

2006

Oat Variety Test

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Recommended Citation

Skrdla, Ronald and Jannink, Jean-Luc, "Oat Variety Test" (2006). *Iowa State Research Farm Progress Reports*. 1143.
http://lib.dr.iastate.edu/farms_reports/1143

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Oat Variety Test

Abstract

Twenty-eight varieties were included in the 2005 oat test at Crawfordsville. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted on March 17 at a rate of 3 bushels/acre. The oat plots were harvested on July 14.

Keywords

Agronomy

Disciplines

Agricultural Science | Agriculture | Agronomy and Crop Sciences

Oat Variety Test

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Materials and Methods

Twenty-eight varieties were included in the 2005 oat test at Crawfordsville. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted on March 17 at a rate of 3 bushels/acre. The oat plots were harvested on July 14.

Results and Discussion

Average oat grain yield at Crawfordsville in 2005 was 185 bushels/acre, 58 bushels/acre

more than the long-term average yield (Table 1). Based on several years of data, Baker was the highest-yielding variety. Reeves had the highest test weight among hulled (or normal) oat varieties in 2005. Buff, however, is a hull-less variety and thus had a higher test weight.

Additional information on oat and barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 2005," which is available from county extension offices (Pm-1645) and at www.public.iastate.edu/~jjannink/.

Table 1. Performance of oat varieties tested at Crawfordsville.

| Variety | Grain Yield bu/acre | | | | | | | Test weight ⁵ |
|------------------|---------------------|----------------|-------------------------------|----------------------------|----------------------|-----------------|------------------|--------------------------|
| | 2005 | Long-term avg. | Head date (June) ¹ | Lodging score ² | Groat % ³ | CR ⁴ | BYD ⁴ | |
| Baker | 200 | 147 | 8 | 43.3 | 74.3 | 2.0 | 3.8 | 34.1 |
| Blaze | 201 | 139 | 9 | 40.9 | 75.9 | 1.8 | 3.2 | 34.4 |
| Brawn | 192 | 135 | 10 | 32.0 | 74.7 | 5.1 | 3.4 | 32.5 |
| Buff | 146 | 98 | 7 | 30.4 | 91.0 | 2.0 | 3.6 | 44.3 |
| Chaps | 179 | 133 | 8 | 35.7 | 74.3 | 3.5 | 3.3 | 32.7 |
| Cherokee | 114 | 79 | 4 | 42.9 | 71.9 | 5.5 | 6.5 | 33.7 |
| Classic | 188 | 132 | 10 | 32.4 | 70.3 | 2.2 | 2.7 | 34.0 |
| Dane | 177 | 130 | 2 | 36.7 | 73.1 | 2.7 | 4.3 | 31.8 |
| Drumlin | 183 | 140 | 12 | 50.8 | 74.7 | 2.2 | 3.7 | 33.7 |
| Esker | 193 | 145 | 6 | 41.8 | 74.7 | 2.0 | 4.3 | 33.5 |
| Gem | 176 | 128 | 9 | 32.5 | 70.3 | 0.9 | 3.7 | 33.6 |
| IN09201 | 185 | 136 | 5 | 32.1 | 71.1 | 2.4 | 3.5 | 34.6 |
| Jay | 198 | 136 | 8 | 30.2 | 72.3 | 1.2 | 3.4 | 34.4 |
| Jerry | 180 | 127 | 9 | 36.5 | 74.3 | 2.8 | 4.3 | 35.9 |
| Jim | 203 | 136 | 5 | 39.7 | 74.3 | 3.4 | 3.7 | 34.8 |
| Jud | 180 | 136 | 11 | 31.9 | 71.5 | 1.5 | 3.6 | 34.2 |
| Kame | 178 | 133 | 6 | 30.7 | 73.1 | 2.0 | 3.8 | 32.4 |
| Killdeer | 179 | 131 | 11 | 33.8 | 71.9 | 3.3 | 3.9 | 33.2 |
| Moraine | 184 | 130 | 6 | 34.0 | 75.1 | 1.5 | 3.8 | 34.5 |
| Ogle | 193 | 132 | 10 | 38.7 | 74.7 | 4.4 | 3.5 | 31.3 |
| Reeves | 179 | 122 | 6 | 51.5 | 73.9 | 1.6 | 3.4 | 36.9 |
| Richland | 125 | 77 | 8 | 59.0 | 68.7 | 6.0 | 5.9 | 31.6 |
| Robust | 183 | 136 | 11 | 22.8 | 71.9 | 0.1 | 1.4 | 35.1 |
| Sesqui | 188 | 138 | 12 | 38.3 | 71.5 | 1.4 | 3.9 | 34.2 |
| Spurs | 197 | 140 | 6 | 41.2 | 73.9 | 1.9 | 3.7 | 35.3 |
| Wabasha | 183 | 130 | 10 | 29.4 | 73.1 | 1.4 | 3.1 | 33.3 |
| Winona | 189 | 132 | 4 | 38.3 | 73.1 | 2.2 | 4.0 | 34.8 |
| Woodburn | 191 | 139 | 5 | 31.6 | 72.7 | 0.1 | 0.9 | 35.5 |
| Average | 185 | 127 | 8 | 39.0 | 73.6 | 3.0 | 4.0 | 34.5 |
| LSD ³ | 19 | 16 | 2 | 20.3 | 4.9 | 2.5 | 1.5 | 1.2 |

¹Heading date at Ames, 2005.²Lodging from Lewis, 2004.³Groat % is a 2005 average from two sites.⁴CR, crown rust and SR data from 2005, 0=resistant, 9=highly infected; BYD, barley yellow dwarf virus data from 2004.⁵Test weight is a 2005 average from five sites.⁶LSD=Least significant difference. When entries differ by an amount equal to one LSD or more, they are considered to be in different classes with 95% certainty.