

2006 VARIETAL RECOMMENDATION

FREYR

AgriPro requests that “Freyr” hard red spring wheat be considered for variety recommendation in the state of Montana. We move that Freyr be recommended for all crop reporting districts.

Freyr was developed by AgriPro and released to AgriPro Associates in 2003. Certified seed was available to growers in 2004. PVP was issued in 2004. Freyr was derived from the cross “Sonja/Vance/3/Sumai3/Dalen”. It is a hollow stemmed, hard red spring variety that is broadly adapted across the northern plains.

Freyr has been tested in Montana State Trials in 2004 and 2005 (20 station years, Tables 1-5). During this period, it has ranked 3rd statewide in yield compared to 12 currently grown check varieties. It is intermediate in height, similar to Reeder, with moderately strong straw strength. Maturity is medium-early, similar to Reeder and two days earlier than McNeal. Test weight is very good, averaging higher than all check varieties. Protein is medium averaging 0.2% below McNeal.

The disease resistance of Freyr has been well documented from testing in North Dakota and Minnesota over the past four seasons. Freyr has the Asian background (Sumai3) for fusarium resistance. It has the best rating available for this disease at moderately resistant. It is moderately resistant to the prevalent races of stem and leaf rust. Freyr has good tolerance to leaf spotting diseases, such as tan spot and septoria (2005 MSU data, Table 6). Data generated from Kalispell in 2005 shows Freyr to have moderate resistance to stripe rust. This rating has also been confirmed in readings from South Dakota and Minnesota.

Freyr has acceptable overall breadmaking quality (Tables 7 and 8). It has very good flour yield and mixing strength slightly stronger than Reeder. Baking data has been similar to the checks.

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TABLE 1. 2004-5 GRAIN YIELD (BU/A) SUMMARY OF FREYR COMPARED TO SELECTED VARIETIES, MSU TRIAL DATA

ID	DISTRICT 1 KALISPELL, HIGH RAINFALL				DISTRICT 2 BOZEMAN IRRIGATED				DISTRICT 2 BOZEMAN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	101.94	84.28	2	93.11	100.93	84.8	2	92.87	83	58.62	2	70.81
THATCHER	81.41	48.02	2	64.72	71.89	58.17	2	65.03	64.33	51.12	2	57.72
FORTUNA	100.69	74.78	2	87.74	100.64	70.02	2	85.33	81.36	56.52	2	68.94
MCNEAL	86.77	43.64	2	65.21	102.86	82.5	2	92.68	85.28	56.35	2	70.82
ERNEST	89.27	61.79	2	75.53	90.54	74.34	2	82.44	80.46	52.8	2	66.63
SCHOLAR	99.29	82.24	2	90.76	95.93	72.4	2	84.17	84.09	56.2	2	70.14
Reeder	92.42	92.36	2	92.39	97.16	83.58	2	90.37	85.35	60.74	2	73.04
Conan	98.96	81.35	2	90.15	89.9	78.39	2	84.15	81.69	57.19	2	69.44
HANK	103.24	71.54	2	87.39	115.33	91.86	2	103.6	89.02	67.54	2	78.28
OUTLOOK	94.65	60.96	2	77.81	104.15	86.36	2	95.26	87.4	64.98	2	76.19
CHOTEAU	88.61	71.35	2	79.98	103.18	87.38	2	95.28	89.95	56.61	2	73.28
NORPRO	94.44	59.02	2	76.73	104.38	90.77	2	97.57	92.63	60.61	2	76.62
KNUDSON	93.32	77.92	2	85.62	97.67	82.5	2	90.08	84.55	58.2	2	71.38
AVERAGE	94.23	69.94	2	82.09	98.04	80.24	2	89.14	83.78	58.27	2	71.02

ID	DISTRICT 3 HUNTLEY DRYLAND				DISTRICT 3 HUNTLEY IRRIGATED				DISTRICT 4 MOCCASIN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	33.3	44.9	2	39.1	115.4	86.3	2	100.9	39.8	24.0	2	31.9
THATCHER	34.0	26.9	2	30.5	93.6	60.9	2	77.2	28.3	18.1	2	23.2
FORTUNA	31.7	36.3	2	34.0	108.9	62.7	2	85.8	37.1	25.7	2	31.4
MCNEAL	39.1	39.0	2	39.0	114.4	78.1	2	96.3	36.9	24.3	2	30.6
ERNEST	35.1	29.3	2	32.2	114.0	76.1	2	95.0	34.1	20.9	2	27.5
SCHOLAR	32.7	35.8	2	34.2	116.0	68.7	2	92.3	36.1	22.6	2	29.4
Reeder	32.8	43.4	2	38.1	110.5	72.4	2	91.5	37.9	27.2	2	32.5
Conan	28.3	39.6	2	33.9	113.4	73.7	2	93.6	39.3	25.3	2	32.3
HANK	29.5	44.4	2	37.0	123.3	85.8	2	104.6	41.5	29.2	2	35.4
OUTLOOK	39.3	45.0	2	42.2	116.2	89.8	2	103.0	39.5	26.0	2	32.8
CHOTEAU	28.7	34.9	2	31.8	128.7	83.0	2	105.8	35.6	26.8	2	31.2
NORPRO	33.5	32.9	2	33.2	118.5	95.7	2	107.1	32.2	22.1	2	27.2
KNUDSON	32.9	39.6	2	36.3	115.2	82.3	2	98.8	36.9	24.9	2	30.9
AVERAGE	33.1	37.9	2	35.5	114.5	78.1	2	96.3	36.6	24.4	2	30.5

ID	DISTRICT 5 CONRAD DRYLAND				DISTRICT 5 HAVRE DRYLAND				DISTRICT 6 SIDNEY DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	62.0	54.7	2	58.4	40.4	49.5	2	44.9	64.6	47.9	2	56.2
THATCHER	44.6	36.2	2	40.4	36.1	41.4	2	38.8	55.8	36.5	2	46.1
FORTUNA	58.0	51.0	2	54.5	42.0	48.2	2	45.1	60.3	42.0	2	51.2
MCNEAL	57.5	54.3	2	55.9	40.8	51.4	2	46.1	68.3	45.7	2	57.0
ERNEST	56.7	37.7	2	47.2	39.8	46.1	2	42.9	61.2	44.1	2	52.6
SCHOLAR	52.8	48.4	2	50.6	44.7	46.9	2	45.8	67.6	44.3	2	55.9
Reeder	60.7	53.3	2	57.0	40.9	51.2	2	46.0	68.0	50.2	2	59.1
Conan	58.0	49.7	2	53.9	43.3	55.5	2	49.4	59.1	44.6	2	51.9
HANK	60.0	51.0	2	55.5	45.0	55.6	2	50.3	66.6	48.0	2	57.3
OUTLOOK	60.2	51.9	2	56.0	49.0	58.3	2	53.7	67.5	46.4	2	57.0
CHOTEAU	63.8	50.5	2	57.2	42.5	55.7	2	49.1	61.9	46.1	2	54.0
NORPRO	59.9	49.0	2	54.4	39.1	49.4	2	44.3	70.7	52.7	2	61.7
KNUDSON	60.2	47.0	2	53.6	38.6	47.0	2	42.8	68.3	46.6	2	57.4
AVERAGE	58.0	48.8	2	53.4	41.7	50.5	2	46.1	64.6	45.8	2	55.2

ID	DISTRICT 6 SIDNEY IRRIGATED				OVERALL		
	2004	2005	YRS	AVE	AVE	YEARS	RANK
FREYR	82.3	72.8	2	77.5	66.6	20	3
THATCHER	71.1	60.1	2	65.6	50.9	20	13
FORTUNA	66.4	60.3	2	63.4	60.7	20	11
MCNEAL	83.4	67.3	2	75.3	62.9	20	8
ERNEST	76.4	63.2	2	69.8	59.2	20	12
SCHOLAR	72.1	59.8	2	65.9	61.9	20	10
Reeder	88.8	62.6	2	75.7	65.6	20	5
Conan	76.1	59.6	2	67.9	62.7	20	9
HANK	87.6	74.7	2	81.2	69.0	20	1
OUTLOOK	84.2	75.9	2	80.0	67.4	20	2
CHOTEAU	76.0	55.8	2	65.9	64.4	20	7
NORPRO	80.0	80.1	2	80.0	65.9	20	4
KNUDSON	79.3	76.3	2	77.8	64.5	20	6
AVERAGE	78.7	66.8	2	72.8	63.2	20	0

TABLE 2. 2004-5 TEST WT. (BU/A) SUMMARY OF FREYR COMPARED TO SELECTED VARIETIES, MSU TRIAL DATA

ID	DISTRICT 1 KALISPELL, HIGH RAINFALL				DISTRICT 2 BOZEMAN IRRIGATED				DISTRICT 2 BOZEMAN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	61.1	60.0	2	60.6	62.5	61.5	2	62.0	62.8	60.9	2	61.9
THATCHER	59.4	58.5	2	58.9	61.8	56.1	2	59.0	59.6	58.6	2	59.1
FORTUNA	62.1	61.3	2	61.7	62.7	61.9	2	62.3	62.6	61.4	2	62.0
MCNEAL	60.9	51.9	2	56.4	62.5	61.0	2	61.8	60.7	60.9	2	60.8
ERNEST	60.7	57.8	2	59.3	61.1	62.2	2	61.7	61.3	59.5	2	60.4
SCHOLAR	61.7	60.2	2	61.0	62.8	61.3	2	62.1	62.5	60.5	2	61.5
Reeder	61.6	59.0	2	60.3	62.7	61.5	2	62.1	62.8	61.1	2	62.0
Conan	61.0	59.4	2	60.2	62.2	60.2	2	61.2	60.4	59.5	2	60.0
HANK	59.2	55.7	2	57.4	62.4	57.1	2	59.8	60.6	58.9	2	59.8
OUTLOOK	58.4	54.8	2	56.6	61.3	60.5	2	60.9	62.0	59.8	2	60.9
CHOTEAU	60.1	58.1	2	59.1	61.9	61.6	2	61.8	61.5	59.9	2	60.7
NORPRO	61.4	52.2	2	56.8	63.0	59.0	2	61.0	63.1	58.6	2	60.9
KNUDSON	60.8	57.5	2	59.2	61.3	61.5	2	61.4	61.8	60.2	2	61.0
AVERAGE	60.7	57.4	2	59.0	62.2	60.4	2	61.3	61.7	60.0	2	60.8

ID	DISTRICT 3 HUNTLEY DRYLAND				DISTRICT 3 HUNTLEY IRRIGATED				DISTRICT 4 MOCCASIN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	63.4	55.3	2	59.4	63.2	62.1	2	62.7	56.7	55.1	2	55.9
THATCHER	61.9	53.3	2	57.6	62.0	60.5	2	61.3	51.9	55.0	2	53.5
FORTUNA	62.4	56.0	2	59.2	63.5	60.4	2	61.9	56.9	56.9	2	56.9
MCNEAL	62.4	54.3	2	58.3	63.4	62.2	2	62.8	55.0	52.9	2	53.9
ERNEST	63.6	55.6	2	59.6	63.3	61.2	2	62.2	55.0	56.1	2	55.6
SCHOLAR	61.6	56.5	2	59.0	63.1	61.8	2	62.4	57.3	57.6	2	57.4
Reeder	63.8	55.5	2	59.6	63.2	62.0	2	62.6	56.2	55.5	2	55.8
Conan	63.2	53.0	2	58.1	61.9	61.3	2	61.6	57.0	56.2	2	56.6
HANK	61.7	52.8	2	57.3	61.0	59.9	2	60.4	53.6	51.8	2	52.7
OUTLOOK	62.4	54.0	2	58.2	61.9	60.9	2	61.4	54.1	53.6	2	53.8
CHOTEAU	62.8	53.5	2	58.2	63.8	61.0	2	62.4	57.1	56.3	2	56.7
NORPRO	63.3	49.7	2	56.5	63.0	61.2	2	62.1	54.0	52.0	2	53.0
KNUDSON	62.6	54.4	2	58.5	62.2	60.9	2	61.6	56.3	55.0	2	55.7
AVERAGE	62.7	54.1	2	58.4	62.7	61.2	2	61.9	55.5	54.9	2	55.2

ID	DISTRICT 5 CONRAD DRYLAND				DISTRICT 5 HAVRE DRYLAND				DISTRICT 6 SIDNEY DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	62.0	61.0	2	61.5	60.3	58.9	2	59.6	62.4	62.9	2	62.6
THATCHER	59.8	55.1	2	57.5	54.1	56.2	2	55.2	58.3	57.5	2	57.9
FORTUNA	62.9	60.1	2	61.5	59.2	58.4	2	58.8	61.8	61.5	2	61.6
MCNEAL	61.8	58.8	2	60.3	57.2	57.4	2	57.3	60.0	61.1	2	60.5
ERNEST	62.9	57.1	2	60.0	59.6	56.9	2	58.3	61.3	62.3	2	61.8
SCHOLAR	61.1	60.0	2	60.6	59.4	59.0	2	59.2	61.3	62.1	2	61.7
Reeder	60.2	59.1	2	59.7	59.2	58.4	2	58.8	61.8	63.1	2	62.4
Conan	60.2	59.6	2	59.9	59.7	59.4	2	59.5	61.5	62.3	2	61.9
HANK	59.5	56.7	2	58.1	58.3	55.6	2	57.0	61.0	60.3	2	60.6
OUTLOOK	60.2	57.1	2	58.7	57.7	58.0	2	57.9	61.3	61.0	2	61.1
CHOTEAU	63.9	59.1	2	61.5	58.8	58.4	2	58.6	61.7	62.7	2	62.2
NORPRO	61.6	55.0	2	58.3	58.0	56.1	2	57.1	62.0	62.9	2	62.4
KNUDSON	61.9	59.4	2	60.7	60.0	57.6	2	58.8	62.4	63.1	2	62.7
AVERAGE	61.4	58.3	2	59.9	58.6	57.7	2	58.2	61.3	61.8	2	61.5

ID	DISTRICT 6 SIDNEY IRRIGATED				OVERALL		
	2004	2005	YRS	AVE	AVE	YEARS	RANK
FREYR	63.8	61.8	2	62.8	60.9	20	1
THATCHER	62.0	59.8	2	60.9	58.1	20	13
FORTUNA	63.1	60.8	2	62.0	60.8	20	2
MCNEAL	62.4	61.8	2	62.1	59.4	20	9
ERNEST	63.3	61.3	2	62.3	60.1	20	8
SCHOLAR	63.0	61.5	2	62.3	60.7	20	3
Reeder	63.0	62.0	2	62.5	60.6	20	4
Conan	63.0	61.8	2	62.4	60.1	20	7
HANK	62.7	60.8	2	61.8	58.5	20	12
OUTLOOK	62.2	60.7	2	61.4	59.1	20	10
CHOTEAU	62.8	62.0	2	62.4	60.4	20	5
NORPRO	63.3	61.5	2	62.4	59.0	20	11
KNUDSON	63.7	61.7	2	62.7	60.2	20	6
AVERAGE	62.9	61.4	2	62.2	59.8	20	0

TABLE 3. 2004-5 DAYS TO HEADING SUMMARY OF FREYR COMPARED TO SELECTED VARIETIES, MSU TRIAL DATA

ID	DISTRICT 1 KALISPELL, HIGH RAINFALL				DISTRICT 2 BOZEMAN IRRIGATED				DISTRICT 2 BOZEMAN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	167	175	2	171	181	184	2	183	181	185	2	183
THATCHER	174	180	2	177	183	187	2	185	184	188	2	186
FORTUNA	168	176	2	172	180	185	2	183	181	184	2	183
MCNEAL	169	177	2	173	182	186	2	184	183	187	2	185
ERNEST	171	177	2	174	182	185	2	184	182	185	2	184
SCHOLAR	170	178	2	174	183	187	2	185	183	187	2	185
Reeder	168	174	2	171	181	184	2	183	181	183	2	182
Conan	166	175	2	171	180	185	2	183	181	185	2	183
HANK	166	175	2	171	179	184	2	182	182	184	2	183
OUTLOOK	171	179	2	175	183	187	2	185	183	188	2	186
CHOTEAU	168	176	2	172	180	184	2	182	182	184	2	183
NORPRO	168	176	2	172	181	184	2	183	182	185	2	184
KNUDSON	169	176	2	172	181	187	2	184	182	187	2	185
AVERAGE	169	177	2	173	181	185	2	183	182	186	2	184

ID	DISTRICT 3 HUNTLEY DRYLAND				DISTRICT 3 HUNTLEY IRRIGATED				DISTRICT 4 MOCCASIN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	158	170	2	164	160	169	2	164	185	183	2	184
THATCHER	161	173	2	167	166	171	2	169	189	187	2	188
FORTUNA	158	171	2	165	160	170	2	165	185	183	2	184
MCNEAL	160	171	2	166	161	169	2	165	186	184	2	185
ERNEST	160	172	2	166	161	169	2	165	185	183	2	184
SCHOLAR	159	171	2	165	161	170	2	166	186	184	2	185
Reeder	158	169	2	164	159	167	2	163	185	182	2	183
Conan	157	169	2	163	159	167	2	163	184	182	2	183
HANK	158	169	2	163	160	167	2	164	182	181	2	182
OUTLOOK	160	172	2	166	164	171	2	168	186	185	2	186
CHOTEAU	158	170	2	164	161	169	2	165	184	182	2	183
NORPRO	159	171	2	165	161	170	2	166	184	183	2	183
KNUDSON	159	171	2	165	162	170	2	166	185	184	2	185
AVERAGE	159	171	2	165	161	169	2	165	185	183	2	184

ID	DISTRICT 5 CONRAD DRYLAND				DISTRICT 5 HAVRE DRYLAND				DISTRICT 6 SIDNEY DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	185	183	2	184	181	177	2	179	173	171	2	172
THATCHER	186	186	2	186	183	178	2	180	178	173	2	176
FORTUNA	183	184	2	184	180	175	2	178	173	171	2	172
MCNEAL	185	184	2	185	182	178	2	180	176	172	2	174
ERNEST	184	184	2	184	182	176	2	179	174	171	2	172
SCHOLAR	186	184	2	185	182	179	2	180	175	172	2	174
Reeder	185	183	2	184	182	176	2	179	173	171	2	172
Conan	185	184	2	185	180	177	2	179	171	171	2	171
HANK	183	183	2	183	179	175	2	177	170	170	2	170
OUTLOOK	186	185	2	186	182	178	2	180	176	173	2	175
CHOTEAU	185	183	2	184	182	176	2	179	173	172	2	172
NORPRO	185	184	2	185	182	176	2	179	173	172	2	172
KNUDSON	185	185	2	185	182	178	2	180	174	172	2	173
AVERAGE	185	184	2	184	182	177	2	179	174	172	2	173

ID	DISTRICT 6 SIDNEY IRRIGATED				OVERALL		
	2004	2005	YRS	AVE	AVE	YEARS	RANK
FREYR	177	171	2	174	176	20	4
THATCHER	183	173	2	178	179	20	13
FORTUNA	180	171	2	175	176	20	5
MCNEAL	182	173	2	178	177	20	10
ERNEST	178	171	2	175	177	20	9
SCHOLAR	179	173	2	176	178	20	11
Reeder	179	172	2	175	176	20	3
Conan	178	172	2	175	175	20	2
HANK	173	172	2	173	175	20	1
OUTLOOK	179	173	2	176	178	20	12
CHOTEAU	179	171	2	175	176	20	7
NORPRO	178	172	2	175	176	20	6
KNUDSON	179	172	2	176	177	20	8
AVERAGE	179	172	2	175	177	20	0

TABLE 4. 2004-5 HEIGHT (IN.) SUMMARY OF FREYR COMPARED TO SELECTED VARIETIES, MSU TRIAL DATA

ID	DISTRICT 1 KALISPELL, HIGH RAINFALL				DISTRICT 2 BOZEMAN IRRIGATED				DISTRICT 2 BOZEMAN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	36.6	33.6	2	35.1	38.8	39.1	2	38.9	38.1	34.1	2	36.1
THATCHER	47.9	43.2	2	45.5	46.6	46.3	2	46.5	49.6	42.2	2	45.9
FORTUNA	45.3	38.9	2	42.1	43.1	41.8	2	42.4	44.7	38.7	2	41.7
MCNEAL	36.8	31.0	2	33.9	39.7	38.8	2	39.2	36.5	32.4	2	34.4
ERNEST	40.1	38.7	2	39.4	45.8	44.1	2	44.9	42.9	39.6	2	41.3
SCHOLAR	39.2	39.3	2	39.3	42.7	42.6	2	42.6	42.0	38.4	2	40.2
Reeder	37.6	35.4	2	36.5	40.1	39.6	2	39.8	39.2	34.2	2	36.7
Conan	34.8	33.5	2	34.1	36.1	34.3	2	35.2	36.4	30.5	2	33.4
HANK	34.1	31.1	2	32.6	33.5	34.1	2	33.8	34.5	30.9	2	32.7
OUTLOOK	36.6	32.4	2	34.5	40.6	38.1	2	39.4	36.5	33.2	2	34.9
CHOTEAU	35.4	30.7	2	33.1	36.4	36.9	2	36.6	35.1	32.4	2	33.7
NORPRO	34.7	30.7	2	32.7	34.8	34.2	2	34.5	33.2	30.7	2	32.0
KNUDSON	35.3	32.7	2	34.0	37.9	37.8	2	37.9	36.1	33.4	2	34.7
AVERAGE	38.0	34.7	2	36.4	39.7	39.0	2	39.4	38.8	34.7	2	36.7

ID	DISTRICT 3 HUNTLEY DRYLAND				DISTRICT 3 HUNTLEY IRRIGATED				DISTRICT 4 MOCCASIN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	27.4	39.0	2	33.2	43.4	43.6	2	43.5	36.3	33.1	2	34.7
THATCHER	27.9	44.4	2	36.1	53.1	49.4	2	51.2	38.0	32.6	2	35.3
FORTUNA	24.5	43.2	2	33.8	44.7	45.2	2	44.9	37.7	38.7	2	38.2
MCNEAL	24.9	38.4	2	31.6	40.9	41.8	2	41.4	37.5	30.7	2	34.1
ERNEST	26.3	41.2	2	33.8	48.5	49.3	2	48.9	39.3	34.6	2	37.0
SCHOLAR	24.3	42.3	2	33.3	45.8	46.6	2	46.2	36.4	33.5	2	34.9
Reeder	20.1	37.5	2	28.8	44.8	44.5	2	44.7	32.5	32.3	2	32.4
Conan	20.9	34.3	2	27.6	39.3	39.4	2	39.4	31.9	26.5	2	29.2
HANK	20.3	33.9	2	27.1	39.1	38.8	2	38.9	32.9	28.4	2	30.7
OUTLOOK	24.1	37.8	2	30.9	44.1	43.7	2	43.9	32.5	28.7	2	30.6
CHOTEAU	19.8	34.4	2	27.1	39.9	40.5	2	40.2	32.5	29.5	2	31.0
NORPRO	21.6	34.3	2	28.0	40.7	40.4	2	40.6	29.9	28.3	2	29.1
KNUDSON	21.2	36.4	2	28.8	41.0	42.3	2	41.6	33.8	32.1	2	33.0
AVERAGE	23.3	38.2	2	30.8	43.5	43.5	2	43.5	34.7	31.5	2	33.1

ID	DISTRICT 5 CONRAD DRYLAND				DISTRICT 5 HAVRE DRYLAND				DISTRICT 6 SIDNEY DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	35.0	35.0	2	35.0	30.7	28.6	2	29.7	32.8	28.2	2	30.5
THATCHER	42.0	43.0	2	42.5	36.6	38.1	2	37.4	39.3	36.6	2	38.0
FORTUNA	38.0	42.0	2	40.0	34.0	34.5	2	34.2	37.0	32.6	2	34.8
MCNEAL	34.0	33.0	2	33.5	29.7	28.1	2	28.9	31.0	28.7	2	29.9
ERNEST	39.0	38.0	2	38.5	33.0	34.8	2	33.9	33.7	32.4	2	33.0
SCHOLAR	38.0	37.0	2	37.5	30.8	34.2	2	32.5	35.0	31.6	2	33.3
Reeder	37.0	35.0	2	36.0	31.1	30.5	2	30.8	32.7	30.0	2	31.4
Conan	34.0	30.0	2	32.0	30.4	29.1	2	29.7	29.5	25.1	2	27.3
HANK	34.0	32.0	2	33.0	28.6	29.5	2	29.0	29.7	26.8	2	28.3
OUTLOOK	34.0	34.0	2	34.0	29.9	28.9	2	29.4	32.0	28.2	2	30.1
CHOTEAU	34.0	32.0	2	33.0	28.5	28.3	2	28.4	29.1	25.6	2	27.4
NORPRO	29.0	31.0	2	30.0	28.0	28.8	2	28.4	30.0	25.8	2	27.9
KNUDSON	35.0	35.0	2	35.0	29.2	28.4	2	28.8	30.3	25.8	2	28.1
AVERAGE	35.6	35.2	2	35.4	30.8	30.9	2	30.8	32.5	29.0	2	30.8

ID	DISTRICT 6 SIDNEY IRRIGATED				OVERALL		
	2004	2005	YRS	AVE	AVE	YEARS	RANK
FREYR	35.2	35.1	2	35.2	35.2	20	5
THATCHER	41.9	39.2	2	40.6	41.9	20	1
FORTUNA	38.2	34.4	2	36.3	38.9	20	2
MCNEAL	33.2	33.7	2	33.4	34.0	20	8
ERNEST	37.6	37.8	2	37.7	38.8	20	3
SCHOLAR	31.9	37.2	2	34.5	37.4	20	4
Reeder	35.4	31.2	2	33.3	35.1	20	6
Conan	31.9	27.5	2	29.7	31.8	20	11
HANK	28.3	28.5	2	28.4	31.4	20	12
OUTLOOK	32.0	35.2	2	33.6	34.1	20	7
CHOTEAU	28.9	29.0	2	28.9	31.9	20	10
NORPRO	29.3	29.6	2	29.4	31.3	20	13
KNUDSON	32.0	30.6	2	31.3	33.3	20	9
AVERAGE	33.5	33.0	2	33.3	35.0	20	0

TABLE 5. 2004-5 PROTEIN (%) SUMMARY OF FREYR COMPARED TO SELECTED VARIETIES, MSU TRIAL DATA

ID	DISTRICT 1 KALISPELL, HIGH RAINFALL				DISTRICT 2 BOZEMAN IRRIGATED				DISTRICT 2 BOZEMAN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	14.8	12.8	2	13.8	13.2	14.3	2	13.8	13.3	13.0	2	13.2
THATCHER	14.9	11.8	2	13.4	13.4	15.0	2	14.2	15.3	14.2	2	14.8
FORTUNA	15.1	12.0	2	13.6	14.6	15.0	2	14.8	13.5	13.9	2	13.7
MCNEAL	15.2	12.9	2	14.1	13.2	15.3	2	14.3	14.8	13.3	2	14.1
ERNEST	13.8	12.9	2	13.4	14.3	15.5	2	14.9	15.6	14.8	2	15.2
SCHOLAR	15.1	13.1	2	14.1	14.1	15.8	2	15.0	14.5	14.5	2	14.5
Reeder	14.3	13.5	2	13.9	13.5	15.3	2	14.4	13.5	14.5	2	14.0
Conan	14.8	13.0	2	13.9	14.7	14.5	2	14.6	15.4	14.0	2	14.7
HANK	14.9	12.4	2	13.7	13.8	14.5	2	14.2	12.8	13.9	2	13.4
OUTLOOK	15.2	12.1	2	13.7	12.4	14.3	2	13.4	11.5	13.8	2	12.7
CHOTEAU	14.3	13.2	2	13.8	12.6	14.8	2	13.7	14.5	14.2	2	14.4
NORPRO	14.1	13.0	2	13.6	13.5	14.7	2	14.1	13.1	13.5	2	13.3
KNUDSON	14.0	11.5	2	12.8	13.2	13.7	2	13.5	13.8	13.5	2	13.7
AVERAGE	14.7	12.6	2	13.6	13.6	14.8	2	14.2	14.0	13.9	2	14.0

ID	DISTRICT 3 HUNTLEY DRYLAND				DISTRICT 3 HUNTLEY IRRIGATED				DISTRICT 4 MOCCASIN DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	12.9	14.3	2	13.6	13.4	12.3	2	12.9	17.4	15.9	2	16.7
THATCHER	11.6	16.7	2	14.2	14.5	12.1	2	13.3	19.2	18.1	2	18.7
FORTUNA	11.8	15.4	2	13.6	13.4	13.7	2	13.6	17.8	17.4	2	17.6
MCNEAL	12.2	15.8	2	14.0	13.2	11.4	2	12.3	17.2	18.3	2	17.8
ERNEST	13.0	16.4	2	14.7	13.6	12.4	2	13.0	18.1	17.0	2	17.6
SCHOLAR	11.6	15.4	2	13.5	13.9	12.2	2	13.1	18.3	16.1	2	17.2
Reeder	12.2	14.7	2	13.5	13.9	12.6	2	13.3	18.4	16.7	2	17.6
Conan	13.0	15.5	2	14.3	13.9	12.4	2	13.2	16.6	16.0	2	16.3
HANK	14.9	14.9	2	14.9	13.2	12.2	2	12.7	18.6	16.1	2	17.4
OUTLOOK	12.1	15.1	2	13.6	13.0	11.2	2	12.1	17.0	17.9	2	17.5
CHOTEAU	14.8	15.2	2	15.0	13.2	12.4	2	12.8	16.5	15.2	2	15.9
NORPRO	11.6	15.0	2	13.3	13.3	10.9	2	12.1	16.8	16.8	2	16.8
KNUDSON	13.6	14.2	2	13.9	12.7	11.5	2	12.1	17.7	17.9	2	17.8
AVERAGE	12.7	15.3	2	14.0	13.5	12.1	2	12.8	17.7	16.9	2	17.3

ID	DISTRICT 5 CONRAD DRYLAND				DISTRICT 5 HAVRE DRYLAND				DISTRICT 6 SIDNEY DRYLAND			
	2004	2005	YRS	AVE	2004	2005	YRS	AVE	2004	2005	YRS	AVE
FREYR	12.0	14.0	2	13.0	15.1	12.7	2	13.9	15.1	12.1	2	13.6
THATCHER	10.9	16.3	2	13.6	18.0	14.2	2	16.1	16.0	11.3	2	13.7
FORTUNA	10.3	14.5	2	12.4	15.8	13.0	2	14.4	14.3	12.0	2	13.2
MCNEAL	11.2	14.7	2	13.0	17.2	14.2	2	15.7	14.2	12.1	2	13.2
ERNEST	11.5	16.7	2	14.1	16.9	13.1	2	15.0	15.1	12.1	2	13.6
SCHOLAR	12.0	15.9	2	14.0	17.2	15.3	2	16.3	15.7	11.9	2	13.8
Reeder	10.9	15.3	2	13.1	16.6	13.4	2	15.0	13.4	12.9	2	13.2
Conan	11.7	15.2	2	13.5	16.4	13.7	2	15.1	14.2	12.0	2	13.1
HANK	10.9	15.3	2	13.1	16.6	14.4	2	15.5	14.0	11.5	2	12.8
OUTLOOK	11.7	14.9	2	13.3	15.7	12.7	2	14.2	13.8	12.3	2	13.1
CHOTEAU	10.8	15.3	2	13.1	16.5	12.9	2	14.7	15.5	11.7	2	13.6
NORPRO	10.5	15.2	2	12.9	15.8	12.7	2	14.3	15.9	11.5	2	13.7
KNUDSON	10.4	14.7	2	12.6	16.9	14.4	2	15.7	15.6	11.5	2	13.6
AVERAGE	11.1	15.2	2	13.2	16.5	13.6	2	15.1	14.8	11.9	2	13.4

ID	DISTRICT 6 SIDNEY IRRIGATED				OVERALL		
	2004	2005	YRS	AVE	AVE	YEARS	RANK
FREYR	14.8	11.6	2	13.2	13.8	20	11
THATCHER	12.1	11.0	2	11.6	14.3	20	3
FORTUNA	13.5	12.0	2	12.8	14.0	20	9
MCNEAL	12.9	11.4	2	12.2	14.0	20	6
ERNEST	13.7	12.3	2	13.0	14.4	20	2
SCHOLAR	15.6	14.8	2	15.2	14.7	20	1
Reeder	14.6	12.5	2	13.6	14.1	20	5
Conan	14.5	12.1	2	13.3	14.2	20	4
HANK	14.3	11.4	2	12.9	14.0	20	7
OUTLOOK	14.2	11.9	2	13.1	13.6	20	13
CHOTEAU	14.2	11.2	2	12.7	14.0	20	8
NORPRO	14.5	11.2	2	12.9	13.7	20	12
KNUDSON	13.3	11.9	2	12.6	13.8	20	10
AVERAGE	14.0	12.0	2	13.0	14.0	20	0

TABLE OF PAIRED T-TEST RESULTS

GRAIN YIELD (BU/AC)

REFERENCE MEAN: FREYR 66.6 (N= 20)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 10003	THATCHER	50.9	20	-15.6	-7.5	.000
CI 13596	FORTUNA	60.7	20	-5.8	-4.0	.001
PI574642	MCNEAL	62.9	20	-3.7	-1.7	.112
PI592761	ERNEST	59.2	20	-7.4	-5.4	.000
PI607557	SCHOLAR	61.9	20	-4.7	-3.6	.002
ND 695	Reeder	65.6	20	-1.0	-.8	.424
BZ992588	Conan	62.7	20	-3.9	-3.7	.002
BZ992322	HANK	69.0	20	2.5	1.9	.072
PI632252	OUTLOOK	67.4	20	.8	.5	.600
PI633974	CHOTEAU	64.4	20	-2.2	-1.3	.196
AGRIPRO1	NORPRO	65.9	20	-.7	-.4	.713
AGRIPRO2	KNUDSON	64.5	20	-2.1	-2.9	.010

GRAIN TEST WEIGHT (LB/BU)

REFERENCE MEAN: FREYR 60.9 (N= 20)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 10003	THATCHER	58.1	20	-2.8	-6.9	.000
CI 13596	FORTUNA	60.8	20	-.1	-.4	.668
PI574642	MCNEAL	59.4	20	-1.5	-3.5	.002
PI592761	ERNEST	60.1	20	-.8	-2.9	.009
PI607557	SCHOLAR	60.7	20	-.2	-.8	.413
ND 695	Reeder	60.6	20	-.3	-1.9	.070
BZ992588	Conan	60.1	20	-.8	-3.8	.001
BZ992322	HANK	58.5	20	-2.4	-9.4	.000
PI632252	OUTLOOK	59.1	20	-1.8	-7.1	.000
PI633974	CHOTEAU	60.3	20	-.5	-2.4	.028
AGRIPRO1	NORPRO	59.0	20	-1.8	-3.5	.002
AGRIPRO2	KNUDSON	60.2	20	-.7	-4.5	.000

HEADING DATE (JULIAN DAYS; 175=JUNE 24)

REFERENCE MEAN: FREYR 175.8 (N= 20)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 10003	THATCHER	179.2	20	3.4	9.0	.000
CI 13596	FORTUNA	175.9	20	.1	.4	.687
PI574642	MCNEAL	177.3	20	1.5	5.7	.000
PI592761	ERNEST	176.6	20	.8	3.5	.003
PI607557	SCHOLAR	177.5	20	1.7	10.1	.000
ND 695	Reeder	175.7	20	-.1	-.6	.548
BZ992588	Conan	175.5	20	-.3	-1.7	.111
BZ992322	HANK	174.7	20	-1.1	-3.8	.001
PI632252	OUTLOOK	178.1	20	2.3	9.7	.000
PI633974	CHOTEAU	176.0	20	.2	.9	.369
AGRIPRO1	NORPRO	176.3	20	.5	3.4	.003
AGRIPRO2	KNUDSON	177.0	20	1.2	6.9	.000

TABLE OF PAIRED T-TEST RESULTS (CONT.)

PLANT HEIGHT (INCHES)

REFERENCE MEAN: FREYR 35.2 (N= 20)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 10003	THATCHER	41.9	20	6.7	9.2	.000
CI 13596	FORTUNA	38.9	20	3.7	6.1	.000
PI574642	MCNEAL	34.0	20	-1.1	-4.3	.000
PI592761	ERNEST	38.8	20	3.7	8.1	.000
PI607557	SCHOLAR	37.4	20	2.3	4.2	.000
ND 695	Reeder	35.0	20	-.1	-.2	.814
BZ992588	Conan	31.8	20	-3.4	-6.9	.000
BZ992322	HANK	31.4	20	-3.7	-8.2	.000
PI632252	OUTLOOK	34.1	20	-1.1	-3.0	.007
PI633974	CHOTEAU	31.9	20	-3.2	-7.9	.000
AGRIPRO1	NORPRO	31.2	20	-3.9	-10.5	.000
AGRIPRO2	KNUDSON	33.3	20	-1.9	-5.4	.000

GRAIN PROTEIN (%)

REFERENCE MEAN: FREYR 13.7 (N= 20)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 10003	THATCHER	14.3	20	.6	1.7	.102
CI 13596	FORTUNA	13.9	20	.2	1.0	.345
PI574642	MCNEAL	14.0	20	.3	1.1	.266
PI592761	ERNEST	14.4	20	.7	2.9	.009
PI607557	SCHOLAR	14.6	20	.9	3.8	.001
ND 695	Reeder	14.1	20	.4	2.0	.058
BZ992588	Conan	14.2	20	.4	2.4	.025
BZ992322	HANK	14.0	20	.3	1.4	.186
PI632252	OUTLOOK	13.6	20	-.1	-.6	.588
PI633974	CHOTEAU	13.9	20	.2	1.0	.324
AGRIPRO1	NORPRO	13.7	20	-.1	-.4	.695
AGRIPRO2	KNUDSON	13.8	20	.0	.2	.834

TABLE 6. 2005 MSU LEAF SPOT DATA ON FREYR COMPARED TO SELECTED CHECKS

ENTRY PEDIGREE	Leafspot: Septoria / Tanspot					
	Sidney Score	Havre Score	Conrad Score	Sidney/Havre/Conrad Score Reaction		
56 FREYR	2.0	1.5	1	1.7	R	
1 THATCHER	2.7	2.3	3	3.0	S	
2 FORTUNA	4.6	5.0	4	4.7	VS	
3 MCNEAL	2.0	1.0	1	1.5	R	
4 ERNEST	3.0	2.0	2	2.5	MR	
5 SCHOLAR	3.0	4.5	3	3.6	S	
6 Reeder	3.0	3.0	1	2.8	MR	
7 Conan	3.0	1.5	NA	2.4	MR	
8 HANK	3.3	1.0	3	2.8	MR	
9 OUTLOOK	2.7	1.5	1	2.0	MR	
10 CHOTEAU	2.7	2.5	1	2.2	MR	
11 NORPRO	2.7	4.5	3	3.3	S	
12 KNUDSON	2.7	3.0	1	2.5	MR	
	3 obs.	2 obs.	1 obs.	6 obs.		
Average	3.0	2.7	2	2.8		

Nursery evaluated at Sidney, Havre and Conrad, on 7/18, 7/11, and 7/12, respectively, by V

Reaction & Score: Resistant >=1.0, Moderate Resistant >=2.0, Susceptible >=3.0, Very Susceptible >=4.0

Score = 1-5, Resistant to Very Susceptible Score = 0, NA data not available

2005 MSU STRIPE RUST DATA ON FREYR COMPARED TO SELECTED CHECKS

ENTRY	PEDIGREE	Stripe Rust					
		Kalispell		Huntley		Kalispell+Huntley	
		Score	Reaction	Score	Reaction	Score	Reaction
56 FREYR		2.3	MR	0.0	NA	2.3	MR
1 THATCHER		5.0	VS	3.0	S	4.0	VS
2 FORTUNA		3.0	S	3.0	S	3.0	S
3 MCNEAL		5.0	VS	4.0	VS	4.5	VS
4 ERNEST		5.0	S	2.7	MR	3.7	S
5 SCHOLAR		3.0	S	1.0	R	3.3	S
6 Reeder		2.3	MR	2.3	MR	2.3	MR
7 Conan		2.0	MR	0.0	NA	2.0	MR
8 HANK		4.0	VS	4.0	VS	4.0	VS
9 OUTLOOK		3.2	S	2.0	MR	3.3	S
10 CHOTEAU		2.7	MR	1.3	R	1.7	R
11 NORPRO		5.0	VS	4.5	VS	4.8	VS
12 KNUDSON		4.0	VS	2.0	MR	3.0	S
		3 obs		3 obs		6 obs	
Average		3.7		2.5		3.3	

Nursery evaluated at Kalispell (Grey) and Huntley (Dyer&Johnston) on 7/26 and 7/21, respectively.

Reaction & Score: Resistant >=1.0, Moderate Resistant >=2.0, Susceptible >=3.0, Very Susceptible >=4.0

Score 1-5, Resistant - Very Susceptible, Score = 0, NA data not available

TABLE 7. QUALITY SUMMARY - MEANS ACROSS LOCATIONS, MSU DATA

VARIETY	GRAIN PROTEIN (%)	FLOUR PROTEIN (%)	FLOUR YIELD (%)	FLOUR ASH (%)	MIXOGRAPH TOLERANCE	MIXOGRAPH MIXTIME (MIN.)	MIXOGRAPH WATER ABS. (%)	BAKE MIX TIME (MIN.)	BAKE WATER ABS. (%)	LOAF VOLUME (CC.)	CRUMB GRAIN SCORE
FREYR	15.2	13.0	68.4	0.39	5.3	4.3	63.3	6.7	74.4	1129	3.3
THATCHER	16.7	14.4	65.5	0.43	4.8	4.8	66.9	9.8	77.4	1249	3.8
FORTUNA	15.6	13.2	69.8	0.41	4.0	3.3	63.4	4.9	73.1	1161	3.5
MCNEAL	15.5	13.0	65.4	0.40	6.3	8.2	63.8	15.0	77.2	1202	3.0
ERNEST	16.1	13.5	68.3	0.40	5.5	4.3	64.3	10.9	74.8	1189	4.0
SCHOLAR	16.4	13.7	69.3	0.41	5.3	3.2	64.2	5.6	73.8	1166	3.3
Reeder	15.5	13.1	66.5	0.38	4.5	3.4	63.4	4.9	73.1	1086	3.0
Conan	15.9	12.7	65.6	0.39	4.8	5.6	62.2	9.4	73.8	1172	3.8
HANK	15.8	13.1	67.2	0.38	4.8	6.3	62.5	9.2	72.7	1170	3.8
OUTLOOK	14.8	12.4	67.2	0.40	4.8	4.5	62.4	7.1	72.6	1129	3.0
CHOTEAU	15.3	13.1	66.6	0.37	5.0	3.7	63.1	6.0	72.7	1157	3.3
NORPRO	15.5	12.8	65.1	0.41	5.5	4.4	64.2	8.4	75.0	1161	3.3
KNUDSON	15.8	13.3	67.7	0.42	6.5	9.3	66.9	23.3	79.7	1126	2.8
NURSERY AVERAGE	15.4	13.1	67.2	0.40	5.0	4.8	63.6	8.9	74.2	1159.0	3.4

TABLE 8. 2001-2005 AgriPro Spring Wheat Quality Comparisons on Freyr

Year-Loc	Flour/Wheat Quality					Mixogram			Baking Quality			Crumb		
	Wht Prot	Flr Prot	Norris Hrd	Flr Yld	Ash	Peak Time	Peak Ht.	Tol.	Bake Abs	BakeMix Time	Loaf Vol	Grain	Tex	Color
	14% m	14% m		%	14% m	min	N.U.	mm	%	min	cc	R	R	R
FREYR														
2005 - MI	14.8	13.9	89	72.0		3.00	5.3	998	68.0	2.40	950	5	3	4
2005 - ARPR	15.2	13.8	63	71.6	0.465	2.50	5.3	934	66.0	2.90	1055	4	3	3
2004 - BKPR	14.6	13.8	88	72.5	0.424	3.50	5.0	1208	69.5	3.30	980	4	3	3
2003 - BKPR	14.6	13.5	69	72.1	0.398	2.75	5.3	947	67.0	2.50	1040	4	3	4
2002 - MW	14.9	14.0	70	68.6	0.431	5.00	5.3	1262	68.5	6.00	1060	4	3	4
2001 - MW	14.3	13.2	76	69.3	0.373	4.00	5.0	1151	64.0	4.00	1000	4	3	4
Average:	14.7	13.7	76	71.0	0.418	3.46	5.2	1083	67.2	3.52	1014	4	3	4
REEDER														
2005 - MI	14.5	13.5	71	71.8		3.00	5.0	846	68.0	2.40	935	6	3	5
2005 - ARPR	15.0	13.7	47	69.4	0.474	3.00	5.0	890	66.0	2.60	1105	7	3	5
2004 - BKPR	14.9	13.6	83	69.4	0.401	3.25	5.0	1269	68.0	3.10	1045	5	3	4
2003 - BKPR	14.7	13.7	53	70.6	0.389	3.00	5.3	877	67.0	3.00	995	5	3	4
2002 - MW	15.1	14.2	54	69.2	0.443	4.00	5.3	1165	67.5	5.80	1110	6	2	3
2001 - MW	15.2	14.0	62	69.5	0.361	3.50	5.0	1100	65.0	3.50	1075	5	2	3
Average:	14.9	13.8	62	70.0	0.414	3.29	5.1	1025	66.9	3.40	1044	6	3	4
FREYR														
2005 - ARPR	15.2	13.8	63	71.6	0.465	2.50	5.3	934	66.0	2.90	1055	4	3	3
2004 - BKPR	14.5	13.4	83	72.9		3.00	5.0	1186	68.5	2.90	900	5	3	3
2004 - BKPR	14.6	13.8	88	72.5	0.424	3.50	5.0	1208	69.5	3.30	980	4	3	3
2003 - BKPR	14.6	13.5	69	72.1	0.398	2.75	5.3	947	67.0	2.50	1040	4	3	4
2002 - MW	14.9	14.0	70	68.6	0.431	5.00	5.3	1262	68.5	6.00	1060	4	3	4
2001 - MW	14.3	13.2	76	69.3	0.373	4.00	5.0	1151	64.0	4.00	1000	4	3	4
Average:	14.7	13.6	75	71.2	0.418	3.46	5.1	1115	67.3	3.60	1006	4	3	4
ALSEN														
2005 - ARPR	15.5	14.1	64	69.9	0.496	3.25	5.3	1278	67.0	3.10	1150	4	3	3
2004 - BKPR	14.7	13.5	88	70.2		4.00	5.0	1226	70.0	3.60	910	4	3	3
2004 - BKPR	14.8	13.9	88	71.7	0.436	3.75	5.3	1393	68.5	3.30	1045	3	2	3
2003 - BKPR	15.4	13.8	79	71.4	0.404	3.75	5.5	892	69.5	3.30	1100	4	3	3
2002 - MW	15.5	14.3	68	67.1	0.466	6.25	5.3	1256	68.5	8.00	990	3	3	3
2001 - MW	14.7	13.8	70	68.5	0.401	4.50	5.0	1124	65.0	4.50	1030	4	3	3
Average:	15.1	13.9	76	69.8	0.441	4.25	5.2	1195	68.1	4.30	1			BUCKY