

**Table D-1. 20 Year Corn/Soybean Rotation Study - Corn.
Arlington, WI Experiment 9790.**

Tillage	Rotation 15th Year	Seeding	Final	Broken/ Lodged	Yield	Moisture	Test
		Rate x 1000	Population plants/A	%	bu/A	%	Wt lbs/bu
		25	27863	17.1	145.9	23.2	52
		30	30080	24.1	149.5	23.3	52
		35	33627	28.2	155.9	23.5	53
	cccccccccC		29476	17.5	146.8	23.0	52
	ccccsssssC		31490	4.8	158.1	22.6	53
	ccccsssscC		30510	37.4	147.8	23.6	52
	ccsssscccC		30764	41.7	142.2	24.4	53
	ccsssscccC		29566	24.1	145.6	23.7	53
	cscscscscC		31962	9.5	164.2	23.0	52
	cssssccccC		29893	26.9	148.3	23.0	53
	cccccccccC	25	25918	10.1	152.7	23.8	53
	cccccccccC	30	30601	18.2	138.7	22.0	51
	cccccccccC	35	31908	24.0	149.1	23.1	53
	ccccsssssC	25	28750	4.5	152.7	21.9	52
	ccccsssssC	30	32017	6.2	151.9	23.3	53
	ccccsssssC	35	33705	3.7	169.7	22.7	53
	ccccsssscC	25	28750	34.8	144.7	23.4	52
	ccccsssscC	30	27443	28.5	148.2	23.7	52
	ccccsssscC	35	35338	48.9	150.5	23.9	52
	ccsssscccC	25	29076	24.9	136.7	24.0	53
	ccsssscccC	30	29784	49.7	141.6	24.6	52
	ccsssscccC	35	33432	50.5	148.4	24.8	52
	ccsssscccC	25	26572	18.0	139.1	24.1	52
	ccsssscccC	30	28205	22.0	152.2	23.4	53
	ccsssscccC	35	33922	32.2	145.4	23.7	52
	cscscscscC	25	29403	4.9	151.1	22.3	53
	cscscscscC	30	31635	19.3	160.7	23.4	52
	cscscscscC	35	34848	4.4	180.7	23.4	53
	cssssccccC	25	26572	22.2	144.0	23.2	52
	cssssccccC	30	30873	24.8	153.3	23.0	52
	cssssccccC	35	32234	33.8	147.6	22.9	53
Conventional			29642	20.6	148.6	23.2	53
No-Till			31405	25.7	152.3	23.4	52
Conventional		25	26712	18.2	144.0	23.1	52
Conventional		30	29434	18.7	149.0	23.3	52
Conventional		35	32779	24.7	152.7	23.4	53
No-Till		25	29014	15.9	147.7	23.4	52
No-Till		30	30725	29.5	150.1	23.4	52
No-Till		35	34475	31.7	159.2	23.6	53
Conventional	cccccccccC		28278	18.3	142.7	23.0	52
Conventional	ccccsssssC		30129	5.3	161.1	22.5	53
Conventional	ccccsssscC		30528	32.9	148.9	22.9	53
Conventional	ccsssscccC		30020	38.4	140.7	24.3	53
Conventional	ccsssscccC		29476	21.1	142.9	24.0	52
Conventional	cscscscscC		30311	6.8	156.5	22.3	53
Conventional	cssssccccC		28750	21.1	147.1	23.7	53
No-Till	cccccccccC		30674	16.6	150.9	22.9	52
No-Till	ccccsssssC		32852	4.3	155.2	22.8	53
No-Till	ccccsssscC		30492	41.9	146.7	24.4	52
No-Till	ccsssscccC		31508	45.0	143.8	24.6	52
No-Till	ccsssscccC		29657	27.1	148.2	23.4	53
No-Till	cscscscscC		33614	12.2	171.9	23.8	52
No-Till	cssssccccC		31037	32.8	149.5	22.4	53

continued

**Table D-1. 20 Year Corn/Soybean Rotation Study - Corn.
Arlington, WI Experiment 9790.**

Tillage	Rotation 15th Year	Seeding Rate x 1000	Final Population plants/A	Broken/ Lodged %	Yield bu/A	Moisture %	Test Wt lbs/bu
Conventional	cccccccccC	25	23849	13.0	149.7	23.3	53
Conventional	cccccccccC	30	30056	18.5	139.4	21.9	51
Conventional	cccccccccC	35	30928	23.5	139.1	23.9	52
Conventional	ccccsssssC	25	26136	5.6	154.6	20.9	52
Conventional	ccccsssssC	30	32234	7.0	154.8	23.7	53
Conventional	ccccsssssC	35	32017	3.3	173.7	22.8	53
Conventional	ccccsssscC	25	28532	42.1	139.7	22.4	52
Conventional	ccccsssscC	30	25265	18.4	150.5	23.2	53
Conventional	ccccsssscC	35	37788	38.3	156.5	23.2	53
Conventional	cccssscccC	25	27770	25.8	137.7	23.9	53
Conventional	cccssscccC	30	29403	36.6	137.4	24.7	52
Conventional	cccssscccC	35	32888	52.8	147.0	24.3	53
Conventional	ccsssccccC	25	27007	18.7	139.6	24.6	52
Conventional	ccsssccccC	30	27552	23.2	149.9	23.5	53
Conventional	ccsssccccC	35	33868	21.3	139.2	24.0	52
Conventional	cscscscscC	25	27987	5.5	144.4	21.9	53
Conventional	cscscscscC	30	31145	10.2	154.4	22.4	53
Conventional	cscscscscC	35	31799	4.8	170.7	22.7	53
Conventional	csssccccC	25	25700	16.9	142.4	24.6	52
Conventional	csssccccC	30	30383	17.1	156.5	23.5	52
Conventional	csssccccC	35	30165	29.3	142.5	23.0	53
No-Till	cccccccccC	25	27987	7.2	155.7	24.3	52
No-Till	cccccccccC	30	31145	17.9	138.0	22.1	52
No-Till	cccccccccC	35	32888	24.5	159.0	22.4	53
No-Till	ccccsssssC	25	31363	3.4	150.8	23.0	53
No-Till	ccccsssssC	30	31799	5.4	149.1	22.8	53
No-Till	ccccsssssC	35	35393	4.1	165.7	22.5	53
No-Till	ccccsssscC	25	28967	27.5	149.7	24.3	51
No-Till	ccccsssscC	30	29621	38.6	145.9	24.2	52
No-Till	ccccsssscC	35	32888	59.5	144.5	24.6	52
No-Till	cccssscccC	25	30383	24.1	135.6	24.1	53
No-Till	cccssscccC	30	30165	62.8	145.9	24.4	53
No-Till	cccssscccC	35	33977	48.2	149.8	25.2	52
No-Till	ccsssccccC	25	26136	17.3	138.7	23.6	52
No-Till	ccsssccccC	30	28859	20.9	154.5	23.3	53
No-Till	ccsssccccC	35	33977	43.1	151.6	23.3	53
No-Till	cscscscscC	25	30819	4.2	157.8	22.8	52
No-Till	cscscscscC	30	32126	28.4	167.1	24.4	51
No-Till	cscscscscC	35	37897	3.9	190.8	24.1	52
No-Till	csssccccC	25	27443	27.4	145.7	21.9	52
No-Till	csssccccC	30	31363	32.5	150.2	22.5	52
No-Till	csssccccC	35	34304	38.4	152.7	22.8	54
Mean			30523	23.1	150.4	23.3	52
Probability%							
Tillage (T)			0.1	2.0	18.1	33.3	71.3
Rotation (R)			7.1	0.0	44.8	0.0	40.2
T x R			49.5	61.9	51.3	0.6	24.3
Seeding Rate (S)			0.0	0.0	1.5	65.0	35.2
T x S			71.6	4.3	73.3	87.9	98.0
R x S			16.9	2.6	25.7	22.8	25.8
T x R x S			23.3	28.3	97.4	31.1	92.7
LSD 10%							
Tillage (T)			5427	15.8	NS	NS	NS
Rotation (R)			1945	27.8	NS	1.3	NS
Seeding Rate (S)			7755	15.1	13.6	NS	NS
CV%			11	61	12	6	2

**Table D-3. 20 Year Corn/Soybean/Wheat Rotation Study - Corn.
Arlington, WI Experiment 9691.**

Tillage	Rotation	Final Population plants/A	Broken/ Lodged %	Yield bu/A	Moist %	Test Wt. lbs/bu
	ccccC	19820	5.5	169.1	26.4	51
	cswccC			176.3	26.2	52
	cswcsC	22942	4.4	198.1	25.1	53
	scscsC			184.6	25.3	53
	scwscC	21562	6.2	181.6	24.9	52
	swcscC	20582	6.5	178.1	26.7	52
	wcscC	22869	7.5	170.3	25.3	51
	wscsC			193.6	26.4	52
Conventional		22361	5.8	184.5	24.9	52
No-Till		21432	5.7	179.1	26.6	52
Conventional	ccccC			175.5	25.2	52
Conventional	cswccC			181.2	25.2	53
Conventional	cswcsC	22216	5.7	202.3	24.6	53
Conventional	scscsC			184.4	24.7	52
Conventional	scwscC			185.5	24.2	53
Conventional	swcscC	21998	4.0	179.0	25.4	52
Conventional	wcscC	22869	7.5	175.5	24.2	52
Conventional	wscsC			190.4	25.8	53
No-Till	ccccC	19820	5.5	162.7	27.6	50
No-Till	cswccC			171.4	27.2	52
No-Till	cswcsC	23305	3.8	193.8	25.7	52
No-Till	scscsC			184.9	25.8	54
No-Till	scwscC	21562	6.2	177.6	25.6	52
No-Till	swcscC	19166	9.1	177.2	28.1	52
No-Till	wcscC			165.2	26.4	50
No-Till	wscsC			196.8	27.0	51
Mean		21780	5.7	181.8	25.8	52
Probability%						
Tillage (T)		0.0	29.2	1.0	0.0	43.8
Rotation (R)		40.4	6.5	0.0	0.1	55.7
T x R		0.0	39.4	25.0	25.3	54.3
LSD 10%						
Tillage (T)		0.0	2.2	16.9	5.4	NS
Rotation (R)		NS	2.7	20.8	1.3	NS
CV%						
		7	54	6	5	6