



**2017 SPRING BARLEY
VARIETY PERFORMANCE**



**Montana Agricultural Experiment Station
Department of Plant Science and Plant Pathology
Department of Research Centers**

2016 Spring Barley Report

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MONTANA COUNTIES



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About this report:

This report features only **20 spring barley varieties** and two experimental lines, with data from advanced yield trials and MAES Off Station trials. Each trait-column was pulled from a different experiment, listed at the top of the table. As the entries in these trials vary each year, not all sites grew these 22 lines in the given experiments over the past 3 years. Priority has been given to the experiment containing the highest number of these 22 lines.

Yield is reported in 48lb/bu and adjusted to 13%moisture content. Test weight not adjusted for moisture. Protein numbers from NIR analysis. Analysis of variance with Fisher's LSD at p=0.05

Line	Program	End Use	Pedigree
Balster	ABI	Malting	2B99-2763 / 2B00-0719
Bill Coors 100	MC	Malting	
Champion	HSG	Feed	Baronesse/Camas
Claymore	HSG	Feed	Copeland/Xena
Conrad	ABI	Malting	B1215//B1202/TR488
Copeland	CDC	Malting	WM861-5 / TR118
Eslick	MSU	Feed	Stark/Baronesse
Genie	LCS	Malting	
Growler	ABI	Malting	2B05-0550 / 2B99-2763-10
Haxby	MSU	Feed	Gallatin / Bellona//Clark/ Lamont
Haybet	MSU	Forage	Betzes*7/CI6837
Hays	MSU	Forage	Haybet/Baronesse
Hockett	MSU	Malting	ND7293/Bearpaw
Lavina	MSU	Forage	Haybet/Baronesse
Merit 57	ABI	Malting	Manley//S974234/Summit
Metcalfe	AC	Malting	Oxbow/Manley
Moravian 165	MC	Malting	
Odyssey	LCS	Malting	Concerto/Quench
Oreana	HSG	Feed	Champion/YU501-312
Synergy	AAC	Malting	TR02267/Newdale
MT124027	MSU	Malting	MT920041/Harrington//LK644/Hockett*3
MT124128	MSU	Malting	LK644/Hockett*4

AAC & AC – Agriculture & Agri-Food Canada; ABI – Anheuser-Busch;

CDC – University of Saskatchewan Crop Development Center; HSG – Highland Specialty Grains;

LCS - Lima Grain; MC – Miller Coors; MSU – Montana State University

Barley Variety Descriptions

VARIETY	ORIGIN ¹	USE ²	YEAR RELEASED	HEIGHT	MATURITY	LODGING	RESISTANCE TO ³				QUALITY FACTORS	
							STEM RUST	LOOSE SMUT	NET BLOTCH	SPOT BLOTCH	TEST WEIGHT	GRAIN PROTEIN
Two-Row												
AAC SYNERGY	S	M/F	2015	M SHORT	M LATE	MR	MR	NA	MR	MR	NA	NA
ABI BALSTER	BARI	M/F	2015	M SHORT	MEDIUM	M	NA	NA	NA	NA	NA	NA
ABI GROWLER	BARI	M/F	2015	M SHORT	MEDIUM	MR	NA	NA	NA	NA	NA	NA
AC METCALFE*	CANADA	M	1997	MEDIUM	LATE	M	S	MR	MS	MS	MEDIUM	MEDIUM
CDC COPELAND*	CANADA	M	1999	TALL	M LATE	MS	MR	S	MS	VS	LOW	MEDIUM
CDC MEREDITH	CANADA	M	2008	MEDIUM	LATE	M	MR	NA	MS	S	NA	NA
CELEBRATION	BARI	M/F	2008	M SHORT	MEDIUM	MR	S		MS/S	MR/R	NA	NA
CHAMPION	WB	F	1997	MEDIUM	MEDIUM	MR	R	S	MR	NA	M LOW	MEDIUM
CONLON*	NDSU	F/M	1996	M SHORT	EARLY	MS	S	S	MR	MS	M HIGH	M LOW
CONRAD*	BARI	M	2007	M TALL	M LATE	MR	NA	S	NA	NA	M HIGH	M LOW
CRAFT*	MT	F/M		TALL	MEDIUM	MR	NA	S	S	NA	M HIGH	M HIGH
ESLICK	MT	F	2003	MEDIUM	M LATE	MS	S	NA	NA	MS	MEDIUM	M LOW
HARRINGTON*	CANADA	F/M	1981	M SHORT	LATE	S	S	S	MS	S	MEDIUM	M LOW
HAXBY	MT	F	2003	MEDIUM	MEDIUM	MS	S	S	S	MS	V HIGH	MEDIUM
HOCKETT*	MT	F/M	2008	MEDIUM	MEDIUM	MS	S	S	NA	NA	MEDIUM	M HIGH
LCS GENIE	LIME	M	NA	SHORT	MEDIUM	MR	NA	NA	NA	NA	NA	NA
LCS ODYSSEY	LIME	M/F	NA	SHORT	MEDIUM	M	NA	NA	NA	NA	NA	NA
ND GENESIS	NDSU	F/M	2015	MEDIUM	M LATE	MR	S	NA	MR	MR	HIGH	LOW
PINNACLE*	NDSU	F/M	2006	MEDIUM	M LATE	MR	S	S	MS	MR	HIGH	LOW
Six-Row												
CELEBRATION*	BARI	F/M	2008	M SHORT	MEDIUM	R	S	S	MS/S	MR/R	MEDIUM	MEDIUM
INNOVATION	BARI	M	2009	M SHORT	MEDIUM	MR	S	S	MS/S	MR/R	MEDIUM	MEDIUM
LACEY*	MN	F/M	1999	M SHORT	MEDIUM	MR	S	S	MS/S	MR/R	MEDIUM	MEDIUM
QUEST*	MN	M	2010	M SHORT	MEDIUM	MS	S	S	MR	MR/R	M LOW	MEDIUM
STELLAR-ND*	NDSU	F/M	2005	M SHORT	MEDIUM	R	S	S	MS/S	MR/R	MEDIUM	M LOW
TRADITION*	BARI	F/M	2003	M SHORT	MEDIUM	R	S	S	MS/S	MR/R	MEDIUM	M LOW
SPECIALTY												
HAYBET	MT	H	1989	TALL	MEDIUM	S	NA	S	NA	NA	LOW	MEDIUM
HAYS	MT	H	2003	M TALL	MEDIUM	MS	NA	NA	NA	NA	LOW	MEDIUM

¹Refers to developer: BARI = Busch Ag Resources; Inc.; CANADA represents developers from that country; Lime = Limagrain; MN = University of Minnesota; MT = Montana State University; NDSU = North Dakota State University; S = Syngenta; WB = WestBred.

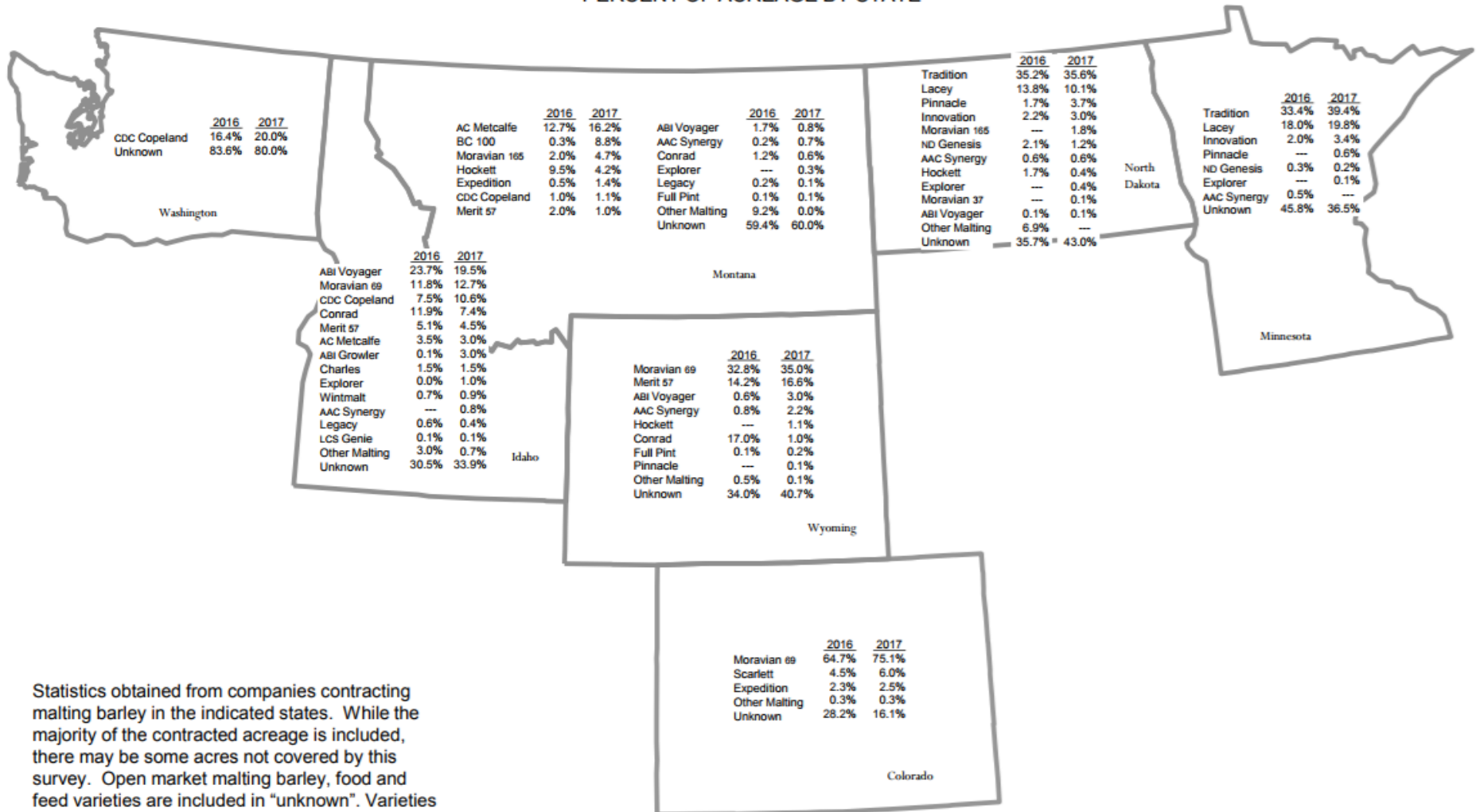
²F = Feed; M = Malt.

³MR = Moderately resistant; M = Intermediate; MS = Moderately susceptible; NA = Data not available; R = Resistant; S = Susceptible; VS = Very susceptible.

*Recommended as malting in Western U.S.

Barley Variety Survey - 2017

PERCENT OF ACREAGE BY STATE



Statistics obtained from companies contracting malting barley in the indicated states. While the majority of the contracted acreage is included, there may be some acres not covered by this survey. Open market malting barley, food and feed varieties are included in "unknown". Varieties with acreage equal to or less than 0.10% of a state's acreage are reported as "other malting".



Kalispell Irrigated

	Yield bu/ac				Protein %				Plump %			Test Weight (lb/bu)				Height (cm)		Heading (julian)	
	2017 Intra	2016 Off	2015 Intra	3 year Mean	2017 Intra	2016 Off	2015 Intra	3 year Mean	2016 Off	2015 Intra	2 year Mean	2017 Intra	2016 Off	2015 Intra	3 year Mean	2017 Intra	3 year Mean	2017 Intra	3 year Mean
Balster	80.5				14.9							48.5				52.0		180	
Bill Coors 100																			
Champion	79.2 63.2				9.7 14.3				98.1 87.3 93			55.1 45.5							
Claymore																			
Conrad	76.6 64.5				9.5 16.2				98.2 71.0 85			53.4 42.1							
Copeland	83.5	89.7			15.3	9.6			98.1			47.6	53.8			62.3	180		
Eslick	89.5				8.8				97.1			53.1							
Genie	73.4				15.7							47.0				46.3	184		
Growler	74.0				15.7							45.1				53.0		180	
Haxby	100.9 58.1				9.7 14.7				98.2 70.9 85			55.0 44.7							
Haybet	56.0 50.9				9.9 15.3				91.1 37.5 64			52.1 38.1							
Hays	83.6				9.9				90.8			51.1							
Hockett	88.2	111.0	70.1	89.8	14.0	9.9	14.1	12.7	98.6	93.9	96	50.8	54.9	44.7	50.2	53.3	62.8	177	174.1
Lavina	80.6 59.9				10.2 15.4				89.0 56.5 73			51.6 39.7							
Merit 57	105.7 64.5				9.3 15.1				97.1 82.8 90			53.1 41.2							
Metcalf	75.7	83.5	54.7	71.3	15.8	9.8	16.2	13.9	96.6	80.4	88	48.6	53.9	42.5	48.3	53.3	63.2	180	176.7
Moravian 165																			
Odyssey	78.3				13.4							46.2				49.7		181	
Oreana																			
Synergy	79.3	102.4			14.8	9.8			98.3			49.1	52.8		60.7		180		
MT124027	54.0				14.5				82.3			41.5							
MT124128	78.6		67.6		13.0		12.5		92.7			53.3		45.1		52.7		174	
Average	79.0	88.4	60.5		14.7	9.7	14.8		96.0	75.9		48.6	53.4	42.8		54.4		179.8	
C.V.	9.1	27.9	9.3		3.2	14.0	6.0		12.2	67.0		2.0	12.3	4.2		6.4		1.1	
LSD	11.8	52.3	8.9		0.7	2.9			25.5	273.7		1.6	14.2		5.7		3.2		

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Bozeman Irrigated

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Heading (Julian)		Maturity (Julian)	
	2017 Off	2016 Intra	2015 Intra	3 year Mean	2017 Off	2016 Intra	2015 Intra	3 year Mean	2017 Off	2016 Intra	2015 Intra	3 year Mean	2017 Off	2016 Intra	2015 Intra	3 year Mean	2017 Off	3 year Mean	2017 Off	3 year Mean	2017 Off	3 year Mean
Balster	59.2	122.3			15.5	11.0			75.4	96.7			49.8	54.9			55.3		202		228	
Bill Coors 100	56.1				15.7				91.7				53.3				52.3		203		229	
Champion	73.6	137.6	119.9	110.4	14.5	11.7	10.7	12.3	92.2	95.1	92.8	93.3	55.8	56.5	53.5	55.3	58.7	64.9	200	186.5	237	219.0
Claymore	67.3				15.1				89.0				53.5				62.0		200		235	
Conrad	82.2		100.9		16.1		10.9		90.6		91.6		54.5		52.8		58.0		201		236	
Copeland	70.9	134.6			14.5	11.3			93.0	95.8			54.6	56.0			61.7		201		235	
Eslick	62.6				14.8				57.4				52.4				47.3		202		230	
Genie	65.1	131.2			14.3	10.2			94.9	95.9			55.7	55.2			56.2		204		236	
Growler	56.7	119.7			15.8	10.9			80.5	95.1			50.0	54.6			58.3		199		229	
Haxby	50.7	124.9	110.2	95.3	14.7	11.2	11.3	12.4	63.9	95.5	89.1	82.8	52.8	57.4	53.1	54.4	53.2	60.6	198	184.9	227	212.9
Haybet	56.7		73.8		15.8		13.0		66.3		66.1		52.0		48.8		66.7		200		228	
Hays	80.8				14.8				89.2				53.9				60.8		201		230	
Hockett	58.0	123.3	110.2	97.2	14.4	11.7	11.5	12.6	65.7	93.6	93.0	84.1	50.7	56.2	53.6	53.5	60.2	65.3	201	187.5	228	215.0
Lavina	69.1		102.0		14.6		11.6		74.7		68.4		52.1		48.0		63.7		198		227	
Merit 57	68.2				15.5				82.1				53.1				58.7		200		234	
Metcalfe	54.2	119.5	97.9	90.5	15.1	11.8	11.5	12.8	82.2	93.1	91.2	88.8	52.5	55.9	52.4	53.6	57.3	62.9	200	185.9	229	215.0
Moravian 165	56.2				16.0				85.0				52.0				59.0		200		229	
Odyssey	68.8				13.7				96.6				54.3				55.5		203		236	
Oreana	80.3				13.7				88.3				55.5				52.8		203		236	
Synergy	50.6	120.2			14.5	11.0			78.6	95.5			50.6	54.8			57.3		200		228	
MT124027	74.3		124.5		13.8		10.9		85.7		89.3		53.0		52.7		57.0		200		235	
MT124128	62.6		100.7		13.0		10.3		89.3		95.7		54.1		53.8		54.7		198		228	
Average	64.8	125.9	105.8		14.7	11.1	11.2		81.1	95.5	86.9		53.5	55.7	52.1		57.9		200.6		231.6	
C.V.	16.5	4.7	6.3		3.3	11.6	9.2		4.6	1.5	2.5		1.4	0.8	1.4		5.8		0.7		0.6	
LSD	17.6	12.7	13.0		0.8	2.1	1.6		6.2	3.0	3.7		1.2	1.0	1.2		5.5		2.3		2.2	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Bozeman Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Heading (Julian)		Maturity (Julian)	
	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	3 year Mean	Intra 2017	3 year Mean	Intra 2017	3 year Mean
Balster	73.0	92.3		Mean	12.6	12.9			78.0	87.7			49.6	54.6			63.8		188		214	
Bill Coors 100																						
Champion		102.9	60.1			13.4	13.6			91.9	66.6			56.6	52.5							
Claymore																						
Conrad			41.4			16.6				55.4				50.0								
Copeland	81.0	90.3			13.5	13.9			78.2	90.6			50.3	54.6			71.8		188		216	
Eslick																						
Genie	79.5	90.7			12.2	12.8			59.5	94.3			51.9	55.8			60.3		187		215	
Growler	69.7	78.4			14.0	13.5			83.7	90.0			48.8	53.6			61.8		187		214	
Haxby		82.9	51.9		13.6	13.8			89.2	52.0			56.6	51.7								
Haybet			43.4			14.9				26.4				47.7								
Hays																						
Hockett	76.3	94.9	46.1	72.4	12.2	13.2	14.0	13.2	86.2	92.8	74.8	84.6	52.5	56.2	52.0	53.6	63.7	62.4	188	179.6	215	205.7
Lavina			47.6			14.1				36.0				46.5								
Merit 57																						
Metcalf	77.2	81.1	40.4	66.2	12.8	13.8	14.8	13.8	85.4	90.2	63.1	79.5	52.1	55.2	51.1	52.8	65.5	62.7	186	178.5	214	204.5
Moravian 165																						
Odyssey	84.4				13.3				87.7				50.1				60.8		188		221	
Oreana																						
Synergy	78.5	92.6			11.6	12.7			89.2	91.8			50.9	54.9			65.0		187		215	
MT124027			44.6			14.4				59.2				49.7								
MT124128	77.2		51.2		11.7	12.5			96.0	94.0			54.4	53.5			62.3		183		218	
Average	77.0	89.2	48.2		12.6	13.1	14.3		83.3	91.2	59.8		51.3	55.3	50.6		64.5		186.9		215.9	
C.V.	7.9	8.0	14.9		8.0	4.5	10.7		8.8	5.2	16.3		2.1	1.3	2.3		4.6		0.5		1.0	
LSD	9.4	11.3	15.9		1.6	1.0	2.6		12.1	7.8	24.6		1.7	1.1	2.6		4.8		1.5		3.6	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Corvallis Dryland

	Yield bu/ac			Protein %	Test Weight (lb/bu)			Height (cm)		
	Off 2017	Off 2015	2 year Mean	Off 2017	Off 2017	Off 2015	2 year Mean	Off 2017	Off 2015	2 year Mean
Balster	54.9			13.4	49.5			74.4		
Bill Coors 100	36.7			14.5	50.4			68.2		
Champion	43.8			13.9	51.0			70.1		
Claymore	47.9			13.7	50.3			70.8		
Conrad	56.9	68.4	62.7	14.1	50.0	48.3	49.2	66.0	46.6	56.3
Copeland	63.0	54.7	58.9	13.0	50.7	47.0	48.9	80.0	44.9	62.4
Eslick	51.4			12.8	50.3			59.8		
Genie	46.6			13.4	49.4			66.0		
Growler	44.1			14.5	48.1			69.8		
Haxby	47.5			14.2	52.4			66.2		
Haybet	49.4			15.0	46.7			70.8		
Hays	56.8			13.6	48.9			57.2		
Hockett	55.8			12.9	51.4			65.3		
Lavina	54.3			14.0	47.1			65.2		
Merit 57	42.2	38.3	40.3	13.4	48.8	49.4	49.1	71.7	48.3	60.0
Metcalfe	48.4	47.5	48.0	14.7	50.3	47.9	49.1	74.4	57.2	65.8
Moravian 165	43.5			14.2	50.1			70.1		
Odyssey	45.6			14.7	49.5			65.3		
Oreana	48.9			12.6	49.6			78.2		
Synergy	47.8	68.3	58.0	14.0	49.6	49.5	49.6	71.3	55.0	63.2
MT124027	50.0			13.3	48.4			63.3		
MT124128	46.9			12.5	51.8			62.7		
Average	50.2	55.4		13.6	50.1	48.4		69.5	50.4	
C.V.	15.5	18.2		5.3	1.8	2.3		9.1	12.9	
LSD	12.8	0.0		1.2	1.5	0.0		10.4	0.0	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Dillon Irrigated

	<u>Yield bu/ac</u>			<u>Protein %</u>	<u>Test Weight (lb/bu)</u>			<u>Height (cm)</u>		
	2016 Off	2015 Off	2 year Mean	2016 Off	2016 Off	2015 Off	2 year Mean	2016 Off	2015 Off	2 year Mean
Balster										
Bill Coors 100										
Champion	146.1			12.1	52.5			28.9		
Claymore										
Conrad	126.8	86.5	106.7	14.0	51.7	47.9	49.8	28.9	62.2	45.6
Copeland		67.4				47.5			54.0	
Eslick	125.9			12.7	52.1			26.8		
Genie										
Growler										
Haxby	131.9			12.0	53.3			27.7		
Haybet	107.2			14.6	45.5			33.5		
Hays	129.0			13.2	47.9			29.5		
Hockett	119.1			12.7	52.8			30.3		
Lavina	79.5			13.7	48.3			29.5		
Merit 57		92.0				46.1			58.4	
Metcalfe	130.8	71.9	101.4	12.6	52.8	48.2	50.5	30.1	63.5	46.8
Moravian 165										
Odyssey	138.2			12.0	49.4			24.0		
Oreana										
Synergy	125.7	96.4	111.1	12.3	52.1	49.6	50.9	30.0	68.6	49.3
MT124027										
MT124128										
Average	123.2	82.8		12.8	50.9	47.9		29.1	61.3	
C.V.	15.7	15.2		5.9	4.2	2.1		6.6	14.8	
LSD	42.2			1.6	4.6			4.3		

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Broadview Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)		Height (cm)	
	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	3 year Mean	Off 2017	3 year Mean
Balster	30.3				12.7				57.8				43.7		52.0	
Bill Coors 100	27.4				13.0				64.0				43.1		49.0	
Champion	34.4	19.7	54.4	36.2	12.6	8.8	12.2	11.2	34.3	76.2	65.2	58.6	47.8	50.9	56.3	54.4
Claymore	25.9				13.3				26.6				44.5		52.3	
Conrad	26.7	13.8	42.1	27.5	12.4	9.9	13.9	12.0	67.6	87.9	71.5	75.7	47.1	48.9	55.7	54.8
Copeland	32.7	19.5			14.2	8.7			50.9	91.2			44.6		62.0	
Eslick	26.2	17.3			12.5	8.5			8.8	58.2			45.9		45.7	
Genie	25.8				12.7				69.6				47.6		36.3	
Growler	24.8				13.3				63.4				42.3		53.0	
Haxby		15.7	48.3			9.1	11.8			91.1	61.0					
Haybet			35.0				12.7				32.1					
Hays																
Hockett	29.1	15.9	48.0	31.0	12.3	8.8	11.7	10.9	74.1	92.9	75.0	80.6	48.0	50.7	56.3	54.6
Lavina		11.2	45.9			9.4	12.8			64.8	37.4					
Merit 57	22.6				12.5				47.4				41.7		54.3	
Metcalfe	31.7	17.3	45.0	31.4	13.9	8.9	12.7	11.8	52.0	86.9	60.8	66.5	45.6	48.3	61.0	56.2
Moravian 165	28.6		45.4		13.1		13.8		52.7		67.5		45.0		61.3	
Odyssey	30.0				12.6				65.2				44.0		52.7	
Oreana	27.8				11.5				59.5				47.8		44.3	
Synergy	30.6				12.5				60.7				44.6		59.3	
MT124027	22.9		42.9		11.1		12.4		61.4		64.6		46.9		55.0	
MT124128	33.8				11.6				91.4				50.4		54.7	
Average	27.8	16.4	45.2		12.6	9.0	12.7		55.0	81.9	59.5		46.3		54.1	
C.V.	13.4	16.2	9.0		8.6	4.0	8.0		13.2	3.2	17.0		3.2		12.3	
LSD	6.2	5.8	0.0		1.8	0.8	0.0		12.0	6.1	0.0		2.4		11.0	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Huntley Irrigated

	<u>Yield bu/ac</u>				<u>Protein %</u>				<u>Plump %</u>				<u>Test Weight (lb/bu)</u>				<u>Height (cm)</u>		<u>Heading (julian)</u>	
	2017	2016	2015	3 year	2017	2016	2015	3 year	2017	2016	2015	3 year	2017	2016	2015	3 year	2017	3 year	2017	3 year
	Intra	Intra	Intra	Mean	Intra	Intra	Intra	Mean	Intra	Intra	Intra	Mean	Intra	Intra	Intra	Mean	Intra	Mean	Intra	Mean
Balster	122.5	106.6			9.8	11.0			97.4	92.9			53.2	50.6			91.7		190	
Bill Coors 100																				
Champion		95.0	110.4			11.0	11.1			91.7	96.1			53.5	53.3					
Claymore																				
Conrad			102.4				11.4				96.3				51.6					
Copeland	122.3	100.4			10.3	10.8			97.9	95.8			53.7	53.1			100.7		181	
Eslick																				
Genie	133.5	118.7			9.4	9.9			93.9	93.0			54.6	52.0			89.9		186	
Growler	125.2	116.3			10.2	10.4			96.7	92.9			52.7	50.5			90.9		185	
Haxby		78.2	110.3			11.8	10.6			94.3	96.5			54.4	54.4					
Haybet			75.6				13.9				55.2			46.7						
Hays																				
Hockett	127.5	80.2	105.0	104.2	10.6	11.8	11.2	11.2	97.8	92.5	97.9	96.1	54.5	52.3	53.7	53.5	95.9	93.7	174	164.5
Lavina			103.0				11.7				77.8			47.7						
Merit 57			107.5				12.4				91.4			50.5						
Metcalf	105.5	83.7	102.8	97.3	10.6	11.4	10.8	10.9	98.0	94.1	96.1	96.1	54.4	53.2	52.7	53.4	95.7	99.7	183	167.3
Moravian 165																				
Odyssey	127.0				9.3				97.9				52.9				81.9		192	
Oreana																				
Synergy	129.9	87.2			11.4	11.2			98.1	96.4			53.8	51.6			97.5		179	
MT124027			106.3				9.4				97.5			51.9						
MT124128	103.3		89.6		10.4		11.6		98.0		98.8		53.1		53.6		89.3		168	
Average	121.8	96.2	101.5		10.2	10.9	11.2		97.3	93.6	90.8		53.7	52.3	51.8		93.0		182.0	
C.V.	6.4	4.7	6.7		4.6	3.3	4.8		1.0	1.4	1.8		0.7	0.9	0.9		3.6		1.8	
LSD	12.3	9.8	13.0		0.8	0.8	0.8		1.5	2.9	2.8		0.6	1.0	0.8		5.4		5.3	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Huntley Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Heading (Julian)	
	Off 2017	Intra 2016	Intra 2015	3 year Mean	Off 2017	Intra 2016	Intra 2015	3 year Mean	Off 2017	Intra 2016	Intra 2015	3 year Mean	Off 2017	Intra 2016	Intra 2015	3 year Mean	Off 2017	3 year Mean	Off 2017	3 year Mean
Balster	118.0	97.2			12.6	14.8			94.8	91.9			51.9	50.7			102.1		178	
Bill Coors 100	105.6				13.6				96.8				50.1				90.3		180	
Champion	118.0	94.7	90.3	101.0	12.3	15.4	11.1	12.9	97.1	91.2	96.0	94.8	54.3	52.9	53.9	53.7	104.1	96.0	169	162.6
Claymore	121.4				13.0				96.8				52.5				100.2		178	
Conrad	112.4		87.0		13.5		12.9		96.2		96.0		52.2		52.1		99.9		182	
Copeland	111.6	96.8			13.3	15.2			95.7	94.4			51.9	51.5			105.2		183	
Eslick	117.0				12.8				92.7				53.4				93.0		184	
Genie	113.9	101.2			12.6	14.1			96.5	87.4			51.3	52.2			94.0		179	
Growler	111.4	102.5			14.2	13.9			97.0	93.7			50.6	49.8			103.6		170	
Haxby	118.6	72.9	88.4	93.3	12.6	15.9	9.5	12.6	95.5	91.0	95.3	93.9	55.2	53.4	53.2	53.9	105.3	97.6	168	162.1
Haybet	70.6		62.7		14.1		11.8				74.8		49.1		49.7		103.4		167	
Hays	112.0				13.2								50.6				93.6		179	
Hockett	107.7	72.4	88.6	89.5	12.5	16.0	10.6	13.0	96.3	91.6	98.3	95.4	54.0	51.9	53.9	53.3	107.3	96.6	164	160.8
Lavina	110.3		87.8		12.9		11.8				78.5		49.4		49.2		99.7		167	
Merit 57	117.9		78.5		13.4		11.1		91.3		97.2		51.1		51.3		104.5		163	
Metcalfe	115.4	78.8	93.7	95.9	13.2	16.6	11.9	13.9	95.2	91.0	96.7	94.3	53.0	51.8	52.8	52.5	107.5	99.4	169	162.8
Moravian 165	115.2				13.3				94.1				52.7				115.3		166	
Odyssey	114.6				12.4				97.7				49.8				92.0		185	
Oreana	119.6				12.9				96.3				52.1				88.1		180	
Synergy	114.2	86.9			12.3	15.6			97.1	95.7			53.0	51.7			102.8		176	
MT124027	120.7		86.6		12.3		10.7		92.1		94.1		52.5		51.3		101.2		171	
MT124128	101.3		54.2		11.3		10.5		98.0		98.7		54.9		52.9		106.9		161	
Average	112.3	89.2	83.8		12.9	15.3	11.2		95.5	91.9	86.9		52.5	51.7	52.1		101.5		173.3	
C.V.	4.9	4.2	8.9		1.8	2.9	6.5		2.8	6.8	2.6		0.8	1.1	1.9		2.3		4.5	
LSD	9.0	6.1	12.0		0.4	0.9	1.2		1.8	8.4	3.8		0.7	1.2	1.6		3.8		12.8	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Fromberg Irrigated

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Lodging %	
	2017 Off	2016 Off	2015 Off	3 year Mean	2017 Off	2016 Off	2015 Off	3 year Mean	2017 Off	2016 Off	2015 Off	3 year Mean	2017 Off	2016 Off	2015 Off	3 year Mean	2017 Off	3 year Mean	2017 Off	3 year Mean
Balster	142.2				13.7				84.1				49.1				92.3		50	
Bill Coors 100	164.0				12.1				93.6				52.1				82.7		20	
Champion	159.1	130.8	129.1	139.7	13.5	12.8	11.7	12.7	94.4	95.2	90.9	93.5	54.1	52.4	50.8	52.4	103.7	105.4	20	43
Claymore	139.2				14.1				76.8				49.9				104.3		67	
Conrad	141.1	120.5	131.9	131.2	13.8	13.7	11.5	13.0	91.4	91.5	89.5	90.8	52.1	51.5	49.8	51.1	95.7	100.3	47	48
Copeland	129.6	122.1			14.5	13.0			81.0	91.1			49.9	51.0			102.7		60	
Eslick	149.2	141.5			13.3	11.5			75.7	90.5			51.6	52.9			90.7		37	
Genie	150.0				12.4				86.0				51.1				88.3		30	
Growler	134.4				14.4				79.7				48.4				94.7		53	
Haxby	144.3	114.8	112.5	123.9	13.8	12.7	11.9	12.8	92.3	95.3	91.6	93.1	53.8	53.4	51.5	52.9	104.0	105.1	47	58
Haybet	106.2		74.7		15.4		15.0		52.4		56.3		46.6		43.6		108.7		53	
Hays	149.8				13.3				74.2				48.9				97.3		30	
Hockett	138.5	113.3	127.0	126.3	14.1	12.4	11.2	12.5	84.7	92.1	86.9	87.9	51.3	51.8	49.7	50.9	89.0	96.2	60	60
Lavina	140.0	93.0	107.7	113.6	13.9	14.0	11.8	13.2	70.3	64.1	73.8	69.4	48.1	45.1	45.0	46.1	108.7	108.8	30	58
Merit 57	134.5				14.2				76.2				48.4				95.3		67	
Metcalfe	127.4	106.7	126.7	120.3	14.2	12.7	10.8	12.6	81.2	93.3	92.2	88.9	50.9	51.9	50.5	51.1	96.0	103.3	57	52
Moravian 165	136.4		125.2		14.2		11.7		89.0		88.9		52.0		47.1		106.7		40	
Odyssey	178.6				11.1				95.2				50.5				85.7		10	
Oreana	168.6				12.2				83.0				51.6				90.7		50	
Synergy	137.4				13.4				87.2				51.0				104.3		57	
MT124027	157.3		130.7		13.6		10.2		84.8		92.0		50.2		49.8		95.3		63	
MT124128	139.1				12.1				94.9				53.1				87.0		37	
Average	142.1	118.5	118.4		13.5	12.7	11.8		82.8	89.4	84.7		50.9	51.3	48.6		97.2		45.3	
C.V.	7.2	9.8	12.9		4.4	6.4	9.6		5.6	6.4	10.6		1.7	2.6	5.7		4.3		35.7	
LSD	16.9	25.0			1.0	1.8			7.6	12.6			1.4	2.9			6.8		26.5	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Hysham Irrigated

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Lodging %	
	2017 Off	2016 Off	2015 Off	3 year Mean	2017 Off	2016 Off	2015 Off	3 year Mean	2017 Off	2016 Off	2015 Off	3 year Mean	2017 Off	2016 Off	2015 Off	3 year Mean	2017 Off	3 year Mean	2016 Off	3 year Mean
Balster	174.0				11.6				94.8				53.5				103.0			
Bill Coors 100	160.0				11.8				96.8				54.1				85.3			
Champion	169.6	123.8	127.1	140.2	11.2	12.5	9.9	11.2	97.1	89.8	95.3	94.1	55.2	52.4	53.0	53.5	97.3	101.6	37	
Claymore	182.3				10.3				96.8				54.4				105.3			
Conrad	169.4	118.5	125.5	137.8	11.8	13.7	10.5	12.0	96.2	96.9	96.8	96.6	54.0	52.5	52.8	53.1	89.0	92.6	27	
Copeland	169.9	100.1			11.3	13.3			95.7	89.5			54.7	51.2			106.0		47	
Eslick	176.4	108.7			10.8	13.0			92.7	86.1			54.5	52.3			96.7		70	
Genie	170.1				10.7				96.5				54.8				86.0			
Growler	174.4				11.3				97.0				53.8				101.0			
Haxby	136.2	102.1	98.7	112.3	11.4	13.3	9.3	11.3	95.5	90.6	95.8	94.0	56.1	52.6	53.7	54.1	103.0	105.2	57	
Haybet																				
Hays																				
Hockett	168.8	110.8	114.8	131.4	11.4	13.3	9.5	11.4	96.3	84.3	98.0	92.9	55.0	51.1	54.4	53.5	98.7	99.4	57	
Lavina																				
Merit 57	168.6				11.4				91.3				53.9				103.7			
Metcalfe	170.9	102.0	108.8	127.2	10.8	14.4	9.5	11.6	95.2	83.1	95.4	91.2	53.9	51.3	53.7	53.0	95.7	100.0	70	
Moravian 165	153.0		109.4		11.6		9.8		94.1		94.0		54.2		52.7		110.7			
Odyssey	188.6				10.6				97.7				53.7				87.7			
Oreana	184.7				10.2				96.3				54.3				79.7			
Synergy	181.4				11.1				97.1				53.9				108.3			
MT124027	178.6		120.1		10.6		8.7		92.1		96.5		54.5		53.2		92.3			
MT124128	170.6				10.2				98.0				54.6				88.7			
Average	169.2	110.6	114.9		11.0	13.2	9.6		95.5	89.2	96.0		54.8	52.0	53.4		98.6		47.5	
C.V.	6.8	10.5	10.9		6.2	5.1	5.3		1.8	4.0	2.6		1.0	1.9	1.9		7.5		51.4	
LSD	19.0	26.4			1.1	1.4			2.8	8.1			0.9	2.1			12.1		26.7	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Denton Dryland

	Yield bu/ac			Protein %			Plump %			Test Weight (lb/bu)			Height (cm)			Heading (Julian)
	Off 2017	Off 2015	2 year Mean	Off 2017	Off 2015	2 year Mean	Off 2017	Off 2015	2 year Mean	Off 2017	Off 2015	2 year Mean	Off 2017	Off 2015	2 year Mean	Off 2017
Balster	27.8			18.8			12.3			48.2			60.1			182
Bill Coors 100	19.6			20.3			11.9			45.9			55.0			187
Champion	32.9	42.0	37.5	17.4	15.5	16.5	3.6	67.5	35.5	49.9	53.2	51.5	60.1	64.7	62.4	183
Claymore	30.0			17.6			12.1			48.8			58.4			186
Conrad	30.4	35.3	32.8	19.1	17.1	18.1	15.2	76.0	45.6	49.3	52.7	51.0	57.6	67.0	62.3	189
Copeland	19.5			19.7			18.0			47.2			58.4			182
Eslick	26.9			18.7			0.7			46.2			53.3			192
Genie	25.3			18.8			6.3			48.5			57.6			186
Growler	27.4			19.8			14.9			48.2			57.6			188
Haxby	32.2	44.0	38.1	17.2	15.2	16.2	3.5	69.0	36.3	50.5	53.9	52.2	62.7	64.0	63.3	179
Haybet	29.4	38.1	33.8	19.5	16.5	18.0	0.4	14.6		48.9	47.4	48.1	64.4	67.3	65.8	179
Hays	26.3			18.8			5.1			46.2			57.6			188
Hockett	30.9	41.5	36.2	17.2	16.0	16.6	15.9	90.9	53.4	50.4	54.9	52.7	62.6	63.7	63.2	182
Lavina	27.8	38.4	33.1	19.2	15.8	17.5	1.0	23.4		46.0	46.7	46.4	60.9	65.7	63.3	182
Merit 57	23.1			19.3			11.8			51.6			57.6			186
Metcalfe	32.0	37.7	34.9	18.7	17.4	18.1	10.6	73.4	42.0	49.6	52.2	50.9	67.7	66.7	67.2	179
Moravian 165	25.9			19.5			9.9			47.2			61.0			180
Odyssey	30.4			18.1			17.5			48.6			61.8			192
Oreana	26.9			18.7			9.3			48.9			62.7			190
Synergy	28.8			17.4			15.8			48.2			62.7			181
MT124027	28.0	40.1	34.1	17.6	14.9	16.3	10.6	80.5	45.5	47.2	52.1	49.6	61.8	67.0	64.4	186
MT124128	34.1			15.9			34.6			51.6			59.3			177
Average	28.1	39.7		18.4	16.1		10.7	61.9		48.9	51.6		60.4	65.8		184.0
C.V.	13.3	6.7		3.9	8.1		31.7	29.6		1.8	4.3		6.9	4.3		1.9
LSD	6.1	0.0		1.2	0.0		5.6	0.0		1.4	0.0		6.9	0.0		5.7

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Moccasin Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Heading (Julian)	
	Off 2017	Intra 2016	Intra 2015	3 year Mean	Off 2017	Intra 2016	Intra 2015	3 year Mean	Off 2017	Intra 2016	Intra 2015	3 year Mean	Off 2017	Intra 2016	Intra 2015	3 year Mean	Off 2017	3 year Mean	Off 2017	Intra 2016
Balster	40.4	63.2			13.5	11.8			20.2	93.0			49.0	53.4			44.9		182	207
Bill Coors 100	46.5				14.1				55.6				52.2				46.6		187	
Champion	48.3	82.7	61.8	64.3	12.4	11.7	9.1	11.1	14.4	92.4	62.8	56.5	52.6	56.3	49.2	52.7	46.6	131.5	183	208
Claymore	47.7				13.7				12.1				49.6				44.9		186	
Conrad	47.3		46.0		13.7		9.7		39.6		84.1		51.7		47.7		45.7		189	
Copeland	48.9	69.7			14.6	12.3			33.0	93.1			49.9	53.7			39.8		182	207
Eslick	49.9				13.5				5.5				50.6				46.6		192	
Genie	47.9	74.7			13.0	11.0			37.3	92.0			53.0	56.5			45.7		186	209
Growler	35.4	65.0			15.0	12.3			26.4	90.0			48.9	53.6			44.9		188	207
Haxby	43.3	64.1	56.2	54.5	12.5	12.2	10.1	11.6	9.5	87.8	37.5	44.9	52.9	55.2	50.0	52.7	42.3	130.2	179	205
Haybet	42.6		43.8		14.6		11.7		2.7		57.0		49.6		44.1		47.4		179	
Hays	42.7				14.1				15.2				48.5				44.0		188	
Hockett	44.0	68.5	50.6	54.4	12.5	12.3	9.7	11.5	43.2	96.0	88.8	76.0	53.1	54.3	49.4	52.3	46.6	132.4	182	207
Lavina	45.9		53.6		12.5		9.7		8.4		37.1		48.5		43.6		46.6		182	
Merit 57	36.4				13.9				28.0				51.6				45.7		186	
Metcalfe	46.6	62.2	49.7	52.8	15.0	13.5	9.9	12.8	25.2	93.9	78.8	66.0	50.3	55.2	51.6	52.4	42.3	131.0	179	208
Moravian 165	46.2				14.0				35.6				50.8				44.0		180	
Odyssey	43.3				14.6				27.6				49.7				44.9		128	
Oreana	43.2				13.5				40.6				51.9				45.7		190	
Synergy	43.7	68.9			13.4	11.7			27.0	96.5			49.1	54.2			47.4		181	208
MT124027	43.1		54.0		13.1		9.1		21.2		77.8		49.2		49.4		41.5		186	
MT124128	45.7		51.7		11.4		10.1		75.5		91.7		55.2		53.2		45.7		177	
Average	43.9	67.9	51.6		13.6	12.0	9.8		26.9	93.1	69.8		51.2	54.8	48.8		45.0		181.4	207.7
C.V.	15.9	9.6	7.8		5.2	5.0	8.8		43.2	5.1	17.9		2.7	3.4	3.8		6.1		12.5	0.6
LSD	11.4	13.5	6.5		1.2				19.1				2.3	5.0	4.6		4.5		37.1	2.6

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Geraldine Dryland

	Yield bu/ac			Protein %			Plump %			Test Weight (lb/bu)			Height (cm)			Heading (Julian)
	Off 2016	Off 2015	2 year Mean	Off 2016	Off 2015	2 year Mean	Off 2016	Off 2015	2 year Mean	Off 2016	Off 2015	2 year Mean	Off 2016	Off 2015	2 year Mean	2 year Mean
Balster																
Bill Coors 100																
Champion	87.7	59.5	73.6	10.1	12.3	11.2	91.4	81.4	86.4	57.4	54.5	55.9	54.3	62.3	58.3	175.0
Claymore																
Conrad	86.9	54.9	70.9	11.9	14.6	13.3	94.2	79.9	87.1	55.0	52.7	53.8	55.7	61.3	58.5	175.8
Copeland																
Eslick	106.0			11.2			88.7			55.6			47.7			
Genie																
Growler																
Haxby	79.3	61.7	70.5	10.9	12.3	11.6	91.7	83.2	87.5	57.1	53.8	55.4	54.0	62.7	58.4	174.5
Haybet	58.1	46.9	52.5	12.1	14.9	13.5	69.7	16.5	43.1	54.7	50.6	52.6	60.7	67.3	64.0	176.4
Hays	89.1			10.9			87.2			54.1			58.0			
Hockett	84.1	51.6	67.8	10.5	12.7	11.6	95.1	84.7	89.9	58.3	55.2	56.7	49.7	61.7	55.7	175.7
Lavina	87.0	50.5	68.8	10.9	14.3	12.6	76.7	35.0	55.9	53.4	47.7	50.5	59.7	60.0	59.8	176.2
Merit 57																
Metcalfe	79.1	54.8	67.0	11.7	13.9	12.8	91.9	69.3	80.6	56.1	51.5	53.8	55.3	65.7	60.5	175.3
Moravian 165																
Odyssey																
Oreana																
Synergy																
MT124027		57.2			12.1			82.7			52.1			61.0		
MT124128																
Average	84.0	54.6		11.0	13.4		87.8	66.6		55.7	52.2		55.6	62.8		
C.V.	8.1	9.2		6.1	7.5		6.1	26.2		1.2	3.5		6.3	6.9		
LSD	14.2	0.0		0.0	0.0		0.0	0.0		1.9	0.0		7.7	0.0		

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Highwood Dryland (Acidic Soils)

	Yield bu/ac			Protein %			Plump %			Test Weight (lb/bu)			Height (cm)			Heading (Julian)		
	Off 2017	Off 2016	2 year Mean	Off 2017	Off 2016	2 year Mean	Off 2017	Off 2016	2 year Mean	Off 2017	Off 2016	2 year Mean	Off 2017	Off 2016	2 year Mean	Off 2017	Off 2016	2 year Mean
Balster	26.9			16.2			43.8			55.3			48.3			182		
Bill Coors 100	56.4			16.4			72.0			53.8			49.1			187		
Champion	41.7	38.5	40.1	13.9	8.4	11.2	70.0	89.0	79.5	54.2	55.5	54.9	47.4	38.0	42.7	183	175	179.0
Claymore	34.6			16.6			73.8			53.5			47.4			186		
Conrad	32.0	36.3	34.1	17.0	10.2	13.6	81.8	86.2	84.0	54.2	54.8	54.5	47.4	35.7	41.5	189	176	182.5
Copeland	46.9			16.5			69.7			53.9			50.8			182		
Eslick	29.8			16.9			86.1			55.0			44.9			192		
Genie	31.7			17.3			76.6			53.3			42.3			186		
Growler	29.0			17.4			76.0			54.6			45.7			188		
Haxby	36.1	38.6	37.4	16.1	10.1	13.1	77.1	90.1	83.6	53.8	56.0	54.9	46.6	36.5	41.6	179	174	176.5
Haybet	32.0	32.3	32.1	17.2	11.8	14.5	68.9	69.1	69.0	53.7	54.2	53.9	44.0	47.0	45.5	179	175	177.2
Hays	64.4	40.9	52.6	16.0	9.9	13.0	60.7	78.7	69.7	55.4	54.2	54.8	54.2	39.3	46.8	188	176	182.0
Hockett	24.6	42.1	33.3	18.1	10.6	14.3	71.4	94.0	82.7	53.7	56.3	55.0	45.7	43.7	44.7	182	175	178.7
Lavina	35.2	37.6	36.4	16.5	9.7	13.1	67.6	70.0	68.8	53.7	54.7	54.2	48.2	41.3	44.8	182	175	178.3
Merit 57	44.5	42.9	43.7	16.6	8.9	12.8	85.8	86.3	86.1	54.4	55.8	55.1	47.4	45.5	46.5	186	176	180.8
Metcalfe	47.6	31.0	39.3	16.2	9.5	12.8	85.5	90.3	87.9	55.2	55.7	55.4	47.4	42.7	45.0	179	176	177.5
Moravian 165	44.2			16.3			72.5			54.3			46.6			180		
Odyssey	22.2			17.3			61.9			57.8			50.0			192		
Oreana	35.4			16.0			78.0			53.4			45.7			190		
Synergy	44.6			15.8			68.4			54.5			44.0			181		
MT124027													51.6			186		
MT124128	22.4			17.4			77.8			54.5			43.2			177		
Average	36.6	37.0		16.6	10.1		73.1	84.2		54.4	55.1		47.0	41.5		184.0	175.4	
C.V.	60.7	16.6		6.6	12.5		13.1	8.1		2.8	2.0		11.1	9.4		1.9	0.4	
LSD	48.7	12.9		2.4	0.0		21.0	0.0		3.4	3.2		8.5	8.7		5.7	1.6	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Choteau Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Lodging (%)	
	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	3 year Mean	Off 2016	2 year Mean
Balster	75.4				14.3				63.4				44.8				61.0			
Bill Coors 100	87.1				14.5				74.1				45.9				53.3			
Champion	91.0	89.4	89.8	90.1	13.7	13.1	14.3	13.7	64.6	90.0	93.6	82.7	50.5	50.4	52.8	51.2	66.0	66.3	5	8
Claymore																				
Conrad		71.6	76.2			15.1	16.6			82.9	91.6			47.0	50.9				12	
Copeland	81.5				13.7				70.6				47.1				65.2			
Eslick																				
Genie	83.6				13.1				71.8				48.4				56.7			
Growler	70.3				15.9				55.4				41.8				60.1			
Haxby	83.2	79.3	93.4	85.3	13.7	13.7	14.3	13.9	54.7	88.7	84.6	76.0	50.4	50.2	53.0	51.2	64.4	65.2	10	12
Haybet		62.6	83.3			15.4	15.8			35.7	62.6			45.2	47.6				18	
Hays		83.8				14.7				71.6				46.6					8	
Hockett	80.9	75.5	80.7	79.0	13.0	13.4	15.4	13.9	72.0	80.4	93.2	81.9	47.6	48.6	51.7	49.3	58.4	64.3	18	17
Lavina	81.1	83.6	96.7	87.1	14.8	14.2	15.5	14.8	23.0	70.0	68.0	53.7	41.8	46.5	47.5	45.3	67.7	66.0	5	8
Merit 57																				
Metcalfe	74.5	77.1	78.7	76.7	13.9	14.3	15.5	14.6	62.4	86.9	92.7	80.7	47.2	48.6	50.9	48.9	61.8	62.9	12	11
Moravian 165	80.6				13.7				78.0				48.1				66.0			
Odyssey	83.6				13.6				76.4				44.0				55.9			
Oreana	94.3				13.7				61.6				48.4				55.9			
Synergy	74.7				12.7				73.2				46.9				60.1			
MT124027			79.6				15.1				90.1				50.9					
MT124128	84.2				12.2				84.4				51.0				61.0			
Average	81.7	77.5	84.8		13.7	14.0	15.3		67.0	77.0	84.5		47.1	47.9	50.7		61.1		10.2	
C.V.	7.6	6.7	9.8		6.3	3.5	2.8		16.1	5.1	4.3		3.3	2.2	0.9		5.7		72.9	
LSD	10.4	8.6	13.6		1.4	0.8	0.7		18.0	6.9	6.3		2.6	1.8	0.8		5.8		10.3	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Conrad Irrigated

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Heading (Julian)		Lodging %	
	2017 Off	2016 Intra	2015 Intra	3 year Mean	2017 Off	2016 Intra	2015 Intra	3 year Mean	2017 Off	2016 Intra	2015 Intra	3 year Mean	2017 Off	2016 Intra	2015 Intra	3 year Mean	2017 Off	3 year Mean	2017 Off	2 year Mean	2017 Off	2 year Mean
Balster	111.0	120.3			8.6	10.2			95.2	98.1			52.0	51.8			66.0		188		10	15
Bill Coors 100	106.5				9.4				97.8				52.7				57.6		188		12	
Champion	115.8	99.8	135.8	117.1	8.9	9.6	10.2	9.6	95.7	96.9	97.3	96.6	55.4	52.6	53.5	53.8	70.3	77.5	186	179.8	8	
Claymore	116.9				8.3				93.5				53.9				72.8		187		10	
Conrad	115.6		124.9		9.1		12.9		97.7		95.3		53.6		52.0		64.3		188	182.3	13	
Copeland	107.0	117.2			8.9	10.1			97.3	98.0			54.1	52.7			76.2		188		20	30
Eslick	118.9				9.0				93.3				54.9				68.6		187		43	
Genie	120.3	132.0			9.2	9.5			98.7	98.1			54.8	53.8			60.1		188		13	22
Growler	106.9	124.5			8.8	10.2			94.6	97.2			52.6	51.7			66.0		188		7	24
Haxby	116.8	107.6	124.3	116.3	10.0	11.1	11.1	10.7	97.8	98.3	94.3	96.8	56.0	52.7	53.7	54.1	69.4	78.1	184	178.5	17	28
Haybet	72.6		92.1		9.9		11.9		73.0		63.8		49.8		46.3		79.6		186	179.4	73	72
Hays	98.9				8.9				91.7				51.1				71.1		187		17	
Hockett	105.7	120.5	110.6	112.3	9.0	10.2	12.7	10.6	95.0	98.5	95.0	96.1	53.5	53.5	53.1	53.4	63.5	74.3	187	179.7	73	72
Lavina	105.3		98.4		9.0		11.7		86.6		79.8		50.1		50.0		77.9		187	180.4	17	
Merit 57	118.1				8.6				92.8				52.5				71.1		188		13	
Metcalf	102.1	107.0	120.2	109.8	9.0	9.8	12.2	10.3	93.5	97.3	97.2	96.0	53.9	53.1	53.3	53.4	70.3	79.4	187	181.4	33	
Moravian 165	100.3				9.5				97.5				53.1				72.8		187		27	30
Odyssey	130.3				8.8				98.3				53.3				61.0		188		23	24
Oreana	124.6				8.8				94.4				54.3				58.4		187		7	
Synergy	106.2	114.2			8.8	9.5			97.5	98.9			52.1	50.9			72.0		187		28	31
MT124027	122.0		130.7		8.9		11.3		97.2		97.3		54.3		53.0		70.3		188	181.1	23	
MT124128	97.0		114.8		9.5		11.2		98.0		96.8		54.7		53.2		61.8		180	173.6	5	
Average	110.1	115.6	116.9		9.1	9.9	11.7		94.2	98.0	91.4		53.8	52.8	52.2		69.0		186.7		22.2	
C.V.	6.7	7.0	7.5		6.3	6.5	12.0		1.9	0.8	2.6		1.1	0.8	1.5		5.6		0.7		51.7	
LSD	12.1	17.3	17.4		0.9	1.4	2.3		3.0	1.8	4.1		1.0	0.7	1.3		6.3		2.2		18.8	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Conrad Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Heading (Julian)	
	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	3 year Mean	Intra 2017	3 year Mean
Balster	93.5	107.4			11.1	9.2			72.7	98.5			47.8	51.3			56.7		174	
Bill Coors 100																				
Champion		106.1	102.6			11.1	9.1			98.3	94.8			54.6	53.2					
Claymore																				
Conrad			81.0				9.6				91.4				50.9					
Copeland	95.5	100.3			11.1	10.0			76.4	98.2			49.1	53.6			61.8		175	
Eslick																				
Genie	87.2	107.3			9.7	9.1			41.4	97.9			49.1	53.4			48.3		176	
Growler	80.9	117.0			12.2	8.9			59.2	98.7			47.2	52.3			54.2		176	
Haxby		107.5	90.5			11.6	10.0			98.5	89.2			55.0	54.2					
Haybet			70.1				10.3				61.4				47.2					
Hays																				
Hockett	100.9	106.6	89.3	98.9	11.0	10.3	9.1	10.2	80.3	99.2	96.9	92.1	53.2	54.2	52.0	53.1	58.4	67.1	174	170.8
Lavina			69.0				9.0				76.9				48.3					
Merit 57																				
Metcalf	73.1	97.1	87.7	86.0	12.3	10.3	9.4	10.7	68.2	98.1	81.6	82.6	50.4	53.1	51.0	51.5	53.4	64.1	174	171.6
Moravian 165																				
Odyssey	96.0				11.0				85.3				47.8				51.6		176	
Oreana																				
Synergy	83.9	107.6			11.5	9.6			69.3	98.9			49.0	51.9			55.9		174	
MT124027			87.1				8.9				91.1				50.9					
MT124128	89.4		87.2		10.9		9.6		81.7		101.6		52.4		52.8		50.8		170	
Average	88.2	104.7	85.6		11.2	10.0	9.4		71.2	98.5	87.6		49.7	53.3	51.2		55.2		174.2	
C.V.	13.5	11.6	10.8		7.4	6.4	4.7		12.3	0.5	5.2		2.8	1.3	1.8		6.2		0.7	
LSD	19.3	15.9	14.9		1.3	1.3	0.7		14.7	1.1	7.8		2.3	1.5	1.5		5.7		2.1	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Cut Bank Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)	
	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	3 year Mean
Balster	79.2				10.3				83.1				49.0				61.0	
Bill Coors 100	69.9				10.5				92.7				49.5				52.5	
Champion Claymore	83.5	106.1	68.9	86.2	10.6	14.4			72.7	94.8	94.9	87.5	53.3	51.9	51.4	52.2	65.2	61.0
Conrad		78.5	61.6			15.7	11.5			98.3	96.5			51.2	53.8			
Copeland	74.5				11.0				85.6				50.4				66.9	
Eslick																		
Genie	76.5				10.5				83.2				51.4				56.7	
Growler	53.5				10.6				74.8				46.8				59.3	
Haxby	67.1	78.3	68.5	71.3	9.6	14.8	10.5	11.6	70.7	97.2	96.1	88.0	54.0	51.6	52.3	52.6	57.6	59.5
Haybet		41.8	49.7			16.7	12.3			85.3	77.4			47.4	47.2			
Hays		43.9				15.0				93.4				49.7				
Hockett	75.7	87.4	70.9	78.0	10.5	13.7	10.5	11.6	83.8	97.8	96.8	92.8	51.3	51.9	51.3	51.5	58.4	61.3
Lavina	74.0	74.4	64.1	70.8	11.5	15.1	10.9	12.5	49.8	89.3	87.0	75.4	46.9	49.0	47.4	47.8	65.2	61.8
Merit 57																		
Metcalfe	75.3	81.1	60.7	72.4	11.2	14.9	11.5	12.5	79.8	97.6	94.7	90.7	51.1	52.1	49.8	51.0	62.7	61.5
Moravian 165	68.6				10.8				78.7				49.2				63.5	
Odyssey	72.2				9.9				90.0				49.2				56.7	
Oreana	82.7				10.3				80.4				51.9				55.0	
Synergy	71.3				10.8				85.4				49.5				62.7	
MT124027			60.4				10.6				95.0				49.1			
MT124128	90.5				9.6				95.6				53.3				59.3	
Average	73.7	75.5	63.1		10.5	14.8	11.1		80.8	94.4	92.3		50.6	50.6	50.3		60.6	
C.V.	17.2	16.1	8.9		5.9	3.9	5.2		6.3	1.5	1.9		1.1	1.5	4.2		4.4	
LSD	21.1	21.3	9.1		1.0	0.9	0.0		8.5	2.3	3.0		0.9	1.3	3.5		4.5	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Devon Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)	
	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	3 year Mean
Balster	54.3				12.5				68.4				46.6				48.9	
Bill Coors 100	56.7				13.5				91.4				50.1				44.9	
Champion Claymore	75.4	73.7	48.1	65.7	12.3	11.0	15.2	12.8	83.1	90.9	77.6	83.9	52.7	50.9	50.5	51.4	51.6	50.5
Conrad		70.7	39.3			10.9	16.7			94.6	88.9			50.0	49.6			
Copeland	58.0				13.3				87.5				48.7				56.7	
Eslick																		
Genie	62.4				12.4				78.2				50.1				48.3	
Growler	54.6				12.1				75.8				46.3				50.8	
Haxby	54.7	59.4	38.8	51.0	13.1	10.8	15.7	13.2	55.1	84.7	74.7	71.5	50.4	51.0	50.1	50.5	49.1	51.9
Haybet Hays		52.6	33.7			10.6	17.8			72.6	27.8			48.1	45.9			
		68.7				10.5				74.9				47.6				
Hockett	57.3	67.1	27.2	50.5	12.5	10.2	17.6	13.4	71.9	89.0	89.2	83.4	48.1	49.5	51.0	49.5	51.6	52.5
Lavina	69.8	64.8	46.9	60.5	12.3	9.3	16.2	12.6	68.6	84.8	59.9	71.1	48.0	49.1	47.2	48.1	51.6	52.5
Merit 57																		
Metcalfe	41.7	62.7	30.7	45.0	13.5	10.7	16.7	13.6	75.4	88.4	92.1	85.3	48.4	49.5	49.8	49.2	54.0	53.6
Moravian 165	53.6				13.3				79.4				48.8				51.6	
Odyssey	68.5				11.0				95.4				50.9				46.6	
Oreana	77.4				11.9				86.9				51.9				46.6	
Synergy	49.6				12.8				78.4				47.2				54.2	
MT124027			36.6				16.0				81.2				49.1			
MT124128	62.0				11.0				89.6				51.9				48.3	
Average	59.5	64.5	37.6		12.4	10.4	16.5		79.2	86.1	73.9		49.4	49.5	49.2		50.6	
C.V.	12.1	8.7	17.2		4.3	6.6	5.2		8.5	7.8	12.1		3.4	2.7	1.4		6.6	
LSD	12.0	12.7	10.7		0.9	1.5	1.4		11.3	15.4	16.0		2.8	3.0	1.1		5.6	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Havre Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)		Heading (Julian)	
	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	Intra 2016	Intra 2015	3 year Mean	Intra 2017	3 year Mean	Intra 2017	3 year Mean
Balster	47.5	88.2			13.4	14.0			87.8	91.9			52.8	52.0			46.7		173	
Bill Coors 100																				
Champion		94.9	79.0			13.3	15.6			91.2	56.8			53.2	51.6					
Claymore																				
Conrad			65.8				17.6				52.8				48.9					
Copeland	45.3	82.0			14.0	12.6			89.4	91.6			52.3	52.0			45.5		171	
Eslick																				
Genie	46.2	86.9			13.8	13.3			70.3	95.6			52.8	52.1			38.0		172	
Growler	39.9	81.7			14.5	13.5			83.5	89.6			51.8	52.6			43.4		173	
Haxby		80.8	78.6			14.2	16.0			90.7	51.9			52.5	52.1					
Haybet			51.3				17.6				10.0				47.4					
Hays																				
Hockett	37.3	97.0	77.3	70.6	14.2	14.1	15.6	14.6	94.6	95.8	67.0	85.8	54.0	52.9	50.6	52.5	46.4	59.8	169	169.8
Lavina			55.9				17.3				22.5				47.3					
Merit 57																				
Metcalfe	40.0	76.1	59.5	58.5	14.6	13.7	18.1	15.5	93.2	91.8	55.4	80.2	54.0	52.7	48.6	51.8	46.2	62.4	168	171.2
Moravian 165																				
Odyssey	41.7				14.3				94.3				53.5				47.9		167	
Oreana																				
Synergy	39.6	86.9			13.5	13.2			91.0	93.6			53.4	53.0			46.8		168	
MT124027			68.0				16.1				63.1				47.5					
MT124128	38.4		50.0		12.1		14.2		98.0		88.0		54.7		52.8		46.8		164	
Average	41.5	84.6	65.4		13.8	13.4	16.4		88.8	91.9	53.0		53.2	52.7	49.6		45.7		169.8	
C.V.	7.9	6.3	6.8		2.7	5.4	1.4		3.0	1.3	7.9		0.8	2.6	1.3		5.5		0.7	
LSD	5.4	11.2	7.4		0.6	1.6	0.4		4.3	2.6	8.3		0.7	2.9	1.0		4.2		2.0	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Knees - Dryland

	Yield bu/ac				Protein %				Plump %				Test Weight (lb/bu)				Height (cm)			
	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean	Off 2017	Off 2016	Off 2015	3 year Mean
Balster	75.8				14.2				71.7				45.7				64.3			
Bill Coors 100	72.5				14.8				74.6				46.4				61.8			
Champion Claymore	81.1	73.1	58.9	71.0	13.5	13.2	14.1	13.6	64.7	53.5	81.0	66.4	50.9	42.1	44.9	46.0	66.9	78.7	58.4	68.0
Conrad		105.7	43.7			13.8	15.0			84.9	85.8			46.8	44.0			56.7	52.5	
Copeland	72.2				14.2				77.4				47.8				69.4			
Eslick																				
Genie	78.3				13.0				75.4				49.8				66.0			
Growler	68.6				15.7				62.1				43.2				66.9			
Haxby	79.6	68.0	52.9	66.8	13.8	13.4	13.5	13.6	58.7	69.8	88.9	72.5	51.7	44.7	47.9	48.1	71.1	76.2	53.3	66.9
Haybet		65.6	41.7			14.6	15.2			49.4	60.9			43.1	41.6			67.7	59.2	
Hays		103.0				13.8				77.8				45.2				69.4		
Hockett	76.6	91.5	52.9	73.7	13.3	12.8	14.0	13.4	83.6	79.4	91.7	84.9	49.9	47.7	47.8	48.5	67.7	72.0	57.6	65.8
Lavina	66.3	86.6	44.4	65.8	14.1	13.7	14.5	14.1	26.0	63.3	62.9	50.7	43.6	43.4	39.5	42.2	68.6	72.8	52.5	64.6
Merit 57																				
Metcalfe	73.5	87.5	57.3	72.8	14.3	14.6	13.8	14.3	71.6	79.8	89.1	80.2	48.1	45.1	45.4	46.2	70.3	73.7	55.0	66.3
Moravian 165	69.6				14.3				71.0				48.1				69.4			
Odyssey	69.1				13.8				75.4				45.7				60.1			
Oreana	85.6				14.0				68.0				48.9				63.5			
Synergy	75.9				14.0				72.6				47.2				70.3			
MT124027			56.6				13.7				87.4				56.6					54.2
MT124128	67.8				12.4				80.5				51.6				61.8			
Average	74.0	83.2	51.1		13.9	13.6	14.2		69.9	69.9	80.9		48.1	44.3	44.5		66.8	71.1	55.4	
C.V.	6.2	16.6	14.0		3.0	3.6	5.5		11.4	7.6	3.9		1.8	2.5	2.4		3.6	9.0	9.6	
LSD	7.7	22.5	11.8		0.7	0.8	0.0		13.3	9.0	5.4		1.5	1.8	1.8		4.0	11.0	8.6	

Off = Offstation Barley Trials

Sidney Irrigated

	Yield bu/ac			Protein %			Plump %			Test Weight (lb/bu)			Height (cm)			Heading (julian)		
	2017	2015	2 year Mean	2017	2015	2 year Mean	2017	2015	2 year Mean	2017	2015	2 year Mean	2017	2015	2 year Mean	2017	2015	2 year Mean
	Intra	Intra	Mean	Intra	Intra	Mean	Intra	Intra	Mean	Intra	Intra	Mean	Intra	Intra	Mean	Intra	Intra	Mean
Balster	135.5			11.0			96.2			52.2			77.3			170		
Bill Coors 100																		
Champion		75.0		12.6			76.5			48.8			93.6			169		
Claymore																		
Conrad		68.8		13.6			87.5			49.1			85.5			171		
Copeland	120.1			11.1			93.1			52.4			81.7			171		
Eslick																		
Genie	128.6			10.5			92.0			53.5			69.0			171		
Growler	115.1			11.0			93.3			51.0			73.7			171		
Haxby		63.4		13.6			76.9			50.3			85.6			169		
Haybet		39.2		14.8			50.1			45.2			82.7			169		
Hays																		
Hockett	114.3	64.0	89.2	11.8	12.4	12.1	95.8	90.2	93.0	54.5	49.7	52.1	79.0	89.9	84.5	168	169	168.3
Lavina		55.2		13.6			67.7			45.9			89.2			169		
Merit 57																		
Metcalfe	110.8	62.1	86.4	11.5	13.1	12.3	94.5	79.0	86.8	53.5	48.2	50.9	77.7	89.3	83.5	168	169	168.7
Moravian 165																		
Odyssey	127.1			10.5			96.3			51.5			66.0			172		
Oreana																		
Synergy	127.2			11.7			96.2			52.5			80.3			170		
MT124027		69.3		11.6			87.2			49.6			90.9			170		
MT124128	118.8	58.0	88.4	11.6	11.9	11.7	96.0	93.2	94.6	53.7	49.9	51.8	68.7	91.8	80.3	165	167	166.0
Average	137.5	62.4		11.2	13.0		94.8	79.3		52.7	48.4		75.6	88.8		169.6	169.2	
C.V.	10.2	6.2		6.7	2.8		2.9	8.8		1.7	2.9		6.6	3.7		0.7	0.5	
LSD	21.4	7.8		1.2	0.6		4.3			1.5			8.0	5.4		1.9	1.3	

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Sidney Dryland

	<u>Yield bu/ac</u>			<u>Protein %</u>			<u>Plump %</u>			<u>Test Weight (lb/bu)</u>			<u>Height (cm)</u>			<u>Heading (Julian)</u>	
	Off 2017	Intra 2016	2 year Mean	Off 2017	Intra 2016	2 year Mean	Off 2017	Intra 2016	2 year Mean	Off 2017	Intra 2016	2 year Mean	Off 2017	Intra 2016	2 year Mean	Off 2017	Intra 2016
Balster	65.8	94.5	80.1	14.1	11.3	12.7	52.0	93.7	72.9	48.5	51.2	49.9	53.0	69.0	61	172	166
Bill Coors 100	54.5			14.3			71.5			50.5			47.3			172	
Champion	56.4	117.9	87.2	13.5	11.8	12.7	41.0	97.5	69.2	50.6	55.0	52.8	53.0	78.0	65.5	172	165
Claymore	48.6			13.7			50.3			47.7			52.0			175	
Conrad	51.5			14.9			57.0			49.6			46.7			179	
Copeland	51.2	115.9	83.6	14.5	12.0	13.3	58.3	95.0	76.7	48.9	53.3	51.1	50.7	74.3	62.5	173	167
Eslick	59.5			13.5			27.7			49.7			40.3			179	
Genie	63.0	114.7	88.9	12.3	10.9	11.6	69.3	92.6	81.0	50.2	52.8	51.5	45.7	66.7	56.2	178	167
Growler	42.7	87.5	65.1	15.3	11.9	13.6	56.8	93.7	75.3	46.4	52.6	49.5	48.7	62.0	55.3	177	168
Haxby	52.5	111.1	81.8	13.3	11.9	12.6	61.3	97.4	79.4	53.6	55.2	54.4	50.7	62.0	56.3	173	165
Haybet	49.0			14.8			12.7			47.7			58.3			173	
Hays	45.9			15.0			22.3			44.3			48.7			174	
Hockett	43.2	109.6	76.4	13.0	10.4	11.7	74.0	96.1	85.1	51.7	53.8	52.7	54.3	61.7	58.0	176	166
Lavina	47.1			14.6			21.0			45.0			54.3			174	
Merit 57	49.0			13.9			40.7			45.7			51.3			176	
Metcalfe	63.3	95.5	79.4	13.2	12.1	12.7	68.0	95.4	81.7	51.9	53.6	52.7	53.3	67.3	60.3	174	165
Moravian 165	54.0			12.9			63.8			50.6			55.3			171	
Odyssey	43.6			13.4			61.4			48.7			47.7			179	
Oreana	59.6			12.7			70.3			52.0			46.7			175	
Synergy	55.7	104.9	80.3	13.2	11.4	12.3	75.0	95.7	85.3	49.9	52.4	51.1	51.7	71.3	61.5	176	167
MT124027	42.5			13.2			55.7			49.2			53.0			174	
MT124128	44.1			12.9			94.0			53.8			50.7			173	
Average	52.6	104.0		13.7	11.5		54.7	95.4		49.8	53.4		51.3	68.9		174.5	166.5
C.V.	23.7	10.4		6.6	7.3		16.0	2.3		1.8	1.3		8.0	8.4		1.3	0.5
LSD	20.5	22.7		1.5	1.8		14.4	4.7		1.5	1.5		6.7	12.5		3.6	1.9

Off = Offstation Barley Trials Intra= Intrastate Barley Trials

Barley Dryland Variety Trial - NDSU

WREC, Williston, ND 2017

Variety	Plant Height (in)	Heading Date DAP*	Protein [†] (%)	Test weight [‡] (lb/bu)	Plump % >6/64	Yield [#]		
						2017 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg* (bu/a)
Two Row								
Pinnacle	19.4	66	16.0	46.5	68.3	52.4	67.8	65.6
Hockett	18.9	73	16.4	46.5	68.5	62.7	69.8	63.5
ND Genesis	20.7	65	14.7	45.8	70.6	59.1	68.1	59.5
CDC Meredith	21.1	58	17.3	40.9	26.6	50.4	66.2	59.3
Conlon	20.9	61	16.0	48.9	89.5	44.2	57.8	50.5
LCS Genie	18.9	66	16.0	45.7	51.1	61.6	71.7	-
AAC Synergy	19.6	68	16.8	43.0	58.6	57.3	69.5	-
LCS Odyssey	18.0	70	17.0	46.3	53.3	59.1	67.5	-
Sirish	19.7	63	17.4	45.9	52.4	55.8	67.0	-
ABI Balster	19.0	63	17.0	42.7	43.4	57.2	66.8	-
ABI Growler	18.8	63	17.8	41.2	37.4	53.2	64.2	-
Explorer	19.7	74	16.1	46.2	68.8	57.3	-	-
Six Row								
Celebration	20.2	65	16.9	44.4	53.4	60.0	73.6	62.2
Tradition	18.8	59	15.7	46.8	68.5	56.3	67.1	60.9
Lacey	19.2	66	17.1	44.2	57.3	56.9	67.2	59.0
Stellar-ND	18.9	67	16.7	44.4	67.6	59.2	62.9	58.2
Quest	18.8	58	16.5	46.2	62.7	48.4	62.5	57.9
Innovation	18.4	63	17.2	45.3	67.9	53.8	63.8	57.9
Mean	19.4	64.9	16.6	45.1	59.2	55.8	-	-
CV (%)	8.0	11.7	1.3	3.0	16.8	10.2	-	-
LSD (5%)	2.5	12.3	1.0	0.8	17.4	9.6	-	-
LSD (10%)	2.1	10.3	0.8	0.7	14.5	8.0	-	-

DAP* = Days after planting (Drought stress contributed to high variability in DAP.)

[†]Protein adjusted to 0% moisture[‡]Test weight reported on a 13.5% moisture basis[#]Yield reported on a 13.5% moisture basis