

Table: 2017 Winter wheat variety trial, Moccasin, Montana.

| Variety/Pedigree | Year of Release | Source | Heading Date | | Grain Yield (bu/ac) | | Test Weight | Protein | Gross Return |
|-------------------|-----------------|------------------------------------|---------------------|-------------------|---------------------|--------------------|--------------------|--------------------|--------------|
| | | | cal | jul | 2017 | 2016 | (lb/bu) | (%) | (\$/ac) |
| Bearpaw | 2011 | MAES | 8-Jun | 159 | 56.6 | 38.1 | 58.5 | 14.2 | 293.30 |
| + Brawl CLP | 2017 | Colorado Research Foundation, 2011 | <u>2-Jun</u> | <u>153</u> | 61.4 | - | <u>61.1</u> | 12.9 | 286.60 |
| CDC Falcon | 1999 | WPB/SK | 11-Jun | 162 | 57.7 | 35.8 | 57.7 | 13.7 | 276.70 |
| Decade | 2010 | MAES/NDSU | 8-Jun | 159 | 58.2 | 38.2 | 58.2 | 14.1 | 290.30 |
| Judee | 2011 | MAES | 8-Jun | 159 | 59.7 | 32.6 | 60.4 | 14.3 | 300.00 |
| Keldin | 2011 | Seed Linc./Westbred LLC | 10-Jun | 162 | 71.5 | <u>47.4</u> | 59.7 | 13.5 | 351.20 |
| Loma | 2016 | MAES | 12-Jun | 163 | 55.7 | 41.5 | 57.5 | 14.6 | 295.80 |
| Northern | 2015 | MAES | 14-Jun | 165 | 60.5 | 39.3 | 58.4 | <u>15.0</u> | 333.20 |
| SY Clearstone 2CL | 2012 | Syngenta | 10-Jun | 161 | 68.5 | 44.4 | 58.3 | 13.7 | 340.90 |
| + SY Monument | 2017 | Syngenta, 2015 | 7-Jun | 158 | 61.6 | - | 58.4 | 12.4 | 273.80 |
| SY Wolf | 2010 | AgriPro/Syngenta | 7-Jun | 158 | 63.3 | 40.6 | 60.6 | 13.3 | 307.40 |
| Warhorse | 2013 | MAES | 8-Jun | 160 | 57.8 | 39.3 | 58.2 | 14.3 | 302.50 |
| WB-Quake | 2011 | WestBred LLC | 12-Jun | 163 | 51.5 | 30.1 | 57.7 | 14.6 | 273.20 |
| Yellowstone | 2005 | MAES | 11-Jun | 162 | 63.1 | 42.0 | 57.5 | 14.5 | 333.00 |
| Average | | | 10-Jun | 161 | 60.3 | 39.1 | 58.6 | 13.9 | 313.95 |
| CV% | | | 0.9 | 0.9 | 10 | 9.4 | 1 | 1.9 | 9.7 |
| LSD (0.05) | | | 2.4 | 2.4 | 9.9 | 8.1 | 1 | 0.4 | N.S |
| P-value | | | <0.0001 | <0.0001 | 0.1119 | | <0.0001 | <0.0001 | 0.078 |

+ = New for 2017

*Gross returns calculated based on protein premiums\dockages as of September 2017, United Grains Elevator, Moccasin, MT.

Bolded and underlined values are the highest mean. Bolded values are not different from the highest value based on the Least Significant Difference (LSD) test

Note: Study averages include experimental lines not listed here.

Note: Yellowstone plots, for 2017, were planted with varying amounts of 'Warhorse' seed depending on location.

N.S. = Not Significant