

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

County/Town	2010 Varieties ¹																	
	Bill Brown			TAM 112			Snowmass			Winterhawk			Ripper			COFT Average		
	Yield bu/ac ²	Test Wt lb/bu	Protein %	Yield bu/ac ²	Test Wt lb/bu	Protein %	Yield bu/ac ²	Test Wt lb/bu	Protein %	Yield bu/ac ²	Test Wt lb/bu	Protein %	Yield bu/ac ²	Test Wt lb/bu	Protein %	Yield bu/ac ²	Test Wt lb/bu	Protein %
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
Weid/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
Significance ³ Yield	a			a			a			b			b					
Significance ³ Test Wt	b			b			b			a			a		c			
Significance ³ Protein	c			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)