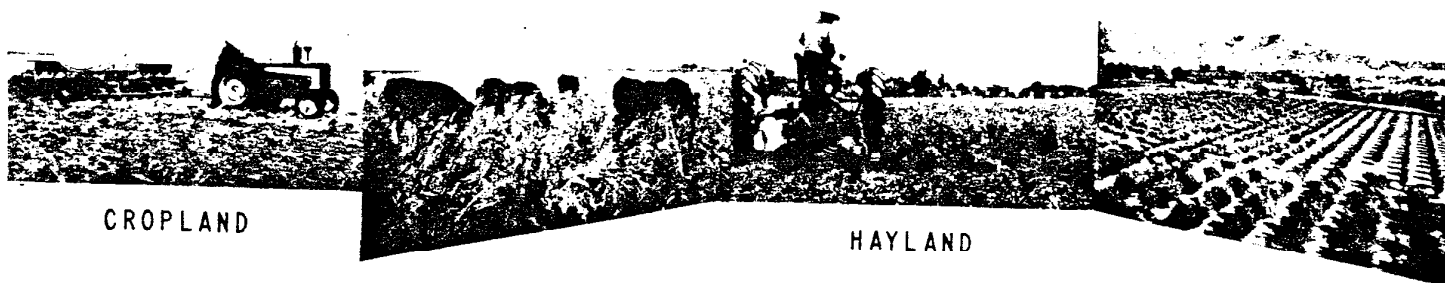


CONSERVATION AGRONOMY TECHNICAL NOTES

PASTURELAND

ORCHARD



CROPLAND

HAYLAND

U. S. DEPARTMENT OF AGRICULTURE

NEW MEXICO

SOIL CONSERVATION SERVICE

AGRONOMY TECH NOTE NO. 35

April 12, 1984

Re: Forage Yields in New Mexico

Attached is Agronomy Tech Note No. 35

There is very little yield information available for any type of forage from New Mexico sources. The attached listing summarizes all of the yield data available in the state for various grasses or grass legume mixtures. Most of the data is from SCS clipping studies either from cooperator ranches or the Los Lunas Plant Materials Center. Information gathered from New Mexico State University sources has been identified and footnoted.

Additional copies of this Technical Note are available upon request from Bill Fuller.

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Resource Technology, SCS, New Mexico

Attachment

AC-1
DC-1
WNTC-Portland, OR-2
Adjoining States-1
Director, ECOL SCI, SCS, Washington, DC-2

FESCUE

Location	Tons/Acre/Year					Fertilized Amount Unknown
	0-0-0	110-0-0	200-0-0	225-0-0	<u>3/</u>	
Alamagordo <u>1/</u> *	-	-	-	-	-	8.64
Carlsbad <u>1/</u>						
5" clip -	3.01	-	-	-	-	-
7" clip -	2.22					
Ft. Sumner <u>1/</u>	-	5.90	6.15	8.47	-	-
Las Cruces <u>4/</u>	-	-	-	-	3.22	-
Silver City <u>1/</u>	3.70	-	-	-	-	-

FESCUE-RYEGRASS HYBRID (KENHY FESCUE)

Las Cruces <u>4/</u>	-	-	-	-	2.82	-
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FESCUE-ORCHARDGRASS 1/

Ft. Sumner	-	-	-	4.70	-	-
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FESCUE-LADINO CLOVER 2/

Las Cruces	Fertilizer	Tons/Ac	% Grass	% Clover
	0-0-0	1.18	51.7	48.3
	50-0-0	2.21	71.0	29.0
	100-0-0	2.65	72.1	27.9
	150-0-0	1.61	85.7	14.3
	0-50-0	4.14	26.3	73.7
	0-100-0	5.02	20.7	79.3
	0-150-0	6.34	17.4	82.6
	50-50-0	4.23	39.2	60.8
	100-100-0	5.68	37.7	62.3
	150-150-0	5.99	35.6	64.4

* Footnotes are found on last page.

FESCUE-LADINO CLOVER 2/

Location	Fertilizer	Tons/Ac.	% Grass	% Clover
Las Cruces	0-0-0	6.15	18.0	82.0
	100-75-0	6.82	26.8	73.2
	150-75-0	6.56	34.3	65.7
	200-75-0	6.66	38.6	61.4
	250-75-0	6.83	40.7	59.3
	300-75-0	6.82	56.7	43.3

FESCUE-ORCHARDGRASS-BROMEGRASS-ALFALFA 1/

Location	Tons/Acre
	105-46-0

Ft. Sumner 9.70

TALL WHEATGRASS

	Tons/Acre					
	0-0-0	150-0-0	S Coated Urea 150-0-0	Alternate Years 90-0-0	300-0-0	S Coated Urea 300-0-0
Carlsbad <u>1/</u>						
5" clip	1.20	-	-	-	-	-
8" clip	1.66	-	-	-	-	-
Las Cruces <u>5/</u>	-	-	-	4.26	-	-
Las Cruces <u>9/</u>	7.75	-	-	-	-	-
Los Lunas <u>1/</u>	4.26	-	-	-	-	-
Los Lunas <u>7/</u>	0.97	1.80	1.44	-	2.25	1.96

INTERMEDIATE WHEATGRASS 1/

Los Lunas 3.41 -

WESTERN WHEATGRASS

	Tons/Acre								
	0-0-0	100-0-0	S Coated Urea 100-0-0	200-0-0	S Coated Urea 200-0-0	300-0-0	S Coated Urea 300-0-0	400-0-0	S Coated Urea 400-0-0
Los Lunas <u>1/</u>	4.00	-	-	-	-	-	-	-	-
Los Lunas <u>8/</u>	1.15	1.22	1.25	1.22	1.34	1.39	1.59	1.41	1.36

SLENDER WHEATGRASS $\frac{1}{2}$

	Tons/Acre	
	0-0-0	
Los Lunas	2.65	

PUBESCENT WHEATGRASS $\frac{1}{2}$

	Tons/Acre	
	0-0-0	
Los Lunas	3.53	

ORCHARDGRASS

	Tons/Acre	
	0-0-0	3/
Los Lunas $\frac{1}{2}$	2.26	-
Las Cruces $\frac{4}{4}$	-	2.01

SWITCHGRASS $\frac{1}{2}$

	Ton/Acre	
	0-0-0	
Los Lunas	3.32	

ALKALI SACATON $\frac{1}{2}$

	Tons/Acre	
	0-0-0	
Los Lunas	2.79	

KLEINGRASS $\frac{1}{2}$

	Tons/Acre	
	80-24-0	
Carlsbad 5" clip	2.32	
8" clip	1.46	

BERMUDAGRASS

		Tons/Acre		
		0-0-0	3/	Fertilized Amount Unknown
Carlsbad ^{1/}	Dryland 2" clip	1.61	-	-
	4" clip	1.14	-	-
Alamogordo ^{1/}		-	-	6.73
Las Cruces ^{4/} ^{6/}		-	4.19	-

REED CANARYGRASS ^{4/}

		Tons/Acre	
		3/	
Las Cruces		1.78	

- 1/ From SCS clipping evaluations on cooperators ranches or the Los Lunas Plant Materials Center.
- 2/ Wilson, M.L., C.W. Chang, and C.E. Watson. Effects of Fertilization on Irrigated Pastures. NMSU-AES-Research Report 439. July 1959.
- 3/ Fertilizer applied was 200-43-83, 250-54-104, and 300-65-124 in 1980, 1981, and 1982 respectively.
- 4/ Lugg, D., and C. Watson. Forage Production and Crude Protein Percentages of Cool-Season Perennial Grasses in Southern New Mexico. NMSU-AES-Research Report 518. November 1983
- 5/ Quinones, F.A. Forage Yield and Other Traits of Six Tall Wheatgrasses. NMSU Ag. Exp. Sta. Research Report 460. December 1981.
- 6/ Lugg, D.G., and C.E. Watson. Forage Production and Crude Protein Percentages of Bermudagrass in Southern New Mexico. NMSU-AES-Research Report 516. October 1983
- 7/ One years data from a fertility study at Los Lunas using Urea and Sulfur coated Urea.
- 8/ Two years average from a fertility study at Los Lunas using Urea and Sulfur coated Urea.
- 9/ Quinones, F.A., Forage Production and Quality of Largo and Jose Tall Wheatgrass. NMSU-AES-Research Report 332. January 1977.