+	2Q+	>>	>>
													16oz	21oz		

7-25-16	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total	Soil	1st	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
&	Plant	Days	30	Days	60	75	90	105	120	gallons	арр	Set	Set	Set	Set
7-29-16	ing		Days		Days	Days	Days	Days	Days		7-25	1.16	1.33/a	1.33/a	1.33/a
After 4 <sup>th</sup>												/a			
Арр															
Super Nitro	1	.75	.75	1.5	1.5	1.5	1.2	1.2	1	10.5		3.5G	3.5	>>>	>>>
Super Phos	.5	.25	.25	.25	2.5	2.5	.25	.25	.25	2.5					
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5					
44 Mag		.25		Analysis											
Max Pak		.25		Analysis						.25					
Soil Max	.5									.5					
Breakout	.25									.25					
SURFMAX												1QT	>>	>>	>>
Added N											7-29 FOLI AR-N	3G	3	>>	>>

5 <sup>th</sup> APP	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total		1st	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
8-2&3	Plant	Days	30	Days	60	75	90	105	120	gallons		Set	Set	Set	Set
	ing		Days		Days	Days	Days	Days	Days			1.16	1.33/a	1.33/a	1.33/a
												/a			
Super Nitro	1	.75	.75	1.5	1.5	1.5	1.2	1.2	1	10.5		5G	>>	>>>	>>>
Super Phos	.5	.25	.25	.25	2.5	2.5	.25	.25	.25	2.5		3G	3		
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5		3qt	>>	>>	>>
44 Mag		.25		Analysis								.5	>>	>>	>>
Max Pak		.25		Analysis						.25		.5	>>	>>	>>
Activol												.5	>>	>>	>>
Promax												1G	>>	>>	>>
Manganese												1qt	>>	>>	>>
7.00.46															
7-28-16 Foliar App															
Super Nitro												3.5G	>>	>>	>>

6 <sup>th</sup> APP	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total	1st	Set	2 <sup>nd</sup> Set	3 <sup>rd</sup>	4 <sup>th</sup>
8-18-16	Plant	Days	30	Days	60	75	90	105	120	gallons	1.1	6/a	1.33/a	Set	Set
	ing		Days		Days	Days	Days	Days	Days					1.33/a	1.33/a
Super Nitro	1	.75	.75	1.5	1.5	1.5	1.2	1.2	1	10.5	3G		>>	>>>	>>>
Super Phos	.5	.25	.25	.25	2.5	2.5	.25	.25	.25	2.5	0		>>	>>	>>
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5	0		>>	>>	>>
Max Pak		.25		Analysis						.25	.5		>>	>>	>>
Boron											.5		>>	>>	>>
Calcium											1qt		>>	>>	>>
ASAP 9-23 Soil Max											.5		>>	>>	>>
Calcium											2qt		>>	>>	>>
Super Nitro											3.5		>>	>>	>>
Super Phos											2G		>>	>>	>>
Proud 3 foliar															

7 <sup>th</sup> APP	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total	1st Set	2 <sup>nd</sup> Set	3 <sup>rd</sup>	4 <sup>th</sup>
9-3-16	Plant	Days	30	Days	60	75	90	105	120	gallons	1.16/a	1.33/a	Set	Set
Foliar	ing		Days		Days	Days	Days	Days	Days				1.33/a	1.33/a
Super Nitro	1	.75	.75	1.5	1.5	1.5	1.2	1.2	1	10.5	.5	>>	>>	>>
Super Phos	.5	.25	.25	.25	2.5	2.5	.25	.25	.25	2.5	.5	>>	>>	>>
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5	.5	>>	>>	>>
Jackpot											2.5qt	>>	>>	>>
Calcium											2qt	>>	>>	>>
8-27-16 App Foliar														
Super K											2qts	>>	>>	>>
Calcium											2qts	>>	>>	>>

8 <sup>th</sup> APP	At	0-15	15-	30-45	45-	60-	75-	90-	105-	Total	1st Set	2 <sup>nd</sup> Set	3 <sup>rd</sup>	4 <sup>th</sup>
9-15-16	Plant	Days	30	Days	60	75	90	105	120	gallons	1.16/a	1.33/a	Set	Set
Foliar	ing		Days		Days	Days	Days	Days	Days				1.33/a	1.33/a
Super Nitro	1	.75	.75	1.5	1.5	1.5	1.2	1.2	1	10.5				
Super Phos	.5	.25	.25	.25	2.5	2.5	.25	.25	.25	2.5				
Super K	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5				
Jackpot											2.5qt	>>	>>	>>
Calcium											2.5qt	>>	>>	>>









