

**Table D-1. 20 Year Corn/Soybean Rotation Study - Corn.
Arlington, WI Experiment 2090.**

Tillage	Rotation 18th Year	Row space inches	Yield bu/A	Moisture %	Test weight lbs/bu	Broken/ lodged %	Harvest population plants/A	Ear density ears/A
		7.5	164	20.5	53	25	45326	45370
		15	169	20.3	53	7	28036	29291
		30	163	20.3	54	9	29750	30232
	cccccccccccC		155	20.6	53	13	35250	35625
	ccccssscccC		144	21.3	53	23	32818	33409
	ccccssscccC		155	21.0	53	14	33458	33875
	ccccssscccC		142	20.6	53	15	34435	35391
	cscscscscscC		194	19.9	53	5	32850	33700
	sccccsssccC		162	19.9	53	14	33182	34045
	ssccccsssC		205	19.1	55	7	33773	34136
	cccccccccccC	7.5	156	20.6	52	22	48750	48750
	cccccccccccC	15	152	20.5	53	8	26125	26875
	cccccccccccC	30	155	20.8	53	7	30875	31250
	ccccssscccC	7.5	136	21.2	52	36	49000	49000
	ccccssscccC	15	155	21.3	53	12	27000	27750
	ccccssscccC	30	142	21.5	53	24	26500	27375
	ccccssscccC	7.5	165	20.8	52	26	42750	43000
	ccccssscccC	15	151	21.0	53	8	26875	27750
	ccccssscccC	30	148	21.3	53	8	30750	30875
	ccccssscccC	7.5	143	20.4	53	29	48000	48000
	ccccssscccC	15	151	20.6	53	5	26857	29143
	ccccssscccC	30	132	20.8	54	11	27500	28250
	cscscscscscC	7.5	200	20.6	53	7	39750	39750
	cscscscscscC	15	187	19.7	52	5	30250	32125
	cscscscscscC	30	196	19.4	54	4	32000	32250
	sccccsssccC	7.5	153	20.4	52	36	45000	45000
	ccccssscccC	15	173	19.8	53	3	27750	29250
	sccccsssccC	30	161	19.4	53	7	29750	30625
	ssccccsssC	7.5	197	19.4	54	13	41000	41000
	ssccccsssC	15	209	19.1	55	5	31250	32125
	ssccccsssC	30	209	18.7	55	3	30875	31000
Conventional			180	19.3	54	14	33835	34380
No-Till			151	21.3	53	12	33590	34295
Conventional		7.5	170	19.7	53	30	45348	45435
Conventional		15	183	19.5	53	5	28607	29500
Conventional		30	186	18.7	54	9	29607	30179
No-Till		7.5	158	21.2	52	20	45304	45304
No-Till		15	156	21.0	53	8	27444	29074
No-Till		30	140	21.8	53	10	29893	30286
Conventional	cccccccccccC		178	19.3	54	15	36583	37000
Conventional	ccccssscccC		162	19.4	54	26	33273	34091
Conventional	ccccssscccC		175	19.4	53	13	33833	34167
Conventional	ccccssscccC		171	19.1	54	13	34000	34583
Conventional	cscscscscscC		198	19.8	53	5	32100	33000
Conventional	sccccsssccC		174	19.3	53	14	34000	34364
Conventional	ssccccsssC		202	19.0	54	8	32636	33091
No-Till	cccccccccccC		133	21.9	52	10	33917	34250
No-Till	ccccssscccC		126	23.3	52	20	32364	32727
No-Till	ccccssscccC		134	22.5	52	15	33083	33583
No-Till	ccccssscccC		114	22.0	52	17	34909	36273
No-Till	cscscscscscC		191	19.9	54	5	33600	34400
No-Till	sccccsssccC		151	20.5	52	13	32364	33727
No-Till	ssccccsssC		209	19.2	55	5	34909	35182

continued

Table D-1. 20 Year Corn/Soybean Rotation Study - Corn.
 (continued) **Arlington, WI Experiment 2090.**

Tillage	Rotation 18th Year	Row space inches	Yield bu/A	Moisture %	Test weight lbs/bu	Broken/ lodged %	Harvest population plants/A	Ear density ears/A
Conventional	cccccccccccC	7.5	176	19.5	53	29	49750	49750
Conventional	cccccccccccC	15	169	19.4	54	7	29250	29750
Conventional	cccccccccccC	30	187	18.9	54	8	30750	31500
Conventional	ccccsssccC	7.5	144	19.8	53	48	49333	49333
Conventional	ccccsssccC	15	174	19.9	54	8	29000	29500
Conventional	ccccsssccC	30	171	18.6	55	28	25500	27250
Conventional	ccccsssccC	7.5	174	19.7	53	30	41500	42000
Conventional	ccccsssccC	15	175	19.5	54	5	27000	27500
Conventional	ccccsssccC	30	176	19.2	53	4	33000	33000
Conventional	ccccsssccC	7.5	158	19.6	53	32	46500	46500
Conventional	ccccsssccC	15	177	19.2	54	3	27750	29000
Conventional	ccccsssccC	30	177	18.6	55	5	27750	28250
Conventional	cscscscscscC	7.5	197	20.8	52	5	41000	41000
Conventional	cscscscscscC	15	193	19.5	50	5	28500	30250
Conventional	cscscscscscC	30	203	19.1	55	6	31250	31750
Conventional	sccccsssccC	7.5	155	19.7	53	41	46000	46000
Conventional	sccccsssccC	15	181	19.8	53	3	28750	29500
Conventional	sccccsssccC	30	186	18.4	55	6	30250	30500
Conventional	ssccccssssC	7.5	189	19.3	53	17	41333	41333
Conventional	ssccccssssC	15	210	19.0	55	5	30000	31000
Conventional	ssccccssssC	30	206	18.6	55	4	28750	29000
No-Till	cccccccccccC	7.5	136	21.7	52	15	47750	47750
No-Till	cccccccccccC	15	140	21.4	53	9	23000	24000
No-Till	cccccccccccC	30	124	22.7	52	6	31000	31000
No-Till	ccccsssccC	7.5	126	23.1	51	25	48667	48667
No-Till	ccccsssccC	15	141	22.3	52	16	25000	26000
No-Till	ccccsssccC	30	112	24.5	52	19	27500	27500
No-Till	ccccsssccC	7.5	155	21.9	51	22	44000	44000
No-Till	ccccsssccC	15	128	22.4	52	11	26750	28000
No-Till	ccccsssccC	30	120	23.4	53	12	28500	28750
No-Till	ccccsssccC	7.5	129	21.2	52	26	49500	49500
No-Till	ccccsssccC	15	125	21.9	53	6	25667	29333
No-Till	ccccsssccC	30	88	23.0	53	17	27250	28250
No-Till	cscscscscscC	7.5	205	20.3	53	9	38500	38500
No-Till	cscscscscscC	15	183	19.9	54	5	32000	34000
No-Till	cscscscscscC	30	189	19.6	54	3	32750	32750
No-Till	sccccsssccC	7.5	150	21.2	52	31	44000	44000
No-Till	sccccsssccC	15	165	19.8	53	4	26750	29000
No-Till	sccccsssccC	30	137	20.5	52	8	29250	30750
No-Till	ssccccssssC	7.5	206	19.5	54	10	40667	40667
No-Till	ssccccssssC	15	209	19.2	55	5	32500	33250
No-Till	ssccccssssC	30	212	18.8	55	1	33000	33000
Mean			165	20.3	53	13	33713	34338
Probability%								
Tillage (T)			0.7	0.2	4.7	42.9	90.5	81.9
Rotation (R)			0.0	0.0	0.1	0.1	98.5	97.8
T x R			0.0	0.0	0.7	56.0	87.6	84.1
Row Spacing (S)			6.4	24.5	0.0	0.0	0.0	0.0
T x S			0.0	0.0	1.4	5.8	84.6	99.4
R x S			0.5	41.1	70.1	52.0	4.4	3.2
T x R x S			41.9	21.8	22.2	98.1	94.7	97.0
LSD 10%								
Tillage (T)			26	1.2	2	NS	NS	NS
Rotation (R)			12	0.8	1	7	NS	NS
T x R			26	1.4	2	NS	NS	NS
Row Spacing (S)			8	NS	1	7	3140	3101
T x S			26	1.3	2	13	NS	NS
R x S			20	NS	NS	NS	7733	7607
T x R x S			NS	NS	NS	NS	NS	NS
CV%								
			9	5	2	103	17	16

**Table D-8. 4 Year Corn/Soybean Rotation Study - Corn.
Arlington, WI Experiment 2091.**

Tillage	Rotation	Yield bu/A	Moisture %	Test weight lbs/bu	Broken/ lodged %	Harvest population plants/A	Ear density ears/A
	ccccccC	159	20.3	54	4	30375	30375
	cscscC	180	18.9	54	3	31875	31875
	cscscsC	196	18.2	56	3	30750	30750
	sccccC	179	18.7	55	5	30375	30375
	sccscC	168	19.2	55	5	30125	30250
	wccccC	172	19.1	54	3	30167	30167
	wscscC	196	18.5	55	3	30875	31125
	wscscsC	202	18.1	55	6	31500	31500
Conventional		195	18.3	56	7	30774	30806
No-Till		168	19.4	54	1	30774	30839
Conventional	ccccccC	191	18.4	55	8	32500	32500
Conventional	cscscC	194	18.5	55	5	32000	32000
Conventional	cscscsC	197	18.1	56	6	30750	30750
Conventional	sccccC	198	18.1	56	8	30750	30750
Conventional	sccscC	193	18.6	57	9	29750	30000
Conventional	wccccC	196	18.2	56	4	29333	29333
Conventional	wscscC	189	18.8	55	5	31000	31000
Conventional	wscscsC	205	18.0	55	11	29750	29750
No-Till	ccccccC	126	22.3	53	0	28250	28250
No-Till	cscscC	166	19.2	53	2	31750	31750
No-Till	cscscsC	196	18.4	55	1	30750	30750
No-Till	sccccC	161	19.4	54	3	30000	30000
No-Till	sccscC	143	19.8	54	1	30500	30500
No-Till	wccccC	148	20.0	53	1	31000	31000
No-Till	wscscC	202	18.2	56	1	30750	31250
No-Till	wscscsC	200	18.3	55	2	33250	33250
Mean		182	18.9	55	4	30774	30823
Probability%							
Tillage (T)		4.0	0.5	2.2	1.7	88.6	85.8
Rotation (R)		0.0	1.8	9.4	67.1	90.4	91.9
T x R		0.0	2.6	22.6	67.4	27.5	31.0
LSD 10%							
Tillage (T)		13	0.3	1	2	NS	NS
Rotation (R)		13	1.0	1	NS	NS	NS
T x R		18	1.4	NS	NS	NS	NS
CV%		9	6	3	101	9	9