



2016 SPRING BARLEY REPORT



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Department of Research Centers

2016 Spring Barley Report

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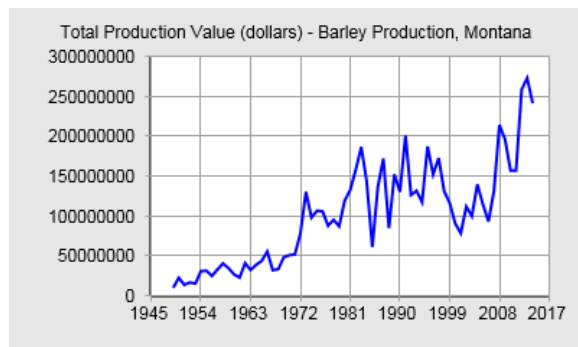
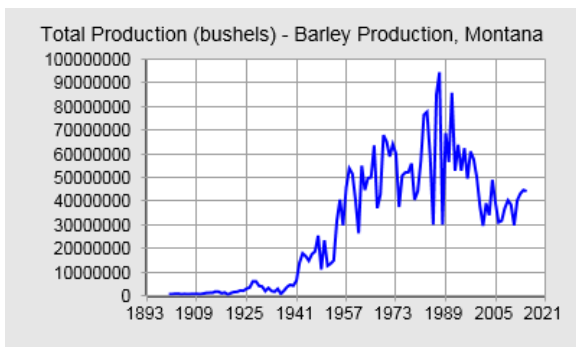
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* Due to a gap in the breeding pipeline EYT and Intrastate contain material from the same generation. Means in this report are combined for rank comparison.

2016 USDA Montana Barley Statistics

Statewide Production		Value
BARLEY - ACRES PLANTED		928,000
BARLEY - ACRES HARVESTED		770,000
BARLEY - PRODUCTION, MEASURED IN BU		46,800,000
BARLEY - YIELD, MEASURED IN BU / ACRE		60
 Nationwide Production		
BARLEY - ACRES PLANTED		2.97 million
Change since 2015		-17%



Country/Region	Area (Million hectares)				Yield (Metric tons per hectare)			
			2016/17 Proj.				2016/17 Proj.	
	2014/15	Prel. 2015/16	Oct	Nov	2014/15	Prel. 2015/16	Oct	Nov
World	49.58	50.08	48.87	48.87	2.86	2.97	2.94	2.95
United States	1.01	1.28	1.04	1.04	3.91	3.72	4.19	4.19
Total Foreign	48.57	48.80	47.84	47.84	2.84	2.95	2.91	2.92
European Union	12.42	12.19	12.47	12.47	4.88	5.05	4.78	4.79

Country/Region	Production (Million metric tons)				Change in Production			
			2016/17 Proj.		From last month		From last year	
	2014/15	Prel. 2015/16	Oct	Nov	MMT	Percent	MMT	Percent
World	141.80	148.66	143.75	144.01	0.25	0.18	-4.66	-3.13
United States	3.95	4.75	4.34	4.34	0.00	0.00	-0.41	-8.65
Total Foreign	137.84	143.91	139.41	139.67	0.25	0.18	-4.25	-2.95
European Union	60.66	61.52	59.58	59.74	0.16	0.27	-1.78	-2.89

MSU Barley Production Guide:

<http://agresearch.montana.edu/wtarc/producerinfo/agronomy-nutrient-management/Barley/MTBarleyProdGuide.pdf>

Variety Performance - Bozeman Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian	Maturity julian
Balster	92.3	12.9	54.6	87.7	58.9	179	204
Champion	102.9	13.4	56.6	91.8	62.6	177	209
Copeland	90.3	13.9	54.6	90.6	61.2	180	207
Genie	90.7	12.8	55.8	94.3	54.8	181	210
Growler	78.4	13.5	53.6	90.0	57.4	177	205
Harrington	89.6	13.9	55.7	92.7	61.6	177	207
Haxby	82.9	13.6	56.6	89.2	62.0	175	202
Hockett	94.9	13.2	56.2	92.8	66.2	177	204
Metcalfe	81.1	13.8	55.2	90.2	67.5	176	202
Odyssey	101.8	12.6	55.6	101.6	57.0	180	211
Overture	81.7	13.6	55.5	94.7	57.4	183	209
Synergy	92.6	12.7	54.9	91.8	63.7	177	204
Vespa	82.2	13.5	54.8	85.7	52.1	181	207
Westminster	89.4	13.7	55.7	92.8	59.9	180	206
GRAND MEAN	89.3	13.4	55.4	91.8	60.2	178.5	206.2
CV	7.95	4.52	1.26	5.22	4.65	0.48	0.87
LSD	14.99	1.27	1.51	10.33	6.13	1.83	3.87

Variety Performance - Broadview Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm
Champion	19.7	8.8	52.2	76.2	43.7
Conlon	15.9	9.8	51.1	95.7	45.0
Conrad	13.8	9.9	50.0	87.9	44.3
Copeland	19.5	8.7	51.1	91.2	40.0
Craft	16.5	9.8	51.6	90.8	46.7
Eslick	17.3	8.5	51.2	58.2	34.0
Genesis	17.5	9.3	50.6	84.8	46.7
Harrington	14.8	8.9	51.6	89.1	44.3
Haxby	15.7	9.1	54.4	91.1	45.7
Hockett	15.9	8.8	53.0	92.9	43.3
Lavina	11.2	9.4	46.0	64.8	41.7
Metcalfe	17.3	8.9	52.3	86.9	42.7
Moravian 150	17.1	9.2	50.6	88.7	39.3
Moravian 153	20.1	8.7	48.9	75.4	42.7
Moravian 69	18.2	9.0	49.7	81.7	38.7
Moravian115	18.1	9.2	50.8	94.1	34.3
MT090182	16.8	9.1	51.0	81.9	47.0
MT090190	16.9	9.2	52.4	87.7	45.0
MT100120	15.1	9.5	51.7	87.6	45.3
MT100126	12.2	9.2	52.1	87.7	45.7
MT124555	17.1	8.8	52.5	92.1	45.7
Pinnacle	15.1	9.8	52.1	92.8	42.0
Rawson	14.6	10.6	50.6	93.4	45.0
Stepford	14.6	10.8	46.8	90.0	43.3
Stockford	14.4	9.0	49.8	92.0	45.7
GRAND MEAN	16.22	9.28	50.97	86.18	43.11
CV	16.21	3.99	2.21	3.21	10.16
LSD	5.76	0.81	2.47	6.05	9.59

Variety Performance - Conrad Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian
Balster	107.4	9.2	51.3	98.5	59.3	174
Champion	106.1	11.1	54.6	98.3	65.9	172
Copeland	100.3	10.0	53.6	98.2	60.9	178
Genie	107.3	9.1	53.4	97.9	59.2	176
Growler	117.0	8.9	52.3	98.7	63.4	174
Harrington	98.2	9.4	53.7	98.4	59.2	174
Haxby	107.5	11.6	55.0	98.5	70.1	173
Hockett	106.6	10.3	54.2	99.2	62.9	171
Metcalfe	97.1	10.3	53.1	98.1	63.5	173
Odyssey	120.0	8.6	52.2	98.5	58.5	178
Overture	104.8	8.5	52.1	97.3	56.6	176
Synergy	107.6	9.6	51.9	98.9	61.9	173
Vespa	110.4	9.5	52.8	98.7	60.2	178
Westminster	103.5	9.4	53.3	98.2	60.0	175
GRAND MEAN	106.7	9.7	53.1	98.4	61.5	174.6
CV	11.71	6.35	1.27	0.52	8.52	0.9
LSD	25.36	1.34	1.46	1.09	11.54	3.36

Variety Performance - Devon Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm
Champion	73.7	11.0	50.9	90.9	54.2
Conrad	70.7	10.9	50.0	94.6	53.3
Harrington	59.8	10.7	49.5	82.1	52.5
Haxby	59.4	10.8	51.0	84.7	57.6
Haybet	52.6	10.6	48.1	72.6	63.5
Hays	68.7	10.5	47.6	74.9	49.1
Hockett	67.1	10.2	49.5	89.0	57.6
Lavina	64.8	9.3	49.1	84.8	54.2
Merit	66.4	10.0	48.3	90.3	50.8
Metcalfe	62.7	10.7	49.5	88.4	55.0
Moravian115	67.4	11.0	48.2	90.3	41.5
MT090182	68.1	9.6	50.3	93.4	58.4
MT090190	60.7	9.7	50.0	95.2	54.2
MT100120	68.0	9.7	50.7	95.1	57.5
MT100126	60.7	10.4	49.7	91.4	58.4
MT124555	66.7	10.7	51.6	95.0	52.5
GRAND MEAN	64.9	10.4	49.6	88.3	54.4
CV	8.7	6.6	2.7	7.8	5.1
LSD	12.7	1.5	3.0	15.4	6.2

Variety Performance - Dillon Irrigated

	Yield bu/ac	Protein %	Test Weight lb/bu	Height cm
Champion	146.1	12.1	52.5	73.4
Moravian115	131.5	13.2	46.1	58.4
Odyssey	138.2	12.0	49.4	61.0
Eslick	125.9	12.7	52.1	68.1
Haxby	131.9	12.0	53.3	70.4
Harrington	129.7	13.3	49.7	71.1
MT124555	135.7	12.1	52.0	71.4
Conrad	126.8	14.0	51.7	73.4
Hays	129.0	13.2	47.9	74.9
Lavina	79.5	13.7	48.3	74.9
MT090190	117.6	12.0	52.5	74.9
Synergy	125.7	12.3	52.1	76.2
Metcalfe	130.8	12.6	52.8	76.5
Hockett	119.1	12.7	52.8	77.0
Voyager	141.2	12.6	52.3	77.5
Rawson	122.8	12.6	49.6	78.2
Pinnacle	118.5	6.9	53.0	78.5
Craft	127.3	12.8	53.4	79.0
MT100126	128.2	11.0	52.5	79.5
Merit	136.3	13.2	47.3	80.3
MT100120	126.7	11.8	52.6	80.5
Genesis	129.4	11.5	52.0	81.5
Stockford	26.1	13.4	43.3	83.6
Stepford	134.7	12.9	48.0	84.6
Haybet	107.2	14.6	45.5	85.1
GRAND MEAN	122.7	12.5	50.5	75.6
CV	15.7	11.4	4.2	6.6
LSD	42.2	3.1	4.6	4.3

Variety Performance - Fromberg Irrigated

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Lodging %
Champion	130.8	12.8	52.4	95.2	108.7	60
Conlon	79.7	13.6	53.8	99.0	102.7	60
Conrad	120.5	13.7	51.5	91.5	99.7	50
Copeland	122.1	13.0	51.0	91.1	105.7	70
Craft	91.1	14.8	50.8	86.7	109.7	80
Eslick	141.5	11.5	52.9	90.5	98.7	50
Genesis	107.0	12.6	52.4	98.3	105.0	60
Harrington	97.4	12.9	47.7	83.6	100.7	70
Haxby	114.8	12.7	53.4	95.3	104.0	70
Hockett	113.3	12.4	51.8	92.1	96.0	60
Lavina	93.0	14.0	45.1	64.1	109.7	70
Metcalfe	106.7	12.7	51.9	93.3	105.3	60
Moravian 115	110.3	12.3	46.8	86.8	86.7	40
Moravian 150	136.2	12.5	50.4	95.5	87.7	40
Moravian 153	148.5	11.3	49.6	90.0	88.7	30
Moravian 69	142.1	12.0	49.5	88.9	88.0	40
MT090182	112.3	12.7	50.6	86.0	108.7	80
MT090190	123.4	11.7	52.0	91.5	107.0	70
MT100120	124.9	11.8	51.6	92.7	103.7	70
MT100126	124.4	11.2	53.5	97.1	105.7	60
MT124555	112.1	13.5	51.9	87.5	107.0	70
Pinnacle	128.1	11.6	51.5	98.3	105.7	40
Rawson	101.6	12.7	50.9	97.9	111.0	60
Stepford	93.9	14.9	42.9	81.5	111.3	80
Stockford	120.2	12.4	49.0	92.8	115.3	70
GRAND MEAN	115.8	12.7	50.6	90.7	102.9	60.4
CV	9.8	6.4	2.6	6.4	3.7	24.0
LSD	25.0	1.8	2.9	12.6	8.2	3.2

Variety Performance - Geraldine Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian
Champion	87.7	10.1	57.4	91.4	54.3	176
Conlon	67.7	11.9	54.9	94.7	45.7	174
Conrad	86.9	11.9	55.0	94.2	55.7	177
Craft	64.3	12.1	56.3	92.7	61.7	177
Eslick	106.0	11.2	55.6	88.7	47.7	176
Genesis	75.8	10.4	55.9	90.0	56.0	176
Harrington	78.2	11.6	56.5	92.0	53.0	177
Haxby	79.3	10.9	57.1	91.7	54.0	175
Haybet	58.1	12.1	54.7	69.7	60.7	177
Hays	89.1	10.9	54.1	87.2	58.0	177
Hockett	84.1	10.5	58.3	95.1	49.7	176
Lavina	87.0	10.9	53.4	76.7	59.7	177
Merit	84.1	11.2	56.2	87.9	50.7	177
Metcalfe	79.1	11.7	56.1	91.9	55.3	176
Moravian115	91.5	10.8	55.9	92.2	45.0	177
MT090182	81.6	9.6	55.5	89.8	58.3	177
MT090190	82.5	10.2	55.2	90.9	60.7	177
MT100120	82.9	10.1	55.4	89.9	62.7	177
MT100126	71.9	11.1	55.5	89.0	61.7	178
MT124555	87.2	10.7	55.9	94.4	52.3	176
Overature	90.9	11.4	57.3	93.5	50.0	178
Pinnacle	75.8	10.8	56.1	94.0	60.0	176
Rawson	63.5	12.0	56.6	89.0	58.0	176
Stepford	69.6	11.7	50.7	93.1	64.0	174
Stockford	84.1	10.9	54.0	93.7	63.3	177
GRAND MEAN	80.4	11.1	55.6	90.1	55.9	176.5
CV	8.1	6.1	1.2	6.1	6.3	0.3
LSD	14.2	0.0	1.9	0.0	7.7	1.2

Variety Performance - Havre Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian
Balster	88.2	14.0	52.0	91.9	66.5	181
Champion	94.9	13.3	53.2	91.2	70.4	179
Copeland	82.0	12.6	52.0	91.6	65.0	182
Genie	86.9	13.3	52.1	95.6	58.7	183
Growler	81.7	13.5	52.6	89.6	67.4	181
Harrington	85.6	15.0	53.1	92.5	68.7	181
Haxby	80.8	14.2	52.5	90.7	68.1	178
Hockett	97.0	14.1	52.9	95.8	70.4	179
Metcalfe	76.1	13.7	52.7	91.8	73.5	179
Odyssey	90.3	14.8	53.0	97.8	64.7	183
Overture	85.3	12.6	51.9	95.9	62.1	183
Synergy	86.9	13.2	53.0	93.6	71.2	181
Vespa	95.9	13.4	52.6	95.2	61.1	181
Westminster	90.2	13.3	52.4	94.8	66.9	183
GRAND MEAN	87.3	13.6	52.6	93.4	66.8	181.0
CV	6.33	5.36	2.6	1.3	4.91	0.56
LSD	11.15	1.57	2.94	2.57	7.15	2.18

Variety Performance - Highland Dryland Acid Soils

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian
Champion	38.5	8.4	55.5	89.0	38.0	175
Conlon	26.4	11.1	52.0	76.8	44.5	175
Conrad	36.3	10.2	54.8	86.2	35.7	176
Hockett	40.2	11.3	55.6	86.3	41.0	174
Craft	39.1	10.2	56.2	90.1	38.5	175
Lavina	37.6	9.7	54.7	70.0	41.3	175
Harrington	46.1	9.7	56.3	89.1	39.3	175
Haxby	38.6	10.1	56.0	90.1	36.5	174
Haybet	32.3	11.8	54.2	69.1	47.0	175
Hays	40.9	9.9	54.2	78.7	39.3	176
Hockett	42.1	10.6	56.3	94.0	43.7	175
Merit 57	42.9	8.9	55.8	86.3	45.5	176
Metcalfe	31.0	9.5	55.7	90.3	42.7	176
Moravian	31.7	9.3	54.8	95.2	33.0	176
MT090182	38.0	9.2	54.1	88.1	47.5	176
MT090190	29.6	11.7	54.4	88.2	45.3	176
MT100120	40.3	9.5	53.9	88.5	44.7	176
MT100126	22.5	12.9	52.0	87.2	41.5	177
MT124555	20.2	13.2	53.3	89.8	37.0	176
Stockford	18.6	12.3	50.3	93.6	44.0	176
GRAND MEAN	34.6	10.5	54.5	86.3	41.3	175.5
CV	16.6	12.5	2.0	8.1	9.4	0.4
LSD	12.9	0.0	3.2	0.0	8.7	1.6

Variety Performance - Huntley Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian
Champion	100.4	14.8	53.7	90.5	97.8	157
Conlon	52.7	16.5	51.6	96.1	100.2	153
Conrad	97.4	15.0	52.2	95.0	93.4	162
Copeland	105.0	15.0	52.7	95.8	96.9	161
Craft	79.0	16.1	52.7	92.8	101.8	159
Eslick	111.2	14.2	53.1	86.5	88.6	164
Genesis	65.2	14.1	51.4	91.2	105.9	156
Harrington	88.0	16.0	51.9	90.1	99.5	160
Haxby	76.4	16.2	54.1	89.2	102.1	158
Hockett	76.4	15.5	51.8	92.2	100.5	158
Lavina	74.2	17.1	49.7	78.2	108.4	156
Metcalfe	85.9	15.2	53.2	92.1	100.9	158
Moravian 150	109.2	14.7	51.7	93.3	76.6	161
Moravian 153	124.7	13.9	52.2	93.9	77.1	163
Moravian 69	122.1	13.4	51.9	93.7	77.6	164
Moravian115	98.7	15.3	49.5	89.0	70.0	164
MT090182	95.1	12.8	51.8	93.4	95.6	161
MT090190	93.6	13.6	52.6	90.9	96.7	160
MT100120	91.3	13.2	52.3	93.0	96.4	159
MT100126	89.1	13.5	51.6	91.5	93.0	161
MT124555	96.9	15.5	53.6	92.5	95.5	161
Pinnacle	82.5	13.2	51.4	95.7	96.4	158
Rawson	75.0	14.5	49.8	95.4	107.3	155
Stepford	50.0	15.5	44.9	79.2	114.9	155
Stockford	76.0	14.9	49.2	92.5	116.1	157
GRAND MEAN	88.64	14.79	51.62	91.34	96.37	159.2
CV	5.75	4.29	1.69	2.14	2.79	1.06
LSD	11.17	1.39	1.92	4.27	5.89	3.7

Variety Performance - Hysham Irrigated

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Lodging
Champion	123.8	12.5	52.4	89.8	109.0	40
Conlon	80.6	13.4	52.7	98.6	108.3	20
Conrad	118.5	13.7	52.5	96.9	97.3	30
Copeland	100.1	13.3	51.2	89.5	105.3	50
Craft	101.7	13.2	50.4	95.9	110.3	20
Eslick	108.7	13.0	52.3	86.1	101.3	70
Genesis	97.9	12.1	50.5	96.4	109.0	30
Harrington	113.0	13.1	50.1	92.0	106.7	30
Haxby	102.1	13.3	52.6	90.6	111.0	60
Hockett	110.8	13.3	51.1	84.3	104.7	60
Metcalfe	102.0	14.4	51.3	83.1	105.7	70
Moravian 150	143.2	11.4	51.9	97.0	84.3	20
Moravian 153	142.3	11.6	50.6	87.9	82.3	40
Moravian 69	147.4	11.0	51.4	92.6	82.3	40
Moravian115	135.4	12.1	51.0	97.2	78.3	30
MT090182	116.9	11.7	52.6	94.3	104.3	20
MT090190	118.4	11.9	52.5	93.1	102.0	20
MT100120	116.9	11.4	52.7	95.0	106.0	10
MT100126	111.3	11.5	53.2	96.7	106.7	0
MT124555	113.8	12.4	52.9	95.3	100.0	20
Pinnacle	112.2	11.3	51.2	97.2	107.3	10
Rawson	91.4	12.6	51.2	97.2	112.7	30
GRAND MEAN	114.02	12.46	51.73	93.03	101.59	31.5
CV	10.5	5.09	1.88	3.95	3.46	51.4
LSD	26.41	1.4	2.14	8.09	7.75	3.57

Variety Performance - Kalispell Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian
Champion	79.2	9.7	55.1	98.1	70.0	176
Conlon	72.7	10.2	51.5	99.2	66.7	169
Conrad	76.6	9.5	53.4	98.2	68.3	177
Copeland	89.7	9.6	53.8	98.1	75.3	177
Craft	87.1	9.5	54.0	98.4	77.7	173
Eslick	89.5	8.8	53.1	97.1	63.7	178
Harrington	81.8	9.5	54.7	97.9	73.3	177
Haxby	100.9	9.7	55.0	98.2	76.7	171
Haybet	56.0	9.9	52.1	91.1	72.7	175
Hays	83.6	9.9	51.1	90.8	66.7	178
Hockett	111.0	9.9	54.9	98.6	76.7	176
Lavina	80.6	10.2	51.6	89.0	72.0	175
Merit	105.7	9.3	53.9	97.1	77.3	179
Metcalfe	83.5	9.8	53.9	96.6	74.7	176
Moravian115	89.9	9.3	52.7	98.6	54.7	179
MT090182	87.1	8.9	53.0	97.9	77.7	177
MT090190	107.3	9.5	54.3	97.7	76.0	178
MT100120	80.5	8.4	53.7	98.3	69.3	178
MT100126	59.3	6.1	36.3	65.3	69.3	179
MT124555	85.3	9.1	54.1	98.6	64.7	175
Pinnacle	79.5	9.2	54.0	98.7	70.7	175
Stepford	90.3	10.4	48.0	96.4	79.3	172
Stockford	69.1	10.1	51.3	95.7	70.0	176
Synergy	102.4	9.8	52.8	98.3	74.3	177
GRAND MEAN	85.35	9.44	52.43	95.58	71.57	176.0
CV	27.91	13.96	12.34	12.16	8.11	0.75
LSD	52.26	2.89	14.19	25.5	12.73	2.9

Variety Performance - Moccasin Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian	Maturity julian
Champion	57.6	14.4	55.3	85.1	55.7	173	206
Conlon	41.5	15.2	53.2	76.8	55.3	171	205
Conrad	46.5	16.3	54.2	65.3	55.7	174	206
Craft	40.5	14.9	56.3	75.9	55.3	173	207
Eslick	70.9	13.4	55.8	90.6	55.3	176	208
Genesis	42.2	13.3	54.7	84.4	60.7	173	207
Harrington	46.8	15.3	53.7	40.8	55.0	174	205
Haxby	60.0	13.6	56.5	87.6	57.0	173	205
Haybet	36.7	16.4	52.3	30.2	57.7	174	204
Hays	53.4	15.9	53.9	74.8	52.3	175	207
Hockett	59.3	13.8	56.1	32.3	59.0	174	208
Lavina	59.8	14.3	53.0	21.0	61.7	174	207
Merit	52.2	16.5	53.7	43.3	56.0	175	207
Metcalfe	48.4	15.3	55.4	89.2	58.3	174	207
Moravian115	39.1	15.4	52.7	73.4	48.7	176	206
MT090182	59.1	13.3	55.6	85.5	58.7	175	208
MT090190	54.4	12.7	56.8	86.3	61.7	176	208
MT100120	46.7	12.8	55.6	61.2	58.3	174	207
MT100126	56.2	12.8	56.5	95.1	63.7	175	209
MT124555	45.9	14.8	54.1	66.1	53.0	175	206
Overature	58.8	13.2	55.2	86.9	49.0	177	209
Pinnacle	48.9	13.6	55.7	96.5	58.0	173	208
Rawson	49.5	13.3	56.3	94.3	59.7	173	208
Stepford	45.8	13.8	49.2	89.7	61.0	173	207
Stockford	64.1	13.1	54.7	93.0	59.3	175	209
GRAND MEAN	51.4	14.3	54.6	73.0	57.0	174.2	207.1
CV	19.2	8.3	2.4	30.2	9.8	0.5	0.7
LSD	21.6		3.7		12.3	1.9	3.0

Variety Performance - Sidney Dryland

	Yield bu/ac	Protein %	Test Weight lb/bu	Plump %	Height cm	Heading julian
Balster	94.5	11.3	51.2	93.7	69.0	166
Champion	117.9	11.8	55.0	97.5	78.0	165
Copeland	115.9	12.0	53.3	95.0	74.3	167
Genie	114.7	10.9	52.8	92.6	66.7	167
Growler	87.5	11.9	52.6	93.7	62.0	168
Harrington	100.0	12.2	53.1	94.4	66.3	167
Haxby	111.1	11.9	55.2	97.4	62.0	165
Hockett	109.6	10.4	53.8	96.1	61.7	166
Metcalfe	95.5	12.1	53.6	95.4	67.3	165
Odyssey	119.1	10.8	52.3	92.4	67.7	167
Overture	113.3	11.5	53.1	79.3	72.7	169
Synergy	104.9	11.4	52.4	95.7	71.3	167
Vespa	98.5	11.0	52.6	97.2	62.7	167
Westminster	114.4	12.2	53.4	95.9	71.0	166
GRAND MEAN	107.9	11.5	53.3	94.0	68.0	166.7
CV	10.41	7.25	1.33	2.29	8.36	0.54
LSD	22.74	1.78	1.52	4.65	12.52	1.92

Intrastate Irrigated 2016 Statewide Summary

	Yield bu/ac	Test Weight lb/bu	Protein %	Plump %	Height cm	Heading julian	Maturity julian
Balster	116.4	52.4	10.7	96.0	75.3	168	210
Champion	110.8	54.2	10.7	94.7	78.9	167	210
Copeland	117.4	53.9	10.8	96.6	81.1	170	211
Genie	127.3	53.7	10.0	95.7	69.1	171	212
Growler	120.2	52.3	10.5	95.2	78.4	168	211
Harrington	105.3	54.0	10.7	95.7	78.1	168	210
Haxby	103.6	54.8	11.3	96.0	78.8	166	207
Hockett	108.0	54.0	11.1	94.9	77.4	167	208
Metcalfe	103.4	54.0	11.1	94.9	82.9	166	208
Odyssey	130.4	52.6	10.0	95.5	67.8	172	215
Overture	130.3	52.6	9.7	95.9	69.9	171	214
Sirish	121.0	53.0	10.6	95.8	69.1	170	212
Synergy	107.2	52.5	10.6	97.1	80.6	168	208
Vespa	130.1	53.3	10.0	95.4	67.9	171	211
Westminster	120.0	53.6	10.3	97.7	72.6	171	212
08ARS012-79	111.0	53.6	10.6	94.3	76.8	166	209
08ARS028-20	120.0	53.2	10.1	94.8	73.2	169	211
08ARS116-91	116.6	53.3	10.6	93.5	75.9	165	210
10WA-117.17	108.2	53.4	10.8	93.9	80.1	168	211
10WA-117.24	89.7	52.1	11.4	95.7	82.9	168	210
11WA-107.43	111.5	54.3	10.9	95.1	77.0	166	210
ME08032-156	121.6	53.5	10.5	96.8	68.2	168	211
ME08053-050	114.2	53.3	11.7	95.6	77.9	166	208
MT080087	114.0	54.1	10.8	96.9	72.1	171	210
MT080112	116.5	54.5	10.6	96.9	80.1	169	210
MT080243	109.3	53.6	10.5	92.8	79.4	168	208
MT080370	101.6	53.4	11.2	83.1	83.9	167	209
MT090182	109.7	53.7	9.7	95.2	80.3	168	214
MT090190	115.4	53.9	9.8	96.3	81.8	168	214
MT090193	109.4	53.2	10.1	96.6	80.3	169	214
MT100120	110.1	53.8	9.8	96.8	83.0	169	214
MT100126	111.2	53.9	10.0	95.8	82.2	171	214
MT124016	117.8	53.4	10.0	94.2	76.2	167	210
MT124069	109.7	53.1	10.3	96.3	80.3	171	211
MT124073	108.6	53.5	10.6	95.9	82.8	169	212
MT124112	104.5	53.0	10.3	96.1	78.0	165	209
MT124118	108.0	54.7	10.9	95.5	78.3	166	208
MT124243	120.2	53.2	9.8	95.4	82.6	168	212
MT124411	96.3	53.7	11.0	95.1	78.1	167	211
MT124454	109.3	54.8	11.3	96.5	79.3	166	207
MT124457	112.7	55.0	11.4	85.3	79.1	166	206
MT124555	116.9	54.4	10.4	97.0	78.9	168	211
MT124582	105.9	54.1	11.3	94.8	77.4	165	208
MT124645	104.7	53.5	10.3	96.1	79.6	168	209
MT124663	94.3	53.3	11.0	97.3	77.6	166	214
MT124673	96.9	53.7	10.8	95.5	74.1	164	211
MT124688	119.1	54.3	9.8	95.7	80.3	167	212
MT124716	110.3	53.7	11.1	95.4	78.9	168	209
MT124728	111.9	53.6	11.5	94.3	78.3	167	209
GRAND MEAN	112.0	53.6	10.6	95.2	77.6	167.8	210.5

EYT Irrigated 2016 Statewide Summary

	Yield	Test Weight	Protein	Plump	Height	Heading	Maturity
	bu/ac	lb/bu	%	%	cm	julian	julian
Champion	116.4	55.2	11.7	91.6	87	166	210
Conrad	116.6	52.4	12.6	88.7	82	169	211
Geraldine	118.3	53.9	11.4	84.9	77	168	209
Harrington	96.4	53.2	12.5	88.7	89	168	209
Haxby	93.4	55.1	12.5	87.0	84	166	208
Hays	103.3	50.4	12.8	76.3	91	170	211
Hockett	99.7	53.7	11.9	89.7	84	166	206
Lavina	99.1	50.0	13.3	68.2	91	166	208
Metcalfe	98.8	53.7	11.9	89.3	95	167	209
Scarlett	110.6	53.8	11.8	94.6	72	170	209
Stellar	80.5	52.6	11.9	89.7	90	164	210
Stepford	68.6	46.8	13.1	83.2	96	164	208
UT10902-91	98.1	50.1	12.2	90.1	88	163	207
UT10905-72	103.8	51.3	11.7	90.7	90	163	210
UT10905-91	92.1	52.5	11.7	91.4	87	163	209
11WA-107.58	113.2	55.2	11.8	91.2	85	166	213
12WA-120.14	109.6	53.3	12.7	90.5	87	167	211
12WA-120.17	109.4	53.4	12.7	92.6	86	167	211
2B10-4162	114.0	53.3	11.4	80.7	82	167	211
2B11-4949	117.4	53.7	11.7	88.7	83	168	211
2B11-5166	106.4	53.0	11.5	87.5	85	166	208
MT050051	122.2	53.3	11.5	85.9	81	167	210
MT050059	104.6	53.1	12.2	86.5	89	167	210
MT050169	111.8	54.2	12.7	90.6	82	166	207
MT070043	102.6	53.2	12.6	85.0	86	169	212
MT070144	103.5	53.8	12.9	93.7	88	168	206
MT080192	128.1	54.5	11.0	90.6	81	172	213
MT080256	109.6	54.2	12.7	92.7	86	167	212
MT080351	104.1	53.0	13.4	93.6	88	167	209
MT090025	97.5	50.9	9.2	50.5	76	162	209
MT090169	107.3	52.7	11.1	83.4	80	166	208
MT090184	107.0	53.1	11.3	90.4	87	169	212
MT090202	95.7	54.1	11.5	92.9	87	169	214
MT090234	105.2	52.7	11.2	90.2	89	167	212
MT090236	92.7	53.1	11.3	87.3	80	162	208
MT103038-4	81.2	49.1	15.5	85.9	91	167	212
MT103038-6	71.4	49.1	16.0	82.3	88	167	211
MT103089-3	72.5	43.3	15.1	39.5	103	168	209
MT103097-1	70.2	50.3	14.8	78.1	100	168	205
MT103101-5	54.2	50.1	14.8	81.4	95	166	206
MT124001	106.0	52.9	11.3	82.8	89	166	210
MT124007	103.1	53.1	11.7	86.4	90	167	210
MT124008	108.6	53.3	11.6	86.1	88	166	210
MT124015	99.5	53.1	12.3	89.7	90	168	210
MT124018	108.4	52.7	12.0	89.1	87	166	212
MT124025	106.0	52.6	11.8	88.0	89	168	211
MT124026	105.1	52.8	11.7	87.5	91	167	211
MT124027	114.8	52.6	11.4	87.0	84	167	210
MT124071	104.4	53.4	11.1	88.6	87	166	213
MT124093	92.4	54.3	13.5	94.4	95	168	211
MT124113	90.1	53.6	11.7	93.9	84	163	212
MT124127	103.1	54.1	12.7	89.0	82	165	208
MT124128	101.6	53.9	11.4	93.1	81	162	211
MT124134	93.3	53.7	11.6	93.3	85	162	210
MT124148	121.9	53.7	11.3	85.9	85	168	209
MT124163	100.8	53.3	11.0	92.5	77	165	215
MT124164	121.2	53.0	10.6	88.2	81	167	213
MT124361	101.6	54.1	13.0	90.1	83	166	208
MT124370	114.6	53.9	11.1	89.8	81	168	214
MT124380	111.4	53.4	11.2	88.8	77	167	213
MT124601	104.0	52.9	11.1	86.7	90	168	213
MT124659	93.4	54.1	11.8	92.2	75	162	211
MT124664	90.4	54.4	12.0	93.2	78	166	211
MT124677	104.2	54.0	11.7	88.9	80	165	212
GRAND MEAN	101.6	52.8	12.1	86.9	85.9	166.4	210.1

Irrigated 2016 Statewide Means

Yield (bu/ac)

	Huntley	Conrad	Bozeman	Average
Balster	106.6	120.3	122.3	116.4
Champion	93.3	99.8	139.4	113.6
Conrad	103.1		130.1	116.6
Copeland	100.4	117.2	134.6	117.4
Genie	118.7	132.0	131.2	127.3
Geraldine	108.3		128.3	118.3
Growler	116.3	124.5	119.7	120.2
Harrington	84.3	110.0	115.1	100.8
Haxby	74.4	107.6	120.6	98.5
Hays	88.5		118.1	103.3
Hockett	80.3	120.5	121.1	103.8
Lavina	80.5		117.6	99.1
Metcalfe	84.2	107.0	116.2	101.1
Odyssey	123.1	132.5	135.5	130.4
Overture	121.6	145.0	124.2	130.3
Scarlett	95.9		125.2	110.6
Stellar	50.0		110.9	80.5
Stepford	35.5		101.7	68.6
Synergy	87.2	114.2	120.2	107.2
Vespa	114.6	139.9	135.9	130.1
Westminster	102.5	124.9	132.5	120.0
Average	95.0	120.9	123.9	110.7
08ARS012-79	88.7	113.3	131.1	111.0
08ARS028-20	116.9	115.9	127.1	120.0
08ARS116-91	102.8	115.8	131.2	116.6
10WA-117.17	91.2	111.4	121.9	108.2
10WA-117.24	64.8	90.3	114.1	89.7
11WA-107.43	96.1	107.5	131.0	111.5
11WA-107.58	95.9		130.4	113.2
12WA-120.14	87.5		131.7	109.6
12WA-120.17	89.6		129.1	109.4
2B10-4162	104.1		123.8	114.0
2B11-4949	105.3		129.4	117.4
2B11-5166	87.0		125.8	106.4
ME08032-156	110.0	127.9	126.8	121.6
ME08053-050	92.8	121.0	128.7	114.2
MT050051	117.3		127.0	122.2
UT10902-91	75.7		120.4	98.1
UT10905-72	71.1		136.4	103.8
UT10905-91	43.5		140.6	92.1
MT050059	83.3		125.9	104.6
MT050169	92.0		131.6	111.8
MT070043	83.2		122.0	102.6
MT070144	79.1		127.9	103.5
MT080087	101.5	113.6	126.8	114.0
MT080112	101.4	119.0	129.2	116.5
MT080192	118.0		138.2	128.1
MT080243	97.2	113.1	117.7	109.3
MT080256	97.1		122.0	109.6
MT080351	82.1		126.0	104.1
MT080370	85.4	93.6	125.8	101.6
MT090025	85.8		109.1	97.5
MT090169	86.1		128.5	107.3
MT090182	94.1	110.6	124.5	109.7

	Huntley	Conrad	Bozeman	Average
MT090184	96.1		117.9	107.0
MT090190	99.5	120.2	126.6	115.4
MT090193	97.0	116.9	114.3	109.4
MT090202	77.7		113.6	95.7
MT090234	85.7		124.7	105.2
MT090236	72.3		113.0	92.7
MT100120	94.3	121.4	114.7	110.1
MT100126	98.5	118.8	116.4	111.2
MT103038-4	58.3		104.1	81.2
MT103038-6	46.5		96.3	71.4
MT103089-3	49.9		95.1	72.5
MT103097-1	54.1		86.3	70.2
MT103101-5	22.5		85.9	54.2
MT124001	84.7		127.3	106.0
MT124007	79.3		126.8	103.1
MT124008	94.2		122.9	108.6
MT124015	78.6		120.4	99.5
MT124016	102.2	122.5	128.8	117.8
MT124018	91.7		125.0	108.4
MT124025	90.4		121.5	106.0
MT124026	88.1		122.0	105.1
MT124027	98.2		131.3	114.8
MT124069	97.6	110.4	121.2	109.7
MT124071			118.1	104.4
MT124073	92.3	108.3	125.2	108.6
MT124093	64.3		120.5	92.4
MT124112	74.8	110.9	127.7	104.5
MT124113	70.8		109.4	90.1
MT124118	86.4	115.4	122.1	108.0
MT124127	80.9		125.3	103.1
MT124128	69.8		133.3	101.6
MT124134	62.0		124.5	93.3
MT124148	109.3		134.5	121.9
MT124163	73.2		128.3	100.8
MT124164	111.0		131.4	121.2
MT124243	108.1	122.4	130.0	120.2
MT124361	76.8		126.4	101.6
MT124370	101.6		127.6	114.6
MT124380	95.2		127.5	111.4
MT124411	91.4	98.0	99.4	96.3
MT124454	90.2	110.3	127.5	109.3
MT124457	86.2	114.9	137.1	112.7
MT124555	106.3	120.5	124.0	116.9
MT124582	78.7	108.8	130.2	105.9
MT124601	87.0		121.0	104.0
MT124645	92.2	104.5	117.3	104.7
MT124659	70.8		116.0	93.4
MT124663	67.3	104.9	110.8	94.3
MT124664	66.2		114.6	90.4
MT124673	74.8	106.8	109.0	96.9
MT124677	79.4		129.0	104.2
MT124688	99.6	125.3	132.4	119.1
MT124716	92.0	114.7	124.2	110.3
MT124728	90.7	119.3	125.7	111.9
GRAND MEAN	86.8	114.3	122.9	105.6
CV	4.74	6.88	8.96	
LSD	9.79	14.585	23.245	

Irrigated 2016 Statewide Means

Protein (%)

	Huntley	Conrad	Bozeman	Average
Balster	11.0	10.2	10.9	10.7
Champion	11.2	9.6	11.8	11.2
Conrad	10.8		14.3	12.6
Copeland	10.8	10.1	11.5	10.8
Genie	9.9	9.5	10.5	10.0
Geraldine	10.2		12.6	11.4
Growler	10.4	10.2	11.0	10.5
Harrington	11.4	10.2	12.1	11.6
Haxby	12.0	11.1	12.0	11.9
Hays	11.7		13.8	12.8
Hockett	11.7	10.2	11.8	11.5
Lavina	12.8		13.7	13.3
Metcalfe	11.4	9.8	12.2	11.5
Odyssey	9.9	9.4	10.7	10.0
Overture	9.5	8.7	11.0	9.7
Scarlett	10.5		13.0	11.8
Stellar	11.5		12.3	11.9
Stepford	13.4		12.8	13.1
Synergy	11.2	9.5	11.0	10.6
Vespa	11.0	9.4	9.7	10.0
Westminster	10.8	9.3	10.7	10.3
Average	11.1	9.8	11.9	11.3
08ARS012-79	11.1	9.9	10.9	10.6
08ARS028-20	10.7	9.4	10.1	10.1
08ARS116-91	10.3	10.5	11.1	10.6
10WA-117.17	11.4	10.2	10.9	10.8
10WA-117.24	12.4	10.5	11.2	11.4
11WA-107.43	11.6	9.9	11.1	10.9
11WA-107.58	11.9		11.7	11.8
12WA-120.14	12.0		13.3	12.7
12WA-120.17	11.9		13.5	12.7
2B10-4162	10.6		12.2	11.4
2B11-4949	10.6		12.8	11.7
2B11-5166	10.9		12.1	11.5
ME08032-156	11.2	9.6	10.7	10.5
ME08053-050	12.6	10.8	11.7	11.7
MT050051	10.7		12.3	11.5
UT10902-91	11.8		12.6	12.2
UT10905-72	11.7		11.6	11.7
UT10905-91	11.6		11.7	11.7
MT050059	11.1		13.3	12.2
MT050169	11.7		13.7	12.7
MT070043	11.8		13.3	12.6
MT070144	12.0		13.7	12.9
MT080087	11.7	9.4	11.4	10.8
MT080112	10.7	10.4	10.8	10.6
MT080192	9.9		12.0	11.0
MT080243	10.8	9.4	11.3	10.5
MT080256	11.9		13.5	12.7
MT080351	13.2		13.5	13.4
MT080370	11.1	11.3	11.3	11.2
MT090025	8.2		10.1	9.2
MT090169	10.5		11.6	11.1
MT090182	9.8	8.9	10.4	9.7

	Huntley	Conrad	Bozeman	Average
MT090184	10.6		11.9	11.3
MT090190	10.0	9.4	10.1	9.8
MT090193	10.3	9.4	10.5	10.1
MT090202	11.0		11.9	11.5
MT090234	10.5		11.9	11.2
MT090236	11.5		11.0	11.3
MT100120	9.8	9.2	10.3	9.8
MT100126	10.2	9.3	10.5	10.0
MT103038-4	15.3		15.6	15.5
MT103038-6	15.4		16.6	16.0
MT103089-3	15.3		14.8	15.1
MT103097-1	14.0		15.5	14.8
MT103101-5	14.8		14.7	14.8
MT124001	10.4		12.1	11.3
MT124007	11.0		12.3	11.7
MT124008	10.6		12.5	11.6
MT124015	11.5		13.1	12.3
MT124016	10.5	9.6	9.9	10.0
MT124018	11.7		12.2	12.0
MT124025	10.6		13.0	11.8
MT124026	10.7		12.7	11.7
MT124027	10.3		12.4	11.4
MT124069	10.2	9.3	11.4	10.3
MT124071	10.6		11.6	11.1
MT124073	10.5	9.7	11.6	10.6
MT124093	13.2		13.7	13.5
MT124112	10.7	9.9	10.3	10.3
MT124113	11.6		11.7	11.7
MT124118	11.6	10.4	10.8	10.9
MT124127	12.7		12.7	12.7
MT124128	11.3		11.5	11.4
MT124134	11.6		11.6	11.6
MT124148	10.1		12.5	11.3
MT124163	10.2		11.7	11.0
MT124164	9.8		11.3	10.6
MT124243	10.2	9.1	10.0	9.8
MT124361	12.6		13.3	13.0
MT124370	10.7		11.4	11.1
MT124380	10.8		11.6	11.2
MT124411	11.0	10.2	11.8	11.0
MT124454	11.8	11.4	10.8	11.3
MT124457	12.0	10.8	11.5	11.4
MT124555	10.4	9.7	11.0	10.4
MT124582	12.1	10.5	11.2	11.3
MT124601	10.5		11.6	11.1
MT124645	10.7	9.3	10.8	10.3
MT124659	11.8		11.7	11.8
MT124663	11.4	10.7	10.9	11.0
MT124664	11.8		12.1	12.0
MT124673	11.5	10.2	10.7	10.8
MT124677	11.5		11.8	11.7
MT124688	10.0	9.3	10.1	9.8
MT124716	11.2	10.2	11.9	11.1
MT124728	11.6	10.7	12.3	11.5
GRAND MEAN	11.3	9.9	11.9	11.5
CV	3.105	5.865	7.08	
LSD	0.745	1.4	1.67	

Irrigated 2016 Statewide Means

Test Weight (lb/bu)

	Huntley	Conrad	Bozeman	Average
Balster	50.6	51.8	54.9	52.4
Champion	53.7	52.6	56.5	54.7
Conrad	52.6		52.2	52.4
Copeland	53.1	52.7	56.0	53.9
Genie	52.0	53.8	55.2	53.7
Geraldine	53.6		54.1	53.9
Growler	50.5	51.7	54.6	52.3
Harrington	53.0	53.0	54.7	53.6
Haxby	54.4	52.7	56.6	55.0
Hays	50.7		50.0	50.4
Hockett	52.4	53.5	55.6	53.9
Lavina	50.5		49.4	50.0
Metcalfe	53.3	53.1	55.0	53.9
Odyssey	50.8	52.2	54.7	52.6
Overture	51.1	52.1	54.8	52.6
Scarlett	52.7		54.8	53.8
Stellar	51.6		53.7	52.6
Stepford	45.8		47.9	46.8
Synergy	51.6	50.9	54.8	52.5
Vespa	52.1	52.8	55.1	53.3
Westminster	51.4	53.0	56.3	53.6
Average	51.8	52.5	54.2	52.8

08ARS012-79	52.3	52.7	56.0	53.6
08ARS028-20	52.3	52.2	55.2	53.2
08ARS116-91	52.4	52.5	54.9	53.3
10WA-117.17	52.1	52.3	55.8	53.4
10WA-117.24	50.4	51.8	54.2	52.1
11WA-107.43	53.1	53.0	56.8	54.3
11WA-107.58	54.3		56.2	55.2
12WA-120.14	52.7		54.0	53.3
12WA-120.17	52.5		54.4	53.4
2B10-4162	52.8		53.8	53.3
2B11-4949	53.0		54.3	53.7
2B11-5166	52.3		53.6	53.0
ME08032-156	52.1	52.5	56.0	53.5
ME08053-050	51.5	53.3	55.1	53.3
MT050051	52.8		53.9	53.3
UT10902-91	49.2		51.1	50.1
UT10905-72	50.7		51.9	51.3
UT10905-91	51.9		53.0	52.5
MT050059	52.8		53.4	53.1
MT050169	53.7		54.7	54.2
MT070043	52.6		53.8	53.2
MT070144	53.7		53.9	53.8
MT080087	53.7	52.9	55.7	54.1
MT080112	53.0	54.0	56.5	54.5
MT080192	53.8		55.3	54.5
MT080243	52.8	52.6	55.4	53.6
MT080256	53.3		55.1	54.2
MT080351	51.6		54.5	53.0
MT080370	52.2	52.3	55.6	53.4
MT090025	51.0		50.8	50.9
MT090169	51.4		54.0	52.7
MT090182	52.6	52.9	55.6	53.7

	Huntley	Conrad	Bozeman	Average
MT090184	52.4		53.8	53.1
MT090190	52.5	53.5	55.7	53.9
MT090193	51.7	52.9	55.0	53.2
MT090202	52.8		55.4	54.1
MT090234	51.3		54.1	52.7
MT090236	51.7		54.5	53.1
MT100120	52.8	53.2	55.5	53.8
MT100126	52.3	53.5	55.9	53.9
MT103038-4	47.2		51.0	49.1
MT103038-6	48.3		49.9	49.1
MT103089-3	40.9		45.7	43.3
MT103097-1	49.7		51.0	50.3
MT103101-5	48.1		52.1	50.1
MT124001	52.6		53.2	52.9
MT124007	52.9		53.4	53.1
MT124008	52.6		54.0	53.3
MT124015	52.6		53.7	53.1
MT124016	52.1	52.8	55.3	53.4
MT124018	51.5		53.8	52.7
MT124025	52.4		52.8	52.6
MT124026	52.7		52.8	52.8
MT124027	52.2		52.9	52.6
MT124069	51.6	52.5	55.1	53.1
MT124071	51.6		55.1	53.4
MT124073	51.9	52.7	55.8	53.5
MT124093	53.2		55.5	54.3
MT124112	51.2	52.5	55.3	53.0
MT124113	51.4		55.9	53.6
MT124118	53.1	54.2	56.8	54.7
MT124127	53.2		55.1	54.1
MT124128	51.9		55.9	53.9
MT124134	51.8		55.6	53.7
MT124148	53.5		53.8	53.7
MT124163	52.6		54.0	53.3
MT124164	52.5		53.4	53.0
MT124243	52.1	52.2	55.5	53.2
MT124361	53.6		54.6	54.1
MT124370	53.3		54.4	53.9
MT124380	52.8		54.0	53.4
MT124411	52.4	52.7	56.2	53.7
MT124454	53.0	54.3	57.1	54.8
MT124457	53.2	54.8	57.0	55.0
MT124555	53.5	53.3	56.3	54.4
MT124582	52.8	53.4	56.0	54.1
MT124601	52.4		53.4	52.9
MT124645	52.3	52.7	55.5	53.5
MT124659	53.0		55.1	54.1
MT124663	51.8	52.3	55.9	53.3
MT124664	53.4		55.4	54.4
MT124673	52.5	53.0	55.5	53.7
MT124677	53.0		55.0	54.0
MT124688	52.9	53.3	56.7	54.3
MT124716	51.8	53.2	56.2	53.7
MT124728	52.1	53.1	55.8	53.6
GRAND MEAN	52.1	53.0	54.5	53.2
CV	0.83	1.07	0.82	
LSD	0.93	1.215	0.98	

Irrigated 2016 Statewide Means

Plump (%)

	Huntley	Conrad	Bozeman	Average
Balster	92.9	98.1	97.2	96.0
Champion	91.6	96.9	93.5	93.1
Conrad	94.5		82.9	88.7
Copeland	95.8	98.0	96.0	96.6
Genie	93.0	98.1	95.9	95.7
Geraldine	86.1		83.6	84.9
Growler	92.9	97.2	95.5	95.2
Harrington	94.6	96.8	89.3	92.2
Haxby	89.1	98.3	92.7	91.5
Hays	86.9		65.7	76.3
Hockett	92.2	98.5	90.6	92.3
Lavina	83.8		52.7	68.2
Metcalfe	93.9	97.3	89.2	92.1
Odyssey	94.0	97.9	94.7	95.5
Overture	93.5	98.5	95.7	95.9
Scarlett	94.7		94.4	94.6
Stepford	82.9		83.4	83.2
Stellar	87.1		92.4	89.7
Synergy	96.4	98.9	95.9	97.1
Vespa	94.2	97.5	94.5	95.4
Westminster	96.1	98.7	98.2	97.7
Average	91.9	97.9	89.4	91.3
08ARS012-79	92.5	96.5	93.9	94.3
08ARS028-20	95.1	97.4	92.0	94.8
08ARS116-91	91.1	95.7	93.6	93.5
10WA-117.17	91.2	96.4	94.2	93.9
10WA-117.24	93.6	97.3	96.2	95.7
11WA-107.43	92.2	97.9	95.3	95.1
11WA-107.58	91.9		90.4	91.2
12WA-120.14	93.5		87.5	90.5
12WA-120.17	94.0		91.1	92.6
2B10-4162	82.0		79.5	80.7
2B11-4949	89.7		87.6	88.7
2B11-5166	89.1		85.8	87.5
ME08032-156	94.9	97.7	97.9	96.8
ME08053-050	95.7	98.3	92.7	95.6
MT050051	89.1		82.7	85.9
UT10902-91	91.3		88.9	90.1
UT10905-72	91.3		90.0	90.7
UT10905-91	89.5		93.4	91.4
MT050059	92.0		81.0	86.5
MT050169	95.0		86.2	90.6
MT070043	88.9		81.2	85.0
MT070144	95.9		91.4	93.7
MT080087	95.9	98.4	96.3	96.9
MT080112	94.5	98.5	97.8	96.9
MT080192	92.7		88.6	90.6
MT080243	89.0	96.3	93.0	92.8
MT080256	95.2		90.3	92.7
MT080351	92.9		94.3	93.6
MT080370	91.6	98.8	59.0	83.1
MT090025	55.8		45.2	50.5
MT090169	88.2		78.6	83.4
MT090182	92.7	97.6	95.3	95.2

	Huntley	Conrad	Bozeman	Average
MT090184	92.8		87.9	90.4
MT090190	93.7	98.0	97.2	96.3
MT090193	93.8	98.3	97.7	96.6
MT090202	91.6		94.2	92.9
MT090234	89.8		90.5	90.2
MT090236	87.1		87.5	87.3
MT100120	94.4	98.6	97.5	96.8
MT100126	93.6	97.8	96.0	95.8
MT103038-4	86.6		85.1	85.9
MT103038-6	86.6		77.9	82.3
MT103089-3	37.8		41.2	39.5
MT103097-1	81.0		75.2	78.1
MT103101-5	72.6		90.2	81.4
MT124001	89.9		75.7	82.8
MT124007	91.8		81.0	86.4
MT124008	87.0		85.2	86.1
MT124015	92.7		86.7	89.7
MT124016	91.5	97.9	93.1	94.2
MT124018	90.9		87.2	89.1
MT124025	91.0		85.0	88.0
MT124026	91.1		83.8	87.5
MT124027	89.8		84.2	87.0
MT124069	94.2	98.2	96.6	96.3
MT124071	89.8		87.3	88.6
MT124073	92.9	98.3	96.5	95.9
MT124093	92.7		96.1	94.4
MT124112	93.1	98.1	97.0	96.1
MT124113	90.8		96.9	93.9
MT124118	92.8	98.3	95.2	95.5
MT124127	91.7		86.3	89.0
MT124128	92.1		94.0	93.1
MT124134	91.2		95.4	93.3
MT124148	90.1		81.7	85.9
MT124163	92.3		92.7	92.5
MT124164	92.0		84.5	88.2
MT124243	93.4	97.4	95.4	95.4
MT124361	93.7		86.6	90.1
MT124370	93.8		85.9	89.8
MT124380	92.2		85.5	88.8
MT124411	91.0	96.9	97.4	95.1
MT124454	93.8	98.1	97.7	96.5
MT124457	94.0	98.2	63.9	85.3
MT124555	93.9	98.4	98.8	97.0
MT124582	93.6	96.3	94.7	94.8
MT124601	87.2		86.2	86.7
MT124645	93.4	98.4	96.7	96.1
MT124659	89.6		94.9	92.2
MT124663	94.9	98.7	98.5	97.3
MT124664	93.9		92.6	93.2
MT124673	91.9	97.8	96.9	95.5
MT124677	92.5		85.3	88.9
MT124688	92.8	97.4	96.9	95.7
MT124716	90.8	98.3	97.1	95.4
MT124728	91.5	97.9	93.5	94.3
GRAND MEAN	90.6	97.8	88.9	90.3
CV	2.09	2.69	9.8	
LSD	4.065	5.01	19.84	

Irrigated 2016 Statewide Means

Height (cm)

	Huntley	Conrad	Bozeman	Average
Balster	91.0	74.5	60.5	75.3
Champion	97.6	77.9	68.9	83.0
Conrad	90.9		73.7	82.3
Copeland	94.4	85.5	63.3	81.1
Genie	79.5	64.3	63.5	69.1
Geraldine	89.2		64.0	76.6
Growler	91.7	85.5	58.0	78.4
Harrington	96.0	79.6	70.0	83.3
Haxby	96.0	79.6	66.5	81.4
Hays	100.3		81.0	90.7
Hockett	94.8	76.2	67.5	80.8
Lavina	103.0		78.5	90.7
Metcalfe	103.2	83.8	74.6	89.1
Odyssey	77.9	62.7	62.9	67.8
Overture	80.4	68.6	60.8	69.9
Scarlett	75.8		69.1	72.4
Stellar	101.4		77.7	89.6
Stepford	112.5		80.3	96.4
Synergy	99.5	79.6	62.7	80.6
Vespa	76.4	66.0	61.2	67.9
Westminster	84.9	72.0	60.8	72.6
Average	91.6	74.4	67.9	79.5
08ARS012-79	94.4	77.1	58.8	76.8
08ARS028-20	88.6	68.6	62.4	73.2
08ARS116-91	90.5	73.7	63.5	75.9
10WA-117.17	97.2	82.1	61.0	80.1
10WA-117.24	100.7	91.4	56.5	82.9
11WA-107.43	91.8	75.4	63.9	77.0
11WA-107.58	95.2		74.2	84.7
12WA-120.14	100.5		73.9	87.2
12WA-120.17	99.9		71.9	85.9
2B10-4162	91.5		72.4	81.9
2B11-4949	90.4		75.4	82.9
2B11-5166	95.8		74.7	85.2
ME08032-156	78.7	65.2	60.6	68.2
ME08053-050	94.5	76.2	63.1	77.9
MT050051	91.2		70.4	80.8
UT10902-91	103.1		72.1	87.6
UT10905-72	103.9		75.2	89.5
UT10905-91	101.8		72.1	87.0
MT050059	100.1		77.0	88.5
MT050169	93.1		71.6	82.4
MT070043	96.0		76.7	86.4
MT070144	98.3		77.2	87.8
MT080087	83.8	66.9	65.6	72.1
MT080112	97.9	81.3	61.0	80.1
MT080192	83.5		77.7	80.6
MT080243	101.1	77.9	59.1	79.4
MT080256	97.3		74.7	86.0
MT080351	99.2		76.5	87.8
MT080370	106.5	83.0	62.2	83.9
MT090025	85.3		66.0	75.7
MT090169	90.8		69.9	80.3
MT090182	96.2	84.7	59.9	80.3

	Huntley	Conrad	Bozeman	Average
MT090184	98.2		75.2	86.7
MT090190	96.6	88.0	60.9	81.8
MT090193	99.0	85.5	56.3	80.3
MT090202	97.8		77.0	87.4
MT090234	101.3		77.5	89.4
MT090236	91.6		68.8	80.2
MT100120	98.6	87.2	63.3	83.0
MT100126	97.1	88.1	61.4	82.2
MT103038-4	103.3		78.2	90.8
MT103038-6	101.9		73.2	87.5
MT103089-3	115.4		90.9	103.2
MT103097-1	114.1		85.1	99.6
MT103101-5	111.2		79.8	95.5
MT124001	99.0		79.0	89.0
MT124007	100.3		79.2	89.8
MT124008	100.2		75.9	88.1
MT124015	101.9		77.7	89.8
MT124016	94.5	75.4	58.8	76.2
MT124018	94.8		80.0	87.4
MT124025	99.3		79.0	89.1
MT124026	101.8		80.0	90.9
MT124027	92.3		75.2	83.7
MT124069	94.7	86.4	59.7	80.3
MT124071	100.0		73.7	86.8
MT124073	99.9	85.5	63.1	82.8
MT124093	105.8		83.6	94.7
MT124112	92.2	77.9	63.9	78.0
MT124113	96.5		72.4	84.4
MT124118	94.1	79.6	61.2	78.3
MT124127	89.8		74.4	82.1
MT124128	91.7		70.9	81.3
MT124134	95.4		75.4	85.4
MT124148	93.0		77.0	85.0
MT124163	89.5		65.0	77.3
MT124164	93.2		68.3	80.8
MT124243	99.3	84.7	63.9	82.6
MT124361	92.4		73.4	82.9
MT124370	91.8		70.1	81.0
MT124380	86.4		68.1	77.2
MT124411	99.4	76.2	58.6	78.1
MT124454	98.8	78.7	60.3	79.3
MT124457	97.9	82.1	57.4	79.1
MT124555	94.8	78.7	63.1	78.9
MT124582	94.3	78.7	59.3	77.4
MT124601	99.3		79.8	89.5
MT124645	94.1	84.7	60.1	79.6
MT124659	84.7		66.0	75.4
MT124663	92.7	78.8	61.4	77.6
MT124664	88.3		68.6	78.4
MT124673	89.7	73.7	58.9	74.1
MT124677	87.5		71.6	79.6
MT124688	97.7	83.8	59.3	80.3
MT124716	92.3	78.7	65.6	78.9
MT124728	94.3	75.4	65.2	78.3
GRAND MEAN	95.7	79.1	69.2	82.7
CV	2.81	5.385	7.81	
LSD	5.745	6.31	10.29	

Irrigated 2016 Statewide Means

	Heading		Maturity	
	Huntley	Bozeman		Average
Balster	157	179	168	210
Champion	157	176	166	210
Conrad	160	179	169	211
Copeland	161	180	170	211
Genie	160	182	171	212
Geraldine	160	176	168	209
Growler	157	178	168	211
Harrington	157	178	168	210
Haxby	157	176	166	208
Hays	160	179	170	211
Hockett	157	177	167	207
Lavina	155	178	166	208
Metcalfe	157	176	166	208
Odyssey	161	182	172	215
Overture	161	182	171	214
Scarlett	161	179	170	209
Stellar	153	175	164	210
Stepford	154	174	164	208
Synergy	158	177	168	208
Vespa	161	181	171	211
Westminster	161	180	171	212
Average	158	178	168	210
08ARS012-79	156	176	166	209
08ARS028-20	157	181	169	211
08ARS116-91	155	175	165	210
10WA-117.17	157	179	168	211
10WA-117.24	157	179	168	210
11WA-107.43	157	175	166	210
11WA-107.58	157	175	166	213
12WA-120.14	157	178	167	211
12WA-120.17	157	178	167	211
2B10-4162	157	178	167	211
2B11-4949	157	180	168	211
2B11-5166	157	176	166	208
ME08032-156	158	178	168	211
ME08053-050	157	175	166	208
MT050051	157	176	167	210
UT10902-91	152	173	163	207
UT10905-72	153	172	163	210
UT10905-91	152	173	163	209
MT050059	157	177	167	210
MT050169	157	175	166	207
MT070043	159	178	169	212
MT070144	156	179	168	206
MT080087	161	180	171	210
MT080112	158	180	169	210
MT080192	162	182	172	213
MT080243	157	178	168	208
MT080256	157	177	167	212
MT080351	157	176	167	209
MT080370	156	178	167	209
MT090025	152	172	162	209
MT090169	156	175	166	208
MT090182	157	179	168	214

	Heading		Maturity	
	Huntley	Bozeman		Average
MT090184	160	178	169	212
MT090190	157	179	168	214
MT090193	159	180	169	214
MT090202	160	178	169	214
MT090234	157	176	167	212
MT090236	153	172	162	208
MT100120	158	179	169	214
MT100126	161	181	171	214
MT103038-4	155	178	167	212
MT103038-6	156	179	167	211
MT103089-3	156	179	168	209
MT103097-1	158	178	168	205
MT103101-5	154	178	166	206
MT124001	157	175	166	210
MT124007	157	176	167	210
MT124008	157	176	166	210
MT124015	157	178	168	210
MT124016	156	179	167	210
MT124018	155	176	166	212
MT124025	157	179	168	211
MT124026	157	177	167	211
MT124027	157	178	167	210
MT124069	161	180	171	211
MT124071	155	176	166	213
MT124073	158	180	169	212
MT124093	158	178	168	211
MT124112	154	175	165	209
MT124113	153	173	163	212
MT124118	157	176	166	208
MT124127	156	174	165	208
MT124128	152	172	162	211
MT124134	152	171	162	210
MT124148	158	179	168	209
MT124163	155	175	165	215
MT124164	157	177	167	213
MT124243	157	178	168	212
MT124361	156	175	166	208
MT124370	158	178	168	214
MT124380	157	176	167	213
MT124411	157	177	167	211
MT124454	157	175	166	207
MT124457	156	175	166	206
MT124555	158	177	168	211
MT124582	156	175	165	208
MT124601	158	179	168	213
MT124645	157	178	168	209
MT124659	152	173	162	211
MT124663	156	175	166	214
MT124664	155	176	166	211
MT124673	154	175	164	211
MT124677	155	174	165	212
MT124688	158	176	167	212
MT124716	157	178	168	209
MT124728	157	178	167	209
GRAND MEAN	157	177	167	210
CV	0.745	0.53		0.825
LSD	2.505	2.02		3.705

Intrastate Dryland 2016 Statewide Summary

	Yield bu/ac	Test Weight lb/bu	Protein %	Plump %	Height cm	Heading julian	Maturity julian
Balster	91.5	52.4	12.0	93.4	69.7	175	206
Champion	94.4	54.8	12.5	93.9	71.5	173	208
Copeland	90.1	53.3	12.2	94.4	70.7	175	207
Genie	94.4	53.9	11.6	94.3	62.3	177	209
Growler	90.5	52.4	11.9	93.3	68.1	174	206
Harrington	87.8	53.8	12.9	94.1	72.8	174	207
Haxby	85.0	54.7	13.0	92.7	73.7	172	204
Hockett	91.0	54.0	12.6	95.6	74.1	173	206
Metcalfe	82.8	53.6	13.0	93.7	75.0	173	205
Odyssey	98.8	53.4	11.9	97.6	63.8	177	210
Overture	90.6	53.4	11.6	95.8	63.6	178	210
Synergy	89.5	53.0	12.0	95.9	72.9	173	206
Vespa	93.9	53.4	12.3	93.6	62.2	177	208
Westminster	88.3	53.3	12.3	95.4	67.1	176	207
08ARS012-79	86.2	53.6	12.2	94.9	71.9	173	207
08ARS028-20	93.6	53.0	11.9	90.1	67.7	176	207
08ARS116-91	92.4	53.1	12.5	91.5	69.6	172	206
10WA-117.17	90.4	53.2	12.2	90.8	69.3	175	206
10WA-117.24	78.4	52.5	12.5	92.7	74.8	174	206
11WA-107.43	89.9	54.6	12.3	93.4	70.8	172	208
ME08032-156	93.4	53.5	12.2	91.3	63.6	174	206
ME08053-050	81.9	53.4	13.0	95.6	69.7	173	207
MT080087	85.7	53.4	12.7	95.4	63.2	176	208
MT080112	86.5	53.9	12.4	93.6	74.7	174	207
MT080243	87.1	53.6	12.1	90.9	75.1	174	206
MT080370	83.9	53.6	12.4	94.2	77.8	173	206
MT090182	91.5	53.8	11.3	93.2	75.2	175	210
MT090190	83.6	53.5	11.2	94.3	71.8	175	210
MT090193	85.1	53.6	11.7	94.7	74.9	175	210
MT100120	87.1	54.1	11.5	95.1	75.3	175	210
MT100126	80.9	54.0	11.3	94.8	72.8	176	211
MT124016	91.4	53.3	11.9	92.8	70.1	174	207
MT124069	84.1	53.0	12.0	93.7	71.9	176	207
MT124073	89.7	54.0	11.9	93.6	77.6	174	208
MT124112	80.0	53.3	11.7	95.5	71.6	171	207
MT124118	81.7	54.3	12.2	95.1	74.3	172	207
MT124243	89.3	53.5	11.4	93.0	73.8	174	209
MT124411	76.4	53.6	13.1	95.7	73.5	171	209
MT124454	82.9	54.5	12.7	95.9	75.8	172	206
MT124457	80.5	54.5	12.5	95.2	74.9	172	206
MT124555	85.4	54.5	12.0	95.7	71.8	174	208
MT124582	84.0	53.9	12.6	94.8	74.5	172	206
MT124645	79.4	53.4	12.1	94.3	71.1	173	207
MT124663	74.5	53.6	12.4	97.2	71.7	171	210
MT124673	68.1	53.1	12.1	94.0	67.1	173	210
MT124688	89.2	53.9	11.7	93.4	74.9	174	209
MT124716	80.5	54.2	13.1	91.9	71.4	174	206
MT124728	85.4	53.7	13.0	92.5	71.2	173	206
GRAND MEAN	86.6	53.6	12.2	94.1	71.1	174.0	207.4

EYT Dryland 2016 Statewide Summary

	Yield	Test Weight	Protein	Plump	Height	Heading	Maturity
	bu/ac	lb/bu	%	%	cm	julian	julian
Champion	92.2	54.3	13.2	90.3	71.4	172	208
Conrad	82.5	52.9	14.7	87.8	66.7	174	207
Geraldine	87.3	53.0	13.4	78.7	64.7	175	207
Harrington	77.5	51.5	13.8	89.3	72.0	174	206
Haxby	74.2	54.1	14.0	89.3	71.7	171	204
Hays	83.3	52.1	14.3	80.3	69.3	175	208
Hockett	86.3	54.0	13.5	93.5	73.6	172	205
Lavina	78.9	51.2	14.2	72.2	75.3	172	204
Metcalfe	73.8	53.3	14.3	89.7	73.4	172	205
Scarlett	71.2	53.7	13.8	88.2	61.6	174	206
Stellar	68.7	52.0	13.1	82.3	71.8	170	205
Stepford	62.1	49.5	13.8	90.3	79.8	170	204
UT10902-91	86.6	50.3	12.5	77.7	75.6	169	205
UT10905-72	90.1	51.3	12.6	89.9	73.2	170	206
UT10905-91	87.1	51.1	12.7	87.7	73.9	169	206
11WA-107.58	85.4	54.7	13.6	90.9	70.4	172	209
12WA-120.14	83.3	52.4	13.9	92.2	69.9	174	208
12WA-120.17	91.2	52.9	14.2	93.4	71.9	173	208
2B10-4162	85.9	53.1	13.5	76.8	66.3	174	206
2B11-4949	87.3	52.8	12.9	86.5	63.3	174	209
2B11-5166	83.6	51.5	13.9	83.2	68.2	171	205
MT050051	79.7	53.2	13.7	85.8	68.4	173	206
MT050059	76.1	53.6	14.0	90.0	70.0	174	206
MT050169	82.3	53.9	13.6	91.4	68.6	172	207
MT070043	77.4	52.0	14.6	79.5	66.7	174	208
MT070144	83.7	53.6	13.2	94.0	72.5	175	206
MT080192	83.6	52.2	13.1	87.1	67.7	177	209
MT080256	78.6	52.7	13.9	90.2	72.9	172	207
MT080351	76.6	52.5	14.8	90.2	70.6	174	206
MT090025	73.7	50.6	10.4	47.6	62.2	170	207
MT090169	75.4	53.8	12.3	89.3	71.0	172	207
MT090184	79.2	53.4	12.2	90.7	71.9	175	211
MT090202	75.5	53.7	13.0	92.7	71.5	173	210
MT090234	75.6	51.0	12.6	92.2	72.7	173	208
MT090236	71.8	53.3	12.3	90.6	70.7	170	207
MT103038-4	52.5	47.1	17.8	77.3	69.7	173	205
MT103038-6	52.1	47.6	18.2	77.2	65.3	173	207
MT103089-3	63.7	45.5	15.6	26.1	76.3	173	205
MT103097-1	56.4	51.3	15.2	63.5	80.3	173	204
MT103101-5	46.8	50.3	15.5	80.9	81.1	173	204
MT124001	76.4	53.6	13.3	89.8	72.4	173	207
MT124007	76.4	53.3	13.5	91.7	74.4	172	209
MT124008	76.0	53.4	12.9	90.6	74.8	173	207
MT124015	82.2	53.2	14.1	91.3	75.3	173	208
MT124018	77.3	53.2	13.3	93.0	70.0	172	207
MT124025	78.6	52.8	13.5	91.3	75.4	174	208
MT124026	79.0	53.1	12.9	91.7	76.4	173	209
MT124027	82.4	53.2	13.5	89.1	70.5	173	207
MT124071	77.7	52.9	12.8	90.2	72.8	172	208
MT124093	67.5	53.3	14.4	93.7	78.6	173	208
MT124113	64.7	52.8	12.6	94.8	73.4	170	209
MT124127	75.0	54.4	13.8	93.1	70.4	171	205
MT124128	66.9	54.2	12.3	96.6	70.0	169	206
MT124134	72.4	53.9	12.2	96.8	71.8	169	209
MT124148	83.8	53.2	12.7	76.9	66.1	174	208
MT124163	74.6	53.3	12.4	93.7	66.9	172	208
MT124164	73.7	52.6	11.8	84.0	66.8	173	208
MT124361	73.6	53.3	13.7	92.9	68.5	172	206
MT124370	75.2	53.0	12.5	89.3	63.0	174	208
MT124380	75.1	53.0	12.7	88.8	65.2	173	207
MT124601	74.6	51.9	12.8	90.8	72.0	174	209
MT124659	61.0	53.3	12.3	91.8	65.5	170	208
MT124664	66.9	53.3	12.6	93.4	68.2	171	209
MT124677	69.3	53.9	12.9	93.4	68.3	171	207
GRAND MEAN	75.9	52.5	13.5	86.5	70.8	172.4	206.9

Dryland 2016 Statewide Means

Yield (bu/ac)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
Balster	94.5	63.2	100.4	97.3	88.2	107.4	92.3	91.5
Champion	117.9	75.7	84.9	91.3	104.7	106.1	100.4	93.3
Conrad		65.0		86.0	92.6		86.2	82.5
Copeland	115.9	69.6	101.5	96.8	82.0	100.3	90.3	90.1
Genie	114.7	74.7	105.3	101.2	86.9	107.3	90.7	94.4
Geraldine		65.5		94.3	101.4		88.0	87.3
Growler	87.5	65.0	98.6	102.5	81.7	117.0	78.4	90.5
Harrington	100.0	61.9	103.5	83.4	82.0	98.2	90.4	82.7
Haxby	111.1	67.3	101.4	68.7	83.1	107.5	79.8	79.6
Hays		67.2		78.9	94.3		92.7	83.3
Hockett	109.6	70.7	106.3	74.2	101.5	106.6	92.8	88.6
Lavina		67.9		63.6	90.0		94.1	78.9
Metcalfe	95.5	60.3	102.5	74.4	79.0	97.1	82.6	78.3
Odyssey	119.1	69.1	95.5	115.8	90.3	120.0	101.8	98.8
Overture	113.3	53.2	116.4	102.4	85.3	104.8	81.7	90.6
Scarlett		56.0		80.8	97.8		50.1	71.2
Stellar		54.4		70.0	82.1		68.1	68.7
Stepford		49.5		41.1	74.6		83.0	62.1
Synergy	104.9	68.9	94.3	86.9	86.9	107.6	92.6	89.5
Vespa	98.5	67.8	102.5	104.5	95.9	110.4	82.2	93.9
Westminster	114.4	62.8	89.8	94.0	90.2	103.5	89.4	88.3
Average	106.9	64.6	100.2	86.1	89.1	106.7	86.1	84.9
08ARS012-79	107.9	66.0	90.5	77.3	89.0	106.7	87.4	86.2
08ARS028-20	98.5	67.7	108.0	106.3	79.6	107.8	92.1	93.6
08ARS116-91	100.3	65.4	101.9	95.0	83.6	118.0	90.2	92.4
10WA-117.17	105.3	75.6	96.3	88.9	92.4	102.1	86.9	90.4
10WA-117.24	80.7	63.3	83.8	66.4	84.1	88.3	84.7	78.4
11WA-107.43	107.7	75.4	90.0	97.0	87.2	101.9	88.0	89.9
11WA-107.58		67.7		89.5	90.1		94.2	85.4
12WA-120.14		57.8		82.4	100.9		92.2	83.3
12WA-120.17		79.9		86.1	96.1		102.6	91.2
2B10-4162		62.3		91.5	102.2		87.4	85.9
2B11-4949		69.1		98.9	91.4		89.8	87.3
2B11-5166		67.9		79.8	92.8		93.8	83.6
ME08032-156	102.7	63.3	101.3	105.9	93.3	116.2	80.3	93.4
ME08053-050	98.5	66.0	86.2	71.9	87.4	94.9	84.7	81.9
UT10902-91		63.3		87.3	94.6		101.3	86.6
UT10905-72		68.3		86.4	108.8		97.0	90.1
UT10905-91		69.0		66.5	109.5		103.3	87.1
MT050051		62.4		81.2	89.1		86.0	79.7
MT050059		59.2		69.6	85.7		89.7	76.1
MT050169		63.6		85.7	92.8		86.9	82.3
MT070043		63.5		74.3	90.5		81.3	77.4
MT070144		64.9		72.6	104.8		92.4	83.7
MT080087	95.3	73.6	65.0	99.0	88.7	97.6	90.1	85.7
MT080112	101.5	65.2	90.9	85.4	88.1	98.5	90.7	86.5
MT080192		68.6		77.6	96.1		92.1	83.6
MT080243	99.7	74.0	79.0	94.0	80.1	99.8	95.6	87.1
MT080256		58.7		77.1	87.7		90.7	78.6
MT080351		61.1		72.2	84.4		88.6	76.6
MT080370	105.3	66.5	78.9	85.9	83.7	100.0	88.3	83.9
MT090025		65.0		69.4	91.2		69.2	73.7
MT090169		62.4		72.6	79.2		87.5	75.4
MT090182	107.4	74.1	110.7	92.7	85.7	94.3	91.7	91.5

Dryland 2016 Statewide Means

Yield (bu/ac)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
MT090184		61.7		80.1	79.7		95.4	79.2
MT090190	96.7	64.4	93.5	86.4	78.4	97.4	81.6	83.6
MT090193	97.9	66.8	87.2	92.1	74.5	100.2	89.6	85.1
MT090202		57.5		75.0	81.3		88.0	75.5
MT090234		67.5		72.8	77.4		84.5	75.6
MT090236		51.4		66.4	84.8		84.7	71.8
MT100120	100.8	57.8	98.6	91.0	79.0	105.3	90.9	87.1
MT100126	106.3	59.9	94.9	89.2	57.4	98.3	85.8	80.9
MT103038-4		42.6		48.7	52.3		66.4	52.5
MT103038-6		38.7		49.3	60.0		60.2	52.1
MT103089-3		46.1		46.3	83.2		79.2	63.7
MT103097-1		42.5		50.7	67.9		64.5	56.4
MT103101-5		29.0		31.6	55.6		71.0	46.8
MT124001		56.7		75.2	87.9		85.6	76.4
MT124007		57.9		72.2	86.0		89.6	76.4
MT124008		57.8		72.4	90.2		83.4	76.0
MT124015		68.6		74.6	90.7		94.9	82.2
MT124016	111.4	65.6	99.7	97.7	91.8	103.2	90.4	91.4
MT124018		57.9		68.1	94.4		88.7	77.3
MT124025		59.2		75.4	87.1		92.6	78.6
MT124026		62.0		77.1	83.0		93.9	79.0
MT124027		57.8		81.9	90.8		99.0	82.4
MT124069	100.4	67.9	93.7	95.0	76.2	84.9	87.0	84.1
MT124071		63.4		72.6	84.2		90.4	77.7
MT124073	95.8	63.9	113.4	92.5	77.7	97.0	93.4	89.7
MT124093		50.7		59.8	73.3		86.0	67.5
MT124112	95.8	62.2	90.9	73.1	86.1	80.6	87.1	80.0
MT124113		53.0		62.6	64.9		78.3	64.7
MT124118	98.1	64.8	101.4	74.5	81.7	90.5	77.1	81.7
MT124127		63.0		66.8	88.7		81.6	75.0
MT124128		53.1		68.0	73.4		73.2	66.9
MT124134		60.7		64.2	78.5		86.2	72.4
MT124148		57.9		91.7	97.5		88.2	83.8
MT124163		63.6		70.4	73.5		90.9	74.6
MT124164		55.2		81.5	77.3		80.8	73.7
MT124243	115.8	71.0	94.4	97.6	78.1	107.5	87.1	89.3
MT124361		58.9		68.4	84.2		83.0	73.6
MT124370		60.5		76.8	81.0		82.4	75.2
MT124380		57.2		78.6	79.6		85.1	75.1
MT124411	85.2	52.8	92.7	78.8	64.5	79.1	90.4	76.4
MT124454	102.8	64.9	91.2	78.1	77.6	96.4	89.3	82.9
MT124457	105.1	64.2	78.4	72.8	78.9	100.4	88.4	80.5
MT124555	105.2	68.6	104.6	86.7	66.0	110.1	76.6	85.4
MT124582	104.9	68.5	96.3	73.9	79.7	96.5	89.2	84.0
MT124601		62.8		74.1	68.3		93.2	74.6
MT124645	92.9	59.3	82.9	85.5	75.0	95.0	78.7	79.4
MT124659		52.7		50.2	67.1		74.1	61.0
MT124663	89.0	53.1	88.2	71.7	67.4	77.2	89.1	74.5
MT124664		51.2		68.5	69.0		78.8	66.9
MT124673	88.2	50.8	66.0	71.0	59.1	79.3	82.3	68.1
MT124677		54.7		67.2	75.0		80.2	69.3
MT124688	97.0	64.7	107.2	90.0	87.3	105.6	80.4	89.2
MT124716	90.0	62.1	87.5	83.1	70.8	98.6	81.0	80.5
MT124728	100.4	64.7	90.2	83.5	84.1	103.9	86.1	85.4
GRAND MEAN	101.8	62.0	94.5	79.4	83.7	100.6	86.4	80.2
CV	10.41	10.74	18.16	5.58	6.58	11.71	9.145	
LSD	22.74	14.4	37.05	9.435	11.83	25.36	16.98	

Dryland 2016 Statewide Means

Protein (%)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
Balster	11.3	11.8	9.2	14.8	14.0	9.2	12.9	12.0
Champion	11.8	11.3	9.8	15.8	13.2	11.1	13.1	12.8
Conrad		12.1		16.7	15.0		15.1	14.7
Copeland	12.0	12.3	9.4	15.2	12.6	10.0	13.9	12.2
Genie	10.9	11.0	9.0	14.1	13.3	9.1	12.8	11.6
Geraldine		10.6		16.3	13.3		13.3	13.4
Growler	11.9	12.3	9.2	13.9	13.5	8.9	13.5	11.9
Harrington	12.2	11.5	10.2	16.5	14.9	9.4	13.5	13.3
Haxby	11.9	11.9	10.2	16.6	14.1	11.6	13.4	13.5
Hays		12.0		17.4	14.1		13.8	14.3
Hockett	10.4	11.9	9.7	16.1	13.4	10.3	13.5	13.1
Lavina		10.8		18.0	13.9		14.1	14.2
Metcalfe	12.1	12.5	10.2	17.1	14.0	10.3	13.8	13.6
Odyssey	10.8	12.0	9.2	14.1	14.8	8.6	12.6	11.9
Overture	11.5	12.0	8.9	13.9	12.6	8.5	13.6	11.6
Scarlett		10.0		17.7	14.0		13.3	13.8
Stellar		11.9		15.1	12.9		12.4	13.1
Stepford		12.2		15.7	13.5		13.6	13.8
Synergy	11.4	11.7	9.1	15.6	13.2	9.6	12.7	12.0
Vespa	11.0	12.5	9.1	15.5	13.4	9.5	13.5	12.3
Westminster	12.2	12.1	9.3	15.8	13.3	9.4	13.7	12.3
Average	11.5	11.7	9.5	15.8	13.7	9.7	13.4	12.9
08ARS012-79	11.4	11.9	9.3	15.0	14.9	9.3	12.8	12.2
08ARS028-20	11.2	11.9	8.9	15.0	13.2	9.3	13.1	11.9
08ARS116-91	11.8	12.3	9.7	15.1	14.5	10.2	13.2	12.5
10WA-117.17	11.0	12.2	9.3	15.4	13.6	9.3	13.4	12.2
10WA-117.24	12.1	11.8	9.8	17.4	13.7	9.1	13.2	12.5
11WA-107.43	11.4	11.9	9.9	14.9	13.6	10.3	12.9	12.3
11WA-107.58		11.1		15.9	14.2		13.0	13.6
12WA-120.14		11.4		16.5	14.5		13.3	13.9
12WA-120.17		11.8		16.8	14.4		13.9	14.2
2B10-4162		11.2		15.7	13.4		13.7	13.5
2B11-4949		9.2		15.7	13.6		13.0	12.9
2B11-5166		11.0		16.9	13.7		14.0	13.9
ME08032-156	12.5	12.6	9.1	14.7	13.8	9.4	13.7	12.2
ME08053-050	12.3	12.3	10.4	16.9	13.9	10.3	14.1	13.0
UT10902-91		10.6		14.4	12.4		12.5	12.5
UT10905-72		10.8		14.9	12.1		12.7	12.6
UT10905-91		10.4		15.3	12.3		12.8	12.7
MT050051		11.0		16.1	14.3		13.2	13.7
MT050059		11.9		16.3	14.1		13.8	14.0
MT050169		10.0		16.6	14.7		13.2	13.6
MT070043		12.0		16.9	14.4		14.9	14.6
MT070144		9.4		16.8	13.2		13.2	13.2
MT080087	12.0	12.3	11.2	15.9	13.6	9.3	13.7	12.7
MT080112	11.1	12.2	9.1	15.8	13.0	10.5	14.0	12.4
MT080192		9.8		16.1	13.6		13.0	13.1
MT080243	11.4	12.5	8.9	15.3	12.9	10.0	13.1	12.1
MT080256		10.5		16.7	14.4		13.8	13.9
MT080351		11.9		18.0	15.6		13.6	14.8
MT080370	12.1	12.2	9.7	15.6	13.0	9.9	14.0	12.4
MT090025		8.2		12.8	10.2		10.2	10.4
MT090169		10.8		14.5	11.7		12.1	12.3
MT090182	10.3	11.3	8.8	13.9	12.9	8.9	12.0	11.3

Dryland 2016 Statewide Means

Protein (%)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
MT090184		10.3		14.1	12.2		12.1	12.2
MT090190	11.0	11.2	8.7	13.5	12.7	8.9	12.4	11.2
MT090193	11.1	11.3	8.8	14.0	14.4	10.3	11.6	11.7
MT090202		10.9		15.6	12.7		12.7	13.0
MT090234		10.6		15.1	12.2		12.4	12.6
MT090236		10.5		14.8	11.7		12.2	12.3
MT100120	10.2	11.3	8.9	13.1	13.8	9.7	11.9	11.5
MT100126	11.2	11.3	8.5	13.4	13.4	9.0	12.1	11.3
MT103038-4		16.4		19.8	16.8		18.1	17.8
MT103038-6		17.5		19.7	17.3		18.1	18.2
MT103089-3		12.9		18.4	15.4		15.7	15.6
MT103097-1		12.3		18.7	14.9		14.8	15.2
MT103101-5		13.6		18.3	14.7		15.5	15.5
MT124001		11.4		15.5	13.3		12.9	13.3
MT124007		11.6		16.3	13.7		12.5	13.5
MT124008		9.8		15.8	12.5		13.4	12.9
MT124015		12.6		16.3	13.8		13.6	14.1
MT124016	11.0	11.6	9.3	14.5	13.5	9.6	12.6	11.9
MT124018		10.3		16.5	13.4		12.8	13.3
MT124025		11.6		15.5	13.2		13.8	13.5
MT124026		9.9		15.4	13.3		13.0	12.9
MT124027		11.6		15.8	13.0		13.5	13.5
MT124069	10.0	12.2	9.1	14.2	13.8	9.1	13.5	12.0
MT124071		10.9		15.4	12.3		12.4	12.8
MT124073	11.2	12.0	9.6	14.1	13.0	10.6	12.3	11.9
MT124093		11.9		17.5	14.4		13.7	14.4
MT124112	11.0	11.4	9.9	13.6	13.5	9.8	12.0	11.7
MT124113		11.2		14.4	12.3		12.3	12.6
MT124118	12.3	11.7	9.9	15.9	12.6	10.2	12.9	12.2
MT124127		12.3		16.1	13.3		13.4	13.8
MT124128		11.1		14.4	12.0		11.7	12.3
MT124134		11.0		14.3	11.8		11.8	12.2
MT124148		9.3		15.5	12.7		13.2	12.7
MT124163		10.4		14.3	12.2		12.6	12.4
MT124164		8.8		14.9	12.2		11.2	11.8
MT124243	10.2	10.5	8.8	13.6	14.2	9.5	11.6	11.4
MT124361		10.6		17.3	13.7		13.3	13.7
MT124370		10.4		15.1	12.3		12.3	12.5
MT124380		10.4		15.4	12.7		12.4	12.7
MT124411	12.2	13.2	10.6	15.6	14.1	11.5	13.4	13.1
MT124454	11.9	12.8	9.5	16.0	13.6	10.4	13.8	12.7
MT124457	11.1	11.9	9.7	15.5	13.5	10.8	13.7	12.5
MT124555	10.9	11.7	8.9	15.0	13.5	10.0	13.0	12.0
MT124582	12.5	12.2	9.8	16.2	14.1	10.0	13.0	12.6
MT124601		10.6		14.9	12.9		12.6	12.8
MT124645	12.0	11.7	10.0	15.0	13.2	9.6	12.8	12.1
MT124659		10.0		14.7	12.5		12.1	12.3
MT124663	11.2	12.4	10.0	14.5	14.6	10.2	12.5	12.4
MT124664		10.9		14.1	12.5		12.7	12.6
MT124673	11.5	12.2	10.5	14.5	13.7	9.8	11.9	12.1
MT124677		10.9		14.9	12.5		13.1	12.9
MT124688	11.3	11.3	9.6	14.6	12.8	9.6	12.3	11.7
MT124716	11.7	13.5	10.6	15.0	14.1	11.4	14.2	13.1
MT124728	11.0	13.2	10.6	15.4	13.5	11.0	14.2	13.0
GRAND MEAN	11.4	11.5	9.5	15.6	13.5	9.8	13.2	12.9
CV	7.25	8.9	4.72	2.985	4.145	6.35	5.115	
LSD	1.78		0.97	1.01	1.205	1.34	1.445	

Dryland 2016 Statewide Means

Test Weight (lb/bu)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
Balster	51.2	53.4	52.5	50.7	52.0	51.3	54.6	52.4
Champion	55.0	56.6	55.0	52.2	53.0	54.6	56.4	54.5
Conrad		55.4		50.9	51.7		53.8	52.9
Copeland	53.3	53.7	54.4	51.5	52.0	53.6	54.6	53.3
Genie	52.8	56.5	53.6	52.2	52.1	53.4	55.8	53.9
Geraldine		54.8		50.7	52.6		54.1	53.0
Growler	52.6	53.6	52.7	49.8	52.6	52.3	53.6	52.4
Harrington	53.1	53.1	54.8	50.4	51.6	53.7	55.2	52.6
Haxby	55.2	54.9	55.3	53.5	52.4	55.0	56.2	54.4
Hays		55.9		49.3	50.3		52.7	52.1
Hockett	53.8	54.8	54.3	51.9	52.9	54.2	56.1	54.0
Lavina		56.0		48.2	48.8		51.9	51.2
Metcalfe	53.6	55.9	53.9	51.1	52.0	53.1	55.1	53.5
Odyssey	52.3	56.3	52.0	51.0	53.0	52.2	55.6	53.4
Overture	53.1	56.4	52.1	52.1	51.9	52.1	55.5	53.4
Scarlett		55.9		51.6	52.1		55.1	53.7
Stellar		55.3		49.7	50.1		53.1	52.0
Stepford		56.7		44.6	46.0		50.7	49.5
Synergy	52.4	54.2	52.2	51.7	53.0	51.9	54.9	53.0
Vespa	52.6	55.7	52.4	52.0	52.6	52.8	54.8	53.4
Westminster	53.4	53.1	53.9	51.7	52.4	53.3	55.7	53.3
Average	53.2	55.1	53.5	50.8	51.7	53.1	54.5	52.9
08ARS012-79	53.5	55.6	54.0	51.0	52.4	52.9	55.8	53.6
08ARS028-20	51.9	54.3	54.1	50.3	52.6	52.7	54.3	53.0
08ARS116-91	52.3	52.5	53.5	52.1	52.4	53.1	55.1	53.1
10WA-117.17	52.4	53.8	54.0	50.6	52.7	53.1	54.9	53.2
10WA-117.24	50.3	55.5	52.3	48.6	52.6	52.4	53.7	52.5
11WA-107.43	53.6	56.0	54.6	52.7	54.2	53.8	56.3	54.6
11WA-107.58		56.6		52.9	52.6		56.6	54.7
12WA-120.14		54.1		49.9	51.7		53.9	52.4
12WA-120.17		54.6		50.4	51.5		55.0	52.9
2B10-4162		54.7		51.2	52.4		54.3	53.1
2B11-4949		56.4		49.7	50.3		54.8	52.8
2B11-5166		54.2		48.3	49.5		54.0	51.5
ME08032-156	51.3	54.2	53.0	52.0	53.2	52.9	55.5	53.5
ME08053-050	53.3	54.5	53.6	50.4	53.0	53.3	55.3	53.4
UT10902-91		55.9		46.7	47.2		51.5	50.3
UT10905-72		56.7		47.2	48.5		52.6	51.3
UT10905-91		54.2		48.4	49.2		52.6	51.1
MT050051		56.4		50.7	51.5		54.2	53.2
MT050059		56.5		52.2	50.9		54.6	53.6
MT050169		56.6		51.9	51.8		55.2	53.9
MT070043		52.1		50.4	51.1		54.4	52.0
MT070144		55.9		51.5	52.2		54.8	53.6
MT080087	52.3	52.5	54.3	52.6	52.5	53.0	55.5	53.4
MT080112	54.4	55.4	54.6	51.4	52.1	54.5	55.4	53.9
MT080192		50.7		51.4	50.7		56.2	52.2
MT080243	53.4	54.3	53.5	52.0	52.7	53.8	55.4	53.6
MT080256		54.9		51.1	50.8		54.1	52.7
MT080351		56.3		49.4	49.9		54.4	52.5
MT080370	54.8	55.3	54.2	51.9	53.2	53.0	54.2	53.6
MT090025		54.7		48.1	47.9		51.8	50.6
MT090169		56.5		51.8	51.1		55.6	53.8
MT090182	54.4	55.6	54.1	51.3	52.6	53.1	55.9	53.8

Dryland 2016 Statewide Means

Test Weight (lb/bu)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
MT090184		56.4		51.8	49.9		55.8	53.4
MT090190	53.9	54.9	53.8	51.6	51.9	53.1	55.7	53.5
MT090193	53.2	56.4	52.6	51.3	52.7	53.0	55.4	53.6
MT090202		57.2		51.2	50.8		55.5	53.7
MT090234		48.9		50.8	50.0		54.2	51.0
MT090236		56.0		50.0	51.8		55.6	53.3
MT100120	54.3	55.6	53.7	51.7	53.5	53.9	56.1	54.1
MT100126	54.8	55.5	53.7	51.1	52.8	54.5	56.2	54.0
MT103038-4		51.6		40.8	43.1		52.9	47.1
MT103038-6		55.8		39.6	44.0		51.0	47.6
MT103089-3		55.1		36.3	43.1		47.4	45.5
MT103097-1		56.2		47.8	49.2		52.1	51.3
MT103101-5		53.7		46.0	48.8		52.6	50.3
MT124001		56.3		51.6	51.7		55.1	53.6
MT124007		55.1		51.1	51.6		55.4	53.3
MT124008		56.6		51.2	51.2		54.6	53.4
MT124015		55.3		50.9	51.6		55.0	53.2
MT124016	52.4	52.7	53.7	51.7	53.3	53.6	54.7	53.3
MT124018		55.9		50.4	51.4		55.1	53.2
MT124025		55.1		51.0	51.3		53.8	52.8
MT124026		56.6		50.8	50.2		54.8	53.1
MT124027		57.4		51.0	51.1		53.3	53.2
MT124069	52.6	53.6	53.0	51.4	52.7	52.9	54.3	53.0
MT124071		55.7		50.3	50.8		54.9	52.9
MT124073	53.0	55.3	54.7	51.5	54.3	53.4	55.0	54.0
MT124093		55.6		51.3	50.5		55.6	53.3
MT124112	53.4	55.6	52.7	51.1	52.4	52.4	55.5	53.3
MT124113		56.1		50.2	49.9		55.2	52.8
MT124118	55.1	57.8	55.1	51.6	51.5	53.7	56.4	54.3
MT124127		55.4		52.6	53.6		56.0	54.4
MT124128		56.5		51.5	52.6		56.1	54.2
MT124134		55.6		51.0	52.8		56.1	53.9
MT124148		55.8		50.6	52.2		54.1	53.2
MT124163		56.0		51.6	50.5		55.0	53.3
MT124164		55.2		51.6	50.0		53.7	52.6
MT124243	53.7	56.5	53.3	51.2	53.1	52.3	54.8	53.5
MT124361		55.1		51.1	51.6		55.6	53.3
MT124370		55.6		51.1	51.4		54.0	53.0
MT124380		56.1		51.2	51.1		53.7	53.0
MT124411	55.1	53.8	54.1	51.5	53.4	52.8	56.2	53.6
MT124454	55.3	55.6	55.0	52.2	52.8	54.4	56.7	54.5
MT124457	55.3	54.7	54.7	52.6	53.8	54.1	56.9	54.5
MT124555	54.5	55.4	54.5	53.0	53.8	54.2	56.3	54.5
MT124582	55.0	56.1	54.3	51.6	51.9	54.0	55.7	53.9
MT124601		51.7		52.0	49.6		54.5	51.9
MT124645	53.2	54.9	53.3	51.8	52.3	53.3	54.7	53.4
MT124659		55.9		51.8	50.3		55.4	53.3
MT124663	53.8	57.2	52.7	50.2	53.0	52.1	56.4	53.6
MT124664		54.5		51.9	50.9		56.0	53.3
MT124673	54.4	54.4	52.9	49.0	53.2	53.3	56.2	53.1
MT124677		56.1		51.7	51.6		56.3	53.9
MT124688	54.8	55.5	54.7	52.2	52.0	53.7	55.5	53.9
MT124716	52.3	56.1	55.2	51.3	53.5	53.8	55.4	54.2
MT124728	53.0	54.8	54.7	51.2	52.7	53.5	55.4	53.7
GRAND MEAN	53.4	55.2	53.8	50.6	51.4	53.3	54.8	53.0
CV	1.33	3.42	1.22	1.31	1.915	1.27	1.265	
LSD	1.52	5.04	1.41	1.42	2.135	1.46	1.49	

Dryland 2016 Statewide Means

Plump (% over 6/64)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
Balster	93.7	93.0	97.9	91.2	91.9	98.5	87.7	93.4
Champion	97.5	91.7	97.5	88.7	92.9	98.3	91.0	92.1
Conrad		92.4		78.8	95.9		84.1	87.8
Copeland	95.0	93.1	98.4	94.4	91.6	98.2	90.6	94.4
Genie	92.6	92.0	98.7	87.4	95.6	97.9	94.3	94.3
Geraldine		80.7		71.0	89.1		73.9	78.7
Growler	93.7	90.0	97.7	93.7	89.6	98.7	90.0	93.3
Harrington	94.4	90.1	98.1	90.2	92.1	98.4	90.4	91.7
Haxby	97.4	90.1	98.9	88.1	92.2	98.5	87.5	91.0
Hays		79.2		77.0	89.6		75.2	80.3
Hockett	96.1	95.3	98.1	91.6	96.5	99.2	91.8	94.6
Lavina		70.2		72.3	84.1		62.0	72.2
Metcalfe	95.4	92.3	97.3	87.8	93.1	98.1	89.8	91.7
Odyssey	92.4	93.6	98.5	95.6	97.8	98.5	101.6	97.6
Overture	79.3	96.1	96.9	93.6	95.9	97.3	94.7	95.8
Scarlett		83.3		88.5	92.1		89.0	88.2
Stellar		81.0		81.2	89.2		77.9	82.3
Stepford		91.5		83.7	92.2		93.9	90.3
Synergy	95.7	96.5	98.8	95.7	93.6	98.9	91.8	95.9
Vespa	97.2	93.0	98.2	90.6	95.2	98.7	85.7	93.6
Westminster	95.9	93.2	98.9	94.7	94.8	98.2	92.8	95.4
Average	94.0	89.4	98.1	87.4	92.6	98.4	87.4	90.2
08ARS012-79	96.4	94.6	97.1	92.6	94.0	98.4	92.8	94.9
08ARS028-20	93.5	78.2	97.3	91.2	87.0	98.1	88.7	90.1
08ARS116-91	95.5	76.9	96.2	93.2	91.3	98.5	93.0	91.5
10WA-117.17	96.1	84.3	97.4	90.7	91.0	98.6	82.6	90.8
10WA-117.24	92.7	88.9	97.7	89.6	92.3	98.6	88.9	92.7
11WA-107.43	94.5	95.4	98.6	90.6	89.2	98.5	87.8	93.4
11WA-107.58		91.7		90.2	92.8		88.7	90.9
12WA-120.14		89.1		91.2	96.9		91.6	92.2
12WA-120.17		92.9		89.9	97.6		93.3	93.4
2B10-4162		72.3		74.0	89.6		71.3	76.8
2B11-4949		87.7		82.8	86.8		88.7	86.5
2B11-5166		81.6		78.6	88.6		84.0	83.2
ME08032-156	91.4	78.5	99.3	89.1	92.7	98.5	89.9	91.3
ME08053-050	96.6	93.0	99.0	93.9	96.0	98.7	93.2	95.6
UT10902-91		62.6		83.1	80.8		84.3	77.7
UT10905-72		90.5		86.3	93.1		89.5	89.9
UT10905-91		91.8		87.9	89.5		81.7	87.7
MT050051		86.2		84.6	92.6		79.8	85.8
MT050059		89.8		92.3	93.6		84.3	90.0
MT050169		90.8		89.1	94.2		91.5	91.4
MT070043		79.7		69.9	91.7		76.7	79.5
MT070144		93.3		92.3	97.8		92.5	94.0
MT080087	94.6	97.1	98.6	93.1	91.1	98.3	94.1	95.4
MT080112	97.3	95.1	98.4	90.3	93.8	99.0	85.2	93.6
MT080192		92.7		77.4	92.2		86.1	87.1
MT080243	94.0	94.0	91.7	88.0	86.1	97.9	87.6	90.9
MT080256		94.3		87.7	95.6		83.5	90.2
MT080351		89.0		81.2	96.1		94.5	90.2
MT080370	96.2	95.5	97.7	90.1	93.7	98.5	89.8	94.2
MT090025		52.0		43.5	58.9		35.9	47.6
MT090169		91.3		86.9	92.3		86.9	89.3
MT090182	96.8	93.1	97.1	91.4	87.2	98.2	92.4	93.2

Dryland 2016 Statewide Means

Plump (% over 6/64)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
MT090184		93.6		87.7	89.8		91.6	90.7
MT090190	96.7	96.8	97.6	91.1	88.4	99.0	92.7	94.3
MT090193	95.2	93.7	97.8	93.3	89.5	98.7	95.0	94.7
MT090202		95.3		88.2	94.0		93.5	92.7
MT090234		95.2		89.9	93.9		89.8	92.2
MT090236		93.4		90.4	93.5		85.1	90.6
MT100120	94.8	94.8	98.4	94.1	89.8	98.9	94.5	95.1
MT100126	96.0	95.7	97.2	93.5	87.2	98.9	96.5	94.8
MT103038-4		73.6		73.8	87.0		74.8	77.3
MT103038-6		68.2		83.6	88.3		68.6	77.2
MT103089-3		11.9		15.0	41.8		35.5	26.1
MT103097-1		44.9		61.9	86.1		61.2	63.5
MT103101-5		75.1		68.4	91.8		88.2	80.9
MT124001		87.2		87.8	94.9		89.4	89.8
MT124007		93.9		86.5	95.9		90.4	91.7
MT124008		94.0		86.3	95.5		86.6	90.6
MT124015		93.4		87.7	95.0		88.9	91.3
MT124016	93.5	83.5	99.1	92.1	91.6	98.0	92.4	92.8
MT124018		93.6		89.6	95.4		93.3	93.0
MT124025		95.2		89.4	94.6		86.2	91.3
MT124026		94.3		86.8	94.8		90.7	91.7
MT124027		89.0		86.0	93.3		88.0	89.1
MT124069	95.1	94.1	96.7	93.5	90.7	98.1	88.9	93.7
MT124071		92.3		88.9	93.5		86.0	90.2
MT124073	95.4	92.1	98.5	90.1	90.4	98.5	92.0	93.6
MT124093		95.8		89.4	95.2		94.5	93.7
MT124112	94.2	94.8	98.3	93.9	95.2	98.7	92.4	95.5
MT124113		96.0		92.2	95.8		95.4	94.8
MT124118	96.9	95.7	98.7	90.9	95.0	98.0	92.3	95.1
MT124127		95.4		87.4	98.0		91.5	93.1
MT124128		98.0		93.8	98.2		96.6	96.6
MT124134		98.2		95.4	97.9		95.8	96.8
MT124148		66.0		73.4	93.9		74.1	76.9
MT124163		95.2		89.9	95.7		94.1	93.7
MT124164		74.8		83.8	92.7		84.8	84.0
MT124243	95.2	93.6	98.2	92.6	83.0	98.4	92.1	93.0
MT124361		98.6		87.7	95.9		89.6	92.9
MT124370		90.0		88.4	94.6		84.1	89.3
MT124380		89.9		89.4	92.6		83.2	88.8
MT124411	95.8	96.3	97.0	93.7	92.5	98.5	95.9	95.7
MT124454	94.2	94.7	97.9	93.7	95.0	99.0	94.9	95.9
MT124457	95.0	95.0	97.7	92.3	94.2	99.0	93.0	95.2
MT124555	95.1	96.7	99.2	93.7	90.3	99.0	95.5	95.7
MT124582	96.5	95.3	97.4	93.1	92.5	99.1	91.2	94.8
MT124601		93.0		88.4	90.5		91.5	90.8
MT124645	94.2	91.9	98.3	94.0	92.6	98.7	90.2	94.3
MT124659		95.9		87.9	91.7		91.9	91.8
MT124663	91.9	97.8	98.8	92.2	96.3	99.4	98.8	97.2
MT124664		95.1		91.6	94.8		92.1	93.4
MT124673	95.5	92.1	97.4	92.5	87.6	98.7	95.6	94.0
MT124677		96.0		89.9	97.3		90.4	93.4
MT124688	95.6	90.2	97.9	93.7	89.3	97.7	91.4	93.4
MT124716	95.8	91.4	98.3	88.3	88.2	98.6	86.3	91.9
MT124728	96.7	91.1	98.2	88.3	91.7	98.5	86.9	92.5
GRAND MEAN	94.8	88.7	97.9	87.0	91.6	98.5	87.6	89.6
CV	2.29	10.86	1.16	4.055	1.695	0.52	5.845	
LSD	4.65			7.465	3.34	1.09	11.035	

Dryland 2016 Statewide Means

Height (cm)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
Balster	69.0	59.3	82.0	92.5	66.5	59.3	58.9	69.7
Champion	78.0	58.3	73.6	96.9	68.9	65.9	63.4	71.4
Conrad		57.0		88.6	64.3		56.9	66.7
Copeland	74.3	58.2	84.2	94.7	65.0	60.9	61.2	70.7
Genie	66.7	52.8	67.4	80.8	58.7	59.2	54.8	62.3
Geraldine		55.0		89.4	58.4		55.9	64.7
Growler	62.0	56.8	75.7	87.9	67.4	63.4	57.4	68.1
Harrington	66.3	60.1	89.1	96.1	69.7	59.2	62.4	72.4
Haxby	62.0	61.9	78.2	97.8	69.4	70.1	61.2	72.7
Hays		53.3		93.1	70.1		60.7	69.3
Hockett	61.7	61.8	84.6	98.7	70.1	62.9	65.4	73.9
Lavina		62.8		98.9	76.1		63.5	75.3
Metcalfe	67.3	60.4	83.9	97.8	71.7	63.5	68.2	74.2
Odyssey	67.7	55.0	67.7	80.0	64.7	58.5	57.0	63.8
Overture	72.7	53.7	71.2	80.8	62.1	56.6	57.4	63.6
Scarlett		54.2		75.7	60.9		55.6	61.6
Stellar		63.0		98.4	64.9		61.0	71.8
Stepford		67.7		105.9	75.8		69.9	79.8
Synergy	71.3	62.3	81.2	97.0	71.2	61.9	63.7	72.9
Vespa	62.7	54.3	64.8	80.5	61.1	60.2	52.1	62.2
Westminster	71.0	57.8	67.8	89.9	66.9	60.0	59.9	67.1
Average	68.1	58.4	76.5	91.5	66.8	61.5	60.3	69.2
08ARS012-79	76.0	61.0	76.6	98.0	67.5	67.8	60.3	71.9
08ARS028-20	70.0	52.7	83.5	91.4	63.3	59.3	55.9	67.7
08ARS116-91	60.3	58.7	77.0	96.3	64.6	62.6	58.2	69.6
10WA-117.17	66.3	61.7	76.8	98.0	63.8	57.6	58.0	69.3
10WA-117.24	66.0	64.7	78.5	105.2	70.2	60.9	69.2	74.8
11WA-107.43	68.0	58.7	79.0	96.0	70.0	61.9	59.3	70.8
11WA-107.58		59.3		92.7	68.3		61.5	70.4
12WA-120.14		54.5		94.7	67.6		62.7	69.9
12WA-120.17		60.8		97.9	68.8		59.9	71.9
2B10-4162		54.7		88.4	64.6		57.7	66.3
2B11-4949		53.2		82.1	62.4		55.4	63.3
2B11-5166		55.2		90.8	66.8		59.9	68.2
ME08032-156	62.7	52.2	71.9	83.1	60.7	56.8	57.1	63.6
ME08053-050	67.7	60.5	75.9	101.3	63.2	58.4	59.1	69.7
UT10902-91		63.8		102.5	71.0		65.3	75.6
UT10905-72		63.2		99.6	68.6		61.5	73.2
UT10905-91		63.2		101.1	70.4		60.7	73.9
MT050051		59.8		88.5	67.9		57.4	68.4
MT050059		59.2		93.6	64.5		62.7	70.0
MT050169		55.8		92.4	65.5		60.7	68.6
MT070043		56.0		82.6	68.3		59.9	66.7
MT070144		61.0		90.7	71.2		67.1	72.5
MT080087	64.7	57.8	66.5	83.1	60.5	54.1	57.4	63.2
MT080112	69.3	64.0	79.2	101.6	73.9	65.3	64.3	74.7
MT080192		59.2		79.7	69.5		62.5	67.7
MT080243	70.7	65.0	80.6	99.1	71.5	69.4	65.0	75.1
MT080256		61.7		94.8	72.8		62.2	72.9
MT080351		59.3		89.7	71.7		61.7	70.6
MT080370	78.0	65.7	86.5	107.7	76.2	64.2	66.5	77.8
MT090025		52.5		83.1	61.9		51.3	62.2
MT090169		59.2		96.6	68.2		59.9	71.0
MT090182	76.3	63.3	88.1	95.5	70.4	67.8	66.3	75.2

Dryland 2016 Statewide Means

Height (cm)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
MT090184		58.5		90.2	71.1		67.8	71.9
MT090190	74.0	63.3	80.4	94.7	65.4	66.8	60.3	71.8
MT090193	73.0	63.8	84.4	94.5	71.0	68.7	66.9	74.9
MT090202		58.7		94.6	68.2		64.5	71.5
MT090234		65.3		91.4	68.9		65.3	72.7
MT090236		57.0		99.0	68.3		58.4	70.7
MT100120	76.7	60.8	84.7	100.3	70.3	69.5	66.1	75.3
MT100126	76.0	58.3	82.2	94.0	70.5	67.9	64.1	72.8
MT103038-4		54.7		92.9	70.4		61.0	69.7
MT103038-6		53.2		88.4	64.2		55.4	65.3
MT103089-3		64.3		96.4	77.6		67.1	76.3
MT103097-1		72.8		98.7	78.9		70.6	80.3
MT103101-5		70.2		103.7	78.0		72.6	81.1
MT124001		61.0		98.0	68.3		62.5	72.4
MT124007		63.5		96.1	71.4		66.5	74.4
MT124008		63.0		96.1	71.8		68.3	74.8
MT124015		64.3		98.2	71.0		67.6	75.3
MT124016	71.3	55.0	77.1	97.8	68.1	60.2	62.2	70.1
MT124018		61.5		85.4	68.6		64.5	70.0
MT124025		63.8		95.5	74.6		67.8	75.4
MT124026		63.0		100.2	73.8		68.6	76.4
MT124027		57.3		91.8	64.9		68.1	70.5
MT124069	71.0	62.8	83.5	94.7	66.5	61.8	61.8	71.9
MT124071		61.7		95.3	69.9		64.3	72.8
MT124073	71.3	63.8	92.9	101.6	69.2	70.3	67.5	77.6
MT124093		66.0		98.9	75.0		74.7	78.6
MT124112	69.0	60.5	79.1	99.1	67.4	60.7	63.1	71.6
MT124113		63.5		95.4	70.4		64.3	73.4
MT124118	68.7	63.0	87.8	102.9	68.2	61.7	62.4	74.3
MT124127		60.7		90.9	66.8		63.2	70.4
MT124128		58.2		95.7	64.9		61.2	70.0
MT124134		59.8		99.8	63.2		64.5	71.8
MT124148		56.5		85.5	64.9		57.7	66.1
MT124163		57.3		90.8	62.5		57.2	66.9
MT124164		57.8		85.4	65.3		58.7	66.8
MT124243	75.0	61.2	82.7	100.3	69.2	65.1	64.1	73.8
MT124361		63.0		86.1	63.4		61.5	68.5
MT124370		54.0		82.8	62.5		52.8	63.0
MT124380		54.8		81.0	68.3		56.6	65.2
MT124411	76.7	64.5	83.1	100.1	70.5	61.0	61.8	73.5
MT124454	71.3	63.0	88.0	100.8	68.5	69.5	64.8	75.8
MT124457	72.3	66.0	85.9	101.1	67.1	64.4	65.0	74.9
MT124555	74.7	62.8	80.8	95.0	68.4	63.6	60.5	71.8
MT124582	76.3	62.8	83.9	102.4	68.6	64.3	65.0	74.5
MT124601		61.3		88.9	71.6		66.3	72.0
MT124645	69.7	58.7	79.8	95.5	66.2	65.2	61.2	71.1
MT124659		57.5		84.7	60.7		59.2	65.5
MT124663	71.7	59.5	77.5	97.5	69.8	61.7	64.1	71.7
MT124664		57.0		90.2	66.1		59.7	68.2
MT124673	69.7	56.0	66.3	94.0	65.4	62.8	58.2	67.1
MT124677		54.0		92.3	66.9		60.2	68.3
MT124688	72.0	61.7	86.1	100.8	71.2	66.8	62.6	74.9
MT124716	61.7	60.7	83.4	95.0	67.6	62.7	58.9	71.4
MT124728	62.3	59.3	80.1	95.5	70.9	64.4	57.2	71.2
GRAND MEAN	69.9	59.9	79.6	93.8	68.1	63.1	62.0	70.9
CV	8.36	5.875	10.21	5.7342	5.31	8.52	9.1068	
LSD	12.52	7.52	17.47	6.968	7.75	11.54	6.6337	

Dryland 2016 Statewide Means

Heading (julian)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
Balster	166	176	178	160	181	174	179	175
Champion	165	174	178	157	179	172	177	172
Conrad		176		159	181		180	174
Copeland	167	176	178	158	182	178	180	175
Genie	167	176	183	165	183	176	181	177
Geraldine		175		161	182		180	175
Growler	168	175	179	159	181	174	177	174
Harrington	167	176	179	159	182	174	178	174
Haxby	165	175	174	157	178	173	175	172
Hays		176		163	182		180	175
Hockett	166	175	178	157	179	171	177	172
Lavina		175		157	180		177	172
Metcalfe	165	175	178	157	179	173	176	172
Odyssey	167	176	182	164	183	178	180	177
Overture	169	177	183	165	183	176	183	178
Scarlett		176		160	181		179	174
Stellar		173		154	178		175	170
Stepford		174		156	177		173	170
Synergy	167	175	177	158	181	173	177	173
Vespa	167	176	181	166	181	178	181	177
Westminster	166	176	180	163	183	175	180	176
Average	166.7	175.4	179.1	159.8	180.7	174.6	178.2	174.1
08ARS012-79	165	175	178	157	178	173	177	173
08ARS028-20	168	176	179	160	182	176	183	176
08ARS116-91	165	175	172	156	177	174	177	172
10WA-117.17	168	176	178	158	182	175	179	175
10WA-117.24	165	175	178	158	182	172	178	174
11WA-107.43	165	175	175	157	180	172	176	172
11WA-107.58		174		157	179		177	172
12WA-120.14		175		160	180		180	174
12WA-120.17		175		157	182		178	173
2B10-4162		176		159	181		178	174
2B11-4949		176		158	182		180	174
2B11-5166		174		158	179		175	171
ME08032-156	165	175	178	158	180	176	178	174
ME08053-050	166	175	177	157	180	172	177	173
UT10902-91		172		153	177		173	169
UT10905-72		173		156	177		173	170
UT10905-91		173		153	177		173	169
MT050051		175		160	180		178	173
MT050059		175		161	182		178	174
MT050169		176		157	178		178	172
MT070043		176		161	182		178	174
MT070144		176		163	183		180	175
MT080087	166	177	179	159	182	176	180	176
MT080112	166	176	176	158	179	175	178	174
MT080192		177		166	184		182	177
MT080243	166	175	178	157	181	172	179	174
MT080256		175		157	179		178	172
MT080351		175		161	181		178	174
MT080370	165	175	178	157	179	174	176	173
MT090025		175		153	177		174	170
MT090169		175		156	180		177	172
MT090182	168	176	178	159	181	175	179	175

Dryland 2016 Statewide Means

Heading (julian)

	Sidney	Moccasin	Kalispell	Huntley	Havre	Conrad	Bozeman	Average
MT090184		174		163	183		180	175
MT090190	167	176	178	160	182	174	179	175
MT090193	167	176	180	159	183	174	180	175
MT090202		174		158	180		179	173
MT090234		174		160	181		178	173
MT090236		173		156	176		173	170
MT100120	167	176	178	158	182	175	179	175
MT100126	169	176	180	158	184	175	180	176
MT103038-4		175		157	181		177	173
MT103038-6		175		158	180		178	173
MT103089-3		176		159	180		179	173
MT103097-1		176		160	181		176	173
MT103101-5		176		157	179		178	173
MT124001		174		159	180		178	173
MT124007		175		158	179		178	172
MT124008		175		158	179		179	173
MT124015		175		158	181		179	173
MT124016	168	175	179	157	180	173	180	174
MT124018		174		158	177		178	172
MT124025		176		160	182		180	174
MT124026		175		158	181		179	173
MT124027		175		159	179		180	173
MT124069	168	175	178	163	183	176	180	176
MT124071		175		156	179		178	172
MT124073	167	174	179	157	183	173	180	174
MT124093		175		158	180		178	173
MT124112	165	174	173	157	178	169	176	171
MT124113		174		156	177		175	170
MT124118	165	174	177	157	177	172	177	172
MT124127		174		157	178		175	171
MT124128		170		154	176		174	169
MT124134		171		154	176		173	169
MT124148		176		161	181		180	174
MT124163		175		156	178		176	172
MT124164		175		158	179		180	173
MT124243	167	175	179	158	181	174	178	174
MT124361		176		158	178		176	172
MT124370		175		158	182		179	174
MT124380		175		159	181		177	173
MT124411	166	174	173	158	177	170	176	171
MT124454	167	174	174	157	178	172	178	172
MT124457	165	175	174	157	179	173	177	172
MT124555	165	175	176	159	182	175	177	174
MT124582	165	175	173	157	179	171	176	172
MT124601		175		159	181		179	174
MT124645	166	174	177	158	180	173	178	173
MT124659		173		156	178		174	170
MT124663	165	174	173	157	178	170	176	171
MT124664		175		156	179		176	171
MT124673	166	175	178	157	179	172	177	173
MT124677		175		156	179		175	171
MT124688	166	175	177	157	181	174	178	174
MT124716	166	175	177	157	180	174	179	174
MT124728	166	175	178	157	179	173	178	173
GRAND MEAN	166.4	175.0	177.6	158.2	180.0	173.7	177.8	173.1
CV	0.54	0.445	0.88	1.045	0.575	0.9	0.51	
LSD	1.92	1.665	3.37	3.55	2.23	3.36	1.935	

Dryland 2016 Statewide Means

	Moccasin	Bozeman	Average
Balster	207	204	206
Champion	208	209	208
Conrad	208	206	207
Copeland	207	207	207
Genie	209	210	209
Geraldine	207	207	207
Growler	207	205	206
Harrington	207	206	207
Haxby	206	202	204
Hays	208	208	208
Hockett	207	203	205
Lavina	206	201	204
Metcalfe	207	202	205
Odyssey	210	211	210
Overture	210	209	210
Scarlett	207	205	206
Stellar	208	202	205
Stepford	207	202	204
Synergy	208	204	206
Vespa	208	207	208
Westminster	208	206	207
Average	207.6	205.6	206.6
08ARS012-79	208	205	207
08ARS028-20	208	206	207
08ARS116-91	207	206	206
10WA-117.17	206	205	206
10WA-117.24	206	206	206
11WA-107.43	209	207	208
11WA-107.58	208	209	209
12WA-120.14	208	207	208
12WA-120.17	207	209	208
2B10-4162	207	204	206
2B11-4949	210	208	209
2B11-5166	206	204	205
ME08032-156	206	206	206
ME08053-050	208	206	207
UT10902-91	205	204	205
UT10905-72	206	206	206
UT10905-91	208	205	206
MT050051	207	205	206
MT050059	207	205	206
MT050169	208	206	207
MT070043	208	208	208
MT070144	207	204	206
MT080087	209	206	208
MT080112	208	206	207
MT080192	209	209	209
MT080243	208	204	206
MT080256	209	206	207
MT080351	206	205	206
MT080370	208	203	206
MT090025	208	205	207
MT090169	207	207	207
MT090182	210	210	210

Maturity (julian)

	Moccasin	Bozeman	Average
MT090184	208	213	211
MT090190	210	209	210
MT090193	209	211	210
MT090202	209	211	210
MT090234	208	209	208
MT090236	209	205	207
MT100120	210	209	210
MT100126	210	212	211
MT103038-4	207	204	205
MT103038-6	207	207	207
MT103089-3	206	205	205
MT103097-1	206	202	204
MT103101-5	207	201	204
MT124001	208	206	207
MT124007	208	209	209
MT124008	207	208	207
MT124015	208	208	208
MT124016	207	206	207
MT124018	207	207	207
MT124025	208	208	208
MT124026	208	210	209
MT124027	208	207	207
MT124069	208	206	207
MT124071	209	208	208
MT124073	208	208	208
MT124093	208	208	208
MT124112	209	205	207
MT124113	208	209	209
MT124118	208	205	207
MT124127	208	203	205
MT124128	207	204	206
MT124134	209	209	209
MT124148	208	207	208
MT124163	209	207	208
MT124164	208	208	208
MT124243	210	207	209
MT124361	208	204	206
MT124370	208	207	208
MT124380	208	207	207
MT124411	210	209	209
MT124454	208	205	206
MT124457	208	205	206
MT124555	208	208	208
MT124582	208	204	206
MT124601	208	210	209
MT124645	208	207	207
MT124659	208	208	208
MT124663	210	209	210
MT124664	209	209	209
MT124673	210	211	210
MT124677	208	205	207
MT124688	210	208	209
MT124716	208	204	206
MT124728	208	204	206
GRAND MEAN	207.9	206.5	207.2
CV	0.54	1.01	
LSD	2.39	4.435	

	Yield	Test Wt	Protein	Height	Plump	Dry Matter	Tons/Acre	Heading	Maturity
	bu/ac	lb/bu	%	cm	%	%		julian	julian
Hays	92.1	52.7	13.9	60.8	75.04	33.6	2.7	180	208
Lavina	90.6	51.9	14.1	63.5	61.91	36.5	2.9	177	201
Stepford	83.6	50.8	13.6	69.9	93.98	37.0	2.7	173	202
MT103038-4	66.9	52.9	18.2	60.9	74.69	33.8	3.0	177	204
MT103038-6	59.8	51.0	18.1	55.2	68.62	33.4	2.3	178	207
MT103089-3	78.1	47.5	15.7	67.1	35.49	33.2	2.5	179	205
MT103097-1	65.4	52.0	14.8	70.5	61.13	38.9	2.6	176	202
MT103101-5	70.8	52.6	15.5	72.6	88.24	35.8	2.5	178	201
GRAND MEAN	75.9	51.42	15.5	65.07	69.9	35.28	2.6	177.42	203.7
CV	10.6	1.32	3.65	6.03	10.77	3.29	14.61	0.5	0.85
LSD	19.56	1.65	1.37	9.54	18.3	2.82	0.94	2.16	4.22

Irrigated Hulless 2016 Statewide Means

	Yield (59lb bu/ac)				
	Sidney	Huntley	Conrad	Bozeman	Average
PI596299	66.3	66.0	72.5	90.9	73.9
Purple Prairie	45.3	31.9	40.4	43.2	40.2
PPB-TS2	59.9	30.6	48.2	54.8	48.4
09WA-265.12	70.7	73.7	79.2	95.9	79.9
X05013-T1	76.2	74.4	80.8	98.9	82.6
X0626-T229	78.0	58.3	86.0	95.9	79.6
X07G30-T131	71.7	64.7	80.9	97.8	78.8
MT110008	64.2	62.5	76.1	80.0	70.7
MT110009	54.5	63.0	70.2	85.2	68.2
MT110016	60.8	62.8	76.8	85.3	71.4
MT110061	68.0	48.6	69.5	81.9	67.0
MT110065	64.9	56.9	75.4	89.3	71.6
MT110066	73.7	50.7	79.5	88.9	73.2
MT110097	56.8	53.2	75.3	87.0	68.1
MT110139	70.0	43.9	67.3	82.3	65.9
MT110141	61.5	42.6	53.0	66.4	55.9
GRAND MEAN	65.1	55.3	70.7	82.7	68.5
CV	7.61	6.95	8.78	7.61	
LSD	11.13	8.88	14	14.56	

	Protein (%)				
	Sidney	Huntley	Conrad	Bozeman	Average
PI596299	16.7	12.7	12.0	14.0	13.9
Purple Prairie	17.5	13.9	15.1	15.6	15.5
PPB-TS2	16.9	13.2	15.1	14.3	14.9
09WA-265.12	13.8	9.2	9.8	11.4	11.1
X05013-T1	15.0	11.0	11.5	13.7	12.8
X0626-T229	14.9	12.0	12.3	12.7	13.0
X07G30-T131	14.9	10.4	11.4	13.3	12.5
MT110008	14.8	10.3	11.1	12.1	12.1
MT110009	15.9	10.2	11.8	12.6	12.6
MT110016	15.2	10.2	11.8	11.9	12.3
MT110061	15.6	12.1	13.0	12.8	13.4
MT110065	15.4	11.0	11.3	12.4	12.5
MT110066	15.4	11.7	12.8	12.8	13.2
MT110097	15.4	13.2	13.5	13.4	13.9
MT110139	13.1	9.3	10.4	10.8	10.9
MT110141	15.8	13.0	14.9	13.9	14.4
GRAND MEAN	15.4	11.5	12.4	13.0	13.0
CV	2.99	3.93	5.65	5.22	
LSD	1.03	1.01	1.58	1.57	

	Test Weight (lb/bu)				
	Sidney	Huntley	Conrad	Bozeman	Average
PI596299	47.4	48.7	48.7	53.7	49.6
Purple Prairie	60.9	60.5	62.5	64.6	62.1
PPB-TS2	61.4	63.0	62.1	65.1	62.9
09WA-265.12	59.4	61.6	60.5	63.9	61.3
X05013-T1	57.1	60.3	60.9	63.2	60.4
X0626-T229	56.0	57.9	56.1	60.5	57.6
X07G30-T131	57.2	59.8	60.5	63.3	60.2
MT110008	55.4	59.7	58.0	61.8	58.7
MT110009	52.8	59.6	58.7	62.6	58.4
MT110016	55.9	60.5	59.5	63.6	59.9
MT110061	56.0	59.1	58.4	62.3	58.9
MT110065	55.6	59.3	57.5	62.2	58.6
MT110066	56.9	59.3	57.3	62.3	59.0
MT110097	56.3	56.1	53.9	58.5	56.2
MT110139	60.2	62.3	57.5	63.9	61.0
MT110141	59.1	60.0	57.8	62.9	59.9
GRAND MEAN	56.7	59.2	58.1	62.1	59.0
CV	2.13	1.02	1.08	0.75	
LSD	2.8	1.4	1.41	1.07	

	Height (cm)				
	Sidney	Huntley	Conrad	Bozeman	Average
PI596299	82.0	84.3	65.2	76.4	77.0
Purple Prairie	84.2	73.9	79.6	72.3	77.5
PPB-TS2	74.6	89.6	81.3	79.1	81.2
09WA-265.12	91.6	97.7	86.4	82.3	89.5
X05013-T1	86.2	92.7	79.6	77.6	84.0
X0626-T229	84.0	89.1	71.1	83.6	82.0
X07G30-T131	87.9	93.8	77.9	78.8	84.6
MT110008	85.5	91.6	80.4	70.5	82.0
MT110009	89.2	102.1	88.9	77.5	89.4
MT110016	83.4	92.9	79.6	80.4	84.1
MT110061	84.3	92.9	83.0	83.4	85.9
MT110065	85.7	97.9	82.1	80.4	86.5
MT110066	85.6	91.4	77.9	76.0	82.7
MT110097	81.9	94.2	80.4	81.7	84.6
MT110139	82.4	108.8	83.8	70.4	86.4
MT110141	86.4	99.1	83.8	78.2	86.9
GRAND MEAN	84.7	93.3	80.1	78.0	84.0
CV	4.15	2.98	5.18	8.83	
LSD	8.13	6.43	9.3	15.93	

Irrigated Hulless 2016 Statewide Means

	Heading (julian)			
	Sidney	Huntley	Bozeman	Average
PI596299	170	153	173	165
Purple Prairie	161	150	170	160
PPB-TS2	169	154	174	166
09WA-265.12	172	158	180	170
X05013-T1	171	157	180	169
X0626-T229	170	156	177	168
X07G30-T131	173	160	180	171
MT110008	172	157	179	169
MT110009	176	161	182	173
MT110016	172	157	179	169
MT110061	172	157	179	169
MT110065	176	161	181	173
MT110066	172	157	179	169
MT110097	169	152	172	164
MT110139	169	155	177	167
MT110141	170	157	177	168
GRAND MEAN	171	156	178	168
CV	0.27	0.6	0.72	
LSD	1.06	2.16	2.87	

	Maturity	Lodging (%)
	Bozeman	Conrad
PI596299	206	77
Purple Prairie	205	40
PPB-TS2	206	95
09WA-265.12	213	43
X05013-T1	211	20
X0626-T229	211	57
X07G30-T131	212	47
MT110008	212	40
MT110009	212	47
MT110016	212	77
MT110061	205	43
MT110065	208	30
MT110066	205	57
MT110097	207	50
MT110139	211	90
MT110141	205	87
GRAND MEAN	209	56.2
CV	0.57	32.18
LSD	2.65	40.57

Hulless Dryland Statewide 2016

	Yield (59lb bu/ac)						
	Sidney	Moccasin	Huntley	Havre	Conrad	Bozeman	Average
PI596299	65.0	48.8	26.0	77.2	64.5	59.9	56.9
Purple Prairie	38.7	18.8	15.9	24.9	24.3	29.7	25.4
PPB-TS2	29.5	24.1	10.1	33.8	41.2	31.1	28.3
09WA-265.12	61.5	56.4	20.3	76.4	70.1	72.5	59.5
X05013-T1	61.0	46.9	22.2	60.8	60.5	61.0	52.1
X0626-T229	64.5	52.7	17.4	61.0	70.2	64.4	55.0
X07G30-T131	61.0	42.6	25.7	58.9	61.7	61.6	51.9
MT110008	49.7	43.2	19.6	48.6	59.5	54.1	45.8
MT110009	56.0	44.4	8.4	42.0	57.3	60.0	44.7
MT110016	60.8	47.3	19.2	41.7	58.5	57.8	47.6
MT110061	57.3	45.1	17.7	53.0	72.2	49.4	49.1
MT110065	60.5	43.9	16.9	53.4	69.3	61.5	50.9
MT110066	55.9	49.2	20.5	57.0	63.2	59.2	50.8
MT110097	58.0	37.1	17.7	50.3	52.7	54.3	45.0
MT110139	52.3	35.2	10.1	60.5	61.5	63.8	47.2
MT110141	45.1	37.8	18.0	47.0	47.3	47.4	40.4
GRAND MEAN	54.8	42.1	17.9	52.9	58.4	55.5	46.9
CV	10.58	11.08	21.1	6.55	16.35	9.5	
LSD	13.34	10.47	8.71	8.02	21.43	11.83	

	Test Weight (lb/bu)						
	Sidney	Moccasin	Huntley	Havre	Conrad	Bozeman	Average
PI596299	50.1	52.8	48.3	49.4	49.5	53.4	50.6
Purple Prairie	63.3	61.8	63.5	59.2	61.9	56.0	60.9
PPB-TS2	62.7	64.2	60.3	58.1	63.4	65.0	62.3
09WA-265.12	58.7	62.1	58.1	58.2	60.5	63.4	60.2
X05013-T1	60.4	61.1	59.5	56.3	61.1	63.0	60.2
X0626-T229	58.4	59.3	55.0	52.6	57.3	59.9	57.1
X07G30-T131	61.0	62.3	58.4	53.9	60.4	62.9	59.8
MT110008	59.3	61.0	58.3	54.0	57.9	61.1	58.6
MT110009	59.8	61.9	55.5	54.4	58.8	61.9	58.7
MT110016	61.5	62.4	59.9	54.9	61.2	62.9	60.4
MT110061	59.6	61.3	58.5	55.8	58.1	61.8	59.2
MT110065	60.9	62.4	58.0	54.4	60.4	61.9	59.7
MT110066	59.6	61.5	58.1	55.5	60.1	62.3	59.5
MT110097	56.4	58.4	55.4	52.8	55.0	58.3	56.0
MT110139	62.0	63.0	60.1	58.8	62.4	64.2	61.7
MT110141	60.4	61.4	59.6	55.4	59.1	62.5	59.7
GRAND MEAN	59.6	61.1	57.9	55.2	59.2	61.3	59.0
CV	2.9	0.9	2.35	1.79	1.7	3.51	
LSD	4.26		3.14	2.29	2.32	4.82	

Hulless Dryland Statewide 2016

							Protein (%)
	Sidney	Moccasin	Huntley	Havre	Conrad	Bozeman	Average
PI596299	15.2	14.5	20.1	15.8	12.1	14.4	15.4
Purple Prairie	17.0	18.3	16.0	17.8	0.0	17.6	14.5
PPB-TS2	15.1	15.6	18.2	17.4	12.8	16.1	15.9
09WA-265.12	13.2	13.6	18.2	13.9	9.3	13.4	13.6
X05013-T1	14.2	15.9	18.5	16.6	10.3	13.7	14.9
X0626-T229	13.7	15.9	19.2	16.6	11.7	15.0	15.4
X07G30-T131	15.1	16.6	18.2	16.7	10.4	14.8	15.3
MT110008	14.0	14.3	18.9	15.9	10.5	14.4	14.7
MT110009	14.1	15.9	20.3	17.5	10.1	14.8	15.5
MT110016	13.7	14.9	18.3	16.8	11.8	14.4	15.0
MT110061	13.3	14.8	18.7	16.3	11.0	14.2	14.7
MT110065	13.6	14.0	18.4	16.0	10.8	14.4	14.5
MT110066	13.5	14.3	18.0	16.1	12.2	14.7	14.8
MT110097	14.2	16.0	19.0	16.1	13.4	14.9	15.6
MT110139	12.5	13.9	16.7	12.7	10.6	12.2	13.1
MT110141	14.5	15.8	17.7	17.9	13.6	16.3	16.0
GRAND MEAN	14.2	15.3	18.4	16.3	11.4	14.7	15.0
CV	4.9	7.71	3.55	2.62	4.65	5.45	
LSD	1.71		1.51	0.98		1.8	

							Height (cm)
	Sidney	Moccasin	Huntley	Havre	Conrad	Bozeman	Average
PI596299	61.8	63.0	69.8	26.4	61.8	54.6	56.2
Purple Prairie	62.4	56.7	72.2	26.5	59.3	55.2	55.4
PPB-TS2	66.2	70.7	75.0	26.5	60.1	63.1	60.3
09WA-265.12	71.7	62.8	69.1	28.6	67.7	63.3	60.5
X05013-T1	73.3	65.7	70.6	28.0	58.4	60.1	59.4
X0626-T229	65.2	62.8	69.5	27.6	60.9	59.7	57.6
X07G30-T131	74.0	64.7	77.6	27.3	68.6	62.2	62.4
MT110008	73.5	63.2	84.1	27.8	69.4	67.3	64.2
MT110009	70.2	68.2	74.9	29.1	67.7	68.2	63.1
MT110016	71.6	65.8	80.7	30.3	60.9	62.7	62.0
MT110061	64.2	60.3	70.4	27.0	66.1	59.5	57.9
MT110065	70.2	63.5	74.3	28.7	66.0	65.6	61.4
MT110066	65.8	61.2	75.7	27.3	62.7	58.4	58.5
MT110097	68.8	66.7	77.0	24.5	66.0	59.1	60.4
MT110139	77.2	66.7	82.0	30.6	66.0	69.0	65.3
MT110141	66.4	64.2	80.6	28.4	64.3	66.0	61.7
GRAND MEAN	68.9	64.1	75.2	27.8	64.1	62.1	60.4
CV	6.21	7.48	3.95	3.34	8.22	7.69	
LSD	10.53	10.76	6.67	2.08	11.83	10.73	

Hulless Dryland Statewide 2016

	Heading (julian)						
	Sidney	Moccasin	Huntley	Havre	Conrad	Bozeman	Average
PI596299	167	172	157	177	178	175	171
Purple Prairie	165	167	150	179	164	168	166
PPB-TS2	165	174	156	179	170	172	169
09WA-265.12	167	175	174	182	175	180	175
X05013-T1	167	175	169	184	170	179	174
X0626-T229	165	174	163	180	173	176	172
X07G30-T131	167	176	172	183	171	180	175
MT110008	168	176	159	181	173	177	172
MT110009	171	177	167	185	174	182	176
MT110016	168	177	166	181	172	177	173
MT110061	167	176	169	183	172	179	174
MT110065	169	176	176	185	177	181	177
MT110066	167	176	167	182	176	178	174
MT110097	166	167	156	177	171	171	168
MT110139	166	174	167	179	166	177	171
MT110141	166	176	164	180	169	176	172
GRAND MEAN	167	174	164	181	172	177	173
CV	0.51	0.38	2.18	0.44	3.09	0.6	
LSD	1.96	1.49	8.05	1.83	12.75	2.46	

	Maturity (julian)			Lodging (%)
	Moccasin	Bozeman	Average	Sidney
PI596299	207	202	204	10
Purple Prairie	208	201	205	0
PPB-TS2	207	201	204	65
09WA-265.12	209	209	209	0
X05013-T1	208	210	209	0
X0626-T229	208	207	208	10
X07G30-T131	210	209	210	0
MT110008	210	209	209	10
MT110009	210	209	209	0
MT110016	210	207	209	10
MT110061	206	204	205	10
MT110065	208	208	208	0
MT110066	208	204	206	0
MT110097	207	202	205	0
MT110139	208	207	208	0
MT110141	208	203	206	85
GRAND MEAN	208	206	207	12.5
CV	0.33	0.55		115.79
LSD	1.53	2.63		27.29

Pedigrees

Name	Pedigree	Alias	Name	Pedigree	Alias
Balster			MT090202	MT910189//Lk644/Eslick///MT910189////MT910189	09MT-78
Champion	Baronesse/Camas		MT090234	MT910189//Lk644/Eslick///MT910189////MT910189	09MT-92
Conlon		ND13299	MT090236	MT910189//Lk644/Eslick///MT910189////MT910189	09MT-94
Conrad	B1215//B1202/TR488	2B965057	MT100120	LK644/Eslick//Hockett///Hockett	
Copeland			MT100126	LK644/Eslick//Hockett///Hockett	
Craft	Klages / Baronesse	MT970116	MT103038-4	Hays/WCC100	
Eslick		MT960228	MT103038-6	Hays/WCC100	
Genesis			MT103089-3	Hays/WCC129	
Genie			MT103097-1	Hays/WCC129	
Geraldine		MT960101	MT103101-5	Hays/WCC129	
Growler			MT110008	Craft/Prowashonupana	
Harrington	Klages//Gazelle/Betzes///Centennial////Klages	SK76333	MT110009	Craft/Prowashonupana	
Haxby	Gallatin/Bellona//Clark/Lamont	MT950186	MT110016	Craft/Prowashonupana	
Haybet	Betzes/Strip Tease		MT110061	Haxby/Prowashonupana	
Hays			MT110065	Haxby/Prowashonupana	
Hockett	ND7293/Bearpaw	MT910189	MT110066	Haxby/Prowashonupana	
Lavina	Baronesse/Haybet		MT110097		
Merit 57	Manley//S974234/Summit		MT110139		
Metcalfe	Oxbow/Manley	TR232	MT110141		
Moravian115			MT124001	MT010158/MT070175	
Odyssey			MT124007	MT010158/MT070175	
Overature			MT124008	MT010158/MT070175	
PI596299	Prowashonupana		MT124015	MT010158/MT070175	
Pinnacle		PI643354	MT124016	MT010158/MT070175	
PPB-Ts2			MT124018	MT010158/MT070175	
Purple Prairie			MT124025	MT010158/MT070175	
Rawson			MT124026	MT010158/MT070175	
Scarlett			MT124027	MT010158/MT070175	
Sirish			MT124069	MT010158/MT070175	
Stellar			MT124071	MT010158/MT070175	
Stepford			MT124073	MT010158/MT070175	
Stockford	Baronesse/Canadian6row//Westford		MT124093		
Synergy			MT124112	Hockett/MT070174	
Tradition		6B952482	MT124113	Hockett/MT070174	
Vespa			MT124118	Hockett/MT070174	
Westminster			MT124127	Hockett/MT070174	
MT050051		06MT-26	MT124128	Hockett/MT070174	
MT050059		06MT-29	MT124134	Hockett/MT070174	
MT050169		06MT-57	MT124148	Craft/MT070174	
MT070043		07MT-21	MT124163		
MT070144			MT124164		
MT080087	Coors37/Metcalfe	08MT-15	MT124243		
MT080112	Haxby/MT020020	08MT-19	MT124361	MT020204/MT070175	
MT080192			MT124370	MT020204/MT070175	
MT080243	MT960101/MT981210	08MT-63	MT124380	MT020204/MT070175	
MT080256	MT970026/Eslick	08MT-68	MT124411		
MT080351	MT010105/MT970229	08MT93	MT124454	MT010158/MT070176	
MT080370	Haxby/MT970229	08MT-95	MT124457	MT010158/MT070176	
MT080087		08MT-15	MT124555	MT040073/MT040075	
MT080112		08MT-19	MT124582		
MT080192			MT124601	MT020204/MT070175	
MT080243		08MT-63	MT124645	MT010158/MT070176	
MT080256		08MT-68	MT124659		
MT080351		08MT-93	MT124663	Hockett/MT070174	
MT080370		08MT-95	MT124664		
MT090025	LK6-44/Conlon75-26	09MT-08	MT124673	Hockett/MT070174	
MT090169			MT124677	Hockett/MT070174	
MT090182	MT910189/MT910189/Lk644/Eslick BC3F3		MT124688		
MT090184			MT124716	MT010158/MT070175	
MT090190	MT910189//Lk644/Eslick///MT910189////MT910189		MT124728	MT010158/MT070175	
MT090193	MT910189//Lk644/Eslick///MT910189////MT910189				