OPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS U. S. DEPARTMENT OF AGRICULTURE AND THE UNIVERSITY OF CALIFORNIA COOPERATING

Reg

Progress Report

San Diego County

Name of Project	Forage	Grass	Trials
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	Water W. D.
REPORT PREPARED BY	Victor W. Brown
	Farm Advisor
DATE	October 3, 1958

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.

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.

Specialists: Lester J. Berry V. P. Osterli

SIGNATURE:

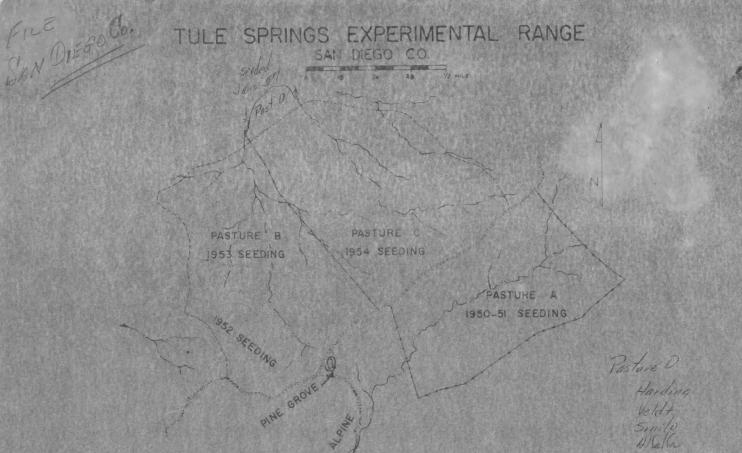
Farm Advisor

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

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PER CENT GROUND COVER TULE SPRINGS EXPERIMENTAL RANGE

	DER CEN	T GROUND C	OVER TULE	T ANALYSIS	3						
	1 111	B	STEP-POIN	1 Philippin		P	asture B				The control of the co
							Fertilize	2°			-
	Pasture C 1955 1957				4/24/	providence de la companya del companya del companya de la companya	4/29/56	1		4/12/58	
	4/24/55	4/29/56	5/31/57	4/21/58	4/24/			1.	.02	4.	00
Harding	2.90	4.32	11.74	12.00	1.	74	2.47				.06
	1.45	2.52	.77	1.20	1.	.32	1.42	-	.07		
Veldt		.96	.77	1.20	1	,20	2.38	4	72	7	.85
Smilo	.30					.06					
Orchard						.48					
Brome 25			1			.12			.12		
Tall Fescue	2.05	4.08	3.85	5.40			.10	0			
Rose Clover	1.05	1	,58	.2	0					7	
Alfalfa	.05				application in column 1991						
Lotus Spp.			1.35	3.0	00	3.36	3.8	39	4.02	2	17.33
Soft Chess	.10		- MO	2.0	60	.12		10	.5	8	4.97
Red Brome	1				40	2.82	2 8.	36	6.7	8	4.13
Ryegrass	.3				00						1
Tame Oats	2.0	5 3.2	1.73		.40	.0	6				.13
Ripgut			.1		.80	- Annah and Annah and	No.	And the second second			
Annual Fesci	ne	- Adjusting									
Filaree			.]	3	6.60		60	.28	The second second	.69	.52
Misc. Weeds	1	.05 2.	76			And the second	,18				
Wild Oats					0.09	-		9.0%	23	3.0%	40.0



PASTURE A	Wardinggrass	1 Smilograss		1					
Burned summer of 1950.	Orchardgrass	1/2	Alfalfa, Calif. common	2					
Seed and rail December 1950.	Tall fescue	3/4	Rose clover	1					
Airplane sprayed spring 1952 and spring 1953	Harlan brome	3/8	Annual ryegrass	2					
	Seed Mixture Lbs, Acre								
PASTURE B West End	Hardinggrass	2	Soft chess	1					
Mechanically cleared winter of	Veldtgrass	2	Harlan brome	1/2					
1951-52. Broadcast seeded and	Smilograss	2	Rose clover	2					
disced fall of 1952.	Tall fescue	2	Sweetclover	2					
	Orchardgrass	1 1/2	Bur clover	2					
PASTURE B East End	Hardinggrass	2	Soft chess	1/4					
Burned summer of 1953.	Veldtgrass	1	Annual rye	1/4					
Broadcast seeded and disced	Smilograss	1	Alfalfa	1					
fall of 1952.	Tall fescue	1	Mt. Barker sub.	1/2					
	Brome 100	1	Crimson clover	1/2					
	Orcharderass	1/3	Bur clover	1/2					
PASTURE C	Hardinggrass	1	Alfalfa, Calif. common	1					
Burned summer of 1953.	Smilograss	1	Rose clover	1					
Cropped to oats 1953-54	Veldtgrass	1	Sweetclover	1					
Band seeded fall of 1954.	100 lbs./acre 11-48-0 Fertilizer								

Seed Mixture Lbs/Acre

Rise Clover