

**Table D-1. 20 Year Corn/Soybean Rotation Study - Corn.  
Arlington, WI Experiment 9990.**

Tillage	Rotation 17th Year	Row space	Yield bu/A	Moisture %	Test weight lbs/bu	Broken/ lodged %	Final population plants/A
		7.5	145	17.8	57.4	1.3	27768
		15	187	16.5	57.6	0.6	29750
		30	202	16.5	58.5	1.5	31357
	ccccccccccC		174	16.8	57.6	0.5	28625
	ccccsssccC		172	17.2	58.0	2.3	29042
	ccccsssccC		169	17.5	57.7	0.8	29625
	ccccsssccC		166	17.0	57.3	1.5	29792
	ccsssscccC		176	17.2	57.4	0.6	29625
	sccccssccC		193	16.1	58.4	1.4	30625
	scscscscscC		199	16.4	58.2	0.8	30042
	ccccccccccC	7.5	137	17.3	57.4	0.4	23875
	ccccccccccC	15	178	16.7	57.2	0.4	30750
	ccccccccccC	30	198	16.5	58.1	0.8	31250
	ccccsssccC	7.5	124	18.4	57.3	3.2	26375
	ccccsssccC	15	188	16.6	57.9	0.4	30750
	ccccsssccC	30	205	16.5	58.7	3.3	30000
	ccccsssccC	7.5	125	19.1	57.3	1.6	26875
	ccccsssccC	15	182	16.7	57.3	0.4	30000
	ccccsssccC	30	200	16.8	58.6	0.4	32000
	ccsssscccC	7.5	134	18.3	56.5	1.3	29625
	ccsssscccC	15	171	16.3	57.4	0.5	28000
	ccsssscccC	30	193	16.6	58.0	2.8	31750
	ccsssscccC	7.5	145	18.2	56.9	1.9	27375
	ccsssscccC	15	187	16.8	57.1	0.0	30500
	ccsssscccC	30	196	16.6	58.3	0.0	31000
	sccccssccC	7.5	170	16.5	58.2	0.5	30875
	sccccssccC	15	198	15.8	58.3	1.3	29500
	sccccssccC	30	212	16.0	58.8	2.4	31500
	scscscscscC	7.5	179	16.5	58.0	0.3	29375
	scscscscscC	15	205	16.4	58.1	0.8	28750
	scscscscscC	30	218	16.3	58.7	1.2	32000
Conventional			179	16.5	58.2	1.7	29369
No-Till			177	17.3	57.5	0.6	29881
Conventional		7.5	150	17.0	57.9	2.2	28321
Conventional		15	187	16.2	57.8	0.7	28643
Conventional		30	202	16.2	58.8	2.1	31143
No-Till		7.5	140	18.6	56.8	0.5	27214
No-Till		15	188	16.7	57.5	0.4	30857
No-Till		30	203	16.7	58.1	1.0	31571
Conventional	ccccccccccC		175	16.5	57.8	0.8	28917
Conventional	ccccsssccC		175	16.5	58.6	3.3	28750
Conventional	ccccsssccC		169	16.8	58.2	1.6	30667
Conventional	ccsssscccC		172	16.5	57.9	2.3	29250
Conventional	ccsssscccC		180	16.5	57.9	1.0	29583
Conventional	sccccssccC		191	16.4	58.3	1.7	30167
Conventional	scscscscscC		193	16.2	58.4	1.0	28250
No-Till	ccccccccccC		172	17.2	57.4	0.3	28333
No-Till	ccccsssccC		169	17.9	57.4	1.4	29333
No-Till	ccccsssccC		168	18.2	57.3	0.0	28583
No-Till	ccsssscccC		160	17.6	56.7	0.7	30333
No-Till	ccsssscccC		172	17.9	56.9	0.3	29667
No-Till	sccccssccC		195	15.9	58.6	1.1	31083
No-Till	scscscscscC		205	16.6	58.1	0.5	31833

continued

**Table D-1. 20 Year Corn/Soybean Rotation Study - Corn.  
Arlington, WI Experiment 9990.**

Tillage	Rotation 17th Year	Row space	Yield	Moisture	Test weight	Broken/ lodged	Final population
			bu/A	%	lbs/bu	%	plants/A
Conventional	ccccccccccC	7.5	144	16.9	57.3	0.0	25750
Conventional	ccccccccccC	15	181	16.4	57.4	0.9	29500
Conventional	ccccccccccC	30	200	16.3	58.5	1.6	31500
Conventional	ccccssssscC	7.5	133	17.1	58.6	6.5	26750
Conventional	ccccssssscC	15	188	16.2	58.2	0.0	30000
Conventional	ccccssssscC	30	203	16.1	58.8	3.4	29500
Conventional	ccccssssccC	7.5	130	17.9	58.0	3.2	31000
Conventional	ccccssssccC	15	180	16.2	57.5	0.8	28000
Conventional	ccccssssccC	30	198	16.3	59.0	0.7	33000
Conventional	cccscssscccC	7.5	147	17.2	57.6	2.5	30250
Conventional	cccscssscccC	15	176	16.0	57.7	1.0	27500
Conventional	cccscssscccC	30	194	16.2	58.5	3.4	30000
Conventional	ccssssccccC	7.5	152	16.8	57.4	3.0	29250
Conventional	ccssssccccC	15	190	16.5	57.4	0.0	29000
Conventional	ccssssccccC	30	197	16.1	59.0	0.0	30500
Conventional	sccccsssssC	7.5	170	16.8	58.1	0.0	29000
Conventional	sccccsssssC	15	195	16.1	58.1	1.7	30000
Conventional	sccccsssssC	30	209	16.3	58.8	3.3	31500
Conventional	scscscscscC	7.5	171	16.2	58.2	0.0	26250
Conventional	scscscscscC	15	197	16.3	58.2	0.8	26500
Conventional	scscscscscC	30	216	16.1	59.0	2.3	32000
No-Till	ccccccccccC	7.5	122	18.1	57.6	0.8	22000
No-Till	ccccccccccC	15	175	17.1	57.0	0.0	32000
No-Till	ccccccccccC	30	196	16.8	57.7	0.0	31000
No-Till	ccccssssscC	7.5	114	19.7	56.0	0.0	26000
No-Till	ccccssssscC	15	188	17.0	57.7	0.8	31500
No-Till	ccccssssscC	30	207	16.9	58.5	3.2	30500
No-Till	ccccssssccC	7.5	120	20.3	56.6	0.0	22750
No-Till	ccccssssccC	15	183	17.2	57.1	0.0	32000
No-Till	ccccssssccC	30	201	17.3	58.2	0.0	31000
No-Till	cccscssscccC	7.5	121	19.4	55.5	0.0	29000
No-Till	cccscssscccC	15	167	16.6	57.0	0.0	28500
No-Till	cccscssscccC	30	192	16.9	57.6	2.2	33500
No-Till	ccssssccccC	7.5	138	19.5	56.4	0.9	25500
No-Till	ccssssccccC	15	185	17.2	56.8	0.0	32000
No-Till	ccssssccccC	30	194	17.1	57.7	0.0	31500
No-Till	sccccsssssC	7.5	169	16.3	58.3	1.0	32750
No-Till	sccccsssssC	15	202	15.5	58.5	0.9	29000
No-Till	sccccsssssC	30	215	15.8	58.8	1.5	31500
No-Till	scscscscscC	7.5	186	16.8	57.8	0.7	32500
No-Till	scscscscscC	15	213	16.5	58.0	0.8	31000
No-Till	scscscscscC	30	220	16.5	58.5	0.0	32000
Mean			178	16.9	57.8	1.1	29625
<b>Probability%</b>							
Tillage (T)			13.2	0.1	1.3	3.6	40.4
Rotation (R)			0.0	0.8	0.0	19.6	55.8
T x R			30.1	0.3	0.8	91.0	21.8
Row Spacing (S)			0.0	0.0	0.0	12.7	0.0
T x S			20.6	0.3	9.0	43.5	4.0
R x S			5.3	1.5	55.6	50.3	2.8
T x R x S			99.6	90.5	34.8	40.3	5.5
<b>LSD 10%</b>							
Tillage (T)			NS	0.1	0.3	0.7	NS
Rotation (R)			8	0.6	0.3	NS	NS
T x R			NS	0.6	0.6	NS	NS
Row Spacing (S)			10	0.3	0.2	NS	1072
T x S			NS	0.3	0.4	NS	1729
R x S			15	0.8	NS	NS	2879
T x R x S			NS	NS	NS	NS	3993
<b>CV%</b>			10	5	1	234	11

**Table D-3. 20 Year Corn/Soybean/Wheat Rotation Study - Corn.  
Arlington, WI Experiment 9991.**

Tillage	Rotation	Yield bu/A	Moisture %	Test weight lbs/bu	Broken/ lodged %	Final population plants/A
	ccccccC	202	17.3	58.3	3.5	32000
	cscsccC	210	16.8	58.9	3.4	33750
	cscscsC	218	17.0	58.7	2.8	34500
	sccsccC	189	17.6	57.7	3.6	30500
	swccccC	203	16.9	58.5	1.0	32333
	wcscsC	212	17.2	58.4	3.1	33250
	wscsccC	206	16.8	58.6	1.4	31750
	wwccsC	203	17.6	58.1	4.8	30500
Conventional		198	16.9	58.6	3.9	33742
No-Till		213	17.4	58.1	2.1	30903
Conventional	ccccccC	190	16.8	59.0	4.8	32500
Conventional	cscsccC	201	16.8	58.9	5.2	35000
Conventional	cscscsC	206	17.1	58.6	2.1	33500
Conventional	sccsccC	189	16.7	58.4	7.3	34000
Conventional	swccccC	189	16.9	58.6	2.0	34667
Conventional	wcscsC	204	17.0	58.7	3.0	33500
Conventional	wscsccC	205	16.5	59.0	1.3	34000
Conventional	wwccsC	199	17.4	58.0	5.0	33000
No-Till	ccccccC	213	17.8	57.5	2.2	31500
No-Till	cscsccC	218	16.8	58.9	1.6	32500
No-Till	cscscsC	229	16.9	58.8	3.6	35500
No-Till	sccsccC	190	18.5	56.9	0.0	27000
No-Till	swccccC	218	16.8	58.5	0.0	30000
No-Till	wcscsC	220	17.4	58.0	3.2	33000
No-Till	wscsccC	208	17.1	58.1	1.5	29500
No-Till	wwccsC	206	17.7	58.2	4.5	28000
Mean		205	17.1	58.4	3.0	32323
<b>Probability%</b>						
Tillage (T)		0.2	0.8	1.2	3.6	0.3
Rotation (R)		11.9	8.2	6.1	51.6	24.1
T x R		66.1	7.3	15.0	24.7	24.2
<b>LSD 10%</b>						
Tillage (T)		8	0.3	0.3	1.4	1494
Rotation (R)		NS	0.5	0.6	NS	NS
T x R		NS	0.7	NS	NS	NS
<b>CV%</b>						
		9	4	1	112	11