

**2019 OVERALL AGRONOMIC SUMMARY FOR SPRING WHEAT OFF-STATION NURSERY GROWN IN 15 ENVIRONMENTS,
INCLUDING 13 DRYLAND AND 2 IRRIGATED ENVIRONMENTS ACROSS MONTANA**

LINE	VARIETY / PEDIGREE	YIELD (BU/AC)			GRAIN PROTEIN (%)			HEADING DATE (JULIAN)	HEIGHT (INCHES)	TEST WEIGHT (LB/BU)	SAW FLY CUT (%)	LODGING (%)	FALLING NUMBER
		Total	Rain fed	Irrigation	Total	Rain fed	Irrigation	Total	Total	Total	Total	Total	Total
CI 13596	FORTUNA	53.8	48.0	91.1	14.4	14.4	14.1	184.7	<u>35.9</u>	59.4	6.0	11.5	416.5
ND 695	REEDER	56.3	50.5	94.5	14.8	14.8	14.7	185.3	31.5	59.4	<u>20.0</u>	19.3	401.7
PI633974	CHOTEAU	59.4	53.4	<u>98.7</u>	14.4	14.4	14.5	183.0	29.5	59.0	1.0	7.8	410.1
PI642366	VIDA	<u>65.5</u>	<u>59.8</u>	<u>102.2</u>	13.9	13.9	13.9	185.6	30.4	59.1	3.9	10.0	385.8
PI660981	DUCLAIR	61.7	55.2	<u>103.9</u>	14.3	14.4	14.2	<u>181.2</u>	30.4	58.9	3.7	8.9	393.6
BZ996434	CORBIN	57.6	52.9	87.9	14.4	14.4	14.3	<u>181.0</u>	30.0	59.5	2.4	11.7	406.9
WB9879CLP	WB9879CLP	59.8	52.9	<u>105.1</u>	14.7	14.8	14.6	183.3	29.8	59.3	1.0	8.5	423.2
BZ92413R	WB GUNNISON	57.5	52.4	90.4	13.8	13.9	13.5	183.1	28.9	60.2	0.5	5.5	<u>439.1</u>
AGRIPR10	BRENNAN	53.5	48.3	87.6	15.0	15.0	14.7	<u>180.1</u>	27.9	<u>60.9</u>	<u>20.9</u>	<u>35.4</u>	412.6
AGRIPR14	SY SOREN	58.5	52.1	<u>100.1</u>	14.9	15.0	14.6	182.3	28.6	59.8	<u>13.4</u>	<u>21.7</u>	<u>449.6</u>
PI 671855	EGAN	57.7	52.6	90.6	<u>15.7</u>	<u>15.7</u>	<u>15.8</u>	185.3	30.7	58.8	<u>16.7</u>	<u>21.7</u>	<u>450.4</u>
PI 676978	LANNING	61.5	<u>56.6</u>	93.7	14.5	14.5	14.6	<u>181.7</u>	30.0	59.2	<u>19.2</u>	<u>23.2</u>	393.2
PI 679964	NS PRESSER CLP	60.7	<u>56.1</u>	90.7	13.9	13.8	14.4	186.3	30.9	58.2	5.9	12.2	392.8
AGRIPR141	SY INGMAR	56.8	52.1	87.6	15.0	15.0	15.0	183.4	28.9	<u>60.4</u>	<u>14.3</u>	<u>26.4</u>	<u>450.1</u>
LIMAGR143	LCS PRO	59.3	53.6	96.0	14.4	14.3	14.9	182.3	32.5	59.2	<u>19.4</u>	18.5	387.8
WSCIA	ALUM	59.2	53.4	96.7	14.2	14.2	14.1	184.8	30.8	59.7	5.4	13.1	368.0
PI 690450	DAGMAR	<u>64.7</u>	<u>58.8</u>	<u>103.6</u>	14.6	14.5	14.9	<u>180.7</u>	30.7	59.9	3.0	8.1	<u>433.9</u>
MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	61.5	55.2	<u>102.4</u>	15.1	15.2	14.9	<u>180.4</u>	30.0	57.9	3.9	10.1	388.0
MT 1716	MT1274/RB07	<u>62.2</u>	55.4	<u>106.9</u>	14.3	14.3	14.4	181.8	29.7	59.7	<u>13.4</u>	<u>22.3</u>	406.1
MT 1767	12SR225/12F5 827	<u>61.9</u>	55.3	<u>104.9</u>	14.5	14.5	14.7	<u>180.3</u>	30.1	57.7	8.0	13.4	391.8
	MEAN	59.5	53.7	96.7	14.5	14.5	14.5	182.8	30.4	59.3	9.1	15.5	410.1
	PROBABILITY (LINE)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001
	LSD (5%)	3.7	3.9	9.0	0.3	0.4	0.6	1.7	0.9	0.7	11.8	14.2	22.5
	No. of environments	15	13	2	15	13	2	3	15	15	2	5	5

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : BOZEMAN (IRRIGATION) : 9901

ENTRY	ID	VARIETY / PEDIGREE	HEADING DATE (JULIAN)	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)
1	CI 13596	FORTUNA	192.7	<u>43.6</u>	91.9	59.2	14.1
2	ND 695	REEDER	193.0	39.0	95.5	60.2	14.7
3	PI633974	CHOTEAU	191.0	34.7	97.6	58.6	14.4
4	PI642366	VIDA	193.0	35.8	97.7	58.4	14.1
5	PI660981	DUCLAIR	189.0	35.3	<u>105.6</u>	58.8	14.1
6	BZ996434	CORBIN	187.7	35.5	91.9	59.5	14.7
7	WB9879CLP	WB9879CLP	190.7	36.3	<u>104.0</u>	59.0	14.6
8	BZ92413R	WB GUNNISON	189.3	34.6	87.4	<u>61.0</u>	13.8
9	AGRIPR10	BRENNAN	<u>186.7</u>	31.5	84.6	59.2	14.9
10	AGRIPR14	SY SOREN	190.3	33.3	99.4	60.3	14.8
11	PI 671855	EGAN	193.0	36.8	88.3	59.6	16.3
12	PI 676978	LANNING	190.7	35.0	87.0	59.8	15.0
13	PI 679964	NS PRESSER CLP	194.0	36.6	90.5	57.1	14.5
14	AGRIPR141	SY INGMAR	190.0	33.8	90.2	59.5	15.1
15	LIMAGR143	LCS PRO	190.3	38.5	<u>99.8</u>	60.5	15.2
16	WSCIA	ALUM	193.0	36.7	98.1	<u>61.0</u>	14.3
17	PI 690450	DAGMAR	188.3	35.4	<u>100.4</u>	59.4	15.2
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	188.0	34.2	<u>100.0</u>	57.9	14.8
19	MT 1716	MT1274/RB07	189.0	35.2	<u>108.5</u>	58.9	14.5
20	MT 1767	12SR225/12F5 827	186.7	34.8	98.7	58.2	14.6
MEAN			190.3	35.8	95.8	59.3	14.7
C.V.			0.2	2.2	5.6	1REP	1REP
PROBABILITY (ENTRY)			<0.001	<0.001	<0.001	1REP	1REP
LSD(0.05)			0.7	1.3	8.9	1REP	1REP

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : NARC - TURNER (DRY) : 9951

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	FALLING NO.
1	CI 13596	FORTUNA	<u>33.8</u>	46.9	58.0	15.1	447.2
2	ND 695	REEDER	28.7	50.8	57.0	15.9	417.5
3	PI633974	CHOTEAU	26.5	53.2	56.2	15.5	424.1
4	PI642366	VIDA	28.6	<u>58.5</u>	57.0	14.9	374.3
5	PI660981	DUCLAIR	28.9	53.7	56.1	15.3	405.3
6	BZ996434	CORBIN	27.3	52.2	57.2	15.5	446.5
7	WB9879CLP	WB9879CLP	27.1	53.8	57.1	15.8	443.8
8	BZ92413R	WB GUNNISON	24.2	47.5	<u>58.8</u>	14.3	435.6
9	AGRIPR10	BRENNAN	25.4	51.6	<u>59.7</u>	15.4	440.7
10	AGRIPR14	SY SOREN	27.3	52.1	58.1	15.7	<u>500.4</u>
11	PI 671855	EGAN	26.5	49.8	56.1	<u>16.7</u>	466.7
12	PI 676978	LANNING	26.6	<u>55.8</u>	56.0	15.6	415.5
13	PI 679964	NS PRESSER CLP	30.3	<u>57.1</u>	54.9	15.2	406.7
14	AGRIPR141	SY INGMAR	25.2	48.1	<u>58.9</u>	15.7	<u>500.9</u>
15	LIMAGR143	LCS PRO	31.5	<u>58.0</u>	56.5	15.3	399.0
16	WSCIA	ALUM	28.0	52.8	58.2	15.4	361.2
17	PI 690450	DAGMAR	28.7	<u>56.1</u>	58.1	15.5	463.1
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	27.1	<u>55.2</u>	54.5	15.8	400.7
19	MT 1716	MT1274/RB07	28.0	51.6	58.0	15.6	393.2
20	MT 1767	12SR225/12F5 827	27.3	49.8	55.4	15.5	402.3
MEAN			27.8	52.7	57.1	15.5	427.2
C.V.			4.8	5.0	1.0	1.6	5.1
PROBABILITY (ENTRY)			<0.001	<0.001	<0.001	<0.001	<0.001
LSD(0.05)			2.2	4.3	1.0	0.4	2.2

1) Underlined : highest or earliest value

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2019 OFF-STATION : NARC - CHESTER (DRY) : 9953

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	SAWFLY CUT (%)	FALLING NO.
1	CI 13596	FORTUNA	<u>40.7</u>	53.6	58.5	15.1	5.3	407
2	ND 695	REEDER	32.8	<u>64.5</u>	59.0	15.4	<u>23.3</u>	412
3	PI633974	CHOTEAU	31.0	55.9	57.8	15.5	1.0	408
4	PI642366	VIDA	32.8	<u>69.9</u>	59.2	14.8	3.7	405
5	PI660981	DUCLAIR	32.6	<u>65.8</u>	58.8	15.0	5.0	404
6	BZ996434	CORBIN	31.9	59.3	59.5	15.3	3.7	412
7	WB9879CLP	WB9879CLP	32.3	60.3	58.2	15.6	1.0	412
8	BZ92413R	WB GUNNISON	30.3	58.6	58.9	14.5	0.7	<u>450</u>
9	AGRIPR10	BRENNAN	30.6	56.0	<u>61.5</u>	15.4	<u>25.0</u>	372
10	AGRIPR14	SY SOREN	29.2	61.8	59.6	15.4	15.0	<u>450</u>
11	PI 671855	EGAN	32.0	63.6	56.8	<u>16.4</u>	21.7	<u>442</u>
12	PI 676978	LANNING	31.1	61.3	58.5	15.6	<u>31.7</u>	390
13	PI 679964	NS PRESSER CLP	33.9	62.3	57.4	15.1	6.7	388
14	AGRIPR141	SY INGMAR	31.5	62.6	59.9	15.4	<u>23.3</u>	<u>442</u>
15	LIMAGR143	LCS PRO	35.2	56.4	56.5	15.3	<u>31.7</u>	407
16	WSCIA	ALUM	33.3	53.3	54.7	<u>16.4</u>	6.7	340
17	PI 690450	DAGMAR	33.1	<u>69.6</u>	<u>60.5</u>	15.3	5.0	<u>438</u>
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	32.9	62.9	58.0	15.7	3.7	386
19	MT 1716	MT1274/RB07	31.0	64.3	<u>60.3</u>	15.1	16.7	<u>436</u>
20	MT 1767	12SR225/12F5 827	32.1	62.5	57.7	15.6	13.7	410
MEAN			32.5	61.2	58.6	15.4	12.2	411
C.V.			4.2	5.5	1.3	1.5	46.8	2.4
PROBABILITY (ENTRY)			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
LSD(0.05)			2.2	5.5	1.3	0.4	9.5	16.5

1) Underlined : highest or earliest value

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2019 OFF-STATION : NARC - LORING (DRY) : 9955

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	FALLING NO.
1	CI 13596	FORTUNA	<u>29.1</u>	47.2	58.9	13.9	402
2	ND 695	REEDER	<u>28.7</u>	53.1	59.3	14.0	394
3	PI633974	CHOTEAU	25.4	49.2	58.8	14.5	404
4	PI642366	VIDA	<u>28.0</u>	<u>65.8</u>	59.3	12.6	376
5	PI660981	DUCLAIR	26.7	53.6	58.2	13.7	380
6	BZ996434	CORBIN	<u>27.2</u>	52.7	59.2	13.8	383
7	WB9879CLP	WB9879CLP	24.5	50.8	58.7	14.8	403
8	BZ92413R	WB GUNNISON	26.9	49.0	<u>60.6</u>	14.2	<u>418</u>
9	AGRIPR10	BRENNAN	23.2	44.2	60.1	15.2	383
10	AGRIPR14	SY SOREN	26.0	55.9	59.8	14.8	407
11	PI 671855	EGAN	<u>27.5</u>	44.1	58.1	<u>16.1</u>	<u>427</u>
12	PI 676978	LANNING	<u>27.0</u>	56.6	58.7	13.9	374
13	PI 679964	NS PRESSER CLP	26.7	<u>63.4</u>	58.4	12.6	372
14	AGRIPR141	SY INGMAR	<u>28.1</u>	55.1	<u>60.5</u>	14.0	393
15	LIMAGR143	LCS PRO	<u>28.7</u>	56.2	58.9	13.5	354
16	WSCIA	ALUM	<u>27.7</u>	56.7	<u>60.4</u>	13.7	365
17	PI 690450	DAGMAR	<u>28.3</u>	55.4	59.3	13.8	405
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	24.5	50.9	57.3	14.5	384
19	MT 1716	MT1274/RB07	26.9	57.7	59.7	13.8	360
20	MT 1767	12SR225/12F5 827	<u>27.8</u>	54.1	57.4	14.3	358
MEAN			26.9	53.6	59.1	14.1	387
C.V.			5.0	7.0	0.6	2.1	2.2
PROBABILITY (ENTRY)			<0.001	<0.001	<0.001	<0.001	<0.001
LSD(0.05)			2.2	6.2	0.5	0.5	14.0

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : NARC - LOMA (DRY) : 9957

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	SAWFLY CUT (%)	FALLING NO.
1	CI 13596	FORTUNA	<u>39.7</u>	31.8	53.7	<u>16.3</u>	6.7	427
2	ND 695	REEDER	32.7	25.7	51.5	<u>16.5</u>	<u>16.7</u>	392
3	PI633974	CHOTEAU	29.6	<u>48.5</u>	54.7	15.7	1.0	428
4	PI642366	VIDA	32.9	<u>48.8</u>	<u>55.8</u>	15.7	4.0	405
5	PI660981	DUCLAIR	31.6	<u>47.8</u>	55.4	15.7	2.3	385
6	BZ996434	CORBIN	32.6	<u>46.8</u>	<u>55.9</u>	<u>16.6</u>	1.0	402
7	WB9879CLP	WB9879CLP	30.5	45.9	<u>56.2</u>	15.8	1.0	<u>439</u>
8	BZ92413R	WB GUNNISON	30.1	<u>48.6</u>	<u>56.3</u>	16.0	0.3	<u>454</u>
9	AGRIPR10	BRENNAN	26.9	42.8	<u>57.2</u>	15.7	<u>16.7</u>	428
10	AGRIPR14	SY SOREN	27.6	28.3	53.2	<u>16.5</u>	<u>11.7</u>	<u>462</u>
11	PI 671855	EGAN	31.5	43.3	53.2	<u>17.0</u>	<u>11.7</u>	<u>452</u>
12	PI 676978	LANNING	30.4	45.3	52.6	15.6	6.7	395
13	PI 679964	NS PRESSER CLP	32.5	<u>49.2</u>	54.4	15.2	5.0	405
14	AGRIPR141	SY INGMAR	30.7	42.3	<u>56.0</u>	15.8	5.3	<u>463</u>
15	LIMAGR143	LCS PRO	34.8	40.8	54.5	14.9	7.0	401
16	WSCIA	ALUM	32.1	37.9	53.5	<u>16.6</u>	4.0	357
17	PI 690450	DAGMAR	33.2	<u>51.9</u>	<u>56.3</u>	15.6	1.0	<u>459</u>
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	31.5	<u>48.0</u>	54.0	<u>16.7</u>	4.0	372
19	MT 1716	MT1274/RB07	25.4	32.6	54.7	16.1	<u>10.0</u>	434
20	MT 1767	12SR225/12F5 827	31.3	<u>47.1</u>	54.0	15.6	2.3	399
MEAN			31.4	42.7	54.7	16.0	5.9	418
C.V.			6.6	8.4	1.9	3.5	73.7	3.7
PROBABILITY (ENTRY)			<0.001	<0.001	<0.001	<0.01	<0.001	<0.001
LSD(0.05)			3.4	6.0	1.7	0.9	7.2	25.3

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : WTARC - CONRAD (IRRI) : 9919

ENTRY	ID	VARIETY / PEDIGREE	HEADING DATE (JULIAN)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	LODGING (%)
1	CI 13596	FORTUNA	<u>41.7</u>	90.2	<u>63.7</u>	14.0	8.3
2	ND 695	REEDER	37.7	93.4	<u>62.4</u>	<u>14.7</u>	<u>13.3</u>
3	PI633974	CHOTEAU	35.0	99.8	62.2	14.5	6.7
4	PI642366	VIDA	35.0	106.7	61.2	13.6	10.7
5	PI660981	DUCLAIR	34.3	102.2	62.0	14.2	6.7
6	BZ996434	CORBIN	33.7	83.9	<u>62.7</u>	13.9	8.3
7	WB9879CLP	WB9879CLP	34.3	106.2	<u>62.7</u>	14.5	11.3
8	BZ92413R	WB GUNNISON	32.7	93.4	62.1	13.1	5.0
9	AGRIPR10	BRENNAN	33.0	90.5	<u>63.8</u>	14.5	11.7
10	AGRIPR14	SY SOREN	32.7	100.7	<u>63.5</u>	14.4	11.7
11	PI 671855	EGAN	36.3	92.9	<u>62.6</u>	<u>15.2</u>	<u>16.7</u>
12	PI 676978	LANNING	37.3	100.3	<u>62.8</u>	14.1	<u>18.3</u>
13	PI 679964	NS PRESSER CLP	34.7	90.9	60.4	14.3	<u>13.3</u>
14	AGRIPR141	SY INGMAR	32.7	85.0	<u>63.7</u>	<u>14.9</u>	8.3
15	LIMAGR143	LCS PRO	38.7	92.2	<u>63.5</u>	14.6	<u>13.3</u>
16	WSCIA	ALUM	37.3	95.3	62.2	13.9	11.7
17	PI 690450	DAGMAR	36.3	106.7	<u>63.0</u>	14.6	11.7
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	34.7	104.7	62.2	<u>15.0</u>	<u>13.3</u>
19	MT 1716	MT1274/RB07	35.7	105.3	<u>63.0</u>	14.2	<u>13.3</u>
20	MT 1767	12SR225/12F5 827	36.0	111.0	60.9	<u>14.8</u>	<u>13.3</u>
MEAN			35.5	97.6	62.5	14.3	11.4
C.V.			4.8	11.1	1.5	2.6	33.3
PROBABILITY (ENTRY)			<0.001	ns	<0.01	<0.001	<0.05
LSD(0.05)			2.8	-	1.5	0.6	6.3

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : WTARC - CUT BANK (DRY) : 9960

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	LODGING (%)
1	CI 13596	FORTUNA	<u>35.3</u>	56.3	58.0	13.9	4.0
2	ND 695	REEDER	30.7	64.1	<u>60.1</u>	13.9	3.0
3	PI633974	CHOTEAU	31.3	63.7	57.6	13.4	2.0
4	PI642366	VIDA	30.0	<u>69.8</u>	57.1	13.9	2.0
5	PI660981	DUCLAIR	33.0	68.3	57.1	14.5	2.0
6	BZ996434	CORBIN	29.3	60.5	57.8	14.2	3.0
7	WB9879CLP	WB9879CLP	34.0	64.1	58.3	14.7	4.7
8	BZ92413R	WB GUNNISON	31.7	69.1	59.3	14.1	4.7
9	AGRIPR10	BRENNAN	30.7	<u>79.8</u>	<u>61.6</u>	14.3	3.0
10	AGRIPR14	SY SOREN	32.0	<u>74.4</u>	<u>60.4</u>	13.9	3.0
11	PI 671855	EGAN	35.0	65.9	59.1	14.7	3.0
12	PI 676978	LANNING	30.7	67.4	58.9	14.4	2.0
13	PI 679964	NS PRESSER CLP	32.0	<u>70.9</u>	56.9	14.3	2.0
14	AGRIPR141	SY INGMAR	30.0	<u>76.2</u>	<u>60.6</u>	15.0	2.0
15	LIMAGR143	LCS PRO	30.3	<u>70.0</u>	57.2	14.5	2.0
16	WSCIA	ALUM	34.3	<u>71.6</u>	59.2	14.5	4.7
17	PI 690450	DAGMAR	31.0	<u>74.0</u>	59.5	14.3	5.0
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	32.3	<u>69.9</u>	56.1	<u>15.3</u>	4.0
19	MT 1716	MT1274/RB07	31.3	<u>79.2</u>	58.7	14.2	4.0
20	MT 1767	12SR225/12F5 827	31.3	65.2	56.5	13.6	6.7
MEAN			31.8	69.0	58.5	14.3	3.3
C.V.			9.3	8.9	1.9	7.2	63.5
PROBABILITY (ENTRY)			ns	<0.01	<0.001	ns	ns
LSD(0.05)			-	10.1	1.8	-	-

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : WTARC - CHOTEAU (DRY) : 9962

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	LODGING (%)
1	CI 13596	FORTUNA	<u>40.3</u>	76.8	63.0	14.4	20.0
2	ND 695	REEDER	33.7	71.7	61.4	15.5	30.0
3	PI633974	CHOTEAU	33.3	<u>77.7</u>	61.8	15.7	11.7
4	PI642366	VIDA	33.3	<u>88.1</u>	61.8	14.6	13.3
5	PI660981	DUCLAIR	33.3	70.9	61.7	15.8	10.0
6	BZ996434	CORBIN	34.7	<u>80.8</u>	<u>63.7</u>	14.6	11.7
7	WB9879CLP	WB9879CLP	31.3	<u>79.7</u>	61.9	15.6	10.0
8	BZ92413R	WB GUNNISON	31.7	72.8	62.5	13.8	6.7
9	AGRIPR10	BRENNAN	29.7	42.3	62.7	16.4	<u>90.0</u>
10	AGRIPR14	SY SOREN	30.3	70.7	62.7	15.8	46.7
11	PI 671855	EGAN	33.7	72.7	62.1	16.4	33.3
12	PI 676978	LANNING	30.7	70.4	61.8	16.2	30.0
13	PI 679964	NS PRESSER CLP	33.3	76.1	60.5	15.0	20.0
14	AGRIPR141	SY INGMAR	29.7	57.5	<u>63.3</u>	16.2	66.7
15	LIMAGR143	LCS PRO	36.3	76.3	62.8	15.4	23.3
16	WSCIA	ALUM	33.3	75.6	62.4	14.4	16.7
17	PI 690450	DAGMAR	34.0	<u>87.4</u>	62.5	15.8	10.0
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	32.0	69.8	60.8	<u>17.4</u>	10.0
19	MT 1716	MT1274/RB07	32.3	<u>84.6</u>	<u>63.6</u>	14.9	30.0
20	MT 1767	12SR225/12F5 827	33.0	<u>84.2</u>	61.0	15.4	13.3
MEAN			33.0	74.3	62.2	15.5	25.2
C.V.			5.3	9.1	0.6	2.2	31.6
PROBABILITY (ENTRY)			<0.001	<0.001	<0.001	<0.001	<0.001
LSD(0.05)			2.9	11.2	0.6	0.6	13.2

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : WTARC - DEVON (DRY) : 9963

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	LODGING
1	CI 13596	FORTUNA	<u>33.0</u>	40.4	<u>61.9</u>	13.6	5.0
2	ND 695	REEDER	27.7	43.3	<u>61.0</u>	14.0	<u>6.7</u>
3	PI633974	CHOTEAU	26.7	48.4	<u>61.6</u>	13.6	2.0
4	PI642366	VIDA	28.0	<u>57.6</u>	<u>61.0</u>	12.9	4.0
5	PI660981	DUCLAIR	28.3	42.3	59.9	13.7	4.0
6	BZ996434	CORBIN	26.7	41.1	<u>62.1</u>	13.6	4.0
7	WB9879CLP	WB9879CLP	26.7	42.2	60.6	<u>14.5</u>	3.0
8	BZ92413R	WB GUNNISON	26.3	46.5	<u>61.6</u>	13.1	3.0
9	AGRIPR10	BRENNAN	25.0	34.3	<u>62.6</u>	<u>14.8</u>	4.0
10	AGRIPR14	SY SOREN	26.7	42.4	<u>61.4</u>	<u>14.5</u>	4.0
11	PI 671855	EGAN	27.7	41.8	59.9	<u>14.9</u>	4.0
12	PI 676978	LANNING	29.3	55.8	<u>61.3</u>	<u>14.4</u>	4.0
13	PI 679964	NS PRESSER CLP	30.0	45.8	60.8	12.5	4.0
14	AGRIPR141	SY INGMAR	26.0	37.8	<u>62.2</u>	<u>15.0</u>	5.0
15	LIMAGR143	LCS PRO	28.0	35.3	<u>61.3</u>	<u>14.2</u>	4.0
16	WSCIA	ALUM	27.3	40.5	<u>62.5</u>	13.4	4.0
17	PI 690450	DAGMAR	27.7	44.0	60.5	<u>14.6</u>	4.0
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	26.7	39.5	58.3	<u>14.9</u>	3.0
19	MT 1716	MT1274/RB07	27.0	50.3	<u>61.8</u>	<u>14.3</u>	4.0
20	MT 1767	12SR225/12F5 827	25.7	38.9	57.5	<u>14.7</u>	2.0
MEAN			27.5	43.4	61.0	14.1	3.9
C.V.			5.8	19.9	1.8	4.4	41.2
PROBABILITY (ENTRY)			<0.001	ns	<0.001	<0.001	ns
LSD(0.05)			2.6	-	1.8	1.0	-

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : WTARC - KNEES (DRY) : 9967

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	LODGING
1	CI 13596	FORTUNA	<u>39.3</u>	59.1	<u>60.0</u>	14.6	20.0
2	ND 695	REEDER	34.3	58.2	58.0	15.0	43.3
3	PI633974	CHOTEAU	32.0	66.4	59.0	14.8	16.7
4	PI642366	VIDA	32.0	65.6	59.5	13.8	20.0
5	PI660981	DUCLAIR	33.0	<u>75.4</u>	59.0	15.1	21.7
6	BZ996434	CORBIN	32.0	68.1	58.1	14.7	31.7
7	WB9879CLP	WB9879CLP	32.7	70.1	59.5	14.7	13.3
8	BZ92413R	WB GUNNISON	31.0	63.1	59.0	14.2	8.3
9	AGRIPR10	BRENNAN	29.3	61.8	59.9	15.0	<u>68.3</u>
10	AGRIPR14	SY SOREN	29.3	62.9	58.0	14.8	43.3
11	PI 671855	EGAN	31.0	66.1	58.9	<u>16.1</u>	<u>51.7</u>
12	PI 676978	LANNING	32.7	68.8	57.7	14.7	<u>61.7</u>
13	PI 679964	NS PRESSER CLP	33.3	66.1	57.3	14.5	21.7
14	AGRIPR141	SY INGMAR	29.0	61.3	58.4	13.8	50.0
15	LIMAGR143	LCS PRO	36.3	61.3	56.9	14.9	50.0
16	WSCIA	ALUM	32.7	72.1	59.8	14.0	28.3
17	PI 690450	DAGMAR	33.3	72.5	59.9	14.9	10.0
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	33.7	74.9	58.7	14.6	20.0
19	MT 1716	MT1274/RB07	32.7	61.6	59.3	13.9	<u>60.0</u>
20	MT 1767	12SR225/12F5 827	33.0	71.8	57.1	14.4	31.7
MEAN			32.6	66.4	58.7	14.6	33.6
C.V.			3.8	11.8	2.1	6.3	30.6
PROBABILITY (ENTRY)			<0.001	ns	ns	ns	<0.001
LSD(0.05)			2.0	-	-	-	17.0

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : CARC - MOCCASIN (NO TILL) : 9970

ENTRY	ID	VARIETY / PEDIGREE	HEADING DATE (JULIAN)	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)
1	CI 13596	FORTUNA	189.0	<u>39.3</u>	43.5	55.2	<u>14.6</u>
2	ND 695	REEDER	188.0	33.0	49.3	<u>56.7</u>	<u>14.3</u>
3	PI633974	CHOTEAU	187.0	30.3	47.0	55.2	13.6
4	PI642366	VIDA	188.0	31.7	55.1	54.3	13.5
5	PI660981	DUCLAIR	<u>185.0</u>	31.7	48.4	54.0	<u>14.6</u>
6	BZ996434	CORBIN	186.3	32.3	48.0	55.7	13.5
7	WB9879CLP	WB9879CLP	187.0	30.0	48.9	55.9	13.7
8	BZ92413R	WB GUNNISON	186.3	29.0	48.4	56.2	13.3
9	AGRIPR10	BRENNAN	<u>184.7</u>	29.3	52.2	<u>58.9</u>	<u>14.1</u>
10	AGRIPR14	SY SOREN	186.3	27.7	52.3	55.9	<u>14.4</u>
11	PI 671855	EGAN	188.0	31.7	54.5	55.9	<u>14.6</u>
12	PI 676978	LANNING	<u>184.0</u>	30.0	56.4	<u>56.4</u>	13.2
13	PI 679964	NS PRESSER CLP	188.7	31.3	52.9	53.7	13.2
14	AGRIPR141	SY INGMAR	188.0	31.3	58.3	<u>56.4</u>	<u>14.5</u>
15	LIMAGR143	LCS PRO	186.3	35.3	55.2	55.2	13.2
16	WSCIA	ALUM	187.7	31.0	45.4	55.5	13.6
17	PI 690450	DAGMAR	<u>184.7</u>	33.0	58.3	<u>56.9</u>	13.4
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	<u>184.3</u>	31.3	<u>60.4</u>	53.5	<u>14.7</u>
19	MT 1716	MT1274/RB07	186.7	31.0	46.4	55.4	13.3
20	MT 1767	12SR225/12F5 827	<u>185.3</u>	31.3	43.9	51.1	<u>14.7</u>
MEAN			186.6	31.6	51.2	55.4	13.9
C.V.			0.5	4.2	16.8	2.8	3.6
PROBABILITY (ENTRY)			<0.001	<0.001	ns	<0.01	<0.001
LSD(0.05)			1.6	2.2	-	2.6	0.8

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : CARC - DENTON (DRY) : 9971

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)
1	CI 13596	FORTUNA	31.7	31.3	56.8	<u>13.9</u>
2	ND 695	REEDER	28.7	<u>40.5</u>	<u>59.3</u>	<u>14.9</u>
3	PI633974	CHOTEAU	26.3	<u>38.3</u>	57.6	13.0
4	PI642366	VIDA	27.3	<u>44.8</u>	57.5	<u>13.3</u>
5	PI660981	DUCLAIR	26.7	<u>41.7</u>	<u>58.3</u>	12.2
6	BZ996434	CORBIN	26.7	34.0	56.4	<u>13.5</u>
7	WB9879CLP	WB9879CLP	28.0	35.3	57.5	<u>13.8</u>
8	BZ92413R	WB GUNNISON	28.0	<u>39.9</u>	<u>60.1</u>	12.0
9	AGRIPR10	BRENNAN	28.0	32.4	<u>59.1</u>	<u>14.0</u>
10	AGRIPR14	SY SOREN	29.0	<u>38.6</u>	<u>58.5</u>	<u>14.2</u>
11	PI 671855	EGAN	28.7	35.4	58.2	<u>14.7</u>
12	PI 676978	LANNING	29.0	<u>43.7</u>	<u>58.7</u>	13.0
13	PI 679964	NS PRESSER CLP	27.7	<u>41.9</u>	57.8	12.2
14	AGRIPR141	SY INGMAR	26.3	35.0	<u>59.0</u>	<u>14.4</u>
15	LIMAGR143	LCS PRO	29.3	35.5	<u>58.7</u>	13.0
16	WSCIA	ALUM	26.0	37.1	<u>59.2</u>	12.6
17	PI 690450	DAGMAR	27.3	<u>40.6</u>	<u>58.9</u>	<u>13.3</u>
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	28.3	<u>39.8</u>	56.6	<u>13.4</u>
19	MT 1716	MT1274/RB07	27.7	36.4	57.4	13.2
20	MT 1767	12SR225/12F5 827	27.0	<u>42.8</u>	56.8	12.6
MEAN			27.9	38.3	58.1	13.4
C.V.			5.3	11.7	2.0	7.6
PROBABILITY (ENTRY)			<0.01	<0.05	<0.01	<0.05
LSD(0.05)			2.4	7.4	1.9	1.7

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : CARC - GERALDINE (DRY) : 9972

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)
1	CI 13596	FORTUNA	<u>35.0</u>	41.7	<u>60.9</u>	13.5
2	ND 695	REEDER	31.3	48.7	60.8	13.5
3	PI633974	CHOTEAU	29.0	46.6	60.1	13.4
4	PI642366	VIDA	29.3	<u>55.0</u>	60.3	12.2
5	PI660981	DUCLAIR	29.0	47.0	59.9	12.9
6	BZ996434	CORBIN	28.7	45.4	59.8	13.5
7	WB9879CLP	WB9879CLP	28.7	46.7	60.6	13.8
8	BZ92413R	WB GUNNISON	28.0	43.3	<u>61.3</u>	12.8
9	AGRIPR10	BRENNAN	29.0	48.0	<u>61.9</u>	<u>14.0</u>
10	AGRIPR14	SY SOREN	28.3	48.4	60.2	<u>14.0</u>
11	PI 671855	EGAN	31.3	48.8	59.3	<u>14.7</u>
12	PI 676978	LANNING	29.0	49.8	59.9	13.1
13	PI 679964	NS PRESSER CLP	31.0	46.9	58.7	12.3
14	AGRIPR141	SY INGMAR	28.7	48.7	<u>61.8</u>	13.6
15	LIMAGR143	LCS PRO	31.0	47.2	59.8	13.2
16	WSCIA	ALUM	30.0	47.1	<u>61.9</u>	12.7
17	PI 690450	DAGMAR	29.7	<u>52.7</u>	60.8	13.1
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	28.7	47.5	58.3	13.7
19	MT 1716	MT1274/RB07	29.7	<u>50.7</u>	60.6	13.1
20	MT 1767	12SR225/12F5 827	28.3	49.3	58.5	13.3
MEAN			29.7	48.0	60.3	13.3
C.V.			2.3	6.0	1.1	3.7
PROBABILITY (ENTRY)			<0.001	<0.01	<0.001	<0.001
LSD(0.05)			1.1	4.8	1.1	0.8

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : CARC - HIGHWOOD (DRY)

ENTRY	ID	VARIETY / PEDIGREE	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)
1	CI 13596	FORTUNA	23.7	43.6	61.9	14.1
2	ND 695	REEDER	<u>26.3</u>	36.9	62.0	<u>14.9</u>
3	PI633974	CHOTEAU	24.3	40.1	63.1	14.0
4	PI642366	VIDA	24.0	44.5	62.5	13.8
5	PI660981	DUCLAIR	22.0	41.6	62.5	13.7
6	BZ996434	CORBIN	23.3	46.4	61.8	13.7
7	WB9879CLP	WB9879CLP	24.0	40.0	62.0	14.3
8	BZ92413R	WB GUNNISON	22.7	42.7	63.0	14.0
9	AGRIPR10	BRENNAN	23.3	40.0	62.6	<u>15.0</u>
10	AGRIPR14	SY SOREN	24.7	43.7	62.8	14.3
11	PI 671855	EGAN	22.7	<u>51.9</u>	61.6	<u>15.5</u>
12	PI 676978	LANNING	24.7	45.0	62.5	13.9
13	PI 679964	NS PRESSER CLP	22.3	43.9	62.6	13.8
14	AGRIPR141	SY INGMAR	23.7	44.4	62.6	<u>14.7</u>
15	LIMAGR143	LCS PRO	23.0	42.5	62.5	13.8
16	WSCIA	ALUM	23.7	42.5	61.5	13.2
17	PI 690450	DAGMAR	23.0	40.4	61.2	<u>14.7</u>
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	24.3	41.6	62.7	<u>15.0</u>
19	MT 1716	MT1274/RB07	23.7	45.2	62.1	13.7
20	MT 1767	12SR225/12F5 827	24.7	50.8	63.4	13.8
MEAN			23.7	43.4	62.3	14.2
C.V.			7.3	12.5	1.6	3.9
PROBABILITY (ENTRY)			ns	ns	ns	<0.01
LSD(0.05)			-	-	-	0.9

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)

2019 OFF-STATION : NWARC - KALISPELL (DRY)

ENTRY	ID	VARIETY / PEDIGREE	HEADING DATE (JULIAN)	PLANT HEIGHT (IN.)	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	PROTEIN (%)	FALLING No.	1,000 KERNEL Wt. (g)	RUST (%)
1	CI 13596	FORTUNA	172.3	<u>32.1</u>	52.1	61.2	14.8	399.3	39.0	5.3
2	ND 695	REEDER	175.0	27.3	49.2	<u>62.7</u>	14.1	392.5	36.2	3.0
3	PI633974	CHOTEAU	<u>171.0</u>	26.7	<u>58.9</u>	61.2	14.6	387.2	35.8	6.7
4	PI642366	VIDA	175.7	27.0	<u>54.3</u>	61.6	14.2	368.8	35.4	3.0
5	PI660981	DUCLAIR	<u>169.7</u>	<u>29.8</u>	<u>61.0</u>	61.3	14.6	393.2	34.5	2.0
6	BZ996434	CORBIN	<u>169.0</u>	28.1	<u>52.7</u>	62.4	14.2	391.5	39.5	9.3
7	WB9879CLP	WB9879CLP	172.3	25.9	49.7	61.1	14.9	417.5	34.8	5.3
8	BZ92413R	WB GUNNISON	173.7	26.6	51.6	62.6	14.1	437.0	<u>42.9</u>	8.3
9	AGRIPR10	BRENNAN	<u>169.0</u>	23.5	42.1	62.1	15.7	439.2	35.2	5.3
10	AGRIPR14	SY SOREN	<u>170.3</u>	24.4	45.6	62.2	16.1	429.4	32.6	7.7
11	PI 671855	EGAN	175.0	28.6	46.4	60.9	<u>16.7</u>	<u>463.9</u>	36.3	0.0
12	PI 676978	LANNING	<u>170.3</u>	26.0	<u>59.5</u>	62.2	15.4	391.8	37.2	2.0
13	PI 679964	NS PRESSER CLP	176.3	28.3	<u>53.1</u>	61.4	13.7	392.2	34.3	<u>36.7</u>
14	AGRIPR141	SY INGMAR	172.3	27.1	49.5	<u>63.0</u>	16.3	<u>451.6</u>	34.5	1.0
15	LIMAGR143	LCS PRO	<u>170.3</u>	<u>30.6</u>	<u>62.5</u>	<u>62.7</u>	14.5	377.8	39.8	6.0
16	WSCIA	ALUM	173.7	<u>29.0</u>	<u>61.6</u>	<u>62.9</u>	14.3	416.8	40.1	1.0
17	PI 690450	DAGMAR	<u>169.0</u>	26.9	<u>61.1</u>	62.1	14.7	405.0	<u>40.9</u>	7.7
18	MT 1673	Duclair x McNeal/Glupro, +, fam 72-17	<u>169.0</u>	28.1	<u>56.8</u>	60.3	15.6	397.2	33.4	0.0
19	MT 1716	MT1274/RB07	<u>169.7</u>	27.8	<u>59.1</u>	61.5	14.6	406.8	29.1	16.7
20	MT 1767	12SR225/12F5 827	<u>169.0</u>	27.3	<u>58.7</u>	60.5	14.5	390.2	34.8	9.3
MEAN			171.6	27.6	54.3	61.8	14.9	407.5	36.3	6.8
C.V.			0.8	7.0	11.1	0.4	1.3	3.2	3.8	92.7
PROBABILITY (ENTRY)			<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
LSD(0.05)			2.3	3.2	9.9	0.4	0.3	21.6	2.3	10.4

1) Underlined : highest or earliest value

2) Double underlined : equal value to highest or earliest value within a column based LSD(0.05)