RATE OF GAIN ANNUAL CLOVER TRIAL

March 28, 1967

Cooperator: Chamberlain Ranch - Ed Fjelline, Manager.

Soil Type: Placentia Sandy loam.

Purpose: To determine meat gains on improved annual clover range.

Procedure:

One 90 acre field was divided in half in December 1964.

Annual clovers had been flown on in 1953 and the fields grazed every year since. No fertilization was done until 1964. One field was disced, reseeded with 11 lbs. Rose and Sub Clover in December 1964 and 500 lbs. 0-20-0 applied

to field #2.

Grazing Record:

Spring Period - 1965 3/29/65-6/18/65 (81 days)

9/9/65 - 10/17/65 (38 days)

Total wt. in (82 Hd) - - - - - - 60,250

Total wt. out (82 Hd) - - - - - 66,210

Total gain - - - - - - 5,960

Ave. gain/Hd.- - - - - - - 72.7 lbs.

Ave. gain/Hd/day - - - - - - 1.91 lbs.

Total lbs. gain/acre 1965 - - - - 257.4 lbs. Ave. daily gain/Head (spring & fall)

1965 2.29 lbs.

<u>Spring Period - 1966</u> 3/18/66 - 5/16/66 (59 days)

Field #1 (45 acres)

Total wt. in (34 Hd) - - - - - - 15,320

Total wt. out (34 Hd) - - - - - 19,878

Total Gain - - - - - - 4,558 lbs.

Ave. gain/Hd/day - - - - - - 2.27 lbs.

Field #2 (45 acres)

Total wt. in (58 Hd) - - - - - - 26,090

Total wt. out (58 Hd) - - - - 34,820

Total gain - - - - - - 8,730 lbs.

Ave. gain/Hd/day - - - - - - 259 lbs.

Pounds Gained Field #2 over #1 - - - 4,172 lbs.

Pounds Gain/acre due to 1964 0-20-0 92.8 lbs.

Fall Period - 1966

Sixty-eight head entered the field October 27, 1966. Because of continuous rain starting the middle of November, weights were not taken until December 9, 1966. The cattle showed no gain. The feed was gone by November 20 so no fall grazing records were valid.

PLACER COUNTY

IRRIGATED PASTURE TRIAL

SUMMER 1956

COOPERATOR

- T. L. Chamberlain, Owner, and Ed Fjelline, Manager -Chamberlain Ranch

SOIL TYPE

- Placentia sandy loam

PROCEDURE

- Three irrigated pasture fields composed of ladino clover, trefoil, ryegrass, and dallasgrass were used in the trial. The three fields lie adjacent to each other, are level and flood irrigated. The three fields were all hayed the last of May and grazed starting June 22nd. All fields received 300 pounds of single superphosphate during the winter of 1965-66.

GRAZING PLAN - Ninety head of 2 year old heifers and 29 head of 3 year old heifers were used in the test. Cattle were individually identified by ear tattoo at the start of the trial and sorted by a gate cut into three groups. Because the fields varied in size, cattle numbers were adjusted so that each field carried 1.4 Animal Units/acre. The 2 year old heifers weighed approximately 700 lbs. and figured at .7 A.U., the 3 year olds were figured at 1 A.U.

TREATMENTS

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	Field #1	Field #2	Field #3
Acres per field	22.4	23	21.4
Fertilization		对于1000年1000年1000年1000年1000年100日	
Single Super Phosphate 1bs/acre	300	300	300
Ammonium Sulfate lbs/acre	0	600,	600,
		1 1b N/acre/day	1 1b N/acre/day
Pasture Hay Fed 1bs/head	0	0	456
Utilization		建筑工作工作工作	
Animals per field	41	40	38
Stocking Rate head/acre	1.78	1.74	1.77
Average weight/animal June 22	720.5	746.2	627.9
Average weight/animal Oct. 26	800.5	860.8	836.2
Gain/head in 1bs (126 days)	80.0	114.6	208.3
Gain/acre in 1bs (126 days)	146.2	199.5	369.5
Average daily gain (lbs/head)	0.63	0.91	1.65
Effects of Treatments	是是似义	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Increased meat from N lbs/acre	0	53.3	
Cost of N per acre @ 10¢/1b	0	\$12.60	
Profit from N per acre @ 22¢/1b		\$86	2. 45 10 10 10 10 10 10 10 10 10 10 10 10 10
Increased meat from hay lbs/acre	0	0	170
Cost of hay per acre @ 1.25¢/1b	0	0	\$10.18
Profit from hay per acre @ 22¢/lb	0	0	\$27.22
1 A.U.M = 1000#/mo.	5.8 AUM	5.9 AUM	5.46 AUM

UNIVERSITY COOPERATORS - Bill Martin, Soils Specialist; Jim Street, Range Improvement Specialist; Jim Elings, Livestock Specialist; Ed Loomis, Parasitologist; Bob Bushnell, Animal Health Specialist; and Farm Advisors Bob Petersen and Jack Herr

FERTILIZER SOURCE

- 18.52 tons Sulphate of Ammonia (21%N) were donated courtesy John Taylor Fertilizer and Valley Nitrogen for the test.

SEEDBEDS FOR ANNUAL CLOVERS

WALTER FIDDYMENT RANCH

300 acre field

Soil Types: Rocklin and Whitney fine sandy loam.

History: Grained through 1965 - Disced in April 1966.

Seeding: 5 lbs. Dinninup Sub, 4 lbs. Kondinin Rose and

1 lb. Crimson per acre was pelleted and flown

on prior to a rain in November 1966.

Fertilization: 400 lbs/acre 0-20-0 was broadcast prior to seeding

and lightly disced in before seeding. An excellent

seedbed was prepared.

100 acre field

History: Irrigated pasture was plowed out in 1957. The

field was grained in alternate years with the

last harvest in 1965.

Seeding: An excellent seedbed was prepared. Seed was flown

on at the rate of 4 lbs. Rose, 3 lbs. Sub and 1 lb.

Crimson per acre.

Fertilization: 4 tons turkey manure was spread on the south 30

acres prior to planting and disced in. 400 lbs.

0-20-0 was applied and disced in on the remaining

70 acres.

Grazing: The field was grazed from early March to April 25,

1966. 150 weaners grazed the field from August 1 -

November 1, 1966.