

## 2005 Barley - Alfalfa burn down

Dickinson, ND

Variety	Days to Head	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	% Plump >6/64	----- Grain Yield-----			Returns \$/ac	----- Average Yield -----	
							2003	2004	2005		2	3
							-----bu/ac-----				----bu/ac----	
<b>Six Row</b>												
Drummond	66	13,543	33	44.9	14.3	76	110.4	47.8	95.4	120.99	71.6	84.5
Excel	66	14,357	32	43.0	13.7	64	110.6	57.5	94.9	115.03	76.2	87.7
Foster	66	12,708	32	44.0	14.2	80	116.3	45.2	93.0	114.31	69.1	84.8
Lacey	66	12,806	30	46.9	14.1	86	111.3	46.2	97.7	127.05	72.0	85.1
Legacy	68	14,326	35	43.5	14.4	66	107.8	57.2	94.8	116.47	76.0	86.6
M 109	65	13,500	32	45.0	14.3	73	--	--	104.0	130.79	--	--
Robust	66	12,925	33	44.9	14.3	74	106.2	40.4	93.2	117.88	66.8	79.9
Stellar	66	13,312	33	44.1	14.1	82	112.0	44.9	101.5	125.96	73.2	86.1
Tradition	67	14,329	34	43.7	13.3	72	116.4	52.1	88.0	108.95	70.0	85.5
<b>Two Row</b>												
AC Metcalfe	70	13,470	33	45.3	14.4	67	--	57.6	85.1	107.81	71.3	--
Bowman	65	12,984	31	44.1	14.6	68	98.0	62.9	69.2	85.92	66.1	76.7
Conlon	64	10,867	32	48.5	14.0	91	93.6	34.4	76.0	98.77	55.2	68.0
Rawson	67	9,747	35	49.2	12.9	90	114.2	52.6	91.6	119.12	72.1	86.1
Eslick	70	12,392	34	46.7	14.0	73	--	63.1	100.8	129.55	81.9	--
Harrington	71	15,038	37	41.3	13.9	46	95.0	45.0	75.4	85.57	60.2	71.8
Haxby	68	13,495	32	46.3	14.1	65	--	72.5	83.9	109.11	78.2	--
Logan	66	11,808	31	47.7	13.9	73	112.6	60.3	83.6	108.71	72.0	85.5
Stark	67	11,616	35	48.0	14.6	80	116.3	60.5	91.7	118.55	76.1	89.5
Trial Mean	67	12,907	32	45.3	14.0	77	106.9	50.6	90.1	113.30	--	--
CV %	1.6	4.4	6.6	2.9	--	6.5	9.5	18.6	5.9	7.6	--	--
LSD 0.05	2	793	3	1.8	--	7	14.3	NS	7.4	12.08	--	--

Planting Date: April 21, 2005

Harvest Date: August 5, 2005

Previous Crop: Alfalfa burn down

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2005 yields by the price paid for feed barley minus the test weight discount paid at the Southwest Grain Terminal located at Gladstone on September 6. The price paid on this date was \$1.30/bu, assuming that the test weight was heavier than 45 lb/bu. Grain with a test weight of 45 lb/bu was discounted \$.03/bu, with an additional discount of \$.04/bu per pound down to 42 lb/bu. Below 42 lb/bu, an additional discount of \$.05/bu occurred per pound.

## 2005 Durum - Alfalfa burn down

Dickinson, ND

Variety	Days to Head	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	----- Grain Yield-----			Returns \$/ac	Average Yield	
						2003	2004	2005		2	3
						-----bu/ac-----			----bu/ac----		
AC Avonlea	67	14,228	35	56.3	15.5	61.4	30.0	49.2	157.04	49.2	46.9
AC Navigator	70	13,064	33	59.0	14.3	--	27.1	45.8	156.68	45.8	--
Alzada	67	14,280	31	55.5	14.7	--	23.2	43.0	128.27	43.0	--
Belzer	71	13,378	39	55.6	14.7	55.9	26.9	51.4	163.15	51.4	44.7
Ben	69	11,822	38	57.3	15.1	55.6	28.6	47.7	159.42	47.7	44.0
Alkabo	69	12,602	35	58.0	14.1	57.9	33.5	47.4	160.71	47.4	46.3
Divide	70	12,958	36	57.6	15.0	60.3	27.3	50.3	166.71	50.3	45.9
Grenora	68	12,600	32	56.5	14.7	61.4	30.1	50.2	162.24	50.2	47.2
Dilse	70	13,469	35	57.3	15.4	55.5	35.4	47.3	155.77	47.3	46.1
Grande Doro	70	12,914	37	58.8	15.5	--	--	46.1	158.04	--	--
Lebsock	68	13,259	34	58.6	14.7	56.0	28.7	48.6	166.21	48.6	44.4
Maier	67	13,245	33	56.9	14.8	60.6	28.1	51.3	167.74	51.3	46.7
Mountrail	70	14,478	34	56.5	15.1	56.2	32.1	48.5	155.27	48.5	45.6
Munich	68	16,332	34	54.4	15.9	56.6	30.5	45.6	137.30	45.6	44.2
Pierce	69	15,264	36	57.0	15.8	58.0	31.0	49.6	162.06	49.6	46.2
Plaza	70	14,888	31	55.9	15.3	56.4	28.0	47.3	149.04	47.3	43.9
Primo D'Oro	66	13,537	44	56.9	17.3	--	30.1	44.9	147.28	44.9	--
Renville	66	13,185	37	55.4	15.1	48.9	28.1	41.9	131.21	41.9	39.6
Rugby	68	14,176	37	57.5	14.4	53.3	29.9	41.0	136.00	41.0	41.4
Trial Mean	69	13,754	36	56.7	15.1	56.7	28.8	47.3	153.32	--	--
CV %	1.3	5.6	7.7	2.1	5.5	8.0	14.3	8.8	10.7	--	--
LSD 0.05	1	1,076	4	1.7	1.7	6.4	5.8	5.81	22.86	--	--

Planting Date: April 22, 2005

Harvest Date: August 19, 2005

Previous Crop: Alfalfa burn down

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2005 yield by the test weight discount paid at the Southwest Grain Terminal located at Gladstone on September 6. The price paid on this date was \$3.30/bu, assuming a minimum test weight of 60 lb/bu. Grain was discounted \$.02/bu for each 0.5 lb reduction in test weight between 60 and 58 lb/bu, \$.04/bu per 0.5 lb reduction between 58 and 54 lb/bu, and \$0.05/bu per 0.5 lb/bu reduction between 54 and 50 lb/bu.

Variety	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	Returns \$/ac	Grain Yield bu/ac
Alkabo	12,968	37	57.4	14.6	182.58	57.6
Ben	11,324	39	58.6	15.2	196.27	60.5
Dilse	11,884	38	58.0	16.2	198.95	61.9
Divide	12,965	37	56.9	15.9	185.02	59.1
Grenora	12,014	35	56.9	15.0	194.87	62.3
Trial Mean	12,231	37	57.6	15.4	191.54	60.3
CV %	5.4	3.7	1.0	1.7	6.5	6.5
LSD 0.05	1,008	2	0.9	0.7	NS	NS

Planting Date: April 15, 2005

Harvest Date: August 23, 2005

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2005 yield by the test weight discount paid at the Southwest Grain Terminal located at Gladstone on September 6. The price paid on this date was \$3.30/bu, assuming a minimum test weight of 60 lb/bu. Grain was discounted \$.02/bu for each 0.5 lb reduction in test weight between 60 and 58 lb/bu, \$.04/bu per 0.5 lb reduction between 58 and 54 lb/bu, and \$0.05/bu per 0.5 lb/bu reduction between 54 and 50 lb/bu.

Variety	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	Returns \$/ac	Grain Yield bu/ac
Alkabo	16,129	37	53.3	16.2	112.64	39.6
Ben	15,173	37	53.6	17.1	117.40	41.0
Dilse	17,376	38	53.9	17.3	110.92	38.4
Divide	15,842	36	52.4	17.5	117.20	42.7
Grenora	16,377	35	52.4	17.2	111.11	40.6
Trial Mean	16,179	36	53.1	17.1	113.85	40.4
CV %	6.4	4.3	2.5	2.5	9.0	9.1
LSD 0.05	NS	NS	NS	NS	NS	NS

Planting Date: April 15, 2005

Harvest Date: August 23, 2005

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2005 yield by the test weight discount paid at the Southwest Grain Terminal located at Gladstone on September 6. The price paid on this date was \$3.30/bu, assuming a minimum test weight of 60 lb/bu. Grain was discounted \$.02/bu for each 0.5 lb reduction in test weight between 60 and 58 lb/bu, \$.04/bu per 0.5 lb reduction between 58 and 54 lb/bu, and \$0.05/bu per 0.5 lb/bu reduction between 54 and 50 lb/bu.

**2005 Glen Ullin Hard Red Spring Wheat Recrop**
**Dickinson, ND**

Variety	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	-----Grain Yield-----		Returns \$/ac	Average Yield ---bu/ac---
					2004 ---bu/ac---	2005 ---bu/ac---		
Alsen	13,843	36	60.8	15.9	24.6	62.0	235.09	43.3
Choteau	16,068	33	57.9	15.2	--	53.7	200.88	--
Dapps	13,883	37	59.3	16.6	24.2	57.8	221.37	41.0
Freyr	14,039	35	59.8	15.4	28.8	66.6	251.16	47.7
Glenn	14,043	36	62.6	16.0	--	66.6	253.19	--
Granger	12,621	39	60.3	15.3	--	67.9	255.45	--
Outlook	14,427	36	58.4	14.7	--	55.8	203.67	--
Parshall	14,401	38	60.8	15.7	28.7	60.6	229.07	44.7
Reeder	16,255	38	60.0	16.4	29.7	56.2	214.65	42.9
Steele-ND	14,551	36	59.9	15.4	30.9	57.9	218.36	44.4
Ulen	13,967	34	60.8	15.3	--	59.6	223.95	--
Trial Mean	14,301	36	60.1	15.5	27.8	60.9	227.89	--
CV %	4.0	4.4	1.3	1.8	12.5	4.8	--	--
LSD 0.05	823	2	1.1	0.6	5.0	4.2	--	--

Planting Date: April 15, 2005

Harvest Date: August 23, 2005

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2005 yield by protein premium or discount paid at the Southwest Grain Terminal located at Gladstone on September 6. The price paid on this date was \$3.50/bu, assuming that grain protein concentration was 14%. An additional \$.05/bu was paid for each additional 0.2% increase in grain protein up to 15%. \$.01/bu was paid for each additional 0.2% increase in grain protein from 15% to 17% protein, above which an additional premium was not paid. Grain was discounted \$0.06/bu for each 0.2% reduction in grain protein from 14% to 11%, below which no additional discount was not assigned. Returns factored in discounts for grain with a test weight <58 lb/bu [-\$.02/bu for 0.5 lb/bu between 58 and 57 lb/bu; -\$0.03/bu for 0.5 lb/bu between 57 and 55 lb/bu; -\$0.04/bu for 0.5 lb/bu between 55 and 52 lb/bu; and -\$0.05/bu for 0.5 lb/bu between 52 and 51 lb/bu].

**2005 Hannover Hard Red Spring Wheat Recrop**
**Dickinson, ND**

Variety	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	----Grain Yield----		Returns \$/ac	Average Yield ---bu/ac---
					2004 ---bu/ac---	2005 ---bu/ac---		
Alsen	17,659	33	55.0	17.3	39.8	36.0	132.69	37.9
Choteau	20,361	31	51.9	16.6	--	31.1	105.08	--
Dapps	17,395	37	54.0	17.2	36.2	35.8	129.13	36.0
Freyr	18,079	35	55.3	16.6	41.3	37.7	138.47	39.5
Glenn	18,684	34	58.0	17.3	--	36.4	140.06	--
Granger	16,015	36	57.0	16.5	--	42.9	162.09	--
Outlook	18,597	35	54.5	16.9	--	34.1	123.94	--
Parshall	19,737	37	54.6	16.2	52.4	35.7	128.99	44.1
Reeder	21,908	35	55.8	17.9	45.2	29.3	109.18	37.3
Steele-ND	19,667	33	53.4	17.6	42.7	32.3	113.88	37.5
Ulen	17,076	34	55.5	16.2	--	34.3	126.11	--
Trial Mean	18,713	35	54.9	16.8	41.6	35.7	129.78	--
CV %	7.3	6.9	2.8	4.9	15.6	11.9	--	--
LSD 0.05	1,960	3	2.2	NS	NS	6.1	--	--

Planting Date: April 15, 2005

Harvest Date: August 23, 2005

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2005 yield by protein premium or discount paid at the Southwest Grain Terminal located at Gladstone on September 6. The price paid on this date was \$3.50/bu, assuming that grain protein concentration was 14%. An additional \$.05/bu was paid for each additional 0.2% increase in grain protein up to 15%. \$.01/bu was paid for each additional 0.2% increase in grain protein from 15% to 17% protein, above which an additional premium was not paid. Grain was discounted \$0.06/bu for each 0.2% reduction in grain protein from 14% to 11%, below which no additional discount was not assigned. Returns factored in discounts for grain with a test weight <58 lb/bu [-\$.02/bu for 0.5 lb/bu between 58 and 57 lb/bu; -\$.03/bu for 0.5 lb/bu between 57 and 55 lb/bu; -\$.04/bu for 0.5 lb/bu between 55 and 52 lb/bu; and -\$.05/bu for 0.5 lb/bu between 52 and 51 lb/bu].

## 2005 Oat - Alfalfa burn down

Dickinson, ND

Variety	Days to Head	Seeds per Pound	Plant Height in	Test Weight lbs/bu	----- Grain Yield-----			Returns \$/ac	Average Yield	
					2003	2004	2005		2	3
					-----bu/ac-----			----bu/ac----		
AC Assiniboia	75	12,777	37	30.9	103.8	55.9	130.1	94.01	93.0	96.6
AC Gwen*	73	14,442	40	35.5	--	44.3	93.3	91.47	68.8	--
AC Kaufman	71	14,460	39	31.8	112.3	41.5	103.8	77.97	72.7	85.9
AC Pinnacle	73	13,977	39	32.4	124.8	60.1	135.8	112.05	97.9	106.9
AC Ronald	72	15,210	39	34.6	120.1	48.3	124.2	111.74	86.2	97.5
Beach	73	15,681	42	34.2	120.1	46.2	121.9	103.82	84.1	96.1
Buff*	68	17,385	37	42.0	103.5	37.3	80.1	79.97	58.7	73.6
CDC Dancer	72	15,054	42	32.6	--	52.1	121.8	94.32	86.9	--
CDC Pacer	71	13,656	42	33.1	125.2	54.4	119.2	100.60	86.8	99.6
Ebeltoft	73	12,443	36	32.9	109.1	53.5	132.1	111.58	92.8	98.2
HiFi	71	17,225	42	31.5	121.6	49.4	114.5	84.49	81.9	95.2
Hyttest	69	13,763	41	36.7	122.9	51.6	101.2	96.15	76.4	91.9
Jerry	70	16,062	42	33.3	124.2	46.1	115.2	92.49	80.6	95.1
Killdeer	70	15,478	36	33.2	127.7	56.8	137.9	113.65	97.3	107.5
Leonard	71	16,297	38	29.7	--	58.0	124.6	81.53	91.3	--
Maida	72	12,963	41	32.3	--	46.4	118.0	92.23	82.2	--
Monida	75	16,619	41	29.6	127.5	56.0	131.8	88.01	93.9	105.1
Morton	72	14,618	41	32.5	114.7	49.8	121.7	96.43	85.8	95.4
Otana	73	15,992	43	33.7	130.3	62.9	124.3	105.87	93.6	105.8
Paul*	75	17,437	43	41.3	73.5	42.0	82.9	85.13	62.5	66.1
Sesqui	72	16,919	39	33.6	131.6	57.7	121.5	100.88	89.6	103.6
Stark*	73	20,265	41	36.7	106.9	43.8	89.0	83.64	66.4	79.9
Weaver	74	13,215	39	30.6	--	--	107.5	74.56	--	--
Youngs	72	13,173	41	31.2	119.3	52.8	114.3	81.98	83.5	95.5
Trial Mean	72	15,228	40	33.4	118.0	51.1	116.5	94.60	--	--
CV %	2.4	9.0	5.7	5.9	4.4	17.9	10.6	20.5	--	--
LSD 0.05	2	1,910	3	2.8	7.4	NS	17.4	NS	--	--

Planting Date: April 22, 2005

Harvest Date: August 8, 2005

\* Hulless

Previous Crop: Alfalfa burn down

Seeding Rate: 1 million live seeds/ac

Returns were calculated by multiplying the 2005 yield by the test weight discount paid at the Southwest Grain Terminal located in Gladstone on September 6. The price paid was \$1.00/bu, assuming that the test weight was heavier than 37 lb/bu. Grain with a test weight of 37 lb/bu was discounted \$.04/bu, with an additional discount of \$.04/bu per pound down to 30 lb/bu. Below 30 lb/bu, an additional discount of \$.07/bu occurred per pound.

## 2005 Winter Wheat - Recrop

Dickinson, ND

Variety	Heading Date <sup>1</sup>	Seeds per Pound	Plant Height	Test Weight	Protein %	----- Grain Yield-----			Returns \$/ac	----- Average Yield <sup>2</sup> -----	
						2002	2003	2005		2	3
	June		in	lbs/bu		-----bu/ac-----				bu/ac	
Arapahoe	15	16,678	35	57.6	13.4	46.9	69.1	58.0	165.39	63.6	58.0
CDC Buteo	16	17,645	33	59.9	12.5	--	--	58.3	165.67	--	--
CDC Falcon	15	19,717	31	57.6	13.1	55.4	83.4	61.4	173.73	72.4	66.7
Expedition	10	16,156	32	58.1	13.4	50.3	70.8	52.4	149.93	61.6	57.8
Harding	14	16,445	36	59.3	12.7	52.5	70.3	65.6	186.35	68.0	62.8
Jagalene	13	18,835	28	54.8	14.3	--	76.2	38.9	106.18	57.5	--
Jerry	15	15,913	34	58.6	13.4	43.3	76.7	66.0	189.36	71.3	62.0
Yellowstone	16	19,028	31	52.9	14.0	--	--	41.1	105.12	--	--
McClintock	17	18,910	35	57.9	13.0	--	83.8	50.2	142.19	67.0	--
Millennium	13	16,207	34	60.0	12.9	49.3	79.4	69.0	197.20	74.2	65.9
NuSky	17	21,039	34	55.4	13.0	--	--	39.3	106.12	--	--
Ransom	15	16,829	35	56.6	12.8	44.6	80.3	60.7	168.88	70.5	61.9
Roughrider	16	18,272	37	58.3	13.2	22.8	66.6	46.9	133.56	56.7	45.4
Wahoo*	14	19,215	31	54.9	13.1	48	83.3	48.9	130.60	66.1	60.1
Wendy	10	18,730	28	57.3	13.9	--	--	44.1	125.72	--	--
Wesley	11	15,789	28	55.9	14.1	45.2	65.9	48.7	135.40	57.3	53.3
Trial Mean	15	17,711	33	57.1	13.2	42.8	75.0	53.3	148.94	--	--
CV %	6.0	6.1	4.9	1.5	--	12.4	9.5	9.3	--	--	--
LSD 0.05	1	1,518	2	1.2	--	8.2	10.0	7.0	--	--	--

Planting Date: September 24, 2004

Harvest Date: August 2, 2005

<sup>1</sup>Winterkill notes were not recorded since little winter injury was observed.<sup>2</sup>Average yields are from 2002, 2003, and 2005 since winter wheat was not grown in 2004.

\* Wahoo was severely infected with Stinking Smut.

Previous Crop: Oat Hay

Seeding Rate: 75 pounds per acre