

RESEARCH FOR RESULTS



2020 Seed Company Corn Trials

OVERVIEW: This is year 5 of a continuing study conducted by a major seed company utilizing various organic seed treatments on corn vs. an Untreated Check (UTC).

LOCATION: Four central U.S. states: IOWA, ILLINOIS, INDIANA, KENTUCKY

PLOT: VARIOUS

HYBRID: ORGANIC

2020 BECK'S CORN TREATMENT STUDY - ORGANIC - IOWA								
CODE	TREATMENT	IA Mt. Pleasant						
		Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Avg.
		Treatment #2	1R	230.9	221.9	235.7	245.2	242.9
Treatment #4	Competitor #1	237.7	257.8	287.9	268.7	206.1	202.0	243.4
Treatment #3	1R-Plus	217.8	236.4	244.4	245.3	260.2	253.1	242.9
Treatment #5	Competitor #2	215.6	229.0	237.9	247.3	228.6	235.7	232.4
Treatment #6	Competitor #3	217.7	243.1	236.7	245.2	233.3	213.4	231.6
Treatment #1	UTC	195.0	244.8	266.0	245.5	214.5	228.4	232.4
MEAN								236.5
CV								7.3
LSD								20.2

SUMMARY:

SoilBiotics **1r-plus Seed Treatment** = 2nd of 6; 103% of Mean Avg., +6.4 Avg. bu/A vs. Check. **Organic 1r Seed Treatment** = 3rd of 6 at 100% of Mean Avg.

2020 BECK'S CORN TREATMENT STUDY - ORGANIC - ILLINOIS								
CODE	TREATMENT	IL						
		Seneca						
		Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Avg.
Treatment #2	1R	235.3	230.7	245.6	233.1	212.9	206.1	227.3
Treatment #4	Competitor #1	237.6	193.0	211.4	219.4	231.6	244.4	222.9
Treatment #3	1R-Plus	232.9	234.3	223.3	236.6	250.4	239.6	236.2
Treatment #5	Competitor #2	221.5	236.2	234.0	236.1		234.6	232.5
Treatment #6	Competitor #3	263.4	230.6		205.0	220.0	224.2	228.6
Treatment #1	UTC	238.7	230.7	237.5	233.6	242.2	233.7	236.1
MEAN								230.6
CV								7.2
LSD								19.7

SUMMARY:

SoilBiotics **1r-plus Seed Treatment** = 1st of 6; 102% of Mean Avg., +5.6 Avg. bu/A vs. Check. **Organic 1r – Seed Treatment** = 5th of 6; 99% of Mean Avg., -3.3 Avg. bu/A vs. Check.

2020 BECK'S CORN TREATMENT STUDY - ORGANIC - INDIANA																
CODE	TREATMENT	IN														
		Muncie							Bourbon							
		Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Avg.	
Treatment #2	1R	224.2	232.1	251.6	232.8	235.8	252.2	238.1	285.1	302.0	271.1	312.0	287.2	292.2	291.6	
Treatment #4	Competitor #1	222.5	230.9	258.5	259.4	239.5	238.6	241.6	274.8	231.5	274.8	298.6	301.2	289.7	278.4	
Treatment #3	1R-Plus	204.0	224.5	220.3	210.6	196.5	241.2	216.2	300.6	224.4	284.6	293.9	262.5	283.8	275.0	
Treatment #5	Competitor #2	206.1	250.4	245.1	234.1	243.9	206.8	231.1	267.1	297.6	225.3	297.1	286.9	300.7	279.1	
Treatment #6	Competitor #3	228.9	196.2	254.0	240.4	161.7	212.0	215.5	236.6	234.9	281.1	282.9	318.4	286.6	273.4	
Treatment #1	UTC	222.0	234.9	244.8	266.2	200.3	222.8	231.8	274.6	270.8	282.6	293.3	234.7	254.6	268.4	
MEAN								229.1							277.7	
CV								7.9							8.9	
LSD								21.5							29.2	

SUMMARY:

SoilBiotics **Organic 1r-Seed Treatment** = (Muncie) 2nd of 6; 103% of Mean Avg., +6.3 Avg. bu/A vs. Check.

SoilBiotics **1r-plus Seed Treatment** = (Muncie) 5th of 6; 93% of Mean Avg., -15.6 Avg. bu/A vs. Check.

SoilBiotics **Organic 1r-Seed Treatment** = (Bourbon) 1st of 6; 109% of Mean Avg., +23.2 Avg. bu/A vs. Check.

SoilBiotics **1r-plus Seed Treatment** = (Bourbon) 3rd of 6; 102% of Mean Avg., +6.6 Avg. bu/A vs. Check.

2020 BECK'S CORN TREATMENT STUDY - ORGANIC - KENTUCKY								
CODE	TREATMENT	KY						
		Columbia						
		Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Avg.
Treatment #2	1R	201.4	219.6	255.6	211.5	218.7	257.8	227.4
Treatment #4	Competitor #1	213.0	225.3	261.4	233.4	212.6	208.1	225.6
Treatment #3	1R-Plus	198.9	247.9	236.4	236.0	194.8	248.9	227.2
Treatment #5	Competitor #2	212.0	241.8	250.7	216.6	173.1	230.0	220.7
Treatment #6	Competitor #3	233.0	213.8	231.4	250.5	227.7	229.8	231.0
Treatment #1	UTC	187.0	225.0	229.2	236.8	166.1	175.7	203.3
MEAN								222.5
CV								7.8
LSD								20.7

SUMMARY:

Organic 1r – Seed Treatment = 2nd of 6; 112% of Mean Avg., +24.1 Avg. bu/A vs. Check. SoilBiotics **1r-plus Seed Treatment** = 3rd of 6; 112% of Mean Avg., +23.9 bu/A vs. Check.

NOTES: These tests were conducted strictly for Seed Treatment performance and not conducted in a true restricted Organic program. They were instead conducted utilizing the growers actual normal cropping plans. These included all standard tillage, fertilizer and other input programs, so results are more indicative of “real world” farming.

2020 BECK'S CORN TREATMENT STUDY - ORGANIC - 4-STATE TOTALS				
CODE	TREATMENT	Replicated Average	Yield % of Mean	OVERALL RANK
Treatment #2	1R	244.2	102.0%	1
Treatment #4	Competitor #1	242.4	101.3%	2
Treatment #3	1R-Plus	239.5	100.1%	3
Treatment #5	Competitor #2	239.1	99.9%	4
Treatment #6	Competitor #3	236.0	98.7%	5
Treatment #1	UTC	234.4	98.0%	6
MEAN		239.3		MEAN
CV				CV
LSD				LSD

FINAL SUMMARY: SoilBiotics **Organic 1r-Seed Treatment** placed **1st overall** of 6 seed treatments tested at 102% of Mean Avg., and +9.8 bu/A vs. Untreated Check over the 4-state study. **1r-plus Seed Treatment*** scored 100.1% of Mean Avg., and a +5.1 Avg. bu/A vs. Untreated Check over the 4-state study.

*SoilBiotics **1r-plus Seed Treatment** is marketed under the tradename **Seed Start 200**.