



2001

THE WESTERN REGIONAL
SPRING BARLEY
AND
WESTERN DRYLAND SPRING
BARLEY NURSERIES



UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
NORTHERN PLAINS AND PACIFIC WEST REGIONS
in cooperation with
State Agricultural Experiment Stations



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AGRICULTURAL RESEARCH SERVICE

In cooperation with
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WESTERN REGIONAL SPRING BARLEY NURSERY
and the
WESTERN REGIONAL DRYLAND SPRING BARLEY NURSERY

2001

Compiled by C. A. Erickson and D. E. Burrup

This report is compiled in electronic format intended for transmittal to the nursery cooperators. The files and their contents are as follows:

01WRBNREPORT.doc: WORD document explaining the contents of the report with the following sections:

- Cover Page and Contents Page
- Location of Experiments and Personnel
- Western Regional Spring Barley Nursery Narrative
 - Nursery contents and locations
 - General Information
 - Data Analysis
 - Data Highlights
 - Data Tables
- Western Regional Dryland Spring Barley Nursery Narrative
 - Nursery contents and locations
 - General Information
 - Data Analysis
 - Data Highlights
 - Data Tables

01WRsBN-English.xls, 01WRsBN-Metric.xls: Excel files containing data for the Western Regional Spring Barley Nursery in both English and metric format.

01WRDSN-English.xls, 01WRDSN-Metric.xls: Excel files containing data for the Western Regional Dryland Spring Barley Nursery in both English and metric format.

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 contains preliminary data which have not been sufficiently confirmed to justify general release; interpretations may be modified with additional experimentation. Confirmed results will be published through established channels. 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. The report is not intended for publication and should not be referred to in literature citations nor quoted in publicity or advertising. Use of the data may be granted for certain purposes upon written request to the agency or agencies involved.

Aberdeen, Idaho, 2002

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LOCATION OF EXPERIMENTS AND PERSONNEL

Malting Quality (separate report)

| | |
|---------------|--|
| Madison WI | A. D. Budde |
| California | |
| Tulelake | L. Jackson |
| Idaho | |
| Aberdeen | C. A. Erickson, D. E. Burrup |
| Bonners Ferry | K. Dempster |
| Idaho Falls | C. Sellmer |
| Moscow | K. Dempster |
| Paul | C. Sellmer |
| Soda Springs | L. Robertson |
| Tammany | W. L. McProud |
| Tetonia | C. A. Erickson, D. E. Burrup, J. C. Whitmore |
| Montana | |
| Bozeman | T. Blake, P. Hensleigh |
| Fairfield | C. Sellmer |
| Manhattan | D. R. Clarke |
| North Dakota | |
| Fargo | J. D. Franckowiak, R. D. Horsley |
| Hettinger | E. Ericksmoen |
| Langdon | J. D. Franckowiak, R. D. Horsley |
| Minot | J. D. Franckowiak, R. D. Horsley |
| Williston | N. R. Riveland |
| Oregon | |
| Klamath Falls | D. Clark |
| Saskatchewan | |
| Saskatoon | B. G. Rossnagel, B. Harvey |
| Swift Current | J. C. McLeod |
| Utah | |
| Blue Creek | D. Roche |
| Logan | D. Roche |
| Washington | |
| Pullman | S. E. Ullrich |
| Wyoming | |
| Powell | L. Bjornestad |

WESTERN REGIONAL SPRING BARLEY NURSERY, 2001

This nursery is intended to be grown under irrigation, or in areas of high rainfall. It contains both 2- and 6-rowed feed and malting barley.

Locations in the 2001 nursery that were harvested and summarized for yield from 13 locations are:

| | | |
|-------------------|-------------------|-------------|
| Aberdeen, ID | Fairfield, MT | Logan, UT |
| Bonnars Ferry, ID | Williston, ND | Pullman, WA |
| Idaho Falls, ID | Fargo, ND | Powell, WY |
| Moscow, ID | Minot, ND | |
| Manhattan, MT | Klamath Falls, OR | |

General Information

The entry list for the 2001 Western Regional Spring Barley Nursery is shown in Table 1. In 2001, commercial cultivars were again entered into the nursery, including those from: Busch Agricultural Resources (6 lines); Plant Breeders 1 (3 lines); and Western Plant Breeders (2 lines).

There were 39 entries in this nursery in 2001. Entries in the 2000 test that were dropped in 2001 were: WA9504-94, Tango, UT 5754, all tested 3 years; BA6B94-8253, MT910189, MTLB-05, Valier (MTLB-30), WA11825-95, WPD-BZ594-35, all tested 2 Years); 2ND17274, 93Ab859, BA2B96-5038, UT005742, WA11801-95, WA11832-95, and WPB-DA587-124, all tested 1 year. New entries in the test were: BZ594-20, BZ596-117, 92Ab5180, UT95B1216-4087, UT97B1480-1632, WA8682-96, WA8709-96, WA10138-96, WA10147-96, 6B95-2482, 6B95-2089, 2B96-5057, 2B97-4077, 2B97-4299, CDC Select, TR 167, MT960099, MT960228, MT970116, 95SR149C, and 95SR316A.

Data Analysis

Computer software, in Lotus and Excel format, was used to obtain the cultivar means and period of years summary for all characteristics. With this software, we were also able to calculate the coefficient of variation (C.V.) and the Least Significant Difference (LSD) at the .05 level for grain yield. These two statistics are included to provide some indication of the variability in the individual test locations and an indication of cultivar rank at each location and the overall average.

Data Highlights

Seasonal measurements for the check cultivars Baronesse, Morex, Stander, and Steptoe (Table 2; *it should be noted that his table's relationship to some previous years has been altered due to adding the check varieties Baronesse and Stander in the year 2000*), for 1999 through 2001, show that the check mean yield value for the 2001 season was lower than the previous two years. Test weight was lower than the mean, plump values were slightly higher than the mean, heading date was 1.6 days earlier than the mean, and plant height was 4.8 cm lower than the mean.

In 2001 the highest yielding line over locations was UT95B1216-4087, a six-rowed feed barley, at 6.28 Mg ha⁻¹ (Table 3). The six highest yielding lines were feed types, and 18 of the top 20 lines were feed types. BARI 2B97-4299 was the highest yielding malting barley, ranked seventh at 5.79 Mg ha⁻¹.

Tables 4 through 10 present the 2001 data for individual locations for grain yield, test weight, height, heading date, plumps, thins, and lodging, respectively.

Table 1: 2001 Western Regional Spring Barley Nursery, Planting List

| Seed Source | Entry No. | Entry | Parentage | Type | Grade |
|-------------|-----------|----------------------|-------------------------------|-------|--------------|
| | 1 | Steptoe | | 6 row | feed |
| | 2 | Baronesse | | 2 row | feed |
| | 3 | Morex | | 6 row | malting |
| | 4 | Stander | | 6 row | malting |
| | 5 | Harrington | | 2 row | malting |
| PB1 | 6 | PB1-95-2R-517 | PB1-88-2R-801/VD403582 | 2 row | feed |
| PB1 | 7 | PB1-95-2R-A629 | PB1-88-2R-801/VD403582 | 2 row | feed |
| PB1 | 8 | PB1-97-2R-7090 | | 2 row | feed |
| WPB | 9 | * BZ594-20 | Stark/Baronesse | 2 row | feed |
| WPB | 10 | * BZ596-117 | | 2 row | feed |
| OSU | 11 | BCD 47 (OR2967102) | Harr/Orca//D172(Shyri/Galena) | 2 row | malting |
| USDA-ARS | 12 | 93Ab688 | M44/80Ab4952//79Ab10719 | 6 row | feed |
| USDA-ARS | 13 | * 92Ab5180 | 83Ab5432/SR40 | 6 row | malting |
| USU | 14 | UT003757 | UT85B482-1999/UT84B427-2507 | 6 row | feed |
| USU | 15 | UT004467 | UT87B603-1266/Short#2 | 6 row | feed |
| USU | 16 | * UT95B1216-4087 | UT84B427-250/OR3 | 6 row | feed |
| USU | 17 | * UT97B1480-1632 | UT89B747-1263/UT90B774-2467 | 6 row | feed |
| WSU | 18 | * WA8682-96 | A308/Baronesse | 2 row | malting |
| WSU | 19 | * WA8709-96 | WA7679-91/Baronesse | 2 row | feed |
| WSU | 20 | * WA10147-96 | WA7758-89/Baronesse | 2 row | feed |
| WSU | 21 | * WA10138-96 | WA7758-89/Baronesse | 2 row | malting |
| BARI | 22 | Legacy (6B93-2978) | 6B86-3517/Excel | 6 row | malting |
| BARI | 23 | * 6B95-2482 | 6B89-2126/ND10981 | 6 row | malting |
| BARI | 24 | * 6B95-2089 | 6B84-2912/B1601/6B88-3213 | 6 row | malting |
| BARI | 25 | * 2B96-5057 | B1215/B88-5336 | 2 row | malting |
| BARI | 26 | * 2B97-4077 | B1215/2B91-4947 | 2 row | malting |
| BARI | 27 | * 2B97-4299 | 2B91-4947/2B91-4450 | 2 row | malting |
| CDC | 28 | CDC Copeland (TR150) | WM861-5/TR118 | 2 row | malting |
| CDC | 29 | * CDC Select | | 2 row | malting |
| CDC | 30 | * TR 167 | | 2 row | malting |
| CDC | 31 | CDC Bold | | 2 row | feed |
| CDC | 32 | CDC Helgason (TR346) | | 2 row | feed |
| MSU | 33 | * MT960099 | Manley/Baronesse | 2 row | feed/malting |
| MSU | 34 | * MT960228 | Stark/ Baronesse | 2 row | feed |
| MSU | 35 | * MT970116 | Klages/Baronesse | 2 row | feed/malting |
| NDSU | 36 | ND15422 | | 6 row | malting |
| NDSU | 37 | Drummond (ND15477) | ND9712//Stander/ND12200 | 6 row | malting |
| USDA-ARS | 38 | * 95SR149C | Bancroft/Harrington | 2 row | malting |
| USDA-ARS | 39 | * 95SR316A | Bancroft/Crystal | 2 row | malting |

*New entries

Table 2: Seasonal Measurements (1999-2001) of the Western Regional Spring Barley Nursery

Average of adjusted means of checks Baroness, Morex, Stander, and Steptoe

| Yield | | |
|-----------|---------------|---------------------|
| Year | Station Years | Mg ha ⁻¹ |
| 1999 | 12 | 6.2 |
| 2000 | 12 | 6.1 |
| 2001 | 13 | 5.3 |
| Adj. Mean | | 5.9 |

| Test Weight | | |
|-------------|---------------|--------------------|
| Year | Station Years | kg m ⁻³ |
| 1999 | 12 | 647.5 |
| 2000 | 12 | 668.6 |
| 2001 | 13 | 653.8 |
| Adj. Mean | | 656.7 |

| Plump | | |
|-----------|---------------|------|
| Year | Station Years | % |
| 1999 | 12 | 90.1 |
| 2000 | 10 | 89.8 |
| 2001 | 10 | 88.1 |
| Adj. Mean | | 89.4 |

| Heading Date | | |
|--------------|---------------|--------|
| Year | Station Years | Julian |
| 1999 | 12 | 182.4 |
| 2000 | 12 | 173.9 |
| 2001 | 9 | 175.8 |
| Adj. Mean | | 177.4 |

| Plant Height | | |
|--------------|---------------|------|
| Year | Station Years | cm |
| 1999 | 12 | 85.2 |
| 2000 | 12 | 82.3 |
| 2001 | 14 | 76.6 |
| Adj. Mean | | 81.4 |

Table 3: 2001 Western Regional Spring Barley Means Summary

| Entry | Yield | | | Test Weight | | | Heading | Height | | Plump | |
|-----------------|-------------|---------------------|------|-------------|--------------------|------|------------|-----------|-----------|-----------|----------|
| | lb/A | Mg ha ⁻¹ | rank | lb/bu | kg m ⁻³ | rank | Julian | in. | cm | >6/64 | Thin |
| no. of stations | 13 | | | 13 | | | 9 | 14 | | 9 | |
| Steptoe | 4852 | 5.43 | 24 | 48.0 | 618.0 | 38 | 174 | 29 | 74 | 90 | 3 |
| Baronesse | 4889 | 5.47 | 19 | 51.4 | 679.2 | 16 | 179 | 28 | 70 | 89 | 4 |
| Morex | 4322 | 4.84 | 39 | 49.0 | 649.2 | 34 | 174 | 33 | 84 | 85 | 4 |
| Stander | 4799 | 5.37 | 27 | 50.5 | 668.8 | 26 | 176 | 31 | 78 | 89 | 3 |
| Harrington | 4602 | 5.15 | 35 | 51.0 | 673.8 | 20 | 179 | 29 | 74 | 85 | 5 |
| PB1-95-2R-517 | 4942 | 5.53 | 17 | 51.9 | 687.5 | 9 | 177 | 30 | 76 | 91 | 3 |
| PB1-95-2R-A629 | 4778 | 5.35 | 31 | 51.9 | 685.3 | 8 | 176 | 30 | 76 | 91 | 2 |
| PB1-97-2R-7090 | 5199 | 5.82 | 6 | 53.1 | 705.0 | 1 | 178 | 29 | 74 | 93 | 2 |
| BZ594-20 | 5276 | 5.91 | 3 | 52.4 | 695.6 | 4 | 176 | 28 | 72 | 94 | 2 |
| BZ596-117 | 5018 | 5.62 | 13 | 52.9 | 704.8 | 2 | 177 | 29 | 73 | 93 | 2 |
| BCD 47 | 4508 | 5.05 | 38 | 50.3 | 669.4 | 28 | 178 | 25 | 63 | 89 | 4 |
| 93Ab688 | 5085 | 5.69 | 9 | 48.2 | 638.0 | 36 | 175 | 30 | 75 | 75 | 8 |
| 92Ab5180 | 4857 | 5.44 | 22 | 47.5 | 627.8 | 39 | 174 | 28 | 71 | 74 | 9 |
| UT003757 | 5313 | 5.95 | 2 | 48.4 | 638.0 | 35 | 174 | 28 | 70 | 80 | 6 |
| UT004467 | 5087 | 5.70 | 8 | 48.1 | 637.6 | 37 | 173 | 28 | 70 | 70 | 9 |
| UT95B1216-4087 | 5607 | 6.28 | 1 | 49.8 | 659.3 | 31 | 175 | 30 | 77 | 87 | 4 |
| UT97B1480-1632 | 5033 | 5.64 | 12 | 51.2 | 676.9 | 18 | 172 | 30 | 77 | 89 | 3 |
| WA8682-96 | 4944 | 5.54 | 16 | 52.0 | 688.6 | 6 | 177 | 29 | 74 | 89 | 4 |
| WA8709-96 | 5048 | 5.65 | 11 | 51.7 | 684.5 | 11 | 179 | 29 | 73 | 90 | 4 |
| WA10147-96 | 4997 | 5.60 | 14 | 50.8 | 671.8 | 23 | 179 | 28 | 71 | 91 | 3 |
| WA10138-96 | 5224 | 5.85 | 5 | 51.2 | 679.9 | 17 | 177 | 30 | 76 | 92 | 3 |
| Legacy | 4860 | 5.44 | 20 | 49.1 | 647.4 | 33 | 176 | 33 | 83 | 85 | 4 |
| 6B95-2482 | 4832 | 5.41 | 25 | 50.5 | 667.9 | 25 | 176 | 32 | 82 | 91 | 3 |
| 6B95-2089 | 4583 | 5.13 | 37 | 50.0 | 659.8 | 29 | 175 | 31 | 80 | 87 | 4 |
| 2B96-5057 | 4859 | 5.44 | 21 | 51.4 | 677.5 | 15 | 180 | 28 | 71 | 92 | 3 |
| 2B97-4077 | 4765 | 5.34 | 32 | 51.4 | 678.7 | 14 | 180 | 31 | 78 | 87 | 4 |
| 2B97-4299 | 5169 | 5.79 | 7 | 50.4 | 666.6 | 27 | 179 | 30 | 76 | 89 | 4 |
| CDC Copeland | 4855 | 5.44 | 23 | 51.0 | 673.8 | 22 | 180 | 31 | 78 | 90 | 3 |
| CDC Select | 4816 | 5.39 | 26 | 51.0 | 674.9 | 19 | 178 | 30 | 77 | 92 | 2 |
| TR 167 | 4798 | 5.37 | 28 | 51.7 | 682.6 | 10 | 177 | 31 | 79 | 93 | 2 |
| CDC Bold | 4782 | 5.36 | 30 | 51.0 | 677.5 | 21 | 178 | 30 | 76 | 85 | 5 |
| CDC Helgason | 4916 | 5.50 | 18 | 52.3 | 694.9 | 5 | 179 | 30 | 77 | 89 | 3 |
| MT960099 | 5237 | 5.86 | 4 | 51.4 | 681.5 | 13 | 180 | 27 | 69 | 82 | 5 |
| MT960228 | 5058 | 5.66 | 10 | 51.4 | 680.8 | 12 | 179 | 30 | 75 | 88 | 4 |
| MT970116 | 4994 | 5.59 | 15 | 52.4 | 701.7 | 3 | 177 | 32 | 80 | 93 | 2 |
| ND15422 | 4791 | 5.36 | 29 | 49.2 | 653.6 | 32 | 176 | 31 | 78 | 89 | 4 |
| Drummond | 4712 | 5.28 | 33 | 49.9 | 660.0 | 30 | 175 | 32 | 81 | 90 | 3 |
| 95SR149C | 4596 | 5.15 | 36 | 50.6 | 665.3 | 24 | 181 | 30 | 77 | 85 | 5 |
| 95SR316A | 4642 | 5.20 | 34 | 51.9 | 690.7 | 7 | 180 | 31 | 80 | 87 | 4 |
| Average | 4914 | 5.50 | | 50.7 | 671.1 | | 177 | 30 | 76 | 88 | 4 |

Table 4: 2001 Western Regional Spring Barley, Grain Yield (Mg ha⁻¹)

| | Aberdeen | Bonnars Ferry | Idaho Falls | Moscow | Manhattan | Fairfield | Williston | Fargo | Minot | Klamath Falls | Pullman | Logan | Powell | Average |
|-------------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|
| | ID | ID | ID | ID | MT | MT | ND | ND | ND | OR | WA | UT | WY | |
| 1 Steptoe | 8.45 | 1.51 | 7.96 | 6.05 | 6.03 | 5.59 | 4.74 | 4.16 | 4.04 | 4.93 | 5.96 | 4.61 | 6.62 | 5.43 |
| 2 Baronesse | 8.55 | 2.13 | 5.59 | 7.11 | 5.75 | 5.49 | 5.23 | 4.30 | 3.96 | 5.79 | 6.49 | 4.93 | 5.86 | 5.47 |
| 3 Morex | 7.31 | 1.25 | 6.62 | 6.11 | 5.09 | 5.22 | 4.53 | 3.82 | 3.45 | 3.91 | 5.09 | 3.77 | 6.74 | 4.84 |
| 4 Stander | 8.89 | 1.20 | 7.55 | 7.57 | 5.72 | 4.23 | 5.15 | 4.27 | 4.05 | 4.19 | 6.13 | 4.15 | 6.78 | 5.37 |
| 5 Harrington | 6.68 | 1.99 | 6.61 | 6.18 | 5.56 | 5.21 | 5.21 | 3.88 | 3.98 | 5.19 | 6.01 | 4.57 | 5.91 | 5.15 |
| 6 PB1-95-2R-517 | 7.89 | 2.13 | 7.97 | 7.52 | 5.77 | 5.49 | 5.15 | 4.52 | 4.29 | 4.82 | 6.48 | 4.47 | 5.42 | 5.53 |
| 7 PB1-95-2R-A629 | 7.54 | 2.19 | 7.67 | 7.61 | 5.28 | 5.40 | 5.34 | 4.72 | 4.26 | 4.12 | 6.18 | 3.96 | 5.29 | 5.35 |
| 8 PB1-97-2R-7090 | 8.33 | 2.07 | 8.26 | 7.22 | 7.28 | 6.52 | 5.09 | 3.94 | 4.84 | 4.83 | 6.49 | 5.01 | 5.79 | 5.82 |
| 9 BZ594-20 | 8.92 | 1.97 | 8.57 | 8.66 | 6.23 | 5.26 | 5.06 | 4.86 | 4.04 | 5.45 | 6.39 | 4.93 | 6.45 | 5.91 |
| 10 BZ596-117 | 8.02 | 2.40 | 7.27 | 7.95 | 6.49 | 5.23 | 5.29 | 4.39 | 4.29 | 4.93 | 6.54 | 4.78 | 5.47 | 5.62 |
| 11 BCD 47 | 7.94 | 1.56 | 6.89 | 8.10 | 5.58 | 5.36 | 4.65 | 3.07 | 2.58 | 4.02 | 6.24 | 3.99 | 5.64 | 5.05 |
| 12 93Ab688 | 9.43 | 1.52 | 6.82 | 8.09 | 6.12 | 6.21 | 4.89 | 4.57 | 4.13 | 4.85 | 6.24 | 4.60 | 6.55 | 5.69 |
| 13 92Ab5180 | 8.95 | 1.46 | 8.35 | 8.63 | 5.47 | 6.27 | 3.90 | 4.22 | 3.83 | 4.12 | 5.68 | 4.00 | 5.82 | 5.44 |
| 14 UT003757 | 9.09 | 2.02 | 9.47 | 8.73 | 7.28 | 5.77 | 5.16 | 3.74 | 3.93 | 4.64 | 6.11 | 4.91 | 6.48 | 5.95 |
| 15 UT004467 | 9.56 | 1.94 | 7.96 | 8.44 | 5.56 | 5.28 | 4.40 | 4.24 | 4.33 | 5.06 | 6.05 | 4.50 | 6.75 | 5.70 |
| 16 UT95B1216-4087 | 10.35 | 2.05 | 8.30 | 8.05 | 7.35 | 5.66 | 4.95 | 4.72 | 4.89 | 5.31 | 7.17 | 5.27 | 7.56 | 6.28 |
| 17 UT97B1480-1632 | 7.62 | 2.00 | 7.62 | 8.44 | 6.33 | 4.86 | 5.14 | 4.50 | 4.00 | 5.01 | 6.17 | 4.76 | 6.81 | 5.64 |
| 18 WA8682-96 | 8.41 | 2.17 | 6.99 | 6.55 | 6.30 | 5.42 | 4.82 | 4.45 | 4.06 | 6.16 | 6.10 | 5.30 | 5.24 | 5.54 |
| 19 WA8709-96 | 7.93 | 2.01 | 7.22 | 6.96 | 6.19 | 5.73 | 5.27 | 4.34 | 4.24 | 6.10 | 6.38 | 5.24 | 5.89 | 5.65 |
| 20 WA10147-96 | 8.44 | 1.85 | 6.89 | 7.66 | 5.77 | 5.19 | 5.10 | 4.62 | 4.61 | 5.68 | 6.39 | 4.89 | 5.64 | 5.60 |
| 21 WA10138-96 | 8.12 | 2.18 | 7.47 | 7.61 | 7.12 | 6.39 | 5.22 | 4.40 | 4.50 | 5.68 | 6.61 | 5.36 | 5.39 | 5.85 |
| 22 Legacy | 8.57 | 1.35 | 7.43 | 6.82 | 5.63 | 5.57 | 4.86 | 4.28 | 4.40 | 5.25 | 5.72 | 4.63 | 6.25 | 5.44 |
| 23 6B95-2482 | 8.61 | 1.54 | 8.19 | 7.12 | 5.28 | 5.24 | 4.86 | 4.24 | 4.80 | 4.62 | 6.16 | 4.20 | 5.50 | 5.41 |
| 24 6B95-2089 | 7.81 | 1.26 | 7.78 | 5.97 | 5.70 | 5.51 | 4.89 | 4.27 | 4.10 | 4.09 | 6.02 | 4.09 | 5.23 | 5.13 |
| 25 2B96-5057 | 7.64 | 1.52 | 7.30 | 8.22 | 6.00 | 6.18 | 4.64 | 4.48 | 3.94 | 5.17 | 6.19 | 4.71 | 4.73 | 5.44 |
| 26 2B97-4077 | 7.64 | 2.17 | 7.57 | 7.71 | 5.23 | 5.72 | 5.05 | 4.53 | 4.42 | 4.87 | 5.71 | 4.30 | 4.44 | 5.34 |
| 27 2B97-4299 | 7.97 | 1.98 | 7.21 | 8.06 | 6.07 | 6.72 | 5.24 | 4.26 | 4.91 | 5.48 | 6.47 | 4.90 | 5.96 | 5.79 |
| 28 CDC Copeland | 7.62 | 2.04 | 7.20 | 7.02 | 6.47 | 6.24 | 5.28 | 4.25 | 4.27 | 4.84 | 6.05 | 4.72 | 4.69 | 5.44 |
| 29 CDC Select | 7.65 | 2.07 | 6.27 | 7.27 | 5.93 | 6.10 | 4.95 | 4.35 | 4.27 | 5.05 | 6.46 | 4.64 | 5.09 | 5.39 |
| 30 TR 167 | 7.85 | 1.96 | 7.53 | 7.12 | 6.05 | 5.37 | 4.93 | 4.63 | 4.12 | 4.51 | 6.29 | 4.41 | 5.06 | 5.37 |
| 31 CDC Bold | 8.04 | 1.74 | 6.84 | 6.24 | 5.98 | 5.41 | 5.14 | 4.69 | 3.59 | 5.28 | 6.69 | 4.76 | 5.24 | 5.36 |
| 32 CDC Helgason | 7.71 | 2.02 | 7.58 | 7.01 | 6.42 | 4.82 | 4.84 | 4.46 | 4.65 | 5.57 | 6.06 | 5.06 | 5.34 | 5.50 |
| 33 MT960099 | 8.88 | 2.31 | 6.69 | 7.72 | 6.91 | 5.81 | 5.33 | 4.99 | 4.74 | 5.76 | 6.20 | 5.33 | 5.58 | 5.86 |
| 34 MT960228 | 7.51 | 2.43 | 7.44 | 6.51 | 6.65 | 5.59 | 5.23 | 5.31 | 4.50 | 5.27 | 6.54 | 5.00 | 5.64 | 5.66 |
| 35 MT970116 | 8.26 | 1.83 | 8.04 | 6.96 | 6.96 | 5.12 | 4.92 | 4.85 | 4.33 | 4.79 | 6.47 | 4.87 | 5.30 | 5.59 |
| 36 ND15422 | 8.71 | 1.48 | 7.84 | 6.90 | 6.42 | 5.38 | 4.79 | 3.80 | 4.77 | 4.09 | 5.77 | 4.35 | 5.45 | 5.36 |
| 37 Drummond | 8.31 | 1.21 | 7.71 | 6.44 | 5.96 | 4.97 | 4.71 | 3.81 | 4.21 | 4.38 | 6.02 | 4.32 | 6.56 | 5.28 |
| 38 95SR149C | 7.32 | 2.40 | 6.24 | 6.81 | 5.47 | 4.64 | 4.97 | 4.40 | 4.31 | 5.30 | 5.95 | 4.59 | 4.52 | 5.15 |
| 39 95SR316A | 7.24 | 1.73 | 7.25 | 6.95 | 5.77 | 3.53 | 5.23 | 4.18 | 4.07 | 5.42 | 6.37 | 4.76 | 5.09 | 5.20 |
| Average | 8.20 | 1.86 | 7.71 | 7.34 | 6.08 | 5.48 | 4.98 | 4.35 | 4.22 | 4.99 | 6.21 | 4.66 | 5.74 | 5.50 |
| LSD .05 | 0.023 | 0.012 | 0.040 | 0.018 | 0.019 | 0.025 | 0.008 | 0.010 | 0.010 | 0.019 | 0.008 | 0.019 | 0.019 | |
| C.V. | 10.38 | 25.09 | 17.90 | 9.58 | 10.53 | 15.36 | 5.10 | 8.70 | 9.00 | 14.45 | 4.59 | 29.92 | 10.90 | |
| Planting Date | 4/13/01 | 4-17-01 | 4/20/01 | 5-08-01 | 5/9/01 | 4/25/01 | 5/8/01 | 5/2/01 | 4/26/01 | 5/8/01 | 4/23/01 | 4/18/01 | - | |
| Harvest Date | - | 8-14-01 | 8/13/01 | 8-28-01 | 8/30/01 | 8/16/01 | 8/10/01 | - | - | 8/20/01 | 8/15/01 | 8/12/01 | - | |

Table 5: 2001 Western Regional Spring Barley, Test Weight (kg m⁻³)

| | Aberdeen | Bonnors Ferry | Moscow | Genesee | Manhattan | Fairfield | Williston | Fargo | Minot | Klamath Falls | Pullman | Logan | Powell | Average | |
|----|----------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|
| | ID | ID | ID | ID | MT | MT | ND | ND | ND | OR | WA | UT | WY | | |
| 1 | Steptoe | 644.1 | 610.6 | 636.4 | 636.4 | 638.9 | 555.2 | 546.2 | 605.4 | 618.3 | 676.3 | 632.9 | 611.7 | 622.2 | 618.0 |
| 2 | Baronesse | 690.5 | 649.2 | 658.3 | 658.3 | 696.9 | 633.8 | 637.6 | 644.1 | 644.1 | 695.6 | 679.3 | 875.0 | 667.3 | 679.2 |
| 3 | Morex | 650.5 | 619.6 | 647.9 | 647.9 | 658.9 | 532.0 | 587.4 | 618.3 | 605.4 | 669.8 | 666.8 | 859.0 | 676.3 | 649.2 |
| 4 | Stander | 680.1 | 619.6 | 668.6 | 668.6 | 692.4 | 568.1 | 613.2 | 631.2 | 657.0 | 695.6 | 674.1 | 868.4 | 657.0 | 668.8 |
| 5 | Harrington | 685.9 | 654.4 | 647.9 | 647.9 | 685.9 | 653.1 | 623.5 | 618.3 | 631.2 | 708.5 | 666.8 | 859.0 | 676.3 | 673.8 |
| 6 | PB1-95-2R-517 | 683.4 | 650.5 | 687.9 | 687.9 | 704.6 | 640.2 | 628.6 | 618.3 | 631.2 | 727.8 | 692.2 | 891.6 | 693.0 | 687.5 |
| 7 | PB1-95-2R-A629 | 696.9 | 657.0 | 676.3 | 676.3 | 716.2 | 637.6 | 632.5 | 631.2 | 644.1 | 695.6 | 690.5 | 889.4 | 666.0 | 685.3 |
| 8 | PB1-97-2R-7090 | 698.8 | 660.8 | 694.3 | 694.3 | 734.9 | 627.3 | 653.1 | 644.1 | 669.8 | 734.3 | 725.7 | 934.8 | 693.0 | 705.0 |
| 9 | BZ594-20 | 685.9 | 637.6 | 687.9 | 687.9 | 736.8 | 601.6 | 657.0 | 657.0 | 657.0 | 708.5 | 715.4 | 921.5 | 689.2 | 695.6 |
| 10 | BZ596-117 | 705.3 | 655.7 | 703.3 | 703.3 | 731.7 | 638.9 | 650.5 | 669.8 | 682.7 | 708.5 | 713.2 | 918.7 | 680.1 | 704.8 |
| 11 | BCD 47 | 688.5 | 633.8 | 678.9 | 678.9 | 696.9 | 579.7 | 620.9 | 618.3 | 592.6 | 682.7 | 688.7 | 887.2 | 655.7 | 669.4 |
| 12 | 93Ab688 | 658.9 | 619.6 | 635.1 | 635.1 | 660.2 | 582.2 | 575.8 | 605.4 | 592.6 | 669.8 | 625.2 | 805.3 | 628.6 | 638.0 |
| 13 | 92Ab5180 | 680.1 | 584.8 | 632.5 | 632.5 | 660.8 | 551.3 | 559.1 | 592.6 | 566.8 | 644.1 | 638.5 | 822.5 | 596.4 | 627.8 |
| 14 | UT003757 | 638.3 | 623.5 | 660.8 | 660.8 | 653.7 | 571.9 | 587.4 | 579.7 | 592.6 | 644.1 | 642.4 | 827.5 | 611.9 | 638.0 |
| 15 | UT004467 | 652.5 | 615.7 | 647.9 | 647.9 | 650.5 | 492.1 | 595.1 | 605.4 | 605.4 | 669.8 | 647.1 | 833.6 | 626.0 | 637.6 |
| 16 | UT95B1216-4087 | 665.3 | 627.3 | 657.0 | 657.0 | 677.6 | 524.3 | 602.9 | 631.2 | 644.1 | 708.5 | 670.7 | 864.0 | 641.5 | 659.3 |
| 17 | UT97B1480-1632 | 680.1 | 653.1 | 672.4 | 672.4 | 682.7 | 609.3 | 622.2 | 644.1 | 631.2 | 708.5 | 684.9 | 882.2 | 657.0 | 676.9 |
| 18 | WA8682-96 | 701.4 | 669.8 | 676.3 | 676.3 | 674.4 | 640.2 | 641.5 | 657.0 | 644.1 | 721.4 | 695.6 | 896.1 | 658.3 | 688.6 |
| 19 | WA8709-96 | 673.1 | 658.3 | 654.4 | 654.4 | 703.3 | 642.8 | 653.1 | 631.2 | 657.0 | 727.8 | 682.7 | 879.5 | 681.4 | 684.5 |
| 20 | WA10147-96 | 678.9 | 644.1 | 658.3 | 658.3 | 674.4 | 623.5 | 629.9 | 618.3 | 644.1 | 689.2 | 673.7 | 867.8 | 673.7 | 671.8 |
| 21 | WA10138-96 | 704.6 | 645.4 | 654.4 | 654.4 | 702.7 | 627.3 | 635.1 | 631.2 | 644.1 | 702.0 | 679.3 | 875.0 | 682.7 | 679.9 |
| 22 | Legacy | 669.8 | 627.3 | 645.4 | 645.4 | 663.4 | 548.8 | 593.8 | 618.3 | 618.3 | 669.8 | 641.1 | 825.8 | 649.2 | 647.4 |
| 23 | 6B95-2482 | 673.1 | 608.0 | 657.0 | 657.0 | 689.8 | 620.9 | 624.8 | 644.1 | 631.2 | 689.2 | 671.1 | 864.5 | 651.8 | 667.9 |
| 24 | 6B95-2089 | 668.6 | 601.6 | 655.7 | 655.7 | 673.7 | 507.5 | 626.0 | 631.2 | 644.1 | 695.6 | 682.7 | 879.5 | 655.7 | 659.8 |
| 25 | 2B96-5057 | 684.7 | 632.5 | 675.0 | 675.0 | 692.4 | 629.9 | 633.8 | 631.2 | 631.2 | 696.9 | 680.1 | 876.1 | 668.6 | 677.5 |
| 26 | 2B97-4077 | 688.5 | 647.9 | 669.8 | 669.8 | 694.3 | 632.5 | 645.4 | 631.2 | 631.2 | 682.7 | 682.3 | 878.9 | 668.6 | 678.7 |
| 27 | 2B97-4299 | 687.2 | 649.2 | 637.6 | 637.6 | 672.4 | 595.1 | 627.3 | 631.2 | 631.2 | 695.6 | 670.3 | 863.4 | 667.3 | 666.6 |
| 28 | CDC Copeland (TR150) | 698.2 | 641.5 | 653.1 | 653.1 | 684.0 | 623.5 | 617.0 | 618.3 | 618.3 | 682.7 | 690.9 | 890.0 | 689.2 | 673.8 |
| 29 | CDC Select | 696.9 | 659.5 | 678.9 | 678.9 | 700.1 | 560.4 | 618.3 | 618.3 | 631.2 | 695.6 | 684.0 | 881.1 | 671.1 | 674.9 |
| 30 | TR 167 | 685.3 | 666.0 | 677.6 | 677.6 | 696.9 | 628.6 | 640.2 | 631.2 | 618.3 | 702.0 | 681.9 | 878.4 | 690.5 | 682.6 |
| 31 | CDC Bold | 688.5 | 631.2 | 654.4 | 654.4 | 710.4 | 642.8 | 600.3 | 618.3 | 618.3 | 689.2 | 705.1 | 908.2 | 686.6 | 677.5 |
| 32 | CDC Helgason | 695.6 | 664.7 | 681.4 | 681.4 | 712.4 | 627.3 | 657.0 | 631.2 | 669.8 | 702.0 | 706.8 | 910.4 | 693.0 | 694.9 |
| 33 | MT960099 | 671.8 | 647.9 | 673.7 | 673.7 | 689.8 | 609.3 | 640.2 | 644.1 | 644.1 | 714.9 | 691.7 | 891.1 | 667.3 | 681.5 |
| 34 | MT960228 | 673.1 | 663.4 | 664.7 | 664.7 | 680.1 | 611.9 | 644.1 | 644.1 | 631.2 | 721.4 | 691.3 | 890.5 | 669.8 | 680.8 |
| 35 | MT970116 | 707.2 | 663.4 | 694.3 | 694.3 | 723.3 | 649.2 | 660.8 | 657.0 | 644.1 | 708.5 | 708.1 | 912.1 | 699.5 | 701.7 |
| 36 | ND15422 | 666.6 | 619.6 | 626.0 | 626.0 | 678.2 | 601.6 | 604.1 | 631.2 | 644.1 | 650.5 | 656.1 | 845.2 | 647.9 | 653.6 |
| 37 | Drummond | 660.8 | 614.5 | 663.4 | 663.4 | 696.9 | 575.8 | 599.0 | 618.3 | 631.2 | 669.8 | 671.6 | 865.1 | 650.5 | 660.0 |
| 38 | 95SR149C | 660.2 | 646.7 | 663.4 | 663.4 | 683.4 | 649.2 | 615.7 | 618.3 | 605.4 | 689.2 | 647.9 | 834.7 | 671.1 | 665.3 |
| 39 | 95SR316A | 684.7 | 659.5 | 675.0 | 675.0 | 711.1 | 644.1 | 638.9 | 657.0 | 644.1 | 721.4 | 692.6 | 892.2 | 684.0 | 690.7 |
| | Average | 679.6 | 639.4 | 663.7 | 663.7 | 689.4 | 602.3 | 621.5 | 628.9 | 631.9 | 694.0 | 678.0 | 873.3 | 664.5 | 671.1 |

Table 6: 2001 Western Regional Spring Barley, Plant Height (cm)

| | Aberdeen | Bonnars Ferry | Idaho Falls | Moscow | Tammany | Manhattan | Fairfield | Williston | Fargo | Minot | Klamath Falls | Pullman | Logan | Powell | Average |
|-------------------|-----------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|
| | ID | ID | ID | ID | ID | MT | MT | ND | ND | ND | OR | WA | UT | WY | |
| 1 Steptoe | 93 | 46 | 94 | 86 | 69 | 81 | 81 | 65 | 76 | 87 | 61 | 78 | 51 | 74 | 74 |
| 2 Baronesse | 88 | 41 | 84 | 91 | 66 | 77 | 81 | 64 | 57 | 68 | 66 | 77 | 53 | 67 | 70 |
| 3 Morex | 97 | 48 | 102 | 104 | 79 | 91 | 104 | 69 | 81 | 86 | 71 | 105 | 64 | 79 | 84 |
| 4 Stander | 93 | 43 | 89 | 104 | 83 | 85 | 91 | 72 | 73 | 72 | 69 | 85 | 48 | 78 | 78 |
| 5 Harrington | 86 | 48 | 86 | 97 | 77 | 85 | 81 | 62 | 68 | 73 | 69 | 81 | 48 | 80 | 74 |
| 6 PB1-95-2R-517 | 89 | 43 | 91 | 97 | 75 | 88 | 86 | 61 | 73 | 85 | 58 | 85 | 56 | 71 | 76 |
| 7 PB1-95-2R-A629 | 87 | 46 | 86 | 94 | 74 | 84 | 89 | 73 | 72 | 77 | 61 | 86 | 53 | 75 | 76 |
| 8 PB1-97-2R-7090 | 91 | 48 | 94 | 89 | 71 | 83 | 91 | 60 | 65 | 78 | 64 | 79 | 53 | 73 | 74 |
| 9 BZ594-20 | 90 | 43 | 84 | 91 | 70 | 79 | 81 | 66 | 72 | 71 | 64 | 74 | 56 | 65 | 72 |
| 10 BZ596-117 | 97 | 46 | 86 | 99 | 74 | 84 | 84 | 63 | 66 | 68 | 58 | 79 | 43 | 79 | 73 |
| 11 BCD 47 | 74 | 41 | 79 | 81 | 66 | 65 | 69 | 55 | 55 | 62 | 56 | 74 | 51 | 59 | 63 |
| 12 93Ab688 | 95 | 46 | 86 | 89 | 79 | 86 | 99 | 71 | 71 | 73 | 64 | 81 | 46 | 71 | 75 |
| 13 92Ab5180 | 84 | 43 | 91 | 97 | 72 | 77 | 84 | 58 | 71 | 70 | 64 | 75 | 48 | 67 | 71 |
| 14 UT003757 | 83 | 43 | 79 | 91 | 69 | 79 | 81 | 60 | 69 | 75 | 64 | 73 | 51 | 69 | 70 |
| 15 UT004467 | 77 | 46 | 79 | 91 | 65 | 80 | 74 | 59 | 66 | 74 | 69 | 73 | 61 | 69 | 70 |
| 16 UT95B1216-4087 | 90 | 48 | 86 | 97 | 71 | 88 | 84 | 66 | 75 | 83 | 71 | 86 | 56 | 77 | 77 |
| 17 UT97B1480-1632 | 90 | 53 | 81 | 97 | 72 | 80 | 91 | 70 | 73 | 80 | 74 | 83 | 61 | 72 | 77 |
| 18 WA8682-96 | 86 | 46 | 84 | 97 | 75 | 83 | 91 | 64 | 75 | 69 | 64 | 84 | 51 | 75 | 74 |
| 19 WA8709-96 | 87 | 41 | 81 | 89 | 71 | 81 | 86 | 62 | 68 | 75 | 64 | 80 | 61 | 73 | 73 |
| 20 WA10147-96 | 84 | 43 | 84 | 91 | 71 | 75 | 86 | 58 | 63 | 76 | 64 | 74 | 53 | 65 | 71 |
| 21 WA10138-96 | 93 | 46 | 91 | 97 | 76 | 86 | 81 | 66 | 68 | 75 | 64 | 81 | 66 | 70 | 76 |
| 22 Legacy | 99 | 43 | 97 | 107 | 80 | 86 | 94 | 71 | 78 | 87 | 84 | 91 | 64 | 78 | 83 |
| 23 6B95-2482 | 98 | 46 | 104 | 102 | 80 | 91 | 91 | 75 | 76 | 81 | 74 | 94 | 58 | 82 | 82 |
| 24 6B95-2089 | 90 | 48 | 94 | 102 | 76 | 88 | 86 | 73 | 76 | 87 | 76 | 89 | 53 | 81 | 80 |
| 25 2B96-5057 | 83 | 43 | 91 | 94 | 66 | 76 | 74 | 63 | 65 | 69 | 69 | 79 | 58 | 70 | 71 |
| 26 2B97-4077 | 93 | 53 | 91 | 94 | 71 | 88 | 79 | 67 | 77 | 83 | 71 | 88 | 56 | 77 | 78 |
| 27 2B97-4299 | 90 | 46 | 94 | 94 | 72 | 85 | 81 | 61 | 70 | 74 | 71 | 84 | 66 | 72 | 76 |
| 28 CDC Copeland | 90 | 51 | 94 | 97 | 75 | 90 | 86 | 68 | 70 | 74 | 71 | 83 | 58 | 81 | 78 |
| 29 CDC Select | 90 | 48 | 97 | 97 | 72 | 91 | 86 | 67 | 68 | 75 | 66 | 80 | 61 | 78 | 77 |
| 30 TR 167 | 96 | 46 | 97 | 97 | 85 | 89 | 86 | 66 | 72 | 84 | 64 | 87 | 53 | 85 | 79 |
| 31 CDC Bold | 92 | 51 | 97 | 99 | 74 | 85 | 94 | 68 | 58 | 72 | 64 | 77 | 56 | 71 | 76 |
| 32 CDC Helgason | 96 | 46 | 91 | 99 | 78 | 88 | 86 | 64 | 66 | 87 | 69 | 79 | 48 | 77 | 77 |
| 33 MT960099 | 86 | 38 | 81 | 81 | 70 | 72 | 84 | 59 | 65 | 64 | 58 | 69 | 64 | 68 | 69 |
| 34 MT960228 | 83 | 43 | 84 | 91 | 68 | 88 | 91 | 71 | 73 | 77 | 64 | 81 | 64 | 76 | 75 |
| 35 MT970116 | 92 | 51 | 97 | 94 | 78 | 91 | 91 | 76 | 79 | 75 | 69 | 90 | 58 | 82 | 80 |
| 36 ND15422 | 91 | 43 | 97 | 97 | 76 | 85 | 99 | 67 | 70 | 78 | 69 | 91 | 53 | 77 | 78 |
| 37 Drummond | 93 | 48 | 102 | 99 | 77 | 88 | 102 | 77 | 73 | 83 | 69 | 93 | 53 | 84 | 81 |
| 38 95SR149C | 94 | 58 | 89 | 94 | 67 | 85 | 91 | 69 | 67 | 84 | 69 | 84 | 53 | 79 | 77 |
| 39 95SR316A | 98 | 48 | 97 | 99 | 90 | 88 | 79 | 68 | 69 | 88 | 69 | 81 | 64 | 79 | 80 |
| Average | 90 | 46 | 90 | 95 | 74 | 84 | 87 | 66 | 70 | 77 | 67 | 82 | 56 | 74 | 76 |

Table 7: 2001 Western Regional Spring Barley, Heading Date (Julian)

| | Aberdeen | Tammany | Bonnors Ferry | Moscow | Williston | Fargo | Minot | Klamath Falls | Pullman | Average | |
|----------------|----------------|------------|---------------|------------|------------|------------|------------|---------------|------------|------------|------------|
| | ID | ID | ID | ID | ND | ND | ND | OR | WA | | |
| 1 | Steptoe | 169 | 155 | 171 | 183 | 175 | 179 | 179 | 180 | 173 | 174 |
| 2 | Baronesse | 175 | 159 | 185 | 187 | 182 | 184 | 181 | 184 | 178 | 179 |
| 3 | Morex | 168 | 155 | 172 | 183 | 179 | 179 | 179 | 180 | 174 | 174 |
| 4 | Stander | 169 | 159 | 176 | 184 | 179 | 179 | 179 | 183 | 174 | 176 |
| 5 | Harrington | 176 | 159 | 179 | 189 | 182 | 184 | 181 | 185 | 178 | 179 |
| 6 | PB1-95-2R-517 | 176 | 155 | 178 | 185 | 180 | 182 | 180 | 183 | 178 | 177 |
| 7 | PB1-95-2R-A629 | 174 | 155 | 173 | 184 | 179 | 180 | 178 | 181 | 176 | 176 |
| 8 | PB1-97-2R-7090 | 175 | 159 | 176 | 187 | 182 | 183 | 181 | 183 | 177 | 178 |
| 9 | BZ594-20 | 173 | 154 | 177 | 183 | 178 | 179 | 181 | 183 | 175 | 176 |
| 10 | BZ596-117 | 173 | 158 | 175 | 186 | 180 | 184 | 181 | 183 | 176 | 177 |
| 11 | BCD 47 | 173 | 158 | 174 | 185 | 182 | 185 | 182 | 183 | 177 | 178 |
| 12 | 93Ab688 | 169 | 154 | 174 | 184 | 179 | 179 | 178 | 179 | 178 | 175 |
| 13 | 92Ab5180 | 168 | 155 | 172 | 184 | 177 | 178 | 179 | 180 | 176 | 174 |
| 14 | UT003757 | 166 | 154 | 172 | 182 | 176 | 179 | 179 | 179 | 175 | 174 |
| 15 | UT004467 | 165 | 153 | 173 | 181 | 177 | 179 | 178 | 178 | 173 | 173 |
| 16 | UT95B1216-4087 | 169 | 155 | 174 | 184 | 178 | 180 | 178 | 180 | 176 | 175 |
| 17 | UT97B1480-1632 | 164 | 153 | 170 | 180 | 175 | 176 | 177 | 179 | 174 | 172 |
| 18 | WA8682-96 | 176 | 155 | 178 | 185 | 180 | 182 | 180 | 183 | 177 | 177 |
| 19 | WA8709-96 | 175 | 160 | 177 | 188 | 182 | 184 | 181 | 183 | 177 | 179 |
| 20 | WA10147-96 | 176 | 159 | 178 | 187 | 181 | 184 | 181 | 184 | 178 | 179 |
| 21 | WA10138-96 | 174 | 155 | 178 | 185 | 181 | 181 | 179 | 181 | 177 | 177 |
| 22 | Legacy | 170 | 155 | 176 | 185 | 179 | 180 | 181 | 183 | 177 | 176 |
| 23 | 6B95-2482 | 170 | 159 | 175 | 185 | 179 | 180 | 178 | 180 | 175 | 176 |
| 24 | 6B95-2089 | 170 | 155 | 176 | 184 | 178 | 178 | 180 | 181 | 177 | 175 |
| 25 | 2B96-5057 | 177 | 160 | 187 | 188 | 182 | 185 | 181 | 185 | 177 | 180 |
| 26 | 2B97-4077 | 177 | 160 | 182 | 188 | 183 | 183 | 181 | 185 | 178 | 180 |
| 27 | 2B97-4299 | 178 | 159 | 180 | 188 | 182 | 184 | 181 | 184 | 178 | 179 |
| 28 | CDC Copeland | 176 | 159 | 182 | 190 | 184 | 185 | 181 | 185 | 182 | 180 |
| 29 | CDC Select | 175 | 157 | 178 | 186 | 181 | 183 | 181 | 183 | 178 | 178 |
| 30 | TR 167 | 174 | 158 | 177 | 185 | 180 | 182 | 180 | 183 | 177 | 177 |
| 31 | CDC Bold | 173 | 158 | 176 | 185 | 181 | 184 | 181 | 184 | 180 | 178 |
| 32 | CDC Helgason | 175 | 159 | 179 | 187 | 182 | 184 | 181 | 185 | 177 | 179 |
| 33 | MT960099 | 176 | 159 | 188 | 187 | 181 | 184 | 181 | 183 | 179 | 180 |
| 34 | MT960228 | 176 | 159 | 180 | 185 | 181 | 182 | 181 | 184 | 179 | 179 |
| 35 | MT970116 | 172 | 158 | 178 | 185 | 179 | 181 | 181 | 183 | 176 | 177 |
| 36 | ND15422 | 170 | 159 | 173 | 185 | 179 | 180 | 179 | 182 | 177 | 176 |
| 37 | Drummond | 169 | 159 | 172 | 184 | 178 | 179 | 180 | 180 | 175 | 175 |
| 38 | 95SR149C | 177 | 160 | 182 | 191 | 184 | 186 | 182 | 185 | 178 | 181 |
| 39 | 95SR316A | 177 | 163 | 181 | 190 | 183 | 185 | 182 | 185 | 179 | 180 |
| Average | | 173 | 157 | 177 | 185 | 180 | 182 | 180 | 182 | 177 | 177 |

Table 8: 2001 Western Regional Spring Barley, Percent Plump Barley

| | Aberdeen | Bonnars Ferry | Moscow | Manhattan | Fairfield | Fargo | Williston | Klamath Falls | Pullman | Powell | Average | Average * |
|-------------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|
| | ID | ID | ID | MT | MT | ND | ND | OR | WA | WY | | |
| 1 Steptoe | 92 | 84 | 85 | 83 | 96 | 86 | 90 | 95 | 90 | 96 | 90 | 90 |
| 2 Baronesse | 96 | 87 | 77 | 76 | 98 | 92 | 92 | 91 | 90 | 93 | 89 | 89 |
| 3 Morex | 88 | 80 | 70 | 63 | 91 | 88 | 92 | 92 | 86 | 97 | 85 | 85 |
| 4 Stander | 94 | 76 | 79 | 81 | 96 | 92 | 93 | 94 | 90 | 97 | 89 | 89 |
| 5 Harrington | 99 | 75 | 50 | 79 | 97 | 89 | 92 | 91 | 89 | 97 | 86 | 85 |
| 6 PB1-95-2R-517 | 97 | 87 | 84 | 89 | 97 | 89 | 90 | 90 | 98 | 98 | 92 | 91 |
| 7 PB1-95-2R-A629 | 98 | 86 | 81 | 93 | 97 | 84 | 91 | 95 | 94 | 97 | 91 | 91 |
| 8 PB1-97-2R-7090 | 97 | 86 | 84 | 96 | 98 | 91 | 95 | 92 | 97 | 99 | 93 | 93 |
| 9 BZ594-20 | 96 | 88 | 87 | 97 | 99 | 94 | 97 | 91 | 98 | 99 | 95 | 94 |
| 10 BZ596-117 | 97 | 88 | 89 | 96 | 98 | 93 | 96 | 89 | 96 | 96 | 94 | 93 |
| 11 BCD 47 | 97 | 75 | 84 | 91 | 97 | 86 | 88 | 89 | 99 | 93 | 90 | 89 |
| 12 93Ab688 | 87 | 77 | 56 | 54 | 91 | 69 | 67 | 91 | 55 | 83 | 73 | 75 |
| 13 92Ab5180 | 93 | 81 | 72 | 63 | 87 | 83 | 73 | 47 | 71 | 65 | 74 | 74 |
| 14 UT003757 | 87 | 74 | 75 | 79 | 90 | 71 | 74 | 83 | 62 | 85 | 78 | 80 |
| 15 UT004467 | 78 | 65 | 54 | 57 | 86 | 62 | 68 | 83 | 75 | 77 | 70 | 70 |
| 16 UT95B1216-4087 | 96 | 84 | 75 | 75 | 91 | 88 | 84 | 94 | 84 | 93 | 86 | 87 |
| 17 UT97B1480-1632 | 91 | 92 | 80 | 77 | 93 | 89 | 87 | 97 | 88 | 95 | 89 | 89 |
| 18 WA8682-96 | 99 | 88 | 78 | 69 | 98 | 93 | 94 | 95 | 96 | 92 | 90 | 89 |
| 19 WA8709-96 | 91 | 90 | 69 | 85 | 98 | 94 | 95 | 97 | 92 | 96 | 91 | 90 |
| 20 WA10147-96 | 97 | 89 | 78 | 81 | 98 | 94 | 94 | 93 | 91 | 96 | 91 | 91 |
| 21 WA10138-96 | 98 | 88 | 76 | 90 | 98 | 91 | 95 | 92 | 94 | 97 | 92 | 92 |
| 22 Legacy | 94 | 77 | 65 | 70 | 94 | 90 | 88 | 97 | 77 | 95 | 85 | 85 |
| 23 6B95-2482 | 95 | 76 | 79 | 92 | 97 | 94 | 94 | 93 | 91 | 96 | 91 | 91 |
| 24 6B95-2089 | 97 | 72 | 76 | 73 | 94 | 89 | 92 | 93 | 92 | 97 | 87 | 87 |
| 25 2B96-5057 | 96 | 84 | 86 | 88 | 98 | 93 | 95 | 94 | 96 | 98 | 93 | 92 |
| 26 2B97-4077 | 88 | 87 | 71 | 78 | 98 | 86 | 91 | 88 | 92 | 97 | 88 | 87 |
| 27 2B97-4299 | 97 | 88 | 68 | 82 | 97 | 90 | 92 | 91 | 84 | 98 | 89 | 89 |
| 28 CDC Copeland | 99 | 87 | 74 | 80 | 98 | 88 | 92 | 95 | 94 | 97 | 90 | 90 |
| 29 CDC Select | 96 | 87 | 85 | 87 | 98 | 90 | 91 | 96 | 93 | 98 | 92 | 92 |
| 30 TR 167 | 98 | 90 | 85 | 89 | 99 | 92 | 94 | 96 | 90 | 98 | 93 | 93 |
| 31 CDC Bold | 92 | 78 | 70 | 87 | 94 | 78 | 86 | 87 | 94 | 95 | 86 | 85 |
| 32 CDC Helgason | 96 | 85 | 80 | 77 | 98 | 89 | 92 | 92 | 91 | 97 | 90 | 89 |
| 33 MT960099 | 85 | 76 | 76 | 63 | 95 | 82 | 86 | 85 | 84 | 90 | 82 | 82 |
| 34 MT960228 | 92 | 89 | 71 | 76 | 97 | 90 | 92 | 92 | 91 | 93 | 88 | 88 |
| 35 MT970116 | 97 | 87 | 85 | 95 | 98 | 93 | 95 | 93 | 97 | 98 | 94 | 93 |
| 36 ND15422 | 96 | 83 | 64 | 87 | 97 | 92 | 93 | 95 | 88 | 96 | 89 | 89 |
| 37 Drummond | 96 | 80 | 73 | 94 | 96 | 93 | 91 | 96 | 91 | 95 | 90 | 90 |
| 38 95SR149C | 84 | 85 | 74 | 72 | 95 | 80 | 85 | 94 | - | 96 | - | 85 |
| 39 95SR316A | 86 | 87 | 70 | 85 | 98 | 87 | 88 | 88 | 94 | 96 | 88 | 87 |
| Average | 93 | 83 | 75 | 81 | | 88 | 89 | 91 | 89 | 94 | 88 | 87 |

* excludes Pullman WA

Table 9: 2001 Western Regional Spring Barley, Percent Thin Barley

| | Aberdeen | Bonnars Ferry | Moscow | Manhattan | Fairfield | Fargo | Williston | Klamath Falls | Pullman | Powell | Average | Average * |
|-------------------|----------|---------------|----------|-----------|-----------|----------|-----------|---------------|----------|----------|----------|-----------|
| | ID | ID | ID | MT | MT | ND | ND | OR | WA | WY | | |
| 1 Steptoe | 2 | 8 | 5 | 3 | 1 | 2 | 3 | 1 | 4 | 2 | 3 | 3 |
| 2 Baronesse | 1 | 6 | 8 | 7 | 0 | 2 | 3 | 3 | 3 | 2 | 4 | 4 |
| 3 Morex | 2 | 9 | 10 | 11 | 1 | 1 | 2 | 2 | 4 | 1 | 4 | 4 |
| 4 Stander | 1 | 12 | 7 | 5 | 0 | 2 | 2 | 2 | 2 | 1 | 3 | 3 |
| 5 Harrington | 0 | 10 | 23 | 5 | 0 | 2 | 3 | 2 | 3 | 1 | 5 | 5 |
| 6 PB1-95-2R-517 | 1 | 7 | 5 | 3 | 0 | 1 | 3 | 3 | 1 | 1 | 2 | 3 |
| 7 PB1-95-2R-A629 | 1 | 6 | 6 | 1 | 0 | 2 | 3 | 1 | 2 | 0 | 2 | 2 |
| 8 PB1-97-2R-7090 | 1 | 6 | 5 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 2 | 2 |
| 9 BZ594-20 | 1 | 6 | 6 | 1 | 0 | 2 | 1 | 3 | 1 | 0 | 2 | 2 |
| 10 BZ596-117 | 1 | 7 | 4 | 1 | 0 | 1 | 2 | 3 | 1 | 1 | 2 | 2 |
| 11 BCD 47 | 0 | 16 | 5 | 2 | 0 | 2 | 4 | 2 | 0 | 1 | 3 | 4 |
| 12 93Ab688 | 4 | 10 | 17 | 15 | 1 | 4 | 13 | 3 | 15 | 2 | 8 | 8 |
| 13 92Ab5180 | 2 | 9 | 8 | 12 | 1 | 3 | 9 | 17 | 10 | 21 | 9 | 9 |
| 14 UT003757 | 4 | 10 | 8 | 7 | 1 | 7 | 10 | 5 | 15 | 3 | 7 | 6 |
| 15 UT004467 | 6 | 12 | 18 | 12 | 1 | 7 | 14 | 5 | 8 | 8 | 9 | 9 |
| 16 UT95B1216-4087 | 1 | 9 | 11 | 7 | 1 | 2 | 5 | 2 | 6 | 1 | 4 | 4 |
| 17 UT97B1480-1632 | 2 | 5 | 6 | 7 | 1 | 2 | 4 | 1 | 4 | 1 | 3 | 3 |
| 18 WA8682-96 | 0 | 6 | 9 | 14 | 0 | 2 | 2 | 2 | 1 | 2 | 4 | 4 |
| 19 WA8709-96 | 3 | 6 | 12 | 14 | 0 | 1 | 2 | 1 | 3 | 1 | 4 | 4 |
| 20 WA10147-96 | 1 | 7 | 8 | 6 | 0 | 1 | 2 | 2 | 2 | 1 | 3 | 3 |
| 21 WA10138-96 | 1 | 7 | 9 | 3 | 0 | 2 | 2 | 2 | 1 | 1 | 3 | 3 |
| 22 Legacy | 1 | 10 | 14 | 9 | 0 | 1 | 3 | 1 | 7 | 1 | 5 | 4 |
| 23 6B95-2482 | 0 | 11 | 7 | 1 | 0 | 1 | 1 | 2 | 2 | 0 | 2 | 3 |
| 24 6B95-2089 | 0 | 15 | 7 | 7 | 0 | 1 | 2 | 1 | 1 | 1 | 4 | 4 |
| 25 2B96-5057 | 1 | 11 | 5 | 4 | 0 | 2 | 2 | 2 | 2 | 1 | 3 | 3 |
| 26 2B97-4077 | 5 | 6 | 11 | 6 | 0 | 2 | 3 | 3 | 3 | 1 | 4 | 4 |
| 27 2B97-4299 | 1 | 6 | 12 | 6 | 0 | 2 | 3 | 3 | 6 | 1 | 4 | 4 |
| 28 CDC Copeland | 0 | 7 | 10 | 6 | 0 | 2 | 3 | 1 | 2 | 1 | 3 | 3 |
| 29 CDC Select | 1 | 7 | 5 | 3 | 0 | 2 | 3 | 1 | 2 | 0 | 2 | 2 |
| 30 TR 167 | 1 | 6 | 6 | 4 | 0 | 2 | 2 | 1 | 3 | 0 | 2 | 2 |
| 31 CDC Bold | 2 | 12 | 12 | 4 | 0 | 4 | 5 | 3 | 2 | 2 | 5 | 5 |
| 32 CDC Helgason | 1 | 7 | 7 | 3 | 0 | 1 | 3 | 2 | 3 | 1 | 3 | 3 |
| 33 MT960099 | 5 | 9 | 7 | 11 | 1 | 3 | 6 | 4 | 5 | 2 | 5 | 5 |
| 34 MT960228 | 2 | 5 | 14 | 10 | 0 | 1 | 3 | 2 | 3 | 1 | 4 | 4 |
| 35 MT970116 | 1 | 8 | 4 | 1 | 0 | 1 | 2 | 2 | 0 | 0 | 2 | 2 |
| 36 ND15422 | 0 | 10 | 15 | 3 | 0 | 1 | 2 | 1 | 3 | 1 | 4 | 4 |
| 37 Drummond | 1 | 12 | 10 | 1 | 0 | 1 | 2 | 1 | 3 | 2 | 3 | 3 |
| 38 95SR149C | 5 | 7 | 9 | 10 | 1 | 3 | 6 | 1 | - | 1 | - | 5 |
| 39 95SR316A | 5 | 7 | 11 | 5 | 0 | 3 | 5 | 4 | 2 | 1 | 4 | 4 |
| Average | 1 | 8 | 9 | 6 | | 2 | 4 | 2 | 4 | 2 | 4 | 4 |

* excludes Pullman WA

Table 10: 2001 Western Regional Spring Barley, Percent Lodging

| | Aberdeen | Idaho Falls | Moscow | Tammany | Manhattan | Fargo | Williston | Klamath Falls | Powell | |
|-------------------|-----------|-------------|----------|-----------|-----------|----------|-----------|---------------|----------|----------|
| | ID | ID | ID | ID | MT | ND | ND | OR | WY | WY |
| | (%) | (%) | (1-9) | (%) | (%) | (1-5) | (%) | | Lodges | Lodgei |
| 1 Steptoe | 83 | 0 | 7 | 40 | 43 | 4.0 | 23 | 0 | 4 | 2 |
| 2 Baronesse | 23 | 3 | 8 | 15 | 17 | 2.3 | 26 | 0 | 4 | 2 |
| 3 Morex | 75 | 5 | 9 | 50 | 97 | 4.7 | 3 | 0 | 3 | 1 |
| 4 Stander | 5 | 0 | 6 | 40 | 20 | 4.0 | 20 | 0 | 6 | 2 |
| 5 Harrington | 50 | 4 | 9 | 30 | 67 | 3.0 | 40 | 0 | 6 | 2 |
| 6 PB1-95-2R-517 | 13 | 0 | 8 | 10 | 30 | 3.0 | 13 | 0 | 1 | 1 |
| 7 PB1-95-2R-A629 | 5 | 1 | 8 | 25 | 60 | 3.0 | 38 | 0 | 4 | 1 |
| 8 PB1-97-2R-7090 | 8 | 0 | 6 | 10 | 3 | 2.7 | 0 | 0 | 4 | 1 |
| 9 BZ594-20 | 10 | 0 | 4 | 5 | 7 | 3.0 | 0 | 0 | 2 | 1 |
| 10 BZ596-117 | 3 | 0 | 7 | 8 | 0 | 3.0 | 10 | 0 | 4 | 1 |
| 11 BCD 47 | 3 | 0 | 5 | 8 | 30 | 1.0 | 18 | 0 | 5 | 2 |
| 12 93Ab688 | 60 | 0 | 6 | 10 | 40 | 4.0 | 8 | 0 | 4 | 2 |
| 13 92Ab5180 | 10 | 0 | 3 | 8 | 0 | 3.7 | 0 | 0 | 2 | 1 |
| 14 UT003757 | 0 | 0 | 3 | 8 | 0 | 3.0 | 5 | 0 | 1 | 1 |
| 15 UT004467 | 0 | 0 | 6 | 8 | 0 | 2.7 | 5 | 0 | 1 | 1 |
| 16 UT95B1216-4087 | 15 | 0 | 7 | 15 | 0 | 4.3 | 23 | 0 | 2 | 1 |
| 17 UT97B1480-1632 | 18 | 0 | 7 | 30 | 17 | 4.3 | 8 | 0 | 1 | 1 |
| 18 WA8682-96 | 19 | 6 | 9 | 10 | 77 | 2.7 | 3 | 0 | 6 | 2 |
| 19 WA8709-96 | 55 | 4 | 7 | 5 | 13 | 2.3 | 5 | 0 | 4 | 2 |
| 20 WA10147-96 | 3 | 2 | 7 | 15 | 33 | 3.0 | 1 | 0 | 2 | 1 |
| 21 WA10138-96 | 3 | 0 | 8 | 10 | 30 | 2.7 | 3 | 0 | 3 | 1 |
| 22 Legacy | 70 | 0 | 8 | 30 | 47 | 4.3 | 23 | 0 | 5 | 2 |
| 23 6B95-2482 | 13 | 0 | 7 | 30 | 33 | 4.0 | 5 | 0 | 5 | 3 |
| 24 6B95-2089 | 33 | 0 | 8 | 25 | 77 | 4.0 | 10 | 0 | 5 | 2 |
| 25 2B96-5057 | 53 | 0 | 5 | 20 | 0 | 4.0 | 0 | 0 | 6 | 2 |
| 26 2B97-4077 | 33 | 1 | 8 | 25 | 27 | 3.3 | 1 | 0 | 2 | 1 |
| 27 2B97-4299 | 29 | 3 | 7 | 25 | 23 | 2.7 | 0 | 0 | 5 | 1 |
| 28 CDC Copeland | 40 | 1 | 8 | 25 | 43 | 3.0 | 8 | 0 | 3 | 1 |
| 29 CDC Select | 43 | 2 | 7 | 10 | 27 | 3.7 | 5 | 0 | 5 | 2 |
| 30 TR 167 | 36 | 2 | 8 | 15 | 70 | 3.0 | 3 | 0 | 4 | 2 |
| 31 CDC Bold | 38 | 3 | 8 | 25 | 20 | 3.0 | 23 | 0 | 6 | 2 |
| 32 CDC Helgason | 45 | 1 | 8 | 20 | 40 | 4.0 | 4 | 0 | 2 | 1 |
| 33 MT960099 | 33 | 0 | 7 | 10 | 27 | 3.0 | 0 | 0 | 7 | 2 |
| 34 MT960228 | 83 | 3 | 9 | 8 | 87 | 3.0 | 5 | 0 | 7 | 3 |
| 35 MT970116 | 38 | 0 | 6 | 8 | 23 | 3.7 | 5 | 0 | 7 | 2 |
| 36 ND15422 | 8 | 1 | 8 | 15 | 40 | 3.0 | 4 | 0 | 5 | 3 |
| 37 Drummond | 3 | 0 | 7 | 12 | 0 | 3.3 | 5 | 0 | 4 | 2 |
| 38 95SR149C | 78 | 5 | 8 | 12 | 27 | 4.7 | 15 | 0 | 7 | 3 |
| 39 95SR316A | 60 | 5 | 7 | 20 | 0 | 3.0 | 8 | 0 | 7 | 2 |
| Average | 30 | 1 | 7 | 18 | 31 | 3 | 9 | 0 | 4 | 2 |

WESTERN REGIONAL SPRING DRYLAND BARLEY NURSERY, 2001

This nursery is intended to be grown on dryland. It contains both 2- and 6-rowed feed and malting barley.

Locations in the 2001 nursery that were harvested and summarized for yield from 6 locations are:

| | |
|----------------|---------------|
| Tetonia, ID | Bozeman, MT |
| Gennessee, ID | Williston, ND |
| Blue Creek, UT | Fargo, ND |

General Information

The entry list for the 2001 Western Regional Dryland Spring Barley Nursery is shown in Table 11. In 2001, commercial cultivars were again entered into the nursery, including those from: Busch Agricultural Resources (6 lines).

There were 27 entries in this nursery in 2001. Entries in the 2000 test that were dropped in 2001 were: WA9504-94, MT910189, all tested 3 years; 2ND16161, 2ND16453, 95Ab13058, BA6B94-8253, MTLB-05, Valier (MTLB-30), WA11825-95, WPD-BZ594-35, all tested 2 Years; 2ND17275, BA2B96-5038, BA2B96-5119, and WA11801-95, all tested 1 year. New entries in the test were: 95M4623, 97Ab7973, 98Ab11993, 6B95-2482, 6B95-2089, 2B96-5057, 2B97-4077, 2B97-4299, MT960099, MT960228, MT970116, and 95SR7A.

Data Analysis

Computer software, in Lotus and Excel format, was used to obtain the cultivar means and period of years summary for all characteristics. With this software, we were also able to calculate the coefficient of variation (C.V.) and the Least Significant Difference (LSD) at the .05 level for grain yield. These two statistics are included to provide some indication of the variability in the individual test locations and an indication of cultivar rank at each location and the overall average.

Data Highlights

Seasonal measurements for the check cultivars Munsing, Clark, and Steptoe (Table 12), for 1980 through 2001, show that the check mean grain yield value for the 2001 season was higher than average. Test weight, percent plump barley and plant height were higher than the mean, and heading date was 11.8 days earlier than the mean.

In 2001 the highest yielding line over locations was UT95B1216-4087, a six-rowed feed barley, at 5.12 Mg ha⁻¹ (Table 13). UT4988 was the second highest yielding line over all locations, and MT960228 was ranked fourth. Both are six-rowed feed barley cultivars. BARI

2B97-4077 was the highest yielding malting barley, ranked third at 5.01 Mg ha⁻¹, and BARI 2B97-4299 was ranked fifth at 4.93 Mg ha⁻¹. Four of the top ten yielding lines were malting types.

Tables 14 through 20 present the 2001 data for individual locations for grain yield, test weight, height, heading date, plumps, thins, and lodging, respectively.

Table 11. 2001 Western Regional Dryland Spring Barley Entries

| Seed Source | Entry No. | Entry | Parentage | Type | Grade |
|-------------|-----------|----------------|----------------------------|-------|--------------|
| | 1 | Munsing | | 2 row | feed |
| | 2 | Steptoe | | 6 row | feed |
| | 3 | Clark | | 2 row | feed |
| | 4 | Hector | | 2 row | feed |
| USDA-ARS | 5 | 91Ab3148 | Gallatin/78Ab10099//Bowman | 2 row | feed |
| USDA-ARS | 6 | 93Ab688 | M44/80Ab4652//79Ab10719 | 6 row | feed |
| USDA-ARS | 7 | 95Ab11469 | 87Ab9561/ND9870 | 2 row | feed |
| USDA-ARS | 8 | * 95M4623 | 91Ab3074/85Ab2323 | 2 row | malting |
| USDA-ARS | 9 | * 97Ab7973 | 90Ab241/Baronesse | 2 row | malting |
| USDA-ARS | 10 | * 98Ab11993 | 90Ab241/Baronesse | 2 row | malting |
| USU | 11 | UT95B1216-4087 | UT84B427-2507/OR3 | 6 row | feed |
| USU | 12 | UT5828 | UT87B604-1705/OR2 | 6 row | feed |
| USU | 13 | UT4938 | Century/Medallion | 6 row | feed |
| USU | 14 | UT4988 | Century/Medallion | 6 row | feed |
| USU | 15 | UT4990 | Century/Medallion | 6 row | feed |
| BARI | 16 | Legacy | 6B86-3517/Excel | 6 row | malting |
| BARI | 17 | * 6B95-2482 | 6B89-2126/ND10981 | 6 row | malting |
| BARI | 18 | * 6B95-2089 | 6B84-2912/B1601/6B88-3213 | 6 row | malting |
| BARI | 19 | * 2B96-5057 | B1215/B88-5336 | 2 row | malting |
| BARI | 20 | * 2B97-4077 | B1215/2B91-4947 | 2 row | malting |
| BARI | 21 | * 2B97-4299 | 2B91-4947/2B91-4450 | 2 row | malting |
| CDC | 22 | CDC Bold | | 2 row | feed |
| CDC | 23 | CDC Helgason | | 2 row | feed |
| MSU | 24 | * MT960099 | Manley/Baronesse | 2 row | feed/malting |
| MSU | 25 | * MT960228 | Stark/ Baronesse | 2 row | feed |
| MSU | 26 | * MT970116 | Klages/Baronesse | 2 row | feed/malting |
| USDA-ARA | 27 | * 95SR7A | Bancroft/Targhee | 2 row | feed |

*New entries

Table 12. Western Regional Dryland Spring Barley Nursery, Seasonal Measurements (1980-2001)

Average of Cultivars Munsing, Steptoe, Clark

| Yield | | |
|-------|---------------|---------------------|
| Year | Station Years | Mg ha ⁻¹ |
| 1997 | 8 | 4.63 |
| 1996 | 9 | 4.56 |
| 1998 | 10 | 4.44 |
| 1995 | 9 | 4.33 |
| 2000 | 7 | 4.22 |
| 2001 | 6 | 4.11 |
| 1982 | 14 | 4.02 |
| 1987 | 13 | 4.02 |
| 1999 | 9 | 3.94 |
| 1993 | 7 | 3.90 |
| 1980 | 15 | 3.78 |
| 1994 | 9 | 3.77 |
| 1991 | 9 | 3.73 |
| 1981 | 17 | 3.61 |
| 1986 | 14 | 3.58 |
| 1992 | 8 | 3.42 |
| 1983 | 14 | 3.15 |
| 1990 | 10 | 3.13 |
| 1984 | 16 | 3.09 |
| 1989 | 10 | 2.75 |
| 1988 | 11 | 2.39 |
| 1985 | 18 | 2.19 |
| Ave | | 3.46 |

| Test Weight | | |
|-------------|---------------|--------------------|
| Year | Station Years | kg m ⁻³ |
| 1980 | 15 | 665 |
| 1987 | 12 | 664 |
| 1982 | 13 | 658 |
| 1996 | 7 | 656 |
| 1988 | 11 | 654 |
| 1990 | 10 | 653 |
| 1983 | 14 | 652 |
| 1986 | 13 | 648 |
| 2000 | 6 | 646 |
| 1992 | 8 | 643 |
| 1989 | 10 | 642 |
| 1984 | 14 | 638 |
| 1997 | 6 | 635 |
| 1998 | 9 | 634 |
| 1995 | 9 | 631 |
| 2001 | 6 | 630 |
| 1993 | 4 | 625 |
| 1994 | 9 | 624 |
| 1985 | 16 | 622 |
| 1999 | 8 | 622 |
| 1981 | 16 | 621 |
| 1991 | 9 | 616 |
| Ave | | 618.9 |

| Plump | | |
|-------|---------------|-------|
| Year | Station Years | % |
| 1987 | 11 | 89.7 |
| 1997 | 5 | 86.6 |
| 1996 | 6 | 85.1 |
| 1995 | 5 | 84.6 |
| 1993 | 3 | 84.5 |
| 1986 | 12 | 83.1 |
| 2000 | 5 | 82.1 |
| 1980 | 9 | 82.1 |
| 1982 | 10 | 80.3 |
| 2001 | 5 | 79.7 |
| 1983 | 12 | 77.3 |
| 1998 | 7 | 76.9 |
| 1999 | 7 | 73.2 |
| 1998 | 8 | 71.8 |
| 1992 | 7 | 70.5 |
| 1981 | 11 | 64.4 |
| 1989 | 8 | 59.9 |
| 1994 | 8 | 59.8 |
| 1990 | 8 | 59.5 |
| 1991 | 7 | 59.1 |
| 1984 | 11 | 58.9 |
| 1985 | 13 | 44.9 |
| Ave | | 69.52 |

| Plant Height | | |
|--------------|---------------|-------|
| Year | Station Years | cm |
| 1998 | 9 | 78.9 |
| 1981 | 13 | 73.3 |
| 1993 | 6 | 72.8 |
| 1991 | 9 | 72.5 |
| 1994 | 9 | 72.3 |
| 1999 | 8 | 70.5 |
| 1982 | 11 | 69.9 |
| 1997 | 7 | 69.3 |
| 2001 | 5 | 68.8 |
| 1983 | 10 | 65.8 |
| 1995 | 8 | 65.7 |
| 1980 | 10 | 64.9 |
| 1984 | 13 | 64.9 |
| 1990 | 9 | 64.6 |
| 1996 | 8 | 64.6 |
| 2000 | 6 | 62.7 |
| 1987 | 13 | 62.2 |
| 1986 | 11 | 61.2 |
| 1992 | 8 | 60.5 |
| 1989 | 9 | 59.0 |
| 1985 | 17 | 53.0 |
| 1988 | 11 | 51.6 |
| Ave | | 62.62 |

| Heading date | | |
|--------------|---------------|--------|
| Year | Station Years | Julian |
| 1996 | 8 | 188 |
| 1999 | 5 | 187 |
| 1995 | 8 | 185 |
| 2000 | 6 | 184 |
| 1982 | 9 | 183 |
| 1997 | 6 | 183 |
| 1998 | 8 | 182 |
| 1993 | 6 | 181 |
| 2001 | 5 | 182 |
| 1991 | 8 | 180 |
| 1983 | 10 | 179 |
| 1984 | 10 | 179 |
| 1989 | 8 | 179 |
| 1990 | 9 | 179 |
| 1988 | 7 | 178 |
| 1994 | 8 | 178 |
| 1992 | 7 | 177 |
| 1981 | 12 | 176 |
| 1986 | 9 | 176 |
| 1980 | 9 | 171 |
| 1985 | 9 | 171 |
| 1987 | 9 | 170 |
| Ave | | 170.2 |

Table 13. 2001 Western Regional Dryland Spring Barley Means Summary

| Entry | Yield | | | Test Weight | | | Heading | Height | | Plump | |
|----------------------|-------------|---------------------|------|-------------|--------------------|------|------------|-----------|-----------|-----------|----------|
| | lb/A | Mg ha ⁻¹ | rank | lb/bu | kg m ⁻³ | rank | Julian | in. | cm | >6/64 | Thin |
| no. of stations | 6 | | | 6 | | | 5 | 5 | | 5 | |
| Munsing | 3463 | 3.88 | 27 | 50.0 | 643.7 | 11 | 180 | 25 | 63 | 72 | 9 |
| Steptoe | 3947 | 4.42 | 22 | 46.8 | 602.3 | 27 | 179 | 28 | 72 | 84 | 5 |
| Clark | 3610 | 4.04 | 26 | 50.0 | 643.9 | 10 | 184 | 28 | 71 | 83 | 6 |
| Hector | 3937 | 4.41 | 24 | 50.0 | 644.1 | 9 | 184 | 30 | 76 | 77 | 7 |
| 91Ab3148 | 4149 | 4.65 | 19 | 49.6 | 638.3 | 13 | 183 | 28 | 72 | 89 | 3 |
| 93Ab688 | 4354 | 4.88 | 9 | 46.9 | 604.0 | 26 | 179 | 29 | 73 | 62 | 13 |
| 95Ab11469 | 4157 | 4.66 | 18 | 50.2 | 646.5 | 6 | 182 | 29 | 74 | 90 | 3 |
| 95M4623 | 4205 | 4.71 | 15 | 50.9 | 655.3 | 3 | 184 | 29 | 72 | 91 | 3 |
| 97Ab7973 | 4375 | 4.90 | 7 | 49.3 | 635.0 | 17 | 183 | 27 | 68 | 89 | 3 |
| 98Ab11993 | 4333 | 4.85 | 10 | 48.6 | 626.4 | 18 | 184 | 26 | 67 | 85 | 5 |
| UT95B1216-4087 | 4573 | 5.12 | 1 | 48.5 | 625.2 | 21 | 181 | 28 | 72 | 76 | 8 |
| UT5828 | 4165 | 4.66 | 17 | 46.9 | 604.7 | 25 | 180 | 30 | 76 | 89 | 2 |
| UT4938 | 4369 | 4.89 | 8 | 48.2 | 621.4 | 22 | 179 | 30 | 77 | 85 | 3 |
| UT4988 | 4507 | 5.05 | 2 | 47.7 | 614.8 | 24 | 180 | 30 | 76 | 87 | 3 |
| UT4990 | 4382 | 4.91 | 6 | 48.2 | 620.9 | 23 | 179 | 30 | 76 | 86 | 3 |
| Legacy (6B93-2978) | 3935 | 4.41 | 25 | 48.6 | 625.8 | 19 | 181 | 32 | 80 | 85 | 3 |
| 6B95-2482 | 4259 | 4.77 | 11 | 49.4 | 636.2 | 15 | 180 | 31 | 79 | 90 | 2 |
| 6B95-2089 | 4038 | 4.52 | 21 | 50.0 | 644.4 | 8 | 180 | 30 | 77 | 87 | 3 |
| 2B96-5057 | 4138 | 4.63 | 20 | 49.8 | 641.1 | 12 | 185 | 26 | 67 | 91 | 3 |
| 2B97-4077 | 4471 | 5.01 | 3 | 50.2 | 646.2 | 7 | 184 | 30 | 76 | 83 | 5 |
| 2B97-4299 | 4401 | 4.93 | 5 | 49.4 | 636.5 | 14 | 184 | 27 | 69 | 85 | 4 |
| CDC Bold | 3942 | 4.41 | 23 | 48.6 | 625.6 | 20 | 183 | 29 | 73 | 74 | 8 |
| CDC Helgason (TR346) | 4227 | 4.73 | 13 | 50.8 | 654.8 | 4 | 184 | 28 | 70 | 83 | 4 |
| MT960099 | 4183 | 4.68 | 16 | 52.2 | 672.7 | 1 | 185 | 25 | 63 | 70 | 11 |
| MT960228 | 4457 | 4.99 | 4 | 50.2 | 647.3 | 5 | 183 | 28 | 70 | 83 | 5 |
| MT970116 | 4217 | 4.72 | 14 | 51.2 | 659.0 | 2 | 182 | 31 | 79 | 91 | 3 |
| 95SR7A | 4237 | 4.74 | 12 | 49.4 | 635.8 | 16 | 184 | 27 | 68 | 83 | 6 |
| Average | 4186 | 4.69 | | 49.3 | 635.3 | | 182 | 29 | 72 | 83 | 5 |

Table 14. 2001 Western Regional Dryland Spring Barley, Yield (Mg ha⁻¹)

| | Gennesse | Tetonia | Bozeman | Blue Creek | Fargo | Williston | |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|
| | ID | ID | MT | UT | ND | ND | Average |
| 1 Munsing | 4.79 | 3.85 | 4.90 | 1.78 | 3.94 | 4.01 | 3.88 |
| 2 Steptoe | 5.31 | 3.86 | 6.22 | 1.65 | 4.48 | 5.00 | 4.42 |
| 3 Clark | 6.29 | 3.50 | 5.24 | 1.73 | 3.09 | 4.41 | 4.04 |
| 4 Hector | 6.50 | 3.73 | 5.85 | 1.66 | 4.00 | 4.72 | 4.41 |
| 5 91Ab3148 | 7.34 | 4.00 | 5.74 | 1.61 | 3.99 | 5.20 | 4.65 |
| 6 93Ab688 | 8.01 | 4.12 | 5.92 | 1.81 | 4.64 | 4.75 | 4.88 |
| 7 95Ab11469 | 6.28 | 3.89 | 6.58 | 1.77 | 4.19 | 5.23 | 4.66 |
| 8 95M4623 | 7.27 | 4.08 | 6.23 | 1.56 | 3.72 | 5.38 | 4.71 |
| 9 97Ab7973 | 7.73 | 4.28 | 6.07 | 1.63 | 4.56 | 5.11 | 4.90 |
| 10 98Ab11993 | 7.56 | 3.91 | 6.22 | 1.69 | 4.52 | 5.22 | 4.85 |
| 11 UT95B1216-4087 | 8.68 | 4.53 | 6.91 | 1.64 | 3.60 | 5.38 | 5.12 |
| 12 UT5828 | 7.66 | 3.83 | 6.50 | 1.74 | 3.34 | 4.92 | 4.66 |
| 13 UT4938 | 7.50 | 3.65 | 6.66 | 1.78 | 4.83 | 4.93 | 4.89 |
| 14 UT4988 | 7.50 | 3.64 | 6.59 | 2.11 | 5.17 | 5.27 | 5.05 |
| 15 UT4990 | 7.56 | 3.72 | 6.30 | 2.02 | 4.73 | 5.11 | 4.91 |
| 16 Legacy | 7.94 | 3.39 | 5.30 | 1.49 | 3.45 | 4.86 | 4.41 |
| 17 6B95-2482 | 7.90 | 3.51 | 6.28 | 1.45 | 4.02 | 5.45 | 4.77 |
| 18 6B95-2089 | 7.66 | 3.26 | 5.92 | 1.45 | 3.77 | 5.06 | 4.52 |
| 19 2B96-5057 | 7.63 | 3.35 | 6.32 | 1.48 | 4.24 | 4.78 | 4.63 |
| 20 2B97-4077 | 7.51 | 3.67 | 6.95 | 1.56 | 4.93 | 5.42 | 5.01 |
| 21 2B97-4299 | 7.29 | 3.69 | 6.74 | 1.46 | 4.84 | 5.56 | 4.93 |
| 22 CDC Bold | 7.06 | 3.57 | 5.07 | 1.43 | 4.17 | 5.18 | 4.41 |
| 23 CDC Helgason | 7.84 | 2.92 | 6.29 | 1.60 | 4.69 | 5.06 | 4.73 |
| 24 MT960099 | 6.72 | 3.55 | 6.57 | 1.52 | 4.56 | 5.19 | 4.68 |
| 25 MT960228 | 7.62 | 4.01 | 6.39 | 1.63 | 4.89 | 5.40 | 4.99 |
| 26 MT970116 | 6.37 | 3.50 | 6.70 | 1.51 | 4.77 | 5.48 | 4.72 |
| 27 95SR7A | 7.18 | 3.84 | 6.63 | 1.63 | 4.39 | 4.78 | 4.74 |
| Average | 7.21 | 3.73 | 6.19 | 1.64 | 4.28 | 5.07 | 4.69 |
| LSD .05 | 0.026 | 0.016 | 0.001 | 0.009 | 0.016 | 0.009 | |
| C.V. | 13.41 | 16.28 | 0.14 | 20.72 | 15.00 | 5.81 | |
| Planting Date | 5-08-01 | 5/30/01 | 4/18/01 | 4/18/01 | 5/2/01 | 5/8/01 | |
| Harvest Date | 8-28-01 | - | 8/89/01 | 8/14/01 | - | 8/8/01 | |

Table 15. 2001 Western Regional Dryland Spring Barley, Test Weight (kg m⁻³)

| | | Genessee | Tetonia | Bozeman | Blue Creek | Fargo | Williston | |
|----|----------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| | | ID | ID | MT | UT | ND | ND | Average |
| 1 | Munsing | 646.7 | 680.1 | 646.7 | 641.9 | 644.1 | 602.9 | 643.7 |
| 2 | Steptoe | 623.5 | 630.6 | 613.2 | 588.7 | 605.4 | 552.6 | 602.3 |
| 3 | Clark | 676.3 | 647.9 | 673.7 | 589.0 | 644.1 | 632.5 | 643.9 |
| 4 | Hector | 684.0 | 648.6 | 668.6 | 591.9 | 644.1 | 627.3 | 644.1 |
| 5 | 91Ab3148 | 681.4 | 642.8 | 641.5 | 604.5 | 631.2 | 628.6 | 638.3 |
| 6 | 93Ab688 | 641.5 | 650.5 | 609.3 | 540.2 | 618.3 | 564.2 | 604.0 |
| 7 | 95Ab11469 | 687.9 | 663.4 | 662.1 | 573.7 | 644.1 | 647.9 | 646.5 |
| 8 | 95M4623 | 687.9 | 664.7 | 681.4 | 605.5 | 644.1 | 647.9 | 655.3 |
| 9 | 97Ab7973 | 668.6 | 657.6 | 651.8 | 585.3 | 618.3 | 628.6 | 635.0 |
| 10 | 98Ab11993 | 672.4 | 638.3 | 622.2 | 567.0 | 644.1 | 614.5 | 626.4 |
| 11 | UT95B1216-4087 | 663.4 | 666.0 | 638.9 | 551.6 | 631.2 | 600.3 | 625.2 |
| 12 | UT5828 | 635.1 | 624.1 | 624.8 | 561.6 | 605.4 | 577.1 | 604.7 |
| 13 | UT4938 | 651.8 | 646.7 | 647.9 | 573.9 | 618.3 | 590.0 | 621.4 |
| 14 | UT4988 | 650.5 | 639.6 | 651.8 | 552.5 | 605.4 | 588.7 | 614.8 |
| 15 | UT4990 | 645.4 | 657.6 | 654.4 | 564.9 | 618.3 | 584.8 | 620.9 |
| 16 | Legacy | 667.3 | 646.7 | 650.5 | 590.8 | 605.4 | 593.8 | 625.8 |
| 17 | 6B95-2482 | 671.1 | 647.9 | 662.1 | 593.2 | 631.2 | 611.9 | 636.2 |
| 18 | 6B95-2089 | 666.0 | 653.1 | 667.3 | 639.4 | 631.2 | 609.3 | 644.4 |
| 19 | 2B96-5057 | 673.7 | 651.8 | 666.0 | 598.1 | 618.3 | 638.9 | 641.1 |
| 20 | 2B97-4077 | 664.7 | 655.0 | 681.4 | 594.1 | 644.1 | 637.6 | 646.2 |
| 21 | 2B97-4299 | 671.1 | 675.0 | 646.7 | 579.4 | 631.2 | 615.7 | 636.5 |
| 22 | CDC Bold | 655.7 | 678.9 | 626.0 | 563.9 | 631.2 | 597.7 | 625.6 |
| 23 | CDC Helgason | 703.3 | 669.2 | 680.1 | 603.4 | 631.2 | 641.5 | 654.8 |
| 24 | MT960099 | 673.7 | 643.4 | 654.4 | 785.3 | 644.1 | 635.1 | 672.7 |
| 25 | MT960228 | 686.6 | 651.2 | 662.1 | 607.2 | 644.1 | 632.5 | 647.3 |
| 26 | MT970116 | 696.9 | 617.7 | 694.3 | 631.4 | 657.0 | 657.0 | 659.0 |
| 27 | 95SR7A | 677.6 | 654.4 | 666.0 | 579.1 | 631.2 | 606.7 | 635.8 |
| | Average | 667.6 | 652.0 | 653.5 | 594.7 | 630.2 | 613.5 | 635.3 |

Table 16. 2001 Western Regional Dryland Spring Barley, Height (cm)

| | Genessee | Bozeman | Blue Creek | Fargo | Williston | | |
|----------------|----------------|-----------|------------|-----------|-----------|----------------|-----------|
| | ID | MT | UT | ND | ND | Average | |
| 1 | Munsing | 71 | 71 | 51 | 64 | 60 | 63 |
| 2 | Steptoe | 74 | 80 | 56 | 77 | 74 | 72 |
| 3 | Clark | 84 | 78 | 61 | 65 | 66 | 71 |
| 4 | Hector | 86 | 80 | 64 | 72 | 77 | 76 |
| 5 | 91Ab3148 | 84 | 74 | 56 | 67 | 78 | 72 |
| 6 | 93Ab688 | 84 | 80 | 64 | 66 | 72 | 73 |
| 7 | 95Ab11469 | 81 | 79 | 66 | 69 | 75 | 74 |
| 8 | 95M4623 | 86 | 78 | 61 | 67 | 69 | 72 |
| 9 | 97Ab7973 | 86 | 69 | 56 | 63 | 67 | 68 |
| 10 | 98Ab11993 | 84 | 68 | 58 | 61 | 62 | 67 |
| 11 | UT95B1216-4087 | 91 | 80 | 58 | 69 | 63 | 72 |
| 12 | UT5828 | 86 | 88 | 66 | 71 | 71 | 76 |
| 13 | UT4938 | 91 | 80 | 66 | 73 | 73 | 77 |
| 14 | UT4988 | 91 | 83 | 64 | 72 | 70 | 76 |
| 15 | UT4990 | 91 | 80 | 66 | 70 | 73 | 76 |
| 16 | Legacy | 94 | 92 | 64 | 71 | 80 | 80 |
| 17 | 6B95-2482 | 91 | 92 | 64 | 71 | 75 | 79 |
| 18 | 6B95-2089 | 94 | 86 | 61 | 69 | 75 | 77 |
| 19 | 2B96-5057 | 79 | 75 | 58 | 61 | 60 | 67 |
| 20 | 2B97-4077 | 86 | 79 | 61 | 77 | 75 | 76 |
| 21 | 2B97-4299 | 81 | 76 | 58 | 63 | 65 | 69 |
| 22 | CDC Bold | 89 | 85 | 51 | 63 | 78 | 73 |
| 23 | CDC Helgason | 86 | 75 | 53 | 61 | 74 | 70 |
| 24 | MT960099 | 69 | 71 | 53 | 63 | 59 | 63 |
| 25 | MT960228 | 79 | 71 | 61 | 70 | 69 | 70 |
| 26 | MT970116 | 86 | 82 | 69 | 77 | 79 | 79 |
| 27 | 95SR7A | 76 | 79 | 58 | 61 | 66 | 68 |
| Average | 85 | 79 | 60 | 68 | 71 | 72 | |

Table 17. 2001 Western Regional Dryland Spring Barley, Heading Date (Julian)

| | Genessee | Tetonia | Bozeman | Fargo | Williston | |
|-------------------|------------|------------|------------|------------|------------|----------------|
| | ID | ID | MT | ND | ND | Average |
| 1 Munsing | 181 | 186 | 173 | 180 | 180 | 180 |
| 2 Steptoe | 182 | 185 | 172 | 179 | 175 | 179 |
| 3 Clark | 188 | 191 | 176 | 183 | 183 | 184 |
| 4 Hector | 188 | 191 | 176 | 183 | 181 | 184 |
| 5 91Ab3148 | 186 | 191 | 175 | 182 | 180 | 183 |
| 6 93Ab688 | 184 | 183 | 173 | 180 | 178 | 179 |
| 7 95Ab11469 | 186 | 189 | 175 | 182 | 179 | 182 |
| 8 95M4623 | 187 | 191 | 176 | 184 | 180 | 184 |
| 9 97Ab7973 | 186 | 189 | 177 | 184 | 181 | 183 |
| 10 98Ab11993 | 186 | 191 | 177 | 185 | 181 | 184 |
| 11 UT95B1216-4087 | 184 | 186 | 176 | 182 | 179 | 181 |
| 12 UT5828 | 183 | 185 | 174 | 180 | 178 | 180 |
| 13 UT4938 | 183 | 185 | 172 | 180 | 177 | 179 |
| 14 UT4988 | 183 | 185 | 172 | 180 | 179 | 180 |
| 15 UT4990 | 183 | 184 | 172 | 180 | 177 | 179 |
| 16 Legacy | 185 | 186 | 174 | 180 | 179 | 181 |
| 17 6B95-2482 | 183 | 186 | 175 | 180 | 177 | 180 |
| 18 6B95-2089 | 183 | 185 | 173 | 180 | 177 | 180 |
| 19 2B96-5057 | 187 | 191 | 177 | 186 | 182 | 185 |
| 20 2B97-4077 | 188 | 190 | 178 | 183 | 183 | 184 |
| 21 2B97-4299 | 187 | 190 | 177 | 184 | 182 | 184 |
| 22 CDC Bold | 186 | 189 | 177 | 185 | 180 | 183 |
| 23 CDC Helgason | 187 | 190 | 177 | 184 | 182 | 184 |
| 24 MT960099 | 188 | 192 | 178 | 184 | 182 | 185 |
| 25 MT960228 | 186 | 188 | 177 | 184 | 181 | 183 |
| 26 MT970116 | 185 | 188 | 176 | 181 | 180 | 182 |
| 27 95SR7A | 187 | 191 | 177 | 185 | 182 | 184 |
| Average | 185 | 188 | 175 | 182 | 180 | 182 |

Table 18. 2001 Western Regional Dryland Spring Barley, Percent Plump Barley

| | Genessee | Tetonia | Bozeman | Fargo | Williston | | |
|----------------|----------------|-----------|-----------|-----------|-----------|----------------|-----------|
| | ID | ID | MT | ND | ND | Average | |
| 1 | Munsing | 65 | 95 | 41 | 81 | 79 | 72 |
| 2 | Steptoe | 80 | 97 | 67 | 89 | 90 | 84 |
| 3 | Clark | 84 | 79 | 69 | 90 | 91 | 83 |
| 4 | Hector | 81 | 81 | 55 | 83 | 86 | 77 |
| 5 | 91Ab3148 | 93 | 94 | 69 | 94 | 97 | 89 |
| 6 | 93Ab688 | 71 | 87 | 20 | 77 | 55 | 62 |
| 7 | 95Ab11469 | 91 | 97 | 72 | 91 | 97 | 90 |
| 8 | 95M4623 | 92 | 97 | 78 | 93 | 95 | 91 |
| 9 | 97Ab7973 | 88 | 97 | 73 | 93 | 93 | 89 |
| 10 | 98Ab11993 | 89 | 93 | 57 | 96 | 92 | 85 |
| 11 | UT95B1216-4087 | 82 | 85 | 46 | 86 | 80 | 76 |
| 12 | UT5828 | 90 | 92 | 79 | 93 | 92 | 89 |
| 13 | UT4938 | 88 | 86 | 75 | 88 | 89 | 85 |
| 14 | UT4988 | 87 | 92 | 81 | 87 | 88 | 87 |
| 15 | UT4990 | 87 | 91 | 77 | 88 | 89 | 86 |
| 16 | Legacy | 89 | 91 | 72 | 90 | 86 | 85 |
| 17 | 6B95-2482 | 92 | 94 | 82 | 91 | 92 | 90 |
| 18 | 6B95-2089 | 88 | 94 | 73 | 96 | 86 | 87 |
| 19 | 2B96-5057 | 91 | 95 | 82 | 92 | 96 | 91 |
| 20 | 2B97-4077 | 75 | 90 | 73 | 88 | 88 | 83 |
| 21 | 2B97-4299 | 87 | 85 | 75 | 90 | 89 | 85 |
| 22 | CDC Bold | 75 | 77 | 50 | 87 | 82 | 74 |
| 23 | CDC Helgason | 90 | 94 | 58 | 87 | 88 | 83 |
| 24 | MT960099 | 78 | 78 | 28 | 84 | 82 | 70 |
| 25 | MT960228 | 86 | 92 | 56 | 91 | 91 | 83 |
| 26 | MT970116 | 93 | 95 | 82 | 90 | 94 | 91 |
| 27 | 95SR7A | 85 | 88 | 71 | 89 | 81 | 83 |
| Average | 85 | 90 | 65 | 89 | 88 | 83 | |

Table 19. 2001 Western Regional Dryland Spring Barley, Percent Thin Barley

| | Genessee | Tetonia | Bozeman | Fargo | Williston | |
|-------------------|----------|----------|-----------|----------|-----------|----------------|
| | ID | ID | MT | ND | ND | Average |
| 1 Munsing | 12 | 1 | 22 | 4 | 7 | 9 |
| 2 Steptoe | 7 | 2 | 11 | 2 | 3 | 5 |
| 3 Clark | 5 | 9 | 10 | 2 | 3 | 6 |
| 4 Hector | 6 | 7 | 15 | 4 | 5 | 7 |
| 5 91Ab3148 | 2 | 2 | 10 | 2 | 1 | 3 |
| 6 93Ab688 | 8 | 3 | 31 | 3 | 19 | 13 |
| 7 95Ab11469 | 3 | 1 | 8 | 3 | 1 | 3 |
| 8 95M4623 | 3 | 1 | 7 | 2 | 2 | 3 |
| 9 97Ab7973 | 4 | 1 | 9 | 1 | 2 | 3 |
| 10 98Ab11993 | 4 | 2 | 14 | 1 | 3 | 5 |
| 11 UT95B1216-4087 | 6 | 5 | 19 | 2 | 7 | 8 |
| 12 UT5828 | 2 | 2 | 5 | 1 | 2 | 2 |
| 13 UT4938 | 3 | 3 | 6 | 2 | 3 | 3 |
| 14 UT4988 | 4 | 2 | 1 | 2 | 3 | 3 |
| 15 UT4990 | 4 | 3 | 5 | 2 | 3 | 3 |
| 16 Legacy | 3 | 2 | 7 | 1 | 4 | 3 |
| 17 6B95-2482 | 2 | 1 | 3 | 1 | 2 | 2 |
| 18 6B95-2089 | 3 | 1 | 5 | 1 | 3 | 3 |
| 19 2B96-5057 | 3 | 2 | 5 | 1 | 1 | 3 |
| 20 2B97-4077 | 10 | 4 | 7 | 2 | 4 | 5 |
| 21 2B97-4299 | 4 | 6 | 7 | 2 | 3 | 4 |
| 22 CDC Bold | 10 | 8 | 16 | 2 | 6 | 8 |
| 23 CDC Helgason | 4 | 2 | 11 | 2 | 4 | 4 |
| 24 MT960099 | 8 | 8 | 27 | 4 | 6 | 11 |
| 25 MT960228 | 5 | 2 | 15 | 2 | 3 | 5 |
| 26 MT970116 | 2 | 2 | 5 | 2 | 2 | 3 |
| 27 95SR7A | 6 | 6 | 10 | 2 | 8 | 6 |
| Average | 5 | 3 | 11 | 2 | 4 | 5 |

Table 20. 2001 Western Regional Dryland Spring Barley, Lodging

| | | Genessee | Bozeman | Fargo | Williston |
|----------------|----------------------|----------|----------|----------|-----------|
| | | ID | MT | ND | ND |
| as reported | | (1-9) | (0-9) | (1-5) | (%) |
| 1 | Munsing | 8 | 7 | 4.7 | 97 |
| 2 | Steptoe | 2 | 1 | 3.7 | 50 |
| 3 | Clark | 5 | 1 | 3.7 | 18 |
| 4 | Hector | 6 | 1 | 4.0 | 65 |
| 5 | 91Ab3148 | 4 | 2 | 2.0 | 18 |
| 6 | 93Ab688 | 2 | 2 | 4.0 | 18 |
| 7 | 95Ab11469 | 3 | 0 | 3.3 | 5 |
| 8 | 95M4623 | 5 | 0 | 3.3 | 55 |
| 9 | 97Ab7973 | 5 | 0 | 3.7 | 13 |
| 10 | 98Ab11993 | 5 | 1 | 3.7 | 65 |
| 11 | UT95B1216-4087 | 5 | 1 | 3.3 | 50 |
| 12 | UT5828 | 4 | 1 | 3.7 | 23 |
| 13 | UT4938 | 4 | 1 | 3.3 | 33 |
| 14 | UT4988 | 4 | 1 | 4.0 | 40 |
| 15 | UT4990 | 4 | 2 | 3.7 | 28 |
| 16 | Legacy (6B93-2978) | 4 | 2 | 4.0 | 58 |
| 17 | 6B95-2482 | 2 | 1 | 4.0 | 4 |
| 18 | 6B95-2089 | 4 | 1 | 4.0 | 33 |
| 19 | 2B96-5057 | 1 | 0 | 3.7 | 0 |
| 20 | 2B97-4077 | 5 | 0 | 4.0 | 0 |
| 21 | 2B97-4299 | 3 | 0 | 3.3 | 20 |
| 22 | CDC Bold | 5 | 1 | 3.0 | 65 |
| 23 | CDC Helgason (TR346) | 4 | 0 | 3.0 | 43 |
| 24 | MT960099 | 3 | 0 | 2.7 | 40 |
| 25 | MT960228 | 5 | 0 | 3.3 | 45 |
| 26 | MT970116 | 2 | 0 | 4.0 | 13 |
| 27 | 95SR7A | 4 | 0 | 3.0 | 30 |
| Average | | 4 | 1 | 4 | 34 |