

2017 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

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

2017 Western Regional Spring Barley Nursery							
Seed	Entry					Years	
Source	No.	Entry	Parentage	Type	Grade	Tested	Cooperator
WSU	1	Step toe	CI 15229	6 row	feed		Check, Ulrich, Wood
USDA-ARS	2	Baronesse	PI 568246	2 row	feed		Check
USDA-ARS	3	Harrington		2 row	Malt		Check
USDA-ARS	4	AC Metcalfe		2 row	Malt		Check, Beattie
BARI	5	2B10-4162		2 row	Malt	1	Heward
BARI	6	2B10-4378	2B99-2763-10 / 2B03-3669 // 2B05-0822 / 2B99-2763-10	2 row	Malt	3	Heward
BARI	7	2B11-4949	MERIT 57 / MT050118	2 row	Malt	3	Heward
BARI	8	2B11-5166	2B03-3604 / 2B06-1161	2 row	Malt	3	Heward
BARI	9	2B12-5582	2B05-0728 / 2B06-0929	2 row	Malt	2	Heward
USDA-ARS	10	2Ab09-X06F058HL-31	02HR4590/CDC Fibar	2 row	hulless, Food	3	HU
USDA-ARS	11	08ARS112-75	Lenetah / Newdale // 2B02-2925	2 row	Malt	2	HU
USDA-ARS	12	08ARS116-91	MT010158 / Tetonia // Voyager	2 row	Malt	2	HU
USDA-ARS	13	08ARS028-20	2Ab04-X01084-27 / Newdale	2 row	Malt	1	HU
USDA-ARS	14	* 10ARS191-3	Tetonia / MT010160 // 2Ab07-X04M281-32	2 row	Malt	0	HU
MSU	15	* MT124112		2 row	Feed/Malt	0	Sherman
MSU	16	* MT124128		2 row	Feed/Malt	0	Sherman
MSU	17	* MT124134		2 row	Feed/Malt	0	Sherman
MSU	18	* MT124677		2 row	Feed/Malt	0	Sherman
MSU	19	MT090190		2 row	Feed/Malt	1	Sherman
WSU	20	11WA-107.58	Farmington/Baronesse//Bob/Merit	2 row	Feed/Malt	1	Murphy, Wood
WSU	21	11WA-107.43	Farmington/Baronesse//Bob/Merit	2 row	Feed/Malt	1	Murphy, Wood
WSU	22	12WA-120.14	WA 10701-99/NZDK 00-131//AC Metcalfe	2 row	Feed/Malt	1	Murphy, Wood
WSU	23	10WA-106.18	YU501-385/02WZN-1095	2 row	Feed/Malt	2	Murphy, Wood
WSU	24	10WA-117.17	Radiant/Baronesse/3/WA 10701-99//Baronesse/Harrington (X0	2 row	Feed/Malt	1	Murphy, Wood
USK	25	* CDC Bow	SM04261/TR05285	2 row	Malt	0	Beattie, Duncan
USK	26	* CDC Fraser	TR04280/SM04261	2 row	Malt	0	Beattie, Duncan
USU	27	UTSB10902-91	WA 641566/Short_2*2//Cooper/3/Century/IdagoldII	6 row	feed	1	Hole
USU	28	UTSB10905-72	Century/IdagoldII//Goldeneye	6 row	feed	1	Hole
NDSU	29	* 2ND32529	2ND27705/2ND27560	2 row	Malt	0	Horsley
NDSU	30	* 2ND33760	2ND28065/2ND28086	2 row	Malt	0	Horsley
HSG	31	* BZ512-220	CDC Meredith/Xena	2 row	feed	0	McKay
HSG	32	* BZ512-282	Xena/CDC Coalition	2 row	feed	0	McKay
* new entries							

2015-17 Western Regional Spring Barley Nursery Mean Data

Ent #	Entry	Yield (Bu/A)			TWT (lbs/Bu)			Heading (Julian)			Height (inch)			Plump >6/64 (%)			Protein (%)		
		2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017
1	Stephoe	95.0	91.7	96.6	48.3	48.7	47.0	170.2	170.7	175.3	30.7	30.1	28.6	91.6	92.7	85.1	11.9	11.9	11.0
2	Baronesse	102.5	105.3	107.0	52.0	52.2	51.1	173.7	175.3	180.0	29.0	28.6	28.3	88.5	86.3	86.1	12.8	12.5	12.2
3	Harrington	93.0	91.8	97.4	50.9	50.9	50.6	173.8	175.4	180.6	30.6	30.3	30.9	89.3	88.4	80.7	13.0	12.8	13.3
4	AC Metcalfe	91.7	93.3	94.1	51.8	51.8	51.3	173.8	175.0	179.3	31.5	31.4	31.5	88.2	87.0	85.6	13.0	12.4	12.9
5	2B10-4162		104.4	106.3		51.7	50.4		175.3	178.8		28.9	28.2		79.5	74.8		13.0	12.5
6	2B10-4378	99.3	98.6	106.8	51.5	51.3	51.3	173.6	175.1	177.9	28.4	28.3	27.7	86.2	84.6	83.9	12.4	11.9	12.2
7	2B11-4949	103.8	101.8	106.0	50.9	50.5	50.4	174.1	175.9	179.9	28.2	27.7	28.4	87.4	85.7	82.8	12.6	12.4	12.7
8	2B11-5166	101.0	98.4	105.2	50.6	50.3	49.1	173.5	174.9	177.7	29.6	29.5	29.0	88.1	85.9	81.3	12.6	12.4	12.7
9	2B12-5582	97.5	98.3	102.9	51.0	50.7	50.1	173.3	174.6	177.8	30.0	29.3	28.3	90.6	89.5	85.5	13.4	13.1	13.2
10	2Ab09-X06F058HL-31	75.6	80.0	84.8	54.9	54.9	56.1	175.7	176.5	179.6	29.6	28.7	28.8	83.3	80.6	76.4	15.2	14.0	14.7
11	08ARS112-75	107.5	109.9	115.0	51.4	51.4	49.9	173.4	174.8	178.4	30.5	30.7	29.4	87.1	83.6	82.6	12.5	12.3	12.1
12	08ARS116-91	94.2	96.8	102.0	51.2	51.0	50.4	172.5	174.0	177.4	29.4	28.8	28.7	88.2	86.8	86.5	12.8	12.6	12.5
13	08ARS028-20		98.7	104.1	51.0	51.0	50.1		176.4	181.0		28.5	28.0		83.2	82.4		12.0	12.2
14	10ARS191-3			110.3			50.8			180.2			31.4			80.8			12.3
15	MT124112			104.3			51.6			177.3			28.0			92.7			11.2
16	MT124128			99.4			52.7			175.6			27.1			95.4			11.3
17	MT124134			97.1			52.9			175.1			28.0			95.7			11.4
18	MT124677			99.5			52.4			177.5			26.9			92.5			11.3
19	MT090190		100.1	100.8		53.3	51.7		176.0	178.8		31.0	29.8		90.4	90.3		11.4	11.6
20	11WA-107.58		107.5	108.8		54.4	53.6		174.9	179.6		30.1	30.2		93.0	92.1		12.4	12.6
21	11WA-107.43		105.0	106.1		53.3	53.2		173.9	179.0		28.9	29.5		89.0	88.2		12.4	12.5
22	12WA-120.14		95.3	100.4		51.2	49.9		175.6	180.5		30.5	30.9		89.3	87.2		13.1	13.2
23	10WA-106.18	103.8	102.5	105.2	52.4	52.5	51.8	173.0	174.7	178.5	30.6	30.4	30.1	86.9	85.7	80.4	12.3	12.3	12.0
24	10WA-117.17		95.1	97.5		51.3	50.8		174.2	180.5		30.3	31.6		85.1	82.6		12.0	12.4
25	CDC Bow			86.7			49.9			181.7			30.3			88.4			12.6
26	CDC Fraser			93.7			48.9			180.9			28.6			88.0			12.9
27	UTSB10902-91		104.3	106.4		48.6	47.7		171.8	176.2		31.6	30.7		90.6	86.0		12.1	11.4
28	UTSB10905-72		105.1	110.1		49.7	49.0		171.3	175.4		31.5	30.9		94.6	92.1		12.1	12.1
29	2ND32529			98.2			50.8			177.2			29.2			90.8			11.2
30	2ND33760			99.5			51.6			177.3			30.7			89.3			11.9
31	BZ512-220			98.3			48.4			181.2			29.1			77.2			12.4
32	BZ512-282			106.5			50.3			178.0			29.0			76.0			11.9
MEAN:		100.5	99.7	101.8	51.7	51.7	50.7	173.4	174.8	178.6	30.2	30.1	29.3	88.7	87.8	85.6	12.7	12.4	12.3
CHECK'S MEAN:		95.5	95.5	98.8	50.8	50.9	50.1	172.9	174.1	178.8	30.5	30.1	29.8	89.4	88.6	84.4	12.6	12.4	12.3
Observations:		15	12	11	15	10	9	12	8	8	14	9	9	12	7	8	6	3	5

2015-17 Western Regional Spring Barley Nursery Mean Data (Metric)

Ent #	Entry	Yield (Mg/Ha)			Test Weight (kg/m ³)			Heading (Julian)			Height (cm)			Plump (>2.4mm)			Protein (%)		
		2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017
1	Step toe	5.11	4.93	5.20	622.2	626.9	604.5	170.2	170.7	175.3	78.0	76.5	72.7	91.6	92.7	85.1	11.9	11.9	11.0
2	Baronesse	5.51	5.67	5.75	669.0	671.9	658.2	173.7	175.3	180.0	73.7	72.6	71.9	88.5	86.3	86.1	12.8	12.5	12.2
3	Harrington	5.00	4.94	5.24	655.5	655.2	650.7	173.8	175.4	180.6	77.7	77.0	78.5	89.3	88.4	80.7	13.0	12.8	13.3
4	AC Metcalfe	4.93	5.02	5.06	666.3	666.8	660.3	173.8	175.0	179.3	80.1	79.8	80.0	88.2	87.0	85.6	13.0	12.4	12.9
5	2B10-4162		5.62	5.72		665.5	649.3		175.3	178.8		73.4	71.6		79.5	74.8		13.0	12.5
6	2B10-4378	5.34	5.30	5.75	662.7	660.3	660.9	173.6	175.1	177.9	72.2	71.9	70.4	86.2	84.6	83.9	12.4	11.9	12.2
7	2B11-4949	5.58	5.48	5.70	654.6	650.0	649.1	174.1	175.9	179.9	71.5	70.4	72.1	87.4	85.7	82.8	12.6	12.4	12.7
8	2B11-5166	5.43	5.29	5.66	651.7	647.5	632.5	173.5	174.9	177.7	75.1	74.9	73.8	88.1	85.9	81.3	12.6	12.4	12.7
9	2B12-5582	5.24	5.29	5.54	657.0	652.6	645.2	173.3	174.6	177.8	76.3	74.4	71.8	90.6	89.5	85.5	13.4	13.1	13.2
10	2Ab09-X06F058HL-31	4.07	4.30	4.56	706.5	706.7	721.6	175.7	176.5	179.6	75.1	72.9	73.1	83.3	80.6	76.4	15.2	14.0	14.7
11	08ARS112-75	5.78	5.91	6.19	661.6	661.6	643.0	173.4	174.8	178.4	77.6	78.0	74.8	87.1	83.6	82.6	12.5	12.3	12.1
12	08ARS116-91	5.06	5.21	5.49	658.8	656.5	649.1	172.5	174.0	177.4	74.6	73.2	72.9	88.2	86.8	86.5	12.8	12.6	12.5
13	08ARS028-20		5.31	5.60		656.5	645.3		176.4	181.0		72.4	71.1		83.2	82.4		12.0	12.2
14	10ARS191-3			5.94			654.0			180.2			79.8			80.8			12.3
15	MT124112			5.61			663.7			177.3			71.1			92.7			11.2
16	MT124128			5.35			678.4			175.6			68.8			95.4			11.3
17	MT124134			5.22			681.1			175.1			71.1			95.7			11.4
18	MT124677			5.35			674.9			177.5			68.2			92.5			11.3
19	MT090190		5.39	5.42		686.1	665.9		176.0	178.8		78.7	75.7		90.4	90.3		11.4	11.6
20	11WA-107.58		5.78	5.85		700.2	689.5		174.9	179.6		76.5	76.7		93.0	92.1		12.4	12.6
21	11WA-107.43		5.65	5.71		686.1	684.5		173.9	179.0		73.4	75.0		89.0	88.2		12.4	12.5
22	12WA-120.14		5.13	5.40		659.0	641.9		175.6	180.5		77.5	78.4		89.3	87.2		13.1	13.2
23	10WA-106.18	5.58	5.51	5.66	673.9	675.8	666.8	173.0	174.7	178.5	77.7	77.2	76.4	86.9	85.7	80.4	12.3	12.3	12.0
24	10WA-117.17		5.12	5.25		660.3	653.9		174.2	180.5		77.0	80.2		85.1	82.6		12.0	12.4
25	CDC Bow			4.67			642.5			181.7			76.9			88.4			12.6
26	CDC Fraser			5.04			629.6			180.9			72.7			88.0			12.9
27	UTSB10902-91		5.61	5.72		625.6	613.9		171.8	176.2		80.3	77.9		90.6	86.0		12.1	11.4
28	UTSB10905-72		5.65	5.92		639.7	630.5		171.3	175.4		80.0	78.6		94.6	92.1		12.1	12.1
29	2ND32529			5.29			654.0			177.2			74.2			90.8			11.2
30	2ND33760			5.35			664.3			177.3			78.0			89.3			11.9
31	BZ512-220			5.29			622.9			181.2			74.0			77.2			12.4
32	BZ512-282			5.73			648.1			178.0			73.7			76.0			11.9
MEAN:		5.40	5.36	5.47	665.6	665.7	652.2	173.4	174.8	178.6	77.0	77.0	74.4	88.7	87.8	85.6	12.7	12.4	12.3
CHECK'S MEAN:		5.14	5.14	5.31	653.2	655.2	644.9	172.9	174.1	178.8	77.4	76.5	75.8	89.4	88.6	84.4	12.6	12.4	12.3
Observations:		15	12	11	15	10	9	12	8	8	14	9	9	12	7	8	6	3	5

2017 Western Regional Spring Barley Nursery Mean Data All Locations

Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein	BG
		Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm	%	%
1	Step toe	96.6	5.195	47.0	604.5	175.3	28.6	72.7	0.7	85.1	8.8	11.0	4.8
2	Baronesse	107.0	5.755	51.1	658.2	180.0	28.3	71.9	0.9	86.1	10.0	12.2	3.7
3	Harrington	97.4	5.240	50.6	650.7	180.6	30.9	78.5	0.7	80.7	16.1	13.3	3.8
4	AC Metcalfe	94.1	5.063	51.3	660.3	179.3	31.5	80.0	0.4	85.6	11.0	12.9	3.6
5	2B10-4162	106.3	5.721	50.4	649.3	178.8	28.2	71.6	0.5	74.8	15.7	12.5	3.7
6	2B10-4378	106.8	5.746	51.3	660.9	177.9	27.7	70.4	0.6	83.9	11.2	12.2	4.0
7	2B11-4949	106.0	5.700	50.4	649.1	179.9	28.4	72.1	0.2	82.8	13.4	12.7	3.4
8	2B11-5166	105.2	5.660	49.1	632.5	177.7	29.0	73.8	0.9	81.3	11.2	12.7	3.9
9	2B12-5582	102.9	5.538	50.1	645.2	177.8	28.3	71.8	0.3	85.5	8.3	13.2	3.9
10	2Ab09-X06F058HL-31	84.8	4.562	56.1	721.6	179.6	28.8	73.1	0.5	76.4	15.0	14.7	9.1
11	08ARS112-75	115.0	6.186	49.9	643.0	178.4	29.4	74.8	0.9	82.6	12.7	12.1	3.6
12	08ARS116-91	102.0	5.490	50.4	649.1	177.4	28.7	72.9	0.6	86.5	9.8	12.5	3.6
13	08ARS028-20	104.1	5.600	50.1	645.3	181.0	28.0	71.1	0.5	82.4	13.0	12.2	3.6
14	10ARS191-3	110.3	5.935	50.8	654.0	180.2	31.4	79.8	0.3	80.8	16.9	12.3	3.9
15	MT124112	104.3	5.609	51.6	663.7	177.3	28.0	71.1	0.1	92.7	4.6	11.2	3.9
16	MT124128	99.4	5.348	52.7	678.4	175.6	27.1	68.8	0.1	95.4	3.5	11.3	3.3
17	MT124134	97.1	5.225	52.9	681.1	175.1	28.0	71.1	0.1	95.7	3.2	11.4	3.7
18	MT124677	99.5	5.354	52.4	674.9	177.5	26.9	68.2	0.0	92.5	5.4	11.3	4.2
19	MT090190	100.8	5.424	51.7	665.9	178.8	29.8	75.7	0.1	90.3	7.1	11.6	4.1
20	11WA-107.58	108.8	5.854	53.6	689.5	179.6	30.2	76.7	0.2	92.1	6.5	12.6	4.1
21	11WA-107.43	106.1	5.708	53.2	684.5	179.0	29.5	75.0	0.0	88.2	8.0	12.5	3.0
22	12WA-120.14	100.4	5.403	49.9	641.9	180.5	30.9	78.4	1.2	87.2	10.3	13.2	3.1
23	10WA-106.18	105.2	5.661	51.8	666.8	178.5	30.1	76.4	1.0	80.4	13.9	12.0	4.3
24	10WA-117.17	97.5	5.247	50.8	653.9	180.5	31.6	80.2	1.5	82.6	12.5	12.4	3.9
25	CDC Bow	86.7	4.666	49.9	642.5	181.7	30.3	76.9	0.2	88.4	9.1	12.6	3.5
26	CDC Fraser	93.7	5.042	48.9	629.6	180.9	28.6	72.7	0.5	88.0	9.4	12.9	3.6
27	UTSB10902-91	106.4	5.725	47.7	613.9	176.2	30.7	77.9	0.6	86.0	9.7	11.4	5.1
28	UTSB10905-72	110.1	5.922	49.0	630.5	175.4	30.9	78.6	0.2	92.1	4.7	12.1	4.1
29	2ND32529	98.2	5.285	50.8	654.0	177.2	29.2	74.2	0.1	90.8	5.6	11.2	3.0
30	2ND33760	99.5	5.350	51.6	664.3	177.3	30.7	78.0	0.9	89.3	7.1	11.9	3.2
31	BZ512-220	98.3	5.291	48.4	622.9	181.2	29.1	74.0	0.7	77.2	15.9	12.4	3.3
32	BZ512-282	106.5	5.732	50.3	648.1	178.0	29.0	73.7	0.5	76.0	15.7	11.9	3.3
MEAN:		101.8	5.5	50.7	652.2	178.6	29.3	74.4	0.5	85.6	10.2	12.3	3.9
CHECK'S MEAN:		98.8	5.3	50.1	644.9	178.8	29.8	75.8	0.7	84.4	11.5	12.3	4.0
Observations:		11	11	9	9	8	9	9	6	8	6	5	2

2017 Western Regional Spring Barley Nursery

Cooperator: <i>Kirk Broder & Tyler Thompson</i>				Location: Center, CO				No. of Reps: 3			
Harvest Plot Area (sq.ft.): 100-115				Seed Date: 4/14/2017				Harvest Date: 8/30/17			
Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm
1	Step toe	94.3	5.073								
2	Baronesse	114.7	6.172								
3	Harrington	103.4	5.564								
4	AC Metcalfe	99.3	5.342								
5	2B10-4162	101.6	5.464								
6	2B10-4378	121.9	6.559								
7	2B11-4949	99.9	5.373								
8	2B11-5166	127.7	6.872								
9	2B12-5582	97.4	5.238								
10	2Ab09-X06F058HL-31	143.7	7.732								
11	08ARS112-75	157.2	8.459								
12	08ARS116-91	116.3	6.259								
13	08ARS028-20	107.9	5.807								
14	10ARS191-3	120.9	6.504								
15	MT124112	167.5	9.010								
16	MT124128	138.3	7.440								
17	MT124134	116.0	6.243								
18	MT124677	119.1	6.405								
19	MT090190	127.1	6.837								
20	11WA-107.58	98.0	5.270								
21	11WA-107.43	82.3	4.427								
22	12WA-120.14	111.6	6.002								
23	10WA-106.18	91.5	4.920								
24	10WA-117.17	102.0	5.485								
25	CDC Bow	92.2	4.958								
26	CDC Fraser	85.5	4.598								
27	UTSB10902-91	97.9	5.269								
28	UTSB10905-72	95.2	5.122								
29	2ND32529	97.7	5.256								
30	2ND33760	96.3	5.182								
31	BZ512-220	96.1	5.171								
32	BZ512-282	98.4	5.291								
MEAN:		109.2	5.9								
CHECK'S MEAN:		102.9	5.5								
CV %											
LSD (.05)		11.4	0.6								
Observations:		3	3								

2017 Western Regional Spring Barley Nursery

Cooperator: Gongshe Hu		Location: Aberdeen, ID										No. of Reps: 3	
Harvest Plot Area (sq.ft.): 50		Seed Date: 4/12/2017										Harvest Date: 8/11/2017	
Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein	BG
		Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm	%	%
1	Step toe	144.3	7.763	50.0	643.6	163.0	33.0	83.8	3.7	91.0		8.69	5.15
2	Baronesse	173.9	9.356	53.8	692.5	166.3	34.7	88.1	1.0	95.2		8.63	4.02
3	Harrington	153.5	8.258	53.5	688.6	166.7	33.7	85.6	2.0	96.4		9.76	3.95
4	AC Metcalfe	151.1	8.129	53.7	691.2	167.7	37.7	95.8	2.3	97.0		8.89	3.91
5	2B10-4162	146.6	7.887	52.6	677.1	166.7	30.7	78.0	0.7	87.0		9.43	4.07
6	2B10-4378	168.3	9.055	53.9	693.8	165.0	32.0	81.3	3.3	94.8		10.76	4.40
7	2B11-4949	166.0	8.931	52.5	675.8	166.3	31.7	80.5	0.3	95.0		9.66	4.13
8	2B11-5166	162.2	8.726	52.0	669.3	165.7	33.0	83.8	1.3	94.2		9.67	4.27
9	2B12-5582	159.7	8.592	52.7	678.3	167.0	33.0	83.8	1.7	96.6		10.05	4.36
10	2Ab09-X06F058HL-31	120.5	6.483	58.3	750.4	166.0	33.0	83.8	2.7	87.5		12.69	8.88
11	08ARS112-75	166.4	8.952	53.4	687.4	165.0	36.3	92.2	3.3	94.1		10.22	3.92
12	08ARS116-91	161.6	8.694	53.5	688.6	165.3	32.0	81.3	1.0	93.9		9.48	4.10
13	08ARS028-20	173.6	9.340	53.4	687.4	167.3	33.0	83.8	0.7	95.3		9.59	3.84
14	10ARS191-3	178.6	9.609	53.9	693.8	166.3	37.0	94.0	1.7	91.8		9.71	4.72
15	MT124112	143.8	7.737	51.0	656.5	164.7	32.0	81.3	0.0	96.1		8.83	4.31
16	MT124128	160.4	8.630	52.8	679.6	156.7	31.0	78.7	0.0	98.1		9.78	3.93
17	MT124134	148.5	7.989	52.9	680.9	156.3	32.3	82.0	0.3	97.5		9.27	4.48
18	MT124677	148.8	8.006	53.0	682.2	165.3	29.7	75.4	0.0	97.2		9.14	4.52
19	MT090190	154.3	8.301	52.9	680.9	166.3	35.0	88.9	0.0	97.7		9.37	4.56
20	11WA-107.58	168.0	9.039	54.7	704.1	164.7	34.3	87.1	0.7	97.7		9.48	4.45
21	11WA-107.43	159.4	8.576	54.2	697.7	166.7	32.7	83.1	0.0	96.9		9.71	3.61
22	12WA-120.14	163.9	8.818	53.3	686.1	167.0	37.3	94.7	1.0	96.4		9.47	3.25
23	10WA-106.18	160.8	8.651	53.5	688.6	166.3	37.0	94.0	2.3	93.5		9.75	4.75
24	10WA-117.17	140.6	7.564	52.5	675.8	167.3	37.3	94.7	3.7	94.3		9.22	4.36
25	CDC Bow	152.9	8.226	52.1	670.6	168.3	37.7	95.8	0.3	97.5		9.92	3.62
26	CDC Fraser	147.6	7.941	51.5	662.9	168.0	34.7	88.1	0.7	97.6		10.79	4.05
27	UTSB10902-91	178.0	9.577	50.1	644.9	160.7	35.3	89.7	3.0	93.3		9.16	5.40
28	UTSB10905-72	181.4	9.759	51.0	656.5	162.3	35.0	88.9	0.0	96.3		9.00	4.69
29	2ND32529	158.2	8.511	51.6	664.2	164.7	34.0	86.4	0.0	97.8		8.89	3.83
30	2ND33760	159.3	8.570	53.3	686.1	165.0	36.3	92.2	3.0	96.2		9.23	3.66
31	BZ512-220	173.9	9.356	52.2	671.9	169.0	35.0	88.9	1.0	90.2		9.25	3.57
32	BZ512-282	176.3	9.485	52.2	671.9	167.7	32.7	83.1	0.7	91.2		8.61	3.55
MEAN:		159.5	8.6	52.9	680.6	165.4	34.1	86.5	1.3	94.9		9.57	4.32
CHECK'S MEAN:		155.7	8.4	52.8	679.0	165.9	34.8	88.3	2.3	94.9		8.99	4.26
CV %		6.6	6.6			0.9	4.9	4.9	104.5				
LSD (.05)		14.3	0.8			2.0	2.3	5.8	1.9				
Observations:		3	3	Bulk		3	3	3	3	Bulk		Bulk	Bulk

2017 Western Regional Spring Barley Nursery

Cooperator: Gongshe Hu		Location: Tetonia, ID								No. of Reps: 3			
Harvest Plot Area (sq.ft.): 50		Seed Date: 5/9/2017								Harvest Date: 9/7/2016			
Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein	BG
		Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm	%	%
1	Steptoe	68.6	3.691	46.9	603.7					69.7		11.33	4.39
2	Baronesse	70.5	3.793	51.4	661.6					81.6		12.26	3.38
3	Harrington	71.0	3.820	50.6	651.3					79.8		13.58	3.73
4	AC Metcalfe	72.8	3.917	49.5	637.2					76.8		13.40	3.21
5	2B10-4162	75.7	4.073	49.8	641.0					56.7		12.67	3.34
6	2B10-4378	60.7	3.266	51.3	660.3					73.1		12.07	3.61
7	2B11-4949	76.1	4.094	51.0	656.5					72.5		12.40	2.70
8	2B11-5166	65.9	3.545	48.3	621.7					54.2		14.28	3.60
9	2B12-5582	67.5	3.632	49.3	634.6					55.8		13.86	3.37
10	2Ab09-X06F058HL-31	63.3	3.406	60.2	774.9					62.9		15.49	9.23
11	08ARS112-75	69.2	3.723	49.9	642.3					70.1		11.51	3.37
12	08ARS116-91	72.6	3.906	50.4	648.7					80.8		12.35	3.11
13	08ARS028-20	69.1	3.718	49.3	634.6					75.5		11.71	3.29
14	10ARS191-3	83.9	4.514	52.6	677.1					83.6		12.41	3.14
15	MT124112	76.1	4.094	50.7	652.6					88.6		11.33	3.44
16	MT124128	76.7	4.127	53.1	683.5					93.5		11.36	2.74
17	MT124134	78.2	4.207	53.8	692.5					95.3		11.73	2.91
18	MT124677	70.5	3.793	53.5	688.6					90.9		11.89	3.82
19	MT090190	70.4	3.788	52.2	671.9					86.1		11.90	3.56
20	11WA-107.58	77.6	4.175	54.4	700.2					90.5		12.72	3.76
21	11WA-107.43	78.5	4.223	52.2	671.9					74.2		12.02	2.45
22	12WA-120.14	81.9	4.406	51.3	660.3					90.0		12.38	2.87
23	10WA-106.18	79.6	4.283	52.3	673.2					69.7		12.14	3.75
24	10WA-117.17	77.6	4.175	50.7	652.6					77.4		13.31	3.44
25	CDC Bow	58.6	3.153	50.5	650.0					85.1		12.54	3.47
26	CDC Fraser	58.6	3.153	49.2	633.3					80.0		13.13	3.23
27	UTSB10902-91	65.0	3.497	47.6	612.7					67.3		11.62	4.87
28	UTSB10905-72	78.8	4.239	48.3	621.7					73.5		12.06	3.48
29	2ND32529	80.8	4.347	51.2	659.0					81.0		10.90	2.25
30	2ND33760	69.5	3.739	50.5	650.0					80.7		11.80	2.83
31	BZ512-220	59.5	3.201	48.5	624.3					67.8		12.34	3.01
32	BZ512-282	68.9	3.707	50.5	650.0					59.5		11.17	3.13
MEAN:		71.7	3.9	51.0	656.1					76.4		12.36	3.52
CHECK'S MEAN:		70.7	3.8	49.6	638.4					77.0		12.64	3.68
CV %		12.2	12.2										
LSD (.05)		11.9	0.6										
Observations:		3	3	Bulk	Bulk					Bulk		Bulk	Bulk

2017 Western Regional Spring Barley Nursery

Cooperator: <i>MSU -Sherman/Elmore</i>				Location: Bozeman, MT						No. of Reps: 3		
Harvest Plot Area (sq.ft.): 40				Seed Date: 5/6/16						Harvest Date: 8/18/16		
		YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein
Ent #	Entry	Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm	%
1	Step toe	99.1	5.332	49.1	632.0	181.0	25.7	65.2	0.0	84.1	12.1	11.2
2	Baronesse	96.0	5.165	53.0	682.6	183.0	24.7	62.8	0.0	83.1	13.1	13.1
3	Harrington	95.1	5.116	52.7	677.7	186.0	26.8	68.0	0.0	83.7	11.8	14.1
4	AC Metcalfe	80.6	4.336	52.6	677.1	184.0	26.5	67.2	0.0	84.9	11.7	13.4
5	2B10-4162	107.2	5.767	54.2	698.0	186.0	25.0	63.5	0.0	80.2	15.3	13.4
6	2B10-4378	96.6	5.197	54.3	698.6	184.0	24.9	63.2	0.0	88.0	9.5	12.3
7	2B11-4949	95.7	5.149	52.2	671.9	185.7	25.7	65.2	0.0	83.2	12.9	14.2
8	2B11-5166	93.9	5.052	51.4	662.0	184.0	26.0	66.0	0.0	83.7	12.4	13.3
9	2B12-5582	96.8	5.208	52.2	671.5	182.3	26.1	66.2	0.0	85.0	11.6	14.5
10	2Ab09-X06F058HL-31	70.3	3.782	64.0	824.2	186.0	24.4	62.0	0.0	86.2	10.5	15.4
11	08ARS112-75	88.4	4.756	51.7	665.9	185.7	25.1	63.7	0.0	73.6	18.9	12.9
12	08ARS116-91	89.5	4.815	51.8	666.4	183.7	25.7	65.2	0.0	88.6	8.9	13.1
13	08ARS028-20	92.5	4.977	51.7	665.1	185.3	25.3	64.3	0.0	86.8	10.6	12.5
14	10ARS191-3	80.9	4.352	51.9	668.4	186.3	26.2	66.5	0.0	74.4	19.8	12.3
15	MT124112	95.2	5.122	53.7	691.6	183.7	25.7	65.3	0.0	89.4	7.9	11.9
16	MT124128	80.8	4.347	54.4	700.2	182.0	25.3	64.2	0.0	95.7	3.3	11.3
17	MT124134	85.3	4.589	54.7	704.5	182.3	26.8	68.0	0.0	95.7	3.0	12.0
18	MT124677	84.5	4.546	55.2	710.1	183.7	24.6	62.5	0.0	93.3	5.2	11.2
19	MT090190	92.0	4.950	53.3	686.1	182.0	25.7	65.3	0.0	90.1	7.3	12.4
20	11WA-107.58	96.5	5.192	55.1	709.2	185.0	27.4	69.5	0.0	92.1	6.0	13.0
21	11WA-107.43	92.8	4.993	54.7	703.7	184.3	25.9	65.7	0.0	90.6	7.7	13.2
22	12WA-120.14	96.0	5.165	51.1	658.1	186.3	28.2	71.7	0.0	85.5	11.0	15.2
23	10WA-106.18	96.1	5.170	53.3	686.5	185.0	25.4	64.5	0.0	68.7	23.3	12.8
24	10WA-117.17	86.8	4.670	52.7	678.7	187.7	27.6	70.0	0.0	88.1	9.0	12.9
25	CDC Bow	44.5	2.394	50.9	655.2	187.2	24.8	63.0	0.0	79.0	14.2	12.9
26	CDC Fraser	71.5	3.847	51.1	657.4	186.0	25.8	65.5	0.0	88.5	8.2	13.9
27	UTSB10902-91	103.5	5.568	50.5	649.6	183.0	28.5	72.3	0.0	83.3	12.1	11.8
28	UTSB10905-72	100.7	5.418	50.5	649.6	180.3	25.9	65.8	0.0	92.9	6.5	12.7
29	2ND32529	88.9	4.783	52.2	671.9	182.0	25.9	65.7	0.0	89.1	7.9	12.5
30	2ND33760	91.0	4.896	53.6	689.9	181.0	27.6	70.0	0.0	89.3	7.6	12.6
31	BZ512-220	73.0	3.927	49.3	634.2	186.0	23.7	60.3	0.0	70.7	21.2	13.2
32	BZ512-282	100.3	5.396	52.2	672.3	182.3	25.6	65.0	0.0	63.8	23.4	12.7
MEAN:		89.6	4.8	51.8	667.3	184.2	25.9	65.8	0.0	84.6	11.4	12.9
CHECK'S MEAN:		92.7	5.0	52.9	680.4	183.5	25.9	65.8	0.0	84.0	12.2	13.0
CV %		11.9	11.9	2.1	2.1	0.5	0.5	4.6		6.8	33.8	6.6
LSD (.05)		23.2	1.2	2.5	31.5	2.0	2.6	6.6		15.8	10.5	1.9
Observations:		3	3	3	3	3	3	3		3	3	3

2017 Western Regional Spring Barley Nursery

Cooperator: <i>John Rickertsen</i>				Location: Hettinger, ND						No. of Reps: 3		
Harvest Plot Area (sq.ft.): 64				Seed Date: 4/26/17						Harvest Date: 8/1/17		
		YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein
Ent #	Entry	Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm	%
1	Steptoe	45.2	2.430	37.3	480.1	172.0	21.5	54.6	0.0	77.8	22.2	13.6
2	Baronesse	58.8	3.160	42.2	543.1	174.0	20.3	51.6	0.0	68.0	32.0	15.1
3	Harrington	46.9	2.520	40.9	526.4	175.0	23.0	58.4	0.0	37.4	62.6	16.7
4	AC Metcalfe	47.2	2.540	42.3	544.4	175.0	20.5	52.1	0.0	58.3	41.7	16.6
5	2B10-4162	54.4	2.930	41.0	527.7	172.0	19.7	50.0	0.0	47.5	52.5	15.4
6	2B10-4378	50.4	2.710	40.7	523.8	172.0	17.7	45.0	0.0	65.7	34.3	14.7
7	2B11-4949	51.1	2.750	40.9	526.4	173.0	18.5	47.0	0.0	46.7	53.3	16.2
8	2B11-5166	57.0	3.070	40.3	518.7	172.0	21.5	54.6	0.0	63.2	36.8	15.0
9	2B12-5582	52.9	2.840	42.9	552.1	172.0	20.3	51.6	0.0	73.7	26.3	15.1
10	2Ab09-X06F058HL-31	37.3	2.000	44.3	570.1	176.0	21.0	53.3	0.0	42.8	57.2	15.8
11	08ARS112-75	57.2	3.070	37.1	477.5	174.0	20.0	50.8	0.0	60.6	39.4	14.4
12	08ARS116-91	43.0	2.310	42.9	552.1	174.0	18.7	47.5	0.0	65.1	34.9	15.5
13	08ARS028-20	46.5	2.500	42.7	549.5	175.0	18.2	46.2	0.0	51.3	48.7	15.5
14	10ARS191-3	48.8	2.620	38.3	492.9	176.0	21.5	54.6	0.0	31.8	68.2	15.9
15	MT124112	53.9	2.900	46.2	594.6	172.0	20.7	52.6	0.0	89.4	10.6	13.6
16	MT124128	51.6	2.780	47.4	610.0	172.0	18.7	47.5	0.0	92.8	7.2	13.4
17	MT124134	47.8	2.570	48.2	620.3	173.0	21.3	54.1	0.0	92.4	7.6	13.3
18	MT124677	47.0	2.530	43.2	556.0	172.0	19.5	49.5	0.0	86.0	14.0	13.5
19	MT090190	46.6	2.510	44.8	576.6	174.0	20.8	52.8	0.0	76.8	23.2	13.9
20	11WA-107.58	49.6	2.660	46.7	601.0	174.0	19.2	48.8	0.0	75.8	24.2	15.7
21	11WA-107.43	57.9	3.110	48.2	620.3	172.0	20.7	52.6	0.0	71.6	28.4	15.5
22	12WA-120.14	48.3	2.600	38.1	490.3	175.0	21.0	53.3	0.0	64.4	35.6	15.9
23	10WA-106.18	54.1	2.910	44.5	572.7	174.0	20.5	52.1	0.0	57.3	42.7	14.6
24	10WA-117.17	48.7	2.620	43.2	556.0	175.0	21.2	53.8	0.0	51.6	48.4	14.8
25	CDC Bow	45.8	2.460	37.8	486.5	176.0	21.3	54.1	0.0	69.8	30.2	15.4
26	CDC Fraser	49.8	2.680	38.6	496.8	176.0	20.3	51.6	0.0	60.8	39.2	15.5
27	UTSB10902-91	59.4	3.190	40.1	516.1	171.0	21.8	55.4	0.0	71.2	28.8	14.0
28	UTSB10905-72	44.5	2.390	43.7	562.4	171.0	21.5	54.6	0.0	88.7	11.3	15.5
29	2ND32529	53.8	2.890	44.4	571.4	174.0	22.5	57.2	0.0	84.9	15.1	12.9
30	2ND33760	53.6	2.880	44.7	575.3	173.0	21.7	55.1	0.0	80.3	19.7	14.4
31	BZ512-220	43.6	2.340	37.6	483.9	176.0	19.3	49.0	0.0	53.9	46.1	15.8
32	BZ512-282	46.8	2.520	45.4	584.3	172.0	20.0	50.8	0.0	52.8	47.2	16.3
MEAN:		50.0	2.7	42.4	545.6	174.0	20.4	51.9	0.0	65.9	34.1	15.0
CHECK'S MEAN:		49.5	2.7	40.7	523.5	174.0	21.3	54.2	0.0	60.4	39.6	15.5
CV %		12.0	12.0	4.8	4.8	0.4	6.9	6.9	--	7.7	14.9	3.8
LSD (.05)		9.8	0.5	3.3	42.5	1.1	2.3	5.8	--	8.3	8.3	0.9
Observations:		3	3	3	3	3	3	3	3	3	3	3

Optional observations:

Precipitation Apr - Aug 5.58 inches, Oct - Aug 8.86 inches
 Soil Moisture 3 feet at planting
 Previous Crop Forage soybean green fallow
 Soil Type Belfield-Savage-Daglum silt loams
 Soil Analysis 22 lb NO₃-N, 42 lb P, 572 lb K per acre
 pH - 7.1, OM - 3.0%

Comments: Long term no-till, Hettinger was rated at extreme drought (D4) for most of the 2017 growing season.

2017 Western Regional Spring Barley Nursery

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

Location: **Mcville, ND**
Seed Date: **5/6/16**

No. of Reps: **3**
Harvest Date: **NA**

Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN	Stem Breakage
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm	1-5
1	Step toe					177.7	25.8	65.7				3.7
2	Baronesse					185.7	23.7	60.3				3.3
3	Harrington					186.0	29.9	76.0				3.3
4	AC Metcalfe					183.3	32.9	83.7				4.0
5	2B10-4162					184.0	27.1	68.8				2.7
6	2B10-4378					183.3	26.7	67.8				3.0
7	2B11-4949					185.7	27.3	69.3				3.7
8	2B11-5166					180.3	25.5	64.8				2.7
9	2B12-5582					184.3	24.7	62.7				1.7
10	2Ab09-X06F058HL-31					183.7	27.7	70.5				3.3
11	08ARS112-75					183.7	26.1	66.3				2.3
12	08ARS116-91					180.3	27.8	70.5				4.3
13	08ARS028-20					186.7	25.3	64.3				1.7
14	10ARS191-3					184.0	31.3	79.5				3.0
15	MT124112					183.3	25.2	64.2				2.7
16	MT124128					181.0	23.4	59.5				2.0
17	MT124134					181.0	22.4	56.8				2.3
18	MT124677					184.0	24.3	61.7				1.7
19	MT090190					184.0	27.7	70.3				2.3
20	11WA-107.58					185.0	28.9	73.3				3.0
21	11WA-107.43					183.0	28.9	73.3				3.3
22	12WA-120.14					185.3	29.1	74.0				2.7
23	10WA-106.18					183.3	27.2	69.2				3.3
24	10WA-117.17					185.3	32.0	81.3				5.0
25	CDC Bow					187.7	29.4	74.8				2.7
26	CDC Fraser					188.0	25.7	65.2				2.0
27	UTSB10902-91					180.7	26.5	67.3				3.3
28	UTSB10905-72					179.0	31.7	80.5				3.3
29	2ND32529					180.3	27.4	69.7				3.7
30	2ND33760					182.7	29.9	75.8				4.0
31	BZ512-220					186.7	25.8	65.5				1.7
32	BZ512-282					182.3	28.5	72.5				3.3
MEAN:						183.5	27.4	69.5				3.0
CHECK'S MEAN:						183.2	28.1	71.4				3.6
CV %						0.8	10.4	10.4				37.46
LSD (.05)						2.5	4.6	11.8				1.82
Observations:						3	3	3				3

Optional observations:

Precipitation 444.3 mm (17.49") measured by North Dakota Ag Weather Network (NDAWN) at Pekin, ND
Soil Moisture Low (67% of normal precipitation)
Previous Crop Soybean
Soil Type Brantford-Kensal loam
Soil Analysis

Comments †Stem breakage measured at harvest maturity. (1=no stem breakage; 5=all stems completely broken)

2017 Western Regional Spring Barley Nursery

Cooperator: <i>Dr. Richard D. Horsley</i>			Location: Minot, ND			No. of Reps: 3					
Harvest Plot Area (sq.ft.): 40			Seed Date: 5/1/17			Harvest Date: 8/29/17					
Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm
1	Steptoe	90.6	4.872	50.2	645.7	174.3	22.7	57.8			
2	Baronesse	85.9	4.621	53.2	685.1	187.3	21.2	53.8			
3	Harrington	84.1	4.523	53.9	694.1	185.7	26.2	66.5			
4	AC Metcalfe	82.7	4.447	54.4	700.1	180.3	24.6	62.5			
5	2B10-4162	86.4	4.647	50.7	652.1	180.7	22.0	56.0			
6	2B10-4378	91.6	4.928	53.2	685.1	180.0	21.3	54.0			
7	2B11-4949	87.0	4.682	51.8	667.1	185.7	21.5	54.7			
8	2B11-5166	84.2	4.530	48.2	620.8	179.0	23.7	60.2			
9	2B12-5582	85.0	4.575	52.1	670.1	179.3	21.1	53.7			
10	2Ab09-X06F058HL-31	71.5	3.847	51.8	667.1	182.0	23.5	59.8			
11	08ARS112-75	93.3	5.018	50.4	649.1	180.0	23.4	59.5			
12	08ARS116-91	80.0	4.306	49.5	636.7	179.0	21.3	54.2			
13	08ARS028-20	79.8	4.295	50.7	652.1	188.3	21.9	55.7			
14	10ARS191-3	92.4	4.973	51.8	667.1	184.3	26.3	66.7			
15	MT124112	84.9	4.566	54.2	697.1	179.3	22.6	57.3			
16	MT124128	83.5	4.494	55.6	715.1	179.3	21.7	55.2			
17	MT124134	85.4	4.595	55.1	709.1	176.0	22.5	57.3			
18	MT124677	89.9	4.837	55.8	718.2	179.3	22.2	56.5			
19	MT090190	83.9	4.512	53.2	685.1	183.3	24.4	62.0			
20	11WA-107.58	94.8	5.099	56.0	721.2	185.0	23.4	59.3			
21	11WA-107.43	93.1	5.007	56.5	727.2	182.3	23.6	60.0			
22	12WA-120.14	89.4	4.810	52.8	679.1	185.7	24.8	63.0			
23	10WA-106.18	89.4	4.810	52.8	679.1	179.7	23.4	59.5			
24	10WA-117.17	87.9	4.727	53.2	685.1	182.3	25.1	63.7			
25	CDC Bow	81.5	4.386	52.8	679.1	186.0	23.9	60.8			
26	CDC Fraser	84.2	4.530	48.0	617.8	186.7	23.7	60.3			
27	UTSB10902-91	84.8	4.564	48.5	624.6	178.0	24.7	62.8			
28	UTSB10905-72	83.0	4.467	50.9	655.1	175.7	24.9	63.3			
29	2ND32529	89.4	4.810	53.5	688.1	179.7	21.9	55.7			
30	2ND33760	82.2	4.422	55.1	709.1	179.0	23.7	60.3			
31	BZ512-220	84.0	4.521	51.4	661.1	186.0	22.7	57.7			
32	BZ512-282	81.7	4.394	51.8	667.1	180.7	21.2	53.8			
MEAN:		85.9	4.6	52.5	675.3	181.6	23.2	58.9			
CHECK'S MEAN:		85.8	4.6	52.9	681.3	181.9	23.7	60.2			
CV %		7.6	7.6	3.0	3.0	0.9	5.9	5.9			
LSD (.05)		10.6	0.6	2.6	32.9	2.6	2.2	5.7			
Observations:		3	3	3	3	3	3	3			

Optional observations:

Precipitation 145.7 mm (5.74") measured by North Dakota Ag Weather Network (NDAWN) at Minot, ND
 Soil Moisture Low (55% of normal precipitation)
 Previous Crop Soybean
 Soil Type Forman-Aastad loam
 Soil Analysis 139 lbs/A N available 0-24"

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

**Grain moisture (%) recorded using Zurn 150 (Schlingmann) weigh system.

2017 Western Regional Spring Barley Nursery

Cooperator: <i>David Hole</i>				Location: Logan, UT						No. of Reps: 3	
Harvest Plot Area (sq.ft.):				Seed Date:						Harvest Date:	
		YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN
Ent #	Entry	Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm
1	Steptoe	78.8	4.240								
2	Baronesse	82.5	4.436								
3	Harrington	70.7	3.806								
4	AC Metcalfe	62.8	3.377								
5	2B10-4162	76.8	4.130								
6	2B10-4378	74.2	3.992								
7	2B11-4949	74.4	4.001								
8	2B11-5166	69.0	3.710								
9	2B12-5582	75.3	4.049								
10	2Ab09-X06F058HL-31	43.2	2.322								
11	08ARS112-75	79.6	4.283								
12	08ARS116-91	73.6	3.962								
13	08ARS028-20	82.0	4.412								
14	10ARS191-3	77.0	4.143								
15	MT124112	71.9	3.871								
16	MT124128	62.0	3.338								
17	MT124134	65.0	3.495								
18	MT124677	64.7	3.482								
19	MT090190	75.7	4.071								
20	11WA-107.58	84.0	4.518								
21	11WA-107.43	84.1	4.524								
22	12WA-120.14	79.2	4.264								
23	10WA-106.18	88.4	4.756								
24	10WA-117.17	77.0	4.145								
25	CDC Bow	44.1	2.374								
26	CDC Fraser	60.9	3.275								
27	UTSB10902-91	98.2	5.286								
28	UTSB10905-72	102.5	5.514								
29	2ND32529	64.2	3.454								
30	2ND33760	80.3	4.319								
31	BZ512-220	74.1	3.989								
32	BZ512-282	91.8	4.939								
MEAN:		74.6	4.0								
CHECK'S MEAN:		73.7	4.0								
CV %		12.2	12.2								
LSD (.05)		16.8	0.9								
Observations:		3	3								

2017 Western Regional Spring Barley Nursery

Cooperator: <i>Michael McKay</i>		Location: Moses Lake, WA						No. of Reps: 3			
Harvest Plot Area (sq.ft.): 50		Seed Date: 4/20/17						Harvest Date: 8/18/17			
Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm
1	Step toe	128.4	6.909	47.0	604.5		35.0	88.9	0.0	95.3	1.32
2	Baronesse	143.7	7.732	50.1	645.3		32.7	83.0	4.3	86.7	3.76
3	Harrington	118.0	6.347	50.8	653.5		35.3	89.7	2.0	90.4	2.16
4	AC Metcalfe	120.8	6.499	50.8	653.9		37.7	95.7	0.0	92.6	1.48
5	2B10-4162	150.8	8.111	50.4	649.2		33.7	85.5	2.0	84.7	3.40
6	2B10-4378	147.6	7.940	50.9	654.7		33.7	85.5	0.0	89.3	3.24
7	2B11-4949	138.5	7.454	49.5	636.7		34.0	86.4	0.0	93.1	1.52
8	2B11-5166	140.1	7.536	48.1	619.6		34.0	86.4	3.5	83.6	5.04
9	2B12-5582	137.7	7.406	48.1	618.7		34.0	86.4	0.0	95.2	1.08
10	2Ab09-X06F058HL-31	108.0	5.809	56.6	728.5		33.0	83.8	0.0	84.1	4.88
11	08ARS112-75	156.0	8.393	50.3	647.0		34.7	88.1	2.0	91.7	1.88
12	08ARS116-91	124.9	6.720	50.6	651.3		33.3	84.7	2.0	88.3	3.80
13	08ARS028-20	131.6	7.078	48.9	629.9		32.0	81.3	2.0	81.0	4.60
14	10ARS191-3	142.0	7.638	50.7	652.2		37.0	94.0	0.0	92.2	1.88
15	MT124112	116.7	6.278	50.7	652.2		31.3	79.6	0.0	92.8	1.04
16	MT124128	105.5	5.677	50.9	654.7		33.7	85.5	0.0	97.4	0.64
17	MT124134	102.1	5.492	50.7	652.2		31.0	78.7	0.0	97.3	0.80
18	MT124677	118.4	6.369	51.6	664.6		29.3	74.5	0.0	93.4	1.92
19	MT090190	126.2	6.792	51.1	657.8		35.3	89.7	0.0	88.8	2.76
20	11WA-107.58	134.1	7.213	52.9	681.3		36.7	93.1	0.0	94.3	1.20
21	11WA-107.43	130.7	7.033	51.7	665.9		33.0	83.8	0.0	90.3	1.64
22	12WA-120.14	115.4	6.208	46.9	604.1		36.0	91.4	5.7	84.0	5.56
23	10WA-106.18	141.3	7.601	51.1	657.8		36.0	91.4	3.0	90.5	2.28
24	10WA-117.17	112.4	6.050	50.1	644.5		37.3	94.8	5.0	76.1	4.48
25	CDC Bow	108.5	5.839	49.6	638.4		36.0	91.4	0.0	94.2	0.68
26	CDC Fraser	120.8	6.497	48.6	625.1		32.0	81.3	2.0	94.0	1.24
27	UTSB10902-91	125.9	6.772	46.1	593.0		35.7	90.6	0.0	98.6	1.40
28	UTSB10905-72	127.8	6.874	47.0	605.0		33.0	83.8	0.0	98.7	1.28
29	2ND32529	120.4	6.475	50.7	652.6		34.3	87.2	0.0	93.4	0.96
30	2ND33760	129.3	6.955	51.4	661.6		33.0	83.8	2.0	95.4	0.96
31	BZ512-220	127.2	6.844	49.4	635.4		35.7	90.6	3.0	86.6	4.20
32	BZ512-282	139.5	7.504	49.8	640.6		34.0	86.4	2.0	90.8	2.20
MEAN:		127.8	6.9	49.8	641.0		34.2	86.9	1.3	90.8	2.35
CHECK'S MEAN:		127.7	6.9	49.7	639.3		35.2	89.3	1.6	91.3	2.18
CV %		8.1	8.1	5.5	5.5		1.8	1.8			
LSD (.05)		16.9	0.9	3.1	39.9		3.1	7.9			
Observations:		3	3	3	3		3	3	3		

Optional of This was an irrigated site with high fertility and and very good yields. 14 oz. Palisades was applied just after herbicide timing and controlled most lodging we

2017 Western Regional Spring Barley Nursery

Cooperator: <i>Murphy/Wood</i>				Location: Pullman, WA						No. of Reps: 3		
Harvest Plot Area (sq.ft.): 80				Seed Date: 5/7/17						Harvest Date: 8/24/17		
Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN	Protein
		Bu/A	Mg/ha	lbs./Bu	kg/m ³	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm	%
1	Step toe	101.0	5.434	48.3	621.7	176.0	33.0	83.8	0.0	86.0	7.00	10.1
2	Baronesse	130.0	6.994	52.2	671.9	181.0	34.5	87.6	0.0	92.0	4.00	11.8
3	Harrington	116.0	6.241	51.8	666.8	181.0	36.7	93.2	0.0	95.0	4.00	12.3
4	AC Metcalfe	116.0	6.241	54.6	702.8	180.0	36.5	92.7	0.0	95.0	4.00	12.2
5	2B10-4162	127.0	6.833	52.7	678.3	179.0	31.5	80.0	0.0	84.0	6.00	11.8
6	2B10-4378	128.0	6.886	54.1	696.4	177.0	29.5	74.9	0.0	88.0	5.00	11.2
7	2B11-4949	130.0	6.994	52.6	677.1	181.0	31.7	80.5	0.0	94.0	4.00	11.2
8	2B11-5166	124.0	6.671	51.1	657.8	179.0	31.5	80.0	0.0	90.0	6.00	11.4
9	2B12-5582	116.0	6.241	51.7	665.5	178.0	31.5	80.0	0.0	93.0	5.00	12.6
10	2Ab09-X06F058HL-31	90.0	4.842	59.3	763.3	180.0	33.2	84.3	0.0	72.0	8.00	14.3
11	08ARS112-75	148.0	7.963	53.3	686.1	177.0	34.7	88.1	0.0	95.0	4.00	11.5
12	08ARS116-91	129.0	6.940	52.1	670.6	177.0	33.8	85.9	0.0	94.0	4.00	11.8
13	08ARS028-20	121.0	6.510	51.8	666.8	182.0	32.2	81.8	0.0	94.0	4.00	11.8
14	10ARS191-3	132.0	7.102	53.6	689.9	182.0	34.0	86.4	0.0	94.0	4.00	11.0
15	MT124112	112.0	6.026	53.2	684.8	177.0	31.2	79.2	0.0	96.0	4.00	10.1
16	MT124128	105.0	5.649	54.0	695.1	177.0	29.7	75.4	0.0	97.0	4.00	10.7
17	MT124134	111.0	5.972	55.2	710.5	176.0	33.0	83.8	0.0	97.0	3.00	10.5
18	MT124677	112.0	6.026	54.1	696.4	177.0	29.3	74.4	0.0	96.0	3.00	10.9
19	MT090190	97.0	5.219	52.7	678.3	177.0	32.2	81.8	0.0	96.0	4.00	10.4
20	11WA-107.58	136.0	7.317	54.0	695.1	181.0	33.7	85.6	0.0	96.0	4.00	11.9
21	11WA-107.43	139.0	7.478	53.6	689.9	180.0	33.8	85.9	0.0	96.0	4.00	12.3
22	12WA-120.14	110.0	5.918	50.6	651.3	182.0	34.7	88.1	0.0	94.0	4.00	13.1
23	10WA-106.18	120.0	6.456	54.1	696.4	179.0	33.7	85.6	0.0	90.0	4.00	10.9
24	10WA-117.17	122.0	6.564	52.0	669.3	182.0	35.5	90.2	0.0	95.0	4.00	11.8
25	CDC Bow	108.0	5.810	52.1	670.6	184.0	32.5	82.6	0.0	94.0	4.00	12.2
26	CDC Fraser	109.0	5.864	51.5	662.9	180.0	33.2	84.3	0.0	94.0	4.00	11.3
27	UTSB10902-91	125.0	6.725	49.8	641.0	176.0	35.0	88.9	0.0	89.0	6.00	10.6
28	UTSB10905-72	135.0	7.263	51.2	659.0	176.0	35.7	90.7	0.0	95.0	4.00	11.0
29	2ND32529	109.0	5.864	51.6	664.2	177.0	34.0	86.4	0.0	95.0	4.00	10.8
30	2ND33760	120.0	6.456	52.6	677.1	177.0	36.2	91.9	0.0	96.0	4.00	11.6
31	BZ512-220	123.0	6.617	49.6	638.4	183.0	34.7	88.1	0.0	91.0	5.00	11.3
32	BZ512-282	129.0	6.940	52.0	669.3	178.0	33.8	85.9	0.0	88.0	6.00	10.9
MEAN:		119.7	6.4	52.6	677.1	179.0	33.3	84.6	0.0	92.5	4.47	11.5
CHECK'S MEAN:		115.8	6.2	51.7	665.8	179.5	35.2	89.3	0.0	92.0	4.75	11.6
CV %		7.7	7.7	2.2	2.2	0.6	4.8	4.8	0.0	2.6	19.22	3.6
LSD (.05)		15.0	0.8	1.9	23.9	1.7	2.6	6.6	0.0	4.0	1.40	0.7
Observations:		3	3	3	3	3	3	3	3	3	3	3

2017 Western Regional Spring Barley Nursery

Cooperator: <i>University of Wyoming - PREC</i>				Location: Powell, WY				No. of Reps: 3			
Harvest Plot Area (sq.ft.): 95.4				Seed Date: 4/18/17				Harvest Date: 8/18/17			
Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm
1	Steptoe	120.5	6.484	47.5	611.1	170.0	29.2	74.1	0.7	80.9	5.90
2	Baronesse	126.6	6.812	51.9	667.4	170.0	30.0	76.2	0.3	88.6	4.58
3	Harrington	129.1	6.944	51.5	663.0	171.0	31.7	80.4	0.3	92.0	2.87
4	AC Metcalfe	110.5	5.948	51.8	667.1	171.0	32.2	81.7	0.3	90.6	3.43
5	2B10-4162	140.3	7.547	50.8	653.4	170.0	30.3	77.0	0.3	77.3	9.40
6	2B10-4378	135.1	7.267	51.6	664.5	169.3	31.2	79.2	0.3	89.3	4.40
7	2B11-4949	144.4	7.767	51.7	664.9	169.3	31.5	80.0	0.7	92.9	2.73
8	2B11-5166	123.7	6.654	50.1	644.7	169.0	31.2	79.2	0.7	86.9	5.55
9	2B12-5582	138.5	7.449	51.2	658.8	169.3	28.7	72.8	0.3	92.0	2.92
10	2Ab09-X06F058HL-31	110.3	5.936	54.9	707.2	168.3	30.2	76.6	0.3	88.4	3.81
11	08ARS112-75	134.3	7.224	51.1	657.5	169.7	30.2	76.6	0.3	90.3	3.19
12	08ARS116-91	134.3	7.223	51.8	666.2	169.3	33.2	84.2	0.7	88.7	4.62
13	08ARS028-20	137.5	7.398	51.2	658.5	169.3	31.8	80.9	0.0	87.4	4.84
14	10ARS191-3	133.5	7.182	51.3	660.5	170.3	35.2	89.3	0.3	87.1	4.77
15	MT124112	126.1	6.786	51.6	663.6	168.7	28.8	73.2	0.3	96.0	1.48
16	MT124128	128.2	6.895	52.1	671.1	169.0	27.8	70.7	0.7	93.9	2.36
17	MT124134	128.1	6.890	51.4	661.1	168.3	30.0	76.2	0.3	94.3	2.18
18	MT124677	142.5	7.665	52.0	669.0	168.3	30.8	78.3	0.0	92.6	2.67
19	MT090190	136.1	7.321	51.9	668.4	169.3	33.0	83.8	0.3	91.9	3.21
20	11WA-107.58	145.0	7.799	53.2	684.3	169.0	31.7	80.4	0.3	95.6	1.79
21	11WA-107.43	136.1	7.324	53.0	682.8	171.7	32.2	81.7	0.0	92.5	2.65
22	12WA-120.14	114.3	6.151	51.9	668.3	170.0	33.7	85.5	0.7	89.8	3.61
23	10WA-106.18	123.8	6.663	51.7	665.0	168.7	33.3	84.7	0.7	84.5	5.48
24	10WA-117.17	124.2	6.681	51.8	666.7	171.3	32.2	81.7	0.3	89.0	3.89
25	CDC Bow	122.9	6.612	51.2	658.4	169.7	33.2	84.2	0.7	92.1	3.28
26	CDC Fraser	137.2	7.380	50.4	649.2	168.7	31.7	80.4	0.3	93.1	2.52
27	UTSB10902-91	131.6	7.082	49.3	634.0	169.7	34.0	86.4	0.7	93.4	2.37
28	UTSB10905-72	144.4	7.767	49.4	635.6	168.3	32.8	83.4	1.0	93.6	2.99
29	2ND32529	120.6	6.488	50.5	649.9	169.3	31.5	80.0	0.3	90.3	4.47
30	2ND33760	114.4	6.154	52.1	670.3	169.7	33.2	84.2	0.3	89.3	4.28
31	BZ512-220	120.3	6.470	47.4	610.5	169.0	30.7	77.9	0.0	74.9	9.90
32	BZ512-282	127.4	6.852	48.6	625.1	169.7	32.8	83.4	0.3	76.9	10.55
MEAN:		129.4	7.0	51.2	658.7	169.5	31.6	80.1	0.4	89.3	4.13
CHECK'S MEAN:		121.7	6.5	50.7	652.2	170.5	30.8	78.1	0.4	88.0	4.19
CV %											
LSD (.05)		20.3	1.1	1.7	22.3	2.3	1.5	3.8	0.9	4.6	2.10
Observations:		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.00

2017 Western Regional Spring Barley Nursery

Cooperator: <i>Aaron Beattie</i>				Location: Saskatoon, Saskatchewan, Canada					No. of Reps: 3		
Harvest Plot Area (sq.ft.): 48				Seed Date: 4/21/17			Harvest Date: 8/23/17				
Ent #	Entry	YIELD		Test Wt.		HEADING	HEIGHT		LODGING	PLUMP	THIN
		Bu/A	Mg/ha	lbs./Bu	kg/m3	(Julian)	in.	cm	0-10	>2.4mm	<2.2mm
1	Steptoe	91.4	4.920	46.5	598.0	188.3	31.5	80.0		96.0	4.0
2	Baronesse	94.1	5.060	52.4	674.0	193.0	33.0	83.8		93.4	2.4
3	Harrington	83.6	4.500	49.3	635.0	193.3	35.0	88.9		70.8	13.1
4	AC Metcalfe	91.4	4.920	52.0	669.0	193.3	35.0	88.9		90.0	3.8
5	2B10-4162	103.0	5.540	51.8	667.0	192.3	33.5	85.1		80.7	7.7
6	2B10-4378	100.4	5.400	52.1	671.0	192.7	32.5	82.6		83.1	10.7
7	2B11-4949	102.4	5.510	51.7	666.0	192.7	33.5	85.1		85.3	6.1
8	2B11-5166	109.5	5.890	52.7	678.0	192.7	35.0	88.9		94.4	1.4
9	2B12-5582	105.8	5.690	51.0	657.0	190.3	35.0	88.9		92.9	2.6
10	2Ab09-X06F058HL-31	74.7	4.020	55.1	709.0	195.0	33.0	83.8		86.9	5.7
11	08ARS112-75	115.4	6.210	52.4	674.0	192.0	34.5	87.6		85.1	8.7
12	08ARS116-91	97.6	5.250	51.4	661.0	190.3	32.5	82.6		92.6	2.6
13	08ARS028-20	103.5	5.570	51.6	664.0	194.0	32.0	81.3		87.7	5.4
14	10ARS191-3	123.6	6.650	53.1	684.0	192.7	34.5	87.6		91.7	3.0
15	MT124112	98.7	5.310	52.8	680.0	190.0	34.5	87.6		93.4	2.8
16	MT124128	101.3	5.450	54.1	696.0	188.0	32.5	82.6		94.6	3.4
17	MT124134	100.9	5.430	54.3	699.0	188.0	32.5	82.6		95.8	2.6
18	MT124677	97.4	5.240	53.5	689.0	190.0	32.0	81.3		90.5	5.4
19	MT090190	99.6	5.360	53.5	688.0	194.7	34.0	86.4		94.8	2.2
20	11WA-107.58	113.6	6.110	55.1	709.0	192.7	36.5	92.7		94.6	1.8
21	11WA-107.43	113.2	6.090	54.5	701.0	192.3	35.0	88.9		93.1	3.6
22	12WA-120.14	94.6	5.090	52.8	679.0	193.0	33.0	83.8		93.4	2.2
23	10WA-106.18	112.5	6.050	53.0	682.0	192.3	34.0	86.4		89.1	5.9
24	10WA-117.17	93.7	5.040	51.0	656.0	193.3	36.0	91.4		89.7	5.2
25	CDC Bow	95.0	5.110	52.4	674.0	195.0	33.5	85.1		95.8	2.4
26	CDC Fraser	105.9	5.700	51.4	661.0	193.7	30.5	77.5		96.0	1.2
27	UTSB10902-91	101.1	5.440	47.3	609.0	190.3	34.5	87.6		92.3	7.7
28	UTSB10905-72	117.7	6.330	48.9	630.0	190.3	38.0	96.5		97.8	2.2
29	2ND32529	97.8	5.260	51.7	665.0	190.3	31.5	80.0		95.2	1.4
30	2ND33760	98.1	5.280	51.2	659.0	191.3	35.0	88.9		87.2	6.1
31	BZ512-220	107.1	5.760	50.2	646.0	194.0	34.5	87.6		82.2	8.9
32	BZ512-282	111.9	6.020	50.7	652.0	191.0	32.5	82.6		85.0	4.9
MEAN:		101.9	5.5	51.9	668.2	192.0	33.8	85.8		90.3	4.6
CHECK'S MEAN:		90.1	4.9	50.0	644.0	192.0	33.6	85.4		87.5	5.8
CV %		3.9	3.9	0.3	3.8	0.3	1.8	4.7		6.3	61.82
LSD (.05)		8.7	0.5	0.0	0.0	1.2	0.0	0.0		0.0	0.00
Observations:		3	3	1	1	3	1	1		1	1