

2003

## Oat Variety Test, Triticale Variety Test

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### Recommended Citation

Skrdla, Ronald and Jannink, Jean-Luc, "Oat Variety Test, Triticale Variety Test" (2003). *Iowa State Research Farm Progress Reports*. 1476.

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# Oat Variety Test, Triticale Variety Test

## **Abstract**

Includes:

Oat Variety Test

Triticale Variety Test

## **Keywords**

Agronomy

## **Disciplines**

Agricultural Science | Agriculture | Agronomy and Crop Sciences

## Oat Variety Test

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### Materials and Methods

Thirty-two varieties were included in the 2002 oat test at Calumet, Iowa. Each variety was sown in three different plots in order to average the effects of soil variability. The varieties were planted April 3 at a rate of 3 bushels/acre. All oat plots were harvested July 16.

### Results and Discussion

Average oat grain yield at Calumet in 2002 was 89 bushels/acre, 12 bushels/acre less than the

average yield in 2001 (Table 1). The decrease in yield was due to the dry conditions during most of the growing season. Based on three years of data (2000–2002), Rodeo was the highest yielding variety. Reeves had the highest test weight among hulled (normal) oat varieties in 2002. Paul is a hull-less variety and thus had a higher test weight.

Additional information on oat variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 1999–2002," which is available from county extension offices (Pm-1645).

## Triticale Variety Test

Twenty-four winter triticale lines and 13 spring triticale lines were tested at Calumet in 2002. Only one year of data are available thus no table is presented. Triticale is being evaluated as a possible feed grain crop. Additional information on the triticale tests grown in the state can be

found in the publication, "Iowa Crop Performance Tests—Winter Wheat, 1999–2002 and Winter Triticale, 2002," which is available from county extension offices (AG-6) and at [www.public.iastate.edu/~jjannink/](http://www.public.iastate.edu/~jjannink/).

**Table 1. Performance of oat varieties tested at Calumet from 2000 to 2002.**

| Variety          | Grain Yields |      |              | 3-yr<br>avg | Head<br>date<br>(June) <sup>1</sup> | Lodging<br>score <sup>2</sup> | Straw<br>yield<br>T/A <sup>3</sup> | Test<br>weight<br>lbs/bu <sup>4</sup> |
|------------------|--------------|------|--------------|-------------|-------------------------------------|-------------------------------|------------------------------------|---------------------------------------|
|                  | 2000         | 2001 | 2002<br>bu/A |             |                                     |                               |                                    |                                       |
| Belle            | 64           | 98   | 90           | 84          | 18                                  | 28                            | 2.1                                | 33.7                                  |
| Blaze            | 82           | 109  | 96           | 96          | 12                                  | 54                            | 2.3                                | 32.4                                  |
| Brawn            | 80           | 106  | 98           | 95          | 14                                  | 39                            | 2.2                                | 31.6                                  |
| Chaps            | 77           | 109  | 99           | 95          | 12                                  | 43                            | 2.1                                | 32.0                                  |
| Cherokee         | 47           | 82   | 62           | 64          | 9                                   | 38                            | 1.9                                | 33.2                                  |
| Classic          | 71           | 99   | 100          | 90          | 12                                  | 42                            | 2.4                                | 33.0                                  |
| Dane             | 70           | 99   | 91           | 87          | 8                                   | 18                            | 2.0                                | 31.2                                  |
| Don              | 77           | 95   | 86           | 86          | 9                                   | 58                            | 2.2                                | 34.2                                  |
| Ebeltoft         | 77           | 121  | 79           | 92          | 19                                  | 35                            | 2.0                                | 29.9                                  |
| Gem              | 77           | 100  | 95           | 91          | 13                                  | 28                            | 2.2                                | 33.1                                  |
| IN09201          | 76           | 107  | 98           | 94          | 10                                  | 42                            | 2.1                                | 34.3                                  |
| Jay              | 76           | 112  | 94           | 94          | 12                                  | 35                            | 2.4                                | 34.3                                  |
| Jerry            | 72           | 102  | 93           | 89          | 13                                  | 49                            | 2.6                                | 35.2                                  |
| Jim              | 83           | 102  | 96           | 94          | 10                                  | 48                            | 1.9                                | 34.5                                  |
| Jud              | 78           | 105  | 88           | 90          | 16                                  | 35                            | 2.2                                | 32.5                                  |
| Killdeer         | 78           | 116  | 92           | 95          | 15                                  | 37                            | 2.7                                | 31.7                                  |
| Leonard          | -            | -    | 100          | 98          | 18                                  | -                             | 2.2                                | 30.2                                  |
| Moraine          | 73           | 99   | 93           | 88          | 11                                  | 40                            | 1.9                                | 33.9                                  |
| Ogle             | 83           | 103  | 105          | 97          | 12                                  | 46                            | 2.3                                | 31.3                                  |
| Paul             | 54           | 65   | 41           | 53          | 17                                  | 27                            | 1.9                                | 40.5                                  |
| Reeves           | -            | 93   | 96           | 87          | 11                                  | -                             | 2.1                                | 36.4                                  |
| Richard          | 70           | 103  | 85           | 86          | 13                                  | 28                            | 2.0                                | 31.3                                  |
| Richland         | 45           | 78   | 65           | 63          | 11                                  | 56                            | 1.6                                | 29.8                                  |
| Riser            | 56           | 71   | 77           | 68          | 6                                   | 65                            | 1.7                                | 34.6                                  |
| Rodeo            | 86           | 120  | 99           | 102         | 14                                  | 38                            | 2.4                                | 30.7                                  |
| Sesqui           | 78           | 104  | 97           | 93          | 17                                  | -                             | 2.2                                | 32.9                                  |
| Sheldon          | 70           | 103  | 94           | 89          | 11                                  | 75                            | 2.1                                | 33.0                                  |
| Starter          | 53           | 92   | 72           | 72          | 9                                   | 65                            | 2.1                                | 35.4                                  |
| Troy             | 74           | 106  | 94           | 91          | 16                                  | 79                            | 2.3                                | 31.8                                  |
| Vista            | 75           | 107  | 98           | 93          | 14                                  | 44                            | 2.1                                | 32.8                                  |
| Wabasha          | 71           | 98   | 90           | 86          | 15                                  | -                             | 2.3                                | 32.2                                  |
| Youngs           | 78           | 108  | 71           | 85          | 18                                  | 36                            | 2.2                                | 29.3                                  |
| mean             | 72           | 101  | 89           | 87          | 13                                  | 43                            | 2.1                                | 32.9                                  |
| LSD <sup>5</sup> | 9            | 11   | 11           | 11          | 1                                   | 26                            | 0.3                                | 1.1                                   |

<sup>1</sup>Heading date at Ames, 2002.<sup>2</sup>Lodging – 1999 average from five sites.<sup>3</sup>Straw yield – 2002 average from five sites.<sup>4</sup>Test weight – 2002 average from five sites.<sup>5</sup>LSD = 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.