

FIELD EXPERIMENT HISTORY

Title: Corn and Soybean Rotation Study **Est.1983**
Experiment: 09CS **Trial ID 3192** **Year: 2008**
Personnel: J. G. Lauer, J.M. Gaska, K. D. Kohn and T. H. Diallo
Location: Arlington, WI **County: Columbia**
Supported By: HATCH

Site Information

Field: 334W **Previous Crop:** Corn/Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/20/08 **pH:** 6.1 **OM (%)** 3.7 **P (ppm)** 13 **K (ppm)** 126

Plot Management

Tillage Operations: See Factors

		<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:	Preplant :	N/A	N/A	N/A
	Starter :	N/A	N/A	N/A
	Post plant :	28-0-0	210	6 /1 /08
	Manure:	N/A	N/A	
Herbicide:	Honcho plus 24 oz/A 18-Jun-08		Insecticide:	Force 3G 4.4 lbs/A, 5/5/08
	Dual II Mag 24 oz/A 30-Apr		Rodenticide:	Zinc phosphate: 5lbs/A, 5/5/08
	Liberty 32 oz/A 30-Apr-08			
Irrigation:	None		Hybrid:	See Factors
Planting Date:	Corn: 5/5/08	Planting Depth:	C: 1.5"	Row Width: 30"
	Soybean: 5/6/08		S: 1"	
Target Plant Density:	Corn: 32500		Planting Method:	Kinze 2000 Interplant planter
	Soybean: 150000			
Harvest Date:	Corn: 10/14/08		Harvest Method:	C: Kincaid plot combine
	Soybean: 10/22/08			S: Almaco plot combine #2

Notes:

Experimental Design

Design: RCB split-split plot **Replications:** 4
Plot Size Seeded 10' x35' **Experiment Size:** 2.7 acres
Harvest Plot Size: Corn: 5' x 31'

Factors/Treatments:

<u>Tillage</u>	<u>Rotation</u>	<u>Hybrids/Varieties:</u>
No-Till	Continuous Corn or Soybean	C: DekalbDKC5139
Conventional	Alternating Corn - Soybean	Dekalb DKC5020
	Corn 5yrs. / Soybean 5 yrs.	Pioneer P38B87
		S: Latham 2620RX
		Pioneer 92Y20
		Pioneer 92M33

Results: Tables C-35 and C-36.

**Table C-35. Corn/Soybean Rotation and Tillage Study - Corn.
Arlington, WI - 2008.**

Rotation	Variety	Tillage	Yield bu/A	Moisture %	Test weight lbs/bu	Grower return \$/A	Lodged			Harvest plants plants/A	Grain Composition			Ethanol	
							Total %	Stalk %	Root %		Oil %	Starch %	Protein %	per bu gallons	per A gallons
		Conv	235	22	55	787	1	0	1	31762	3.3	61.4	7.1	2.93	689
		No-Till	213	27	52	694	0	0	0	30766	3.3	61.3	7.3	2.91	620
	Dekalb DKC50-20		235	24	53	775	0	0	0	31731	3.3	61.6	6.8	2.92	686
	Dekalb DKC51-39		235	26	53	771	1	0	1	32104	3.3	61.6	6.9	2.91	685
	Pioneer 38B87		203	22	54	675	0	0	0	29957	3.1	60.9	7.9	2.93	593
	Dekalb DKC50-20	Conv	246	22	54	825	0	0	0	32393	3.3	61.7	6.7	2.93	723
	Dekalb DKC50-20	No-Till	223	27	52	726	0	0	0	31070	3.3	61.5	6.8	2.91	649
	Dekalb DKC51-39	Conv	244	23	54	815	2	0	2	32214	3.3	61.7	6.8	2.93	716
	Dekalb DKC51-39	No-Till	226	29	52	727	1	0	1	31993	3.3	61.4	7.0	2.89	654
	Pioneer 38B87	Conv	214	21	57	721	0	0	0	30679	3.1	60.9	7.9	2.93	628
	Pioneer 38B87	No-Till	191	24	52	630	0	0	0	29236	3.2	61.0	7.9	2.92	558
1C			256	22	55	857	0	0	0	32042	3.3	61.2	7.4	2.92	747
1CC			216	25	53	711	0	0	0	31250	3.3	61.5	7.3	2.91	629
1CS			239	24	54	793	0	0	0	32028	3.2	61.4	7.3	2.93	701
2C			228	24	54	754	1	0	1	31417	3.3	61.4	6.9	2.92	667
3C			204	23	51	675	2	0	2	30958	3.3	61.4	7.1	2.92	595
4C			211	26	53	689	1	0	1	30125	3.3	61.3	7.2	2.92	615
5C			215	26	53	705	0	0	0	31028	3.3	61.3	7.0	2.92	628
1C		Conv	255	20	56	862	1	1	0	32500	3.3	61.1	7.4	2.92	745
1C		No-Till	257	23	54	853	0	0	0	31583	3.3	61.2	7.4	2.91	748
1CC		Conv	237	22	55	792	0	0	0	31833	3.2	61.4	7.2	2.92	692
1CC		No-Till	195	28	52	631	0	0	0	30667	3.3	61.5	7.3	2.90	565
1CS		Conv	247	22	55	828	0	0	0	32167	3.2	61.4	7.3	2.94	726
1CS		No-Till	232	26	52	757	0	0	0	31890	3.2	61.4	7.3	2.92	676
2C		Conv	235	22	55	785	1	0	1	31167	3.3	61.5	6.8	2.93	688
2C		No-Till	221	26	53	723	0	0	0	31667	3.3	61.4	7.1	2.91	645
3C		Conv	221	22	55	741	2	0	2	31667	3.3	61.6	7.0	2.93	649
3C		No-Till	187	24	48	608	2	0	2	30250	3.3	61.2	7.3	2.91	542

continued

Table C-35. Corn/Soybean Rotation and Tillage Study - Corn.(continued) **Arlington, WI - 2008.**

Rotation	Variety	Tillage	Yield bu/A	Moisture %	Test weight lbs/bu	Grower return \$/A	Lodged			Harvest plants plants/A	Grain Composition			Ethanol	
							Total %	Stalk %	Root %		Oil %	Starch %	Protein %	per bu gallons	per A gallons
4C		Conv	222	22	55	742	1	0	1	31750	3.3	61.5	7.3	2.94	651
4C		No-Till	199	30	52	637	1	0	1	28500	3.3	61.2	7.2	2.90	578
5C		Conv	228	23	54	757	1	0	1	31250	3.2	61.5	6.9	2.94	669
5C		No-Till	202	28	52	652	0	0	0	30807	3.3	61.2	7.2	2.90	586
1C	Dekalb DKC50-20		270	22	54	905	0	0	0	32750	3.3	61.5	7.1	2.92	789
1C	Dekalb DKC51-39		265	23	54	882	0	0	0	32375	3.4	61.5	7.1	2.91	771
1C	Pioneer 38B87		234	21	57	786	0	0	0	31000	3.2	60.5	8.0	2.91	680
1CC	Dekalb DKC50-20		244	25	52	808	0	0	0	33000	3.3	61.7	6.6	2.92	713
1CC	Dekalb DKC51-39		216	27	52	703	0	0	0	32000	3.3	61.8	7.1	2.89	624
1CC	Pioneer 38B87		187	23	55	624	1	0	1	28750	3.2	60.9	8.0	2.92	548
1CS	Dekalb DKC50-20		250	24	53	825	0	0	0	31424	3.3	61.7	7.0	2.93	731
1CS	Dekalb DKC51-39		250	25	52	823	0	0	0	33236	3.3	61.5	7.0	2.93	732
1CS	Pioneer 38B87		219	22	56	731	0	0	0	31424	3.1	61.0	8.0	2.93	641
2C	Dekalb DKC50-20		230	24	52	761	0	0	0	31750	3.3	61.6	6.4	2.92	672
2C	Dekalb DKC51-39		243	25	53	796	2	0	2	33000	3.3	61.6	6.8	2.92	709
2C	Pioneer 38B87		212	23	56	705	0	0	0	29500	3.1	61.1	7.6	2.92	619
3C	Dekalb DKC50-20		219	24	53	723	0	0	0	31250	3.4	61.6	6.8	2.92	638
3C	Dekalb DKC51-39		225	25	53	740	7	0	7	30750	3.3	61.6	6.8	2.91	655
3C	Pioneer 38B87		168	20	48	561	0	0	0	30875	3.1	61.0	7.9	2.93	493
4C	Dekalb DKC50-20		206	26	53	674	0	0	0	30000	3.3	61.4	7.1	2.92	601
4C	Dekalb DKC51-39		223	27	53	722	2	0	2	31125	3.3	61.6	6.9	2.91	649
4C	Pioneer 38B87		203	24	54	672	0	0	0	29250	3.2	61.0	7.6	2.93	595
5C	Dekalb DKC50-20		224	26	52	732	1	0	1	31944	3.3	61.6	6.4	2.93	655
5C	Dekalb DKC51-39		226	28	52	732	0	0	0	32238	3.3	61.4	6.7	2.91	656
5C	Pioneer 38B87		196	24	55	650	0	0	0	28903	3.1	61.1	8.0	2.93	573
1C	Dekalb DKC50-20	Conv	266	20	55	900	0	0	0	32250	3.3	61.3	7.3	2.92	779
1C	Dekalb DKC50-20	No-Till	273	23	53	909	0	0	0	33250	3.3	61.7	7.0	2.92	799
1C	Dekalb DKC51-39	Conv	263	21	55	887	1	1	0	32750	3.3	61.5	7.0	2.92	769

continued

Table C-35. Corn/Soybean Rotation and Tillage Study - Corn.(continued) **Arlington, WI - 2008.**

Rotation	Variety	Tillage	Yield bu/A	Moisture %	Test weight lbs/bu	Grower return \$/A	Lodged			Harvest plants plants/A	Grain Composition			Ethanol	
							Total %	Stalk %	Root %		Oil %	Starch %	Protein %	per bu gallons	per A gallons
1C	Dekalb DKC51-39	No-Till	266	25	53	877	0	0	0	32000	3.4	61.4	7.3	2.90	773
1C	Pioneer 38B87	Conv	236	20	57	797	1	1	0	32500	3.2	60.5	8.0	2.92	687
1C	Pioneer 38B87	No-Till	232	22	56	774	0	0	0	29500	3.2	60.6	8.0	2.90	672
1CC	Dekalb DKC50-20	Conv	277	22	54	930	0	0	0	33250	3.3	61.6	6.5	2.93	814
1CC	Dekalb DKC50-20	No-Till	211	27	51	685	0	0	0	32750	3.3	61.7	6.8	2.90	613
1CC	Dekalb DKC51-39	Conv	233	23	53	775	0	0	0	31750	3.3	61.8	7.0	2.91	678
1CC	Dekalb DKC51-39	No-Till	198	30	52	631	0	0	0	32250	3.3	61.8	7.3	2.87	570
1CC	Pioneer 38B87	Conv	199	21	57	671	0	0	0	30500	3.1	60.9	8.0	2.93	584
1CC	Pioneer 38B87	No-Till	175	25	54	576	1	0	1	27000	3.2	61.0	8.0	2.92	512
1CS	Dekalb DKC50-20	Conv	256	22	54	855	0	0	0	32500	3.3	61.8	7.0	2.94	752
1CS	Dekalb DKC50-20	No-Till	244	26	51	794	0	0	0	30348	3.3	61.5	7.0	2.91	710
1CS	Dekalb DKC51-39	Conv	259	22	53	865	0	0	0	33500	3.3	61.6	7.0	2.94	762
1CS	Dekalb DKC51-39	No-Till	241	27	51	780	0	0	0	32973	3.3	61.3	7.0	2.91	701
1CS	Pioneer 38B87	Conv	227	21	57	764	1	0	1	30500	3.1	60.7	8.0	2.93	664
1CS	Pioneer 38B87	No-Till	211	24	54	697	0	0	0	32348	3.1	61.3	8.0	2.93	618
2C	Dekalb DKC50-20	Conv	239	22	53	801	0	0	0	31500	3.3	61.7	6.3	2.93	701
2C	Dekalb DKC50-20	No-Till	221	26	51	721	0	0	0	32000	3.4	61.6	6.5	2.91	643
2C	Dekalb DKC51-39	Conv	247	23	54	820	3	0	3	32750	3.3	61.8	6.5	2.94	724
2C	Dekalb DKC51-39	No-Till	239	28	52	772	0	0	0	33250	3.3	61.4	7.0	2.91	693
2C	Pioneer 38B87	Conv	219	22	57	736	1	0	1	29250	3.2	61.0	7.5	2.92	640
2C	Pioneer 38B87	No-Till	204	24	55	675	0	0	0	29750	3.1	61.2	7.8	2.93	598
3C	Dekalb DKC50-20	Conv	229	22	54	767	0	0	0	32000	3.3	61.9	6.5	2.93	672
3C	Dekalb DKC50-20	No-Till	209	27	52	678	0	0	0	30500	3.4	61.3	7.0	2.90	605
3C	Dekalb DKC51-39	Conv	238	22	55	794	7	0	7	31000	3.4	61.7	6.8	2.92	695
3C	Dekalb DKC51-39	No-Till	212	28	52	685	6	0	6	30500	3.3	61.5	6.8	2.90	615
3C	Pioneer 38B87	Conv	197	21	56	662	0	0	0	32000	3.2	61.1	7.8	2.94	580
3C	Pioneer 38B87	No-Till	139	18	40	460	0	0	0	29750	3.1	60.9	8.0	2.93	407

continued

**Table C-36. Corn/Soybean Rotation Study - Soybean
Arlington, WI - 2008**

Rotation	Variety	Tillage	Grain		Grower return \$/A	Lodging 1- 5	Seed Composition		Total		
			Yield bu/a	Moisture %			Protein ---- % ----	Oil	Protein ---- lbs/acre ----	Oil	Pro+oil
		Conv	63	13.1	538	1	34.3	19.4	1297	735	2032
		No-Till	62	13.3	531	1	34.6	19.3	1294	725	2020
	Latham 2620RX		64	13.0	545	1	35.1	19.1	1346	732	2077
	Pioneer 92M33		66	13.1	559	1	33.3	20.4	1308	803	2111
	Pioneer 92Y20		59	13.5	501	1	34.9	18.6	1232	656	1889
	Latham 2620RX	Conv	64	13.0	546	1	35.0	19.0	1342	733	2075
	Latham 2620RX	No-Till	64	13.1	544	1	35.3	19.1	1349	731	2080
	Pioneer 92M33	Conv	66	13.0	563	1	33.0	20.5	1306	812	2118
	Pioneer 92M33	No-Till	65	13.2	554	1	33.6	20.3	1311	794	2105
	Pioneer 92Y20	Conv	59	13.4	506	1	34.9	18.5	1242	661	1903
	Pioneer 92Y20	No-Till	58	13.5	496	1	34.9	18.6	1223	652	1875
1st Year Soybean			71	13.1	607	1	34.3	19.3	1467	827	2294
2nd Year Soybean			69	13.3	591	1	34.3	19.3	1425	804	2229
3rd Year Soybean			60	13.3	514	1	34.8	19.2	1261	698	1959
4th Year Soybean			62	13.1	532	1	34.4	19.4	1288	729	2017
5th Year Soybean			53	13.2	447	1	34.6	19.4	1090	612	1703
Soybean/Corn			65	13.2	555	1	34.1	19.2	1330	755	2085
Cont.Soybean			58	13.1	497	1	34.6	19.6	1208	687	1895
1st Year Soybean		Conv	76	13.1	644	1	34.0	19.3	1542	875	2417
1st Year Soybean		No-Till	67	13.2	571	1	34.7	19.3	1393	778	2170
2nd Year Soybean		Conv	70	13.2	599	1	34.0	19.3	1437	818	2254
2nd Year Soybean		No-Till	68	13.3	582	1	34.5	19.3	1413	791	2204
3rd Year Soybean		Conv	61	13.3	522	1	34.5	19.3	1267	713	1980
3rd Year Soybean		No-Till	60	13.4	507	1	35.1	19.1	1254	683	1938
4th Year Soybean		Conv	63	13.1	536	1	34.2	19.4	1290	733	2023
4th Year Soybean		No-Till	62	13.2	527	1	34.7	19.4	1287	724	2011
5th Year Soybean		Conv	51	13.2	433	1	34.7	19.4	1054	593	1647
5th Year Soybean		No-Till	54	13.2	462	1	34.6	19.4	1126	632	1758

continued

Table C-36. Corn/Soybean Rotation Study - Soybean
(continued) **Arlington, WI - 2008**

Rotation	Variety	Tillage	Grain		Grower return \$/A	Lodging 1- 5	Seed Composition		Total		
			Yield bu/a	Moisture %			Protein ---- % ----	Oil	Protein ---- lbs/acre ----	Oil	Pro+oil
Soybean/Corn		Conv	67	13.1	573	1	33.7	19.3	1356	781	2137
Soybean/Corn		No-Till	63	13.3	537	1	34.5	19.2	1303	729	2032
Cont.Soybean		Conv	54	12.9	461	1	34.9	19.5	1130	633	1764
Cont.Soybean		No-Till	63	13.3	533	1	34.3	19.7	1285	741	2026
1st Year Soybean	Latham 2620RX		73	12.9	622	1	35.0	19.0	1533	834	2366
1st Year Soybean	Pioneer 92M33		72	13.1	609	1	32.9	20.4	1411	878	2289
1st Year Soybean	Pioneer 92Y20		69	13.4	591	1	35.0	18.5	1458	768	2226
2nd Year Soybean	Latham 2620RX		72	13.0	615	1	34.4	19.4	1491	840	2330
2nd Year Soybean	Pioneer 92M33		72	13.3	617	1	33.5	20.1	1455	872	2327
2nd Year Soybean	Pioneer 92Y20		64	13.5	540	1	34.9	18.4	1329	701	2031
3rd Year Soybean	Latham 2620RX		63	13.2	532	1	35.5	18.8	1332	707	2038
3rd Year Soybean	Pioneer 92M33		66	13.1	561	1	33.7	20.4	1329	807	2136
3rd Year Soybean	Pioneer 92Y20		53	13.7	450	1	35.3	18.3	1121	581	1702
4th Year Soybean	Latham 2620RX		63	13.1	536	1	35.1	19.1	1323	723	2046
4th Year Soybean	Pioneer 92M33		63	13.1	539	1	33.8	20.0	1280	763	2043
4th Year Soybean	Pioneer 92Y20		61	13.3	520	1	34.4	19.1	1262	699	1961
5th Year Soybean	Latham 2620RX		54	13.0	463	1	35.7	18.9	1163	617	1780
5th Year Soybean	Pioneer 92M33		54	13.1	456	1	33.4	20.6	1070	663	1733
5th Year Soybean	Pioneer 92Y20		50	13.5	423	1	34.8	18.7	1038	557	1595
Soybean/Corn	Latham 2620RX		66	13.0	564	1	34.9	18.8	1388	749	2137
Soybean/Corn	Pioneer 92M33		70	13.1	595	1	32.5	20.5	1359	858	2217
Soybean/Corn	Pioneer 92Y20		60	13.4	507	1	34.8	18.4	1242	658	1900
Cont.Soybean	Latham 2620RX		56	13.1	479	1	35.3	19.3	1191	653	1843
Cont.Soybean	Pioneer 92M33		63	12.9	535	1	33.3	20.7	1255	780	2035
Cont.Soybean	Pioneer 92Y20		56	13.3	476	1	35.1	18.7	1177	628	1806
1st Year Soybean	Latham 2620RX	Conv	77	12.8	652	1	34.8	19.0	1597	871	2468
1st Year Soybean	Latham 2620RX	No-Till	70	13.0	593	1	35.2	19.1	1468	797	2265
1st Year Soybean	Pioneer 92M33	Conv	77	13.0	658	1	32.3	20.6	1499	956	2455

continued

Table C-36. Corn/Soybean Rotation Study - Soybean(continued) **Arlington, WI - 2008**

Rotation	Variety	Tillage	Grain		Grower return \$/A	Lodging 1- 5	Seed Composition		Total		
			Yield bu/a	Moisture %			Protein ---- % ----	Oil	Protein ---- lbs/acre ----	Oil	Pro+oil
1st Year Soybean	Pioneer 92M33	No-Till	66	13.2	560	1	33.5	20.3	1322	800	2122
1st Year Soybean	Pioneer 92Y20	Conv	73	13.4	622	1	34.9	18.2	1529	800	2329
1st Year Soybean	Pioneer 92Y20	No-Till	66	13.4	559	1	35.2	18.7	1387	737	2124
2nd Year Soybean	Latham 2620RX	Conv	73	13.0	623	1	34.1	19.4	1497	851	2348
2nd Year Soybean	Latham 2620RX	No-Till	71	13.0	608	1	34.7	19.3	1485	829	2313
2nd Year Soybean	Pioneer 92M33	Conv	74	13.3	632	1	33.3	20.1	1481	894	2375
2nd Year Soybean	Pioneer 92M33	No-Till	71	13.3	601	1	33.7	20.1	1429	850	2278
2nd Year Soybean	Pioneer 92Y20	Conv	64	13.5	543	1	34.8	18.5	1332	708	2040
2nd Year Soybean	Pioneer 92Y20	No-Till	63	13.6	537	1	35.0	18.3	1327	694	2021
3rd Year Soybean	Latham 2620RX	Conv	63	13.2	539	1	35.1	19.0	1332	724	2056
3rd Year Soybean	Latham 2620RX	No-Till	62	13.1	526	1	35.9	18.6	1331	690	2020
3rd Year Soybean	Pioneer 92M33	Conv	68	12.9	576	1	33.3	20.5	1350	834	2184
3rd Year Soybean	Pioneer 92M33	No-Till	64	13.3	545	1	34.0	20.3	1308	781	2088
3rd Year Soybean	Pioneer 92Y20	Conv	53	13.7	450	1	35.2	18.3	1118	582	1700
3rd Year Soybean	Pioneer 92Y20	No-Till	53	13.8	450	1	35.4	18.3	1124	580	1704
4th Year Soybean	Latham 2620RX	Conv	64	13.1	549	1	34.8	19.1	1346	739	2085
4th Year Soybean	Latham 2620RX	No-Till	61	13.1	523	1	35.3	19.2	1300	707	2007
4th Year Soybean	Pioneer 92M33	Conv	62	13.0	528	1	33.7	19.9	1249	745	1993
4th Year Soybean	Pioneer 92M33	No-Till	65	13.2	550	1	34.0	20.1	1312	782	2094
4th Year Soybean	Pioneer 92Y20	Conv	62	13.2	531	1	34.1	19.1	1275	716	1991
4th Year Soybean	Pioneer 92Y20	No-Till	60	13.3	509	1	34.8	19.0	1249	683	1931
5th Year Soybean	Latham 2620RX	Conv	52	12.9	443	1	35.9	18.8	1117	589	1706
5th Year Soybean	Latham 2620RX	No-Till	57	13.0	484	1	35.5	18.9	1210	645	1855
5th Year Soybean	Pioneer 92M33	Conv	52	13.1	440	1	33.3	20.7	1024	643	1667
5th Year Soybean	Pioneer 92M33	No-Till	55	13.2	472	1	33.5	20.5	1115	683	1798
5th Year Soybean	Pioneer 92Y20	Conv	49	13.6	415	1	34.9	18.7	1021	547	1569
5th Year Soybean	Pioneer 92Y20	No-Till	51	13.4	431	1	34.7	18.7	1054	567	1620
Soybean/Corn	Latham 2620RX	Conv	67	12.9	569	1	34.5	18.9	1384	756	2140
Soybean/Corn	Latham 2620RX	No-Till	66	13.2	559	1	35.4	18.8	1391	742	2133

continued

Table C-36. Corn/Soybean Rotation Study - Soybean
(continued) **Arlington, WI - 2008**

Rotation	Variety	Tillage	Grain		Grower return \$/A	Lodging 1- 5	Seed Composition		Total		
			Yield bu/a	Moisture %			Protein ---- % ----	Oil	Protein ---- lbs/acre ----	Oil	Pro+oil
Soybean/Corn	Pioneer 92M33	Conv	73	13.0	622	1	31.9	20.6	1396	902	2298
Soybean/Corn	Pioneer 92M33	No-Till	67	13.2	568	1	33.1	20.3	1322	814	2136
Soybean/Corn	Pioneer 92Y20	Conv	62	13.3	528	1	34.6	18.4	1289	685	1974
Soybean/Corn	Pioneer 92Y20	No-Till	57	13.5	486	1	34.9	18.5	1195	632	1827
Cont.Soybean	Latham 2620RX	Conv	52	12.9	446	1	35.7	19.1	1121	601	1722
Cont.Soybean	Latham 2620RX	No-Till	60	13.2	513	1	34.9	19.5	1261	704	1965
Cont.Soybean	Pioneer 92M33	Conv	57	12.6	487	1	33.2	20.8	1141	712	1854
Cont.Soybean	Pioneer 92M33	No-Till	68	13.1	583	1	33.3	20.6	1368	848	2216
Cont.Soybean	Pioneer 92Y20	Conv	53	13.1	449	1	35.6	18.6	1129	587	1716
Cont.Soybean	Pioneer 92Y20	No-Till	59	13.6	502	1	34.6	18.9	1226	670	1896
Mean			63	13.2	535	1	34.4	19.3	1295	730	2026
Probability(%)											
Rotation (R)			0.0	15.1	0.0	-	19.7	45.7	0.0	0.0	0.0
Variety (V)			0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Tillage (T)			35.6	0.0	34.9	-	0.2	70.5	90.0	36.1	66.5
R x V			10.2	11.7	9.9	-	14.6	28.7	11.2	16.5	10.2
R x T			0.0	4.9	0.0	-	0.4	31.8	0.1	0.0	0.0
V x T			90.8	42.8	90.6	-	11.4	17.7	79.7	83.5	89.2
R x V x T			97.0	70.0	97.0	-	92.7	51.8	98.5	91.8	97.3
LSD(0.10)											
Rotation (R)			5	NS	40	-	NS	NS	90	55	143
Variety (V)			2	0.1	15	-	0.3	0.2	36	25	57
Tillage (T)			NS	0.1	NS	-	0.2	NS	NS	NS	NS
R x V			NS	NS	49	-	NS	NS	NS	NS	NS
R x T			5	0.2	44	-	0.6	NS	100	61	159
V x T			NS	0.1	NS	-	NS	NS	NS	NS	NS
R x V x T			NS	NS	NS	-	NS	NS	NS	NS	NS