

RESEARCH FOR RESULTS



2017 Seed Company Corn Trials

OVERVIEW:

This is year 2 of a continuing study conducted by a major seed company utilizing various organic seed treatments on corn vs. an Untreated Check (UTC) and their own highly successful Conventional seed treatment (Hard Chemistries).

LOCATION:

Four central U.S. states: IOWA, ILLINOIS, INDIANA, KENTUCKY (replaces OHIO AND TENNESSEE from 2016)

PLOT:

VARIOUS

HYBRID:

ORGANIC

2017 CORN TREATMENT STUDY - ORGANIC - IOWA

CODE	TREATMENT	IA Marshalltown			Mt. Pleasant			Avg.
		Rep 1	Rep 2	Avg.	Rep 1	Rep 2		
Treatment #2	Hard Chemistries	252.9	236.0	244.5	186.3	197.1	191.7	
Treatment #5	1R	288.3	244.9	266.6	208.6	197.9	203.3	
Treatment #3	OBT B1 + 1R	252.5	257.1	254.8	193.2	213.4	203.3	
Treatment #9	068869-B	228.6	247.8	238.2	202.7	207.0	204.9	
Treatment #16	MALiquid2017	249.6	250.1	249.9	217.0	217.5	217.3	
Treatment #18	TB	238.5	245.3	241.9	188.0	199.4	193.7	
Treatment #11	ALB-03	243.4	240.9	242.2	196.0	205.1	200.6	
Treatment #4	Fast 2 Grow	243.2	265.8	254.5	195.7	192.5	194.1	
Treatment #12	ALB-02		233.8	233.8	211.1	180.0	195.6	
Treatment #13	OBT B1	207.6	229.9	218.8	217.9	227.4	222.7	
Treatment #15	OBT B2	243.4	232.4	237.9	209.5	183.5	196.5	
Treatment #20	Buncha Bugs	237.4		237.4	179.1	203.2	191.2	
Treatment #8	BioMantra Seed+	229.1	250.7	239.9	195.4	152.4	173.9	
Treatment #19	RootShield Seed Treat	234.4	239.3	236.9	217.1	175.1	196.1	
Treatment #10	ASCO II	234.2	238.7	236.5	208.8	179.4	194.1	
Treatment #7	RC2017	255.5	231.5	243.5	187.4	197.3	192.4	
Treatment #14	OBT B3		284.4	284.4	179.8	145.9	162.9	
Treatment #6	Myco Seed Treat	245.2	236.7	241.0	180.7	170.7	175.7	
Treatment #17	GSB	244.4	232.8	238.6	204.4	192.0	198.2	
Treatment #1	UTC	195.3		195.3	210.2	217.6	213.9	
MEAN				237.0			192.7	
CV				5.8			7.5	
LSD				29.3			30.9	

SUMMARY:

SoilBiotics Organic 1r – Seed Treatment = (Marshalltown) 2nd of 20; 112% of Mean Avg., +71 Avg. bu/A vs. Check. (Mt. Pleasant) Tie 5th of 20; 106% of Mean Avg., +11 Avg. bu/A vs. Check.

2017 CORN TREATMENT STUDY - ORGANIC - ILLINOIS

CODE	TREATMENT	IL			Avg.
		Seneca	Rep 1	Rep 2	
Treatment #2	Hard Chemistries		234.2	224.3	229.3
Treatment #5	1R		236.2	225.1	230.7
Treatment #3	OBT B1 + 1R		232.5	227.7	230.1
Treatment #9	0688869-B		229.3	230.1	229.7
Treatment #16	MALiquid2017		225.1	200.9	213.0
Treatment #18	TB		236.6	239.2	237.9
Treatment #11	ALB-03		217.9	219.6	218.8
Treatment #4	Fast 2 Grow		223.4	204.1	213.8
Treatment #12	ALB-02		197.1	213.0	205.1
Treatment #13	OBT B1		215.6	231.0	223.3
Treatment #15	OBT B2		231.1	222.6	226.9
Treatment #20	Buncha Bugs		226.7	229.5	228.1
Treatment #8	BioMantra Seed+		243.1	215.8	229.5
Treatment #19	RootShield Seed Treat		216.4	226.8	221.6
Treatment #10	ASCO II		229.1	223.4	226.3
Treatment #7	RC22017		213.7	231.9	222.8
Treatment #14	OBT B3		216.7	188.0	202.4
Treatment #6	Myco Seed Treat		234.1	233.4	233.8
Treatment #17	GSB		218.4	213.3	215.9
Treatment #1	UTC		210.9	236.4	223.7
MEAN					221.6
CV					4.6
LSD					21.5

SUMMARY:

SoilBiotics **Organic 1r – Seed Treatment** = 3rd of 20; 104% of Mean Avg., +9 Avg. bu/A vs. Check.

2017 CORN TREATMENT STUDY - ORGANIC - INDIANA				
CODE	TREATMENT	IN		
		Bourbon	Rep 1	Rep 2
				Avg.
Treatment #2	Hard Chemistries	259.0	239.3	249.2
Treatment #5	1R	210.0	216.8	213.4
Treatment #3	OBT B1 + 1R	225.5	190.2	207.9
Treatment #9	0688869-B	197.2	232.2	214.7
Treatment #16	MALiquid2017	198.1	193.6	195.9
Treatment #18	TB	209.2	223.8	216.5
Treatment #11	ALB-03	196.5	241.1	218.8
Treatment #4	Fast 2 Grow	221.5	225.5	223.5
Treatment #12	ALB-02	215.5	226.5	221.0
Treatment #13	OBT B1	210.3	208.7	209.5
Treatment #15	OBT B2	233.4	223.9	228.7
Treatment #20	Buncha Bugs	217.5	227.6	222.6
Treatment #8	BioMantra Seed+	221.8	222.4	222.1
Treatment #19	RootShield Seed Treat	207.2	216.2	211.7
Treatment #10	ASCO II	188.0	209.6	198.8
Treatment #7	RC22017	195.7	232.6	214.2
Treatment #14	OBT B3	212.0	219.1	215.6
Treatment #6	Myco Seed Treat	225.0	187.0	206.0
Treatment #17	GSB	202.8	207.1	205.0
Treatment #1	UTC	193.2	215.2	204.2
MEAN				213.3
CV				7.2
LSD				32.3

SUMMARY:

SoilBiotics **Organic 1r – Seed Treatment** = 12th of 20; 100% of Mean Avg., 100% Avg. bu/A vs. Check.

2017 CORN TREATMENT STUDY - ORGANIC - KENTUCKY

CODE	TREATMENT	KY			Avg.
		Columbia	Rep 1	Rep 2	
Treatment #2	Hard Chemistries		232.6	190.7	211.7
Treatment #5	1R		235.0	185.8	210.4
Treatment #3	OBT B1 + 1R		184.9	222.9	203.9
Treatment #9	0688869-B		229.0	187.1	208.1
Treatment #16	MALiquid2017		189.9	239.9	214.9
Treatment #18	TB		178.8	217.8	198.3
Treatment #11	ALB-03		209.1	206.9	208.0
Treatment #4	Fast 2 Grow		191.9	200.1	196.0
Treatment #12	ALB-02		242.1	203.2	222.7
Treatment #13	OBT B1		182.9	212.8	197.9
Treatment #15	OBT B2		181.4	181.2	181.3
Treatment #20	Buncha Bugs		200.9	179.9	190.4
Treatment #8	BioMantra Seed+		213.9	177.8	195.9
Treatment #19	RootShield Seed Treat		199.4	183.8	191.6
Treatment #10	ASCO II		190.4	207.1	198.8
Treatment #7	RC22017		199.9	156.3	178.1
Treatment #14	OBT B3		181.9	184.8	183.4
Treatment #6	Myco Seed Treat		179.2	179.6	179.4
Treatment #17	GSB		174.2	173.1	173.7
Treatment #1	UTC		154.5	183.9	169.2
MEAN					188.5
CV					13.6
LSD					55.7

SUMMARY:

SoilBiotics **Organic 1r – Seed Treatment** = 4th of 20; 112% of Mean Avg., +22 Avg. 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.

2017 CORN TREATMENT STUDY - ORGANIC - STATE AVERAGES			
CODE	TREATMENT	Replicated	Yield
		Average	% of Mean
Treatment #2	Hard Chemistries	225.2	106.9%
Treatment #5	1R	224.9	106.8%
Treatment #3	OBT B1 + 1R	220.0	104.5%
Treatment #9	0688869-B	219.1	104.0%
Treatment #16	MALiquid2017	218.2	103.6%
Treatment #18	TB	217.7	103.3%
Treatment #11	ALB-03	217.7	103.3%
Treatment #4	Fast 2 Grow	216.4	102.7%
Treatment #12	ALB-02	215.6	102.4%
Treatment #13	OBT B1	214.4	101.8%
Treatment #15	OBT B2	214.2	101.7%
Treatment #20	Buncha Bugs	213.9	101.6%
Treatment #8	BioMantra Seed+	212.2	100.8%
Treatment #19	RootShield Seed Treat	211.6	100.5%
Treatment #10	ASCO II	210.9	100.1%
Treatment #7	RC22017	210.2	99.8%
Treatment #14	OBT B3	209.7	99.6%
Treatment #6	Myco Seed Treat	207.2	98.4%
Treatment #17	GSB	206.3	97.9%
Treatment #1	UTC	201.3	95.6%
MEAN		210.6	
CV		7.2	
LSD		32.3	

FINAL SUMMARY: SoilBiotics **Organic 1r – Seed Treatment** placed 2nd overall of 20 seed treatments tested (19 organic), surpassed only by the seed company's primary Conventional seed treatment (Hard Chemistries), scoring 106.8% of Mean Avg., and a +24 Avg. bu/A vs. Untreated Check over the 4-state study.