

FIELD EXPERIMENT HISTORY

Title: Corn - Soybean Response to Tillage and Rotation
Experiment: 19Systems **Trial ID:** 3684 **Year:** 2014
Personnel: J.G. Lauer, T. Diallo and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS:336 **Previous Crop:** See factors **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/1 /14 **pH:** 6.4 **OM (%)** 2.8 **P (ppm)** 26 **K (ppm)** 131

Plot Management

Tillage Operations: 1-No-Till & 2-Conventional Tillage

Fertilizer:	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Preplant :	N/A	N/A	N/A
Starter :	N/A	N/A	N/A
Post plant :	28-0-0	160 & 210	6 /12/13
Manure:	N/A	N/A	N/A

Herbicide: Roundup: 22 oz/A 5/8/14 Dual II Mag: 24 oz/A 5/8/14 Roundup: 28 oz/A 6/24/14	Insecticide: None Hybrid: Corn 1) RR: G2: 5H-399(RR)+ Insecticide 2) SS: Dekalb DKC53-78RIB(GENSS) Soybean : Pioneer 92Y30
--	--

Irrigation: None Planting Date: C: 6/23/14 S: 6/5/14 Target Plant Density: See Factors Harvest Date: C: 11/3/14 S: 11/2/14 Notes:	Planting Depth: C:1.5" S: 1" Row Width: 30" Planting Method: JD1700 planter with RTK Harvest Method: C: Kincaid plot combine S: Almaco plot combine #2
--	---

Experimental Design

Design: FracRep: split-split-plot	Replications: 1
Plot Size Seeded: MP: 10' x 35'	Experiment Size: 1.2
Harvest Plot Size: 5' x 31'	Harvest Plant Density: See Factors

Factors/Treatments:

<u>Tillage:</u>	<u>Rotation:</u>	<u>Nitrogen Rate:</u>
1) No-Till	1) CC	1-160 lbs/A
2) Conventional	2) CS	2-210 lbs/A

<u>Fungicide:</u>	<u>Plant Density:</u>	<u>Genotype:</u>
1) UTC	1-32000 Plants/A	1-G2 5H-399(RR)
2) Priaxor 8.0 oz/A	2-42000 Plants/A	2-Dekalb DKC53-78RIB(GENSS)

Results: Table 1419-01

**Table: 1419-01 . Multi-factor effects for continuous and Rotated corn.
Arlington, WI - 2014.**

Tillage	Rotation	Genotype	Plant	N	Fungicide	Grain	Grain	Test	Lodged			Harvest	*AGI
			Density	rate		yield	moisture	weight	Total	Stalk	Root	density	\$3.67/bu
			plants/A	lbs/A		bu/A	%	lbs	%	%	%	plants/A	\$
					Priaxor	206	20.6	54.0	0.6	0.3	0.3	35594	689
					UTC	199	20.6	54.4	0.1	0.0	0.1	35748	664
				160		198	21.0	54.0	0.5	0.1	0.3	35748	662
				160	Priaxor	204	20.9	53.8	0.9	0.3	0.6	35813	681
				160	UTC	192	21.0	54.3	0.1	0.0	0.1	35683	642
				210		206	20.3	54.4	0.2	0.1	0.1	35594	691
				210	Priaxor	208	20.3	54.3	0.3	0.2	0.1	35376	696
				210	UTC	205	20.2	54.5	0.1	0.0	0.1	35813	685
			34K			198	20.7	54.4	0.1	0.1	0.0	32560	662
			34K		Priaxor	206	20.6	54.3	0.2	0.2	0.0	32688	686
			34K		UTC	191	20.9	54.5	0.0	0.0	0.0	32433	638
			34K	160		192	21.4	53.9	0.0	0.0	0.0	32496	640
			34K	210		204	20.1	54.8	0.2	0.2	0.0	32625	684
			42K			207	20.5	54.0	0.6	0.1	0.5	38782	690
			42K		Priaxor	207	20.7	53.8	0.9	0.3	0.6	38501	691
			42K		UTC	206	20.4	54.3	0.3	0.0	0.3	39063	689
			42K	160		204	20.5	54.2	1.0	0.3	0.7	39000	683
			42K	210		209	20.5	53.9	0.2	0.0	0.2	38563	697
		G2 5H-399 (RR)				201	20.9	55.1	0.6	0.1	0.4	35373	671
		G2 5H-399 (RR)			Priaxor	205	20.9	55.0	0.9	0.3	0.6	35063	684
		G2 5H-399 (RR)			UTC	197	20.9	55.3	0.3	0.0	0.3	35683	658
		G2 5H-399 (RR)		160		194	21.4	54.9	1.0	0.3	0.7	35433	644
		G2 5H-399 (RR)		210		208	20.3	55.4	0.1	0.0	0.1	35313	697
		G2 5H-399 (RR) 34K				195	20.8	55.4	0.0	0.0	0.0	32558	650
		G2 5H-399 (RR) 42K				207	20.9	54.9	1.1	0.3	0.9	38188	692
		DKC53-78 (SS)				204	20.4	53.3	0.1	0.1	0.0	35969	682
		DKC53-78 (SS)			Priaxor	207	20.4	53.1	0.3	0.2	0.1	36126	693
		DKC53-78 (SS)			UTC	200	20.4	53.5	0.0	0.0	0.0	35813	670
		DKC53-78 (SS)		160		203	20.5	53.2	0.0	0.0	0.0	36063	679
		DKC53-78 (SS)		210		205	20.3	53.4	0.3	0.2	0.1	35876	684
		DKC53-78 (SS) 34K				202	20.6	53.3	0.2	0.2	0.0	32563	674
		DKC53-78 (SS) 42K				206	20.2	53.2	0.1	0.0	0.1	39376	689
		CC				191	21.5	53.6	0.7	0.3	0.4	35060	636
		CC			Priaxor	194	21.1	53.6	1.1	0.5	0.6	34563	644
		CC			UTC	189	21.9	53.7	0.3	0.0	0.3	35558	627

continue

Table: 1419-01 . Multi-factor effects for continuous and Rotated corn.(continued) **Arlington, WI - 2014.**

Tillage	Rotation	Genotype	Plant	N	Fungicide	Grain	Grain	Test	Lodged			Harvest	*AGI
			Density	rate		yield	moisture	weight	Total	Stalk	Root	density	\$3.67/bu
			plants/A	lbs/A				lbs	%	%	%	plants/A	\$
	CC			160		184	21.9	53.2	1.0	0.3	0.7	35121	611
	CC			210		198	21.1	54.1	0.4	0.2	0.1	35000	660
	CC		34K			188	21.5	53.9	0.2	0.2	0.0	32183	624
	CC		42K			195	21.5	53.4	1.1	0.3	0.9	37938	648
	CC	G2 5H-399 (RR)				190	22.0	54.6	1.1	0.3	0.8	33558	629
	CC	DKC53-78 (SS)				193	21.0	52.6	0.2	0.2	0.0	36563	643
	CS					214	19.8	54.8	0.0	0.0	0.0	36282	717
	CS				Priaxor	219	20.1	54.5	0.1	0.0	0.1	36626	733
	CS				UTC	208	19.4	55.1	0.0	0.0	0.0	35938	700
	CS			160		213	20.1	54.9	0.0	0.0	0.0	36375	712
	CS			210		215	19.5	54.7	0.1	0.0	0.1	36188	721
	CS		34K			209	20.0	54.8	0.0	0.0	0.0	32938	700
	CS		42K			218	19.5	54.7	0.1	0.0	0.1	39626	733
	CS	G2 5H-399 (RR)				213	19.8	55.6	0.0	0.0	0.0	37188	713
	CS	DKC53-78 (SS)				215	19.8	53.9	0.1	0.0	0.1	35376	720
CT						210	19.8	54.7	0.2	0.0	0.2	37227	704
CT					Priaxor	214	20.0	54.4	0.1	0.0	0.0	37145	715
CT					UTC	206	19.6	55.0	0.3	0.0	0.3	37308	694
CT				160		207	20.3	54.6	0.2	0.0	0.1	37371	692
CT				210		213	19.4	54.8	0.2	0.0	0.2	37082	717
CT			34K			204	20.0	54.7	0.0	0.0	0.0	33621	683
CT			42K			216	19.6	54.7	0.3	0.0	0.3	40832	725
CT		G2 5H-399 (RR)				208	19.9	55.6	0.3	0.0	0.3	37558	696
CT		DKC53-78 (SS)				212	19.8	53.8	0.1	0.0	0.0	36895	713
CT	CC					201	20.3	54.4	0.3	0.0	0.3	37621	671
CT	CS					219	19.3	55.0	0.1	0.0	0.0	36832	737
NT						195	21.5	53.7	0.5	0.2	0.3	34115	648
NT					Priaxor	199	21.2	53.6	1.1	0.5	0.6	34043	662
NT					UTC	191	21.7	53.8	0.0	0.0	0.0	34188	634
NT				160		190	21.7	53.5	0.8	0.3	0.5	34125	631
NT				210		200	21.2	53.9	0.2	0.2	0.0	34106	665
NT			34K			193	21.5	54.0	0.2	0.2	0.0	31500	640
NT			42K			197	21.4	53.4	0.9	0.3	0.6	36731	656
NT		G2 5H-399 (RR)				195	21.9	54.7	0.8	0.3	0.5	33188	646
NT		DKC53-78 (SS)				195	21.0	52.7	0.2	0.2	0.0	35043	650
NT	CC					182	22.7	52.8	1.0	0.5	0.5	32500	600
NT	CS					208	20.2	54.6	0.0	0.0	0.0	35731	696
Mean						202	20.6	54.2	0.3	0.1	0.2	35671	676

continue

Table: 1419-01 . Multi-factor effects for continuous and Rotated corn.(continued) **Arlington, WI - 2014.**

Tillage Rotation	Genotype	Plant	N	Fungicide	Grain	Grain	Test	Lodged			Harvest	*AGI	
		Density	rate		yield	moisture	weight	Total	Stalk	Root	density	\$3.67/bu	
		plants/A	lbs/A			bu/A	%	lbs	%	%	%	plants/A	\$
Mean					202	20.6	54.2	0.3	0.1	0.2	35671	676	
Probability(%)													
Fungicide					9.0	97.3	25.5	28.4	12.4	49.0	86.9	10.3	
Genotype					52.7	35.0	0.0	29.8	82.7	15.0	52.5	47.6	
Genotype*Fungicide					91.5	97.1	99.6	70.0	87.8	62.4	62.2	93.6	
Genotype*NRate					14.7	42.8	66.2	17.7	11.4	27.5	97.2	13.4	
Genotype*PD					33.4	59.4	62.7	11.1	15.4	11.9	53.3	38.8	
NRate					7.6	17.1	28.2	49.0	82.7	36.0	86.9	6.0	
NRate*Fungicide					35.1	80.4	65.5	46.4	87.8	31.0	76.5	35.1	
PD					6.6	66.2	31.6	20.3	79.9	7.8	0.0	6.6	
PD*Fungicide					14.3	54.4	60.7	63.0	75.4	58.7	66.7	13.9	
PD*NRate					41.0	18.4	7.5	21.0	15.4	29.8	76.5	33.3	
Rotation					0.0	0.1	0.1	12.2	13.3	15.0	19.5	0.0	
Rotation*Fungicide					47.1	14.7	52.7	37.1	15.4	62.4	37.6	58.2	
Rotation*Genotype					90.9	33.5	65.6	23.4	75.4	10.8	1.4	83.4	
Rotation*NRate					19.5	79.4	8.8	39.8	75.4	27.5	97.2	20.6	
Rotation*PD					84.8	55.2	52.1	27.4	87.8	11.9	62.2	76.1	
Tillage					0.1	0.1	0.2	38.7	16.7	63.5	0.1	0.0	
Tillage*Fungicide					89.0	42.7	42.1	9.6	12.4	11.0	99.2	80.6	
Tillage*Genotype					63.5	42.7	74.3	66.4	82.7	59.9	18.2	70.0	
Tillage*NRate					73.1	71.0	71.2	43.2	82.7	29.0	88.6	78.8	
Tillage*PD					40.2	79.6	33.7	65.7	79.9	60.3	29.2	38.3	
Tillage*Rotation					41.3	16.2	5.7	34.3	13.3	59.9	3.6	34.3	
LSD(0.10)													
Fungicide					7	NS	NS	NS	NS	NS	NS	NS	
Genotype					NS	NS	0.5	NS	NS	NS	NS	NS	
Genotype*Fungicide					NS	NS	NS	NS	NS	NS	NS	NS	
Genotype*NRate					NS	NS	NS	NS	NS	NS	NS	NS	
Genotype*PD					NS	NS	NS	NS	NS	NS	NS	NS	
NRate					7	NS	NS	NS	NS	NS	NS	25	
NRate*Fungicide					NS	NS	NS	NS	NS	NS	NS	36	
PD					7	NS	NS	NS	NS	NS	1559	25	
PD*Fungicide					NS	NS	NS	NS	NS	NS	NS	NS	
PD*NRate					NS	NS	0.7	NS	NS	NS	NS	NS	
Rotation					7	0.8	0.5	NS	NS	NS	NS	25	
Rotation*Fungicide					NS	NS	NS	NS	NS	NS	NS	NS	
Rotation*Genotype					NS	NS	NS	NS	NS	NS	2214	NS	
Rotation*NRate					NS	NS	0.7	NS	NS	NS	NS	NS	
Rotation*PD					NS	NS	0.7	NS	NS	NS	NS	NS	
Tillage					7	0.8	0.5	NS	NS	NS	1530	25	
Tillage*Fungicide					NS	NS	NS	0.9	NS	NS	NS	NS	
Tillage*Genotype					NS	NS	NS	NS	NS	NS	NS	NS	
Tillage*NRate					NS	NS	NS	NS	NS	NS	NS	NS	
Tillage*PD					NS	NS	NS	NS	NS	NS	NS	NS	
Tillage*Rotation					NS	NS	0.7	NS	NS	NS	2191	NS	

*AGI: Adjusted Gross Income

FIELD EXPERIMENT HISTORY

Title: Multi-factor effects for continuous corn
Experiment: 19Systems **Trial ID:** 5795 **Year:** 2014
Personnel: J.G. Lauer, T. Diallo and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS336 **Previous Crop:** See factors **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/1 /14 **pH:** 6.4 **OM (%)** 2.8 **P (ppm)** 26 **K (ppm)** 131

Plot Management

Tillage Operations: 1-No-Till & 2-Conventional Tillage

Fertilizer:	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Preplant :	N/A	N/A	N/A
Starter :	N/A	N/A	N/A
Post plant :	28-0-0	160 & 210	6 /12/13
Manure:	N/A	N/A	N/A

Herbicide: Roundup: 22 oz/A 5/8/14
Dual II Mag: 24 oz/A 5/8/14
Roundup: 28 oz/A 6/24/14

Insecticide: None
Hybrid: C: (Must be RR)
1) RR: G2: 5H-399(RR)+ Insecticide
2) SS: Dekalb DKC53-78RIB(GENSS)

Irrigation: None
Planting Date: C: 6/23/14

Target Plant Density: See Factors
Harvest Date: C: 11/3/14
Notes: No Liebig Mix used.

Planting Depth:	C:1.5" S: 1"
Row Width:	30"
Planting Method:	JD1700 planter with RTK
Harvest Method:	C: Kincaid plot combine S: Almaco plot combine #2

Experimental Design

Design: FracRep: split-split-plot **Replications:** 1
Plot Size Seeded: MP: 10' x 35' **Experiment Size:** 0.5 Ac
Harvest Plot Size: 5' x 31' **Harvest Plant Density:** See Factors

Factors/Treatments:

<u>Tillage:</u>	<u>Fungicide:</u>	<u>Nitrogen Rate:</u>
Tillage:	1) UTC	1- 160 lbs/A
1) No-Till	2) Priaxor 8.0 oz/A	2- 210 lbs/A
2) Conventional		

<u>Liebig's Mix:</u>	<u>Plant Density:</u>	<u>Genotype:</u>
1) UTC	1-32000 Plants/A	1-G2 5H-399(RR)
2) 0 lb/A	2-42000 Plants/A	2-Dekalb DKC53-78RIB(GENSS)

Results: Table 1419-02

**Table: 1419-02 . Multi-factor effects for continuous corn.
Arlington, WI - 2014**

Tillage	Genotype	Plant Density plants/A	N rate lbs/A	*Fertilizer		Grain yield bu/A	Grain moisture %	Test weight lbs	Lodged			Harvest density plants/A	AGI \$3.67/bu \$	
				Liebig Mix	Fungicide				Total	Stalk	Root			
						Priaxor	190	21.7	54.9	0.2	0.0	0.2	35260	630
						UTC	193	20.5	54.6	0.4	0.2	0.2	35490	646
						LM	195	21.3	55.2	0.4	0.2	0.2	35227	647
						LM Priaxor	196	21.8	56.2	0.0	0.0	0.0	36487	649
						LM UTC	193	20.8	54.2	0.7	0.4	0.4	33966	644
						UTC	189	21.0	54.2	0.2	0.0	0.2	35523	629
						UTC Priaxor	184	21.7	53.5	0.4	0.0	0.4	34034	612
						UTC UTC	193	20.2	54.9	0.0	0.0	0.0	37013	647
		160					188	21.2	55.0	0.4	0.2	0.2	35023	627
		160				Priaxor	186	22.2	55.2	0.0	0.0	0.0	36159	615
		160				UTC	191	20.2	54.7	0.7	0.4	0.4	33888	638
		160	LM				191	21.4	56.0	0.7	0.3	0.3	34875	635
		160	UTC				186	21.0	53.9	0.1	0.0	0.1	35172	618
		210					195	21.0	54.5	0.2	0.0	0.2	35727	650
		210				Priaxor	194	21.2	54.5	0.4	0.0	0.4	34362	646
		210				UTC	196	20.8	54.4	0.0	0.0	0.0	37091	653
		210	LM				198	21.2	54.4	0.1	0.0	0.1	35578	658
		210	UTC				192	20.9	54.5	0.4	0.0	0.4	35875	641
		34K					194	21.1	55.3	0.0	0.0	0.0	32711	645
		34K				Priaxor	191	21.5	55.9	0.0	0.0	0.0	32909	636
		34K				UTC	196	20.7	54.8	0.0	0.0	0.0	32513	654
		34K	LM				196	20.9	56.6	0.0	0.0	0.0	32875	655
		34K	UTC				191	21.2	54.0	0.1	0.0	0.1	32547	636
		34K	160				190	21.1	55.9	0.1	0.0	0.1	32047	632
		34K	210				198	21.1	54.7	0.0	0.0	0.0	33375	659
		42K					190	21.2	54.1	0.6	0.2	0.4	38039	631
		42K				Priaxor	189	22.0	53.9	0.4	0.0	0.4	37612	625
		42K				UTC	191	20.3	54.3	0.7	0.4	0.4	38466	637
		42K	LM				193	21.6	53.8	0.8	0.4	0.4	37578	639
		42K	UTC				187	20.7	54.4	0.4	0.0	0.4	38500	623
		42K	160				187	21.4	54.0	0.7	0.3	0.3	38000	621
		42K	210				192	21.0	54.2	0.5	0.0	0.5	38078	641
	G2 5H-399 (RR)						186	21.5	55.9	0.6	0.2	0.4	34523	619
	G2 5H-399 (RR)					Priaxor	187	22.0	56.3	0.4	0.0	0.4	33534	620
	G2 5H-399 (RR)					UTC	186	21.0	55.5	0.7	0.4	0.4	35513	619

continue

Table: 1419-02 . Multi-factor effects for continuous corn.(continued) **Arlington, WI - 2014**

Tillage	Genotype	Plant Density plants/A	N rate lbs/A	*Fertilizer		Grain yield bu/A	Grain moisture %	Test weight lbs	Lodged			Harvest density plants/A	AGI \$3.67/bu \$
				Liebig Mix	Fungicide				Total	Stalk	Root		
	G2 5H-399 (RR)			LM		184	21.8	56.9	0.7	0.3	0.3	34250	609
	G2 5H-399 (RR)			UTC		189	21.1	54.9	0.5	0.0	0.5	34797	629
	G2 5H-399 (RR)		160			183	21.8	56.6	0.8	0.4	0.4	34422	606
	G2 5H-399 (RR)		210			190	21.1	55.2	0.4	0.0	0.4	34625	632
	G2 5H-399 (RR)	34K				188	21.6	56.9	0.1	0.0	0.1	31672	623
	G2 5H-399 (RR)	42K				185	21.3	54.9	1.1	0.3	0.8	37375	616
	DKC53-78 (SS)					197	20.8	53.5	0.0	0.0	0.0	36227	657
	DKC53-78 (SS)				Priaxor	193	21.5	53.5	0.0	0.0	0.0	36987	641
	DKC53-78 (SS)				UTC	201	20.1	53.6	0.0	0.0	0.0	35466	673
	DKC53-78 (SS)			LM		205	20.8	53.6	0.1	0.0	0.1	36203	684
	DKC53-78 (SS)			UTC		189	20.8	53.5	0.0	0.0	0.0	36250	629
	DKC53-78 (SS)		160			194	20.6	53.3	0.0	0.0	0.0	35625	647
	DKC53-78 (SS)		210			200	20.9	53.7	0.1	0.0	0.1	36828	667
	DKC53-78 (SS)	34K				200	20.6	53.7	0.0	0.0	0.0	33750	667
	DKC53-78 (SS)	42K				194	21.0	53.3	0.1	0.0	0.1	38703	646
CT						194	20.2	55.5	0.4	0.2	0.2	36073	649
CT					Priaxor	192	21.0	56.0	0.1	0.0	0.1	36146	640
CT					UTC	196	19.4	55.0	0.7	0.3	0.3	36000	657
CT				LM		199	20.5	56.6	0.7	0.4	0.4	36112	664
CT				UTC		189	19.9	54.4	0.0	0.0	0.0	36034	633
CT			160			189	20.4	56.4	0.7	0.4	0.4	36284	632
CT			210			198	20.0	54.6	0.0	0.0	0.0	35862	665
CT		34K				195	20.2	56.3	0.0	0.0	0.0	33409	653
CT		42K				193	20.2	54.7	0.7	0.4	0.4	38737	645
CT	G2 5H-399 (RR)					186	20.4	57.0	0.7	0.4	0.4	35409	622
CT	DKC53-78 (SS)					202	20.0	54.0	0.0	0.0	0.0	36737	675
NT						190	22.0	53.9	0.2	0.0	0.2	34677	627
NT					Priaxor	188	22.4	53.7	0.4	0.0	0.4	34375	621
NT					UTC	191	21.6	54.1	0.1	0.0	0.1	34979	634
NT				LM		190	22.0	53.8	0.0	0.0	0.0	34341	630
NT				UTC		189	22.0	54.0	0.4	0.0	0.4	35013	625
NT			160			187	22.0	53.5	0.0	0.0	0.0	33763	621
NT			210			192	22.1	54.3	0.4	0.0	0.4	35591	634
NT		34K				192	21.9	54.3	0.0	0.0	0.0	32013	637
NT		42K				187	22.2	53.5	0.4	0.0	0.4	37341	617
NT	G2 5H-399 (RR)					187	22.5	54.8	0.4	0.0	0.4	33638	616
NT	DKC53-78 (SS)					192	21.6	53.0	0.0	0.0	0.0	35716	639
Mean						192	21.1	54.7	0.3	0.1	0.2	35375	638

continue

Table: 1419-02 . Multi-factor effects for continuous corn.(continued) **Arlington, WI - 2014**

Tillage	Genotype	Plant	N	*Fertilizer		Grain	Grain	Test	Lodged			Harvest	AGI
		Density	rate	Liebig	Mix	Fungicide	yield	moisture	weight	Total	Stalk	Root	density
		plants/A	lbs/A			bu/A	%	lbs	%	%	%	plants/A	\$
Mean						192	21.1	54.7	0.3	0.1	0.2	35375	638
Probability(%)													
Fungicide						34.6	5.8	72.8	63.7	16.5	89.2	81.4	19.0
Genotype						0.7	27.8	1.6	9.5	17.5	8.9	10.0	0.4
Genotype*Fungicide						20.8	75.3	65.2	65.3	18.5	89.7	9.8	18.5
Genotype*LiebigMix						0.7	58.3	33.1	86.7	26.6	67.6	80.6	0.5
Genotype*NRate						86.6	45.7	32.0	46.6	12.5	87.3	62.5	76.9
Genotype*PD						65.4	59.6	40.4	16.8	26.6	16.0	71.3	56.4
LiebigMix						12.1	62.0	28.4	64.5	17.5	89.5	76.6	14.3
LiebigMix*Fungicide						11.9	72.0	8.1	10.2	18.5	9.6	1.3	10.6
NRate						6.7	76.1	59.1	64.5	17.5	89.5	48.3	6.1
NRate*Fungicide						65.7	20.8	77.1	10.2	18.5	9.6	2.3	48.8
NRate*LiebigMix						99.5	95.3	24.2	16.8	26.6	16.0	100.0	99.9
PD						24.7	87.8	19.8	9.5	17.5	8.9	0.0	23.5
PD*Fungicide						70.8	50.8	40.3	65.3	18.5	89.7	54.1	81.7
PD*LiebigMix						94.0	36.0	11.2	46.6	12.5	87.3	54.1	91.0
PD*NRate						71.1	74.3	45.1	86.7	26.6	67.6	54.1	74.8
Tillage						22.0	0.6	8.5	63.7	16.5	89.2	16.2	7.5
Tillage*Fungicide						94.9	52.8	42.4	16.8	26.6	16.0	71.3	84.4
Tillage*Genotype						17.9	67.8	55.3	65.3	18.5	89.7	71.3	20.4
Tillage*LiebigMix						25.4	62.3	20.2	10.2	18.5	9.6	71.3	29.6
Tillage*NRate						49.7	67.5	16.3	10.2	18.5	9.6	27.7	42.9
Tillage*PD						63.7	81.8	65.6	65.3	18.5	89.7	100.0	62.3
LSD(0.10)													
Fungicide						NS	1.0	NS	NS	NS	NS	NS	NS
Genotype						6	NS	1.6	0.5	NS	0.4	1701	20
Genotype*Fungicide						NS	NS	NS	NS	NS	NS	NS	NS
Genotype*LiebigMix						9	NS	NS	NS	NS	NS	NS	28
Genotype*NRate						NS	NS	NS	NS	NS	NS	NS	NS
Genotype*PD						NS	NS	NS	NS	NS	NS	NS	NS
LiebigMix						NS	NS	NS	NS	NS	NS	NS	NS
LiebigMix*Fungicide						NS	NS	2.2	NS	NS	0.5	2406	NS
NRate						6	NS	NS	NS	NS	0.4	1701	20
NRate*Fungicide						NS	NS	NS	NS	NS	0.5	2406	NS
NRate*LiebigMix						NS	NS	NS	NS	NS	0.5	2423	NS
PD						NS	NS	NS	0.5	NS	0.4	1701	NS
PD*Fungicide						NS	NS	NS	NS	NS	NS	NS	NS
PD*LiebigMix						NS	NS	NS	NS	NS	NS	NS	NS
PD*NRate						NS	NS	NS	NS	NS	NS	NS	NS
Tillage						NS	1.0	1.5	NS	NS	NS	NS	19
Tillage*Fungicide						NS	NS	NS	NS	NS	NS	NS	NS
Tillage*Genotype						NS	NS	NS	NS	NS	NS	NS	NS
Tillage*LiebigMix						NS	NS	NS	NS	NS	0.5	NS	NS
Tillage*NRate						NS	NS	NS	NS	NS	0.5	NS	NS
Tillage*PD						NS	NS	NS	NS	NS	NS	NS	NS

* Liebig Mix was used in 2012.

*AGI: Adjusted Gross Income