



***Agro-Tech, Inc.
Public Research
Trials***

2007



AGRO-TECH
RESEARCH FARM



Public Barley Yield Trial Mohall, ND 2007



		Yield		Agronomics													
Variety	Row	bu/ac	Rank	Moisture		Test Weight		Protein		Plump		Thin		Stem Breakage		Height	
				%	Rank	lb	Rank	%	Rank	%	Rank	%	Rank	*1-9	Rank	Inch	Rank
Lacey	6	112.5	1	13.0	6	48.5	2	13.8	5	87.4	3	1.3	1	3.3	5	37.3	3
Legacy	6	111.5	2	12.6	2	46.7	8	13.6	3	81.5	10	2.1	6	3.3	6	38.5	6
Drummond	6	109.4	3	12.9	4	47.7	5	13.9	6	82.7	8	1.7	4	4.0	9	39.3	9
Stellar-ND	6	106.7	4	12.3	1	46.3	9	13.5	2	86.7	4	1.4	2	4.0	8	36.8	2
Tradition	6	106.6	5	12.9	5	47.9	3	13.6	4	85.5	5	1.5	3	2.3	4	38.8	8
Robust	6	103.4	6	13.2	7	47.8	4	14.1	9	84.7	6	1.7	5	4.7	10	39.3	10
Rawson	2	99.2	7	14.8	10	47.0	7	13.1	1	93.3	1	3.3	8	1.0	1	38.5	7
CDC Copeland	2	96.6	8	12.7	3	45.3	10	14.0	7	82.3	9	8.3	10	2.0	3	37.8	5
Conlon	2	95.4	9	13.8	9	49.9	1	14.0	8	92.7	2	3.2	7	4.0	7	36.5	1
AC Metcalfe	2	93.9	10	13.6	8	47.2	6	14.3	10	83.8	7	6.8	9	2.0	2	37.3	4
LSD (P=.05)		6.28		0.37		0.96		0.33		3.72		1.44		1.39		1.76	
Standard Deviation		4.33		0.26		0.66		0.23		2.56		0.99		0.81		1.21	
CV		4.18		2.51		1.39		1.67		2.98		31.95		26.40		3.20	
Grand Mean		103.52		13.16		47.42		13.77		86.04		3.11		3.07		37.98	
* 1 = best & 9 = worst																	

		Comments
Seeding Type	Zero-Till	
Location	Mohall, ND - Renville County	
Plot size	5 ft x 25 ft - 4 replicates	
Planting Date	May 3rd, 2007	
Harvest Date	August 8th, 2007	
Fertility	25 lbs P and 100 lbs N	
Herbicides	Axial + Widematch + MCPA	
Fungicide	Headline at 4-5 leaf	
<p>Plots were seeded with a Great Plains No-till drill and straight combined. Yields are converted to 14.5% moisture. Proteins, which are above the recommended levels, are high due to an excess of residual soil nitrogen in the trial area. Plump and thins are within the recommended guidelines. All varieties fell below the 0.5 ppm maximum guideline for DON.</p>		



ADM Public Canola Yield Trial Velva, ND 2007



Planted: May 2, 2007		Herb.	Moisture		Height		Maturity*		Yield		Past Yield	
Variety	Company	System	%	Rank	Inch	Rank	Days	Rank	lb/ac	Rank	2006	2005
Invigor 8440	Bayer	LL	9.6	25	32.5	16	86	23	1668	1		
IS7145 RR	Monsanto	RR	8.3	2	35.0	25	84	2	1570	2	1053	1897
DKL52-10	Monsanto	RR	8.9	15	37.0	31	85	18	1518	3	954	
CG HyClass 906	Croplan	RR	8.5	5	40.3	34	85	21	1429	4		
CG HyClass 410	Croplan	RR	9.3	21	33.3	20	86	27	1377	5		
DKL52-41	Monsanto	RR	8.5	4	32.0	13	85	11	1324	6		
Nexera 845 CL	Dow Ag	CL	10.5	32	31.8	12	86	29	1323	7		
Invigor 5440	Bayer	LL	10.0	29	36.3	30	86	24	1318	8		
CG HyClass 905	Croplan	RR	8.9	12	36.0	28	86	28	1312	9	840	1789
DKL38-25	Monsanto	RR	9.4	23	31.5	10	85	17	1282	10	1062	1830
InVigor 5550	Bayer	LL	9.3	20	37.3	32	85	19	1210	11	1292	1547
CG HyClass 924	Croplan	RR	9.2	17	32.8	17	85	12	1192	12	915	
1852H	Meridian Seed	RR	8.4	3	35.3	27	84	1	1177	13		
30 Caliber	Proseed	RR	10.3	31	34.5	23	86	30	1172	14		
CNX 11	Dow Ag	CL	9.3	19	32.0	14	86	26	1170	15		
CG HyClass 712	Croplan	RR	9.7	28	37.5	33	87	34	1158	16	880	1759
Invigor 5630	Bayer	LL	8.7	7	33.3	18	84	3	1134	17	1090	1858
1818	Meridian Seed	RR	8.8	9	29.8	8	87	32	1111	18	782	1552
1671H	Meridian Seed	CL	9.6	26	36.3	29	85	16	1107	19		
50 Caliber	Proseed	RR	8.5	6	33.8	22	85	7	1083	20		
SW H5263RR	Meridian Seed	RR	8.9	14	33.5	21	87	33	1078	21		
CG Freedom 8450	Croplan	LL	8.7	8	35.0	26	85	8	1065	22		
Nexera 830 CL	Dow Ag	CL	12.7	33	29.8	7	85	20	1001	23		1298
1759S	Meridian Seed	RR	9.4	22	28.3	4	85	15	945	24		
2066	Proseed	RR	9.2	18	31.0	9	84	5	943	25	836	1508
357 Magnum	Monsanto	RR	9.6	27	28.3	3	85	14	939	26	1164	1760
1768S	Meridian Seed	RR	8.8	10	32.3	15	86	22	911	27		
Nexera 828 CL	Dow Ag	CL	13.5	34	34.5	24	87	31	864	28	717	
CNX 06	Dow Ag	CL	9.5	24	29.3	6	85	13	804	29	784	
RangeRR	Integra Seed	RR	9.2	16	27.5	2	85	10	757	30		
Int.3789	Integra Seed	RR	8.9	11	31.8	11	84	6	723	31		
IS3057 RR	Monsanto	RR	8.0	1	29.3	5	84	4	690	32		
CG Rugby	Croplan	RR	8.9	13	25.5	1	85	9	610	33		
Roper	Cibus	Conv	10.2	30	33.3	19	86	25	606	34		
LSD (P=.05)			1.31		5.59		1.07		288.01			
Standard Deviation			0.93		3.99		0.76		205.71			
CV			9.97		12.15		0.89		18.62			
Grand Mean			9.37		32.85		85.22		1104.94		951	1680
*Maturity in days from planting												



Public Canola Yield Trial Mohall, ND 2007



		Herbicide	Yield		Height		Maturity		Lodging		Test Weight		Moisture	
Variety	Company	System	lb/ac	Rank	Inch	Rank	DAP*	Rank	1-9*	Rank	lb	Rank	%	Rank
IS7145 RR	Monsanto	RR	1818	1	48.3	7	88	3	3	3	51.6	4	8.1	3
CG HyClass 906	Croplan	RR	1747	2	50.3	11	88	3	2	2	50.1	9	8.2	4
Invigor 8440	Bayer	LL	1714	3	46.0	5	87	2	2	2	51.3	5	8.4	10
CG HyClass 924	Croplan	RR	1682	4	46.3	6	87	2	2	2	50.4	7	8.2	6
CG HyClass 778	Croplan	RR	1682	5	45.3	3	90	5	2	2	49.9	10	8.1	2
DKL52-41	Monsanto	RR	1669	6	49.3	10	90	5	4	4	51.0	6	8.2	5
InVigor 5550	Bayer	LL	1637	7	49.0	8	87	2	2	2	53.7	1	8.3	7
Invigor 5630	Bayer	LL	1530	8	45.0	1	86	1	1	1	53.1	2	8.3	8
CG HyClass 712	Croplan	RR	1492	9	49.3	9	91	6	1	1	49.5	11	8.6	11
IS3057 RR	Monsanto	RR	1439	10	45.5	4	86	1	2	2	51.9	3	7.9	1
CG Freedom 84S01 LL	Croplan	LL	1206	11	45.0	2	89	4	1	1	50.4	8	8.4	9
LSD (P=.05)			168.88		3.43						2.56		0.40	
Standard Deviation			116.96		2.38						1.77		0.28	
CV			7.30		5.04						3.47		3.40	
Grand Mean			1601.54		47.18		88.1		2.0		51.17		8.24	
*DAP = days after planting														
*1 = best & 9 = worst														

Seeding Type	Zero-Till	Comments
Location	Mohall, ND - Renville County	Plots were seeded with a Great Plains No-till drill and pushed before combining. Yields converted to 8.5% moisture.
Plot size	5 ft x 25 ft - 4 replicates	
Planting Date	May 3rd, 2007	
Harvest Date	August 8th, 2007	
Fertility	25 lbs P and 100 lbs N	
Herbicide	Roundup WeatherMax or Liberty	

Planted: April 27, 2007										Yield					
Harvested: October 2, 2007					Vigor	Moisture		Test Weight		Combined		Conventional		No-till	
Hybrid	Company	Traits	RM	Comment	1-9*	%	Rank	lbs	Rank	bu/ac	Rank	bu/ac	Rank	bu/ac	Rank
582Bt11	Proseed	LL/Bt	82	SEMI-FLEX	2.2	15.3	6	55.1	6	79.6	1	87.4	1	71.7	15
Int.6683	Integra Seed	RR	83	SEMI-FLEX	1.7	15.8	7	54.4	13	77.4	2	74.9	3	79.9	1
NT-5383	Nu-Tech	RR/YGCB	84	SEMI-FLEX	2.0	16.8	15	53.0	25	77.4	3	77.5	2	77.2	3
Int.6385	Integra Seed	RR	85	SEMI-FLEX	1.0	14.7	3	54.7	9	75.8	4	71.9	6	79.8	2
51P15	Dyna-Gro	RR/BT	85	FIXED	1.0	14.7	2	55.3	5	74.5	5	73.2	4	75.7	4
51B27	Dyna-Gro	RR/BT/CRW	84	FLEX	3.0	17.1	18	53.8	21	73.1	6	71.4	8	74.8	6
NT-5882	Nu-Tech	RR/YCGB	81	SEMI-FLEX	1.7	16.4	11	53.8	20	72.2	8	71.5	7	72.9	8
2821 RRBt	Seeds 2000	RR/BT	82	SEMI-FLEX	2.0	16.5	12	54.2	14	72.2	7	72.6	5	71.7	14
2P174	Mycogen Seeds	RR/YG	85	SEMI-FLEX	1.3	17.2	22	54.1	15	71.3	9	67.3	15	75.3	5
DKC 35-51	Monsanto	RR/YGCB	85	SEMI-FLEX	1.3	16.6	14	53.6	22	71.2	10	70.7	10	71.8	13
2K154	Mycogen Seeds	RR/HX	83	SEMI-FLEX	2.3	15.0	4	54.9	7	70.7	11	70.9	9	70.4	16
2810 RR	Seeds 2000	RR	81		3.0	14.5	1	50.7	27	70.2	12	68.1	14	72.4	11
LR 9483 RRYG+	Legend	RR/BT/CRW	83	FLEX	3.3	16.9	17	53.8	19	69.4	13	65.4	16	73.3	7
581 RRBtCRW	Proseed	RR/Bt/CRW	83	SEMI-FLEX	1.7	17.5	23	53.4	24	69.4	14	70.7	11	68.1	20
DKC 29-98	Monsanto	RR/YGCB	79	SEMI-FLEX	1.7	15.2	5	56.2	2	68.7	15	69.5	12	68.0	21
83-02 CBRW	Gold Country	RR/BT/CRW	83	SEMI-FLEX	1.3	17.1	19	54.1	16	68.2	16	63.6	19	72.8	9
NT-5883	Nu-Tech	RR/YGCB	83	SEMI-FIX	1.7	16.9	16	53.5	23	68.1	18	63.6	20	72.6	10
LR9779 RR	Legend	RR/BT	79	SEMI-FLEX	2.0	17.1	21	55.6	4	68.1	17	63.8	18	72.3	12
2J086	Mycogen Seeds	RR	80	SEMI-FLEX	1.3	15.9	9	53.8	18	67.9	19	68.6	13	67.1	23
Int.6780	Integra Seed	RR	80	SEMI-FLEX	1.7	16.6	13	55.6	3	65.9	20	64.8	17	67.1	22
LR9584 RB	Legend	RR/BT	84	SEMI-FLEX	1.0	18.3	26	53.9	17	65.0	21	61.7	22	68.4	19
781 RR	Proseed	RR	81	SEMI-FLEX	2.0	17.1	20	50.3	28	63.9	22	59.0	24	68.8	17
84-02 R	Gold Country	RR/BT	84	SEMI-FLEX	2.7	17.5	24	54.4	12	63.1	23	57.5	25	68.7	18
Int.6378	Integra Seed	RR	78	SEMI-FLEX	3.7	15.9	8	58.2	1	61.8	24	63.1	21	60.5	27
DKC 33-11	Monsanto	RR/YGCB	83	FIXED	1.7	18.6	27	54.9	8	61.6	25	59.9	23	63.2	25
678 RR	Proseed	RR	78	SEMI-FLEX	3.0	16.0	10	51.3	26	59.6	26	57.1	27	62.1	26
51P97	Dyna-Gro	RR/BT	81	FLEX	1.7	21.1	28	54.6	11	58.1	27	52.7	28	63.6	24
T 81RRBt	Proseed	RR/Bt	80	SEMI-FLEX	1.7	18.3	25	54.7	10	55.7	28	57.4	26	53.9	29
LR9780 RB	Legend	RR/BT	80	FIXED	3.0	22.8	29	49.7	29	52.7	29	48.8	29	56.7	28
LSD (P=.05)					1.13	1.45		1.19		6.57		9.40		8.35	
Standard Deviation					0.98	1.27		1.04		5.75		5.75		5.11	
CV					49.72	7.54		1.93		8.44		8.67		7.34	
Grand Mean					1.99	16.86		53.99		68.03		66.36		69.69	
* 1 = best & 9 = worst															

Comments:

Six reps were planted, three reps no-till and three reps conventional till. Soil temperature and moisture were above normal at planting so no significant emergence differences were found between hybrids or tillage method. Relative maturities (RM) are based upon company information.



Public Durum Yield Trial Mohall, ND 2007



Variety	Yield		Agronomics							
			Moisture		Test Weight		Protein		Height	
	bu/ac	Rank	%	Rank	lb	Rank	%	Rank	Inch	Rank
Grande D' Oro	56.0	1	12.2	10	61.8	2	15.5	3	39.5	9
Grenora	53.9	2	11.3	2	60.0	7	14.6	10	37.8	2
Primo D' Oro	53.3	3	12.0	8	61.7	3	15.4	5	44.8	10
Lebsock	53.2	4	11.9	7	62.0	1	14.7	9	38.5	5
Maier	52.9	5	11.7	4	61.6	4	15.7	2	38.0	4
Alkabo	51.5	6	12.0	9	61.6	5	15.1	6	38.5	6
Dilse	51.4	7	11.2	1	59.0	10	16.3	1	38.0	3
Divide	51.4	8	11.4	3	59.9	8	15.5	4	39.5	8
Pierce	50.2	9	11.7	5	60.7	6	14.9	8	38.8	7
Alzada	47.4	10	11.8	6	59.6	9	15.0	7	35.3	1
LSD (P=.05)	4.42		0.50		1.72		0.38		1.95	
Standard Deviation	3.04		0.35		1.18		0.26		1.35	
CV	5.84		3.99		2.05		1.73		3.46	
Grand Mean	52.12		11.70		60.80		15.26		38.85	

		Comments
Seeding Type	Zero-Till	Plots were seeded with a Great Plains No-till drill and were straight combined. Yields converted to 13.5% moisture.
Location	Mohall, ND - Renville County	
Plot size	5 ft x 25 ft - 4 replicates	
Planting Date	May 3rd, 2007	
Harvest Date	August 16th, 2007	
Fertility	25 lbs P and 100 lbs N	
Herbicides	Puma + Widematch + MCPA	
Fungicide	Headline at 4-5 leaf	

		Yield						Agronomics			
		Combined		Seed Treatment		No Seed Treatment		Test Weight		Moisture	
Variety	Company	bu/ac	Rank	bu/ac	Rank	bu/ac	Rank	lb	Rank	%	Rank
Golden		45.9	1	47.6	1	44.3	1	64.2	1	12.7	9
K2	Legume Logic	42.7	2	46.0	2	39.5	3	62.5	7	12.1	2
SW Midas	Legume Logic	40.9	3	40.9	4	40.8	2	63.6	3	12.4	6
Aragorn	Legume Logic	40.0	4	42.5	3	37.6	5	62.5	6	11.5	1
DS Admiral	Legume Logic	38.2	5	38.4	6	38.0	4	63.5	4	12.5	7
Fusion	Meridian Seeds	37.0	6	39.1	5	34.9	7	62.0	9	12.4	3
SW Capri	Meridian Seeds	36.5	7	37.1	7	35.9	6	63.1	5	12.4	5
Cooper	Meridian Seeds	33.5	8	32.1	8	34.8	8	62.4	8	12.5	8
Stirling		28.6	9	30.4	9	26.8	9	63.7	2	12.4	4
LSD (P=.05)		7.07		11.01		11.63		1.68		0.62	
Standard Deviation		6.06		6.36		6.72		1.44		0.53	
CV		15.87		16.17		18.17		2.28		4.30	
Grand Mean		38.15		39.34		36.96		63.06		12.31	

				Agronomics							
				Nodulation #		Nodulation Mass		Height		Lodging	
Variety	Company	Type	Maturity	1-9*	Rank	1-9*	Rank	Inches	Rank	1-9*	Rank
Golden		Yellow	Mid	5.8	9	6.5	9	18.8	8	4.8	7
K2	Legume Logic	Green	Mid	5.3	7	5.3	8	17.5	4	2.7	1
SW Midas	Legume Logic	Yellow	Early	5.5	8	4.5	6	18.7	7	4.0	4
Aragorn	Legume Logic	Green	Mid	3.8	3	3.5	2	16.8	3	5.0	8
DS Admiral	Legume Logic	Yellow	Early	3.5	2	3.8	3	19.0	9	3.7	3
Fusion	Meridian Seeds	Yellow	Mid	4.5	4	4.3	4	16.2	2	4.7	6
SW Capri	Meridian Seeds	Yellow	Early	3.5	1	3.3	1	18.3	6	2.8	2
Cooper	Meridian Seeds	Green	Late	4.8	6	4.5	5	17.8	5	4.5	5
Stirling		Green	Late	4.5	5	4.8	7	14.3	1	5.3	9
LSD (P=.05)				2.53		2.21		2.30		1.22	
Standard Deviation				1.73		1.51		1.97		1.05	
CV				38.02		33.85		11.25		21.67	
Grand Mean				4.56		4.47		17.50		4.83	
*1 = best & 9 = worst											

	Comments
Site history Seeding Type Location Plot size Planting Date Harvest Date Inoculum Herbicides Fungicide	Loam soil (Spring Wheat 2006) Zero-Till Velva, ND - McHenry County 5 ft x 25 ft - 6 replicates April 28th, 2007 July 31st, 2007 In furrow granule Spartan + Prowl Trilex seed treatment was applied to half the reps
	Growing season was very wet early on and all varieties were effected by fusarium root rot. The month of July was very dry. Yields have been adjusted to 16% moisture. Replicates treated with Trilex seed treatment overall yielded an average of 2.39 bu/a higher.

Public Dry Pea Inoculum Trial Velva, ND 2007

Inoculant	Company	Rate	Formulation	Yield		Moisture		Nodulation #		Nodulation Mass		Lodging	
				bu/ac	Rank	%	Rank	1-5*	Rank	1-5*	Rank	1-5*	Rank
N-Row	INTX Microbials	6.5 lb/a	Granular	19.49	1	15.7	3	4.5	2	4.0	2	2.0	5
PROTEC + N-Charge	Pro-Coat Technologies	4.2 fl oz/cwt + 5.5 oz/cwt	Pre. inoc + Peat	18.35	2	15.8	4	4.0	1	2.5	5	2.0	4
PRIMO	INTX Microbials	4.2 fl oz/cwt	Dual Action Liquid	16.49	3	16.6	5	5.0	1	4.5	1	2.5	3
N-Take	INTX Microbials	3.5 fl oz/cwt	Liquid	16.37	4	15.6	2	5.0	1	3.0	4	2.8	2
Control				14.85	5	15.4	1	4.0	3	3.5	3	3.2	1
Trial was planted very late for the area due to arrival date of inoculants.		LSD (P=.05)		2.36		1.12		5.48		2.98		1.02	
		Standard Deviation		1.96		0.93		1.98		1.07		0.85	
		CV		11.45		5.89		42.02		30.64		34.02	
		Grand Mean		17.11		15.81		4.70		3.50		2.50	
		*1 = worst & 5 = best											

Site history	Loam soil (Spring Wheat 2006)
Seeding Type	Zero-Till
Location	Velva, ND - McHenry County
Plot size	5 ft x 25 ft - 6 replicates
Planting Date	June 4th, 2007
Harvest Date	August 13th, 2007
Pea Variety	Golden
Herbicides	Spartan + Prowl

Comments
Early season moisture was good to excessive but later turned dry and hot resulting in fewer pods and peas/pod. Yields have been adjusted to 16% moisture.



Public Dry Pea Yield Trial Mohall, ND 2007



		Yield						Agronomics									
		Combined		Seed Treatment		No Seed Treatment		Test Weight		Moisture		Harvest Ease		Height		Lodging	
Variety	Maturity	bu/ac	Rank	bu/ac	Rank	bu/ac	Rank	lb	Rank	%	Rank	1-9*	Rank	Inch	Rank	1-9*	Rank
Miami	Early	57.9	1	59.6	1	56.2	2	62.8	2	14.5	10	3.0	7	31.3	6	5.0	8
Eclipse	Mid	57.5	2	59.6	2	55.5	4	60.7	9	14.1	4	3.0	4	29.5	4	2.5	2
Admiral	Early	57.1	3	57.8	3	56.4	1	61.1	8	14.2	6	1.3	1	33.3	10	1.5	1
Golden	Early	56.3	4	56.8	5	55.9	3	63.7	1	13.9	3	4.0	8	31.0	5	3.5	6
Mozart	Mid	53.7	5	56.9	4	50.5	7	62.3	3	14.2	8	6.5	10	27.0	1	7.8	10
Cruiser	Late	52.4	6	53.9	6	51.0	6	61.4	7	13.1	1	3.0	5	31.8	7	3.3	5
Tudor	Early	50.7	7	47.5	10	53.9	5	61.8	6	14.1	5	2.5	3	32.3	9	2.8	3
Stirling	Late	48.6	8	47.8	9	49.5	8	62.0	4	14.2	7	4.3	9	29.3	2	5.5	9
Nitouche	Late	47.9	9	48.6	8	47.3	9	60.1	10	13.8	2	3.0	6	32.0	8	3.8	7
Majoret	Late	47.4	10	50.2	7	44.6	10	61.8	5	14.3	9	1.5	2	29.5	3	3.3	4
LSD (P=.05)		5.31		8.02		8.35		1.31		0.35		1.26		3.81		1.59	
Standard Deviation		3.66		3.55		3.69		0.90		0.24		0.87		2.63		1.09	
CV		6.9		6.59		7.09		1.46		1.69		27.10		8.56		28.21	
Grand Mean		52.96		53.86		52.06		61.75		14.03		3.20		30.68		3.88	
*1 = best & 9 = worst																	

		Zero-Till	Comments
Seeding Type		Zero-Till	
Location		Mohall, ND - Renville County	
Plot size		5 ft x 25 ft - 4 replicates	
Planting Date		May 3rd, 2007	
Harvest Date		August 8th, 2007	
Inoculum		In furrow granule	
Herbicides		Spartan followed by Assure II	
Fungicide		Trilex seed treatment was applied to half the reps	
			Plots were seeded with a Great Plains No-till drill and were straight combined. Yields converted to 16% moisture. Replicates treated with Trilex seed treatment overall yielded an average of 1.8 bu/a higher.



Public Soybean Yield Trial Velva, ND 2007

Planted: May 10th, 2007		Herb	Mat.	Protein		Oil		Height		Moisture		Yield	
Variety	Company	System	Group	%	Rank	%	Rank	Inch	Rank	%	Rank	bu/ac	Rank
LS0057 RR	Legend Seed	RR	00.5	31.7	18	18.9	13	28.0	6	13.0	14	35.9	1
RR 60-06	Proseed	RR	00.6	31.8	16	19.2	9	26.7	12	13.5	18	34.5	2
S0090-64	Stine Seed	RR	00.8	32.7	7	19.4	5	28.3	4	11.7	7	33.5	3
LS0087 RR	Legend Seed	RR	00.8	31.8	15	19.2	10	24.7	18	12.2	9	31.5	4
SX07101	Dyna-Gro	RR	0.1	32.3	12	18.2	20	27.3	9	12.3	10	30.9	5
RR 50-07	Proseed	RR	00.7	31.3	21	19.7	1	27.3	10	12.8	12	30.3	6
RR 70-10	Proseed	RR	0.1	32.7	8	18.4	19	24.7	19	12.9	13	30.1	7
LS0065 RR	Legend Seed	RR	00.6	32.7	9	18.2	21	26.7	13	13.4	17	29.8	8
AG 0202	Monsanto	RR	0.2	31.3	20	18.1	22	30.3	1	9.7	1	29.2	10
Int.95009R	Integra Seed	RR	00.9	33.0	5	18.6	17	29.0	2	10.4	2	29.2	9
30B04	Dyna-Gro	RR	00.4	31.7	17	19.6	2	25.7	15	12.1	8	28.7	11
Int.96053RS	Integra Seed	RR/STS	0.3	33.0	6	17.3	23	28.3	5	10.4	3	28.3	12
Int.97001RS	Integra Seed	RR/STS	00.7	32.5	10	18.5	18	23.7	22	13.3	16	27.6	13
H0086R	Hefty Seed	RR	00.8	31.9	14	19.3	6	27.0	11	12.4	11	27.5	14
RR 50-00	Proseed	RR	0.00	33.8	1	18.8	15	24.0	20	11.0	5	27.4	15
AG 00603	Monsanto	RR	00.6	30.6	23	19.3	7	25.0	17	10.4	4	27.0	16
30M09	Dyna-Gro	RR	00.9	33.6	2	19.1	11	26.3	14	11.6	6	26.9	17
Int.97031R	Integra Seed	RR	0.3	33.3	4	18.7	16	27.7	8	14.8	22	26.9	18
RR 50-045	Proseed	RR	00.4	31.9	13	19.6	4	24.0	21	13.1	15	26.5	19
RR 50-04	Proseed	RR	00.4	33.3	3	18.9	12	29.0	3	15.2	23	25.9	20
H0046R	Hefty Seed	RR	00.8	32.4	11	19.3	8	28.0	7	14.4	21	25.3	21
RR 60-07	Proseed	RR/STS	00.7	31.3	22	18.8	14	25.3	16	13.5	19	24.7	22
S0070-64	Stine Seed	RR	00.7	31.6	19	19.6	3	22.3	23	13.5	20	23.9	23
LSD (P=.05)				1.34		1.10		3.73		1.24		6.35	
Standard Deviation				0.65		0.53		2.26		0.75		3.85	
CV				2.00		2.81		8.52		6.03		13.37	
Grand Mean				32.23		18.88		26.49		12.50		28.76	

		Yield						Agronomics					
		Combined		Fungicide Treated		No Fungicide		Test Weight		Protein		Height	
Variety	Company	bu/ac	Rank	bu/ac	Rank	bu/ac	Rank	lb	Rank	%	Rank	Inch	Rank
Faller	NDSU	45.5	1	47.8	1	43.1	4	61.4	12	13.4	11	34	8
Kuntz	AgriPro	44.9	2	44.5	3	45.4	1	62.8	6	13.4	12	32	2
Freyr	AgriPro	44.9	3	45.5	2	44.3	2	62.0	8	13.6	10	34	9
Trooper	WestBred	44.0	4	44.2	4	43.9	3	63.2	3	12.8	14	32	4
Kelby	AgriPro	41.2	5	41.1	6	41.2	6	63.0	4	14.6	4	30	1
Howard	NDSU	40.8	6	38.8	9	42.8	5	61.8	9	14.2	6	34	11
Steele-ND	NDSU	40.2	7	43.7	5	36.7	9	61.8	10	14.2	7	34	12
Glenn	NDSU	38.5	8	40.2	8	36.8	8	64.1	1	13.9	8	36	13
Rush	WestBred	36.9	9	35.6	12	38.3	7	63.8	2	14.9	3	32	5
Granite	WestBred	36.7	10	38.0	10	35.4	10	62.7	7	15.3	1	34	10
Reeder	NDSU	35.7	11	40.8	7	30.7	13	61.1	13	13.3	13	33	6
Alsen	NDSU	34.2	12	36.9	11	31.6	12	61.5	11	14.4	5	32	3
Dapps	NDSU	32.6	13	32.5	14	32.7	11	60.6	14	15.2	2	37	14
Bigg Red	WestBred	31.8	14	33.5	13	30.1	14	62.9	5	13.6	9	34	7
LSD (P=.05)		4.71		6.7		6.4		0.86		0.48		2.47	
Standard Deviation		4.08		3.99		3.81		0.40		0.34		2.14	
CV		10.41		9.92		10.01		0.64		2.41		6.41	
Grand Mean		39.14		40.2		38.07		62.31		14.05		33.35	

Site history	Loam soil (Canola 2006)	Comments
Seeding Type	Zero-Till	
Location	Velva, ND - McHenry County	
Plot size	5 ft x 30 ft - 6 replicates	
Planting Date	April 24th, 2007	
Harvest Date	August 6th, 2007	
Fertility	25 lbs P and 100 lbs N	
Herbicides	Axial+Widematch	
Fungicide	Fungicide was applied to half the trial - Headline at 4-5 lf and Prosoar at heading.	
Growing season was very wet through June and then became dry for remainder of season. Yields have been adjusted to 13.5% moisture. Fungicide was applied to half the replicates. Replicates sprayed with fungicide overall yielded an average of 2.13 bu/a higher. Pest pressure was a limited amount of stem maggot, leaf rust and tan spot.		

Variety	Yield		
	2004	2005	2006
	bu/ac	bu/ac	bu/ac
Alsen	36.8	48.2	26.7
Bigg Red			25.3
Dapp's		43.9	24.9
Freyr	47.6	52.5	23.5
Glenn			28.1
Granite	44.5	53.2	27.7
Hanna	39.4	48.2	
Howard			30.8
Kelby		51.7	28.5
Knudson	41.4	54.8	24.8
Norpro	42.9	45.4	
Reeder		34.3	
Rush			27.7
Steele-ND		44.6	29.6
Trooper	36.6		24.8

NDSU's ranking for disease response				
Variety	Head	Leaf	Leaf	Straw
	Scab	Disease	Rust	Strength
Alsen	MR	S	MR	strg
Bigg Red	MR	MS/S	MS	med
Dapp's	MS	S	R	med
Faller	?	?	?	?
Freyr	MR	MS/S	MR	strg
Glenn	MR	MS/S	R	strg
Granite	MS	S	MR	V strg
Howard	MS	MS/S	R	med
Kelby	MR	MR	MR	strg
Kuntz	?	?	?	?
Reeder	S	S	MS	strg
Rush	?	?	?	?
Steele-ND	MS	MS/S	R	med
Trooper	S	S	MS	strg



Public Wheat Yield Trial Mohall, ND 2007



		Agronomics									
		Yield		Moisture		Test Weight		Protein		Height	
		bu/ac	Rank	bu/ac	Rank	lb	Rank	%	Rank	Inch	Rank
Variety	Company										
Faller	NDSU	62.5	1	11.9	8	59.3	11	14.6	13	35.8	8
Kuntz	AgriPro	62.5	2	12.1	10	60.2	7	14.5	16	32.8	2
AP604	AgriPro	60.1	3	12.1	9	61.7	2	14.6	14	36.3	10
Freyr	AgriPro	58.3	4	12.5	12	58.8	14	15.0	11	37.3	11
Glenn	NDSU	56.6	5	12.2	11	59.1	12	15.7	6	38.0	16
Trooper	WestBred	56.0	6	14.1	15	58.7	16	15.2	10	34.3	4
Reeder	NDSU	55.8	7	11.5	2	58.9	13	14.9	12	36.0	9
Dapps	NDSU	53.7	8	11.3	1	59.6	10	16.3	2	37.3	12
Bigg Red	WestBred	51.5	9	12.5	13	62.3	1	14.6	15	37.5	15
Kelby	AgriPro	51.5	10	11.5	3	60.6	5	15.7	5	31.8	1
Howard	NDSU	50.7	11	11.8	6	58.7	15	15.4	8	37.3	14
Steele-ND	NDSU	50.4	12	11.6	5	59.6	9	15.3	9	37.3	13
Rush	WestBred	50.2	13	11.5	4	61.5	3	15.8	3	34.5	5
Breaker	WestBred	48.8	14	14.3	16	60.5	6	15.7	7	35.0	6
Granite	WestBred	48.5	15	11.9	7	60.6	4	16.4	1	33.5	3
Alsen	NDSU	48.4	16	12.8	14	60.1	8	15.8	4	35.3	7
LSD (P=.05)		7.25		2.02		1.26		0.53		2.35	
Standard Deviation		5.07		1.41		0.88		0.37		1.64	
CV		9.38		11.56		1.47		2.40		4.62	
Grand Mean		54.09		12.22		60.00		15.33		35.59	

	Zero-Till	Comments
Seeding Type	Mohall, ND - Renville County	Plots were seeded with a Great Plains No-till drill and were straight combined. Yields converted to 13.5% moisture.
Location	5 ft x 25 ft - 4 replicates	
Plot size	May 3rd, 2007	
Planting Date	August 16th, 2007	
Harvest Date	25 lbs P and 100 lbs N	
Fertility	Puma + Widematch + MCPA	
Herbicides	Headline at 4-5 leaf	
Fungicide		

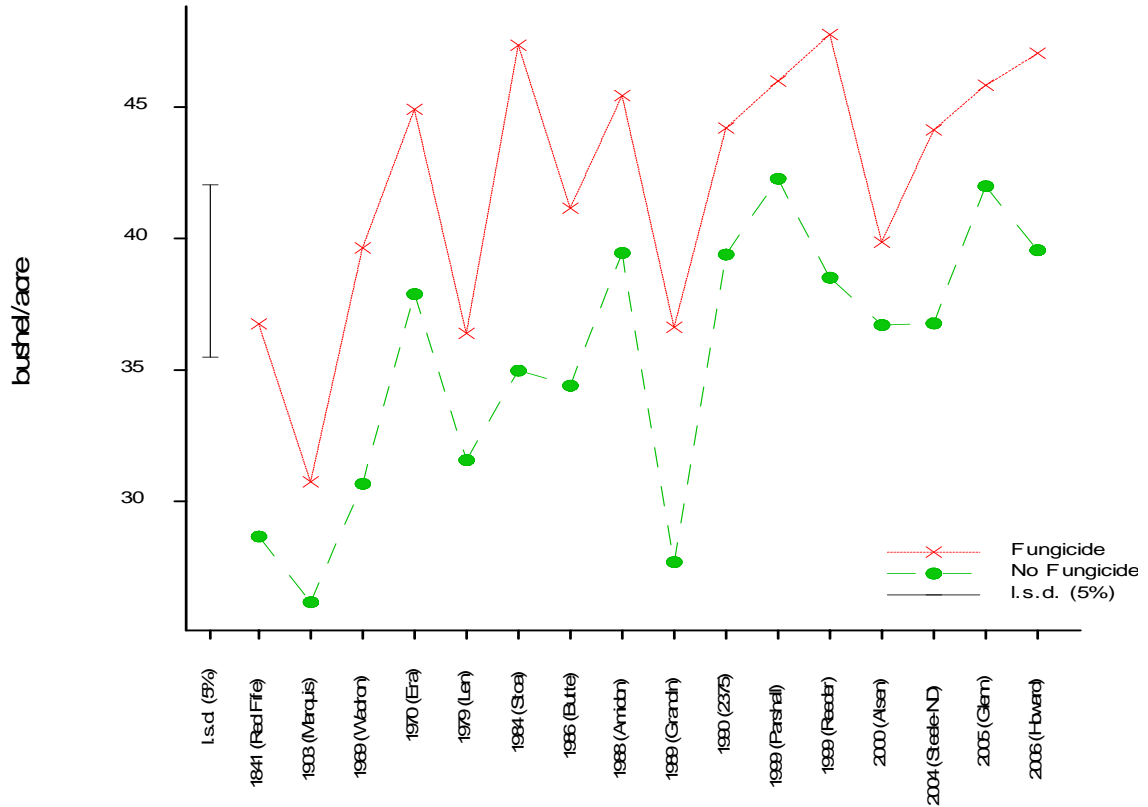
Variety	----- Yield bu/acre -----		Gain bu/acre	Gross Gain from Fungicide \$/acre	Net Gain from Fungicide \$/acre	Gross Revenue Minus Fungicide Cost
	Fungicide	No-fungicide				
1999 (Reeder)	47.8	38.5	9.2	52.69	37.69	257.19
1984 (Stoa)	47.4	35.0	12.4	70.55	55.55	254.90
2006 (Howard)	47.0	39.5	7.5	42.65	27.65	253.09
1999 (Parshall)	46.0	42.3	3.7	21.12	6.12	247.06
2005 (Glenn)	45.8	42.0	3.8	21.87	6.87	246.18
1988 (Amidon)	45.4	39.4	6.0	34.08	19.08	243.91
1970 (Era)	44.9	37.9	7.0	39.98	24.98	240.93
1990 (2375)	44.2	39.4	4.8	27.39	12.39	236.89
2004 (Steele-ND)	44.1	36.8	7.4	41.92	26.92	236.52
1986 (Butte)	41.2	34.4	6.7	38.46	23.46	219.56
2000 (Alsen)	39.9	36.7	3.1	17.91	2.91	212.16
1969 (Waldron)	39.6	30.7	9.0	51.08	36.08	210.91
1841 (Red Fife)	36.8	28.7	8.1	46.10	31.10	194.48
1989 (Grandin)	36.6	27.7	8.9	50.84	35.84	193.72
1979 (Len)	36.4	31.6	4.8	27.41	12.41	192.38
1903 (Marquis)	30.7	26.2	4.6	26.05	11.05	160.23
Mean	42.1	35.4	6.7	38.13	23.13	224.01
LSD (0.05)	3.7	3.7				

Based on \$5.70/ bushel wheat, fungicide total cost of \$15/acre (3 oz headline at 5 leaf + 4 oz tebuconazole at flowering)

Variety	----- Yield bu/acre -----		Gain bu/acre	Gross Gain from Fungicide \$/acre	Net Gain from Fungicide \$/acre	Gross Revenue Minus Fungicide Cost
	Fungicide	No-fungicide				
1999 (Reeder)	47.8	38.5	9.2	36.05	21.05	171.23
1984 (Stoa)	47.4	35.0	12.4	48.27	33.27	169.67
2006 (Howard)	47.0	39.5	7.5	29.18	14.18	168.43
1999 (Parshall)	46.0	42.3	3.7	14.45	-0.55	164.31
2005 (Glenn)	45.8	42.0	3.8	14.96	-0.04	163.70
1988 (Amidon)	45.4	39.4	6.0	23.32	8.32	162.15
1970 (Era)	44.9	37.9	7.0	27.36	12.36	160.11
1990 (2375)	44.2	39.4	4.8	18.74	3.74	157.35
2004 (Steele-ND)	44.1	36.8	7.4	28.68	13.68	157.09
1986 (Butte)	41.2	34.4	6.7	26.32	11.32	145.49
2000 (Alsen)	39.9	36.7	3.1	12.25	-2.75	140.42
1969 (Waldron)	39.6	30.7	9.0	34.95	19.95	139.57
1841 (Red Fife)	36.8	28.7	8.1	31.54	16.54	128.33
1989 (Grandin)	36.6	27.7	8.9	34.78	19.78	127.81
1979 (Len)	36.4	31.6	4.8	18.75	3.75	126.89
1903 (Marquis)	30.7	26.2	4.6	17.82	2.82	104.89
Mean	42.1	35.4	6.7	26.09	11.09	149.22
LSD (0.05)	3.7	3.7				

Based on \$3.90/ bushel wheat, fungicide total cost of \$15/acre (3 oz headline at 5 leaf + 4 oz tebuconazole at flowering)

Means for Variety at different levels of Fungicide



Fitted and observed relationship

