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WHEAT FORAGE YIELDS AT OVERTON FOR 2000-2001 AND THREE-YEAR MEANS

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Background. Wheat can be an important winter forage for cattlemen in Texas. Wheat is also often used as a dual purpose forage and grain crop in many areas. Wheat's growth curve is similar to rye and it normally will produce good forage in December and January. Its total season forage production is normally slightly less than ryegrass, rye, or oats. Wheat, with adequate moisture, will also grow-off rapidly after seeding in a prepared seedbed and produce forage early in the fall. Wheat normally has good winter hardiness and will not winter-kill, except under extremely cold conditions. There are significant differences between varieties over years and during the growing season.

Research Findings. A wheat forage variety test is conducted annually at the TAMU Agricultural Research and Extension Center at Overton. Commercial and experimental wheat varieties were evaluated during the past 3 years. Fertilizer application rates and dates for the 2000-2001 study are noted in Table 1. Planting dates were early September normally; however in 2000, due to a dry September, the planting date was 4 October. Seed were drilled into a prepared seedbed at an 1 inch depth at 110 lb/ac. Plot size was 4 x 12 ft with four replications. The plots were harvested with a Hege plot harvester at a cutting height of 2 inches on 20 February, 9 March, 30 March, and 1 May 2001. Above average rainfall in November and cool conditions reduced forage production until February. In the 20 February harvest, low forage yields were produced. Higher yields by commercial varieties were produced by 'Coker 9803' and 'Coker 9663'. In the second harvest, Coker 9663 and 'Pioneer 2566' produced the higher forage yields although they were closely followed by several varieties. In the 30 March harvest (21 days after the 2nd harvest), forage production was beginning to increase. Best commercial varieties were 'Coker 9474', 'Pioneer 2566', 'Mason', and 'Sisson', closely followed by several other lines. The 4th harvest on 1 May produced about one-half of the total season yield. Little differences in yield are apparent between entries. Differences smaller than the LSD of 832 lb may be due to chance. The total season yields are also fairly similar; however, 'Coker 9704', and Coker 9474 produced forage yields over 5000 Ib/ac. For the 3-year means, Pioneer 2566 and Coker 9663 had good yields; however, two experimental lines AR 584 A-3-1 and AR 494 B-2-2 produced higher yields. We did not experience any winter freeze damage in 2000-01.

Application. Data presented from these trials should be useful in selecting wheat varieties

for your ranch. Depending on variety availability, compare forage yields to determine which variety you want to plant. Rye will usually out produce wheat for forage production, however, rye seed is often scarce and expensive. Therefore wheat is an attractive alternative. Note rye forage yields elsewhere in this report. Ryegrass can also be seeded with wheat and total season yield will be increased, as well as extending the production of high quality forage into late May.

Variety	Harvest l Feb 20	Harvest 2 Mar 9	Harvest 3 Mar 30	Harvest 4 May 1	Total DMY	3-Year Mean Yield	
	pounds of dry matter per acre						
AR 584 A-3-1* AR 494 B-2-2* Coker 9704 Coker 9474 Coker 9803	422 566 598 489 794	865 1010 768 824 771	709 821 553 685 458	3390 2782 3210 3019 2955	5386 5179 5128 5017 4979	4778 5207 - -	
Pioneer 2566 Coker 9663 TX98U8166* Ga 91426* Pioneer P25R57	621 728 717 537 601	912 982 778 780 841	669 540 792 548 512	2776 2723 2676 3016 2 896	4978 4973 4962 4881 4848	4084 4381 - - -	
TX98U8134* TX91-167* TX91-57* Mason TX89-55-FW*	652 639 405 477 394	912 674 797 812 549	508 640 556 683 412	2621 2675 2749 2526 3033	4693 4629 4507 4499 4388	- 4482 - -	
Sisson Pioneer 2571 TX98U8184* Roane TAM 400	399 331 355 382 322	826 591 913 679 684	623 489 504 427 470	2434 2796 2363 2398 2325	4282 4208 4134 3886 3800	- - - - -	
Coker 9134 Grand Mean LSD CV	629 527 343 55	62 8 790 322 34	222 563 261 39	1942 2729 832 26	3421 4608 1223 22	3784 - - -	

Table 1.	Wheat f	forage variety	v test at Overton	Texas for 2000-2001	and 3-year mean yields.

Planted October 4, 2000. Fertilization: Preplant 400 lb 10-26-26/ac. Topdressed with 40 lb N/ac on November 22, 2000, 40 lb N/ac on January 29, 2001, 40 lb N/ac on March 5, 2001, and 40 lb N/ac on April 4, 2001. Applied Finesse at 1/3 oz ai/ac on November 16, 2000 for weed control.

*Experimental line, seed presently not available.

^aNot tested over last three years.