

## C. V. DeGeer, E. F. Smith, D. Richardson, and D. L. Good

The 66 heifers used in this study were good-to-choice Herefords purchased near Fort Davis, Texas, assigned to treatments on a randomweight basis.

The helfers were rotated between pastures so any differences due to pastures were minimized. Dicalcium phosphate was fed to standardize phosphorus intake between groups.

The results are reported in Table 39.

The heifers receiving only sorghum grain lost weight during the winter. an average of 0.30 poulld each daily. As the amount of soybean meal increased in the ration, performance improved. Heifers receiving 1 pound of soybean oil meal and I pound of sorghum grain per head daily gained 0.25 pound per head daily and where the soybean meal was increased to 1.7 pounds daily, gain increased slightly to an average of 0.35 pound per head daily.

These heifers will be bred during the summer to study the effect of the protein levels on reproductive performance.

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Treatment	- Socgom grain	Et trials	Sergium grain and Sergium grain and	rain and if ment	- Sorbian all meal! -	III mealt
Lot no	r	ro	01	4	10	9
No. of beifers	Ξ	Ξ	11	11	11	11
Initial wt., lbs.	433	4. 4.	436	t- 01 +#	426	438
Daily gain per head, lbs	98.0	-0.25	0.34	0.15	0.46	0.24
Daily ration, 1bs.:						
Ground sorghum grain	64	֓	-	-	0.3	0.3
Soybean oil meal		**********		-	1.7	1.7
Diealcium phosphate	0.1	0.1	0.075	0.075	0.05	0.05
Vitamin A, I.U			15.000	00		
Bluestem pasture	No.		Free choice	hotes		
Salt			Free choice	hotee		

(51)

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