2010 Collaborative On-Farm Test (COFT) Results

Much of Colorado’s 2010 wheat acreage was planted to winter wheat varieties that have been tested in the COFT program which is in its 12th year of operation. In the fall of 2009, twenty- one eastern Colorado wheat producers planted COFT trials in Baca, Prowers, Kiowa, Cheyenne, Kit Carson, Washington, Yuma, Phillips, Logan, Adams, and Weld counties. Each collaborator planted five varieties in side-by-side strips (approximately 1.25 acres per variety) at the same

time and at the same seeding rate as they seeded their own wheat. Viable harvest results were obtained from 19 of the 21 tests; failed tests were lost to severe hail damage.

The objective of the 2010 COFT was to compare performance and adaptability of popular and newly-released CSU varieties (Snowmass, Ripper, and Bill Brown), and promising commercial varieties from WestBred (Winterhawk) and Watley Seed (TAM 112) under unbiased testing conditions. The COFT trial results are intended to be interpreted based on the average across all tests within a year and not on the basis of a single variety comparison on a single farm in one year. Interpreted as an average of 19 test results, the 2010 COFT results can be a powerful complement to our other trial results for helping farmers make better variety decisions.

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2010 Collaborative On-Farm Tests (COFT) Variety Performance Results

2010 Collaborative On‐Farm Tests (COFT) Variety Performance Results

2010 Varieties1

Bill Brown

TAM 112

Snowmass

Winterhawk Ripper

COFT Average

County/Town Yield Test Wt Protein Yield Test Wt Protein Yield Test Wt Protein Yield Test Wt Protein Yield Test Wt Protein Yield Test Wt Protein bu/ac2 lb/bu % bu/ac2 lb/bu % bu/ac2 lb/bu % bu/ac2 lb/bu % bu/ac2 lb/bu % bu/ac2 lb/bu %

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Adams/Bennett 47.2 61.0 11.2 46.0 60.0 11.8 40.6 60.0 12.7 47.6 62.5 12.1 48.3 60.0 11.4 *45.9 60.7 11.8*

Baca/Two Buttes 49.9 63.0 9.5 49.3 63.5 9.8 52.3 63.0 9.5 43.0 63.0 10.2 49.7 61.5 9.3 *48.8 62.8 9.7*

Baca/Vilas 52.7 63.0 9.0 50.5 63.6 9.8 48.0 64.0 9.9 45.6 63.5 10.1 53.1 61.5 10.0 *50.0 63.1 9.7*

Baca/Walsh 45.5 61.0 ‐ 46.1 61.0 ‐ 44.3 60.0 ‐ 45.5 62.0 ‐ 44.5 58.0 ‐ *45.2 60.4 ‐*

Bent/Lamar 44.1 63.0 13.2 39.0 62.0 14.3 38.5 61.0 13.5 36.0 63.0 14.2 41.6 60.0 15.0 *39.8 61.8 14.0*

Cheyenne/Arapahoe 55.1 58.0 12.5 56.1 58.5 13.0 54.8 60.0 12.6 50.8 60.5 11.5 48.4 57.0 12.7 *53.0 58.8 12.4*

Kiowa/Haswell 51.9 56.3 13.2 52.6 58.8 12.7 45.5 56.5 13.4 46.9 56.7 12.3 48.0 55.6 13.7 *49.0 56.8 13.1*

Kit Carson/Bethune 61.0 60.5 ‐ 51.9 60.3 ‐ 49.6 61.3 ‐ 51.1 58.8 ‐ 45.1 58.2 ‐ *51.7 59.8 ‐*

Logan/Leroy 64.8 62.0 10.3 67.7 61.5 10.6 63.2 61.0 11.3 70.0 60.5 10.9 60.6 57.0 11.9 *65.3 60.4 11.0*

Logan/Peetz 50.1 60.0 9.7 51.5 60.5 9.6 47.7 61.0 9.3 48.8 60.0 9.5 42.8 58.0 10.2 *48.2 59.9 9.7*

Logan/Sterling 61.2 58.5 11.3 59.2 57.0 11.6 61.5 58.5 11.7 58.9 60.0 11.5 50.5 55.0 12.3 *58.3 57.8 11.7*

Phillips/Haxtun 73.6 61.5 10.7 82.8 61.3 9.6 81.8 60.3 11.0 68.9 58.1 10.7 78.9 60.2 10.2 *77.2 60.3 10.5*

Phillips/Haxtun E 54.4 57.5 11.1 54.8 56.5 11.5 62.7 58.2 11.4 58.3 57.4 9.4 50.0 53.6 11.4 *56.0 56.6 11.0*

Prowers/Lamar 70.3 60.0 14.3 66.8 63.0 14.5 72.0 61.0 13.6 49.9 62.0 13.8 65.0 60.0 14.8 *64.8 61.2 14.2*

Washington/Akron 59.6 59.0 11.4 59.0 58.0 11.5 57.6 58.5 11.8 58.3 60.0 11.3 53.9 57.0 11.7 *57.7 58.5 11.5*

Washington/Woodlin 45.1 55.0 11.7 39.0 60.0 10.8 44.5 60.0 10.7 44.0 62.5 10.7 44.6 56.5 11.3 *43.4 58.8 11.0*

Washington/Woodrow 65.5 63.0 11.5 58.2 62.0 11.2 64.0 60.0 11.3 65.2 62.5 11.6 59.1 57.5 10.9 *62.4 61.0 11.3*

Weld/New Raymer 53.7 63.0 10.6 52.0 62.0 11.3 54.5 61.5 11.3 47.9 62.0 11.9 52.9 61.0 10.9 *52.2 61.9 11.2*

Yuma/Yuma 57.5 57.2 11.5 61.3 57.2 11.9 56.8 56.4 11.8 60.5 59.4 11.7 53.0 55.0 12.3 *57.8 57.0 11.8*

Average 56.0 60.1 11.3 54.9 60.4 11.5 54.7 60.1 11.6 52.5 60.8 11.4 52.1 58.0 11.8 *54.0 59.9 11.5*

Significance3 Yield a a a b b

Significance3 Test Wt b b b a c

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Significance3 Protein | c | bc | b | c | a |
| LSD (0.30) for yield = 1.3 bu/ac | LSD (0.30) for test weight = 0.4 lb/bu | LSD (0.30) for protein = 0.2% |  |  |  |

1Varieties are ranked left to right according to average yield in 2010

2Yield corrected to 12% moisture

3Significance: Varieties with different letters are significantly different from one another based on the LSD values (1.3 bu/ac for yield, 0.4 lb/bu for test weight, and 0.2%

for protein)