

YIELD, TISSUE N AND GRADE
Bread Wheat Demonstration

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Spirit Mountain Farms Elevation: 475 feet

(table)

Crop History:

Planted: December 31, 1979

Harvested: May 31, 1980

Previous Crop: Cotton

Seeding Rate: 100 lbs/A

Herbicide: None

Insecticide: None

Irrigation: 36 acre inches/A of Colorado River water were estimated to have been applied in 6 irrigations.

Fertilizer:

Source	Lbs/A	Time of Application	Lbs N/A	Lbs P ₂ O ₅ /A
16-20-0	230	Prior to planting	37	46
UN 32	110	February 6	35	
UN 32	165	March 4	53	
			<u>125</u>	<u>46</u>

Soil Analysis: pH= 8.0 (paste with distilled H₂O);

EC_e x 10³= 1.56 (to convert EC_e x 10³ to soluble salts, multiply EC_e x 10³ x 700);

Soluble salts= 1092 ppm

N= 5.75 ppm (from CO₂ extraction. Nitrate reported as N. To convert N to NO₃, multiply N x 4.4);

P= 17.50 ppm (CO₂ extraction. Phosphate reported as P. To convert P to PO₄, multiply P by 3.1).

Date of Sample: December 31, 1979. (University of Arizona Laboratory)

Plot Size: 12 x 730 feet

Agri-File Field Crops 254.130

Entry	Yield ^{1/} (lbs/A)	Tissue N ^{2/} (ppm)	Grade and Kind ^{3/}	Test ^{3/} Weight (%)	Moist. ^{3/} (%)	Damaged Kernels (%)	Total ^{3/} and Shrunken Broken ^{3/} Kernels (%)	Total ^{3/} Defects (%)	Contrast. Classes (%)	Protein ^{3/} , ^{5/} (%)
NK's P.B. 771	4256	710	U.S. No. 1 Hard Red Winter Wheat	61.1	8.6	0.0	2.1	2.1		8.8
NK's Probred	4142	740	U.S. No. 1 Hard Red Winter Wheat	62.3	8.6	0.0	1.2	1.2	0.1	8.8
Shasta	4008	1190	U.S. Sample Grade Hard Red Winter Wheat, Dockage 0.5%	63.4	8.6	0.0	1.6	1.8		8.9
Yecora Rojo	3938	640	U.S. No. 1 Hard Red Winter Wheat	62.7	8.4	0.0	1.6	1.6		10.0
Cajeme	3536	480	U.S. No. 1 Hard Red Winter Wheat	62.5	8.4	0.0	1.2	1.2	0.1	8.8

1/ Yield data and sample for analysis obtained from yield trial detailed in Agri-File Field Crops 254.121.

2/ Sampled on March 13, 1980 at the boot stage of growth. (University of Arizona Laboratory)

3/ Data from Official Certificate of the State of California, Department of Food and Agriculture.

4/ Contrasting classes reported are most likely due to retention and mixing within the combine used for harvest.

5/ Protein on an as is moisture basis.