

*Ellis Ranch*

*Bob Powell*  
*Trial*

FIELD NUTRIENT TRIAL 4-2

SOIL-VEGETATION SURVEY  
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Sprayed and seed broadcast 15 Nov 1968

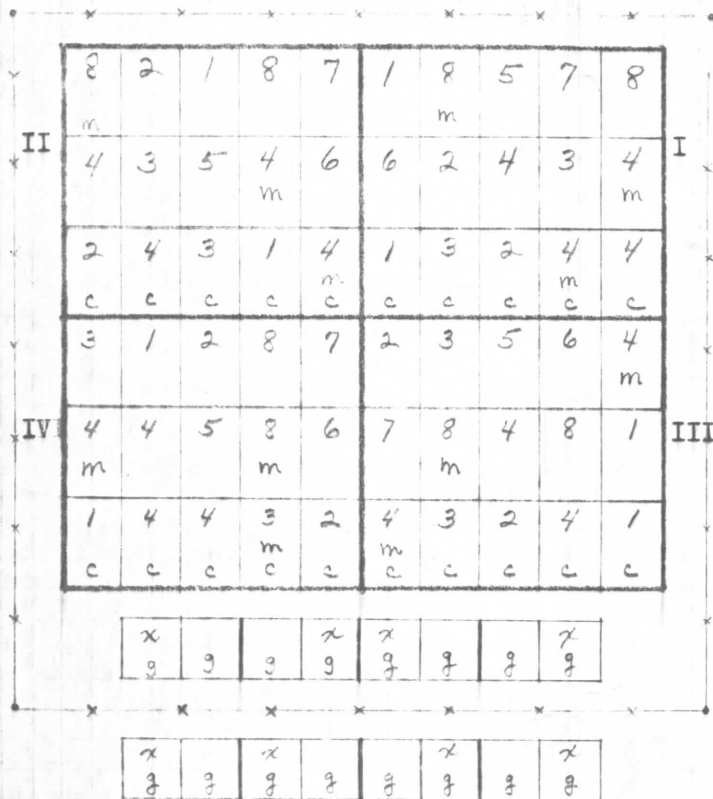
Plot fenced 20 Nov 1968

Fertilizer broadcast 27 Nov 1968

AUBURN soil series

Soil-Veg. plot 7, SW  $\frac{1}{4}$  Bangor  
Quadrangle (50B-3)

Butte County, George Ellis Ranch  
SE  $\frac{1}{4}$  of NE  $\frac{1}{4}$  of Section 7, T.17N., R.5E.  
Slope south 6%, Elevation 300 ft.  
4 mi. SW of Bangor, 500 feet N of  
LaPorte Road.



Fertilizer treatments

1. No fertilizer
2. S
3. P
4. PS
5. N
6. NS
7. NP
8. NPS

S = 100 lb/A of sulfur in 290 lb of gypsum and 50 lb of soil sulfur.

P = 100 lb/A of phosphorus in 435 lb high test sulfur-free treble super-phosphate (=230 lb P<sub>2</sub>O<sub>5</sub>).

N = 150 lb/A of nitrogen in 445 lb of ammonium nitrate.

Seed and spray treatments

- x. Sprayed with paraquat at 1/3 lb/A (= 2/3 quart) in 75 gallons water with 1/2 pint X-77 surfactant.
- c. Sprayed with paraquat and seeded with 50 lb/A of the following legume seed mix:  
Mt. Barker, Woogenelup, Geraldton and Yarloop Sub clovers;  
Wilton rose clover, Cyprus barrel medic.
- g. Seeded with above legume mix plus 5 lb/A each of hardinggrass and Palestine orchard grass.
- m. Micronutrients. These never were applied.

Note: Legumes were pellet-inoculated with appropriate strains of bacteria.

Sierra Soil Series  
Soil-Vegetation Plot 4-1

Fertilizer	Oven dry yield 26 Apr 68		30 Apr 69
None	1290	a	1476
S	1338	a	1800
P	1770	ab	3054
PS	1506	ab	2352
N	2412	bc	1896
NS	2772	cd	2250
NP	3384	d	2568
NPS	3492	d	2460

w/clover	None	—	2676
	S	—	2424
	P	—	3696
	PS	—	3348