

2016 WESTERN REGIONAL SPRING BARLEY NURSERY



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This report is compiled in electronic format intended for transmittal to the nursery cooperators.

This is a joint progress report of cooperative investigations underway in the State Agricultural Experiment Stations and the Agricultural Research Service of the U.S. Department of Agriculture. This report is primarily a tool for use by cooperators, their official staffs and those persons having direct and special interest in the development of agricultural research programs.

This report includes data furnished by the State Agricultural Experiment Stations as well as by the Agricultural Research Service and was compiled in the Northern Plains Area and the Pacific West Area, Agricultural Research Service, U.S. Department of Agriculture. Use of the data may be granted for certain purposes upon written request to the agency or agencies involved.

NATIONAL SMALL GRAINS GERMPLASM RESEARCH FACILITY, ABERDEEN, IDAHO

Cooperative Institutions:

American Malting Barley Association, Inc.
Colorado State University
Montana State University
USDA-ARS, Cereal Disease Laboratory
USDA-ARS, National Small Grains Research Facility
University of Minnesota
University of Wyoming
Washington State University

Busch Agricultural Resources LLC
Highland Specialty Grain
North Dakota State University
USDA-ARS, Cereal Crops Research
USDA-ARS, Wheat Genetics
University of Saskatchewan
Utah State University

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**UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
In cooperation with
State Agricultural Experiment Stations**

2016 Western Regional Spring Barley Nursery							
Seed Source	Entry No.	Entry	Parentage	Type	Grade	Years Tested	Cooperator
WSU	1	Step toe	CI 15229	6 row	feed		Check, Ulrich, Wood
USDA-ARS	2	Baronesse	PI 568246	2 row	feed		Check, Erickson
USDA-ARS	3	Harrington		2 row	malting		Check, Erickson
USDA-ARS	4	AC Metcalfe		2 row	malting		Check, Erickson, Beattie
BARI	5	* 2B10-4162		2 row	malting	0	Heward
BARI	6	2B10-4378	2B99-2763-10 / 2B03-3669 // 2B05-0822 / 2B99-2763-10	2 row	malting	2	Heward
BARI	7	2B11-4949	MERIT 57 / MT050118	2 row	malting	2	Heward
BARI	8	2B11-5166	2B03-3604 / 2B06-1161	2 row	malting	2	Heward
BARI	9	2B12-5582	2B05-0728 / 2B06-0929	2 row	malting	1	Heward
HSG	10	BZ509-601		2 row	feed	1	McKay
USDA-ARS	11	2Ab09-X06F084-51	03AH3054/98Ab12019	2 row	food	2	HU
USDA-ARS	12	2Ab09-X06F058HL-31	02HR4590/CDC Fibar	2 row	food	2	HU
USDA-ARS	13	08ARS112-75	Lenetah / Newdale // 2B02-2925	2 row	malting	1	HU
USDA-ARS	14	08ARS116-91	Amsterdam / Tetonia // Voyager	2 row	malting	1	HU
USDA-ARS	15	* 08ARS028-20	2Ab04-X01084-27 / Newdale	2 row	malting	0	HU
MSU	16	* MT090182		2 row	malting	0	Sherman
MSU	17	* MT090190		2 row	malting	0	Sherman
MSU	18	* MT100120		2 row	malting	0	Sherman
MSU	19	* MT100126		2 row	malting	0	Sherman
MSU	20	* MT124555		2 row	malting	0	Sherman
NDSU	21	2ND28065	2ND21867/2ND24238	2 row	malting	3	Horsley
NDSU	22	* 2ND30837		2 row	malting	0	Horsley
USU	23	* UTSB10902-91	WA 641566/Short_2*2//Cooper/3/Century/IdagoldII	6 row	feed	0	Hole
USU	24	* UTSB10905-72	Century/IdagoldII//Goldeneye	6 row	feed	0	Hole
WSU	25	11WA-107.20	Farmington/Baronesse//Bob/Merit	2 row	feed	1	Murphy, Wood
WSU	26	10WA-106.18	Champion/02WNZ-1095	2 row	feed	1	Murphy, Wood
WSU	27	* 10WA-117.24	Radiant/Baronesse/3/WA 10701-99//Baronesse/Harrington (X06G10)/4/Pmut-422H/CDC Candle (05WA-344.1)	2 row	feed	0	Murphy, Wood
WSU	28	* 11WA-107.43	Farmington/Baronesse//Bob/Merit	2 row	feed	0	Murphy, Wood
WSU	29	* 12WA-120.14	WA 10701-99/NZDK 00-131//AC Metcalfe	2 row	feed	0	Murphy, Wood
WSU	30	* 11WA-107.58	Farmington/Baronesse//Bob/Merit	2 row	Feed	0	Murphy, Wood
WSU	31	* 10WA-117.17	Radiant/Baronesse/3/WA 10701-99//Baronesse/Harrington (X06G10)/4/Pmut-422H/CDC Candle (05WA-344.1)	2 row	feed	0	Murphy, Wood
* new entries							

2014-16 Western Regional Spring Barley Nursery Mean Data

Entry #	Entry	Yield (Bu/A)			TWT (lbs/Bu)			Heading (Julian)			Height (inch)			Plump (>6/64)			Protein (%)		
		2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
1	Stephoe	95.2	95.0	91.7	48.3	48.3	48.7	169.2	170.2	170.7	31.5	30.7	30.1	91.8	91.6	92.7	11.5	11.9	11.9
2	Baronesse	102.9	102.5	105.3	51.9	52.0	52.2	172.8	173.7	175.3	30.1	29.0	28.6	89.4	88.5	86.3	12.3	12.8	12.5
3	Harrington	93.6	93.0	91.8	50.4	50.9	50.9	173.3	173.8	175.4	31.5	30.6	30.3	89.7	89.3	88.4	12.3	13.0	12.8
4	AC Metcalfe	93.3	91.7	93.3	51.3	51.8	51.8	172.9	173.8	175.0	32.3	31.5	31.4	86.7	88.2	87.0	12.6	13.0	12.4
5	2B10-4162			104.4			51.7			175.3			28.9		79.5			13.0	
6	2B10-4378	100.8	99.3	98.6	51.1	51.5	51.3	172.6	173.6	175.1	29.5	28.4	28.3	87.0	86.2	84.6	11.8	12.4	11.9
7	2B11-4949	104.3	103.8	101.8	50.6	50.9	50.5	173.0	174.1	175.9	29.4	28.2	27.7	88.1	87.4	85.7	11.9	12.6	12.4
8	2B11-5166	102.7	101.0	98.4	50.3	50.6	50.3	172.9	173.5	174.9	30.5	29.6	29.5	88.5	88.1	85.9	11.8	12.6	12.4
9	2B12-5582		97.5	98.3		51.0	50.7		173.3	174.6		30.0	29.3		90.6	89.5		13.4	13.1
10	BZ509-601		109.6	109.4		52.7	52.7		173.4	175.0		30.1	29.7		85.2	82.8		12.8	12.7
11	2Ab09-X06F084-51	95.9	97.0	99.4	50.5	50.8	50.7	175.6	175.7	177.0	32.3	31.5	30.5	87.8	88.0	87.1	13.5	14.2	13.6
12	2Ab09-X06F058HL-31	76.7	75.6	80.0	54.2	54.9	54.9	174.5	175.7	176.5	30.7	29.6	28.7	85.5	83.3	80.6	14.5	15.2	14.0
13	08ARS112-75		107.5	109.9		51.4	51.4		173.4	174.8		30.5	30.7		87.1	83.6		12.5	12.3
14	08ARS116-91		94.2	96.8		51.2	51.0		172.5	174.0		29.4	28.8		88.2	86.8		12.8	12.6
15	08ARS028-20			98.7		51.0	51.0			176.4			28.5		83.2			12.0	
16	MT090182			104.7		52.5	52.5			176.1			31.3		90.2			11.4	
17	MT090190			100.1			53.3			176.0			31.0		90.4			11.4	
18	MT100120	102.1	101.0	100.2	52.0	52.6	52.8	173.5	174.4	176.0	32.7	31.8	31.5	92.1	91.8	91.3	11.0	11.6	11.4
19	MT100126	100.5	98.6	97.4	52.2	52.7	53.1	174.1	175.4	177.1	33.3	32.0	31.5	90.9	90.7	91.5	11.5	12.1	12.1
20	MT124555			101.3			53.2			175.0			30.3		93.2			11.8	
21	2ND28065	102.8	103.6	102.8	52.2	52.6	52.6	170.7	172.1	173.4	32.4	31.6	31.0	90.8	89.7	89.3	12.5	12.9	12.7
22	2ND30837			95.8			51.9			174.2			30.4		90.4			12.6	
23	UTSB10902-91			104.3			48.6			171.8			31.6		90.6			12.1	
24	UTSB10905-72			105.1			49.7			171.3			31.5		94.6			12.1	
25	11WA-107.20		110.1	109.8		52.6	52.4		173.3	174.2		29.7	29.6		88.2	86.3		12.9	12.7
26	10WA-106.18	105.7	103.8	102.5	52.2	52.4	52.5	171.9	173.0	174.7	31.3	30.6	30.4	87.5	86.9	85.7	11.8	12.3	12.3
27	10WA-117.24			86.3			50.6			175.7			32.0		87.7			12.4	
28	11WA-107.43			105.0			53.3			173.9			28.9		89.0			12.4	
29	12WA-120.14			95.3			51.2			175.6			30.5		89.3			13.1	
30	11WA-107.58			107.5			54.4			174.9			30.1		93.0			12.4	
31	10WA-117.17			95.1			51.3			174.2			30.3		85.1			12.0	
MEAN:		101.1	100.5	99.7	51.3	51.7	51.7	172.5	173.4	174.8	31.2	30.2	30.1	89.0	88.7	87.8	12.1	12.7	12.4
CHECK'S MEAN:		96.2	95.5	95.5	50.5	50.8	50.9	172.1	172.9	174.1	31.4	30.5	30.1	89.4	89.4	88.6	12.2	12.6	12.4
Observations:		12	15	12	11	15	10	9	12	8	12	14	9	7	12	7	11	9	3

2014-16 Western Regional Spring Barley Nursery Mean Data (Metric)

ENTRY	NO.	Entry	Yield (Mg/Ha)			Test Weight (kg/m ³)			Heading (Julian)			Height (cm)			Plump (>2.4mm)			Protein (%)		
			2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
1	Step toe	5.12	5.11	4.93	621.9	622.2	626.9	169.2	170.2	170.7	80.0	78.0	76.5	91.8	91.6	92.7	11.5	11.9	11.9	
2	Baronesse	5.53	5.51	5.67	668.3	669.0	671.9	172.8	173.7	175.3	76.4	73.7	72.6	89.4	88.5	86.3	12.3	12.8	12.5	
3	Harrington	5.03	5.00	4.94	648.5	655.5	655.2	173.3	173.8	175.4	80.0	77.7	77.0	89.7	89.3	88.4	12.3	13.0	12.8	
4	AC Metcalfe	5.02	4.93	5.02	660.3	666.3	666.8	172.9	173.8	175.0	82.1	80.1	79.8	86.7	88.2	87.0	12.6	13.0	12.4	
5	2B10-4162			5.62			665.5			175.3			73.4		79.5				13.0	
6	2B10-4378	5.42	5.34	5.30	657.8	662.7	660.3	172.6	173.6	175.1	74.9	72.2	71.9	87.0	86.2	84.6	11.8	12.4	11.9	
7	2B11-4949	5.61	5.58	5.48	651.6	654.6	650.0	173.0	174.1	175.9	74.7	71.5	70.4	88.1	87.4	85.7	11.9	12.6	12.4	
8	2B11-5166	5.52	5.43	5.29	647.2	651.7	647.5	172.9	173.5	174.9	77.4	75.1	74.9	88.5	88.1	85.9	11.8	12.6	12.4	
9	2B12-5582		5.24	5.29		657.0	652.6		173.3	174.6		76.3	74.4		90.6	89.5		13.4	13.1	
10	BZ509-601		5.89	5.89		678.3	678.3		173.4	175.0		76.6	75.4		85.2	82.8		12.8	12.7	
11	2Ab09-X06F084-51	5.16	5.22	5.35	649.9	654.3	652.6	175.6	175.7	177.0	82.1	80.0	77.5	87.8	88.0	87.1	13.5	14.2	13.6	
12	2Ab09-X06F058HL-31	4.12	4.07	4.30	697.8	706.5	706.7	174.5	175.7	176.5	77.9	75.1	72.9	85.5	83.3	80.6	14.5	15.2	14.0	
13	08ARS112-75		5.78	5.91		661.6	661.6		173.4	174.8		77.6	78.0		87.1	83.6		12.5	12.3	
14	08ARS116-91		5.06	5.21		658.8	656.5		172.5	174.0		74.6	73.2		88.2	86.8		12.8	12.6	
15	08ARS028-20			5.31			656.5			176.4			72.4			83.2			12.0	
16	MT090182			5.63			675.8			176.1			79.5			90.2			11.4	
17	MT090190			5.39			686.1			176.0			78.7			90.4			11.4	
18	MT100120	5.49	5.43	5.39	669.5	676.8	679.6	173.5	174.4	176.0	82.9	80.8	80.0	92.1	91.8	91.3	11.0	11.6	11.4	
19	MT100126	5.40	5.30	5.24	672.2	678.2	683.5	174.1	175.4	177.1	84.5	81.3	80.0	90.9	90.7	91.5	11.5	12.1	12.1	
20	MT124555			5.45			684.8			175.0			77.0			93.2			11.8	
21	2ND28065	5.53	5.57	5.53	672.3	676.7	677.1	170.7	172.1	173.4	82.2	80.3	78.7	90.8	89.7	89.3	12.5	12.9	12.7	
22	2ND30837			5.15			668.0			174.2			77.2			90.4			12.6	
23	UTSB10902-91			5.61			625.6			171.8			80.3			90.6			12.1	
24	UTSB10905-72			5.65			639.7			171.3			80.0			94.6			12.1	
25	11WA-107.20		5.92	5.91		676.5	674.5		173.3	174.2		75.5	75.2		88.2	86.3		12.9	12.7	
26	10WA-106.18	5.68	5.58	5.51	671.3	673.9	675.8	171.9	173.0	174.7	79.4	77.7	77.2	87.5	86.9	85.7	11.8	12.3	12.3	
27	10WA-117.24			4.64			651.3			175.7			81.3			87.7			12.4	
28	11WA-107.43			5.65			686.1			173.9			73.4			89.0			12.4	
29	12WA-120.14			5.13			659.0			175.6			77.5			89.3			13.1	
30	11WA-107.58			5.78			700.2			174.9			76.5			93.0			12.4	
31	10WA-117.17			5.12			660.3			174.2			77.0			85.1			12.0	
MEAN:			5.44	5.40	5.36	660.7	665.6	665.7	172.5	173.4	174.8	79.4	77.0	77.0	89.0	88.7	87.8	12.1	12.7	12.4
CHECK'S MEAN:			5.17	5.14	5.14	649.8	653.2	655.2	172.1	172.9	174.1	79.6	77.4	76.5	89.4	89.4	88.6	12.2	12.6	12.4
Observations:			12	15	12	11	15	10	9	12	8	12	14	9	7	12	7	2	6	3

2016 Western Regional Spring Barley Nursery Mean Data All Locations

Entry	No.	Name	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein
			Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm	%
1	1	Steptoe	91.7	4.934	48.7	626.9	170.7	30.1	76.5	1.9	92.7	3.00	11.90
2	2	Baronesse	105.3	5.665	52.2	671.9	175.3	28.6	72.6	1.7	86.3	4.00	12.50
3	3	Harrington	91.8	4.939	50.9	655.2	175.4	30.3	77.0	2.0	88.4	4.00	12.80
4	4	AC Metcalfe	93.3	5.020	51.8	666.8	175.0	31.4	79.8	1.7	87.0	4.00	12.40
5	5	2B10-4162	104.4	5.617	51.7	665.5	175.3	28.9	73.4	1.7	79.5	6.00	13.00
6	6	2B10-4378	98.6	5.305	51.3	660.3	175.1	28.3	71.9	1.7	84.6	5.00	11.90
7	7	2B11-4949	101.8	5.477	50.5	650.0	175.9	27.7	70.4	1.6	85.7	5.00	12.40
8	8	2B11-5166	98.4	5.294	50.3	647.5	174.9	29.5	74.9	1.9	85.9	6.00	12.40
9	9	2B12-5582	98.3	5.289	50.7	652.6	174.6	29.3	74.4	1.4	89.5	5.00	13.10
10	10	BZ509-601	109.4	5.886	52.7	678.3	175.0	29.7	75.4	1.4	82.8	5.00	12.70
11	11	2Ab09-X06F084-51	99.4	5.348	50.7	652.6	177.0	30.5	77.5	1.6	87.1	4.00	13.60
12	12	2Ab09-X06F058HL-3	80.0	4.304	54.9	706.7	176.5	28.7	72.9	1.9	80.6	9.00	14.00
13	13	08ARS112-75	109.9	5.913	51.4	661.6	174.8	30.7	78.0	1.6	83.6	6.00	12.30
14	14	08ARS116-91	96.8	5.208	51.0	656.5	174.0	28.8	73.2	1.5	86.8	6.00	12.60
15	15	08ARS028-20	98.7	5.310	51.0	656.5	176.4	28.5	72.4	1.3	83.2	6.00	12.00
16	16	MT090182	104.7	5.633	52.5	675.8	176.1	31.3	79.5	1.9	90.2	3.00	11.40
17	17	MT090190	100.1	5.385	53.3	686.1	176.0	31.0	78.7	1.6	90.4	3.00	11.40
18	18	MT100120	100.2	5.391	52.8	679.6	176.0	31.5	80.0	1.6	91.3	4.00	11.40
19	19	MT100126	97.4	5.240	53.1	683.5	177.1	31.5	80.0	1.8	91.5	3.00	12.10
20	20	MT124555	101.3	5.450	53.2	684.8	175.0	30.3	77.0	1.6	93.2	3.00	11.80
21	21	2ND28065	102.8	5.531	52.6	677.1	173.4	31.0	78.7	1.4	89.3	4.00	12.70
22	22	2ND30837	95.8	5.154	51.9	668.0	174.2	30.4	77.2	2.3	90.4	2.00	12.60
23	23	UTSB10902-91	104.3	5.611	48.6	625.6	171.8	31.6	80.3	1.8	90.6	6.00	12.10
24	24	UTSB10905-72	105.1	5.654	49.7	639.7	171.3	31.5	80.0	1.7	94.6	4.00	12.10
25	25	11WA-107.20	109.8	5.907	52.4	674.5	174.2	29.6	75.2	1.5	86.3	5.00	12.70
26	26	10WA-106.18	102.5	5.515	52.5	675.8	174.7	30.4	77.2	2.2	85.7	5.00	12.30
27	27	10WA-117.24	86.3	4.643	50.6	651.3	175.7	32.0	81.3	2.8	87.7	5.00	12.40
28	28	11WA-107.43	105.0	5.649	53.3	686.1	173.9	28.9	73.4	0.9	89.0	3.00	12.40
29	29	12WA-120.14	95.3	5.127	51.2	659.0	175.6	30.5	77.5	2.9	89.3	3.00	13.10
30	30	11WA-107.58	107.5	5.784	54.4	700.2	174.9	30.1	76.5	0.9	93.0	3.00	12.40
31	31	10WA-117.17	95.1	5.116	51.3	660.3	174.2	30.3	77.0	3.5	85.1	4.00	12.00
MEAN:			99.7	5.4	51.7	665.6	174.8	30.1	77.0	1.8	87.8	4.46	12.40
CHECK'S MEAN:			95.5	5.1	50.9	655.2	174.1	30.1	76.5	1.8	88.6	3.75	12.40
Observations:			12	12	10	10	8	9	9	7	7	5	3

2016 Western Regional Spring Barley Nursery											
Cooperator: <i>Gongshe Hu</i>				Location: Aberdeen, ID				No. of Reps: 3			
Harvest Plot Area (sq.ft.): 50				Seed Date: 4/19/16				Harvest Date: 8/11/16			
Entry #	Entry	YIELD		TEST		HEADING	HEIGHT		LODGING	PLUMP	THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm
1	Steptoe	120.6	6.488	48.4	622.9	165.0	41.3	104.9	7.3	86.3	
2	Baronesse	129.6	6.973	52.3	673.1	169.0	37.0	94.0	7.7	71.2	
3	Harrington	112.3	6.042	52.0	669.2	169.0	38.3	97.3	7.3	69.2	
4	AC Metcalfe	137.6	7.403	53.1	683.4	168.7	40.7	103.4	5.7	80.8	
5	2B10-4162	129.6	6.973	52.2	671.8	168.0	37.7	95.8	6.7	61.2	
6	2B10-4378	122.4	6.585	52.1	670.5	168.3	36.3	92.2	7.3	74.6	
7	2B11-4949	122.1	6.569	52.4	674.4	169.0	37.0	94.0	6.3	76.8	
8	2B11-5166	121.6	6.542	51.3	660.2	169.3	38.3	97.3	7.7	77.3	
9	2B12-5582	119.2	6.413	52.1	670.5	168.0	38.0	96.5	5.0	83.8	
10	BZ509-601	139.2	7.489	52.5	675.7	168.0	38.3	97.3	5.0	68.4	
11	2Ab09-X06F084-51	108.8	5.854	50.9	655.1	170.7	38.3	97.3	6.0	65.4	
12	2Ab09-X06F058HL-31	92.6	4.982	57.6	741.3	170.0	35.7	90.7	8.0	72.8	
13	08ARS112-75	147.8	7.952	52.0	669.2	168.0	38.7	98.3	6.3	78.5	
14	08ARS116-91	148.7	8.000	52.7	678.2	165.0	37.0	94.0	5.0	84.1	
15	08ARS028-20	126.9	6.827	51.1	657.7	170.7	39.3	99.8	5.0	72.8	
16	MT090182	126.9	6.827	53.1	683.4	169.3	40.0	101.6	7.0	79.6	
17	MT090190	142.8	7.683	53.1	683.4	169.0	41.3	104.9	5.3	82.9	
18	MT100120	139.8	7.521	53.6	689.8	169.3	40.3	102.4	5.7	87.3	
19	MT100126	115.3	6.203	52.8	679.5	170.0	40.7	103.4	6.0	78.9	
20	MT124555	139.1	7.484	54.0	695.0	169.0	39.7	100.8	6.0	86.3	
21	2ND28065	145.7	7.839	54.2	697.6	166.0	42.0	106.7	5.7	82.0	
22	2ND30837	127.9	6.881	51.6	664.1	166.7	38.7	98.3	6.3	78.9	
23	UTSB10902-91	152.7	8.215	49.8	640.9	164.7	41.0	104.1	7.3	95.3	
24	UTSB10905-72	153.9	8.280	50.8	653.8	165.0	43.3	110.0	6.7	95.9	
25	11WA-107.20	145.1	7.806	53.7	691.1	167.3	38.7	98.3	4.7	78.6	
26	10WA-106.18	108.7	5.848	52.1	670.5	167.3	39.3	99.8	6.3	67.5	
27	10WA-117.24	91.7	4.934	50.1	644.8	168.7	39.7	100.8	7.3	80.8	
28	11WA-107.43	154.7	8.323	54.2	697.6	166.7	37.0	94.0	1.0	87.0	
29	12WA-120.14	118.3	6.365	51.5	662.8	168.0	39.0	99.1	7.0	78.4	
30	11WA-107.58	152.4	8.199	54.7	704.0	168.0	40.7	103.4	2.0	88.4	
31	10WA-117.17	102.2	5.498	50.7	652.5	169.7	36.0	91.4	8.3	65.2	
LOCATION MEAN:		128.9	6.9	52.3	673.7	168.1	39.0	99.1	6.1	78.6	
CHECK'S MEAN:		125.0	6.7	51.5	662.2	167.9	39.3	99.9	7.0	76.9	
CV %		11.5	11.5			0.3	3.7	3.7	24.6		
LSD (.05)		20.1	1.1	3 Rep	3 Rep	0.6	2.0	5.0	2.1	3 Rep	
# Reps		3	3	Bulk	Bulk	Page 73	3	3	3	Bulk	

2016 Western Regional Spring Barley Nursery

Cooperator: <i>Jason Heward</i>				Location: Idaho Falls, ID						No. of Reps: 2	
Harvest Plot Area (sq.ft.):				Seed Date:						Harvest Date:	
		YIELD		TEST		HEADING	HEIGHT		LODGING	PLUMP	THIN
Entry #	Entry	Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm
1	Steptoe	158.0	9.918								
2	Baronesse	167.2	10.495								
3	Harrington	128.6	8.072								
4	AC Metcalfe	129.3	8.116								
5	2B10-4162	159.3	9.999								
6	2B10-4378	155.2	9.742								
7	2B11-4949	161.2	10.119								
8	2B11-5166	158.5	9.949								
9	2B12-5582	154.6	9.704								
10	BZ509-601	160.4	10.068								
11	2Ab09-X06F084-51	152.5	9.572								
12	2Ab09-X06F058HL-31	111.8	7.018								
13	08ARS112-75	178.2	11.186								
14	08ARS116-91	131.5	8.254								
15	08ARS028-20	138.0	8.662								
16	MT090182	175.1	10.991								
17	MT090190	129.8	8.148								
18	MT100120	144.0	9.039								
19	MT100126	149.8	9.403								
20	MT124555	166.8	10.470								
21	2ND28065	153.8	9.654								
22	2ND30837	139.5	8.756								
23	UTSB10902-91	146.4	9.190								
24	UTSB10905-72	144.2	9.051								
25	11WA-107.20	164.1	10.301								
26	10WA-106.18	148.9	9.346								
27	10WA-117.24	104.3	6.547								
28	11WA-107.43	138.1	8.669								
29	12WA-120.14	119.5	7.501								
30	11WA-107.58	114.5	7.187								
31	10WA-117.17	150.5	9.447								
LOCATION MEAN:		146.2	9.2								
CHECK'S MEAN:		145.8	9.2								
CV %		11.9	11.9								
LSD (.05)		29.5	1.8								
# Reps		2	2								

2016 Western Regional Spring Barley Nursery

Cooperator: Gongshe Hu		Location: Tetonia, ID				No. of Reps: 3					
Harvest Plot Area (sq.ft.): 50		Seed Date: 5/3/2016				Harvest Date: 8/25/2016					
Entry #	Entry	YIELD		TEST		HEADING	HEIGHT		LODGING	PLUMP	THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm
1	Steptoe	52.9	2.843	48.6	625.5					91.5	
2	Baronesse	62.0	3.333	51.8	666.7					66.6	
3	Harrington	64.8	3.483	51.2	658.9					75.9	
4	AC Metcalfe	61.1	3.284	50.0	643.5					62.8	
5	2B10-4162	70.5	3.789	52.1	670.5					50.0	
6	2B10-4378	71.6	3.849	52.1	670.5					63.3	
7	2B11-4949	58.5	3.144	51.6	664.1					66.4	
8	2B11-5166	66.8	3.591	51.2	658.9					73.9	
9	2B12-5582	73.3	3.940	51.0	656.4					75.3	
10	BZ509-601	75.9	4.080	53.3	686.0					55.2	
11	2Ab09-X06F084-51	62.4	3.354	51.8	666.7					81.2	
12	2Ab09-X06F058HL-31	62.6	3.365	60.1	773.5					60.7	
13	08ARS112-75	67.6	3.634	50.7	652.5					60.3	
14	08ARS116-91	74.8	4.021	50.0	643.5					65.9	
15	08ARS028-20	56.3	3.026	50.6	651.2					58.2	
16	MT090182	78.3	4.209	53.0	682.1					84.1	
17	MT090190	71.6	3.849	53.4	687.3					80.2	
18	MT100120	69.3	3.725	52.8	679.5					80.6	
19	MT100126	63.4	3.408	53.6	689.8					85.3	
20	MT124555	67.1	3.607	53.1	683.4					86.7	
21	2ND28065	73.2	3.935	52.8	679.5					76.0	
22	2ND30837	61.0	3.279	52.2	671.8					75.7	
23	UTSB10902-91	72.0	3.870	48.2	620.3					79.8	
24	UTSB10905-72	69.0	3.709	49.2	633.2					92.2	
25	11WA-107.20	79.1	4.252	53.1	683.4					66.1	
26	10WA-106.18	78.9	4.241	53.2	684.7					77.4	
27	10WA-117.24	68.7	3.693	50.9	655.1					72.8	
28	11WA-107.43	62.6	3.365	52.7	678.2					63.5	
29	12WA-120.14	65.2	3.505	50.8	653.8					74.6	
30	11WA-107.58	84.3	4.531	54.7	704.0					83.2	
31	10WA-117.17	68.9	3.703	51.6	664.1					70.0	
LOCATION MEAN:		68.2	3.7	52.0	669.0					72.8	
CHECK'S MEAN:		60.2	3.2	50.4	648.6					74.2	
CV %		12.9	12.9								
LSD (.05)		11.9	0.6	3 rep	3 rep						
# Reps		3	3	Bulk	Bulk					3 rep Bulk	

2016 Western Regional Spring Barley Nursery

Cooperator: MSU Jamie Sherman/Liz Elmore				Location: Bozeman, MT						No. of Reps: 3		
Harvest Plot Area (sq.ft.): varied 36-46				Seed Date: 4/19/2016				Harvest Date: 8/14/2016				
Entry #	Entry	YIELD		TEST		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm	%
1	Steptoe	92.1	4.950	52.7	678.6	175.0	22.8	57.8	0.0	95.0	2.33	11.3
2	Baronesse	93.9	5.047	54.8	705.7	180.3	22.3	56.7	0.0	91.8	3.06	11.9
3	Harrington	94.6	5.085	54.5	701.8	178.3	24.2	61.4	0.0	90.4	4.97	12.9
4	AC Metcalfe	74.9	4.026	54.6	702.3	178.0	24.7	62.7	0.0	90.1	5.33	11.6
5	2B10-4162	92.6	4.977	55.7	716.9	176.7	23.1	58.6	0.0	83.9	6.80	12.6
6	2B10-4378	87.0	4.676	55.6	715.2	178.3	23.8	60.5	0.0	93.3	2.64	12.3
7	2B11-4949	98.3	5.284	54.3	699.2	178.7	21.4	54.4	0.0	87.4	5.54	12.7
8	2B11-5166	85.6	4.601	55.1	708.8	178.0	23.1	58.6	0.0	88.5	6.55	12.9
9	2B12-5582	87.5	4.703	55.6	716.0	177.7	23.9	60.8	0.0	93.4	3.34	13.8
10	BZ509-601	97.4	5.235	55.6	715.6	178.3	23.0	58.4	0.0	86.4	5.78	12.8
11	2Ab09-X06F084-51	101.1	5.434	54.1	696.3	179.0	24.8	62.9	0.0	89.9	4.01	13.8
12	2Ab09-X06F058HL-31	83.3	4.477	63.3	814.7	178.0	24.4	62.0	0.0	92.2	3.36	14.8
13	08ARS112-75	88.6	4.762	54.1	696.3	178.7	25.2	63.9	0.0	80.4	9.11	12.6
14	08ARS116-91	90.7	4.875	53.9	693.3	177.0	22.0	55.9	0.0	89.2	5.48	13.3
15	08ARS028-20	82.2	4.418	54.2	697.6	180.7	20.7	52.7	0.0	88.9	3.44	11.1
16	MT090182	89.1	4.789	55.0	707.5	180.7	25.4	64.4	0.0	89.2	2.65	10.5
17	MT090190	81.4	4.375	54.8	705.3	180.3	25.7	65.2	0.0	90.7	3.39	11.1
18	MT100120	85.3	4.585	55.5	713.9	178.7	26.1	66.3	0.0	94.0	2.22	10.9
19	MT100126	84.3	4.531	55.7	717.2	181.3	26.3	66.7	0.0	93.1	2.70	11.5
20	MT124555	80.5	4.327	55.9	719.0	177.3	23.1	58.6	0.0	96.2	1.68	12.1
21	2ND28065	77.6	4.171	55.3	712.1	177.0	24.6	62.5	0.0	88.7	5.74	12.8
22	2ND30837	87.9	4.725	55.6	716.0	177.3	23.2	58.9	0.0	95.3	1.74	12.5
23	UTSB10902-91	84.9	4.563	52.9	680.4	175.7	25.0	63.5	0.0	92.0	3.56	11.9
24	UTSB10905-72	97.4	5.235	53.9	693.3	175.7	24.3	61.8	0.0	96.1	1.66	12.6
25	11WA-107.20	86.1	4.628	55.8	718.1	176.7	21.3	54.2	0.0	87.5	5.02	12.5
26	10WA-106.18	88.9	4.778	55.5	713.9	178.0	24.0	60.9	0.0	77.7	10.09	12.1
27	10WA-117.24	89.7	4.821	54.2	697.9	177.7	27.2	69.2	0.0	93.0	3.40	12.1
28	11WA-107.43	86.1	4.628	56.5	726.8	176.0	22.6	57.4	0.0	86.9	4.98	11.4
29	12WA-120.14	94.0	5.053	54.5	701.8	179.0	24.7	62.7	0.0	93.3	2.52	12.9
30	11WA-107.58	101.9	5.477	56.7	730.1	178.0	23.6	59.9	0.0	95.5	2.06	11.9
31	10WA-117.17	88.1	4.735	55.6	715.2	177.3	24.7	62.7	0.0	92.6	3.19	11.5
LOCATION MEAN:		88.8	4.8	55.4	712.5	178.1	24.0	60.9	0.0	90.2	4.17	12.33
CHECK'S MEAN:		88.9	4.8	54.2	697.1	177.9	23.5	59.7	0.0	91.8	3.92	11.93
CV %		10.2	10.2	1.1	1.1	0.9	5.5	5.5		2.8	34.36	6.82
LSD (.05)		19.6	1.1	1.3	16.7	3.6	2.8	7.2		5.5	3.21	1.81
# Reps		3	3	3	3	3	3	3		3	3	3

2016 Western Regional Spring Barley Nursery

Cooperator: <i>Jason Heward</i>				Location: Fairfield, MT						No. of Reps: 2		
Harvest Plot Area (sq.ft.):				Seed Date:						Harvest Date:		
Entry #	Entry	YIELD		TEST		HEADING	HEIGHT		LODGING	PLUMP		THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm	
1	Steptoe	109.7	6.886									
2	Baronesse	136.6	8.574									
3	Harrington	128.0	8.035									
4	AC Metcalfe	128.8	8.085									
5	2B10-4162	134.8	8.461									
6	2B10-4378	140.2	8.800									
7	2B11-4949	140.4	8.813									
8	2B11-5166	136.1	8.543									
9	2B12-5582	125.5	7.878									
10	BZ509-601	152.0	9.541									
11	2Ab09-X06F084-51	148.7	9.334									
12	2Ab09-X06F058HL-31	110.2	6.917									
13	08ARS112-75	149.5	9.384									
14	08ARS116-91	135.4	8.499									
15	08ARS028-20	152.1	9.547									
16	MT090182	148.7	9.334									
17	MT090190	147.6	9.265									
18	MT100120	131.9	8.279									
19	MT100126	135.5	8.505									
20	MT124555	139.5	8.756									
21	2ND28065	143.4	9.001									
22	2ND30837	131.2	8.235									
23	UTSB10902-91	153.3	9.623									
24	UTSB10905-72	156.3	9.811									
25	11WA-107.20	153.1	9.610									
26	10WA-106.18	143.5	9.007									
27	10WA-117.24	113.4	7.118									
28	11WA-107.43	139.5	8.756									
29	12WA-120.14	139.5	8.756									
30	11WA-107.58	143.3	8.995									
31	10WA-117.17	132.0	8.286									
LOCATION MEAN:		138.0	8.7									
CHECK'S MEAN:		125.8	7.9									
CV %		4.1	4.1									
LSD (.05)		9.7	0.6									
# Reps		2	2									

2016 Western Regional Spring Barley Nursery

Cooperator: <i>John Rickertsen</i>		Location: NDSU Hettinger Reserch Ext. Center, Hettinger, ND								No. of Reps: 3			
Harvest Plot Area (sq.ft.): 64		Seed Date: 4/4/2016						Harvest Date: 7/28/2016					
Entry #	Entry	YIELD		TEST		HEADING		HEIGHT		LODGING	PLUMP	THIN	Protein
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm	%	
1	Steptoe	67.5	3.630	43.3	557.3	167.0	20.0	50.8	0.0	92.5	7.5	11.1	
2	Baronesse	65.9	3.540	48.4	622.9	174.0	18.7	47.5	0.0	90.7	9.3	12.2	
3	Harrington	65.4	3.520	48.4	622.9	174.0	19.5	49.5	0.0	93.8	6.2	12.2	
4	AC Metcalfe	64.8	3.480	48.5	624.2	172.0	20.3	51.6	0.0	91.3	8.7	11.9	
5	2B10-4162	69.4	3.730	48.0	617.8	174.0	18.7	47.5	0.0	91.2	8.8	13.0	
6	2B10-4378	69.1	3.710	48.1	619.0	174.0	20.2	51.3	0.0	91.9	8.1	10.8	
7	2B11-4949	66.5	3.570	47.6	612.6	174.0	17.7	45.0	0.0	90.3	9.7	11.5	
8	2B11-5166	63.5	3.410	45.3	583.0	172.0	18.3	46.5	0.0	84.3	15.8	11.8	
9	2B12-5582	65.5	3.520	46.4	597.2	174.0	19.0	48.3	0.0	89.4	10.6	11.8	
10	BZ509-601	71.3	3.830	48.6	625.5	174.0	18.0	45.7	0.0	87.1	12.9	12.0	
11	2Ab09-X06F084-51	56.6	3.040	47.9	616.5	175.0	20.5	52.1	0.0	92.7	7.3	12.7	
12	2Ab09-X06F058HL-31	52.7	2.830	53.8	692.4	175.0	17.8	45.2	0.0	68.5	31.5	12.0	
13	08ARS112-75	78.8	4.240	47.3	608.8	174.0	20.0	50.8	0.0	87.8	12.2	12.1	
14	08ARS116-91	62.0	3.330	47.0	604.9	174.0	19.3	49.0	0.0	86.1	13.9	11.5	
15	08ARS028-20	65.6	3.530	47.5	611.3	175.0	19.2	48.8	0.0	84.4	15.6	12.0	
16	MT090182	64.8	3.480	51.7	665.4	175.0	22.3	56.6	0.0	94.8	5.2	11.9	
17	MT090190	67.0	3.600	51.3	660.2	175.0	21.5	54.6	0.0	95.3	4.7	11.6	
18	MT100120	60.9	3.270	51.0	656.4	175.0	22.3	56.6	0.0	94.4	5.6	11.9	
19	MT100126	64.5	3.470	51.5	662.8	175.0	20.0	50.8	0.0	94.6	5.4	12.5	
20	MT124555	67.6	3.630	50.0	643.5	175.0	19.8	50.3	0.0	95.1	4.9	11.3	
21	2ND28065	65.2	3.500	49.7	639.6	172.0	20.5	52.1	0.0	94.0	6.0	12.3	
22	2ND30837	63.1	3.390	50.2	646.1	173.0	21.2	53.8	0.0	96.9	3.1	11.9	
23	UTSB10902-91	63.3	3.410	44.7	575.3	167.0	22.0	55.9	0.0	88.4	11.6	12.0	
24	UTSB10905-72	62.8	3.380	45.7	588.2	167.0	22.8	57.9	0.0	91.4	8.6	11.1	
25	11WA-107.20	77.0	4.140	49.9	642.2	173.0	20.0	50.8	0.0	91.7	8.3	12.5	
26	10WA-106.18	70.7	3.800	48.8	628.1	173.0	18.5	47.0	0.0	93.4	6.6	11.8	
27	10WA-117.24	70.7	3.800	48.2	620.3	173.0	20.8	52.8	0.0	92.3	7.7	11.5	
28	11WA-107.43	74.1	3.980	51.1	657.7	173.0	20.2	51.3	0.0	95.6	4.4	12.4	
29	12WA-120.14	72.4	3.890	48.0	617.8	174.0	21.8	55.4	0.0	95.9	4.1	12.6	
30	11WA-107.58	73.1	3.930	51.1	657.7	174.0	19.8	50.3	0.0	95.5	4.5	12.1	
31	10WA-117.17	66.9	3.590	47.7	613.9	174.0	18.3	46.5	0.0	90.6	9.4	11.4	
LOCATION MEAN:		66.7	3.6	48.6	625.5	173.0	20.0	50.7	0.0	91.0	9.00	11.90	
CHECK'S MEAN:		65.9	3.5	47.2	606.8	171.8	19.6	49.8	0.0	92.1	7.93	11.85	
CV %		8.4	8.4	1.8	1.8	0.4	4.5	4.5	--	2.9	29.70	9.10	
LSD (.05)		9.2	0.5	1.4	18.0	1.0	1.5	3.8	NS	4.3	4.30	1.80	
# Reps		3	3	3	3	3	3	3	3	3	3	3	

2016 Western Regional Spring Barley Nursery

Cooperator: **Dr. Richard D. Horsley**
Harvest Plot Area (sq.ft.): **40**

Location: **McVile, ND**
Seed Date: **4/23/2016**

No. of Reps: **3**
Harvest Date: **8/18/2016**

Entry #	Entry	YIELD		TEST		HEADING (Julian)	HEIGHT		LODGING 0-10	PLUMP >2.4mm 2r	THIN <2.2mm	Foliar Disease 1-9
		Bu/A	Mg/ha	lbs./Bu	kg/m ³		in.	cm				
1	Step toe	89.7	4.828	45.2	581.7	167.7	30.3	77.0	4.7			6.30
2	Baronesse	108.8	5.852	53.7	691.1	171.0	29.1	74.0	3.0			4.00
3	Harrington	80.2	4.313	46.4	596.7	172.7	30.8	78.3	5.7			6.30
4	AC Metcalfe	99.9	5.376	50.1	645.2	172.7	30.8	78.3	4.0			4.00
5	2B10-4162	97.3	5.233	49.9	642.7	173.0	28.7	73.0	3.7			4.70
6	2B10-4378	86.4	4.648	45.7	587.7	173.0	28.2	71.7	3.7			4.30
7	2B11-4949	101.6	5.466	45.9	590.7	174.0	28.2	71.5	3.0			3.00
8	2B11-5166	87.6	4.711	47.1	605.5	172.3	29.3	74.5	4.3			4.00
9	2B12-5582	93.8	5.045	47.1	605.7	172.3	28.5	72.3	4.0			4.30
10	BZ509-601	115.9	6.237	53.0	682.1	171.7	30.6	77.7	3.7			2.70
11	2Ab09-X06F084-51	93.4	5.025	51.6	664.1	173.3	29.8	75.8	3.7			6.00
12	2Ab09-X06F058HL-31	74.7	4.017	50.4	648.7	173.7	27.9	70.8	3.3			5.00
13	08ARS112-75	108.1	5.816	49.9	642.7	172.0	30.6	77.7	3.0			2.70
14	08ARS116-91	84.7	4.555	46.1	593.7	171.3	28.9	73.5	4.3			6.30
15	08ARS028-20	95.6	5.144	48.0	618.2	174.0	28.0	71.2	3.3			3.30
16	MT090182	96.1	5.170	50.4	648.2	172.0	30.4	77.3	4.0			5.70
17	MT090190	99.6	5.358	51.1	657.7	173.3	31.0	78.8	4.3			5.00
18	MT100120	97.3	5.233	50.2	645.7	173.7	31.8	80.8	4.3			5.30
19	MT100126	95.3	5.125	52.5	676.1	174.0	31.0	78.8	5.0			5.00
20	MT124555	94.6	5.088	51.3	660.7	172.3	31.0	78.7	4.3			5.30
21	2ND28065	106.4	5.726	49.9	642.7	171.3	31.4	79.7	3.0			3.30
22	2ND30837	94.1	5.063	49.7	639.2	171.3	30.6	77.8	4.0			3.00
23	UTSB10902-91	92.7	4.989	45.7	587.7	168.7	30.1	76.5	3.3			5.70
24	UTSB10905-72	99.1	5.332	48.5	623.8	169.0	30.0	76.2	3.3			4.70
25	11WA-107.20	109.1	5.869	50.6	651.7	171.0	29.6	75.2	3.7			3.00
26	10WA-106.18	108.1	5.816	51.1	658.1	171.0	30.6	77.7	5.0			3.70
27	10WA-117.24	84.4	4.539	47.6	612.2	172.3	32.0	81.2	6.0			4.30
28	11WA-107.43	106.9	5.753	52.0	669.7	171.0	29.0	73.7	3.3			2.70
29	12WA-120.14	85.7	4.612	46.4	596.5	173.0	30.7	78.0	6.7			4.00
30	11WA-107.58	113.1	6.085	54.4	700.1	171.3	30.6	77.8	3.3			3.00
31	10WA-117.17	79.7	4.288	47.1	605.8	172.3	29.9	76.0	6.7			5.00
LOCATION MEAN:		96.1	5.2	49.3	634.6	172.0	30.0	76.2	4.1			4.37
CHECK'S MEAN:		94.7	5.1	48.9	628.7	171.0	30.3	76.9	4.4			5.15
CV %		6.9	6.9	4.4	4.4	0.5	2.6	2.6	18.6			14.64
LSD (.05)		10.8	0.6	3.6	46.1	1.5	1.3	3.2	1.3			1.05
# Reps		3	3	3	3	3	3	3	3			3

2016 Western Regional Spring Barley Nursery

Cooperator: **Dr. Richard D. Horsley**
Harvest Plot Area (sq.ft.): **40**

Location: **Minot, ND**
Seed Date: **4/12/2016**

No. of Reps: **3**
Harvest Date: **8/5/2016**

Entry #	Entry	YIELD		TEST		HEADING	HEIGHT		LODGING	PLUMP	THIN	Foliar Disease
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm	1-9
1	Step toe	101.3	5.448	51.1	658.1	167.7	26.7	67.8				4.30
2	Baronesse	127.6	6.865	54.6	703.1	171.7	26.1	66.2				5.00
3	Harrington	109.4	5.888	54.2	697.1	172.0	26.6	67.7				5.70
4	AC Metcalfe	110.1	5.923	56.7	730.2	172.3	26.7	67.8				3.70
5	2B10-4162	121.6	6.542	54.4	700.1	173.0	25.6	65.0				5.00
6	2B10-4378	119.4	6.425	56.0	721.1	171.7	26.3	66.8				3.70
7	2B11-4949	118.3	6.363	53.2	685.1	173.3	23.9	60.8				5.00
8	2B11-5166	114.3	6.148	54.4	700.1	171.7	27.7	70.3				4.70
9	2B12-5582	111.3	5.986	53.9	693.7	171.7	27.4	69.7				4.00
10	BZ509-601	117.3	6.309	57.7	742.6	171.0	27.6	70.0				3.70
11	2Ab09-X06F084-51	119.8	6.443	55.6	715.2	175.3	26.7	67.8				5.00
12	2Ab09-X06F058HL-31	94.6	5.090	56.0	721.1	174.0	25.3	64.2				4.30
13	08ARS112-75	126.4	6.802	57.2	736.2	171.0	28.0	71.2				3.30
14	08ARS116-91	103.6	5.574	56.0	721.2	171.0	24.5	62.2				5.00
15	08ARS028-20	117.1	6.300	55.8	718.1	173.3	26.1	66.2				2.30
16	MT090182	117.9	6.345	58.1	748.2	173.0	27.6	70.0				5.30
17	MT090190	104.8	5.637	57.5	739.6	172.7	28.3	72.0				4.70
18	MT100120	119.4	6.426	58.9	757.6	173.7	29.4	74.8				5.70
19	MT100126	123.1	6.623	57.4	739.2	173.7	29.4	74.7				5.00
20	MT124555	101.1	5.437	57.2	736.2	171.3	27.2	69.0				6.30
21	2ND28065	121.6	6.542	56.3	724.2	169.0	28.0	71.0				4.70
22	2ND30837	113.1	6.085	54.6	703.1	172.3	26.4	67.0				3.00
23	UTSB10902-91	106.9	5.753	49.9	642.2	167.0	29.3	74.5				4.00
24	UTSB10905-72	117.4	6.318	52.3	672.7	166.3	28.6	72.7				4.00
25	11WA-107.20	134.4	7.233	56.0	721.1	171.3	26.5	67.2				3.70
26	10WA-106.18	125.4	6.748	56.3	724.2	171.0	28.8	73.2				4.70
27	10WA-117.24	112.1	6.031	55.1	709.1	175.0	29.6	75.2				4.30
28	11WA-107.43	119.8	6.443	56.3	724.1	171.0	26.1	66.3				3.00
29	12WA-120.14	112.3	6.040	56.3	724.1	173.7	27.0	68.5				6.00
30	11WA-107.58	125.4	6.748	59.6	766.6	171.3	27.3	69.5				3.00
31	10WA-117.17	116.6	6.273	56.0	721.2	172.0	28.6	72.7				4.30
LOCATION MEAN:		115.6	6.2	55.6	716.0	171.8	27.2	69.1				4.40
CHECK'S MEAN:		112.1	6.0	54.2	697.1	170.9	26.5	67.4				4.68
CV %		9.0	9.0	3.9	3.9	0.7	5.2	5.2				19.92
LSD (.05)		14.1	0.8	3.0	38.2	1.5	1.9	4.9				1.19
# Reps		3	3	3	3	3	3	3				3

Optional observations:

Precipitation 10.53" measured by North Dakota Ag Weather Network (NDAWN) at Minot, ND
Soil Moisture Normal
Previous Crop Soybean
Soil Type Forman-Aastad loam

Comments †Test weight recorded using Zurn 150 (Schlingmann) weigh system.

**Foliar disease scale (1=no foliar disease, 9=severe foliar disease).

2016 Western Regional Spring Barley Nursery

Cooperator: **McKay, Highland Specialty Grains**
 Harvest Plot Area (sq.ft.): **75**

Location: **Moses Lake, WA**
 Seed Date: **4/28/2016**

No. of Reps: **3**
 Harvest Date: **8/23/2016**

Entry #	Entry	YIELD		TEST		HEADING (Julian)	HEIGHT		LODGING 0-10	PLUMP >2.4mm 2r	THIN <2.2mm
		Bu/A	Mg/ha	lbs./Bu	kg/m ³		in.	cm			
1	Steptoe	75.6	4.067	44.8	576.7		38.8	98.4	1.0		
2	Baronesse	82.9	4.459	47.6	612.3		33.0	83.8	1.0		
3	Harrington	58.2	3.129	46.8	602.4		40.0	101.6	1.0		
4	AC Metcalfe	51.9	2.793	47.1	606.3		43.5	110.5	2.0		
5	2B10-4162	86.0	4.626	46.8	602.0		37.3	94.6	1.5		
6	2B10-4378	64.4	3.463	44.7	575.4		33.8	85.7	1.0		
7	2B11-4949	63.8	3.431	44.2	569.4		34.5	87.6	2.0		
8	2B11-5166	54.5	2.929	45.1	580.5		35.3	89.5	1.5		
9	2B12-5582	66.1	3.554	45.2	581.8		34.8	88.3	1.0		
10	BZ509-601	79.0	4.251	47.2	607.6		35.0	88.9	1.0		
11	2Ab09-X06F084-51	57.8	3.110	44.9	578.4		39.5	100.3	1.0		
12	2Ab09-X06F058HL-31	34.6	1.860	42.4	545.8		34.8	88.3	2.0		
13	08ARS112-75	71.6	3.854	45.4	584.4		36.8	93.3	1.0		
14	08ARS116-91	69.5	3.737	48.5	623.9		39.5	100.3	1.0		
15	08ARS028-20	71.2	3.830	47.2	607.1		34.5	87.6	1.0		
16	MT090182	66.1	3.554	46.7	600.7		38.0	96.5	1.0		
17	MT090190	66.8	3.593	47.5	611.8		37.5	95.3	1.0		
18	MT100120	67.2	3.613	47.4	609.7		37.0	94.0	1.0		
19	MT100126	54.2	2.914	47.1	606.3		37.0	94.0	1.0		
20	MT124555	74.0	3.980	50.1	644.9		36.3	92.1	1.0		
21	2ND28065	76.4	4.110	48.6	625.6		38.5	97.8	1.0		
22	2ND30837	70.4	3.789	47.9	616.6		37.0	94.0	5.5		
23	UTSB10902-91	83.8	4.509	43.6	561.2		38.8	98.4	1.0		
24	UTSB10905-72	69.3	3.730	44.1	567.6		39.5	100.3	1.5		
25	11WA-107.20	78.4	4.218	48.9	629.4		37.0	94.0	1.5		
26	10WA-106.18	67.2	3.615	49.1	631.6		37.5	95.3	4.0		
27	10WA-117.24	50.3	2.706	46.0	592.1		40.0	101.6	6.0		
28	11WA-107.43	91.2	4.904	49.6	638.9		38.3	97.2	1.5		
29	12WA-120.14	56.9	3.060	48.1	619.1		36.5	92.7	6.0		
30	11WA-107.58	90.2	4.854	50.0	643.6		36.3	92.1	1.0		
31	10WA-117.17	60.6	3.259	48.2	620.4		40.0	101.6	9.0		
LOCATION MEAN:		68.1	3.7	46.8	602.4		37.3	94.7	2.0		
CHECK'S MEAN:		67.1	3.6	46.6	599.4		38.8	98.6	1.3		
CV %		13.0	13.0								
LSD (.05)		14.5	0.8								
# Reps		3	3								

2016 Western Regional Spring Barley Nursery

Cooperator: **Murphy / Wood**
Harvest Plot Area (sq.ft.): **80**

Location: **Pullman, WA 46°44'46.5"N 117°19'21.8"W**
Seed Date: **4/24/2016**

No. of Reps: **3**
Harvest Date: **8/18/2016**

Entry #	Entry	YIELD		TEST		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm	%
1	Steptoe	64.0	3.440	49.2	633.2	176.0	27.2	69.1	0.0	94.0	4.00	13.4
2	Baronesse	112.0	6.020	52.5	675.7	181.0	28.7	72.9	0.0	92.0	5.00	13.3
3	Harrington	104.0	5.590	51.7	665.4	181.0	30.3	77.0	0.0	94.0	5.00	13.3
4	AC Metcalfe	101.0	5.429	52.7	678.2	182.0	30.7	78.0	0.0	95.0	4.00	13.6
5	2B10-4162	111.0	5.966	52.9	680.8	181.0	26.3	66.8	0.0	87.0	7.00	13.3
6	2B10-4378	98.0	5.268	53.5	688.5	182.0	26.2	66.5	0.0	92.0	5.00	12.7
7	2B11-4949	111.0	5.966	52.4	674.4	183.0	27.8	70.6	0.0	92.0	5.00	13.1
8	2B11-5166	104.0	5.590	52.0	669.2	181.0	28.5	72.4	0.0	91.0	5.00	12.5
9	2B12-5582	101.0	5.429	52.4	674.4	182.0	29.3	74.4	0.0	96.0	4.00	13.7
10	BZ509-601	113.0	6.074	54.2	697.6	181.0	30.2	76.7	0.0	92.0	5.00	13.2
11	2Ab09-X06F084-51	102.0	5.483	51.5	662.8	184.0	30.2	76.7	0.0	88.0	6.00	14.3
12	2Ab09-X06F058HL-31	86.0	4.623	57.0	733.6	183.0	28.5	72.4	0.0	90.0	6.00	15.3
13	08ARS112-75	110.0	5.913	52.5	675.7	180.0	31.0	78.7	0.0	93.0	5.00	12.1
14	08ARS116-91	102.0	5.483	53.0	682.1	182.0	28.0	71.1	0.0	95.0	5.00	13.0
15	08ARS028-20	105.0	5.644	51.7	665.4	182.0	30.0	76.2	0.0	92.0	5.00	13.0
16	MT090182	101.0	5.429	53.1	683.4	183.0	30.3	77.0	0.0	93.0	5.00	11.9
17	MT090190	106.0	5.698	53.4	687.3	182.0	29.5	74.9	0.0	96.0	4.00	11.6
18	MT100120	106.0	5.698	53.6	689.8	183.0	28.3	71.9	0.0	96.0	4.00	11.5
19	MT100126	96.0	5.160	54.4	700.1	184.0	29.5	74.9	0.0	96.0	4.00	12.2
20	MT124555	100.0	5.375	54.0	695.0	181.0	29.3	74.4	0.0	96.0	4.00	11.9
21	2ND28065	94.0	5.053	53.8	692.4	179.0	29.2	74.2	0.0	93.0	5.00	13.1
22	2ND30837	97.0	5.214	52.9	680.8	180.0	29.8	75.7	0.0	94.0	4.00	13.5
23	UTSB10902-91	103.0	5.536	49.9	642.2	179.0	29.3	74.4	0.0	95.0	4.00	12.3
24	UTSB10905-72	114.0	6.128	51.0	656.4	178.0	31.5	80.0	0.0	96.0	4.00	12.5
25	11WA-107.20	108.0	5.805	53.3	686.0	181.0	28.2	71.6	0.0	93.0	5.00	13.2
26	10WA-106.18	112.0	6.020	53.1	683.4	181.0	30.2	76.7	0.0	92.0	5.00	12.9
27	10WA-117.24	102.0	5.483	51.3	660.2	182.0	30.8	78.2	0.0	91.0	6.00	13.6
28	11WA-107.43	108.0	5.805	54.1	696.3	181.0	27.5	69.9	0.0	96.0	4.00	13.3
29	12WA-120.14	106.0	5.698	52.0	669.2	182.0	29.7	75.4	0.0	92.0	5.00	13.8
30	11WA-107.58	118.0	6.343	54.2	697.6	181.0	29.2	74.2	0.0	95.0	4.00	13.2
31	10WA-117.17	105.0	5.644	51.4	661.5	173.0	30.8	78.2	0.0	90.0	5.00	13.0
LOCATION MEAN:		103.3	5.6	52.7	678.7	180.9	29.2	74.2	0.0	93.1	4.78	13.01
CHECK'S MEAN:		112.0	6.0	52.5	675.7	181.3	28.7	72.8	0.0	92.0	5.00	13.33
CV %		20.0	20.0	0.8	0.8	5.5	2.5	2.5		3.4	1.17	0.70
LSD (.05)		11.8	0.6	0.9	11.3	1.9	5.2	13.2		2.2	14.93	3.27
# Reps		3	3	3	3	3	3	3		3	3	3

2016 Western Regional Spring Barley Nursery

Cooperator: **Aaron Beattie**
Harvest Plot Area (sq.ft.): **48**

Location: **Saskatoon, Saskatchewan, Canada**
Seed Date: **4/21/2016**

No. of Reps: **3**
Harvest Date: **8/6/2016**

Entry #	Entry	YIELD		TEST		HEADING	HEIGHT		LODGING	PLUMP		THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm 2r	<2.2mm	
1	Steptoe	66.4	4.175	53.0	682.1	183.0	33.9	86.0		90.7	1.78	
2	Baronesse	74.0	4.655	52.5	676.4	191.0	33.1	84.0		93.5	2.38	
3	Harrington	57.4	3.609	51.3	660.8	191.0	35.0	89.0		97.8	1.78	
4	AC Metcalfe	66.1	4.155	52.1	670.9	190.0	37.8	96.0		91.2	2.39	
5	2B10-4162	74.2	4.669	52.0	669.3	190.0	35.4	90.0		88.8	5.31	
6	2B10-4378	67.5	4.247	52.2	671.8	189.0	33.1	84.0		80.2	7.11	
7	2B11-4949	70.1	4.412	51.3	660.5	191.0	32.7	83.0		89.5	5.36	
8	2B11-5166	78.8	4.954	50.3	647.4	189.0	34.3	87.0		90.3	2.72	
9	2B12-5582	79.2	4.979	52.6	677.6	187.0	34.6	88.0		91.0	3.53	
10	BZ509-601	79.6	5.008	50.8	654.2	190.0	36.2	92.0		94.5	1.98	
11	2Ab09-X06F084-51	76.6	4.815	46.4	597.1	192.0	34.6	88.0		96.3	3.75	
12	2Ab09-X06F058HL-31	60.1	3.780	47.7	614.3	192.0	33.5	85.0		95.5	0.79	
13	08ARS112-75	77.9	4.901	51.6	663.9	190.0	34.3	87.0		87.5	3.71	
14	08ARS116-91	64.3	4.041	50.5	649.9	186.0	31.9	81.0		90.9	3.16	
15	08ARS028-20	70.5	4.435	51.5	662.7	191.0	32.7	83.0		89.3	3.16	
16	MT090182	72.2	4.543	50.8	653.8	191.0	35.8	91.0		93.1	2.18	
17	MT090190	72.1	4.535	57.2	736.8	191.0	32.3	82.0		89.9	3.57	
18	MT100120	77.0	4.842	51.4	661.6	191.0	36.2	92.0		89.0	5.78	
19	MT100126	77.9	4.901	52.2	671.8	193.0	37.0	94.0		94.7	1.19	
20	MT124555	75.5	4.750	52.2	672.3	190.0	35.4	90.0		93.7	0.79	
21	2ND28065	73.7	4.634	51.9	667.6	188.0	36.6	93.0		93.7	3.37	
22	2ND30837	74.3	4.675	50.5	650.6	189.0	35.0	89.0		94.0	0.97	
23	UTSB10902-91	82.7	5.202	50.8	653.8	186.0	36.2	92.0		85.0	6.69	
24	UTSB10905-72	78.6	4.946	50.7	652.9	186.0	32.7	83.0		91.4	3.14	
25	11WA-107.20	78.1	4.914	48.9	629.2	189.0	33.9	86.0		89.7	3.90	
26	10WA-106.18	72.0	4.531	51.9	667.8	189.0	33.1	84.0		96.5	0.39	
27	10WA-117.24	63.2	3.975	51.9	667.6	191.0	35.8	91.0		85.8	5.91	
28	11WA-107.43	80.1	5.041	52.2	671.4	188.0	32.7	83.0		96.5	3.35	
29	12WA-120.14	68.2	4.290	51.0	656.7	191.0	33.1	84.0		92.2	3.70	
30	11WA-107.58	82.7	5.198	53.5	689.2	190.0	35.0	89.0		95.1	1.76	
31	10WA-117.17	65.3	4.104	52.3	672.9	191.0	35.4	90.0		89.7	3.77	
LOCATION MEAN:		72.8	4.6	51.5	662.4	189.6	35.8	87.6		91.5	3.21	
CHECK'S MEAN:		66.0	4.1	52.2	672.5	188.8	36.2	88.8		93.3	2.08	
CV %		5.5	5.5			0.4						
LSD (.05)			0.5			1.5						
# Reps		3	3	1	1	3	1	1		1	1	

2016 Western Regional Spring Barley Nursery

Cooperator: *University of Wyoming - PREC*
Harvest Plot Area (sq.ft.): 70

Location: **Powell, WY**
Seed Date: **3/28/2016**

No. of Reps: 3
Harvest Date: **8/9/2016**

Entry #	Entry	YIELD		TEST		HEADING (Julian)	HEIGHT		LODGING 0-10	PLUMP		THIN <2.2mm
		Bu/A	Mg/ha	lbs./Bu	kg/m ³		in.	cm		>2.4mm	2r	
1	Steptoe	100.7	5.411	50.8	654.0	164.3	30.0	76.2	0.3	99.1	0.74	
2	Baronesse	101.1	5.434	54.0	694.5	164.3	29.3	74.5	0.0	98.2	0.52	
3	Harrington	99.9	5.369	52.6	677.5	165.0	28.0	71.1	0.0	97.9	0.68	
4	AC Metcalfe	94.4	5.072	53.0	682.5	164.3	27.5	69.9	0.3	97.8	0.76	
5	2B10-4162	105.7	5.683	52.7	678.2	166.3	27.2	69.0	0.3	94.3	1.27	
6	2B10-4378	102.6	5.514	52.7	678.3	164.3	26.8	68.2	0.0	97.0	0.94	
7	2B11-4949	110.1	5.919	51.9	668.1	164.3	26.5	67.3	0.0	97.7	0.73	
8	2B11-5166	107.7	5.789	51.1	657.8	165.7	30.7	77.9	0.0	96.3	1.16	
9	2B12-5582	101.4	5.451	50.9	654.6	163.7	28.2	71.5	0.0	97.8	0.80	
10	BZ509-601	112.9	6.067	53.7	691.3	165.7	28.5	72.4	0.3	96.1	0.92	
11	2Ab09-X06F084-51	112.0	6.020	52.5	676.1	166.3	30.5	77.5	0.3	96.1	0.96	
12	2Ab09-X06F058HL-31	95.0	5.105	61.0	785.1	166.3	30.8	78.3	0.3	84.3	1.85	
13	08ARS112-75	112.5	6.047	53.0	682.4	165.0	31.3	79.6	0.7	97.6	0.71	
14	08ARS116-91	94.4	5.073	52.6	676.5	165.7	28.2	71.5	0.0	96.6	1.03	
15	08ARS028-20	102.7	5.521	52.5	675.5	164.3	25.8	65.6	0.0	96.7	1.11	
16	MT090182	119.8	6.438	53.1	682.8	165.0	32.3	82.1	1.0	97.8	0.75	
17	MT090190	110.2	5.925	53.6	690.1	164.3	31.5	80.0	0.3	97.8	0.84	
18	MT100120	105.3	5.661	53.7	691.2	163.7	32.3	82.1	0.3	97.9	0.84	
19	MT100126	110.4	5.935	53.6	690.4	165.7	32.8	83.4	0.3	98.2	0.72	
20	MT124555	107.0	5.751	54.2	697.6	164.3	31.2	79.2	0.0	98.3	0.67	
21	2ND28065	103.1	5.543	53.1	683.1	165.0	28.2	71.5	0.0	97.9	0.67	
22	2ND30837	89.5	4.808	53.3	685.6	164.3	31.8	80.9	0.3	97.7	0.88	
23	UTSB10902-91	110.4	5.937	50.5	650.3	166.3	32.3	82.1	0.7	98.9	0.94	
24	UTSB10905-72	100.2	5.384	50.3	647.7	163.0	30.7	77.9	0.3	99.1	0.88	
25	11WA-107.20	107.3	5.769	53.9	693.6	164.3	31.0	78.7	0.3	97.2	0.78	
26	10WA-106.18	105.1	5.650	54.0	694.6	167.0	31.3	79.6	0.3	95.3	1.09	
27	10WA-117.24	85.4	4.590	51.1	658.0	165.7	32.3	82.1	0.0	98.1	0.56	
28	11WA-107.43	98.0	5.269	53.9	693.2	164.3	26.8	68.2	0.3	97.8	0.55	
29	12WA-120.14	105.9	5.691	53.2	684.5	164.3	32.0	81.3	0.7	98.8	0.47	
30	11WA-107.58	92.0	4.943	54.8	705.4	165.7	28.3	72.0	0.3	98.3	0.61	
31	10WA-117.17	103.5	5.566	52.7	677.8	164.3	28.7	72.8	0.3	97.6	0.69	
LOCATION MEAN:		103.4	5.6	53.0	682.5	164.9	29.8	75.6	0.3	96.9	0.84	
CHECK'S MEAN:		99.0	5.3	52.6	677.1	164.5	28.7	72.9	0.2	97.9	0.68	
CV %		10.8	10.8	1.0	1.0	0.7	4.1	4.1	168.1	9.0		
LSD (.05)		18.2	1.0	0.9	11.4	2.0	2.0	5.1	0.7	1.4		
# Reps		3	3	3	3	3	3	3	3	3	3	