

FIELD EXPERIMENT HISTORY

Year: 2007
Title: Corn/Soybean/Wheat Rotation Study
Experiment: 2791
Personnel: Shawn Conley, Joe Lauer, John Gaska, Kent Kohn, and Justin Hopf
Organization: UW Madison, Dept. of Agronomy
Location: Arlington Agricultural Research Station, Arlington, WI

FIELD INFORMATION

Field: ARS 335
Soil Type: Plano Silt Loam
Soil Test Results: pH: 6.6 O.M.(%): 2.7 P(ppm): 11 K(ppm): 96 4/17/2007
Fertilizer Applied: Soybean: None
 Wheat: 70 lb/a as 46-0-0
 Corn: 70 gal/a of 28-0-0
Tillage Operations: No-till
Previous Crop: Corn/Soybean/Wheat
Previous Herbicide: Roundup
Irrigation: None

EXPERIMENTAL PROCEDURE

Exp. Design: RCB Split plot
Replicates: 3
Variables: Factors/Treatments:

<u>System</u>	<u>Rotation</u>
Continuous	Corn, Soybean or Winter Wheat
Alternating	Corn/Soybean
Grain system I	Corn/Soybean(early)/Winter Wheat(red clover)
Grain system II	Corn(early)/Winter Wheat(red clover)/Soybean
Livestock system	Corn(silage)/Winter Wheat(straw removed)/Soybean

	<u>Corn</u>	<u>Soybean</u>	<u>Wheat</u>
Area Planted:	10' x 60'	10' x 60'	10' x 60'
Area Harvested:	5' x 56'	5' x 56'	5' x 26'
Row Spacing:	30"	30"	7.5"
Seeding Rate (spa):	32,500 seeds/acre	150,000 seeds/acre	150 lb/acre
Hybrid/Variety:	Pioneer 38B87	NK S21-N6	Kaskaskia Pioneer 25R78
Planting Date:	4-May-07	7-May-07	13-Oct-06
Planting Equip:	Kinze 2000 Interplant	Kinze 2000 Interplant	JD 750 No-Till Drill
Harvesting Date:	9/28/2007 8/31/07-silage	4-Oct-07	17-Jul-07
Harvesting Equip:	707 silage harvester Kincaid plot combine	Almaco plot combine	Almaco plot combine

Foliar Fungicide Treatments	UTC Headline SBR Quadris Quilt	UTC Headline SBR Quadris Quilt	UTC Proline GS7.5 Proline GS 8 Proline GS 10.51
-----------------------------	---	---	--

	<u>Date</u>	<u>Material</u>	<u>Rate</u>
Herbicides:	15-Jun-07	Credit Systemic Extra	32 oz/ acre
	11-Jun-07	Credit Systemic Extra	32 oz/ acre
	7-May-07	Dual II - Magnum	24 oz/ acre
	7-May	Gramox one Inteon	32 oz/ acre

Insecticides: Poncho 250, Force 3G 4oz./100 ft.row
 Prozap

Results: Table C-34, C-35, C-36, & C-37.

**Table C-34. Corn, Soybean, and Wheat Rotation-Corn
Arlington, WI - 2007.**

Rotation	Fungicide	Yield bu/A	Moisture %	Test Weight lbs/bu	Grower Return \$/A	Lodged			Harvest plants/A	Grain Composition			Ethanol	
						Total %	Stalk %	Root %		Oil %	Starch %	Protein %	per bu gallons	per A gallons
	UTC	205	22.4	54.8	681	0.2	0.0	0.2	32774	3.3	60.3	7.7	2.92	600
	Headline SBR 7.8 fl oz/A @ VT	218	23.0	54.5	718	0.2	0.0	0.2	32514	3.4	60.4	7.8	2.91	633
	Quadris 6.0 fl oz/A @ VT	212	23.2	54.5	697	0.1	0.1	0.1	32437	3.3	60.4	7.7	2.91	617
	Quilt 14.0 fl oz/A @VT	218	23.0	54.7	718	0.1	0.0	0.1	32592	3.4	60.2	7.8	2.91	633
Continous Corn		220	24.4	54.0	719	0.4	0.1	0.3	31892	3.3	60.3	7.7	2.92	642
Corn/Soybean		218	21.5	55.2	726	0.0	0.0	0.0	34018	3.3	60.3	7.9	2.91	634
Grain System I		206	23.9	53.9	675	0.0	0.0	0.0	30648	3.3	60.7	7.4	2.93	602
Grain System II		209	21.7	55.4	694	0.2	0.0	0.2	33759	3.4	60.0	8.0	2.90	604
Continous Corn	UTC	216	23.6	54.3	710	0.5	0.0	0.5	32151	3.3	60.5	7.6	2.94	634
Continous Corn	Headline SBR 7.8 fl oz/A @ VT	222	24.5	53.5	727	0.5	0.0	0.5	32359	3.3	60.3	7.6	2.91	648
Continous Corn	Quadris 6.0 fl oz/A @ VT	211	25.1	53.8	688	0.4	0.2	0.2	30803	3.3	60.2	7.8	2.91	615
Continous Corn	Quilt 14.0 fl oz/A @VT	229	24.4	54.2	751	0.3	0.2	0.2	32255	3.3	60.0	7.7	2.92	669
Corn/Soybean	UTC	203	21.0	55.2	679	0.0	0.0	0.0	33500	3.3	60.0	7.9	2.91	592
Corn/Soybean	Headline SBR 7.8 fl oz/A @ VT	230	22.1	55.1	764	0.0	0.0	0.0	33396	3.3	60.4	7.8	2.90	667
Corn/Soybean	Quadris 6.0 fl oz/A @ VT	218	21.6	55.1	725	0.0	0.0	0.0	34226	3.3	60.5	7.8	2.91	635
Corn/Soybean	Quilt 14.0 fl oz/A @VT	221	21.4	55.2	737	0.0	0.0	0.0	34952	3.4	60.2	7.9	2.90	643
Grain System I	UTC	197	23.7	53.7	648	0.0	0.0	0.0	31425	3.3	60.5	7.4	2.93	577
Grain System I	Headline SBR 7.8 fl oz/A @ VT	210	23.5	54.2	690	0.2	0.0	0.2	30907	3.3	60.7	7.5	2.93	614
Grain System I	Quadris 6.0 fl oz/A @ VT	208	24.2	54.0	681	0.0	0.0	0.0	30803	3.3	60.7	7.3	2.93	609
Grain System I	Quilt 14.0 fl oz/A @VT	208	24.4	53.9	682	0.0	0.0	0.0	29455	3.3	60.6	7.5	2.92	609
Grain System II	UTC	206	21.3	55.7	686	0.3	0.0	0.3	34018	3.4	60.1	7.9	2.90	597
Grain System II	Headline SBR 7.8 fl oz/A @ VT	208	21.8	55.0	692	0.2	0.0	0.2	33396	3.5	60.0	8.1	2.89	602
Grain System II	Quadris 6.0 fl oz/A @ VT	210	22.0	55.0	696	0.1	0.0	0.1	33915	3.4	60.2	7.8	2.90	608
Grain System II	Quilt 14.0 fl oz/A @VT	211	21.9	55.6	701	0.2	0.0	0.2	33707	3.4	59.9	8.1	2.89	610
Mean		213	22.9	54.6	704	0.2	0.0	0.1	32579	3.3	60.3	7.7	2.91	621
Probability(%)														
Rotation (R)		60.1	0.5	2.3	57.0	44.1	45.5	43.8	1.8	4.7	1.6	0.3	1.1	58.3
Fungicide (F)		4.7	0.8	57.0	6.1	84.6	41.0	53.2	96.7	60.0	33.9	83.5	36.2	8.0
R x F		68.3	39.8	83.6	65.8	99.6	46.6	94.4	77.8	68.6	60.0	95.7	91.1	67.0
LSD (0.10)														
Rotation (R)		NS	1.1	0.8	NS	NS	NS	NS	1597	0.1	0.2	0.2	0.01	NS
Fungicide (F)		8	0.4	NS	26	NS	NS	NS	NS	NS	NS	NS	NS	24
R x F		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CV(%)														
		11	2	1	5	167	407	189	5	3	0	4	1	5

**Table C-35. Corn, Soybean, and Wheat Rotation-Silage
Arlington, WI - 2007.**

Fungicide	Plant population	Whole Plant										
		Dry Matter		Kernel Milk	Crude Protein	<i>In Vitro</i>				Milk per		
		Yield	Moisture			ADF	NDF	Digest	NDFD	Starch	Ton	Acre
plants/A	tons/A	%	%	%	%	%	%	%	%	lbs/T	lbs/T	
UTC	33852	7.2	59.4	66.7	6.7	21.5	42.1	81.3	55.9	36.1	3264	23432
Headline SBR 7.8 fl oz/A @ VT	34184	7.9	58.4	66.7	6.5	20.6	41.0	81.7	55.6	37.2	3298	26148
Quadris 6.0 fl oz/A @ VT	33189	7.5	59.0	58.3	6.8	20.3	40.1	81.9	54.7	38.2	3312	24710
Quilt 14.0 fl oz/A @VT	34848	7.9	57.1	66.7	6.4	20.4	40.7	82.6	57.2	38.3	3349	26614
Mean	34018	7.6	58.5	64.6	6.6	20.7	41.0	81.9	55.9	37.4	3306	25226
<u>Probability(%)</u>												
Fungicide	1.9	24.5	78.8	45.5	42.4	81.5	59.4	89.7	82.5	70.9	88.7	36.4
<u>LSD (0.10)</u>												
Fungicide	697	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<u>CV(%)</u>												
	1	6	5	11	5	8	4	3	6	7	4	9

**Table C-36. Corn, Soybean, and Wheat Rotation-Soybean
Arlington, WI - 2007.**

Rotation	Fungicide	Yield bu/A	Moisture %	Grower return \$/A	Height inches	Lodging 1 to 5	BRS 1 to 11	Seed Composition		Total		Protein +
								Protein %	Oil %	Protein lbs/A	Oil lbs/A	Oil lbs/A
	UTC	64.9	13.1	631	28.3	1	3	33.1	20.1	1290	781	2071
	Headline SBR 7.8 fl oz/A @ R3	65.5	13.2	637	28.2	1	3	33.2	20.1	1305	787	2092
	Quadris 6 fl oz/A @ R3	63.4	13.2	616	27.2	1	2	33.0	20.1	1255	765	2020
	Quilt 14 fl oz/A @ R3	64.4	13.2	626	27.8	1	3	33.3	20.0	1288	774	2062
Continuous		49.8	13.3	484	27.3	1	4	33.8	20.5	1010	611	1621
Alternating		68.0	13.2	661	27.7	1	3	33.3	20.1	1359	819	2178
Grain System I		71.7	13.2	697	28.7	1	2	33.1	20.2	1425	867	2292
Grain System II		65.7	13.2	639	28.4	1	2	32.9	19.9	1298	783	2081
Livestock System		67.6	13.2	658	27.3	1	2	32.7	19.8	1329	805	2134
Continuous	UTC	50.2	13.1	488	28.0	1	4	34.0	20.4	1027	613	1640
Continuous	Headline SBR 7.8 fl oz/A @ R3	50.8	13.4	494	27.3	1	4	33.8	20.6	1031	627	1657
Continuous	Quadris 6 fl oz/A @ R3	49.0	13.5	476	26.7	1	5	33.6	20.5	987	601	1588
Continuous	Quilt 14 fl oz/A @ R3	49.0	13.0	477	27.3	1	5	33.8	20.5	996	602	1598
Alternating	UTC	68.7	13.2	668	28.0	1	3	33.4	20.1	1378	830	2208
Alternating	Headline SBR 7.8 fl oz/A @ R3	68.7	13.1	668	28.3	1	3	33.0	20.1	1360	830	2190
Alternating	Quadris 6 fl oz/A @ R3	66.0	13.2	642	27.0	1	3	33.5	19.9	1327	790	2116
Alternating	Quilt 14 fl oz/A @ R3	68.5	13.2	666	27.3	1	3	33.4	20.1	1371	828	2198
Grain System I	UTC	71.0	13.2	690	29.3	1	1	33.0	20.1	1406	857	2263
Grain System I	Headline SBR 7.8 fl oz/A @ R3	73.5	13.2	714	29.0	1	2	33.4	20.1	1471	884	2356
Grain System I	Quadris 6 fl oz/A @ R3	71.1	13.1	691	27.3	1	2	32.7	20.3	1394	865	2259
Grain System I	Quilt 14 fl oz/A @ R3	71.2	13.2	693	29.0	1	2	33.4	20.1	1429	860	2289
Grain System II	UTC	67.7	13.2	658	28.3	1	2	33.0	19.9	1341	810	2151
Grain System II	Headline SBR 7.8 fl oz/A @ R3	66.0	13.2	642	29.0	1	2	32.7	19.7	1295	781	2076
Grain System II	Quadris 6 fl oz/A @ R3	65.2	13.2	634	27.7	1	1	32.8	19.9	1285	780	2065
Grain System II	Quilt 14 fl oz/A @ R3	63.9	13.3	621	28.7	1	2	33.2	19.8	1272	761	2033
Livestock System	UTC	66.9	13.0	650	27.7	1	3	32.3	19.8	1297	795	2092
Livestock System	Headline SBR 7.8 fl oz/A @ R3	68.6	13.1	667	27.3	1	2	33.2	19.8	1367	815	2182
Livestock System	Quadris 6 fl oz/A @ R3	65.6	13.2	638	27.3	1	2	32.5	20.0	1280	789	2070
Livestock System	Quilt 14 fl oz/A @ R3	69.4	13.4	675	26.7	1	2	32.9	19.7	1373	819	2192
Mean		64.6	13.2	628	27.9	1	3	33.2	20.1	1284	777	2061
Probability(%)												
Rotation (R)		0.1	99.3	0.1	74.2	-	0.1	28.9	6.2	0.4	0.1	0.2
Fungicide (F)		15.6	75.9	15.6	20.8	-	66.4	37.9	74.7	12.4	24.9	14.2
R x F		80.8	51.5	80.8	99.1	-	26.3	51.3	63.5	73.3	77.2	74.8
LSD (0.10)												
Rotation (R)		6.2	NS	6	NS	-	1	NS	0.4	137	69	203
Fungicide (F)		NS	NS	NS	NS	-	NS	NS	NS	NS	NS	NS
R x F		NS	NS	NS	NS	-	NS	NS	NS	NS	NS	NS
CV(%)		4	2	4	5	-	28	2	1	4	4	4

**Table C-37. Corn, Soybean, and Wheat Rotation-Wheat
Arlington, WI - 2007.**

Rotation	Variety	Fungicide	Yield	Moisture	Test Weight	Grower return	Height	Lodging
			bu/A	%	lbs/bu	\$/A	inches	1 to 5
		UTC	58.6	14.7	61	366.5	28	1.0
		Proline @ GS 7.5	59.4	14.8	61	371.6	28	1.0
		Proline @ GS 8	59.7	14.8	61	374.0	28	1.0
		Proline @ GS 10.51	58.4	14.8	61	365.4	28	1.0
	Kaskaskia		54.8	14.8	61	343.2	31	1.0
	Pioneer 25R78		63.2	14.7	61	395.6	25	1.0
	Kaskaskia	UTC	53.5	14.7	61	334.8	31	1.0
	Kaskaskia	Proline @ GS 7.5	55.5	14.9	61	347.2	31	1.0
	Kaskaskia	Proline @ GS 8	56.0	14.8	61	350.8	31	1.0
	Kaskaskia	Proline @ GS 10.51	54.3	14.8	61	339.9	31	1.0
	Pioneer 25R78	UTC	63.6	14.6	61	398.3	25	1.0
	Pioneer 25R78	Proline @ GS 7.5	63.3	14.7	61	395.9	25	1.0
	Pioneer 25R78	Proline @ GS 8	63.4	14.7	61	397.1	25	1.0
	Pioneer 25R78	Proline @ GS 10.51	62.4	14.7	61	390.9	25	1.0
Continuous			42.5	14.7	60	266.1	27	1.0
Grain Systems I			62.9	14.8	61	393.9	28	1.0
Grain Systems II			62.5	14.9	62	391.5	29	1.0
Livestock System			68.0	14.7	62	426.0	28	1.0
Continuous		UTC	41.2	14.7	60	257.7	28	1.0
Continuous		Proline @ GS 7.5	42.2	14.7	59	263.9	27	1.0
Continuous		Proline @ GS 8	42.4	14.7	59	265.3	27	1.0
Continuous		Proline @ GS 10.51	44.3	14.8	60	277.4	28	1.0
Grain Systems I		UTC	61.2	14.8	61	383.1	29	1.0
Grain Systems I		Proline @ GS 7.5	61.9	14.7	61	387.7	28	1.0
Grain Systems I		Proline @ GS 8	65.7	14.8	62	411.4	28	1.0
Grain Systems I		Proline @ GS 10.51	62.9	14.8	61	393.5	28	1.0
Grain Systems II		UTC	64.1	14.8	62	401.2	28	1.0
Grain Systems II		Proline @ GS 7.5	66.0	15.0	62	413.0	28	1.0
Grain Systems II		Proline @ GS 8	62.4	15.0	61	390.8	29	1.0
Grain Systems II		Proline @ GS 10.51	57.7	14.8	62	360.9	29	1.0
Livestock System		UTC	67.7	14.5	61	424.1	28	1.0
Livestock System		Proline @ GS 7.5	67.4	14.8	62	421.8	28	1.0
Livestock System		Proline @ GS 8	68.4	14.7	62	428.3	29	1.0
Livestock System		Proline @ GS 10.51	68.7	14.7	62	429.8	28	1.0
Continuous	Kaskaskia		44.4	14.9	60	278.2	31	1.0
Continuous	Pioneer 25R78		40.6	14.6	60	254.0	24	1.0
Grain Systems I	Kaskaskia		53.3	14.8	61	333.5	31	1.0
Grain Systems I	Pioneer 25R78		72.6	14.7	61	454.4	26	1.0
Grain Systems II	Kaskaskia		58.1	14.8	61	363.4	31	1.0
Grain Systems II	Pioneer 25R78		67.0	14.9	62	419.5	26	1.0
Livestock System	Kaskaskia		63.5	14.8	62	397.6	31	1.0
Livestock System	Pioneer 25R78		72.6	14.6	62	454.4	26	1.0

continued

Table C-37. Corn, Soybean, and Wheat Rotation-Wheat
(continued) **Arlington, WI - 2007.**

Rotation	Variety	Fungicide	Yield	Moisture	Test	Grower	Height	Lodging
					Weight	return		
			bu/A	%	lbs/bu	\$/A	inches	1 to 5
Continuous	Kaskaskia		45	14.8	60	282	31	1.0
Continuous	Kaskaskia	Proline @ GS 7.5	40	15.0	59	251	31	1.0
Continuous	Kaskaskia	Proline @ GS 8	45	14.9	60	279	31	1.0
Continuous	Kaskaskia	Proline @ GS 10.51	48	14.8	60	301	31	1.0
Continuous	Pioneer 25R78	UTC	37	14.5	60	233	24	1.0
Continuous	Pioneer 25R78	Proline @ GS 7.5	44	14.5	60	277	24	1.0
Continuous	Pioneer 25R78	Proline @ GS 8	40	14.5	59	252	23	1.0
Continuous	Pioneer 25R78	Proline @ GS 10.51	41	14.8	60	254	24	1.0
Grain Systems I	Kaskaskia	UTC	52	14.8	61	324	32	1.0
Grain Systems I	Kaskaskia	Proline @ GS 7.5	54	14.8	61	339	31	1.0
Grain Systems I	Kaskaskia	Proline @ GS 8	59	14.9	61	368	31	1.0
Grain Systems I	Kaskaskia	Proline @ GS 10.51	48	14.9	61	302	31	1.0
Grain Systems I	Pioneer 25R78	UTC	71	14.7	62	442	26	1.0
Grain Systems I	Pioneer 25R78	Proline @ GS 7.5	70	14.6	61	436	26	1.0
Grain Systems I	Pioneer 25R78	Proline @ GS 8	73	14.8	62	455	26	1.0
Grain Systems I	Pioneer 25R78	Proline @ GS 10.51	77	14.7	61	485	25	1.0
Grain Systems II	Kaskaskia	UTC	57	14.8	62	359	31	1.0
Grain Systems II	Kaskaskia	Proline @ GS 7.5	63	15.0	62	397	32	1.0
Grain Systems II	Kaskaskia	Proline @ GS 8	59	14.8	61	368	31	1.0
Grain Systems II	Kaskaskia	Proline @ GS 10.51	53	14.7	62	329	32	1.0
Grain Systems II	Pioneer 25R78	UTC	71	14.8	62	443	26	1.0
Grain Systems II	Pioneer 25R78	Proline @ GS 7.5	68	15.0	62	429	25	1.0
Grain Systems II	Pioneer 25R78	Proline @ GS 8	66	15.1	61	414	26	1.0
Grain Systems II	Pioneer 25R78	Proline @ GS 10.51	63	14.8	62	393	26	1.0
Livestock System	Kaskaskia	UTC	60	14.6	61	373	31	1.0
Livestock System	Kaskaskia	Proline @ GS 7.5	64	14.9	62	402	31	1.0
Livestock System	Kaskaskia	Proline @ GS 8	62	14.8	62	388	32	1.0
Livestock System	Kaskaskia	Proline @ GS 10.51	68	14.8	62	428	31	1.0
Livestock System	Pioneer 25R78	UTC	76	14.5	61	475	25	1.0
Livestock System	Pioneer 25R78	Proline @ GS 7.5	71	14.6	61	442	26	1.0
Livestock System	Pioneer 25R78	Proline @ GS 8	75	14.5	62	469	26	1.0
Livestock System	Pioneer 25R78	Proline @ GS 10.51	69	14.6	62	432	26	1.0
Mean			59	14.8	61	369	28	1.0
Probability(%)								
Rotation (R)			6.7	39.6	3.4	6.7	75.6	-
Variety (V)			0.4	2.2	80.4	0.4	0.0	-
R x V			2.8	7.2	84.2	2.8	68.3	-
Fungicide (F)			72.4	26.2	79.5	72.4	61.3	-
R x V			18.1	79.3	11.5	18.1	62.4	-
V x F			75.9	58.5	77.9	75.9	95.9	-
R x F x V			0.7	86.4	47.8	0.7	6.8	-
LSD (0.10)								
Rotation (R)			15.3	NS	1	96	NS	-
Variety (V)			3.9	0.1	NS	24	1	-
R x V			16.3	0.2	NS	49	NS	-
Fungicide (F)			NS	NS	NS	NS	NS	-
R x V			NS	NS	NS	NS	NS	-
V x F			NS	NS	NS	NS	NS	-
R x F x V			6.6	NS	NS	41	1	-
CV(%)								
			8	2	1	8	3	-

**Table C-38. Corn, Soybean, and Wheat Rotation- Corn
Marshfield, WI - 2007.**

Rotation	Yield bu/A	Moisture %	Test Weight in.	Harvest Population ppa	Stalk Lodging %
Continuous	136.1	28.0	51.9	33364	1.2
Alternating	154.2	25.2	52.4	32622	1.1
Grain System I	145.4	26.7	51.9	33428	1.9
Mean	145.2	26.6	52.1	33138	1.4
<u>Probability (%)</u>					
Treatment	44.2	1.7	8.0	12.4	>50
<u>LSD 10%</u>					
Treatment	NS	1.5	0.4	718	NS
CV (%)	20	7	1	3	24

**Table C-39. Corn, Soybean, and Wheat Rotation- Corn Silage
Marshfield, WI - 2007.**

Rotation	Yield T DM/A	Moisture %	Kernel milk %	Harvest Population ppa	CP %	ADF %	NDF %	NDFD %	NFC %	Starch %	TDN %	Milk per	
												Ton	lb
Continuous	8.3	65.9	59	34945	8.5	20.7	41.6	60.5	45.8	34.9	73.4	3705	30855
Alternating	8.4	68.1	63	36009	9.1	20.4	41.6	60.0	45.0	33.3	73.3	3691	31048
Grain System I	8.6	63.9	57	33977	8.1	20.7	41.3	61.2	46.7	36.2	73.8	3738	32124
Mean	8.0	65.9	58	34848	8.3	20.9	41.9	60.2	45.7	35.2	73.2	3687	29391
<u>Probability (%)</u>													
Treatment	>50	11.9	>50	14.9	14.3	>50	>50	43.9	>50	>50	>50	49.3	>50
<u>LSD 10%</u>													
Treatment	NS	3.3	NS	1715	0.9	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)	18	5	21	5	6	5	5	2	6	12	1	1	21

**Table C-40. Corn, Soybean, and Wheat Rotation- Soybean
Marshfield, WI - 2007.**

Rotation	Yield bu/A	Moisture %	Test		
			Weight lb/bu	Height in.	Lodging 1 to 5
Continuous	26.9	17.3	55.3	24	1.0
Alternating	33.1	17.0	55.0	30	1.3
Grain System I	34.2	16.8	55.6	30	1.2
Mean	34.2	16.8	55.6	30	1.2
<u>Probability (%)</u>					
Treatment	0.3	12.9	18.5	0.9	19.7
<u>LSD 10%</u>					
Treatment	3.3	0.4	0.5	4	0.3
CV (%)	13	3	1	17	32

Table C-41. Corn, Soybean, and Wheat Rotation- Wheat Marshfield, WI - 2007.

Rotation	Yield bu/A	Moisture %	Test		
			Weight lb/bu	Height in.	Lodging 1 to 5
Continuous	26.8	17.7	.	.	.
Grain System I	52.3	13.0	.	.	.
Mean	39.5	15.3	.	.	.
<u>Probability (%)</u>					
Treatment	<0.1	0.1			
<u>LSD 10%</u>					
Treatment	2.8	1.9			
CV (%)	8.4	15.1			