

RESEARCH FOR RESULTS



2016 Seed Company Corn Trials

OVERVIEW: This is year 1 of a continuing study conducted by a major seed company utilizing various organic seed treatments on corn.
LOCATION: Five central U.S. states: IOWA, ILLINOIS, INDIANA, OHIO & TENNESSEE
PLOT: VARIOUS
HYBRID: ORGANIC
PLANTING DATE: Various – see state tables

2016 CORN TREATMENT STUDY - IOWA																		
TREATMENT	IA																	
	Bradgate			Marshalltown					Oelwein					Sheldon				
	Rep 1	Rep 2	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.
7 Treatment #7 Fungicide/ Insecticide	259.1	258.7	258.9	243.8	261.8	244.3	249.6	249.9	254.0	260.2	287.5	282.4	271.0	261.0	248.2	257.1	231.9	249.6
3 Treatment #3	263.4	250.6	257.0	250.7	226.4	255.2	253.7	246.5	272.8	230.2	270.2	266.9	260.0	243.7	271.4	258.2	252.0	256.3
2 Treatment #2	262.3	256.4	259.4	238.4	257.6	281.8	239.2	254.3	229.3	264.4	290.3	261.6	261.4	246.6	248.2	251.0	274.6	255.1
8 Treatment #8 SoilBiotics Organic 1R	241.7	254.1	247.9	271.9	259.4	266.9	274.5	268.2	205.3	250.5	274.0	250.2	245.0	258.6	246.6	263.1	243.8	253.0
4 Treatment #4	245.0	249.6	247.3	239.5	249.9	261.5	261.2	253.0	254.5	242.8	277.5	277.5	263.1	236.8	251.5	260.3	250.5	249.8
6 Treatment #6	259.8	252.2	256.0	219.0	262.9	226.1	255.5	240.9	256.8	257.3	258.8	281.6	263.6	251.3	242.3	254.1	251.3	249.8
5 Treatment #5	255.2	260.1	257.7	263.3	262.8	231.0	246.5	250.9	228.7	258.8	279.0	281.3	262.0	234.1	254.5	262.9	237.3	247.2
1 Treatment #1 Untreated Check	237.4	238.5	238.0	241.6	257.6	233.3	259.7	248.1	242.6	255.7	238.9	277.7	253.7	259.7	241.8	247.2	243.7	248.1
MEAN			252.8					251.5					260.0					251.1
CV			2.7					7.7					5.8					5.0
LSD			15.6					28.3					22.0					18.5

PLANTING DATES: Oelwein – May 4; Marshalltown – May 5; Bradgate – May 17; Sheldon – May 17.
 SoilBiotics Organic 1r – Seed Treatment = 4th of 8; 100% of Mean Avg., +6.6 Avg. bu/A vs. Check.

2016 CORN TREATMENT STUDY - ILLINOIS																
TREATMENT	IL															
	Bloomington					Champaign					El Paso					
	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	
7	Treatment #7 Fungicide/ Insecticide	246.1	244.4	249.1	231.6	242.8	213.6	224.8	223.4	219.5	220.3	243.2	220.2	253.5	235.7	238.2
3	Treatment #3	205.7	226.9	222.4	235.9	222.7	219.9	227.1	226.5	227.1	225.2	218.8	243.7	204.6	268.4	233.9
2	Treatment #2	218.1	223.4	220.2	261.2	230.7	222.3	202.5	232.2	213.3	217.6	205.4	223.9	233.0	209.3	217.9
8	Treatment #8 SoilBiotics Organic 1R	208.5	207.9	203.4	206.6	206.6	222.8	218.2	228.9	233.0	225.7	217.7	205.2	217.5	256.1	224.1
4	Treatment #4	227.0	219.1	202.2	212.4	215.2	213.9	240.3	215.3	217.3	221.7	261.0	211.7	198.7		223.8
6	Treatment #6	217.0	231.9			224.5	212.0	218.9	233.4	211.4	218.9	237.7	215.7	240.1	253.7	236.8
5	Treatment #5	234.4	212.8	177.7	211.4	209.1	199.4	230.4	220.0	214.1	216.0	255.4	242.6	210.4	249.7	239.5
1	Treatment #1 Untreated Check	178.1	218.3	186.4	200.3	195.8	204.7	214.6	250.4	213.0	220.7	234.6	246.4	227.9	241.4	237.6
	MEAN					218.4					220.8					231.5
	CV					7.5					5.0					10.4
	LSD					23.9					15.9					35.4

Planting Dates: Bloomington – May 7; Champaign – May 16; El Paso – May 21.
SoilBiotics Organic 1r – Seed Treatment = 7th of 8; 98% of Mean Avg., +0.4 Avg. bu/A vs. Check.

2016 CORN TREATMENT STUDY - INDIANA																					
TREATMENT	IN																				
	Frankfort					Gas City					Lafayette					Remington					
	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	
7	Treatment #7 Fungicide/ Insecticide	231.8	208.1	208.1	214.4	215.6	196.9	197.1	217.6		203.9	228.8	230.0	273.2	227.3	239.8	233.2	260.7	245.8	236.5	244.1
3	Treatment #3	234.3	230.2	210.2	211.4	221.5	208.7	212.8	213.9	227.1	215.6	233.0	235.1	244.9	213.6	231.7	261.7	256.3	230.2	248.8	249.3
2	Treatment #2	222.8	237.8	231.4	200.9	223.2	199.5	198.1	176.7	218.5	198.2	215.2	235.8	231.6	231.8	228.6	260.9	263.6	252.5	240.4	254.4
8	Treatment #8 SoilBiotics Organic 1R	228.1	217.3	190.4		211.9	204.0	229.0	208.9	197.0	209.7	230.2	228.6	209.3	219.5	221.9	249.0	276.0	260.7	243.0	257.2
4	Treatment #4	218.4	232.0		207.6	219.3	212.5	173.1	214.6	191.4	197.9	255.0	252.3	234.6	212.4	238.6	271.4	271.9	255.6	236.1	258.8
6	Treatment #6	211.7	224.7	188.0	242.5	216.7	198.3	209.3	199.1	198.8	201.4	251.1	235.2	216.8	229.4	233.1	240.8	262.5	247.2	253.6	251.0
5	Treatment #5	195.4	194.7	210.7	216.3	204.3	204.5		217.0	191.1	204.2	225.9	209.8	234.4	211.9	220.5	239.9	245.5	245.3	259.8	247.6
1	Treatment #1 Untreated Check	227.4	237.9	208.4	212.6	221.6	222.3	206.0	224.5	208.2	215.3	209.7	221.6	244.3	218.1	223.4	235.7	264.4	259.7	248.4	252.1
	MEAN					216.8					205.8					229.7					251.8
	CV					7.0					8.2					8.1					5.3
	LSD					22.1					24.6					27.2					19.6

Planting Dates: Atlanta – March 23; Lafayette – April 30; Remington – May 16; Gas City – May 19; Frankfort – May 27.

SoilBiotics Organic 1r – Seed Treatment = tied 5th of 8; 99% of Mean Avg., -3 Avg. bu/A vs. Check.

2016 CORN TREATMENT STUDY - OHIO											
TREATMENT	OH										
	Arcanum					Washington Court House					
	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	
7	Treatment #7 Fungicide/ Insecticide	253.1	256.1	255.6	256.7	255.4	263.1	241.2	235.1	239.5	244.7
3	Treatment #3	244.7	266.9	244.2	249.3	251.3	241.2	225.3	222.1	218.3	226.7
2	Treatment #2	248.3	249.7	244.8	234.7	244.4	237.2	229.6	249.3	225.0	235.3
8	Treatment #8 SoilBiotics Organic 1R	250.3	253.0	245.8	260.1	252.3	239.0	212.3	223.9	231.3	226.6
4	Treatment #4	243.9	253.5	227.3	244.1	242.2	242.3	202.5	227.6	231.4	226.0
6	Treatment #6	230.9	241.1	235.3	268.0	243.8	222.5	235.5	198.7	182.8	209.9
5	Treatment #5	253.8	247.8	261.5	240.9	251.0	198.3	236.4	217.9	252.0	226.2
1	Treatment #1 Untreated Check	243.8	238.6	235.4	243.0	240.2	237.8	210.0	221.7	186.3	214.0
	MEAN					247.6					226.2
	CV					4.5					8.6
	LSD					16.1					33.7

Planting Dates: Washington Court House – April 25; Arcanum – April 26.

SoilBiotics Organic 1r – Seed Treatment = tied 2nd of 8; 106% of Mean Avg., +13 Avg. bu/A vs. Check.

2016 CORN TREATMENT STUDY - TENNESSEE						
TREATMENT	TN Union City					
	Rep 1	Rep 2	Rep 3	Rep 4	Avg.	
7 Treatment #7 Fungicide/ Insecticide	197.7	231.0	222.9	212.6	216.1	
3 Treatment #3	201.2	188.3	190.8	239.5	205.0	
2 Treatment #2	211.8	216.2	213.0	185.7	206.7	
8 Treatment #8 SoilBiotics Organic 1R	229.5	198.3	236.6	213.3	219.4	
4 Treatment #4	235.3	209.6	194.2	191.4	207.6	
6 Treatment #6	185.0	189.0	181.1	223.0	194.5	
5 Treatment #5	180.0	209.6	205.7	203.9	199.8	
1 Treatment #1 Untreated Check	192.3	206.1	200.0	202.2	200.2	
MEAN					206.2	
CV					8.7	
LSD					26.3	

Planting Dates: Union city – April 26.

SoilBiotics Organic 1r – Seed Treatment = 1st of 8; 106% of Mean Avg., +13.2 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 of their standard tillage, fertilizer and other input programs, so results are more indicative of “real world” farming.

2016 CORN TREATMENT STUDY - STATE AVERAGE FINALS				
TREATMENT	Replicated Average	Yield % of Mean		
7 Treatment #7 Fungicide/ Insecticide	239.3	102.5%		
3 Treatment #3	235.9	101.0%		
2 Treatment #2	234.8	100.5%		
8 Treatment #8 SoilBiotics Organic 1R	233.5	100.0%		
4 Treatment #4	233.2	99.8%		
6 Treatment #6	231.5	99.1%		
5 Treatment #5	231.1	99.0%		
1 Treatment #1 Untreated Check	229.2	98.1%		
MEAN	233.6			

SoilBiotics Organic 1r – Seed Treatment = 4th of 8; 100% of Mean Avg., +4.3 Avg. bu/A vs. Check over 5 state study.