

Table 1. Soybean yields under a corn-soybean and corn-corn-soybean rotations at the ISU Northern Research Farm. Yields are corrected to 13.0% for soybeans.

	Soybean (c/ <u>S</u>)						Soybean (c-c- <u>S</u>)		
	2003	2004	2005	2006	2007	2008	2003	2006	2009
	-----bushels/acre-----								
No-tillage	38.2	56.5	54.6	63.2	56.1	45.2	37.4	63.4	46.4
Strip-tillage	38.0	57.8	54.1	59.9	56.3	44.8	34.9	53.4	48.1
Deep rip	39.4	57.1	53.1	57.9	58.8	46.6	38.9	59.4	58.2
Chisel plow	39.9	56.8	52.2	59.7	56.5	45.2	37.5	60.5	56.5
Moldboard plow	40.7	57.8	53.5	57.4	56.7	46.0	39.3	60.3	59.1
LSD _(0.05) ^a	3.7	4.4	3.5	3.4	8.4	2.9	2.4	12	7.3
5-tillage avg.	39.2	57.2	53.5	59.6	56.88	45.6	37.6	59.4	53.7

^aLeast significant differences (LSD_(0.05)) are based on a Fisher test. Yield differences greater than the least significant difference are statistically different.

Table 2. Corn yields under a corn-soybean and continuous corn rotations at the ISU Northern Research Farm. Yields are corrected to 15.5% for corn.

	Corn (<u>C</u> /s)					C/c	
	2003	2004	2005	2006	2009	2008	2009
	-----bushels/acre-----						
No-tillage	187.7	172.4	136.6	189.1	181.8	175.9	141.9
Strip-tillage	191.7	181.1	146.0	188.2	180.7	179.5	145.8
Deep rip	190.7	188.8	181.3	191.1	204.2	172.1	164.8
Chisel plow	198.3	192.2	189.2	190.9	200.0	172.2	170.1
Moldboard plow	196.7	191.2	188.5	196.0	206.1	168.4	167.2
LSD _(0.05) ^a	32.2	11.2	24.7	9.3	23.3	20.9	25.6
5-tillage avg.	193.0	185.1	168.3	191.1	194.6	173.6	158.0

^aLeast significant differences (LSD_(0.05)) are based on a Fisher test. Yield differences greater than the least significant difference are statistically different.

Table 3. Corn yields under a corn-corn-soybean rotation at the ISU Northern Research Farm. Yields are corrected to 15.5% for corn.

	Corn (<u>C</u> -c-s)		Corn (c- <u>C</u> -s)	
	2004	2007	2005	2008
	-----bushels/acre-----			
No-tillage	174.1	172.8	214.0	144.8
Strip-tillage	192.3	177.7	220.1	149.4
Deep rip	188.5	196.8	223.2	141.9
Chisel plow	198.6	221.9	218.3	146.0
Moldboard plow	200.9	208.3	232.0	136.7
LSD _(0.05) ^a	14.5	47.2	9.7	18.7
5-tillage avg.	190.9	191.94	221.5	143.8

^aLeast significant differences (LSD_(0.05)) are based on a Fisher test. Yield differences greater than the least significant difference are statistically different.