

Title: Barley Off Station – 2015

Objective: To evaluate the agronomic performance of barley varieties grown in environments representative of northwestern Montana.

Results:

Yields averaged 127.1 bu/A and ranged from 87.2 bu/A for Haybet to 151.1 bu/A for Champion. Heading dates averaged 172 Julian days (June 21) and ranged from 168 to 177 Julian days. Protein averaged 13.4 % with a range from 11.8% for MT100120 to 15.3% for Haybet. Percent plump averaged 93.9% and ranged from 70.6% for Haybet to 98.2% for Merit. Lodging was not experienced in the entire nursery.

Summary:

The 2015 growing season afforded an average barley yield of 127.1bu/A which is comparable to the average yield in 2014 of 128.3 bu/A.

Table 1. Materials and Methods - Barley Off Station - 2015

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|                |              |               |   |
|----------------|--------------|---------------|---|
| Seeding Date:  | 4/23/2015    | Harvest Date: | 8/6/2015                                  |
| Julian Date:   | 113          | Julian Date:  | 218                                       |
| Seeding Rate:  | 80 lb/A      | Soil Test:    | 144-12-222                                |
| Previous Crop: | Canola       | Soil Type:    | Creston Sil                               |
| Tillage:       | Conventional | Fertilizer:   | 250-40-90                                 |
| Irrigation:    | None         | Herbicide:    | Huskie plus 11 floz/A & Axial 16.4 floz/A |

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Table 2. Barley Off Station, Kalispell, MT- 2015

| Cultivar     | HD<br>Julian | HT<br>in | YLD <sup>1</sup><br>bu/A | PRO <sup>2</sup><br>% | TWT <sup>1</sup><br>lb/bu | PLMP<br>% |
|--------------|--------------|----------|--------------------------|-----------------------|---------------------------|-----------|
| Champion     | 171          | 33.0     | 151.1                    | 13.4                  | 51.8                      | 97.2      |
| MT100120     | 174          | 35.3     | 150.9                    | 11.8                  | 53.7                      | 97.9      |
| Craft        | 169          | 34.7     | 143.2                    | 13.5                  | 51.8                      | 96.5      |
| MT100126     | 173          | 34.3     | 141.8                    | 11.9                  | 53.0                      | 97.2      |
| MT124027     | 174          | 34.0     | 134.7                    | 12.4                  | 50.0                      | 94.9      |
| Merit        | 174          | 33.7     | 131.7                    | 13.6                  | 50.9                      | 98.2      |
| MT124728     | 171          | 33.0     | 131.2                    | 13.4                  | 50.8                      | 96.3      |
| Haxby        | 170          | 32.0     | 127.9                    | 13.1                  | 51.8                      | 93.4      |
| Conrad       | 176          | 31.3     | 127.0                    | 13.9                  | 50.7                      | 96.0      |
| Hockett      | 169          | 32.0     | 126.8                    | 13.3                  | 50.3                      | 95.4      |
| Harrington   | 173          | 33.7     | 122.3                    | 13.8                  | 48.4                      | 91.7      |
| AC Metcalfe  | 173          | 33.7     | 119.9                    | 13.8                  | 48.7                      | 91.4      |
| Stockford    | 172          | 33.0     | 112.7                    | 13.8                  | 48.4                      | 97.4      |
| Moravian 115 | 177          | 29.0     | 112.6                    | 12.8                  | 47.0                      | 95.4      |
| Lavina       | 168          | 32.0     | 112.3                    | 14.1                  | 45.5                      | 82.3      |
| Haybet       | 171          | 34.7     | 87.2                     | 15.3                  | 45.3                      | 70.6      |
| Mean         | 172          | 33.1     | 127.1                    | 13.4                  | 49.9                      | 93.3      |
| CV           | 0.8          | 4.4      | 6.3                      | 2.6                   | 1.4                       | 2.0       |
| LSD          | 2.3          | 2.5      | 13.3                     | 0.6                   | 1.2                       | 3.1       |
| Pr>F         | 0.0001       | 0.002    | 0.0001                   | 0.0001                | 0.0001                    | 0.0001    |

HD: heading, HT: height, YLD: yield, PRO: protein, TWT: test weight, PLMP: percent plump

<sup>1</sup> adjusted to 13% moisture

<sup>2</sup> reported on a dry matter bases