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Wheat-Pea Tillage Trial, Wheat 2001					Dickinson, ND		
	Soil Moisture	Plant Stand	Tillers per Plant	Growth Stage	Days to Head	Spike Count	Residue
	feet	plants/acre		leaves		spikes/acre	%
Tillage							
Conventional	1.3	558,922	3.2	8.8	64	1,278,259	21
Reduced	1.4	690,493	3.9	9.3	63	1,619,837	33
None	2.1	962,237	2.7	8.9	63	1,804,542	94
F-test	*	*	NS	NS	NS	*	*
Rotation							
Wheat/Pea	1.5	739,157	3.4	9.0	63	1,600,776	41
Wheat/Wheat	1.7	735,277	3.0	9.0	63	1,534,316	58
F-test	NS	NS	NS	NS	NS	NS	*
Trial Mean	1.6	737,217	3.2	9.0	63	1,567,546	49
C.V.%	21.3	12.3	24.6	9.7	3.4	9.4	14

* = significant at the P<.05 level

NS = not significant

Wheat-Pea Tillage Trial, Wheat 2001				Dickinson, ND		
	Plant Height	Yield	Test Weight	Protein	Seeds per Pound	Returns
	inches	bu/ac	lbs/bu	%		\$/ac

	inches	bu/ac	lb/acre	%		\$/ac
Tillage						
Conventional	34	46.5	56.8	15.5	16,020	131.71
Reduced	34	47.0	57.3	15.2	17,327	133.23
None	35	55.9	58.8	14.3	16,677	151.38
F-test	NS	*	*	*	NS	NS
Rotation						
Wheat/Pea	35	53.7	57.9	15.0	16,391	149.10
Wheat/Wheat	33	45.9	57.3	15.0	16,958	128.45
F-test	*	*	NS	NS	NS	*
Trial Mean	34	49.8	57.6	15.0	16,675	138.78
C.V. %	2.6	8.5	1.7	2.7	5.5	10.5

* = significant at the P<.05 level

NS = not significant

Wheat-Pea Tillage Trial, Pea 2001				Dickinson, ND			
	Height	Test Weight	Crude Protein	Grain Yield		Returns	2 Year Average
				2000	2001		
	in	lbs/bu	%	lbs/ac		\$/ac	lbs/ac
Tillage							
Conventional	26.8	62.9	25.8	2,035	2,761	92.05	2,398
Reduced	25.5	62.1	25.3	2,611	2,762	92.05	2,687
None	26.5	62.8	25.1	3,472	3,011	100.37	3,242
Trial Mean	26.2	62.6	25.4	2,706	2,845	94.82	2,775
C.V. %	13.6	1.2	1.4	11.5	9.8	9.8	--

LSD .05	NS	NS	NS	539	NS	NS	--
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NS = not significant

Returns calculated using market value of \$2.00/bu

Wheat-Pea Tillage Trial, Pea 2001				Dickinson, ND		
	Seeds per Pound	Soil Moisture	Residue Cover	Plant Count	Days to Flower	Flower Duration
		feet	%	plants/acre		days
Tillage						
Conventional	2,058	1.6	26	233,791	59	14
Reduced	2,046	1.6	58	264,153	58	15
None	2,050	2.4	93	260,105	60	14
Trial Mean	2,051	1.9	59	252,683	58.8	14.3
C.V. %	10.7	17.4	12.3	13.5	1.6	6.3
LSD .05	NS	0.6	12	NS	NS	NS

NS = not significant

Wheat-Canola Tillage Trial, Wheat 2001				Dickinson, ND			
	Soil Moisture	Plant Stand	Tillers per plant	Growth Stage	Days to Head	Spike Count	Residue
	feet	plants/acre		leaves		spikes/acre	%
Tillage							
Conventional	1.1	556,139	3.0	9.3	65	1,493,832	11
Reduced	1.6	659,371	3.8	9.1	63	1,523,869	29

None	1.8	870,896	2.6	9.3	61	1,727,623	88
F-test	*	*	NS	NS	NS	NS	*
Rotation							
Wheat/Canola	1.5	702,891	3.0	9.3	63	1,586,269	34
Wheat/Wheat	1.6	688,047	3.3	9.2	63	1,577,161	52
F-test	NS	NS	NS	NS	NS	NS	*
Trial Mean	1.5	695,469	3.1	9.2	63	1,581,715	43
C.V.%	17.8	18.0	31.9	5.1	2.5	18.4	18.1

* = significant at the P<.05 level

NS = not significant

Wheat-Canola Tillage Trial, Wheat 2001					Dickinson, ND	
	Plant Height	Yield	Test Weight	Protein	Seeds per Pound	Returns
	inches	bu/ac	lbs/bu	%		\$/ac
Tillage						
Conventional	32	37.6	56.8	16.3	17,066	108.31
Reduced	33	44.3	57.2	15.4	16,986	125.94
None	33	44.9	58.3	14.9	17,304	125.14
F-test	NS	NS	*	*	NS	NS
Rotation						
Wheat/Canola	33	42.2	57.5	15.6	16,970	119.74
Wheat/Wheat	33	42.3	57.3	15.4	17,267	119.85
F-test	NS	NS	NS	NS	NS	NS

Trial Mean	24	42.3	57.4	15.5	17,119	119.79
C.V. %	2.3	10.9	2.0	2.3	7.3	11.5

* = significant at the P<.05 level

NS = not significant

Wheat-Canola Tillage Trial, Canola 2001					Dickinson, ND	
	Residue Cover	Test Weight	Oil @ 8.5% Moisture	Grain Yield		2 Year Average
				2000	2001	
	%	lbs/bu	%	lbs/ac		lbs/ac
Tillage						
Conventional	16	46.3	43.3	391	926	659
Reduced	39	46.2	43.9	638	999	819
None	85	47.6	44.2	860	1117	989
Trial Mean	47	46.7	43.8	630	1014	822
C.V. %	35.2	4.3	2.9	23.8	20.2	--
LSD .05	28	NS	NS	NS	NS	--

NS = not significant

Wheat-Canola Tillage Trial, Canola 2001				Dickinson, ND	
	Seeds per Pound	Soil Moisture	Days to Flower	Flower Duration	Plant Count
		feet		days	plants/acre
Tillage					

Conventional	142,028	1.4	55	21	400,278
Reduced	142,218	1.3	53	22	268,202
None	143,841	1.8	50	24	248,466
Trial Mean	142,696	2	53	22	305,649
C.V. %	6.8	21.3	2.1	9.0	29.5
LSD .05	NS	NS	2	NS	NS

NS = not significant

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