

## 2006 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 -----	
							2004	2005	2006		Year 2	Year 3
<b>Six Row</b>												
Drummond	60	14,786	30	43.7	15.2	61	47.8	95.4	89.9	143.36	92.7	77.7
Lacey	59	14,151	30	42.3	15.2	63	46.2	97.7	88.4	135.92	93.1	77.4
Legacy	60	16,458	29	38.6	14.4	50	57.2	94.8	76.0	103.83	85.4	76.0
Robust	60	13,588	31	44.7	15.4	69	40.4	93.2	89.8	146.27	91.5	74.5
Stellar-ND	60	15,355	28	39.8	13.9	67	44.9	101.5	83.8	121.68	92.6	76.7
Tradition	60	15,311	31	42.6	14.8	54	52.1	88.0	82.3	127.44	85.1	74.1
<b>Two Row</b>												
AC Metcalfe	65	12,418	31	43.9	16.3	81	57.6	85.1	88.6	140.92	86.9	77.1
Bowman	64	11,218	30	47.5	15.8	86	62.9	69.2	85.8	141.62	77.5	72.7
Conlon	62	10,213	30	46.4	15.1	95	34.4	76.0	82.3	134.85	79.2	64.2
Rawson	65	8,882	32	48.4	13.3	97	52.6	91.6	91.1	150.39	91.4	78.4
Eslick	65	13,089	30	44.2	15.6	57	63.1	100.8	98.1	157.80	99.4	87.3
Harrington	67	15,471	33	40.8	17.4	48	45.0	75.4	78.6	115.48	77.0	66.3
Haxby	65	12,198	29	47.2	15.6	61	72.5	83.9	94.0	153.32	89.0	83.5
Trial Mean	63	13,211	30	42.9	15.1	72	50.6	90.1	87.7	135.27	--	--
CV %	1.3	8.8	5.7	4.8	3.5	16.7	18.6	5.9	11.1	14.1	--	--
LSD 0.05	1	1,643	2	2.9	1.1	17	NS	7.4	13.6	26.70	--	--

Planting Date: April 25, 2006

Harvest Date: July 31, 2006

Previous Crop: Alfalfa burn down

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2006 yields by the price paid for feed barley minus the test weight discount paid at the Southwest Grain Terminal located at Gladstone on August 30. The price paid on this date was \$1.65/bu for grain with test weights 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.

## 2006 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	
						2004 -----bu/ac-----	2005 -----bu/ac-----	2006 -----bu/ac-----		2 Year	3 Year
AC Navigator	61	13,197	30	59.5	15.1	27.1	45.8	54.9	212.17	50.3	42.6
Alkabo	61	13,040	30	57.5	14.9	33.5	47.4	54.6	204.65	51.0	45.2
Alzada	56	12,685	30	57.0	14.6	23.2	43.0	52.5	195.25	47.7	39.6
Belzer	63	14,275	33	55.2	15.4	26.9	51.4	47.9	171.67	49.7	42.1
Ben	60	15,502	33	57.3	15.8	28.6	47.7	47.2	176.80	47.4	41.2
Dilse	62	14,275	31	56.1	16.4	35.4	47.3	48.3	176.43	47.8	43.7
Divide	63	15,074	32	56.1	15.8	27.3	50.3	50.4	183.66	50.3	42.6
Grande Doro	62	14,301	31	57.2	14.9	--	46.1	51.4	192.08	48.7	--
Grenora	59	14,829	32	55.7	15.5	30.1	50.2	52.2	189.28	51.2	44.2
Lebsock	60	14,177	32	57.6	15.1	28.7	48.6	50.1	188.98	49.4	42.5
Maier	61	15,629	30	56.9	16.3	28.1	51.3	49.8	184.83	50.6	43.1
Mountrail	63	15,216	31	55.7	14.6	32.1	48.5	53.2	192.51	50.9	44.6
Pierce	61	15,203	32	56.3	15.6	31.0	49.6	49.1	178.79	49.3	43.2
Plaza	63	16,082	28	54.6	15.7	28.0	47.3	45.3	159.63	46.3	40.2
Primo D'Oro	60	14,749	33	55.8	16.1	30.1	44.9	45.7	166.00	45.3	40.3
Rugby	61	15,588	35	54.4	16.4	29.9	41.0	46.5	162.24	43.7	39.1
Strongfield	61	14,677	32	54.4	16.0	--	--	54.6	191.30	--	--
Trial Mean	62	13,925	32	56.8	15.6	28.8	47.3	49.6	182.92	--	--
CV %	1.3	8.1	4.9	3.4	4.0	14.3	8.8	11.7	13.9	--	--
LSD 0.05	1	1,578	2	2.7	NS	5.8	5.81	NS	NS	--	--

Planting Date: April 25, 2006

Harvest Date: August 4, 2006

Previous Crop: Alfalfa burn down

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2006 yield by the test weight discount paid at the Southwest Grain Terminal located at Gladstone on August 30. The price paid on this date was \$3.90/bu for grain with 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.

## 2006 Hard Red Spring Wheat - Alfalfa burn down

Dickinson, ND

Variety	Days to Head	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	----- Grain Yield-----			----- Average Yield -----		
						2003	2004	2006	Returns	2 Year	3 Year
						-----bu/ac-----			----bu/ac----		
AC Superb	61	17,854	29	58.3	16.2	60.8	26.5	44.5	189.65	35.5	43.9
AP 603 CL	64	20,718	30	58.6	17.0	--	--	40.1	171.97	--	--
Ada	60	17,770	27	58.5	15.8	--	--	38.5	164.03	--	--
Alsen	60	19,524	28	59.6	16.1	61.4	27.5	40.1	171.84	33.8	43.0
Amazon	63	17,553	30	57.0	15.3	54.5	14.1	38.2	160.52	26.2	35.6
Banton	56	17,020	29	60.9	15.1	--	14.9	37.1	157.43	26.0	--
Bigg Red	61	17,991	29	61.0	15.5	--	--	41.8	178.04	--	--
Briggs	61	17,957	31	59.0	16.1	57.3	24.1	44.0	188.64	34.0	41.8
Choteau	60	18,145	27	57.4	17.0	--	18.3	41.2	175.12	29.7	--
Dapps	60	18,234	31	57.4	17.1	60.6	11.5	40.8	173.46	26.2	37.6
Freyr	60	18,123	28	59.3	15.7	--	29.7	42.9	183.33	36.3	--
Glenn	57	19,517	27	58.5	16.1	63.9	20.4	41.6	177.66	31.0	42.0
Granger	59	16,175	29	59.9	15.6	68.9	26.7	43.7	186.34	35.2	46.5
Granite	63	18,987	25	60.3	17.1	56.4	29.7	42.0	180.21	35.9	42.7
Gunner	64	19,322	30	59.9	17.0	58.8	27.5	43.7	187.67	35.6	43.4
Hanna	60	17,245	32	57.5	15.8	60.9	31.9	43.8	185.85	37.8	45.5
Howard	59	19,544	29	57.5	15.5	62.9	27.5	43.6	184.55	35.6	44.7
Ingot	58	18,825	31	61.6	15.8	64.1	25.8	42.1	180.33	34.0	44.0
Kelby	57	18,929	25	60.0	16.0	--	--	38.1	163.24	--	--
Knudson	59	17,585	26	60.3	15.5	--	--	41.4	176.47	--	--
Mercury	59	16,743	24	59.4	15.4	61.6	30.2	41.1	175.01	35.7	44.3
Norpro	60	17,466	26	59.4	16.2	63.0	27.6	47.2	202.64	37.4	45.9
Oklee	59	17,755	26	59.0	16.5	57.7	24.7	35.3	151.07	30.0	39.2
Outlook	61	17,642	28	58.3	14.8	62.1	30.3	46.4	195.25	38.3	46.2
Oxen	59	18,647	27	59.4	15.2	66.1	28.3	46.1	195.79	37.2	46.8
Parshall	60	18,897	28	57.5	16.3	62.5	21.2	41.9	178.87	31.6	41.9
Polaris	65	17,761	28	59.0	14.3	--	20.1	44.4	184.77	32.2	--
Reeder	64	21,206	30	59.0	17.0	65.4	28.4	40.8	175.14	34.6	44.9
Rush	58	18,205	27	60.9	16.6	--	--	36.9	158.30	--	--
Russ	60	19,023	30	58.1	15.9	64.4	25.7	43.3	184.82	34.5	44.5
Saturn	65	20,441	28	54.6	17.1	--	30.5	44.6	182.56	37.5	--
Steele-ND	60	19,044	31	57.0	16.0	63.9	26.5	43.4	183.46	35.0	44.6
Traverse	59	17,437	29	57.3	15.3	--	--	41.3	173.88	--	--
Trooper	58	17,874	25	57.0	14.9	--	22.6	41.3	171.78	31.9	--
Ulen	58	17,168	28	59.5	16.4	63.0	21.9	38.2	163.74	30.0	41.0
Trial Mean	60	18,254	28	59.0	16.0	60.8	24.0	41.3	175.62	--	--
CV %	1.0	6.6	5.9	1.6	1.8	6.0	17.8	7.9	--	--	--
LSD 0.05	1	1,670	2	1.3	0.6	5.1	NS	4.6	--	--	--

Planting Date: April 24, 2006

Harvest Date: August 7, 2006

Previous Crop: Alfalfa burn down

Seeding Rate: 1.2 million live seeds/ac

Returns were calculated by multiplying the 2006 yield by protein premium or discount paid at the Southwest Grain Terminal located at Gladstone on August 30. The price paid on this date was \$4.14/bu for a grain protein concentration was 14%. \$.02/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 16% protein, above which an additional premium was not paid. Grain was discounted \$.02/bu for each 0.2% reduction in grain protein from 14% to 11%, below which no additional discount was 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 54 lb/bu; and -.05/bu for 0.5 lb/bu between 54 and 50 lb/bu].

## 2006 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-----	
					2004	2005	2006		2	3
					-----bu/ac-----			----bu/ac----		
AC Assiniboia	65	15,721	29	31.4	55.9	130.1	95.1	91.23	112.6	93.7
AC Kaufman	62	16,007	29	31.8	41.5	103.8	91.4	91.35	97.6	78.9
AC Pinnacle	63	17,130	30	32.9	60.1	135.8	108.1	113.78	121.9	101.3
AC Ronald	61	16,243	30	33.9	48.3	124.2	97.6	102.86	110.9	90.0
Beach	61	16,842	32	34.9	46.2	121.9	94.4	104.89	108.1	87.5
Buff*	57	22,846	27	38.0	37.3	80.1	60.9	74.31	70.5	59.4
CDC Dancer	63	17,868	31	32.5	52.1	121.8	96.0	96.22	108.9	89.9
CDC Pacer	63	15,068	31	29.6	54.4	119.2	107.4	93.96	113.3	93.6
CDC Weaver	64	12,887	31	31.5	--	107.5	98.7	99.32	103.1	--
Ebeltoft	65	17,518	26	30.3	53.5	132.1	89.4	84.24	110.8	91.7
HiFi	63	20,581	31	32.1	49.4	114.5	87.9	85.04	101.2	83.9
HiFi-9	62	19,796	31	32.1	--	--	89.5	86.95	--	--
Hyttest	59	16,563	33	34.3	51.6	101.2	90.5	96.50	95.9	81.1
Jerry	59	16,475	30	33.5	46.1	115.2	90.5	93.85	102.8	83.9
Killdeer	59	17,912	26	32.2	56.8	137.9	93.5	93.91	115.7	96.1
Leonard	63	17,017	29	28.7	58.0	124.6	96.3	76.24	110.4	93.0
Maida	62	15,991	30	32.0	46.4	118.0	84.2	80.86	101.1	82.9
Monida	64	17,452	30	27.4	56.0	131.8	104.8	77.53	118.3	97.5
Morton	62	17,236	32	30.9	49.8	121.7	97.2	89.33	109.5	89.6
Souris	60	19,715	27	32.8	55.2	123.8	97.0	97.41	110.4	92.0
Otana	63	17,418	31	30.8	62.9	124.3	96.3	89.58	110.3	94.5
Paul*	64	19,027	31	39.3	42.0	82.9	58.5	72.26	70.7	61.1
Stallion	60	13,635	31	32.4	--	--	100.2	98.33	--	--
Stark*	65	21,683	32	36.1	43.8	89.0	68.1	78.32	78.5	67.0
Youngs	63	14,954	31	30.1	52.8	114.3	98.0	88.05	106.1	88.4
Trial Mean	62	17,160	30	32.7	51.1	116.5	93.0	92.89	--	--
CV %	1.3	6.6	4.8	3.1	17.9	10.6	9.8	11.9	--	--
LSD 0.05	1	1,595	2	1.4	NS	17.4	12.7	15.5	--	--

Planting Date: April 25, 2006

Harvest Date: July 31, 2006

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Previous Crop: Alfalfa burn down

Seeding Rate: 1 million live seeds/ac

Returns were calculated by multiplying the 2006 yield by the test weight discount paid at the Southwest Grain Terminal located in Gladstone on August 30. The price paid was \$1.25/bu for grain with a test weight greater 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 to 30 lb/bu. Below 30 lb/bu, an additional discount of \$.07/bu occurred per pound.