

TABLE 3.—ANALYSIS FOR THE ADJUSTED EFFECTS OF BREEDING OF DAM, SIREs AND TIME OF CALVING.

Source of Variation	d. f.	Sums of Squares	Mean Squares
Total	672	1,559,338	
“Treatment”	135	989,300	
SSR'	16	509,977	
Years	6	369,534	
Sires (Y,T,D)	5	34,164	6,833
Time (Y,T,D)	1	29,906	29,906**
Breeding of Dam (Y,S,T) ..	4	84,026	21,006**
Residual	119	479,323	4,028
Within	537	570,038	1,061

** Significant at the .01 level of probability.

TABLE 4.—EFFECT OF BREEDING OF DAM ON WEANING WEIGHT OF CALVES ADJUSTED FOR YEARS, SIREs AND TIME OF CALVING.

Dam	Number of Calves	Adjusted Mean (Pounds)	Deviation from Mean (Pounds)
English Breed	221	367.9	-3.8
1/32 - 15/32 Brahman	114	381.7	+10.0
½ Braham	267	394.6	+23.0
17/32 - 31/32 Brahman	58	377.0	+5.3
Florida Native Cow	13	337.1	-35.0

TABLE 5.—EFFECT OF TIME OF CALVING ON WEANING WEIGHT OF CALVES ADJUSTED FOR YEARS, SIREs AND BREEDING OF DAM.

Time	Adjusted Means (Pounds)	Deviation from Mean (Pounds)
Winter	378.7	+7.0
(December, January and February)		
Spring	364.6	-7.0
(March, April and May)		

TABLE 6.—EFFECT OF SIREs ON WEANING WEIGHT OF CALVES ADJUSTED FOR YEARS, TIME OF CALVING AND BREEDING OF DAM.

Sires	Number of Calves	Adjusted Means (Pounds)	Deviation from Mean (Pounds)
Floppy (Brahman)	105	391.2	+19.6
Smoky (Brahman)	276	376.2	+4.6
Polled Shorthorn	73	373.0	+1.4
Emperor (Brahman)	87	366.9	-4.7
David (Brahman)	86	361.0	-10.6
Crossbred (Shorthorn x Brahman)	46	361.5	-10.2