



Result Demonstration Report

2007-2008 Wheat Variety Test

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Precinct 4

Summary

Eleven wheat varieties were planted by Millersview Community farmers on December 28, 2007 in Concho County (at 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 Concho County. Utilization of new varieties, that are equal to or exceed currently available varieties, should increase production and income of county producers.

Materials and Methods

Cooperating County Producers:	Millersview Community farmers			
Location:	Millersview, Texas			
Planting Date:	December 28, 2007			
Seeding Rate:	70 pounds per acre			
Drill Spacing:	8 inches			
Soil Moisture Condition at Planting:	Adequate for germination			
Fertilizer Applied:	None			
Herbicide Applied:	1/3 ounce of Amber applied per acre prior to planting and 4.75 ounces of Osprey applied April 11, 2008			
Rainfall:	September 2007	0.20"	January 2008	0.25"
	October 2007	0.55"	February 2008	0.45"
	November 2007	1.00"	March 2008	5.45"
	December 2007	0.35"	April 2008	4.10"

Results and Discussion:

Early in the growing season soil moisture was very limited and germination did not occur until rain was received in January of 2008. Many producers in the area of the test plot received four inches of rain for the entire growing season. The lack of rainfall through most of the critical developmental stage from bloom through grain fill reduced the grain yields on this test plot. Rain totals from February through May totaled 11.0 inches.

In each variety of wheat a hand harvested sample was collected on June 17, 2008 to determine yield. The grain yields from these samples are reported in Table 1 on the next page.

Economic Analysis

The difference in yield between WinMaster and Dumas was 7.33 bushels. The difference in gross income between the highest and lowest varieties was \$58.64 per acre using a selling price of \$8.00 per bushel. In this test, the higher income of the top yielding variety was significant enough to justify its selection over Dumas.

Conclusions

Eleven wheat varieties were planted by Millersview Community farmers on December 28, 2007 in Concho County (at 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., 2008)

Variety	Yield Per Acre (pounds)	Yield Per Acre (bushels)	Gross Return Per Acre (\$8.00/bu.)
WinMaster	1541	25.68	205.41
TAM 111	1536	25.59	204.75
Coronado	1506	25.10	200.80
TAM 112	1323	22.05	176.44
Longhorn	1318	21.97	175.78
Sturdy 2K	1274	21.23	169.86
2158	1264	21.07	168.54
Fannin	1239	20.66	165.25
Cutter	1205	20.08	160.64
Dumas	1101	18.35	146.81
2174	1101	18.35	146.81

Acknowledgments

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