

FIELD EXPERIMENT HISTORY

Title: Corn - Soybean - Wheat Response to Rotation: Cover Crops
Experiment: 09CSW **Trial ID:** 6349 **Year:** 2019
Personnel: Joe Lauer, Thierno Diallo, Kent Kohn
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: 335 **Previous Crop:** See factors **Soil Type:** Plano Silt
Soil Test: Date: 11/12/18 **pH:** 7 **OM (%)** 2.9 **P (ppm)** 20 **K (ppm)** 134

Plot Management**Tillage Operations:**

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	MAP 11-52-0	200 lbs/A 325 lbs/A	4/24/19
Starter :	N/A	N/A	N/A
Post plant :	C: 28-0-0 W: 46-0-0	C: 714 S: 0 lb/A W: 90 lb/A	6//27/19 4/22/19
Manure:	N/A	N/A	N/A
Herbicide:	C,S: Medal II 24 fl oz/a 5/3/19, Tomahawk 5 @ 20 oz/a 5/3/19 2,4-D low vol 4. 16.0 oz/a 5/3/19 Roundup Pmax 32.0 oz/a 6/20/19 w: Powerflex 2 oz/A 5/15/18 MPC Amine 8 oz/A 5/15/18	Hybrid: C: Channel 205-19STXRIB S: Renk RS153NR2 W: Growmark FS 624	
Planting Date:	C: 5/15/19 S: 5/15/19 W: 10/04/18	Planting Depth: C: 1.5" S,W: 1"	Planting Method: C,S: JD1700 with RTK W: JD750 No-Till Drill
Target Plant Density: 35000		Harvest Method: C:MF 8XP combine CS: NH 707	
Harvest Date:	C: 10/28/19, CS: 9/23/19 S: 10/08/19, W: 7/25/19	Row Width: C,S: 30" W: 0.5"	CS: NH 707 S,W: Almaco Plot combine
		Fungicide: N/A	

Notes:**Experimental Design**

Design: RCB split-split-block **Replications:** 3
Plot Size Seeded: MP: 60' x 60'; SP: 10' x 30'
Harvest Plot Size: 5' x 26' **Experiment Size:** 3.47 A
Factors/Treatments:

<u>Rotation:</u>	<u>Cover Crop</u>	<u>Nitrogen Rate lb/A</u>
1) CC	In Corn and Soybean plots use:	1) 0
2) SS	1) UTC	2) 30
3) WW	2) Oat pre-harvest	
4) CS-S	3) Oat post-harvest	
5) CS-C	4) Rye pre-harvest	
6) GS1: CSW-C	5) Rye post-harvest	
7) GS1: CSW-S	6) Oat/Rye in Strip/Wheel track post-harvest	
8) GS1: CSW-W		
9) GS2: CWS-W	In wheat plots use Berseem and Red Clover for	
10) GS2: CWS-S	Trtmts. 2-5, and for Trtmt. 6 use radish.	
11) GS2: CWS-W		
12) Flex: CWS-C		
13) Flex: CWS-W		
14) Flex: CWS-S		

Results: Tables 1909-09 to 1809-12

**Table: 1909 - 09 . Corn, Soybean and Wheat Rotation - Corn
Arlington, WI - 2019.**

Rotation	Cover crop	Fertilizer	Yield bu/A	Moisture %	Test weight lbs/bu	Lodged			Harvest plants plants/A	AGI \$3.54/bu \$/A
						Total %	Stalk %	Root %		
CC-C			228	27.4	51.9	0.1	0.1	0.0	31833	702
CSW-C			232	31.5	52.1	0.2	0.1	0.1	32167	696
CWS-C (e)			256	26.8	52.8	0.2	0.1	0.1	32833	790
SC-C			240	27.4	52.1	0.3	0.3	0.1	32583	736
	Oat-1Sep		237	28.1	52.1	0.4	0.0	0.4	32542	725
	Oat-Post		243	27.5	52.6	0.1	0.1	0.0	32792	746
	Oat/Rye		238	27.8	51.8	0.1	0.1	0.0	32125	729
	Rye-1Sep		227	30.1	52.2	0.5	0.5	0.0	32042	686
	Rye-Post		254	27.1	52.3	0.0	0.0	0.0	32542	782
	UTC		235	29.1	52.3	0.0	0.0	0.0	32083	718
		0	238	28.3	52.3	0.2	0.1	0.0	32500	728
		30	240	28.3	52.2	0.2	0.1	0.1	32208	734
CC-C	Oat-1Sep		215	26.8	51.3	0.0	0.0	0.0	32333	662
CC-C	Oat-Post		236	27.1	52.8	0.0	0.0	0.0	32667	725
CC-C	Oat/Rye		228	27.4	51.3	0.0	0.0	0.0	32500	701
CC-C	Rye-1Sep		211	30.0	52.2	0.6	0.6	0.0	30667	642
CC-C	Rye-Post		254	26.2	51.7	0.0	0.0	0.0	31667	787
CC-C	UTC		225	27.1	52.0	0.0	0.0	0.0	31167	692
CSW-C	Oat-1Sep		232	32.0	51.6	0.6	0.0	0.6	32333	693
CSW-C	Oat-Post		234	29.1	52.1	0.5	0.5	0.0	33167	712
CSW-C	Oat/Rye		228	29.8	51.6	0.0	0.0	0.0	30667	691
CSW-C	Rye-1Sep		239	33.9	52.3	0.0	0.0	0.0	31833	704
CSW-C	Rye-Post		241	28.7	53.1	0.0	0.0	0.0	33000	733
CSW-C	UTC		217	35.6	52.0	0.0	0.0	0.0	32000	640
CWS-C (e)	Oat-1Sep		259	26.5	53.4	0.5	0.0	0.5	32833	800
CWS-C (e)	Oat-Post		252	27.5	53.2	0.0	0.0	0.0	33000	774
CWS-C (e)	Oat/Rye		259	26.7	52.6	0.0	0.0	0.0	32500	799
CWS-C (e)	Rye-1Sep		238	27.0	52.4	0.5	0.5	0.0	32833	734
CWS-C (e)	Rye-Post		270	26.3	52.0	0.0	0.0	0.0	33000	835
CWS-C (e)	UTC		260	26.8	53.0	0.0	0.0	0.0	32833	801
SC-C	Oat-1Sep		242	27.3	52.0	0.5	0.0	0.5	32667	744
SC-C	Oat-Post		250	26.2	52.2	0.0	0.0	0.0	32333	773

continue

Table: 1909 - 09 . Corn, Soybean and Wheat Rotation - Corn
(continued) Arlington, WI - 2019.

Rotation	Cover crop	Fertilizer	Yield bu/A	Moisture %	Test weight lbs/bu	Lodged			Harvest plants plants/A	AGI \$3.54/bu \$/A
						Total %	Stalk %	Root %		
SC-C	Oat/Rye		236	27.4	51.9	0.5	0.5	0.0	32833	725
SC-C	Rye-1Sep		219	29.6	51.9	1.0	1.0	0.0	32833	663
SC-C	Rye-Post		251	27.1	52.2	0.0	0.0	0.0	32500	773
SC-C	UTC		240	27.0	52.3	0.0	0.0	0.0	32333	740
CC-C		0	227	27.6	52.1	0.2	0.2	0.0	32111	699
CC-C		30	229	27.3	51.7	0.0	0.0	0.0	31556	704
CSW-C		0	232	31.2	52.1	0.2	0.2	0.0	32278	695
CSW-C		30	232	31.8	52.2	0.2	0.0	0.2	32056	696
CWS-C (e)		0	256	26.9	52.9	0.2	0.2	0.0	32833	790
CWS-C (e)		30	256	26.7	52.6	0.2	0.0	0.2	32833	791
SC-C		0	237	27.6	52.0	0.2	0.0	0.2	32778	726
SC-C		30	243	27.3	52.1	0.5	0.5	0.0	32389	746
	Oat-1Sep	0	234	28.1	51.8	0.3	0.0	0.3	32417	716
	Oat-1Sep	30	240	28.2	52.3	0.5	0.0	0.5	32667	734
	Oat-Post	0	239	27.8	53.0	0.3	0.3	0.0	32917	732
	Oat-Post	30	247	27.2	52.2	0.0	0.0	0.0	32667	760
	Oat/Rye	0	239	27.8	51.8	0.0	0.0	0.0	32750	731
	Oat/Rye	30	237	27.8	51.9	0.3	0.3	0.0	31500	726
	Rye-1Sep	0	221	30.4	52.6	0.5	0.5	0.0	31667	668
	Rye-1Sep	30	233	29.9	51.9	0.5	0.5	0.0	32417	704
	Rye-Post	0	253	27.3	52.1	0.0	0.0	0.0	33000	779
	Rye-Post	30	254	26.8	52.4	0.0	0.0	0.0	32083	785
	UTC	0	242	28.6	52.3	0.0	0.0	0.0	32250	739
	UTC	30	229	29.6	52.4	0.0	0.0	0.0	31917	698
CC-C	Oat-1Sep	0	208	26.4	50.7	0.0	0.0	0.0	33000	642
CC-C	Oat-1Sep	30	222	27.2	51.9	0.0	0.0	0.0	31667	683
CC-C	Oat-Post	0	231	27.8	53.2	0.0	0.0	0.0	33333	708
CC-C	Oat-Post	30	240	26.4	52.3	0.0	0.0	0.0	32000	743
CC-C	Oat/Rye	0	235	26.8	50.5	0.0	0.0	0.0	33333	726
CC-C	Oat/Rye	30	221	28.1	52.1	0.0	0.0	0.0	31667	676
CC-C	Rye-1Sep	0	204	31.5	53.3	1.1	1.1	0.0	29000	615
CC-C	Rye-1Sep	30	219	28.5	51.2	0.0	0.0	0.0	32333	669
CC-C	Rye-Post	0	253	25.7	51.2	0.0	0.0	0.0	32333	785
CC-C	Rye-Post	30	255	26.7	52.2	0.0	0.0	0.0	31000	789
CC-C	UTC	0	234	27.0	53.5	0.0	0.0	0.0	31667	720
CC-C	UTC	30	216	27.1	50.6	0.0	0.0	0.0	30667	665

continue

Table: 1909 - 09 . Corn, Soybean and Wheat Rotation - Corn
(continued) Arlington, WI - 2019.

Rotation	Cover crop	Fertilizer	Yield bu/A	Moisture %	Test weight lbs/bu	Lodged			Harvest plants plants/A	AGI \$3.54/bu \$/A
						Total %	Stalk %	Root %		
CSW-C	Oat-1Sep	0	231	32.1	50.9	0.0	0.0	0.0	32667	690
CSW-C	Oat-1Sep	30	232	31.9	52.3	1.1	0.0	1.1	32000	696
CSW-C	Oat-Post	0	232	29.3	52.5	1.0	1.0	0.0	32667	704
CSW-C	Oat-Post	30	236	28.9	51.7	0.0	0.0	0.0	33667	720
CSW-C	Oat/Rye	0	228	30.1	51.9	0.0	0.0	0.0	32333	690
CSW-C	Oat/Rye	30	228	29.5	51.3	0.0	0.0	0.0	29000	692
CSW-C	Rye-1Sep	0	229	34.0	53.1	0.0	0.0	0.0	30667	676
CSW-C	Rye-1Sep	30	249	33.8	51.4	0.0	0.0	0.0	33000	732
CSW-C	Rye-Post	0	239	29.0	53.2	0.0	0.0	0.0	33000	726
CSW-C	Rye-Post	30	243	28.4	53.0	0.0	0.0	0.0	33000	740
CSW-C	UTC	0	231	33.1	50.6	0.0	0.0	0.0	32333	684
CSW-C	UTC	30	203	38.1	53.3	0.0	0.0	0.0	31667	596
CWS-C (e)	Oat-1Sep	0	258	26.1	52.2	0.0	0.0	0.0	32667	799
CWS-C (e)	Oat-1Sep	30	259	26.8	54.6	1.0	0.0	1.0	33000	800
CWS-C (e)	Oat-Post	0	251	27.5	54.0	0.0	0.0	0.0	33000	770
CWS-C (e)	Oat-Post	30	253	27.4	52.3	0.0	0.0	0.0	33000	779
CWS-C (e)	Oat/Rye	0	260	27.1	53.4	0.0	0.0	0.0	32000	799
CWS-C (e)	Oat/Rye	30	258	26.2	51.8	0.0	0.0	0.0	33000	798
CWS-C (e)	Rye-1Sep	0	238	26.4	51.9	1.0	1.0	0.0	33667	734
CWS-C (e)	Rye-1Sep	30	239	27.5	52.9	0.0	0.0	0.0	32000	735
CWS-C (e)	Rye-Post	0	268	27.2	52.5	0.0	0.0	0.0	33333	824
CWS-C (e)	Rye-Post	30	272	25.4	51.5	0.0	0.0	0.0	32667	845
CWS-C (e)	UTC	0	264	26.9	53.2	0.0	0.0	0.0	32333	813
CWS-C (e)	UTC	30	256	26.7	52.7	0.0	0.0	0.0	33333	790
SC-C	Oat-1Sep	0	239	27.6	53.5	1.0	0.0	1.0	31333	733
SC-C	Oat-1Sep	30	245	27.0	50.5	0.0	0.0	0.0	34000	755
SC-C	Oat-Post	0	242	26.6	52.2	0.0	0.0	0.0	32667	747
SC-C	Oat-Post	30	257	25.9	52.3	0.0	0.0	0.0	32000	798
SC-C	Oat/Rye	0	231	27.2	51.5	0.0	0.0	0.0	33333	710
SC-C	Oat/Rye	30	241	27.5	52.2	1.1	1.1	0.0	32333	739
SC-C	Rye-1Sep	0	213	29.5	51.9	0.0	0.0	0.0	33333	647
SC-C	Rye-1Sep	30	225	29.8	52.0	2.1	2.1	0.0	32333	680
SC-C	Rye-Post	0	254	27.3	51.5	0.0	0.0	0.0	33333	781
SC-C	Rye-Post	30	248	26.9	52.8	0.0	0.0	0.0	31667	765
SC-C	UTC	0	241	27.5	51.7	0.0	0.0	0.0	32667	739
SC-C	UTC	30	240	26.5	52.9	0.0	0.0	0.0	32000	740
Mean			239	28.3	52.2	0.2	0.1	0.1	32354	731

continue

Table: 1909 - 09 . Corn, Soybean and Wheat Rotation - Corn**(continued) Arlington, WI - 2019.**

Rotation	Cover crop	Fertilizer	Yield bu/A	Moisture %	Test weight lbs/bu	Lodged			Harvest plants plants/A	AGI \$3.54/bu \$/A
						Total %	Stalk %	Root %		
Mean			237	28.2	53.8	0.9	0.7	0.3	32243	691
<u>Probability(%)</u>										
Rotation (R)			0.4	10.3	19.2	79.3	79.9	79.1	11.0	0.4
Cover crop (C)			0.0	5.2	69.8	16.0	10.2	1.2	40.8	0.1
Fertilizer (F)			54.5	91.9	67.0	72.5	99.2	52.5	24.9	56.5
R x C			27.1	58.6	87.7	90.1	85.0	98.7	43.7	55.7
R x F			90.5	95.7	89.1	57.4	10.4	29.4	88.0	93.2
C x F			28.0	97.5	61.9	87.8	90.4	84.2	22.4	47.7
R x C x F			99.7	99.6	1.5	12.3	32.5	24.7	3.5	99.9
<u>LSD(0.10)</u>										
Rotation (R)			9	NS	NS	NS	NS	NS	NS	33
Cover crop (C)			9	2	NS	NS	NS	0	NS	34
Fertilizer (F)			NS	NS	NS	NS	NS	NS	NS	NS
R x C			NS	NS	NS	NS	NS	NS	NS	NS
R x F			NS	NS	NS	NS	NS	NS	NS	NS
C x F			NS	NS	NS	NS	NS	NS	NS	NS
R x C x F			NS	NS	2	NS	NS	NS	2045	NS

AGI*: Adjusted Gross Income.

**Table: 1909 - 11 . Corn, Soybean and Wheat Rotation -Soybean
Arlington, WI - 2019.**

Rotation	Cover crop	Fertilizer	Yield bu/A	Moisture %	AGI \$8.21/bu \$/A
CS-S			63.6	14.2	506.4
CSW-S (e)			72.0	14.2	572.9
CWS(L)-S			66.1	14.1	525.9
CWS-S			71.1	14.1	565.9
SS-S			51.7	14.3	411.2
	Oat-1Sep		66.1	14.2	526.0
	Oat-Post		64.9	14.2	516.3
	Oat/Rye		62.9	14.1	500.4
	Rye-1Sep		66.6	14.3	529.4
	Rye-Post		64.4	14.1	512.6
	UTC		64.6	14.2	514.0
		0	64.6	14.2	514.1
		30	65.2	14.2	518.8
CS-S	Oat-1Sep		64.5	14.3	513.3
CS-S	Oat-Post		64.3	14.1	511.8
CS-S	Oat/Rye		63.6	14.0	506.3
CS-S	Rye-1Sep		59.9	14.4	476.6
CS-S	Rye-Post		63.1	14.1	502.5
CS-S	UTC		66.3	14.1	527.8
CSW-S (e)	Oat-1Sep		75.1	14.5	597.3
CSW-S (e)	Oat-Post		69.9	14.0	556.7
CSW-S (e)	Oat/Rye		67.7	14.3	538.4
CSW-S (e)	Rye-1Sep		73.5	14.4	584.5
CSW-S (e)	Rye-Post		70.9	14.0	564.5
CSW-S (e)	UTC		74.9	14.3	595.9
CWS(L)-S	Oat-1Sep		65.6	14.1	522.0
CWS(L)-S	Oat-Post		66.4	14.2	528.4
CWS(L)-S	Oat/Rye		65.6	13.9	522.6
CWS(L)-S	Rye-1Sep		74.3	14.4	591.0
CWS(L)-S	Rye-Post		66.2	14.1	527.0
CWS(L)-S	UTC		58.4	14.0	464.5
CWS-S	Oat-1Sep		73.9	14.0	588.0
CWS-S	Oat-Post		69.3	14.3	551.0
CWS-S	Oat/Rye		65.1	14.1	518.0

continue

**Table: 1909 - 11 . Corn, Soybean and Wheat Rotation -Soybean
(continued) Arlington, WI - 2019.**

Rotation	Cover crop	Fertilizer	Yield bu/A	Moisture %	AGI \$8.21/bu \$/A
CWS-S	Rye-1Sep		75.4	14.0	600.3
CWS-S	Rye-Post		70.8	14.0	563.6
CWS-S	UTC		72.2	14.1	574.8
SS-S	Oat-1Sep		51.5	14.2	409.5
SS-S	Oat-Post		54.5	14.2	433.8
SS-S	Oat/Rye		52.4	14.3	416.7
SS-S	Rye-1Sep		49.6	14.2	394.5
SS-S	Rye-Post		51.0	14.2	405.6
SS-S	UTC		51.2	14.4	407.1
CS-S		0	62.7	14.1	498.8
CS-S		30	64.6	14.2	514.0
CSW-S (e)		0	72.8	14.3	578.8
CSW-S (e)		30	71.3	14.2	566.9
CWS(L)-S		0	65.0	14.1	517.4
CWS(L)-S		30	67.2	14.2	534.5
CWS-S		0	70.7	14.1	562.9
CWS-S		30	71.5	14.1	569.0
SS-S		0	51.9	14.3	412.5
SS-S		30	51.5	14.3	409.9
	Oat-1Sep	0	66.4	14.2	528.2
	Oat-1Sep	30	65.8	14.2	523.8
	Oat-Post	0	65.0	14.2	517.4
	Oat-Post	30	64.7	14.1	515.2
	Oat/Rye	0	61.9	14.1	492.5
	Oat/Rye	30	63.9	14.1	508.3
	Rye-1Sep	0	67.4	14.2	536.3
	Rye-1Sep	30	65.7	14.3	522.5
	Rye-Post	0	63.1	14.1	502.3
	Rye-Post	30	65.7	14.1	522.9
	UTC	0	63.8	14.2	507.7
	UTC	30	65.4	14.2	520.3
CS-S	Oat-1Sep	0	66.3	14.2	527.4
CS-S	Oat-1Sep	30	62.8	14.3	499.1
CS-S	Oat-Post	0	63.8	14.1	508.0
CS-S	Oat-Post	30	64.8	14.1	515.6

continue

**Table: 1909 - 11 . Corn, Soybean and Wheat Rotation -Soybean
(continued) Arlington, WI - 2019.**

Rotation	Cover crop	Fertilizer	Yield bu/A	Moisture %	AGI \$8.21/bu \$/A
CS-S	Oat/Rye	0	60.8	13.9	484.4
CS-S	Oat/Rye	30	66.4	14.1	528.2
CS-S	Rye-1Sep	0	60.2	14.4	478.4
CS-S	Rye-1Sep	30	59.7	14.4	474.9
CS-S	Rye-Post	0	60.6	14.1	482.0
CS-S	Rye-Post	30	65.7	14.1	522.9
CS-S	UTC	0	64.4	14.0	512.4
CS-S	UTC	30	68.2	14.1	543.1
CSW-S (e)	Oat-1Sep	0	75.4	14.5	599.5
CSW-S (e)	Oat-1Sep	30	74.8	14.4	595.2
CSW-S (e)	Oat-Post	0	72.7	14.0	578.7
CSW-S (e)	Oat-Post	30	67.1	13.9	534.6
CSW-S (e)	Oat/Rye	0	71.7	14.3	570.5
CSW-S (e)	Oat/Rye	30	63.6	14.2	506.2
CSW-S (e)	Rye-1Sep	0	75.0	14.4	596.6
CSW-S (e)	Rye-1Sep	30	72.0	14.4	572.5
CSW-S (e)	Rye-Post	0	69.5	13.9	553.5
CSW-S (e)	Rye-Post	30	72.3	14.1	575.5
CSW-S (e)	UTC	0	72.2	14.4	574.2
CSW-S (e)	UTC	30	77.6	14.3	617.6
CWS(L)-S	Oat-1Sep	0	63.3	14.1	503.8
CWS(L)-S	Oat-1Sep	30	67.9	14.1	540.3
CWS(L)-S	Oat-Post	0	65.7	14.2	522.7
CWS(L)-S	Oat-Post	30	67.1	14.3	534.0
CWS(L)-S	Oat/Rye	0	64.8	13.9	515.9
CWS(L)-S	Oat/Rye	30	66.5	13.9	529.3
CWS(L)-S	Rye-1Sep	0	72.1	14.1	573.6
CWS(L)-S	Rye-1Sep	30	76.5	14.6	608.4
CWS(L)-S	Rye-Post	0	64.8	14.1	515.8
CWS(L)-S	Rye-Post	30	67.6	14.1	538.1
CWS(L)-S	UTC	0	59.3	13.9	472.3
CWS(L)-S	UTC	30	57.4	14.1	456.7
CWS-S	Oat-1Sep	0	75.8	14.0	603.5
CWS-S	Oat-1Sep	30	71.9	14.0	572.6
CWS-S	Oat-Post	0	67.3	14.4	535.4
CWS-S	Oat-Post	30	71.2	14.2	566.5

continue

**Table: 1909 - 11 . Corn, Soybean and Wheat Rotation -Soybean
(continued) Arlington, WI - 2019.**

Rotation	Cover crop	Fertilizer	Yield bu/A	Moisture %	AGI \$8.21/bu \$/A
CWS-S	Oat/Rye	0	61.6	14.1	490.2
CWS-S	Oat/Rye	30	68.6	14.1	545.8
CWS-S	Rye-1Sep	0	79.4	14.0	632.3
CWS-S	Rye-1Sep	30	71.4	14.0	568.2
CWS-S	Rye-Post	0	69.4	14.0	552.0
CWS-S	Rye-Post	30	72.3	14.1	575.1
CWS-S	UTC	0	70.9	14.0	564.0
CWS-S	UTC	30	73.6	14.1	585.6
SS-S	Oat-1Sep	0	51.2	14.2	407.0
SS-S	Oat-1Sep	30	51.8	14.2	412.0
SS-S	Oat-Post	0	55.6	14.3	442.1
SS-S	Oat-Post	30	53.5	14.2	425.4
SS-S	Oat/Rye	0	50.5	14.4	401.6
SS-S	Oat/Rye	30	54.3	14.3	431.9
SS-S	Rye-1Sep	0	50.3	14.2	400.5
SS-S	Rye-1Sep	30	48.8	14.2	388.4
SS-S	Rye-Post	0	51.3	14.2	408.1
SS-S	Rye-Post	30	50.7	14.2	403.0
SS-S	UTC	0	52.3	14.4	415.6
SS-S	UTC	30	50.1	14.4	398.6
Mean			64.9	14.2	516.5
<u>Probability(%)</u>					
Rotation (R)			0.0	37.3	0.0
Cover crop ('C)			2.9	18.0	3.2
Fertilizer (F)			36.5	62.0	36.9
R x C			0.0	4.8	0.0
R x F			37.2	62.5	38.0
C x F			37.4	93.0	37.4
R x C x F			22.7	99.8	23.0
<u>LSD(0.10)</u>					
Rotation (R)			2.7	NS	22.2
Cover crop ('C)			1.9	NS	15.2
Fertilizer (F)			NS	NS	NS
R x C			4.5	0.3	36.3
R x F			NS	NS	NS
C x F			NS	NS	NS
R x C x F			NS	NS	NS

AGI*: Adjusted Gross Income.

**Table: 1909 - 12 . Corn, Soybean and Wheat Rotation -Wheat.
Arlington, WI - 2019.**

Rotation	Yield bu/A	Moisture %	Test weight lbs/bu	AGI \$4.69/bu \$/A
CSW-W	88	17.2	53.2	385
CWS-W	77	15.9	53.9	338
CWSL-W(s)	76	17.5	52.0	332
WW-W	--	--	--	--
Mean	80	16.9	53.1	352
<u>Probability(%)</u>				
Rotation (R)	3.4	27.3	55.6	4.7
<u>LSD(0.10)</u>				
Rotation (R)	13	NS	NS	58

AGI*: Adjusted Gross Income.

-- No wheat to harvest from the continuous wheat plots.