

The influence of Temperature and depth  
planting on percentage emergence of 4 warm season  
grasses under laboratory conditions, College Station

Temperature °F	Side-Oats Gramma	Medio Bluestem	Pretoria 90 Bluestem	Klein (Panicum)	Average
1/2" depth					
70	70	0	0	6	19
80	22	2	9	7	10
93	32	15	12	18	19
105	38	6	12	19	19
Average	40	6	8	12	
3/4" depth					
70	13	0	0	7	5
80	3	4	5	14	6
93	42	10	9	20	20
105	17	2	0	2	5
Average	19	4	3	11	
1/8" depth					
70	48	6	7	20	20
1/4" depth					
70	31	9	6	22	17
100	72	10	33	9	31
Average	52	10	20	16	
1/2" depth					
100	58	6	34	8	26

Table \_\_\_\_\_. The Effect of Nitrogen Placement on Emergence and Yield of two Warm Season Grasses, Lufkin Fine Sandy Soil, College Station, 1957

Treatment 30 # N	Pounds air-dry forage per acre		
	Pretoria 90	Klein	Average
Broadcast	942	1202	1072
2" below seed	850	1285	1067
2" side	431	715	573
Average	741	1067	

placement significantly (.05) different.

Table \_\_\_\_\_. The Influence of Seeding Rate on First-Year Yield of Sorghum Alnum, Brazos River Valley Lab, Miller Clay Soil, 1957

Pounds Seed per acre	Pounds air-dry forage per acre			
	July 3	Aug. 8	Oct. 28	Total
1	2110	1740	1560	5410
3	3040	2260	1720	7020
5	2670	1700	1660	6030
7	3010	1940	1770	6720

LSD (.05) for total yield = 1080, C.V. = 24%

No preplanting fertilizer, planted May 17, 30 pounds N June 12, July 2 and September 4.

The effect of soil and seed treatment on establishment of six warm season grasses, Denton, San Saba clay soil, planted April 11, 1957.

Treatment	Species 1/ 6/						Average
	Buffalo	Side-oats	Caucasian	Dallis	Switch	Blue panic	
None	48	98	181	45	48	49	73
Roll 2/	45	77	178	36	59	27	70
Treat 3/	57	80	150	33	42	41	67
Chill 4/	49	96	211	41	38	41	79
Roll, treat	52	63	146	34	58	30	64
Roll, chill	52	74	195	37	51	38	75
Treat, chill	51	92	126	42	56	30	66
Roll, Treat, Chill	49	52	92	37	62	30	54
Average	50	79	160	38	52	36	
Second planting 5/	-	4	-	-	-	5	

Treatment Summary 6/

	Roll	Treat	Chill	Average
Treated	65.8	62.8	68.5	65.7
Not treated	72.5	75.5	72.6	72.6

1/ Number of plants per 25 feet of 40-inch row.

2/ Seedbed rolled following planting.

3/ Seed treated with  $KNO_3$  before planting.

4/ Seed chilled before planting.

5/ Second test planted June 12, poor emergence and no treatment effects.

6/ Difference required for significance (.05): Species = 12, Treatments = 5.9