

Small Grain Forage Test

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Red Rock Cattle Company, Red Rock Elevation: 1800 feet

Variety	Average Yield ^{1/} (lbs./plot)	Height (inches)	Yield ^{2/} (lbs./acre)
Horseford Barley	12.3	40	8930 a
Triticale 313A	11.2	46	8131 ab
Hy Grazier Triticale	10.9	46	7913 ab
Mesa Oats	8.7	43	6316 b

^{1/}All yields adjusted to a 10% moisture content.

^{2/}Yields followed by the same letter are not significantly different at .05 level by Student-Newman-Keuls' Test. All yields are adjusted to a 10% moisture content.

Crop History: Planted: January 3, 1977 with oats at 95 and triticale and barley at 150 lbs./acre. Fertilizer: 150 lbs. N/acre. Irrigation: 3 irrigations of 6 inches each. Plot size: 3 x 20 feet. Harvested: April 25, 1977.

Agri-File Field Crops 232.12

Irrigated Perennial Pasture Test

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Milford Hall - Springerville Elevation: 6965 feet

This replicated test was established in August 1962. Observations concerning entries in this test are summarized below:

Apache County Blend: Most of the remaining plants are tall fescuegrass and sweet clover. Orchardgrass accounts for less than 10% of the stand. The mixture planted was 10 lbs. tall fescuegrass, 10 lbs. orchardgrass, and 3 lbs. yellow blossom sweet clover/acre. Experience in the county indicates that orchardgrass persists best on lighter, better-drained soils where salinity is not a problem. Also, orchardgrass is not as drought tolerant and is not as competitive as tall fescuegrass.

Lincoln Smooth Bromegrass: About 60% bromegrass cover is remaining. Plants have been most productive during the earlier part of the growing season. The stand is now 25% white sweet clover. Bromegrass in this situation appears to be less productive than tall fescuegrass.

Birdsfoot Trefoil (Narrow-Leaf): Only a few plants were observed, accounting for less than 5% of the stand. Most cover in these plots is now white and yellow-blossom sweet clover with some tall fescuegrass.

Intermediate Wheatgrass: Some of this grass is still in evidence but the majority of the production from this area is from the sweet clover and fescuegrass.

Alta and Goar Tall Fescuegrass: Alta appears to be more productive than goar tall fescuegrass. Alta is the preferred variety for this area. Both varieties appear to be less productive when grown without sweet clover which increases yield, improves quality and adds nitrogen to the soil.

Latar Orchardgrass: Latar orchardgrass now accounts for less than 10% of the stand in plots where it was used in pure-stand plantings. In these plots sweet clover now produces most of the plant growth.

White and Yellow Blossom Sweet Clover: Sweet clover, especially white, is taller than other species in this test. Yellow blossom sweet clover plants are shorter, finer stemmed and more palatable. Sweet clover is included in the Apache County Blend because it increases forage yield and quality, provide nitrogen for the grass and usually does not cause a bloat problem.