

Red

Progress Report

San Diego County

Name of Project..... Forage Grass Trials.....

PROJECT NUMBER: State 2028 County 90

REPORT PREPARED BY Victor W. Brown

Farm Advisor

DATE..... October 3, 1958.....

Are project and progress reports to continue? Yes..... No.....

I. PROCEDURE USED:

The Step-Point vegetative survey was continued on two large scale experimental ranges: (1) Bressi Range (120 acres); (2) Tule Springs Range (approximately 200 acres.) Both ranges were seeded to mixes of Annual and Perennial Grasses and legumes. The surveys were made approximately the same date for four consecutive years to determine survival of the species.

II. RESULTS:

Copies of the surveys are attached.

Specialists: Lester J. Berry ✓
V. P. Osterli

III. CONCLUSIONS:

Total ground cover has consistently increased since seeding. It is noted that annuals tend to vary more from one year to the next than perennials, depending upon the season. Ryegrass diminishes after the second or third year, except where fertility is increased by fertilization. In these two areas Harding and Smilo appear to have the advantage over other perennials. No clovers have sustained themselves, unless seeded with fertilizer. Rose clover has succeeded to establish itself when hand seeded with phosphorus.

Vegetative surveys will be continued as long as the plots are intact.

SIGNATURE: Victor W. Brown

Farm Advisor

CC Moore
County Director

Make sufficient copies of this report to supply one to each signer of the project or project addition.

PER CENT GROUND COVER TULE SPRINGS EXPERIMENTAL RANGE
BY STEP-POINT ANALYSIS

	Pasture C fertilized 21-18-0 1955 1957				Pasture B No Fertilizer			
	4/24/55	4/29/56	5/31/57	4/21/58	4/24/55	4/29/56	5/31/57	4/12/58
Harding	2.90	4.32	11.74	12.00	1.74	2.47	4.02	4.00
Veldt	1.45	2.52	.77	1.20	1.32	1.42	2.07	1.06
Smilo	.30	.96	.77	1.20	1.20	2.38	4.72	7.85
Orchard					.06			
Brome 25					.48			
Tall Fescue					.12		.12	
Rose Clover	1.05	4.08	3.85	5.40	--	.10		
Alfalfa	.40	.36	.58	.20				
Lotus Spp.	.05	.12						
Soft Chess	.10	.24	1.35	3.00	3.36	3.89	4.02	17.33
Red Brome	.15	1.20	2.50	2.60	.12	.10	.58	4.97
Annual Ryegrass	.35	3.96	8.86	13.40	2.82	8.36	6.78	4.13
Tame Oats	2.05	3.24	5.58	4.00				
Ripgut			1.73	12.40	.06			.13
Annual Fescue			.19	.80				
Filaree			.19					
Misc. Weeds	1.05	2.76	.38	6.60	.60	.28	.69	.53
Wild Oats					.18			
					40.0%	12.0%	19.0%	23.0%
							40.0%	

FILE
SAN DIEGO Co.

TULE SPRINGS EXPERIMENTAL RANGE

SAN DIEGO CO.



Pasture D
Harding
Veldt
Smilo
Alfalfa
Rose Clover

		Seed Mixture Lbs/Acre			
PASTURE A Burned summer of 1950. Seed and rail December 1950. Airplane sprayed spring 1952 and spring 1953	Hardinggrass	1	Smilgrass	1	
	Orchardgrass	1/2	Alfalfa, Calif. common	2	
	Tall fescue	3/4	Rose clover	1	
	Harlan brome	3/8	Annual ryegrass	2	
		Seed Mixture Lbs/Acre			
PASTURE B West End Mechanically cleared winter of 1951-52. Broadcast seeded and disced fall of 1952.	Hardinggrass	2	Soft chess	1	
	Veldtgrass	2	Harlan brome	1/2	
	Smilgrass	2	Rose clover	2	
	Tall fescue	2	Sweetclover	2	
	Orchardgrass	1 1/2	Bur clover	2	
PASTURE B East End Burned summer of 1953. Broadcast seeded and disced fall of 1952.	Hardinggrass	2	Soft chess	1/4	
	Veldtgrass	1	Annual rye	1/4	
	Smilgrass	1	Alfalfa	1	
	Tall fescue	1	Mt. Baker sub.	1/2	
	Brome 100	1	Crimson clover	1/2	
	Orchardgrass	1/3	Bur clover	1/2	
PASTURE C Burned summer of 1953. Cropped to oats 1953-54 Band seeded fall of 1954.	Hardinggrass	1	Alfalfa, Calif. common	1	
	Smilgrass	1	Rose clover	1	
	Veldtgrass	1	Sweetclover	1	
		100 lbs./acre 11-43-0 Fertilizer			