




HUMIATM
GRO[®]

2016 Ensayos de campo

Maíz y Soya en Minnesota



SOUTHWEST

MINNESOTA STATE UNIVERSITY™

AGRONOMY FIELD TRIALS



Huma Gro

- Prueba de campo en maíz con Super Phos[®] (fósforo)
- Recomendación para 200 bu (= 12.56 tons/ha) maíz por P
 - (Tratamientos)(12 bloques)
 - Aplicar 100% de fósforo recomendado con Super Phos[®]
 - Aplicar 50% de fósforo recomendad con Super Phos[®] y 50% con 10-34-0
 - Control: 10-34-0 con el fósforo al nivel recomendado
 - Pre-mezclar Super Phos[®] y 10-34-0, 48 horas antes de aplicar!!
 - Pre-emergencia (**VERDICT @ 18 oz/acre**) = **4.46 oz**

Huma Gro

- Pruebas nutritivas con Breakout[®], Vitol[®], y Lucky 7[®] en Soya.
 - (Tratamientos) (**12 bloques**)
 - A. Aplicar Breakout (3.5 L/ha y Lucky 7[®] @R1) (3 bloques)
 - B. Aplicar Vitol[®] @ 2.3 L/ha y Lucky 7[®] @ 23.37 L/ha @ R3 (3 bloques)
 - C. Aplicar C1. (Breakout[®] y Lucky 7[®] @ 1 L R1) C2. Vitol[®] @ 2.3 L/ha y Lucky 7[®] @ 23.37 L/ha @ R3-R4) (3 bloques)
 - D. Fertilidad básica, nada foliar. (3 bloques)
- Pre-emergencia herbicida (**VERDICT** @ 5 oz/ac) = **1.65 oz**



2015 SMSU RESEARCH TRIAL SUMMARY

HUMA GRO® TRIALS/ASPECT AG

SUPER PHOS® PHOSPHORUS EVALUATION 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 SOYBEANS

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
CHECK	57.79	47.08	52.44	3

Programa Huma Gro[®] completa: Patata





1 st App 6-2-16	At Planting	0-15 Days	15-30 Days	30-45 Days	45-60 Days	60-75 Days	75-90 Days	90-105 Days	105-120 Days	Total gallons	60 Days Totals	1st Set 1.16/a	2 nd Set 1.33/a	3 rd Set 1.33/a	4 th Set 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	>>>	>>>
Surf-Max®												24oz+ 4oz	24oz+ 10oz	>>>	>>>
Added N		1.5	1	1	1	1									

Las unidades son galones. La dosis de aplicación es **por acre**. Todas las aplicaciones (mayormente NPK) son sujeto de analisis y puede cambiar según la necesidad.

2nd App 6-16-16	At Planting	0-15 Days	15- 30 Days	30-45 Days	45- 60 Days	60- 75 Days	75- 90 Days	90- 105 Days	105- 120 Days	Total gallons	60 Days Totals	1st Set 1.16/a	2 nd Set 1.33/a	3 rd Set 1.33/a	4 th Set 1.33/a
Super Nitro®	1+	.75+	.75	1.5	1.5	1.5	1.2	1.2	1	10.5	37.5	2G + 4oz	2 G + 1qt	>>>	>>>
Super Phos®	.5+	.25+	.25	.25	2.5	2.5	.25	.25	.25	2.5	18.75	1qt + 5oz	1qt + 12oz	>>>	>>>
Super K™	1	.25	.5	.5	.5	.5	.5	.5	.25	4.5	7.5	2qts + 10oz	2qts + 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									

Las unidades son galones. La dosis de aplicación es **por acre**. Todas las aplicaciones (mayormente NPK) son sujeto de analisis y puede cambiar según la necesidad.

3rd App 6-29-16	At Planting	0-15 Days	15- 30 Days	30-45 Days	45- 60 Days	60- 75 Days	75- 90 Days	90- 105 Days	105- 120 Days	Total gallons	60 Days Totals	60+ Days	1st Set 1.16 /a	2 nd Set 1.33/a	3 rd Set 1.33/a	4 th Set 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										

Las unidades son galones. La dosis de aplicación es **por acre**. Todas las aplicaciones (mayormente NPK) son sujeto de analisis y puede cambiar según la necesidad.

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

7-25-16 & 7-29-16 After 4 th App	At Plant ing	0-15 Days	15- 30 Days	30-45 Days	45- 60 Days	60- 75 Days	75- 90 Days	90- 105 Days	105- 120 Days	Total gallons		Soil app 7-25	1st Set 1.16 /a	2 nd Set 1.33/a	3 rd Set 1.33/a	4 th Set 1.33/a
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						
Surf-Max [®]													1QT	>>	>>	>>
Added N												7-29 FOLI AR-N	3G	3	>>	>>

Las unidades son galones. La dosis de aplicación es **por acre**. Todas las aplicaciones (mayormente NPK) son sujeto de analisis y puede cambiar según la necesidad.

5 th APP 8-2&3	At Plant ing	0-15 Days	15- 30 Days	30-45 Days	45- 60 Days	60- 75 Days	75- 90 Days	90- 105 Days	105- 120 Days	Total gallons			1st Set 1.16 /a	2 nd Set 1.33/a	3 rd Set 1.33/a	4 th Set 1.33/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	>>	>>	>>
7-28-16 Foliar App																
Super Nitro®													3.5G	>>	>>	>>

All rates are in gallons. Application rates are per acre. And all later applications (mainly NPK are subject to analysis) and may change if more or less is needed.

6 th APP 8-18-16	At Plant ing	0-15 Days	15- 30 Days	30-45 Days	45- 60 Days	60- 75 Days	75- 90 Days	90- 105 Days	105- 120 Days	Total gallons		1st Set 1.16/a	2 nd Set 1.33/a	3 rd Set 1.33/a	4 th Set 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 [®]												3.5G	>>	>>	>>
Super Phos [®]												2G	>>	>>	>>
Proud 3 [®] foliar															

7 th APP 9-3-16 Foliar	At Plant ing	0-15 Days	15- 30 Days	30-45 Days	45- 60 Days	60- 75 Days	75- 90 Days	90- 105 Days	105- 120 Days	Total gallons			1st Set 1.16/a	2 nd Set 1.33/a	3 rd Set 1.33/a	4 th Set 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 th APP 9-15-16 Foliar	At Plant ing	0-15 Days	15- 30 Days	30-45 Days	45- 60 Days	60- 75 Days	75- 90 Days	90- 105 Days	105- 120 Days	Total gallons			1st Set 1.16/a	2 nd Set 1.33/a	3 rd Set 1.33/a	4 th Set 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	>>	>>	>>

Las unidades son galones. La dosis de aplicación es **por acre**. Todas las aplicaciones (mayormente NPK) son sujeto de analisis y puede cambiar según la necesidad.



Field Application

Field No.	Area (sq. ft.)	Rate (lb/acre)	Amount (lb)	Notes
1	100	10	10	
2	200	10	20	
3	300	10	30	
4	400	10	40	
5	500	10	50	
6	600	10	60	
7	700	10	70	
8	800	10	80	
9	900	10	90	
10	1000	10	100	
11	1100	10	110	
12	1200	10	120	
13	1300	10	130	
14	1400	10	140	
15	1500	10	150	
16	1600	10	160	
17	1700	10	170	
18	1800	10	180	
19	1900	10	190	
20	2000	10	200	
21	2100	10	210	
22	2200	10	220	
23	2300	10	230	
24	2400	10	240	
25	2500	10	250	
26	2600	10	260	
27	2700	10	270	
28	2800	10	280	
29	2900	10	290	
30	3000	10	300	
31	3100	10	310	
32	3200	10	320	
33	3300	10	330	
34	3400	10	340	
35	3500	10	350	
36	3600	10	360	
37	3700	10	370	
38	3800	10	380	
39	3900	10	390	
40	4000	10	400	
41	4100	10	410	
42	4200	10	420	
43	4300	10	430	
44	4400	10	440	
45	4500	10	450	
46	4600	10	460	
47	4700	10	470	
48	4800	10	480	
49	4900	10	490	
50	5000	10	500	

