

FACTORS INFLUENCING RATE OF GAIN, AMOUNT OF FEED  
CONSUMED AND CARCASS GRADE

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Experiment II - 1947-1948

Preliminary Report

This is the second trial to study the effect of differences which can be observed in feeder calves classified as good to choice. The two lots in this trial were sorted from the 100 range-bred heifer calves purchased last November for feeding experiments at this station. This was a very uniform shipment of calves with no plain ones in the group.

Experimental Procedure

Sorting for the two lots of calves was made on apparent differences in capacity for feed, chest room, muscling, bone, and general appearance. The individual calves also were graded by using a standard feeder chart.

Both lots are receiving the same kinds of feed, consisting of ground corn, cottonseed meal, silage, and alfalfa hay. Each lot has received the same amount of corn, cottonseed meal, and alfalfa. Silage is fed in the amount that each lot will consume.

## Preliminary Report - November 11, 1947 to April 14, 1948 - 154 days

1-Lot number	1	2
2-Number of heifers in lot	10	10
3-Average daily ration:		
Ground shelled corn	8.37	8.37
Silage	10.28	17.85
Cottonseed meal	1.10	1.10
Alfalfa hay	1.76	1.76
Ground limestone	.10	.10
4-Average initial weight	373	455
5-Average final weight	658	764
6-Average total gain	285	309
7-Average daily gain	1.85	2.00
8-Feed required for 100 pounds gain:		
Ground shelled corn	452	417
Silage	545	890
Cottonseed meal	60	55
Alfalfa hay	96	88
Ground limestone	5	5

## Observations to Date

1. Both lots of calves have consumed the same amounts of corn, cottonseed meal and alfalfa hay. The calves in lot 2 have consumed an average of 345 pounds more silage.
2. The calves in lot 2 have made an average gain of 23 pounds more per head.