

Barker

CO-OPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS
State of California

University of California
and United States Department
of Agriculture, cooperating

University of California
College of Agriculture Extension Service

140 GIANNINI HALL
BERKELEY 4, CALIFORNIA

December 19, 1952

TO: Agricultural Extension Service Specialists' Dust Committee
Farm Advisors

FROM: Lloyd N. Brown

SUBJECT: 1952 Report on Westside Experimental Range Plots

The 1951 plantings sprouted well but made very little growth, due to lack of rainfall.

The 1952 plantings made a very good growth in a year of about normal rainfall. Plantings were made of Indian rice grass, Veldt grass, stipa cernua, smilo, tall wheat grass, pubescent wheat grass, Cucamonga brome, Harlan brome, annual rye grass, wild oats, and soft chess. Rose clover was planted with all the grasses except smilo, with which bur clover was planted. The best growth was obtained with the two perennial wheat grasses and annual rye grass. It has not yet been determined whether or not the wheat grasses survived. Cucamonga brome made a good growth but the heads were ruined by smut. The clovers made a fair to good growth. The rice grass grew very sparsely but may show something the second year.

Duplicate rows of the plantings were made, one of which was fertilized with ammo-phos (16-20-0) applied at the rate of 44 pounds per acre. The fertilized rows made a much better growth than the unfertilized rows.

The growth of the plantings in Kern County were somewhat less than half the size of those in Kings and Fresno Counties. However, the differences in growth and fertilizer response noted above also apply to Kern County. There is no obvious reason for these differences.

In Fresno County, the whole area except the plots, was grazed lightly by sheep; in Kings County, the whole area, including the plots, was grazed lightly by cattle; and in Kern County, excepting for one half the plot area, the whole area was grazed lightly by sheep.

This year a grass, Schismus Arabicus, came to our attention. Apparently it is scattered over much of the Westside area. It averages about four inches in height and has a very strong root system and appears to be quite resistant to wind action. It is a Mediterranean introduction. Stockmen say that they first noticed it about six or seven years ago. They claim that stock eat it readily and that it is good feed.

During the latter part of April, an area of several hundred acres about three miles northwest of Blackwell's Corner on Highway 33 blew out. Shortly afterward the

Kern County

SE corner Sec. 31, T 26 S, R 21 E

Planted 1/5/51

Rows running north and south are numbered from east to west. No available moisture 1/5/51.

Block I	Rows 1, 4, 5, 8, 9, 12, 13, 16 Rows 2, 3, 6, 7, 10, 11, 14, 15 1-9	Smilo 2 lb. Rose clover inoc, 2 lb. Fertilized
Block II	Rows 1, 4, 5, 8, 9, 12, 13, 16 Rows 2, 3, 6, 7, 10, 11, 14, 15 5-12	Annual rye 2 lb. Yellow flowered sweet clover inoc. 2 lb. Fertilized
Block III	Rows 1-4 2-3	<u>Stipa cernua</u> foundation 2 lb. Fertilized
	Rows 5-8 6-7	<u>Stipa Cernua</u> bulk 2 lb. Fertilized
	Rows 9-12 10-11	<u>Stipa Cernua</u> 41-269 2 lb. Fertilized
	Rows 13-16 14-15	Bur clover inoc. 2 lb. Fertilized
Block IV	Rows 1-8 2, 3, 6, 7	Cucamonga brome 2 lb. Fertilized
	Rows 9-16 10, 11, 14, 15	Soft chess 2 lb. Fertilized
Block V	Rows 1-8 2, 3, 6, 7	Rice Grass local 5 lb. Fertilized
	Rows 9-16 10, 11, 14, 15	S.C.S. rice grass 3 lb. Fertilized
Block VI	Rows 1-8 2, 3, 6, 7	Harlan brome 100 2 lb. Fertilized
	Rows 9-16 10, 11, 14, 15	Deerweed (<u>Lotus scoparius</u>) 2 lb. Fertilized
Block VII	Rows 1-4 2, 3	Allscale (<u>Atriplex polycarpa</u>) and lenscale (<u>A. lentiformis</u>) 3 lb. Fertilized

Block VII (Continued)

Rows 5-8 6, 7	Spinescale (<u>Atriplex spinifera</u>) 2 lb. Fertilized
Rows 9-12 10, 11	Wingscale (<u>Atriplex canescens</u>) $\frac{1}{2}$ lb. Fertilized
Rows 13-18 14, 15, 18	Winter fat (<u>Eurotia lanata</u>) 1 lb. Fertilized

This site is quite barren of vegetation with the exception of a small amount of filaree residue from the previous year.