

# **Result Demonstration Report**

## 2003-2004 Wheat Variety Test

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Millersview, Texas Concho County Precinct 4

# Summary

Fifteen wheat varieties were planted by Millersview Area Farmers on November 19, 2003 in Concho County (in Millersview, Texas). These varieties were raised using normal dryland wheat production practices. When reviewing the test results, producers should keep in mind that this is only one year's data. Year to year consistency should be a primary consideration in selecting varieties of wheat to be planted.

#### **Problem**

Over 49,000 acres of wheat are planted annually in Concho County. The average dryland wheat yield for the county is 19.39 bushels per acre (1989-2000). Several new varieties of wheat become available each year and when combined with the varieties already available makes planting seed selection increasingly difficult. Producers need local data to help in selecting consistently high yielding adapted varieties.

#### **Objectives**

Variety tests provide producers with the opportunity of comparing new varieties of wheat with varieties of wheat that have been successfully grown under varying weather conditions in Runnels County. Utilization of new varieties, that are equal to or exceed currently available varieties, should increase production and income of county producers.

Michael Palmer, Concho County Extension Agent and
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#### **Materials and Methods**

Cooperating County Producers: Millersview Area Farmers

Location: Millersview, Texas
Planting Date: November 19, 2003

Seeding Rate: 70 lbs/acre
Drill Spacing: 8 inches
Soil Moisture Condition at Planting: Adequate
Fertilizer Applied: None

Herbicide Applied: 1/3 oz Amber

#### **Results and Discussion:**

Early in the growing season there was little soil moisture that allowed for growth. Many producers in the area of the test plot received no rainfall after planting in September, October, November, and December. The presence of greenbugs and the lack of rainfall through most of the critical developmental stage from bloom through grain fill impacted yields on this test plot.

January, February and March had a number of small rainfall events on a 7 to 10 day basis that caused leaf rust problems in a number of varieties. Lockett was impacted severely just after head emergence which impacted seed development resulting in reduced grain yield.

In each variety of wheat a hand harvested sample was collected to determine yield. The grain yields from these samples are reported in the table on the next page.

## Economic Analysis

The difference in yield between Cutter and Lockett was 24.41 bushels. The difference in gross income between the highest and lowest varieties was \$87.89 per acre using a selling price of \$3.60 per bushel. In this test, the higher income of the top yielding variety was significant enough to justify its selection over Lockett.

#### **Conclusions**

Sixteen wheat varieties were planted by the Millersview Area Farmers on November 19, 2003 in Concho County (in Millersview, Texas). These varieties were raised using normal dryland wheat production practices. When reviewing the test results, producers should keep in mind that this is only one year's data. Year to year consistency should be a primary consideration in selecting varieties of wheat to be planted.

Table 1. Agronomic Data from Millersview Wheat Test (Concho Co., 2004)

1. Agronomic Bata from Winersview Wheat Test (Concho Co., 2004)			
	Yield	Yield	Gross
	Per	Per	Return
	Acre	Acre	Per Acre
Variety	(pounds)	(bushels)	(\$3.60/bu.)
Cutter	2454	40.89	\$147.22
2145	2219	36.99	\$133.15
Weathermaster 135 (treated)	2197	36.62	\$131.84
WinMaster	2175	36.25	\$130.52
Sturdy 2K	2161	36.01	\$129.64
Hardeman Grain (HG-9)	2161	36.01	\$129.64
Jagalene	1978	32.96	\$118.65
Coronado	1919	31.98	\$115.14
Thunderbolt	1802	30.03	\$108.11
Weathermaster 135	1772	29.54	\$106.35
TAM 110CL	1743	29.05	\$104.59
Jagger	1739	28.99	\$104.37
TAM 111	1663	27.71	\$99.76
Abilene Ag #1	1604	26.73	\$96.24
2174	1465	24.41	\$87.89
Lockett	989	16.48	\$59.33

# Acknowledgments

Sincere appreciation is expressed to the Millersview Area Farmers for establishing and managing the dryland wheat variety test. Also, a word of thanks to all the seed companies that donated seed for the test plot.