NAME OF TEST: Small grain forage evaluation test, College Station, 1961-62
OBJECTIVES: To evaluate new varieties of small grains for early and sustained production in comparison with standard varieties such as Mustang and New Nortex oats.
EXPERIMENTAL PROCEDURE:
Experiment No: 3756
Location: Agronomy Farm, College Station, Texas
Soil Type: Lufkin fine sandy loam.
Cultural practices: Seeded October 16, 1961 in plots consisting of 5 12-inch rows, 17 feet long, 5 replications, harvested 3 x 14 feet. A 48-48-48 fertilizer was broadcast and disked in prior to seeding and one 30-pound nitrogen top dressing was applied during the growing season. Supplementary irrigation was used as necessary to maintain moisture.
RESULTS: See tables.
DISCUSSION: Yields were poor in 1961-62 possibly because of extremely cold periods and excessive cloudiness. Temperatures of 12-15 degrees in January caused considerable damage, especially to Goliad barley and Suregrain oats. A freeze in February further delayed growth. The high yield of Elbon rye at the March 1 clipping indicates good adaptation to winter production.

The stand of Oat 57C 1716 was poor which may account for its relatively poor performance.

PROJECT: State 1240
DATE SUBMITTED: September, 1962
WORKER: E. C. Holt

Small Grain Variety Test
Agronomy Farm, 1961-62

Variety	Pounds of dry forage per acre				Total	
	Dec. 7	Mar. 1	Mar. 27	April 26		
Elbon	420	1090	260	670	2440	a
Gulf rye	230	540	730	700	2200	ab
Gator	380	430	570	800	2180	ab
Alamo-X	530	540	370	730	2170	abc
Moregrain	590	300	360	790	2040	bcd
Cordova	280	540	560	620	2000	bcde
Mustang	350	560	430	630	1970	bcde
Alamo	730	190	270	700	1890	bcde
Milam	310	560	280	710	1860	bcde
New Nortex	300	420	450	670	1840	bcde
Goliad	650	210	280	670	1810	cde
Irr. Alamo 2286-3	540	290	280	700	1810	cde
Suregrain	500	240	300	740	1780	de
Oat 57C 1716	360	200	350	760	1670	e
C.V. (%)					25.0	

Total yield values with a common letter designation do not differ significantly.

Forage Yield of Small Grain Varieties at College Station, 1955-62

Variety	Pounds of air-dry forage per acre							Comparable Average
	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	
Mid-South oats			5870	3000	3640	3510		4120
Elbon rye		6360	5050	3870	3730	3190	2440	4090
Atlas 66 wheat	3780	5590	5130	4090				4040
Moregrain oats				3490	3920	3070	2040	3950
Gator rye			4990	4000	3210	3170	2180	3930
Milam wheat				3330	3280	3620	1860	3840
New Nortex oats	3230	6640	5050	2680	3690	3250	1840	3770
Alamo-X oats						3100	2170	3750
Suregrain oats			4870	3130	3570	2940	1780	3680
Mustang oats	3140	5410	5250	3270	3310	2790	1970	3590
Cordova barley	3150	5650	3930	3500	3260	2440	2000	3420
Alamo oats	3550	6270	4250	2380	2910	2680	1890	3420
Goliad barley	3820	4710	4260	2430	3340	3160	1810	3360
Radar oats						2980		3550
Oat 57C 1716							1670	3330
LSD (.05)	1080	670	1020	580	660	770	320	
C.V. (%)	17.4	19.8	20.5	16.0	17.2	15.5	24.0	
No. of cuttings	5	4	4	4	4	4	4	

NAME OF TEST: Small grain forage evaluation, Beeville, 1961-62.

OBJECTIVES: To determine forage yields of different small grain varieties in terms of both seasonal and total production and to study disease reaction of the various varieties.

EXPERIMENTAL PROCEDURE:

Experiment No: 3768

Location: Substation No. 1, Beeville, Area II

Soil type: Goliad clay loam

Cultural practices: Seed in plots consisting of 4, 12-inch rows, 14 feet long. Harvested 12 feet of the two center rows on January 15, March 3, and May 8. Test was planted on October 6 and was up by November 15.

General weather: Weather was favorable for land preparation of small grains but was dry on top at planting time in early October. All tests and fields in the area were planted but good stands did not emerge until the late October and early November rains. These rains carried the plants in good condition until January.

On January 10-12 the area experienced one of the coldest spells on record. Temperatures went down to 12° and it remained freezing for over 72 hours. This cold spell caused quite a bid of damage to the small grains in the area. All entries in the clipping test were effected with varying degrees except Elbon rye. This entry appeared at home and no yield was lost from the freeze. The true spring type entries such as Dodge, Alamo, Saia, and Cebada Capa were killed or severely damaged. Most of the others made fairly good recovery. Moisture was limited after the freeze and plants made growth mainly on subsoil moisture for the second cutting. After the second very good rains fell in April, some of the entries produced fair yields for the third clipping. In general, the weather was not favorable for the production of small grain forage during the 1961-62 season.

RESULTS: See tables.

DISCUSSION: Suregrain still continues to be the most leaf rust resistant oat in the test and still is the variety recommended for South Texas. Moregrain had been another variety with leaf rust resistance but became heavily infected during the latter part of the season. It is an earlier producer than Suregrain, but the new rust race that has attacked it may become more prevalent and cause it damage; however, it may still produce good grazing for another season or two. Milam wheat is recommended for a dual purpose type of forage and grain. Arrivat and Goliad barleys are still good early forage producers and are recommended. However, these also go out early in the spring. Elbon rye definitely proved that it is a winter hardy variety. It continues to show up very well and yields would have been higher with better stands. Evidently the seed had poor germination. Elbon appears better adapted for the area than Gator. Gulf ryegrass will give good late yields but definitely is not recommended to get early winter grazing.

PROJECT: State 1240

DATE SUBMITTED: October, 1962

WORKER: Lucas Reyes

Small Grain Variety Test

Beeville, 1961-62

Variety	Pounds of air-dry forage per acre Jan. 15	March 26	May 8	Total	
Rogers	940	950	1490	3380	a
Elbon rye	730	1370	1280	3380	a
Irradiated Alamo CI 2286	1040	900	1210	3150	ab
New Nortex	810	950	1370	3130	ab
Suregrain	1060	1110	940	3110	ab
Moregrain	820	990	1080	2890	bc
Victorgrain	900	740	1110	2750	bcd
Milam	540	1390	670	2600	cde
Irradiated Alamo CI 2276	810	700	1050	2560	cde
57C 1716	1010	770	670	2450	def
Mustang	700	850	870	2420	def
Alamo	760	520	1130	2410	def
Gator rye	680	840	740	2260	efg
Goliad x Texan 47-53-1168	1280	860	0	2140	fg
Gulf rye	240	380	1340	1960	gh
Goliad x Cordova 47-53-576	970	960	0	1930	gh
Goliad	1120	570	0	1690	h
Saia oat	1280	0	0	1280	i
Cebada Capa	1170	0	0	1170	i
Dodge oat	950	0	0	950	i

C.V. (%) 19.3

Total yield values with a common letter designation do not differ significantly.

Forage yield of small grain varieties at Beeville, 1954-62

Variety	Pounds of air-dry forage per acre								Comparable Average
	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1954-62
Suregrain oats					5000	1620	3470	3110	3450
Moregrain oats					5720	1760	2550	2890	3380
Gator rye					5810	1230	3150	2260	3260
Elbon rye					5680	1010	2310	3380	3240
Milam wheat				4590	6420	1240	2150	2600	3200
Explorer rye							2630		3100
Irradiated Alamo						1680	2160	3150	2720
Alamo 60%, Mustang 40%	1160	1840	2960	3985	3480 [1/]				2450
New Nortex oats	760	1850	2510	3960	3350	1520	1600	3130	2340
47-53-476 barley						1050	2120		2310
Alamo oats	1180	2170	2910	4040	2140	1310	2130	2410	2290
Victorgrain oats	960	2040	2010	4290			1390	2750	2170
Arrivat barley	730	1940	2420	3210	3090	1470	1880		2140
Cordova barley	710	1340	3000	3480		1150	2090		2100
Mustang oats	850	1700	2750	3680	2390	1020	1260	2420	2010
Goliad barley	1030	1860	2180	3160	3000	800	1690	1690	1930
Rogers								3380	3106
Gulf rye							2390	1960	2270
57C 1716								2450	2176
Goliad x Cordova 47-53-576							2120	1930	2120
LSD (.05)	210	450	760		720		780	449	
C.V. (%)	22.8	12.1	19.2		16.0			19.3	
No. of cuttings	1	2	2		2	2	2	3	

1/ Alamo 40% 245-53-188 60%.

NAME OF TEST: Small grain variety test, Temple, 1961-62.
OBJECTIVE: To evaluate small grain varieties for early and total yielding ability under Central Texas Blackland conditions.
EXPERIMENTAL PROCEDURE:
Location: Substation No. 5, Temple, Texas
Soil type: Houston clay
Cultural practices: Seeded in early October and harvested as indicated.
RESULTS: See table

PROJECT: State 1240
DATE SUBMITTED: February, 1963
WORKER: E. D. Cook

Table 1. Results of small grain variety test on the Blackland Experiment Station, Temple, Texas, 1962.

Variety	Pounds per acre air-dry forage		
	April 12	May 25	Total
Sel. oats 57C-1716	176	923	1099
New Nortex oats	279	1472	1751
Mustang oats	592	1404	1996
Elbon rye	1091	859	1950
Gator rye	994	1654	2648
Irr. Alamo 2286-3	92	815	907
Suregrain oats	269	1448	1717
Alamo oats	92	1110	1202
Goliad barley*	68	715	783
Moregrain oats	192	1344	1536
Cordova barley	1093	1411	2504
Alamo-X	346	1202	1548
Milam wheat	912	998	1910
Gulf ryegrass	97	1185	1282
LSD	176	206	

* Damaged by rabbits.

Table 2. Small grain variety test, Blackland Experiment Station, 1954-62, Temple Texas.

Varieties	Pounds per acre air-dry forage 1954-55	1955-56	1956-57	1957-58	1958-59	1960-61	1961-62	Comparable Average
Mid-South oats				4110	5500	2520		3225
New Nortex oats	2205	1790	3970	4155	5600	2970	1750	3206
Moregrain oats				4345	5645	2675	1540	3199
Suregrain oats					5020	3050	1720	3195
Milam wheat					3980	3755	1910	3147
Cordova barley	2595	1795	3445	4175	4580	2800	2500	3127
Mustang oats	2265	1505	2985	3710	5360	2360	2000	2884
Barley 47-53-576						2675		2861
Gator rye				3060	4780	2080	2650	2791
Elbon rye				3600	4820	2015	1950	2744
Atlas 66 wheat	2385	950	2805	3705	4910			2705
Irr. Alamo 2286-3						2205		2391
Alamo oats	2440	1035	2075	3525	3560	2065	1200	2271
Goliad barley	1965	675	2580	3915	1540	2335	780	1970
Gulf ryegrass						1325	1280	1919
Abruzzi rye	1620	655	3040	2460	1840			1677
Italian rye						1145		1331
Alamo-X oats							1550	2596
Sel. 57C-1716 oats							1100	2146

NAME OF TEST: Small grain variety evaluation for forage at Prairie View, 1961-62

OBJECTIVE: To study the forage yield pattern and total yielding ability of small grain varieties

EXPERIMENTAL PROCEDURE:

Experiment No.: 3791-03

Location: Substation No. 18, Prairie View

Soil type: Hockley fine sand

Cultural practices: Seeded October 18, 1961 in plots consisting of 5 12-inch rows, 17 feet long, harvested 3 center rows, 14 feet long. Area fertilized with 20-40-40 prior to seeding.

General conditions: Moisture inadequate for immediate emergence. Growing conditions throughout most of the season were not favorable because of periods of drouth and extreme cold.

RESULTS: See tables.

DISCUSSION: Yields were below average for the growing season. Early production was not as good as in previous years. Midwinter production of Elbon indicates its ability to grow during cold weather.

PROJECT: State 1240

DATE SUBMITTED: October, 1962

WORKER: O. E. Smith

Forage yield of small grain varieties at Prairie View, 1961-62

Variety	Pounds of dry forage per acre			
	Jan. 16	March 6	April 6	Total
Elbon	870	1720	480	3070 a
Alamo X	1450	800	570	2820 ab
Mustang	820	1010	700	2530 abc
New Nortex	960	770	660	2390 bcd
Irradiated Alamo 2286-3	1130	680	540	2350 bcd
Moregrain	1180	640	470	2290 bcd
Suregrain	980	730	440	2150 cde
Gator	290	1170	540	2000 cde
Alamo	1000	500	440	1940 cde
Goliad	950	690	220	1860 de
Milam	550	1080	170	1800 de
Oat 57C-1716	890	470	430	1790 de
Cordova	140	920	520	1580 e

Total yield values with a common letter designation do not differ significantly.

C. V. (%) 37.7

9 Forage yield of small grain varieties at Prairie View, 1954-62

Variety	Pounds of dry forage per acre							Comparable Average
	1954-55	1955-56	1956-57 [1]	1958-59	1959-60	1960-61	1961-62	1958-62
Atlas 66 wheat		3270	4840	5700				4260
Elbon rye				6140	5250	2560	3070	4260
Mid-South oats				5440	5870	2330		4120
Gator rye				5760	4740	2690	2000	3800
Alamo X						2050	2820	3770
Bronco oats	4780	2930	4900	5200				3760
Moregrain oats				4870	5400	2430	2290	3750
New Nortex oats	4870	2580	3430	4710	4830	2700	2390	3660
Mustang oats	4230	3310	4200	4580	4970	1870	2530	3490
Suregrain oats				4830	4140	2460	2150	3400
Milam wheat				4730	4250	1670	1800	3110
Oat 57C-1716							1790	3080
Alamo oats	3640	3590	3650	3960	4270	1810	1940	3000
Cordova barley		2750	3440	4740	4470	690	1580	2870
Goliad barley	3600	2470	3520	4140		780	1860	2670
Abruzzi rye	4420	2100	5290	3030				1590
LSD (.05)	440	690	[1]	920	780		600	
C. V. (%)	8.5	23.2		15.5	26.4		37.7	
No. of clippings	4	2		4	4	3	3	

[1] First clipping was delayed until March 14 and only the late varieties Bronco, New Nortex, Abruzzi and Cordova recovered. The data were not analyzed statistically.

NAME OF TEST: Small grain forage test at McGregor, 1962.
OBJECTIVES: To evaluate new varieties of small grains for winter and total forage production.
EXPERIMENTAL PROCEDURE:
Location: Substation No. 23, McGregor, Texas
Soil type: Houston clay
RESULTS: See tables.

PROJECT: State 1240
DATE SUBMITTED: June, 1963
WORKER: M. J. Norris

Small Grain Forage Test at McGregor, 1962

Variety	Hay yield, lbs. per acre First clip 3/9	Total
New Nortex Oats	278	4758
Mustang Oats	315	4626
Bronco Oats	478	5194
Suregrain Oats	194	5024
Moregrain Oats	644	5665
Alamo Oats 5371	72	3268
Alamo-X Oats	490	4060
Alamo Oats 2286-3	128	3416
Quanah Wheat	1200	6299
Crockett Wheat	1099	6314
Rogers Barley	1083	7033
Cordova Barley	1091	6612
Elbon Rye	1459	4799
Cebada Capa Barley[1/]		

1/ Winter killed at 12° - 14°.

Period of years summary small grain forage test at McGregor, 1958-62.

Variety or cross	Yield air-dry forage, lbs. per acre 1958		1959		1960		1961		1962		Comparable Average	
	1st clip	Total	1st clip	Total	1st clip	Total	1st clip	Total	1st clip	Total	1st clip	Total
New Nortex oats	1530	6210	850	5390	160	5570	110	6450	278	4758	586	5676
Mustang oats	1920	6890	1170	5650	70	4730	90	5830	315	4626	713	5545
Alamo oats	2350	5760	220	2510	170	3950	260	5170	72	3268	614	4132
Mid-South oats	1450	5680	1110	5490	170	5240	140	5530			620	5321
Suregrain oats	2110	6290	830	5040	70	5030	170	5760	194	5024	675	5429
Moregrain oats			910	5180	190	5530	140	5190	644	5665	803	5615
Bronco oats	1320	6290					20	5430	478	5194	518	5367
Quanah wheat	1330	6430	1320	6870	*	4060	240	6700	1200	6299	811	6072
Crockett wheat			540	5700			60	4910	1099	6314	727	5723
Cordova barley	2220	7570	1750	6490	120	5550	310	7420	1091	6612	1098	6728
Elbon rye	3600	5690	4430	6980	100	4300	780	5840	1459	4799	2074	5522
Gator rye	3280	5390	3920	6800	320	4590	790	5550			1980	5418
Abruzzi rye	*	3100	790	4460							208	3413
Exp. wheat			1130	4830	*	4550					548	5096
Atlas 66 wheat	1870	6210	1930	6870							945	6173
Goliad barley	2850	6950	280	3500							610	4858
Exp. oats 119-50-8	1970	5580									642	4683
Exp. oats 119-50-12	2090	5590									762	4693
Exp. oats 119-50-17	1630	5660									302	4763
Rogers barley									1083	7033	1475	7690
Alamo-X							330	5614	490	4060	943	4879
Alamo oats 2286-3									128	3416	520	4073

No. of cuttings in 1961 = 2

1st clipping date: about February 15 each year

*Not sufficient growth to clip on 2/19/60

NAME OF TEST: The evaluation of small grain varieties for forage at Mount Pleasant, Texas, 1961-62.

OBJECTIVE: To determine the total yield, season of production and winter survival of small grains clipped for forage.

EXPERIMENTAL PROCEDURE:

Experiment No.: 3744-03

Location: D. C. Hinson farm, Mount Pleasant, Texas.

Soil type: Sawyer fine sandy loam

Cultural practices: Planted October 4, 1961 in plots consisting of six 12 inch rows, 15 feet long, 4 replications, randomized, harvested two center rows, 10 feet long. Fertilized 30-60-60 on October 3, 1961, 30-0-0 on February 13, 1962 and 30-0-0 on March 7, 1962.

Weather conditions: Weather conditions over the growing season were about normal. The lowest temperature was 5 degrees below with daily high of 15 degrees. This occurred with 7 inches of snow covering a 3 day period (January 10, 11, 12). Total rainfall for the growing season was 30.60.

Source of materials: Dr. E. C. Holt

RESULTS: See Tables

PROJECT: State 1240

DATE SUBMITTED: July, 1962

WORKER: J. A. Lancaster

Small Grain Variety Test
Mount Pleasant, 1961-62

Variety	Pounds of air-dry forage per acre. Nov. 11	Feb. 12	March 6	April 12	Total	
Elbon rye	650	1540	610	1630	4430	a
Suregrain	350	770	710	2230	4060	ab
Mustang	260	1150	660	1730	3800	bc
Moregrain	540	740	590	1830	3700	bc
Alamo X	800	1070	420	1150	3440	bcd
Goliad barley	910	710	490	1260	3370	cd
Cordova barley	260	740	750	1520	3270	cd
Irradiated Alamo 2276-3	740	600	320	1390	3050	de
Gator rye	170	650	630	1490	2940	de
New Nortex	200	360	490	1850	2900	de
Milam wheat	310	1350	430	770	2860	de
Alamo	790	470	210	1120	2590	e
57C-1716 oat	420	460	240	1370	2490	e

C.V. (%) 23.9

Total yield values with a common letter designation do not differ significantly.

Forage Yield of Small Grain Varieties at Mt. Pleasant, 1957-62

Variety	1957-58	1958-59	1959-60	1960-61	1961-62	Comparable Average 1957-62
Moregrain oats		4040	5760	6090	3700	4910
Elbon rye	4630	5790	2650	6030	4430	4710
Gator rye	4680	6240	3870	5020	2940	4550
Alamo X				6210	3440	4340
Mid-South oats		3390	3450	5610		4000
Suregrain oats		3320	2720	5780	4060	3980
New Nortex oats	4380	2550	4270	5540	2900	3930
Goliad				5360	3370	3880
Mustang oats	4160	3930	2390	4920	3800	3840
57C-1716 oat					2490	2970
Alamo oats	3330	950	2060	5670	2590	2920
Cordova barley	1870	3650	1250	4360	3270	2880
Milam wheat		2120		4320	2860	2760
LSD	530	810	980	1070		
C.V. (%)	6.6	18.2	38.2	28.4	23.9	
No. of cuttings	6	5	3	4	4	

NAME OF TEST: Ryegrass variety evaluation test at College Station, Texas.
OBJECTIVES: To evaluate experimental materials for early and total forage production and resistance to leaf rust.
EXPERIMENTAL PROCEDURE:
Experiment No: 3755-01
Location: Agronomy Farm, College Station, Texas
Soil Type: Lufkin fine sandy loam
Cultural Practices: Planted October 16, 1961 in plots consisting of five 12-inch rows, 14 feet long, 6 replications, harvested area 3 x 12 feet. The area was topdressed with 60 pounds of nitrogen in two applications during the growing season. Moisture was maintained by irrigation when necessary.
RESULTS: See tables.
PROJECT: State 1240
DATE SUBMITTED: September, 1962
WORKER: E. C. Holt

Ryegrass Variety Test
Agronomy Farm, 1961-62

Variety	Pounds of oven-dry forage per acre Feb. 16	Mar. 22	May 1	Total		Maturity 1/ Ratings Avg.	Rust 2/ Ratings Avg.
State College #4	420	560	860	1840	a	1.0	1.4
Stoneville #1	320	480	910	1710	abc	2.3	1.0
Gulf	370	560	780	1710	abc	1.4	1.2
07-5	340	510	840	1690	abc	1.5	1.0
Stoneville #2	300	530	850	1680	abc	1.8	1.8
State College #3	390	500	790	1680	abc	1.2	1.4
Florida Rust Res.	370	490	740	1600	abcd	1.2	1.4
Stoneville #3	360	480	750	1590	abcd	1.8	1.0
State College #1	250	510	810	1570	bcd	1.0	1.4
Commercial domestic	350	450	750	1550	cd	4.0	4.6
State College #2	300	470	770	1540	cd	1.0	1.0
Westerwolths Million (N-110)	320	490	690	1500	cde	2.9	2.5
Tifton #1	330	450	720	1500	cde	3.0	1.0
07-6	300	460	730	1490	cde	1.4	1.4
01-1	200	480	810	1490	cde	1.2	1.2
State College #5	280	450	670	1400	def	1.0	1.4
Italian Combi (J)	320	480	480	1280	efg	4.6	1.8
Westerwolths Billion (N9-127)	280	430	530	1240	fg	4.0	2.4
Tetrone (N9-7)	220	340	550	1110	gh	4.0	1.4
L. Perenne Combi (PI 270482)	240	370	350	960	h	5.0	2.4
Commercial perennial	170	270	290	730	i	5.0	3.2
L. Perenne Combi (PI 270481)	150	270	280	700	i	5.0	1.2

C.V. (%) 20.4

Total yield values with a common letter designation do not differ significantly.

1/ 1 = full seed head leaves beginning to dry; 3 = partial head emergence; 5 = no head emergence

2/ 1 = no rust

Forage yield of ryegrass varieties at College Station, 1955-62

Variety	Pounds of air-dry forage per acre												Comparable Average 1955-62
	1955-56 (1)		1956-57	1957-58	1958-59 (2)		1959-60 (1)		1960-61	1961-62			
Stoneville #2					3920	(3.2)	3540	(1.5)	4550	1680			4230
Texas Synthetic Early			7410	3830	4600	(2.2)	3780	(1.2)	3940	1690			4210
Stoneville #1					3180	(2.8)	3390	(1.3)	4640	1710			4030
La Estanzuela 284	3700	(2.0)	7150	3650	3810	(4.2)	3350	(1.6)					3890
Gulf	3840	(1.4)	7290	3080	4080	(4.7)	3620	(1.2)	3520	1710			3880
Stoneville #3							3590	(1.1)	3070	1590			3770
Florida Rust Resistant	3260	(1.4)	7230	2890	4210	(2.0)	1220	(4.4)	3350	1600			3390
Common	3400	(4.4)	6720	3210	2350	(10.0)	2860	(3.2)	3120	1550			3320
Perennial	2710	(3.2)	7340	1720	2010	(4.8)	2200	(2.8)	2150	730			2690
State College #4									4290	1840			4170
State College #1									4410	1570			4090
State College #2									4120	1400			3860
State College #3									3590	1680			3740
State College #5									3940	1540			3150
Tetrone (N9-7)									2530	1110			2920
Tifton #1										1500			3420
Westerwolths Million										1500			3420
Texas Synthetic Late										1490			3410
Westerwolths Billion										1240			3160
LSD (.05)	660		N.S.	670	860		365		1320	220			
C.V. (%)				20.9	20.2		32.9		29.0	20.4			
No. of cuttings	3		3	3	3		3		2	3			

(1) Numbers in parenthesis are rust ratings on a 1 to 5 scale with 1 representing no rust.

(2) Numbers in parenthesis are rust ratings on a 1 to 10 scale with 1 representing no rust.

The test was conducted on Miller clay soil except for the 1958-59, 1959-60, and 1961-62 tests which were on Lufkin fine sandy loam.

NAME OF TEST: Ryegrass variety yield test, Prairie View, 1961-62.
OBJECTIVES: To study the yield performance and rust infection of experimental ryegrass varieties in comparison with common ryegrass.
EXPERIMENTAL PROCEDURE:

Experiment No.: 3791-02
Location: Substation No. 18, Prairie View, Texas
Soil type: Hockley fine sand
Cultural practices: Planted October 18, 1961 in plots consisting of five 12-inch rows, 17 feet long, harvested 3 center rows, 14 feet long. Area fertilized with 20-40-40 prior to planting; seeding rate 10 pounds per acre.
General conditions: Moisture inadequate for immediate emergence. Growing conditions throughout most of the season were below average both from periods of inadequate moisture and extreme cold.

RESULTS: See tables
PROJECT: State 1240
DATE SUBMITTED: October, 1962
WORKER: O. E. Smith

Forage yield of ryegrass varieties, Prairie View, 1961-62

Variety	Pounds of dry forage per acre				
	Jan. 16	March 6	April 6	Total	
State College #1	1010	1120	610	2740	a
State College #4	650	1000	630	2280	a
Tifton #1	960	880	390	2230	a
State College #3	750	850	590	2190	b
State College #2	660	890	580	2130	bc
Stoneville #2	860	750	490	2100	bc
State College #5	500	950	550	2000	bc
037-7	640	880	460	1980	cd
Gulf	590	750	550	1890	cd
Italian Combi (J)	670	910	160	1740	cde
Combi (J) PI 270480	720	670	270	1660	cde
Florida Rust Resistant	340	790	460	1590	def
07-5	440	620	500	1560	efg
Stoneville #3	750	430	320	1500	efg
01-1	260	690	510	1460	fg
Stoneville #1	600	570	280	1450	fg
Commercial Domestic	620	460	100	1180	fg
Commercial Perennial	390	370	30	790	fg
L. Perenne Combi PI 270482	230	360	30	620	g
L. Perenne Combi PI 270481	150	370	40	560	

C.V. (%) 29.1
Total yield values with a common letter designation do not differ significantly.

Forage yield of ryegrass varieties, Prairie View, 1958-62

Variety	Pounds of dry forage per acre 1958-59	1959-60	1960-61	1961-62	Comparable Average 1958-62
State College #1			3370	2740	5040
State College #4			3760	2280	5010
State College #3			3760	2190	4960
Florida Rust Resistant	6800		3980	1590	4900
State College #2			3640	2130	4870
State College #5			3690	2000	4830
Gulf	5820	7370	3890	1890	4740
Stoneville #2	6140	6730	3590	2100	4640
Stoneville #3		6850	3380	1500	4460
Commercial Domestic	6300	7060	3020	1180	4390
Stoneville #1	5870	6140	3080	1450	4140
Commercial Perennial	5170	5280	1140	790	3100
Tifton #1				2230	4950
037-7				1980	4700
Italian Combi (J)				1740	4460
Combi (J) PI 270480				1660	4380
07-5				1560	4280
01-1				1460	4180
L. Perenne Combi PI 270482				620	3340
L. Perenne Combi PI 270481				560	3280
LSD (.05)	800	650	925	180	
C.V. (%)	9.5	13.5	32.7	29.1	
No. of cuttings	3	3	3	3	

NAME OF TEST: Ryegrass Variety Test, Mt. Pleasant, Texas, 1961-62.
OBJECTIVE: To determine the total yield and seasonal forage production.
EXPERIMENTAL PROCEDURE:

Experiment No.: 3744
Location: D. C. Hinson farm, Mt. Pleasant, Texas.
Soil Type: Sawyer fine sandy loam
Cultural Practices: Planted October 5, 1961 in plots consisting of four 12 inch rows, 15 feet long, 4 replications, randomized, harvested two center rows 10 feet long. Fertilized 30-60-60 on October 4, 1961, 30-0-0 on March 9, 1962 and 30-0-0 on April 3, 1962.
Weather Conditions: Weather conditions over the growing season were about normal. The lowest temperature was 5 degrees below with a daily high of 15 degrees. This occurred with 7 inches snow covering a 3 day period (January 10, 11, 12). Total rainfall for the growing season was 31.60 inches.
Source of Material: Dr. E. C. Holt

RESULTS: See Tables
PROJECT: State 1240
DATE SUBMITTED: July, 1962
WORKER: J. A. Lancaster

Ryegrass Variety Test
Mt. Pleasant 1961-62

Variety	Pounds of air-dry forage per acre March 9	April 2	May 2	Total	
Ryegrass 01-1	430	1280	3810	5520	a
Ryegrass 07-5	440	1400	3670	5510	a
Florida Rust Resistant	530	1490	3470	5490	a
Ryegrass 07-6	530	1350	3540	5420	abc
Gulf	430	1170	3810	5410	abc
State College 5	500	1230	3510	5240	abc
Stoneville 1	300	1030	3890	5220	abc
State College 4	530	1140	3460	5130	abc
State College 3	460	1070	3520	5050	abc
State College 1	460	1120	3460	5040	abc
Commercial Domestic	330	890	3780	5000	abc
State College 2	390	1130	3440	4960	abc
Stoneville 2	210	1020	3540	4770	abc
Stoneville 3	270	850	3530	4650	bcd
Tifton 1	540	1040	2630	4210	cd
Commercial Perennial	0	430	3550	3980	d

C.V. (%) 16.4
Total yield values with a common letter designation do not differ significantly.

Forage yield of ryegrass varieties at Mt. Pleasant, 1959-62

Variety	Pounds of air-dry forage per acre 1959-60	1960-61	1961-62	Comparable Average 1959-62
College Station #1	2780	5050	5510	4450
Gulf	2980	4720	5410	4370
College Station 01-1			5520	4330
College Station 07-6			5420	4220
State College #3		4690	5050	4120
State College #5		4160	5240	3950
State College #4		4180	5130	3910
Florida Rust Res.		3720	5490	3860
State College #2		4210	4960	3840
Stoneville #2	2480	4060	4770	3770
State College #1		3950	5040	3750
Stoneville #3	1820	4720	4650	3730
Commercial Domestic	2360	3600	5000	3650
Stoneville #1	1870	3740	5220	3610
Tifton #1			4210	3019
Commercial Perennial	1470	2410	3980	2620
LSD (.05)	690	700		
C.V. (%)	31.2	21.0	16.4	
No. of Clippings	2	3	3	

NAME OF TEST: Rescuegrass Variety Test, Mt. Pleasant, Texas
OBJECTIVE: To determine the seasonal and total forage production of several varieties.
EXPERIMENTAL PROCEDURE:
Experiment No.: 3744
Location: D. C. Hinson farm, Mt. Pleasant, Texas
Soil type: Bowie loamy fine sand
Cultural practices: Planted October 5, 1961, in plots consisting of four 12-inch rows, 15 feet long, 4 replications, randomized, harvested two center rows 10 feet long. Fertilized 30-60-60 on October 4, 1961, 30-0-0 on April 3, 1962.
Weather conditions: Weather conditions over the growing season were about normal. The lowest temperature was 5 degrees below with daily high of 15 degrees. This occurred with 7 inches of snow covering a 3 day period (January 10, 11, 12). Total rainfall for the growing season was 31.60 inches.
Source of materials: E. C. Holt
RESULTS: See tables.

PROJECT: State 1240
DATE SUBMITTED: July, 1962
WORKER: J. A. Lancaster

Rescuegrass Variety Test
Mount Pleasant, 1961-62

Variety	Pounds of air-dry forage per acre		
	April 2	April 26	Total
Georgia Selection	260	1330	1590
Chapel Hill	160	1350	1510
Lamont	320	1180	1500
Nakuru	170	1060	1230
C.V. (%)			21.8

Forage Yield of Rescue Varieties at Mt. Pleasant, 1959-62

Variety	Pounds of air-dry forage per acre 1959-60	1960-61	1961-62	Comparable Average 1959-62
Georgia Selection	3500	4440	1590	3180
Lamont	2760	4220	1500	2830
Prairie Brome	2700			2630
Chapel Hill	2780	3380	1510	2560
Nakuru	2550	3080	1230	2290
Texas 46	2050			1980
LSD (.05) for total yield	560	890	N.S.	
C.V. (%)	25.2	28.4	21.8	
No. of clippings	3	3	2	

NAME OF TEST: Sudan variety and hybrid evaluation, Brazos River Valley Lab., 1962.

OBJECTIVE: To evaluate varieties and hybrids for forage yield and regrowth ability.

EXPERIMENTAL PROCEDURE:

Experiment No.: 3840

Location: Brazos River Valley Lab near College Station, Texas

Soil type: Miller clay

Cultural practices: Planted May 11, 1962 in plots consisting of 3 40-inch rows, 20 feet long, 5 replications, center row harvested for yield. A 48-48-48 fertilizer applied in band under row when land was prepared for planting. The area was irrigated as necessary for good growth.

RESULTS: See tables.

DISCUSSION: Yields were above average in 1962 with the hybrids producing more in general than varieties. A comparison of varieties which have been in the test only one year should be on the basis of performance in that year and not on the basis of comparable averages shown in the second table. Comparable averages based on one year are not very reliable.

PROJECT NO.: State 1240

DATE SUBMITTED: January, 1963

Forage yield of Sudan varieties and hybrids, Brazos River Valley Lab, 1962

Variety or Hybrid	Pounds of dry forage per acre July 5	Aug. 9	Sept. 25	Total	
Sudax 11	4720	2380	4270	11370	a
A4692 (Highland X Atlas) X Sweet	5710	2300	3280	11290	a
A4692 (Highland X Atlas) X Piper	4840	3050	3280	11170	a
PAG 34	5320	2160	3010	10490	ab
Hay Grazer	4790	2380	3160	10330	abc
Grazer-W	5020	2430	2730	10180	abcd
TrudanI(X3033)	4730	2460	2860	10050	abcd
PAG 35	5220	1860	2950	10030	abcd
Sweet Sioux	4860	2240	2700	9800	abcd
Rhodesian X Stoneville Synthetic	4340	1920	3100	9360	abcd
Sorghum almum	4340	1530	3180	9050	abcd
Stoneville Synthetic	3720	1770	3000	8490	bcde
Common	4540	2000	1630	8170	bcde
Perennial Sweet	3640	1580	2920	8140	bcde
Suhi-1	3810	1610	2410	7830	cde
Piper	3240	2190	2220	7650	def
Greenleaf	2650	1450	1940	6040	efg
Sweet 372	1850	1850	1640	5340	g

C.V.(%) = 32.2

Forage yield of Sudangrass varieties, Brazos River Valley Lab., 1955-62

Variety	Pounds of dry forage per acre								Comp. Avg.
	1955	1956	1957	1958	1959	1960	1961	1962	1956-62
Sudax 11					10280		6960	11370	9050
Sorghum almum		5180	5520	10760	11140	8500	6800	9050	8140
Common	4120	4770	7230	9860				8170	7790
Piper	5400	4760	7850	8970	8440	7470	6720	7650	7410
Stoneville Syn. #1			6280	10720	7980	8120	5900	8490	7470
Perennial Sweet		4320	5510	10120	7310	6990	8320	8140	7240
Tift	4580			9860	7350	7580			7110
Grazer W							6380	10180	8200
Georgia 337		3920	6420	9290	7180	7070	5660		6680
Oklahoma Exp.						7350	5370		6450
Stoneville Sel.			6230	8750	7890	6390	5070		6450
Sweet 372	4860	4500	5820	8240	6750	5650		5340	5980
Greenleaf	4750	3750	5830	6490	6950	6550	5130	6040	5820
Lahoma	4830	3590	5740	8420	6290		4178		5800
Wheeler	5540						4890		5300
PAG-34								10490	9920
Hay Grazer								10330	9760
Trudan I								10050	9480
Sweet Sioux								9800	9230
Rhodesian X Stoneville Syn.								9360	8790
Suhi-1								7830	7260
LSD (.05)	N.S.	N.S.	N.S.	1730	1950	2350	N.S.	2130	
C.V. (%)	19.0	16.0	19.2	21.9	22.5	7.0		32.2	
No. of clippings	3	3	4	3	3	4	3	3	

NAME OF TEST: Sudan Variety Forage Evaluation Test, 1961.

OBJECTIVES: To try to ascertain the characteristics of a Sudan variety that would be best adapted for South Texas condition through its relative forage-production characteristics.

EXPERIMENTAL PROCEDURE:

Experiment No.: 3791-01

Location: Substation No. 1, Beeville

Soil Type: Glareville sandy clay loam

Experiment design: Randomized block, 3 replications, 2-row plots (38" x 40' long).

Crop Management: Test planted March 3. Soil was in ideal cultivated and moisture condition. Seeding rate was 12 pounds per acre. No irrigation was applied. The area was fertilized on December 18, 1961 at the rate of 30-16-0. The fertilizer was applied in bands followed by bedding.

Source of material: E. G. Holt, College Station, Texas.

RESULTS: See tables.

DISCUSSION: Three clippings were made: June 15, August 9, October 11. The development of a Sudan with a longer life cycle that will

Forage yield of Sudan varieties, hybrids, and seed mixtures, Beeville, 1961

Variety or Mixture	Pounds of air-dry forage per acre			
	June 15	Aug. 9	Oct. 11	Total
Redlan x Sweet	3670	5090	1860	10620 a
Grazer W	2810	6160	1360	10330 ab
Hay Grazer	3420	5230	1440	10090 abc
Redlan x Piper	2500	5640	1790	9930 abc
Sudax 11	3320	4450	1520	9290 abcd
Grazer	2830	4980	1190	9000 abcd
Kow Kandy	2400	5160	1430	8990 abcd
Sorghum Almum	2090	4600	2040	8730 abcd
Suhi-1 (Rhod x Tift)	1910	4390	1490	7790 bcde
Sorgrass	1640	4190	1920	7750 bcde
Tenn. Syn. #1	1870	4640	1160	7670 cde
Sweet Sioux	2040	4300	1280	7620 cde
Piper	1600	4310	1230	7140 def
Stoneville Syn.	2260	3840	1030	7130 def
Rhod. x Stoneville Syn.	1570	3810	1620	7000 def
Okla. Piper x S. prop.	1420	3530	990	5940 efg
Greenleaf	1340	2710	1300	5350 efgh
Common	1060	2860	810	4730 fgh
Sweet 372	900	2330	530	3760 gh
50% Common x 50% Sweet	1090	1650	660	3400 h
C. V. (%)				39.4

Total yield values with a common letter designation do not differ significantly.

DISCUSSION CONTINUED: produce forage as late as October will help bridge the gap between the warm-season annuals that go out in August and the cool-season plants that do not produce forage until late November or December. Essentially all of the hybrids in this test produced satisfactory growth in September and October. Only Sweet and Common Sudan yielded less than 1000 pounds in early October. Grazer, Sudax 11, Haygrazer, Redlan x Piper, Kow Kandy and Sorghum Almum were highest yielding. Also, the mixtures look promising. Normally, common, Piper, Greenleaf, and regular sweet sudans only furnish grazing up to August.

PROJECT: 1240

DATE SUBMITTED: October, 1962

WORKER: Billy Conrad

Forage yield of Sudan varieties and hybrids
Beeville, 1958-62

Variety	Pounds of air-dry forage per acre 1958	1959	1960	1961	Comparable Average 1958-61
Sudax 11		6250		9290	7170
Grazer			5690	9000	6730
Sorghum Almum	5630		5260	8730	6390
50% Sorgrass-50% Grazer			4920		5260
Stoneville Synthetic #1	3930	4690	3970	7130	4930
Perennial Sweet sorgrass	4610	3690	3270	7750	4830
Tift	4290	3910	3800		4520
Piper	3580	2820	3990	7140	4380
Stoneville Selection	4490	4090	3010		4350
Common	2880	3420	4700	4730	3930
Lahoma	2360	3530			3560
Greenleaf		2980	3040	5350	3530
Georgia 337	2900	2640	3410		3500
Sweet 372	2390	3730	3090	3760	3240
50%Sweet-50%Common	2430	3580	3510	3400	3230
Redlan x Sweet				10620	9060
Grazer W				10330	8770
Haygrazer				10090	8530
Redlan x Piper				9930	8370
Kow Kandy				8990	7430
Suhi-1 (Rhod x Tift)				7790	6230
Tenn. Syn. #1				7670	6110
Sweet Sioux				7620	6060
Rhod. x Stone. Syn.				7000	5440
Okla. Piper x S. prop.				5940	4380
LSD (.05)	780	560	890	2800	
C.V. (%)	14.4	10.4	12.1	39.4	
No. of cuttings	3	3	3	3	

NAME OF TEST: Sudan variety and fertilizer tests, 1962.
EXPERIMENTAL PROCEDURE:
Location: Substation No. 5, Temple, Texas
Soil type: Houston clay
RESULTS: See tables
SUMMARY: 1. Three clippings were made on both the variety and fertilizer tests.
2. Sudax and Grazer were the top forage producers in the variety test.
3. Fertilization did not produce enough increase in forage to pay for its use.

PROJECT: 1240
DATE SUBMITTED: March, 1963
WORKER: E. D. Cook

Table 1. Results of sudan variety test, Temple, Texas, 1962.

	Pounds per acre of dry forage			
Variety	1st clipping July 3	2nd clipping September 19	3rd clipping November 7	Total
Sudax	4605	2590	455	7650
Grazer	4010	2570	410	6990
Sorghum almum	2445	1755	315	4515
Piper 34710	2175	1755	280	4210
Common	2280	1410	310	4000
Tift	1580	1955	275	3810
Sweet	1840	1660	290	3790
Perennial Sweet	725	750	180	1655

Table 2. Results of sudan fertilizer test, Temple, Texas, 1962.

Treatment	Pounds per acre of dry forage			
	1st clipping June 14	2nd clipping August 20	3rd clipping November 6	Total
0-0-0	3245	3365	830	7440
0-30-0	3405	3380	775	7560
0-60-0	3540	3780	690	8010
30-0-0	2475	4035	1010	7520
30-30-0	3295	4365	850	8510
30-60-0	3395	3850	890	8135
60-0-0	2575	4140	1230	7945
60-30-0	2880	3920	1175	7975
60-60-0	3065	4430	1195	8690
90-0-0	2110	4345	1260	7715
90-30-0	2725	3830	1185	7740
90-60-0	3000	4080	1125	8205

NAME OF TEST: Sudangrass Performance Test, 1962.
EXPERIMENTAL PROCEDURE:
Location: McGregor, Texas
RESULTS: See tables

PROJECT: 1240
DATE SUBMITTED: June, 1963
WORKER: M. J. Norris

Sudangrass Performance Test, McGregor, 1962

Variety or Strain	Hay yield, lbs. per acre 7-2	Total
Sorghum almum	5574	6670
Perennial sweet sorgrass	4324	5130
Johnsongrass	2654	3148
Su Graze	6172	7049
Hy Su	6195	7539
Sweet Sudan 372	4440	5290
Common Sudan	3008	3998
Sweet Sioux	6270	7461
T. E. Haygrazer	6548	7580
Sudax 11	6596	7717
Greenleaf	4360	5243
Suhi 1	5755	6759
Piper	4753	5536
Okla. (Piper x S. prop)	4923	5719
A378 Redlan x Sweet	6939	8157
Stoneville Synthetic	4668	5494
A4692 (Highland x Atlas) x Sweet	6337	7478
A378 Redlan x Piper	6724	8022
Rhodesian x Stoneville Syn.	5632	6734
A4692 (Highland x Atlas) x Piper	6589	8107

Summary Sudan Forage Test at McGregor
1960-1962

Variety or Strain	Years in test	Acre yield Air-dry forage Comparable Average 1st clipping	Total yield
Sweet Sudan 372	3	4434	6182
Piper	3	4866	6965
Greenleaf	3	4814	6884
Stoneville Synthetic	3	4923	7495
Okla. (Piper x S. Propinquum)	3	4799	7143
Sorghum Almum	3	5340	7768
Perennial Sweet Sudan	2	4034	6294
Sweet Sioux	1	6347	8875
Su Grass	1	6480	9365
Su Graze	1	6249	8463
Sudax 11	2	6673	9142
Hy Su	2	6435	9350
Perennial Sweet Sorgrass	1	4401	6544
Common Sudan	1	3085	5412
Tift	1	4622	6632
Texas 9901	1	5294	7996
Texas 9902	1	5257	7648
Georgia 337	1	5094	7307
Wheeler	1	3339	4326
Lahoma	1	4993	8200
Suhi - 1	1	5832	8173
Stoneville Selection	2	5632	8114
Johnsongrass	2	2177	3174
T.E. Haygrazer	1	6625	8994
Grain Grass 3054 x Sw. Sudan	1	5921	8121
Grain Grass 3054 x Piper	1	5982	7789
BK. Kafir x Sweet Sudan	1	7739	12026
BK. Kafir x Piper	1	6389	9342
F1 Hybrid Sudan	1	7811	11454
A378 Redlan x Sweet	1	7016	9571
A378 Redlan x Piper	1	6801	9436
A4692 (Highland x Atlas) x SW	1	6414	8892
A4692 (Highland x Atlas) x Piper	1	6666	9521
Rhodesian x Stoneville Syn..	1	5709	8148

NAME OF TEST: Sudan and Millet variety test, Mt. Pleasant, 1962.
OBJECTIVE: To determine the yielding and adaptation of sudan and millet to the Northeast Texas area.
EXPERIMENTAL PROCEDURE:
Experiment No.: 3821-01 and 02
Location: D. C. Hinson farm, Mt. Pleasant
Soil type: Sawyer fine sandy loam
Source of materials: Dr. E. C. Holt, Soil & Crop Sciences Department
Experimental design: (a) Randomized, 4 reps; (b) Plot size: 3 rows planted 36 inches apart, 30 feet long, area clipped for yield 20 feet of 1 row (center row).
CROP MANAGEMENT PRACTICES:
Planted: May 9, 1962
Fertilized: 30-60-60, May 8, 1962
GENERAL: The weather conditions were slightly below normal for this period of growth. The rainfall for this period was 8.34 inches.
NOTE: The leaf percentage was determined by weighing 5 plants, removing the leaves, weighing the leaves, and then calculating the percentage of the plant that was leaves.
RESULTS: See tables
PROJECT: State 1240
DATE SUBMITTED: November, 1962
WORKER: J. A. Lancaster

Forage yield of Millet and Sudan varieties
at Mt. Pleasant, 1962

Variety	Pounds of air-dry forage per acre June 8	June 22	July 8	Total	
Gahi-1	780	840	850	2470	a
PAG 34	370	580	1470	2420	ab
Common Pearl Millet	760	1030	610	2400	ab
Hybrid SJ	760	760	860	2380	ab
Starr Pearl Millet	480	860	930	2270	abc
Redlan X Sweet	430	510	1310	2250	abc
Rhodesian X Stoneville Selec.	190	620	1340	2150	abcd
Grazer	410	610	1130	2150	abcd
Redlan X Piper	400	530	1170	2100	abcde
Highland X Atlas X Piper	400	540	1120	2060	abcdef
Sudax 11	230	480	1260	1970	abcdefg
Suhi-1	160	460	1350	1970	abcdefg
PAG 35	310	470	1070	1850	bcdefgh
Highland X Atlas X Sweet	340	390	990	1720	cdefgh
Oklahoma Piper X S. prop.	140	500	950	1590	defgh
Piper	270	440	850	1560	efgh
Bk. Kafir X Piper	290	380	860	1530	fgh
Sweet 372	120	550	850	1520	fgh
Stoneville Synthetic	110	380	940	1430	gh
Greenleaf	150	510	770	1430	gh
Tennessee Synthetic #1	140	400	840	1380	h
C.V.(%)				30.1	

Total yield values with a common letter designation do not differ significantly.

Forage yield of Millet and Sudan Varieties
Mt. Pleasant, 1959-62

Variety	Pounds of air-dry forage per acre 1959	1960	1961	1962	Comparable Average 1959-62
Grazer W			940	2150	2250
Sudax 11	2610		780	1970	2210
Tift	2610	3040			2130
Sorghum almum	2340		790		2040
Piper	2070	3320	680	1560	1910
Greenleaf	1740	3150	720	1430	1760
Stoneville Synthetic	1940	2760	760	1430	1720
Stoneville Selection	1740		740		1720
Oklahoma Experimental		2740	700	1520	1690
Sweet 372	1760	2680	730		1620
Perennial Sweet	2070	1850	670		1420
Lahoma	1940	2040	600		1420
Georgia 337	1920	2240			1380
Gahi-1				2470	2790
PAG 34				2420	2740
Common Pearl Millet				2400	2720
Hybrid SJ				2380	2700
Starr Pearl Millet				2270	2590
Suhi-1				1970	2290
PAG 35				1850	2170
Tennessee Synthetic #1				1380	1700
LSD (.05)	800	510	100	470	
C.V.(%)	24.4	30.5	11.6	30.1	
No. of cuttings	3	4	2	3	

Percent of leaves of Millet and Sudan varieties
Mt. Pleasant, 1962

Variety	June 8	June 22	July 8	Average	
Starr Pearl Millet	65.0	60.5	44.5	56.7	a
Gahi-1	66.0	47.0	47.5	53.5	ab
Hybrid SJ	58.0	41.0	52.0	50.3	abc
Common Pearl Millet	61.5	39.5	43.0	48.0	abcd
PAG 35	42.0	57.5	43.5	47.7	bcd
Suhi-1	51.0	52.0	32.0	45.0	bcde
Sweet 372	49.5	40.5	41.0	43.7	cde
Sudax 11	49.0	52.0	30.0	43.7	cde
Rhodesian X Stoneville Selec.	53.0	43.0	33.5	43.2	cde
Redlan X Sweet	53.5	43.0	33.0	43.2	cde
Greenleaf	49.0	46.5	33.0	42.8	cde
Tennessee Synthetic #1	44.5	48.5	35.0	42.7	cdef
Stoneville Synthetic	48.0	44.0	32.5	41.5	cdefg
Redlan X Piper	43.5	42.0	39.0	41.5	cdefg
Bk. Kafir X Piper	48.0	47.5	27.5	41.0	cdefg
PAG 34	43.5	48.0	31.0	40.8	cdefg
Highland X Atlas X Sweet	48.0	40.5	34.0	40.8	cdefg
Grazer	46.5	36.5	35.5	39.5	defg
Oklahoma Piper X S. Prop.	42.5	44.0	28.5	38.3	defg
Highland X Atlas X Piper	38.5	44.0	28.0	36.8	efg
Piper	37.5	38.5	22.5	32.8	g

C.V. (%) 15.9
Total yields with common letter designation do not differ significantly.

NAME OF TEST: Millet variety forage yields, College Station, 1962
OBJECTIVES: To evaluate the forage yielding ability of Millet varieties and hybrids under good growing conditions.
EXPERIMENTAL PROCEDURE:
Experiment No.: 3839-01
Location: Brazos River Valley Laboratory near College Station
Soil type: Miller clay
Cultural practices: Planted May 4, 1962 in plots consisting of 3 40-inch rows, 17 feet long, 5 replications. Fertilized with 48-48-48 prior to planting. Irrigated 2 times during growing season.
RESULTS: See tables

PROJECT: 1240
DATE SUBMITTED: November, 1962
WORKER; Ethan C. Holt

Forage yield of Millet varieties near College Station, 1962

Variety	Pounds of dry forage per acre
Common Sudan	7010 a
Gahi-1	6310 a
Common	5040 ab
Starr	4130 ab
Hybrid SJ	3970 ab
71 Millet	2000 b
LSD (.05)	3020
C.V.(%)	48.3

	Period of Years Summary					Comparable
Variety	1958	1959	1960	1961	1962	Average
Gahi-1	9250	6650	5480	5520	6310	6640
Common	6550	6780	4990	4480	5040	5570
Hybrid SJ	6710	7120	4490	4960	3970	5450
Starr	7980	5560	5080	4210	4130	5390
Texas No. 7	7350	6130	4360	4330		5320
Common Sudan					7010	7910
71 Millet					2000	2900
LSD (.05)	2010	1680	N.S.	N.S.	3020	
C.V. (%)	29.9	38.3	40.4	31.4	48.3	
No. of cuttings	3	3	3	3	1	

NAME OF TEST: Gahi Pearl Millet evaluation.
OBJECTIVE: To determine the forage yield of Gahi Pearl Millet with different seeding and spacing practices.
EXPERIMENTAL PROCEDURE:
Experiment No.: 3822
Location: D. C. Hinson farm, Mt. Pleasant, Texas
Soil type: Sawyer fine sandy loam
Source of materials: Dr. E. C. Holt
Cultural practices: Planted May 5, 1962, row plots 30 feet long with spacings of 18 and 36 inches; Broadcast plots 7 feet by 30 feet; Split plot design with 4 replications. A 30-60-60 fertilizer broadcast prior to planting.
Area clipped for yield
(a) Broadcast: 34 inches by 20 feet
(b) Row: 1 row (center row of 3 row plot) 20 feet.
GENERAL: The weather conditions during the growing season were below normal for this area. Moisture was a limiting factor at several times. The total rainfall was 8.49 inches.
PROJECT: State 1240
SUBMITTED: November, 1962
WORKER: J. A. Lancaster

Gahi Pearl Millet Evaluation
Mt. Pleasant, 1962

Method	Rate	Pounds of air-dry forage per acre June 14	July 24	Total	Average
Broadcast	8 lbs.	830	1190	2020	
	16 lbs.	950	1370	2320	
	24 lbs.	1200	1190	2390	
	32 lbs.	1290	1280	2570	2325
18"	4 lbs.	1660	1910	3570	
	8 lbs.	1710	2150	3860	
	12 lbs.	1630	1810	3440	
	16 lbs.	1670	1930	3600	3620
36"	2 lbs.	1040	1610	2650	
	4 lbs.	1160	1760	2920	
	6 lbs.	1140	1860	3000	
	8 lbs.	1100	1700	2800	2840
C.V. (%)				27.7	

NAME OF TEST: Sorghum silage variety test, BRVL, 1962

OBJECTIVES: To determine the yield of several sorghum hybrids in comparison with standard varieties and to study agronomic characteristics of the various varieties and hybrids.

EXPERIMENTAL PROCEDURES:

Location: Brazos River Valley Lab near College Station

Soil type: Miller clay

Cultural practices: Planted on May 11 in plots consisting of three 40-inch rows, 20 feet long, 5 replications. Fertilized with 48-48-48 prior to planting. Watered as necessary to maintain adequate moisture for growth, 2 irrigations used in 1962.

Source of seed:

Honey, Tracy, Atlas and Sart from commercial sources.

Beef Builder and Silo King are hybrids supplied by the Asgrow Seed Company.

FS-1A and FS-22 are Dekalb hybrids and the seed was the same as that used in 1959.

Milkmaker, Yieldmaker and Haygrazer are hybrids supplied by the Taylor-Evans Seed Company.

3 Little Indians is a Paymaster Seed Company hybrid.

Kow Kandy is a hybrid supplied by R. C. Young Seed Company

Yield data: Each variety or hybrid was harvested in the medium dough stage when this could be determined. Heads of some of the late entries formed poorly and did not mature normally.

RESULTS: See Tables

DISCUSSION: Green yields varied from 16.6 to 25.7 tons per acre. Yields were 5 to 10 tons below the period of years averages. The entries requiring about 90 to 110 days to reach harvest stage and producing 20 to 25 tons were the most promising in this test.

PROJECT: State 1240

DATE SUBMITTED: January, 1963

WORKER: E. C. Holt

Yield of sorghum varieties and hybrids
Brazos River Valley Lab, 1962

Variety or hybrid	Green Tons/ac	Dry Tons/ac	% moisture	Days to maturity
Beef Builder	25.7	6.8	74.4	111
Sart	25.0	5.4	78.4	137
Honey	23.7	4.7	80.0	111
FS-22	23.5	5.9	74.8	83
Milkmaker	22.1	6.0	73.3	111
Yieldmaker	21.8	6.3	70.8	89
Tracy	20.7	4.9	78.4	83
Silo King	20.0	5.1	74.2	83
FS-1A	19.8	5.0	74.6	89
3 Little Indians	19.7	5.1	73.6	108
Haygrazer	19.6	4.9	75.0	108
Crop Guard	19.3	4.3	77.8	108
Kow Kandy	18.1	4.3	76.4	108
Atlas	16.6	3.8	77.0	83
LSD (.05)	N.S.	1.5		
C.V. (%)	21.6	22.6		

Green and dry yield of sorghum varieties and hybrids at BRVL
1958-62

	Tons per acre										Comparable Average	
	1958		1959		1960		1961		1962			
Variety	Green	Dry	Green	Dry	Green	Dry	Green	Dry	Green	Dry	Green	Dry
Honey	51.3	9.8	34.1	6.4	41.8	5.8	20.2	5.3	23.7	4.7	34.2	6.4
Sart	49.5	13.5	34.8	8.0	36.4	9.2	16.9	5.0	25.0	5.4	32.5	8.2
Beef Builder	40.2	9.2	30.4	8.7	39.8	7.6	20.0	6.2	25.7	6.8	31.2	7.7
FS-22			29.0	6.6			21.1	5.7	23.5	5.9	29.7	7.1
Wiley	35.5	10.2			34.0	10.4	21.8	7.5			28.7	9.0
Tracy	37.9	8.7	29.2	6.2	31.7	7.0	20.8	5.1	20.7	4.9	28.1	6.4
FS-1A			27.0	6.9			14.4	4.0	19.8	5.0	25.6	6.3
Silo King	31.4	8.5	25.2	5.5	26.9	5.5	16.7	3.6	20.0	5.1	24.0	5.6
Hi-hegari	35.6	8.5	22.8	5.7			12.9	2.4			23.0	5.1
Atlas	29.3	7.0	26.5	5.9	20.9	3.9	16.5	4.4	16.6	3.8	22.0	5.0
Milkmaker									22.1	6.0	28.8	7.5
Yieldmaker									21.8	6.3	28.5	7.8
Haygrazer									19.6	4.9	26.3	6.4
Crop Guard									19.3	4.3	26.0	5.8
Kow Kandy									18.1	4.3	24.8	5.8
LSD (.05)			4.1	1.9	5.5	1.8	4.6	1.5	N.S.	1.5		
C.V. (%)			8.0	12.2	14.0	20.9	14.4	26.4	21.6	22.6		

NAME OF TEST: Silage Sorghum Variety Evaluation Test, 1962
OBJECTIVES: To try to ascertain the characteristics of Sorghum varieties and hybrids that would be best adapted for South Texas conditions through relative forage-production characteristics.
EXPERIMENTAL PROCEDURE:
Location: Substation No. 1, Beeville
Soil type: Clareville sandy clay loam
Experiment design: Randomized block, 4 replications, 2-row plots (38" x 40' long).
Crop management: Test planted March 3. Soil was in ideal cultivated and moisture condition. Seeding rate was 8 pounds per acre. No irrigation was applied. The area was fertilized on December 18, 1961 at the rate of 30-16-0. The fertilizer was applied in bands followed by bedding.
RESULTS: See tables
PROJECT: 1240
DATE SUBMITTED: October, 1962
WORKER: Billy Conrad

Silage Sorghum Variety Evaluation Test
Beeville, 1962

Variety	Green Yield Tons/acre	% Dry Matter	Dry Tons/acre
Milk Maker	12.4	33	4.1
Beef Builder	11.8	33	3.9
FS-22	11.7	39	4.6
Yield Maker	10.6	37	3.9
Honey	11.6	33	3.8
Silo King	9.7	38	3.7
Atlas	9.6	38	3.6
Hay Grazer	8.2	41	3.4
Brawley	6.8	48	3.3
50% Sweet 50% Atlas	7.5	40	3.0
Sart	7.6	35	2.7
Sumac	6.7	35	2.4
3 Little Indians	6.4	36	2.3
High. X Atlas X Sweet	6.0	33	2.0
FS 1A	5.7	35	2.0
Hay Maker	4.8	38	1.8
High. X Atlas X Piper	4.0	38	1.5
LSD (.05)	1.6		
C. V. (%)	13.5		

Forage yield of sorghum varieties and hybrids grown for silage
Beeville, 1959-62

Variety	1959		1960		1961		1962		Comparable Average	
	Green	Dry	Green	Dry	Green	Dry	Green	Dry	Green	Dry
Sart	13.9	7.0	7.6	2.8	12.2	4.9	7.6	2.7	10.3	4.4
Beef Builder			7.6	3.3	11.7	4.4	11.8	3.9	10.8	4.4
Wiley			8.6	3.8	9.3	3.5			9.6	4.3
FS 22					9.2	3.0	11.7	4.6	10.0	4.2
Honey	10.6	5.1	8.9	3.7	12.3	3.8	11.6	3.8	10.9	4.1
Silo King			6.6	2.9	7.8	2.6	9.7	3.7	8.5	3.6
Brawley					6.9	2.8	6.8	3.3	6.4	3.5
Tracy	5.5	3.7	7.4	3.6	9.1	3.0			7.3	3.3
Atlas	8.9	4.3	6.0	2.4	7.6	2.2	9.6	3.6	8.0	3.1
Sourless	6.0	3.2	7.0	3.0					6.9	2.8
FS 1A					7.4	2.6	5.7	2.0	6.1	2.7
Sumac	6.4	3.1			6.8	2.2	6.7	2.4	5.9	2.3
Hegari (Regular)	4.8	2.6	4.0	1.7	6.0	2.2			4.9	2.0
Milk Maker							12.4	4.1	12.5	4.6
Yield Maker							10.6	3.9	10.7	4.4
Hay Grazer							8.2	3.4	8.3	3.9
Hay Maker							4.8	1.8	4.9	2.3
3 Little Indians							6.4	2.3	6.5	2.8

NAME OF TEST: The yield of sorghum varieties and hybrids for silage at Tyler, 1962.
OBJECTIVES: To determine the yielding ability of several new sorghum hybrids in comparison with standard varieties.
EXPERIMENTAL PROCEDURE:
Experiment No. 3791
Location: Substation No. 2, Tyler, Texas
Soil Type: Bowie loamy fine sand
Cultural Practices:
Date Planted: May 30, 1962
Fertilizer: 25-50-25 at planting, 67-0-0 side dressing June 11, 1962.
Harvested: September 5, 1962
Size of plots: Planted - 4 rows, 30 feet long
Harvested - 2 rows, 30 feet long
Soil moisture was critical first three weeks of July, and last two weeks of August. It is estimated that yield was reduced 25 to 40 percent by lack of sufficient, well-distributed soil moisture.
RESULTS: See tables
PROJECT: State 1240
DATE SUBMITTED: October, 1962
WORKER: P. R. Johnson

Forage yield and agronomic characteristics of sorghum varieties and hybrids grown for silage at Tyler, 1962

Variety or hybrid	Green tons/ac	Dry[1] tons/ac	% moisture	70% Moisture[1] tons/ac	Days to full bloom	Plant height (feet)	Head Quality
Lindsey 115F	16.8	3.5 a	79.2	11.5 a	85	8.0	Good
Beef Builder	15.9	3.1 abc	80.2	10.3 abc	0	7.0	None
NK 300	11.9	3.1 abc	74.0	10.2 abc	77	5.0	Good
HO-K [4]	14.3	3.0 abc	79.1	10.0 abc	74	9.0	Good-open
NK 320	13.2	2.8 abcd	78.9	9.4 abcd	77	7.5	Good
3 Little Indians	10.4	2.7 abcde	73.9	9.1 abcde	63	8.0	Fair
X-3058	10.3	2.6 abcde	73.7	8.7 abcde	72	7.5	Medium
NK 145	7.7	2.6 abcde	66.2	8.7 abcde	48	5.5	Fair-open
X-3059	13.1	2.6 abcde	80.2	8.6 abcde	88	5.5	Good
Lindsey 101F	11.8	2.6 abcde	78.2	8.5 abcde	82	5.0	Good
Crop Guard	10.0	2.4 bcdef	75.4	8.1 bcdef	67	7.5	Small[2]
Lindsey 92F	10.3	2.4 cdef	76.6	8.0 cdef	63	7.0	Medium
FS 22	10.8	2.2 cdef	79.7	7.3 cdef	75	8.0	Good
FS 1A	7.1	1.9 def	73.6	6.4 def	76	4.5	Good
Atlas	8.4	1.8 ef	78.8	5.9 ef	74	7.0	Small
Brawley[3]	5.7	1.5 f	73.0	5.1 f	71	7.0	Small-open

[1] The values within the column having the same letter do not differ at the 5% level of probability.
[2] Incomplete pollination
[3] 50% lodged
[4] 50% lodged

Green and Dry Yield of Sorghum Varieties and Hybrids Grown for Silage at Tyler, 1958-62

Variety	Green Tons Per Acre					Dry Tons Per Acre				
	1958	1959	1960	1961	1962	1958	1959	1960	1961	1962
Beef Builder	31.0	16.2	20.9	23.3	15.9	7.4	4.0	4.5	5.3	3.1
Sart	27.6	15.0	18.6			5.2	3.9	3.0		
Hi-hegari	20.1	5.6	15.3			4.8	1.3	3.6		
DeKalb FS-1	18.8	9.1		14.3	7.1	4.3	2.4		3.4	1.9
Atlas	21.1	9.6	15.4	16.2	8.4	4.6	2.1	3.2	3.5	1.8
Honey	25.6	13.1	22.6			4.4	2.2	3.7		
Silo King	20.1	10.5	15.2			4.6	3.0	3.6		
Tracy	19.6	11.2	16.0			3.3	2.2	2.9		
Lindsey 115F				23.0	16.8				5.0	3.5
NK 320				22.8	13.2				4.5	2.8
NK 300				21.0	11.9				4.7	3.1
X-3058				19.6	10.3				4.6	2.6
FS-22		14.4	17.7	16.6	10.8		3.2	3.8	4.4	2.2
Lindsey 101F				18.9	11.8				4.1	2.6
Brawley				15.9	5.7				3.8	1.5
Lindsey 92F				15.9	10.3				4.0	2.4
Wiley			17.4	15.6				3.1	2.8	
NK-145				12.0	7.7				3.4	2.6
HO-K					14.3					3.0
3 Little Indians					10.4					2.7
Crop Guard					10.0					2.4
X-3059					13.1					2.6
Sugar Drip			18.8					3.7		
Sourless Orange			16.0					3.4		
Sumac			14.4					3.3		

NAME OF TEST: Forage Sorghum variety and fertilizer tests, 1962.
EXPERIMENTAL PROCEDURE:
Location: Substation No. 5, Temple, Texas
Soil type: Houston clay
RESULTS: See tables
SUMMARY: 1. Two clippings were made on both the variety and fertilizer tests.
2. The first clipping outyielded the second clipping greatly, principally due to dry weather.
3. Fertilization, generally speaking, did not produce enough increase to warrant its use.
4. The top four varieties in the variety test were Lindsey H-5F, Asgrow 5820, Silo King, and Sumac.

PROJECT: 1240
DATE SUBMITTED: March, 1963.
WORKER: E. D. Cook

Table 1. Results of forage sorghum variety test, Temple, Texas, 1962.

Variety	Pounds per acre dry forage		
	1st clipping August 3	2nd clipping November 9	Total
Lindsey H-5F	9460	1610	11070
Asgrow 5820	7955	1930	9885
Silo King	8195	1560	9755
Sumac	7740	1420	9160
Honey	8260	700	8960
N. K. 320	7435	1505	8940
Atlas	7220	1460	8680
Hegari	6950	1525	8475
Tracy	6090	1090	7180

Table 2. Results of forage sorghum fertilizer test, Temple, Texas, 1962.

Treatment	Pounds per acre dry forage		
	1st clipping August 2	2nd clipping November 8	Total
0-0-0	7770	1125	8895
0-30-0	8395	1240	9635
0-60-0	8195	1075	9270
30-0-0	7885	2130	10015
30-30-0	6805	1940	8745
30-60-0	8850	1910	10760
60-0-0	7130	2020	9150
60-30-0	8345	2040	10385
60-60-0	8310	2170	10480
60-60-60	8725	1960	10685
90-0-0	7405	1720	9125
90-30-0	7765	2105	9870
90-60-0	7710	2100	9810

NAME OF TEST: Evaluation of forage sorghum varieties at Mt. Pleasant, 1962.
OBJECTIVE: To determine the adaptability and yield of sorghums in this area.
EXPERIMENTAL PROCEDURES:
Experiment No.: 3823
Location: Billy Porter farm, Mt. Pleasant
Source of materials: Dr. E. C. Holt
Experiment design: (a) Randomized, 4 replications; (b) Plot size: 4 rows planted 40 inches apart, 30 feet long, area clipped for yield, 2 center rows 20 feet long.
CROP MANAGEMENT PRACTICES:
Planted: May 7, 1962
Fertilized: 30-60-60, May 7, 1962
Top dressed: 30-0-0, June 14, 1962
GENERAL: The weather conditions during the growing season were below normal. The total rainfall was 11.42 inches.
PROJECT: State 1240
DATE SUBMITTED: November, 1962
WORKER: J. A. Lancaster

Evaluation of forage sorghum varieties
Mt. Pleasant, 1962

Variety	Green Yield (Tons)	Dry Yield (Tons)
Beef Builder	23.8 abc	6.8 a
3 Little Indians	17.7 efgh	6.4 ab
Yield Maker	22.5 abcd	6.3 ab
Milk Maker	24.0 ab	5.7 abc
Sweet Sioux	14.0 h	5.7 abcd
Sart	24.8 a	5.3 bcde
Silo King	17.6 efgh	5.2 bcdef
Hay Grazer	17.6 efgh	5.2 bcdef
Crop Guard	18.3 efg	5.1 bcdef
Kow Kandy	15.7 fgh	4.7 cdef
FS 22	18.7 ef	4.6 cdef
Tracy	20.1 cde	4.5 cdef
Wiley	20.1 cde	4.4 def
Atlas	17.5 efgh	4.3 ef
FS 1A	14.5 gh	3.9 f

Total yield values with a common letter designation do not differ significantly.

C. V. (%)	12.9	15.3

Evaluation of forage sorghum varieties
Mt. Pleasant, 1959-62

Variety	1959 Green	1959 Dry	1960 Green	1960 Dry	1962 Green	1962 Dry	Comparable Average Green	Comparable Average Dry
Beef Builder	22.8	16.6	27.6	8.5	23.8	6.8	24.7	10.6
Sart	20.0	14.4	27.7	7.7	24.8	5.3	24.2	9.1
3 Little Indians					17.7	6.4	17.3	8.8
Yield Maker					22.5	6.3	22.1	8.7
Honey	19.7	11.3	31.2	7.7			25.6	8.3
Milk Maker					24.0	5.7	23.6	8.1
Sweet Sioux					14.0	5.7	13.6	8.1
Sugar Drip			25.6	6.8			22.3	7.7
Hay Grazer					17.6	5.2	17.2	7.6
Crop Guard					18.3	5.1	17.9	7.5
Kow Kandy					15.7	4.7	15.3	7.1
Wiley			21.2	5.4	20.1	4.4	18.8	6.6
FS22	15.5	9.1			18.7	4.4	18.7	6.3
Silo King	13.3	6.9	22.2	5.9	17.6	5.2	17.7	6.0
Regular hegari			18.2	5.0			14.9	5.9
Tracy	14.1	7.1	20.6	5.8	20.1	4.5	18.3	5.8
Atlas	10.0	5.3			17.5	4.3	15.4	4.3
FS 1A	10.6	4.5			14.5	3.9	14.2	3.7
Hi-hegari	11.2	5.6					14.8	2.2
LSD			4.6	1.2	3.5	1.1		
C.V.(%)			13.8	12.9	12.9	15.3		

NAME OF TEST: Silage Performance Test, 1962
EXPERIMENTAL PROCEDURE:
Location: McGregor, Texas
RESULTS: See tables

PROJECT: 1240
DATE SUBMITTED: June, 1963
WORKER: M. J. Norris

Silage Performance Test
McGregor, 1962

Variety	Acre yield, lbs.	
	Air-dry[1]	Silage[2]
Wiley	7498	13,121
Sart	8365	14,638
Tracy	7335	12,836
Bradley	7217	12,629
Cropguard	7138	12,491
3 Little Indians	6831	11,954
Grazer-W	5941	10,396
Milkmaker	10951	19,164
Beef Builder	10228	17,899
Honey	9153	16,017
Atlas	5756	10,073
Yieldmaker	9656	16,898
Silo King	6347	11,107
F.S. 22	7786	13,625
F.S. 1A	6072	10,626
N.K. 330	9578	16,761
N.K. 320	9032	15,806
N.K. 315	7397	12,944
N.K. 300	8845	15,478

1/ Air-dry forage averaged 25% moisture.

2/ Silage yields calculated at 70% moisture.

Summary Silage Forage Test at McGregor
1960-1962

Variety or Strain	Years in test	Comparable Yield Pounds per acre Air-dry[1]	Silage[2]
Atlas	3	10,099	17,673
Sart	3	13,308	23,289
Tracy	3	12,434	21,759
Honey Sorgo (Texas)	3	13,403	23,455
Northrup King 300	3	12,066	21,115
Sourless Orange	1	10,901	19,077
Regular Hegari	2	7,340	12,845
Wiley	2	11,328	19,824
Sugar Drip	1	9,315	16,301
Northrup King 145	2	7,669	13,420
Northrup King 3065	2	11,020	19,285
Northrup King 320	2	12,714	22,249
Yieldmaker (T.E.)	2	12,215	21,376
Silo King	2	11,092	19,411
Beef Builder	2	14,252	24,941
Hi-Hegari	1	10,377	18,159
Early Hegari	1	5,930	10,377
F.S. 1A	2	10,432	18,256
F.S. 22	2	12,804	22,407
Grazer-W	2	9,620	16,835
Sumac	1	7,834	13,709
Bradley	1	11,588	20,279
Cropguard	1	11,509	20,140
Milkmaker	1	15,322	26,813
N.K. 330	1	13,949	24,410
N.K. 315	1	11,768	20,594
3 Little Indians	1	11,202	19,603
R.S. 610	1	7,011	12,269
Sudax 11	2	11,038	19,316

1/ Air-dry forage averaged 25% moisture.

2/ Silage yields calculated at 70% moisture.