

BECK'S Starter Fertilizer / MicroNutrient Study - 2005

Location: H1 plot	Previous Crop: Soybeans
Planted: May 2, 2005	Tillage: Zone-Till
Harvested: September 27, 2005	Herbicide: PPI: 2.5 qts. Bicep II Magnum
Rows: Two 30" rows	1.0 qt. Princep
Population: 32,500 seeds/A.	Post: 1.6 qts. Lexar / 8 oz. Stinger
Soil Type:	Insecticide: Aztec

RAINFALL	
April	3.4 in.
May	3.2 in.
June	4.0 in.
July	6.8 in.
August	<u>3.3 in.</u>
Total	20.7 in.

Purpose: Recent interest among farmers regarding starter fertilizers and micronutrients led us to do this research to compare different programs currently available to our customers.

Yield Rank	Brand-Hybrid	Harvested Population	Test Weight	Percent Moisture	Bushels* Per Acre	Bu./A. Difference
<u>ROYSTER-CLARK PROGRAM</u>						
1	BECK 7538Bt 1	28,500	52.5	26.1	226.2	
2	BECK 5214Hx1	29,000	51.5	22.4	222.6	
3	BECK 5597Hx1	28,000	50.0	24.9	221.4	
4	BECK 5597LL	<u>28,500</u>	<u>50.5</u>	<u>24.2</u>	<u>215.9</u>	
	ROYSTER CLARK AVERAGE	28,500	51.1	24.4	221.5	+5.7
	NO STARTER AVERAGE	28,125	51.4	24.6	215.8	
<u>AGRO CULTURE PROGRAM</u>						
1	BECK 7538Bt 1	28,500	52.5	26.9	221.3	
2	BECK 5214Hx1	28,000	50.5	23.4	218.3	
3	BECK 5597Hx1	28,500	50.5	24.9	208.2	
4	BECK 5597LL	<u>29,000</u>	<u>50.0</u>	<u>24.0</u>	<u>202.0</u>	
	AGRO CULTURE AVERAGE	28,500	50.9	24.8	212.4	+0.4
	NO STARTER AVERAGE	27,375	50.6	24.5	212.0	
<u>CONKLIN PROGRAM</u>						
1	BECK 7538Bt 1	27,500	52.0	26.7	231.3	
2	BECK 5214Hx1	28,000	52.0	23.1	210.4	
3	BECK 5597Hx1	30,000	50.5	25.0	204.6	
4	BECK 5597LL	<u>29,000</u>	<u>50.5</u>	<u>25.4</u>	<u>200.3</u>	
	CONKLIN AVERAGE	28,625	51.3	25.1	211.7	+1.5
	NO STARTER AVERAGE	27,938	51.3	25.2	210.2	
<u>BECK'S PROGRAM</u>						
1	BECK 7538Bt 1	30,000	52.5	25.2	220.5	
2	BECK 5214Hx1	28,000	52.0	21.6	204.0	
3	BECK 5597LL	30,000	50.0	23.8	201.6	
4	BECK 5597Hx1	<u>26,500</u>	<u>50.5</u>	<u>24.0</u>	<u>199.0</u>	
	BECK'S AVERAGE	28,625	51.3	23.7	206.3	-8.6
	NO STARTER AVERAGE	28,125	50.9	24.3	214.9	
	OVERALL AVERAGE (Starter) All Programs	28,563	51.1	24.5	213.0	-0.2
	OVERALL AVERAGE (No Starter)	27,719	51.0	24.7	213.2	

*Bushels per acre corrected to 15% moisture.

Note: The Agroculture Program recommends lower total nitrogen units because their recommendations are based on the availability of their special formulation.

Summary: Only one starter program showed a significant yield improvement: the Royster Clark Program gave a 5.7 bushel per acre increase. The overall comparison showed no yield difference between starter use or non-use in this year's test. It appears that sulfur and zinc showed an advantage this year.

BECK'S Starter Fertilizer / MicroNutrient Study - Continued

Royster-Clark Program	Description	Product	Rate	Total # N	Total # P	Total # K	Total # S	Total # Zn
	Row Starter w/ Zn & Sulfur	10-30-0-2.5S-.5Z	8.5 gal./A.	10.06	30.2	0	2.5	0.5
	28%UAN	28-0-0	8.5 gal./A.	25.37	0	0	0	0
		Total	17 gal./A.					
Chemical App	28%UAN	28-0-0	18 gal./A.	53.64				
Sidedress	28%UAN	28-0-0	26 gal./A.	77.48				
		Total		166.55	30.2	0	2.5	0.5

Agroculture Program	Description	Product	Rate	Total # N	Total # P	Total # K	Total # S	Total # Zn
	Progerm	9-24-3	3 gal./A.	2.997	7.992	0.999	0	0
	Hi NRGN	27-0-0-1	14 gal./A.	40.446	0	0	1.498	0
		Total	17 gal./A.					
Chemical App	Water		7 gal./A.	0				
	Hi NRGN	27-0-01	11 gal./A.	31.779			1.177	
		Total	18 gal./A.					
Sidedress	Hi NRGN	27-0-0-1	15 gal./A.	43.335			1.605	
		Total		118.557	7.992	0.999	4.28	0

Conklin Program	Description	Product	Rate	Total # N	Total # P	Total # K	Total # S	Total # Zn
	Row Starter	10-34-0	7.75 gal./A.	9.176	31.1984	0	0	0
	28% UAN	28-0-0	7.75 gal./A.	23.1322	0	0	0	0
	Feast SideKick	0-0-25-17S	1 gal./A.	0	0	3.05	2.074	0
	Feast Chelate Zinc	9% Zinc	0.5 gal./A.					0.495
		Total	17 gal./A.					
Chemical App	28%UAN	28-0-0	18 gal./A.	53.7264	0	0	0	0
Sidedress	28%UAN Guardian	28-0-0 Additive	24 gal./A. 1 qt./A.	71.6352	0	0	0	0
		Total		157.67	31.20	3.05	2.07	0.50

Beck's Program	Description	Product	Rate	Total # N	Total # P	Total # K	Total # S	Total # Zn
	Row Starter	10-34-0	8.5 gal./A.	10.06	34.21	0	0	0
	28%UAN	28-0-0	8.5 gal./A.	25.37	0	0	0	0
		Total	17 gal./A.					
Chemical App	28%UAN	28-0-0	18 gal./A.	53.64				
Sidedress	28%UAN	28-0-0	26 gal./A.	77.48				
		Total		166.55	34.21	0	0	0