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Research Report No. 94
December, 1983

Part I Corn Hybrids
Part II Corn Silage
Part III Grain Sorghum
Part IV Soybeans

1983

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PERFORMANCE OF CORN HYBRIDS, CORN SILAGE, GRAIN SORGHUM AND SOYBEANS IN NORTH CAROLINA[1/]

INTRODUCTION

With the large number of commercially available and prospective hybrids and varieties of corn, grain sorghum, and soybeans, it becomes difficult for growers to select a superior variety suited for their particular area of the state and their individual farming operations. To make this decision the growers need up-to-date, unbiased, reliable information. The Official Variety Testing Program, through this report, seeks to provide that type of information.

The first section of this report is concerned with corn hybrids in all production areas of the state. The second section deals with corn silage. The third section includes data on grain sorghum. The fourth section covers data on soybeans. Each part is complete in that it contains information on experimental procedure, locations of the tests, a discussion of the data for 1983[2/], as well as summary tables for the past two and three years.

It is hoped that the organization of this bulletin will provide data in a complete form to those interested in the various crops.

Growers are cautioned against making varietal selection decisions based on an individual location in any one year, particularly for 1983. True varietal performance may have been masked by the unusual weather conditions experienced in the 1983 growing season.

[1/] The Official Variety Testing Program recognizes the cooperative spirit and civic-minded service rendered by the farmers who have furnished, prepared and cultivated the land for these trials. Research technicians Ray Adams, Saunders Bennett, and G. C. Oliver assisted in conduting these tests. Carey Parsons prepared the test and tables for this bulletin.

[2/] Statistical analyses were made in the Statistical Laboratory and Computing Center under the supervision of Dr. John O. Rawlings by Mrs. Sandra Donaghy and Mrs. Faye Childers.

Comparing Hybrids and Varieties

Performance of a hybrid or variety cannot be tested with absolute precision. Even though the tests are conducted in a uniform manner, as much as possible, uncontrollable variability exists among experimental plots due to soil, fertility, moisture, insects, diseases, and other sources of variation. Because this variability exists, statistics are used as a tool to determine differences among hybrids and varieties. The size of difference among hybrids or varieties which may have been due to chance variation is listed in each table as the L.S.D. (least significant difference) and those hybrids or varieties which do not differ by more than the L.S.D. are statistically not different. Those hybrids or varieties that do differ by more than the L.S.D. are statistically different. The Bayes L.S.D. at the K-ratio of 50 (approximately .10 level of probability) was used.

Hybrid or varietal performance may appear inconsistent among locations within an area or among years in a particular area, thus it is important for the reader to examine results from more than one location within an area or more than one year at a particular area to obtain a more accurate picture of relative hybrid or varietal performance. An effort has been made to facilitate comparisons among locations and across years in this report.

The hybrids or varieties which do not yield significantly less than the highest yielder are denoted by an asterisk (*) next to their yields; the highest yielder is denoted by a double asterisk (**) next to their yield. The relative performance of a hybrid or variety across locations within an area can be easily evaluated by going across the table; those hybrids or varieties which are most frequently marked by an asterisk would be highly desirable. Other agronomic characteristics may be as equally important as yield.

It is suggested that the grower plant a small number of acres in a new variety when first determining if it is adapted to his farm.

COOPERATORS 1983

Corn

Area I - Southern Mountains

Haywood County, Mountain Research Station, J. R. Edwards, Superintendent Waynesville, N. C., County Extension Chairman, H. E. McCall and assistants cooperating.
Henderson County, Frank Moore, Route 2, Horse Shoe, N. C., Agricultural Extension Chairman, G. W. Westmoreland, cooperating.

Area II - Piedmont

Guilford County, Ward Brothers, Route 2, Box 267E, McLeansville, N. C., Agricultural Extension Agent, Chris Ingram, cooperating.
Chatham County, David McCracken, Route 3, Siler City, N. C. County Extension Chairman, Carl Outz, cooperating.
Union County, Earl Haigler, Route 9, Monroe, N. C., Agricultural Extension Agent, Jerry Simpson, cooperating.

Area III - Coastal Plain

Duplin County, Larry and Marvin Knowles, Route 1, Teachey, N. C. Agricultural Extension Agent, J. Michael Moore, cooperating.
Johnston County, San Wood Farms, Route 2, Four Oaks, N. C. Agricultural Extension Agent, H. F. Palmer, cooperating.
Columbus County, Ralph Pridgen, Route 5, Whiteville, N. C. Agricultural Extension Agent, Robert Shaw, cooperating.
Halifax County, Fleming Brothers, Route 3, Enfield, N. C. Agricultural Extension Agent, R. D. Phillips, cooperating.
Lenoir County, Sandy Barnes, Superintendent, Lower Coastal Plain Tobacco Research Station, Kinston, N. C. Agricultural Extension Agent, Johnnie Jones, cooperating.

Area IV - Tidewater

Chowan County, Robert L. Bunch, Route 2, Edenton, N. C., County Extension Chairman, J. Michael Williams, cooperating.
Pamlico County, James Spencer, Alliance, N. C., County Extension Chairman, Fred May, cooperating.
Washington County, John Smith, Superintendent, Tidewater Research Station, Plymouth, N. C., Agricultural Extension Agent, Cole Knotts, cooperating.

Corn Silage

Rockingham County
Agricultural Extension Agent, E. Scott Shoulars, cooperating.

Rowan County
Billy Ayscue, Superintendent, Piedmont Research Station, Salisbury, N. C., David Hall and Agricultural Extension Agent, Steve Gatton, cooperating.

Grain Sorghum

Anson County
Edison Martin, Route 2, Polkton, N. C., County Extension Chairman, Gary Floyd, cooperating.

Franklin County
Elmo May, Route 2, Louisburg, N. C., Agricultural Extension Agent, Richard Rhodes, cooperating.

Union County
Kent Thomas, Monroe, N. C., Agricultural Extension Agent, Jerry Simpson, cooperating.

Washington County
John Smith, Superintendent, Tidewater Research Station, Plymouth, N. C., Agricultural Extension Agent, Cole Knotts, cooperating.

Soybeans

Duplin County
Larry and Marvin Knowels, Route 1, Teachey, N. C., Agricultural Extension Agent, J. Michael Moore, cooperating.

Rowan County
Edwin Hammill, Route 1, Gold Hill, N. C., Agricultural Extension Agent, Steve Gatton, cooperating.

Robeson County
Ronald Strickland, Route 3, Maxton, N. C., Agricultural Extension Agent, Everett Davis, cooperating.

Washington County
J. W. Smith, Superintendent, Tidewater Research Station, Plymouth, N. C., Agricultural Extension Agent, Cole Knotts, cooperating.

Late Tests After Small Grain

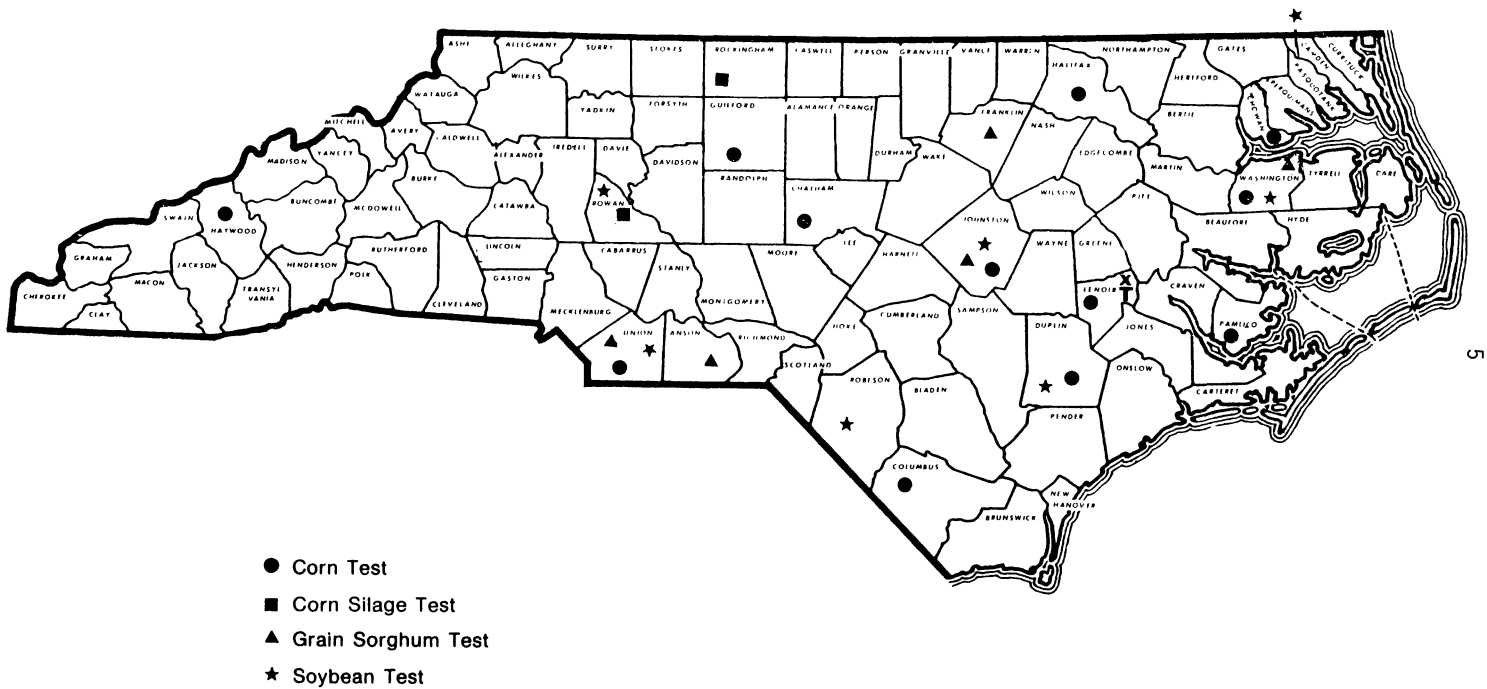
Johnston County
Tom Strickland, Route 3, Clayton, N. C., Agricultural Extension Agent, Hernando Palmer, cooperating.

Pasquotank County
Rufus Jackson, Route 2, Elizabeth City, N. C., County Extension Chairman, Donald Baker, cooperating.

Union County
Jimmy Duncan, Route 1, Indian Trail, N. C., County Extension Chairman, M. C. Howell, cooperating.

1983

FIGURE 1—LOCATION OF OFFICIAL VARIETY TEST NORTH CAROLINA AGRICULTURAL RESEARCH SERVICE



CORN HYBRIDS

The performance of various corn hybrids in different areas of the state depends on their adaptation to the environmental conditions within the area in which they are to be grown. The performance of hybrids in four different areas of North Carolina is reported in this bulletin.

Entries: Any individual or firm may make application for having hybrids tested. A fee is charged on an entry per area basis. Personnel of the testing program may also include entries about which further information is desired.

Early in January each year, rules governing the tests for the ensuing year are distributed to all previous participants and to those who make inquiry.

Agencies or individuals entering hybrids in the Official Variety Tests were requested to designate the area of adaptation of the entry, the population and maturity range desired. Some entries were placed in more than one area.

Agencies sponsoring entries in the 1983 tests are shown in Table 1.

Table 1. Name and address of sponsoring agencies in the 1983 North Carolina Corn Performance Trials along with designation used to identify the hybrids in the trials.

Name	Address	Hybrid Designation
Agra Tech Seed	Atlanta, GA	GK
Asgrow Seed Company	Kalamazoo, MI	Asgrow
Beam & Beam Farms	Laundale, NC	B & B
Big 'D' Seed Company	Catlyn, IL	Big 'D'
Coker's Pedigreed Seed Co.	Hartsville, SC	Coker
Columbiana Seed Company	Eldred, IL	Golden Harvest
DeKalb-Pfizer Genetics	DeKalb, IL	DeKalb

Table 1. Continued

Name	Address	Hybrid Designation
FCX, Inc.	Raleigh, NC	FCX, Trojan
Funk's Seed International	Bloomington, IL	Funk's
Jacques Seed Company	Prescott, WI	Jacques
McCurdy Seed Company, Inc.	Fremont, IA	McCurdy
N. C. Agric. Expt. Sta.	Raleigh, NC	N. C.
Northrup King Company	Columbus, MS	NK
O's Gold Seed Company	Parkersburg, IA	O's Gold
P-A-G Seeds	Minneapolis, MN	P-A-G
Paymaster Seeds	Plainview, TX	Paymaster
Pioneer Hi-Bred, Inc.	Tipton, IN	Pioneer brand
Premier Hybrids	Indianapolis, IN	Premier
Ring Around Products, Inc.	Montgomery, AL	RA
Speight Seed Farms	Winterville, NC	Speight
Thor-O-Bred	Champaign, IL	Thor-O-Bred
USS Agri. Chemical	Atlanta, GA	USS
Zimmerman Hybrids, Inc.	Evansville, IN	Z

Field Plot Technique: The state is divided into four geographical areas according to soil type, maturity zone and climatic conditions. The various locations are shown in Figure 1. In the Mountains where the acreage of corn is less, one location with five replications was used. Three locations with three replications each, were used in the Piedmont and Tidewater. The Coastal Plain has five locations with three replications at each location. Table 2 lists the cultural practices used; and Table 3 lists the soil tests results

In field design a lattice was used. Each plot consisted of two rows 22 feet long with a 38" or 36" row width. Alley width was five feet.

In 1983 all tests were planted to one and one-half times the recommended populations. Thinning was to: 25,000 plants/acre for early-maturing hybrids, 22,000 plants/acre for medium-maturing hybrids, and 19,000 plants/acre for late-maturing hybrids.

Seasonal Conditions: A cool-wet spring delayed planting and slowed seedling growth noticeably. Several locations had evidence of herbicide damage as a result of cool-wet conditions. Stands were below normal at nearly every location. A severe drought was experienced at several locations causing yields to be substantially lower than normal. The dry weather also set the stage for aflatoxin which was evident in samples taken from Duplin, Halifax, and Lenoir County locations.

Data: Data were collected on yield, moisture, lodging, ear height, and resistance to gray leaf spot. Maize Chlorotic Dwarf Virus and Maize Dwarf Mosaic Virus were not evident to the point that reliable readings could be taken. All plot yields were adjusted to 15.5% moisture. Since moisture content of grain at harvest is a relative index of maturity, moisture percentage was determined for each indivudal plot. Lodging percentage was determined by observing all plants broken below the ear or leaning more than 45 degrees. Ear height was determined by measuring the distance from the ground to the node where the ear is attached to the stalk. Gray leaf spot ratings were on a scale of 0-5 with 0 being no symptoms and 5 being all leaves dry and dead.

Results: Yield and performance data for the early-maturing hybrids in the Tidewater region are shown in Tables 4, 5, and 6. Funk's G-4522 continues to be the yield leader after three years (Table 4) while Pioneer brand 3389 is the two-year leader with an average of 134 bushels per acre. The individual

location table (Table 6) shows that at the Washington County location three hybrids were significantly higher-yielding than the remaining entries while at Pamlico and Chowan County locations, the severe drought reduced yields and created variability in the tests which is reflected in the high L.S.D. or the non-significant L.S.D. and the high C.V.

DeKalb DK-747 was the two and three-year leader in yield for the medium maturing hybrids in the Tidewater (Table 7) while Funk's 6000X and McCurdy 7676 both averaged 119 bushels per acre to lead the medium-maturing hybrids across the Tidewater (Tables 8 and 9) in 1983.

Early-maturing hybrid data for the Coastal Plain are given in Tables 10, 11, and 12 and again Funk's G-4522 is the two as well as the three-year yield leader. An infestation of corn borers (species undetermined) caused a high level of stalk lodging at the Lenoir County location; this coupled with severe drought stress resulted in a poor test which was discarded. Drought stress resulted in highly variable tests in several locations in the Coastal Plain (Table 12). Averaged across locations, Pioneer brand 3389, McCurdy 7676 and Funk's G-4522 were the highest yielders for the early-maturing hybrids.

O's Gold 5291 and Trojan T-1230 both averaged 124 bushels per acre after three years' testing in the Coastal Plain to lead the medium-maturing hybrid group (Table 13). After two years, O's Gold 5291 averaged 117 bushels per acre to lead this group. Even though yields are all obviously reduced at every location in the Coastal Plain due to the drought, yields in Lenoir, Halifax and Duplin Counties were most severely affected (Tables 14 and 15). USS 9001 led in yield across locations with an average of 89 bushels per acre.

Across locations in the Coastal Plain, Jacques JX 247 is the three-year leader and USS 2020 is the two-year yield leader for the late-maturing group (Table 16).

Pioneer brand 3055 led the late-maturing hybrids across locations with an average 83 bushels per acre (Tables 17 and 18).

Across the Piedmont, O's Gold 2570 led the medium-maturing hybrids with an average yield of 74 bushels per acre (Table 19 and 20). Two and three-year averages were not included due to the loss of all tests in 1982.

Performance data for the late-maturing hybrid group in the Piedmont are shown in Tables 20 and 21. Pioneer brand 3184 and DeKalb DK-789 led the group with an average of 69 bushels per acre; although all other entries were not significantly different from these two in yield when averaged across locations.

Data from the Mountain Corn Official Variety Trial for 1983 are shown in Table 23. FCX 905 led the group with an average yield of 177 bushels per acre. Two and three-year averages are not available due to the loss of the test in 1982.

Performance of entries in the gray leaf spot infestation in 1983 are shown in Table 24. DeKalb-Pfizer DK 647 led the group with a yield of 190 bushels per acre while four other hybrids were not significantly different in yield. Lodging was of no consequence in this test. Disease ratings ranged from 0.8 for the inbred NC 250 to a high of 3.4 for Funks G-4522.

Table 2. Cultural practices used on the corn test - 1983.

Area	Fertilizer Lbs/A and Grade	Herbicide Preemergence	Topdressing Lbs N/A	Date of Planting	Date of Harvest	Soil Type
Area I - Mountains						
Haywood County	400 10-20-20	AAtrex Sutan +	165	May 17		Condorus loam
Henderson County	500 5-15-30	Dual, AAtrex		May 18	October 31	Rosman loam
Area II - Piedmont						
Union County	500 8-24-24	AAtrex Eradicane	75	April 22	September 1	
Guilford County	400 10-20-20 Broadcast	AAtrex Dual	160	May 2	September 26	Enon fine sandy loam
Chatham County	350 24-24-11 Broadcast	Sutazine		May 9	September 28	
Area III - Coastal Plain						
Duplin County	80 0-0-60	AAtrex Lasso	150	April 14	September 13	Duplin fine sandy loam
Johnston County	125 0-0-60	AAtrex Lasso	150	April 28	September 9	Norfolk sandy loam

Table 2. (Continued)

Area	Fertilizer Lbs/A and Grade	Herbicide Preemergence	Topdressing Lbs/A	Date of Planting	Date of Harvest	Soil Type
Lenoir County	300 10-20-20 Broadcast	AAtrex Sutan, Lasso		April 28	September 7	Goldsboro loamy sand
Columbus County	400 5-10-30 Broadcast	Bicep		April 14	September 8	
Halifax County	700 0-10-20 Broadcast	AAtrex Lasso	170	April 27	September 15	
Area IV - Tidewater						
Washington County		Lasso AAtrex	200	May 3	September 19	Portsmouth sandy loam
Chowan County	480 3-9-27 Broadcast	AAtrex Lasso	150	April 29	September 20	State fine sandy loam
Pamlico County	60 - P_2O_5 120 - K_2O 160 - NH_3	AAtrex Dual	135	April 13	August 30	

TABLE 3. SOIL TEST RESULTS - 1983.

LOCATION	HM %	W-V	CEC	BS %	Ac	pH	P-I	K-I	Ca %	Mg%	Mn-I	Zn-I	Cu-I
MOUNTAIN AREA													
HAYWOOD	.7	.94	8.2	90	.8	6.4	30	66	66.8	19.4	166	53	166
PIEDMONT AREA													
CHATHAM	.4	.90	6.2	74	1.6	5.5	58	80	48.5	19.1	166	99	33
GUILFORD	.5	1.19	3.4	76	0.8	5.9	64	32	44.6	26.8	166	162	22
UNION	.6	1.06	7.7	95	.4	6.3	70	70	64.7	25.6	166	62	43
COASTAL PLAIN AREA													
COLUMBUS	.9	1.19	4.2	90	.4	6.3	23	40	60.1	25.5	12	27	18
DUPLIN	.6	1.21	4.2	81	.8	6.2	124	64	55.0	18.2	42	105	43
HALIFAX	.6	1.25	3.4	100	.0	6.0	68	66	73.3	17.0	85	61	49
JOHNSTON	.8	1.27	4.2	81	.8	6.1	137	64	54.8	18.6	74	107	27
LENOIR	.7	1.30	3.5	88	.4	5.6	166	68	61.0	18.0	37	200	33
TIDEWATER AREA													
CHOWAN	.5	1.36	3.7	78	.8	6.1	72	68	57.1	12.0	166	41	218
PAMLICO	5.5	.95	9.7	59	4.0	5.2	120	110	39.3	13.7	28	37	42
WASHINGTON	7.5					5.5	87	92					42

TABLE 4. DATA COMBINED OVER LOCATION FOR TIDEWATER FOR EARLY MATURING HYBRIDS.
THREE YEAR AVERAGE - 1981, 1982, 1983

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
FUNK'S G-4522	135	.188	5	41
PREMIER 632	125	.187	4	39
DEKALB-PFIZER T1100	124	.188	4	36
TWO YEAR AVERAGE - 1982, 1983				
PIONEER BRAND 3389	134	.181	2	37
FUNK'S G-4522	132	.180	3	40
O'SGOLD 2570	130	.187	5	46
RA 1404	123	.187	1	37
PREMIER 632	122	.184	4	38
DEKALB-PFIZER T1100	119	.181	5	34
GOLD KIST 695	118	.178	2	40
PREMIER 639-A	118	.190	7	41
MCCURDY 6555	111	.175	4	36

TABLE 5. DATA COMBINED OVER LOCATION FOR TIDEWATER FOR EARLY MATURING HYBRIDS - 1983.

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
PIONEER BRAND 3389	110	.187	1	32
+DEKALB-PFIZER EXP. 365	103	.184	4	35
THOR-O-BRED SX545	102	.188	6	38
JACQUES 8100	102	.195	6	30
THOR-O-BRED SX536	102	.183	2	26
FUNK'S G-4522	101	.195	3	35
NK PX 9527	99	.186	2	35
DEKALB-PFIZER T1100	95	.192	2	25
USS 7001	93	.199	8	36
PREMIER 639-A	93	.209	1	33
O'S GOLD 2570	93	.207	5	39
GOLDEN HARVEST H-2604	92	.201	8	32
P-A-G 967	92	.191	5	34
GOLD KIST 695	92	.186	1	33
JACQUES 7900	91	.193	6	41
PREMIER 632	89	.202	2	32
RA 1404	87	.205	2	28
MCCURDY 6555	87	.184	2	27
FCX 758	85	.190	7	34
PAYMASTER 5990	85	.192	4	30
DEKALB-PFIZER XL-32AA	82	.181	5	32
P-A-G SX275	79	.176	3	31
NK PX 9415	75	.168	10	24
PAYMASTER 2890	74	.173	10	24
+P-A-G EXP. 111571	74	.180	3	28
PIONEER BRAND 3572	73	.183	4	32
COKER 8570	73	.173	7	29
PIONEER BRAND 3707	72	.192	3	31

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 6. INDIVIDUAL LOCATION YIELD DATA FOR TIDEWATER LOCATIONS FOR EARLY MATURING HYBRIDS.

HYBRID	WASHINGTON	PAMLICO	CHOWAN	MEAN
PIONEER BRAND 3389	145**	111**	75*	110**
+DEKALB-PFIZER EXP. 365	133*	101*	74*	103*
THOR-O-BRED SX545	128*	92*	87*	102*
JACQUES 8100	120	98*	88**	102*
THOR-O-BRED SX536	126	100*	80*	102*
FUNK'S G-4522	122	99*	83*	101*
NK PX 9527	118	102*	77*	99*
DEKALB-PFIZER T1100	141*	94*	51*	95
USS 7001	115	91*	75*	93
PREMIER 639-A	113	104*	62*	93
O'S GOLD 2570	107	92*	79*	93
GOLDEN HARVEST H-2604	111	82	85*	92
P-A-G 967	120	85	72*	92
GOLD KIST 695	105	102*	68*	92
JACQUES 7900	98	98*	77*	91
PREMIER 632	104	106*	57*	89
RA 1404	105	93*	65*	87
MCCURDY 6555	110	81	68*	87
FCX 758	122	75	58*	85
PAYMASTER 5990	104	88	62*	85
DEKALB-PFIZER XL-32AA	102	74	70*	82
P-A-G SX275	103	76	58*	79
NK PX 9415	89	85	51*	75
PAYMASTER 2890	84	78	61*	74
+P-A-G EXP. 111571	88	92*	41*	74
PIONEER BRAND 3572	84	81	55*	73
COKER 8570	90	76	53*	73
PIONEER BRAND 3707	88	71	57*	72
B.L.S.D. (K-50)	18	21	NS	15
C.V. (%)	11.3	13.4	28.3	11.3

+Experimentals. Seed of these hybrids may or may not be available in 1984 and may also have a different designation.
*Not significantly different from highest yielder.
**Highest yielder.

TABLE 7. DATA COMBINED OVER LOCATION FOR TIDEWATER FOR MEDIUM MATURING HYBRIDS. THREE YEAR AVERAGE - 1981, 1982, 1983

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
DEKALB-PFIZER DK-747	146	.210	2	48
O'SGOLD 5509	144	.208	4	44
JACQUES JX247	142	.213	3	46
P-A-G 351	135	.189	7	46
DEKALB-PFIZER T1230	134	.210	4	43
USS 2020	134	.199	4	48
MCCURDY 84AA	133	.204	7	46
PREMIER 636	133	.203	5	46
PAYMASTER 8951	131	.204	3	47
FUNK'S G-4733	131	.211	2	42
COKER 21	131	.214	5	45
COKER 22	131	.205	5	47
COKER 19A	126	.197	7	46
DEKALB-PFIZER XL-71	125	.201	4	46
DEKALB-PFIZER XL-72B	119	.198	5	42
PIONEER BRAND 3382	118	.192	2	41
PIONEER BRAND 3184	117	.207	3	40
PIONEER BRAND 3320	115	.206	2	44
TWO YEAR AVERAGE - 1982, 1983				
DEKALB-PFIZER DK-747	143	.204	2	45
MCCURDY 7676	140	.180	6	48
RA 1604	138	.206	4	42
JACQUES JX247	137	.208	3	46
O'SGOLD 5509	136	.202	3	43
USS 2020	134	.199	4	48
GOLD KIST 925	133	.195	2	45
P-A-G 351	131	.177	7	45
MCCURDY 84AA	129	.198	7	47
COKER 22	129	.198	3	46
DEKALB-PFIZER T1230	128	.204	4	41
PAYMASTER 8951	126	.196	4	46
COKER 21	126	.207	4	43
GOLDEN HARVEST H-2680	126	.200	3	40
PREMIER 636	126	.197	3	45
FUNK'S G-4733	126	.207	1	40
RA 1502	123	.190	2	41
COKER 19A	121	.186	5	45
PIONEER BRAND 3358	117	.187	0	42
DEKALB-PFIZER XL-71	116	.191	5	45
PIONEER BRAND 3382	115	.180	2	40
PIONEER BRAND 3320	115	.200	1	43
DEKALB-PFIZER XL-72B	109	.192	2	40
PIONEER BRAND 3184	107	.198	1	40

TABLE 8. DATA COMBINED OVER LOCATION FOR TIDEWATER FOR MEDIUM MATURING HYBRIDS - 1983.

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
+FUNK'S 6000X	119	.210	3	45
MCCURDY 7676	119	.190	8	43
MCCURDY 8172	116	.218	4	42
P-A-G SX379	116	.228	5	42
USS 9001	115	.223	1	33
JACQUES JX247	114	.238	3	43
+NC 31	114	.216	4	44
FCX 905	113	.224	4	40
DEKALB-PFIZER DK 747	113	.228	2	41
THOR-O-BRED SX660	111	.220	3	44
ASGROW RX777	110	.200	4	38
MCCURDY 7384	110	.189	6	42
MCCURDY 84AA	108	.217	8	42
+NC 34	107	.232	6	37
USS 2020	107	.219	6	45
JACQUES 8400	106	.205	2	39
O'S GOLD 5509	106	.225	3	35
MCCURDY 7800	106	.224	4	42
RA 1604	106	.239	4	33
PAYMASTER 8990	105	.238	4	42
PAYMASTER 8951	105	.214	2	41
P-A-G SX354	105	.221	0	40
P-A-G SX351	104	.187	7	40
GOLD KIST 925	103	.216	2	39
COKER 19A	103	.204	5	41
PREMIER 636	102	.216	4	41
PIONEER BRAND 3358	102	.201	1	38
NK PX 9581	101	.230	2	36
FUNK'S G-4733	101	.233	1	34
DEKALB-PFIZER XL-72B	100	.205	2	39
GOLDEN HARVEST H-2680	100	.215	3	35
COKER 21	99	.236	4	40
COKER 22	99	.218	3	43
PIONEER BRAND 3192	99	.224	2	32
RA 1502	98	.207	3	36
DEKALB-PFIZER T1230	98	.227	3	34
PIONEER BRAND 3382	97	.191	1	36
+RAX 9505C	90	.204	3	39
GOLDEN HARVEST H-2675	90	.212	5	38
PIONEER BRAND 3184	89	.212	2	37
PIONEER BRAND 3320	85	.222	1	38
DEKALB-PFIZER XL 71	84	.207	8	40

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 9. INDIVIDUAL LOCATION YIELD DATA FOR TIDEWATER LOCATIONS FOR MEDIUM MATURING HYBRIDS.

HYBRID	WASHINGTON	PAMLICO	CHOWAN	MEAN
+FUNK'S 6000X	148*	97*	113*	119**
MCCURDY 7676	144*	99*	114*	119**
MCCURDY 8172	149*	97*	103*	116*
P-A-G SX379	141*	84	122**	116*
USS 9001	144*	102*	99*	115*
JACQUES JX247	128*	99*	115*	114*
+NC 31	140*	105**	97*	114*
FCX 905	137*	91*	112*	113*
DEKALB-PFIZER DK 747	134*	92*	111*	113*
THOR-O-BRED SX660	129*	82	122**	111*
ASGROW RX777	127*	92*	111*	110*
MCCURDY 7384	136*	85	108*	110*
MCCURDY 84AA	136*	78	110*	108*
+NC 34	127*	99*	95*	107*
USS 2020	133*	68	120*	107*
JACQUES 8400	136*	100*	83*	106*
O'S GOLD 5509	150**	71	97*	106*
MCCURDY 7800	132*	97*	88*	106*
RA 1604	135*	68	114*	106*
PAYMASTER 8990	125	105**	87*	105*
PAYMASTER 8951	135*	97*	83*	105*
P-A-G SX354	119	100*	95*	105*
P-A-G SX351	145*	82	85*	104*
GOLD KIST 925	134*	82	91*	103*
COKER 19A	119	84	105*	103*
PREMIER 636	118	94*	95*	102*
PIONEER BRAND 3358	124	77	103*	102*
NK PX 9581	125	101*	78*	101*
FUNK'S G-4733	128*	82	94*	101*
DEKALB-PFIZER XL-72B	113	90*	99*	100*
GOLDEN HARVEST H-2680	126*	74	100*	100*
COKER 21	123	74	101*	99*
COKER 22	119	71	107*	99*
PIONEER BRAND 3192	128*	83	86*	99*
RA 1502	114	81	100*	98*
DEKALB-PFIZER T1230	129*	68	96*	98*
PIONEER BRAND 3382	106	98*	86*	97*
+RAX 9505C	110	79	82*	90
GOLDEN HARVEST H-2675	95	70	106*	90
PIONEER BRAND 3184	114	65	89*	89
PIONEER BRAND 3320	87	74	95*	85
DEKALB-PFIZER XL 71	121	71	61*	84
B.L.S.D. (K-50)	25	20	NS	25
C.V. (%)	11.9	14.8	18.9	11.5

+Experimentals. Seed of these hybrids may or may not be available in 1984 and may also have a different designation.
*Not significantly different from highest yielder.
**Highest yielder.

TABLE 10. DATA COMBINED OVER LOCATION FOR COASTAL PLAIN FOR EARLY MATURING HYBRIDS.
THREE YEAR AVERAGE - 1981, 1982, 1983

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
FUNK'S G-4522	129	.161	6	47
DEKALB-PFIZER T1100	117	.154	2	41
TWO YEAR AVERAGE - 1982, 1983				
FUNK'S G-4522	124	.154	4	46
P-A-G 967	123	.146	4	45
PIONEER BRAND 3389	122	.151	2	43
O'SGOLD 6882	116	.145	1	41
GOLDKIST 695	115	.148	1	41
PREMIER 639-A	115	.158	5	46
DEKALB-PFIZER T1100	114	.147	2	39

TABLE 11. DATA COMBINED OVER LOCATION FOR COASTAL PLAIN FOR EARLY MATURING HYBRIDS - 1983.

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
PIONEER BRAND 3389	100	.153	2	42
MCCURDY 7676	98	.160	7	42
FUNK'S G-4522	97	.160	6	43
MCCURDY 7384	88	.145	4	48
ASGROW RX777	87	.165	4	41
JACQUES 7900	87	.154	3	50
THOR-O-BRED SX536	87	.150	2	38
USS 7001	87	.159	3	47
+DEKALB-PFIZER EXP. 365	86	.143	4	45
+ASGROW EXP. 2372	85	.171	2	47
PREMIER 639-A	85	.168	7	45
FCX 748	82	.153	7	45
GOLD KIST 695	81	.152	2	41
FCX 758	80	.161	5	43
P-A-G 967	79	.149	4	42
DEKALB-PFIZER T1100	79	.150	3	36
PAYMASTER 5990	79	.148	3	43
NK PX 9527	78	.148	2	40
COKER 8570	77	.144	3	43
NK PX 9415	74	.146	5	39
DEKALB-PFIZER XL32AA	74	.144	4	46
PIONEER BRAND 3382	73	.152	6	41
O'S GOLD 6882	72	.148	1	36
P-A-G SX275	64	.147	1	40

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 12. INDIVIDUAL LOCATION YIELD DATA FOR COASTAL PLAIN LOCATIONS FOR EARLY MATURING HYBRIDS.

HYBRID	HALIFAX†	DUPLIN	COLUMBUS	JOHNSTON	MEAN
PIONEER BRAND 3389	37**	98*	127*	136*	100**
MCCURDY 7676	24*	102**	121*	146*	98*
FUNK'S G-4522	24*	90*	126*	146*	97*
MCCURDY 7384	17*	82	123*	129*	88
ASGROW RX777	15*	69	122*	142*	87
JACQUES 7900	21*	64	116*	147**	87
THOR-O-BRED SX536	26*	65	124*	133*	87
USS 7001	21*	68	118*	140*	87
+DEKALB-PFIZER EXP. 365	15*	64	126*	140*	86
+ASGROW EXP. 2372	16*	65	112*	145*	85
PREMIER 639-A	12*	71	129**	126*	85
FCX 748	14*	71	113*	129*	82
GOLD KIST 695	18*	56	123*	128*	81
FCX 758	16*	58	108*	136*	80
P-A-G 967	14*	70	109*	125	79
DEKALB-PFIZER T1100	20*	64	110*	123	79
PAYMASTER 5990	14*	75	119*	108	79
NK PX 9527	17*	67	104*	124	78
COKER 8570	15*	62	116*	116	77
NK PX 9415	19*	67	92	120	74
DEKALB XL32AA	18*	58	100	120	74
PIONEER BRAND 3382	15*	61	105*	112	73
O'S GOLD 6882	24*	59	100	105	72
P-A-G SX275	22*	53	85	97	64
B.L.S.D. (K-50)	NS	16	27	22	11
C.V. (%)	40.4	15.0	12.7	10.2	10.7

+Experimentals. Seed of these hybrids may or may not be available for 1984 and may also have a different designation.
*Not significantly different from highest yielder.
**Highest yielder.
†Suffered severe drought stress.

TABLE 13. DATA COMBINED OVER LOCATION FOR COASTAL PLAIN FOR MEDIUM MATURING HYBRIDS.
THREE YEAR AVERAGE - 1981, 1982, 1983

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
O'SGOLD 5291	124	.171	5	46
DEKALB-PFIZER T1230	124	.173	6	47
MCCURDY 84AA	123	.171	5	47
NK PX 87	120	.173	4	48
PREMIER 636	119	.174	5	50
COKER 19A	119	.171	5	50
COKER 21	118	.177	4	48
FUNK'S G-4733	118	.181	3	47
GOLDEN HARVEST H-2775A	116	.178	10	49
DEKALB-PFIZER XL71	112	.168	5	44
DEKALB-PFIZER XL72B	110	.168	3	43
PIONEER BRAND 3320	109	.164	4	43
COKER 22	105	.178	4	45
TWO YEAR AVERAGE - 1982, 1983				
O'SGOLD 5291	117	.163	3	45
GOLDEN HARVEST H-2680	114	.169	3	43
MCCURDY 84AA	114	.161	4	45
DEKALB-PFIZER T1230	114	.166	3	45
RA 1502	113	.162	2	46
JACQUES 8400	113	.163	6	45
PREMIER 636	113	.170	2	49
NK PX 87	111	.166	2	46
COKER 19A	111	.165	3	49
RA 1604	109	.171	1	43
FUNK'S G-4733	108	.176	3	45
GOLDEN HARVEST H-2775A	107	.173	6	47
COKER 21	106	.171	3	46
SPEIGHT D-37	104	.177	2	44
DEKALB-PFIZER XL71	102	.163	2	41
PIONEER BRAND 3320	100	.158	2	40
DEKALB-PFIZER XL72B	98	.164	1	39
SPEIGHT D-35	97	.171	3	43
COKER 22	96	.173	2	41
PIONEER BRAND 3358	95	.157	1	45

TABLE 14. DATA COMBINED OVER LOCATION FOR COASTAL PLAIN FOR MEDIUM MATURING HYBRIDS - 1983.

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
USS 9001	89	.182	1	41
O'S GOLD 5291	86	.171	3	43
MCCURDY 8172	86	.184	5	47
JACQUES 8400	84	.171	8	45
RA 1502	83	.171	3	45
NK PX9581	83	.185	4	42
PAYMASTER 8990	82	.188	5	53
P-A-G SX354	81	.176	4	42
DEKALB-PFIZER T1230	81	.174	2	42
COKER 19A	80	.177	4	50
P-A-G SX351	80	.157	3	47
DEKALB-PFIZER XL72B	80	.175	1	39
MCCURDY 8155	80	.181	5	48
+NC 31	79	.178	6	47
NK PX87	79	.174	3	45
THOR-O-BRED SX660	79	.178	3	40
PAYMASTER 8951	78	.177	6	43
+RAX 9505C	78	.173	4	42
+FUNK'S 6000X	77	.174	7	46
MCCURDY 84AA	76	.171	5	42
GOLDEN HARVEST H-2680	76	.180	3	41
GOLDEN HARVEST H-2775A	76	.188	7	46
PIONEER BRAND 3192	76	.169	5	43
FUNK'S G-4734	76	.177	3	48
FCX 905	76	.197	3	41
PIONEER BRAND 3184	75	.182	3	43
+NC 34	75	.181	4	37
FCX 808	75	.169	5	41
PREMIER 636	75	.187	3	46
FUNK'S G-4733	74	.193	4	41
P-A-G SX379	73	.184	2	45
ASGROW RX114	73	.174	7	42
PIONEER BRAND 3320	72	.166	3	37
DEKALB-PFIZER XL71	72	.174	3	37
PIONEER BRAND 519 (W)	71	.177	14	48
COKER 21	71	.183	2	43
GOLD KIST 925	71	.171	6	41
BIG 'D' 6986	70	.192	2	47
SPEIGHT D-35	70	.187	4	42
FCX 848	70	.179	4	50
+NC 32	69	.184	2	39
RA 1604	68	.186	2	41
SPEIGHT D-37	65	.195	2	42
SPEIGHT D-33	65	.184	5	48
PIONEER BRAND 3358	65	.163	2	44
COKER 22	62	.189	3	37

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 15. INDIVIDUAL LOCATION YIELD DATA FOR COASTAL PLAIN LOCATIONS FOR MEDIUM MATURING HYBRIDS.

HYBRID	LENOIR†	HALIFAX†	DUPLIN	COLUMBUS	JOHNSTON	MEAN
USS 9001	43*	35*	98**	125*	145*	89**
O'S GOLD 5291	49*	34*	88*	113*	144*	86*
MCCURDY 8172	62**	36*	91*	104	134	86*
JACQUES 8400	34	28*	89*	130**	141*	84*
RA 1502	54*	27*	70	112*	155**	83*
NK PX9581	50*	36*	85*	106	137	83*
PAYMASTER 8990	37	25*	90*	115*	144*	82*
P-A-G SX354	54*	26*	81*	104	141*	81*
DEKALB-PFIZER T1230	30	33*	89*	104	145*	81*
COKER 19A	36	28*	78	124*	136	80*
P-A-G SX351	39*	24*	88*	107	144*	80*
DEKALB-PFIZER XL72B	57*	24*	76	108*	136	80*
MCCURDY 8155	40*	33*	75	110*	141*	80*
+NC 31	31	26*	82*	121*	136	79*
NK PX87	34	30*	79	110*	142*	79*
THOR-O-BRED SX660	45*	32*	66	110*	143*	79*
PAYMASTER 8951	34	22*	66	116*	153*	78
+RAX 9505C	41*	24*	75	112*	137	78
+FUNK'S 6000X	23	28*	83*	104	145*	77
MCCURDY 84AA	42*	23*	65	112*	140	76
GOLDEN HARVEST H-2680	37	30*	71	105	138	76
GOLDEN HARVEST H-2775A	52*	31*	60	113*	124	76
PIONEER BRAND 3192	43*	19	71	115*	131	76
FUNK'S G-4734	38*	27*	95*	99	119	76
FCX 905	29	26*	71	107	145*	76
PIONEER BRAND 3184	26	33*	70	105	143*	75
+NC 34	38*	33*	65	104	136	75
FCX 808	35	31*	71	104	135	75
PREMIER 636	40*	25*	77	110*	123	75
FUNK'S G-4733	36	26*	76	110*	121	74
P-A-G SX379	29	15	77	113*	133	73
ASGROW RX114	43*	26*	57	105	133	73
PIONEER BRAND 3320	41*	38**	54	100	125	72
DEKALB-PFIZER XL71	36	34*	50	111*	126	72
PIONEER BRAND 519 (W)	41*	36*	66	101	111	71
COKER 21	24	19	64	113*	134	71
GOLD KIST 925	24	31*	73	96	129	71
BIG 'D' 6986	34	24*	70	96	128	70
SPEIGHT D-35	45*	23*	64	98	118	70
FCX 848	37	21	43	104	144*	70
+NC 32	33	24*	54	105	131	69
RA 1604	31	27*	61	81	141*	68
SPEIGHT D-37	38*	31*	58	82	113	65
SPEIGHT D-33	40*	26*	59	89	110	65
PIONEER BRAND 3358	29	26*	48	94	126	65
COKER 22	28	29*	56	81	118	62
B.L.S.D. (K-50)	25	17	18	23	15	11
C.V. (%)	31.3	28.0	17.3	11.8	7.6	11.4

+Experimentals. Seed of these hybrids may or may not be available in 1984 and may also have a different designation.
*Not significantly different from highest yielder.
**Highest yielder.
†Suffered severe drought stress.

TABLE 16. DATA COMBINED OVER LOCATION FOR COASTAL PLAIN FOR LATE MATURING HYBRIDS.
THREE YEAR AVERAGE - 1981, 1982, 1983

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
JACQUES JX247	124	.175	6	52
DEKALB-PFIZER DK-747	121	.176	3	54
USS 2020	120	.165	1	48
PIONEER BRAND 3160	116	.176	6	50
NK PX 95	110	.178	8	52
COKER 77B	106	.197	7	56
TWO YEAR AVERAGE - 1982, 1983				
USS 2020	120	.165	1	48
JACQUES JX247	117	.166	3	51
DEKALB-PFIZER DK-747	117	.169	1	51
PIONEER BRAND 3165	117	.163	2	45
PIONEER BRAND 3160	112	.169	3	47
NK PX 95	104	.168	5	50
COKER 77B	100	.188	4	53

TABLE 17. DATA COMBINED OVER LOCATION FOR COASTAL PLAIN FOR LATE MATURING HYBRIDS - 1983.

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
PIONEER BRAND 3055	83	.208	2	47
PIONEER BRAND 3165	82	.178	4	44
USS 2020	80	.182	2	48
PIONEER BRAND 3160	76	.185	7	47
DEKALB-PFIZER DK 789	75	.192	1	47
JACQUES JX247	74	.181	7	49
NK PX9692	74	.196	6	51
DEKALB-PFIZER DK 747	73	.191	5	49
NK PX95	71	.183	7	47
+P-A-G EXP. 90015	69	.228	1	49
COKER 77B	63	.217	7	51

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 18. INDIVIDUAL LOCATION YIELD DATA FOR COASTAL PLAIN LOCATIONS FOR LATE MATURING HYBRIDS.

HYBRID	LENOIR†	HALIFAX†	DUPLIN	COLUMBUS	JOHNSTON	ME
PIONEER BRAND 3055	50*	40**	93**	102*	132*	8
PIONEER BRAND 3165	50*	39*	84*	110*	128*	8
USS 2020	37	35*	78*	107*	141**	8
PIONEER BRAND 3160	42*	39*	83*	92*	124*	7
DEKALB-PFIZER DK 789	35	23*	72*	119**	128*	7
JACQUES JX247	35	24*	76*	98*	137*	7
NK PX9692	52**	21*	82*	91*	123*	7
DEKALB-PFIZER DK 747	31	24*	72*	98*	138*	7
NK PX95	37	38*	72*	86*	123*	7
+P-A-G EXP. 90015	32	33*	79*	100*	100*	6
COKER 77B	20	24*	83*	69*	120*	6
B.L.S.D. (K-50)	14	NS	NS	NS	NS	1
C.V. (%)	23.2	38.1	23.4	17.0	11.6	1

+Experimentals. Seed of these hybrids may or may not be available in 1984 and may also have a different designation.
*Not significantly different from highest yielder.
**Highest yielder.
†Suffered severe drought stress.

TABLE 19. DATA COMBINED OVER LOCATION FOR PIEDMONT FOR MEDIUM MATURING HYBRIDS - 1983.

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
O'S GOLD 2570	74	.192	16	49
JACQUES 8400	73	.211	8	48
USS 7001	70	.179	13	48
PIONEER BRAND 3389	69	.195	4	47
PIONEER BRAND 3358	69	.194	2	48
PIONEER BRAND 3369A	68	.194	8	52
P-A-G 967	67	.185	8	43
PIONEER BRAND 3328	66	.217	5	47
FUNK'S G-4522	66	.182	7	45
P-A-G SX354	64	.199	6	49
PIONEER BRAND 3320	63	.198	8	51
ASGROW RX777	62	.198	8	51
MCCURDY 84AA	62	.216	7	49
NK PX79	62	.186	6	49
DEKALB-PFIZER XL71	62	.202	11	42
PAYMASTER 8951	61	.214	10	50
FCX 717	61	.190	6	46
PIONEER BRAND 3233	60	.179	4	53
PIONEER BRAND 3187	59	.210	6	50
COKER 19A	58	.203	15	47
+RAX 9505C	56	.206	10	45
Z 23	56	.206	11	50
RA 1604	55	.221	6	48
O'S GOLD 6882	54	.187	5	42
NK PX9527	54	.179	4	44
COKER 16	54	.201	6	45
USS 9001	53	.215	6	43
COKER 21	53	.215	7	50
P-A-G SX351	52	.196	7	45
RA 1502	52	.192	7	50
+DEKALB-PFIZER EXP. 370	52	.201	7	50
THOR-O-BRED SX660	51	.205	9	46
FUNK'S G-4734	51	.225	11	51
P-A-G SX379	50	.221	9	48
FCX 848	50	.210	5	52
COKER 22	49	.215	7	49
DEKALB-PFIZER XL72B	49	.195	5	42
FUNK'S G-4733	47	.229	9	48
Z 26	47	.217	3	47
FCX 758	46	.201	10	47
PAYMASTER 8990	46	.225	9	53
+B & B X 100	34	.196	15	41

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 20. INDIVIDUAL LOCATION YIELD DATA FOR PIEDMONT LOCATIONS FOR MEDIUM MATURING HYBRIDS.

HYBRID	UNION	GUILFORD	CHATHAM	MEAN
O'S GOLD 2570	53*	94**	74	74**
JACQUES 8400	59*	84*	77	73*
USS 7001	57*	88*	65	70*
PIONEER BRAND 3389	47	69*	92**	69*
PIONEER BRAND 3358	48	86*	71	69*
PIONEER BRAND 3369A	45	80*	79*	68*
P-A-G 967	65**	69*	68	67*
PIONEER BRAND 3328	36	88*	73	66*
FUNK'S G-4522	48	82*	68	66*
P-A-G SX354	47	86*	60	64*
PIONEER BRAND 3320	44	80*	66	63*
ASGROW RX777	47	89*	51	62*
MCCURDY 84AA	46	87*	53	62*
NK PX79	40	92*	53	62*
DEKALB-PFIZER XL71	58*	72*	55	62*
PAYMASTER 8951	44	78*	62	61*
FCX 717	51*	68*	64	61*
PIONEER BRAND 3233	43	73*	63	60*
PIONEER BRAND 3187	44	84*	48	59*
COKER 19A	41	77*	55	58*
+RAX 9505C	57*	45	67	56*
Z 23	42	76*	49	56*
RA 1604	32	72*	62	55
O'S GOLD 6882	31	74*	58	54
NK PX9527	46	65*	52	54
COKER 16	39	54	68	54
USS 9001	35	67*	58	53
COKER 21	42	48	70	53
P-A-G SX351	46	60	50	52
RA 1502	30	74*	52	52
+DEKALB-PFIZER EXP. 370	28	64*	62	52
THOR-O-BRED SX660	47	59	49	51
FUNK'S G-4734	39	54	59	51
P-A-G SX379	39	55	55	50
FCX 848	25	67*	57	50
COKER 22	43	55	50	49
DEKALB-PFIZER XL72B	34	49	63	49
FUNK'S G-4733	36	52	54	47
Z 26	24	62*	55	47
FCX 758	40	48	50	46
PAYMASTER 8990	38	32	67	46
+B & B X 100	37	27	38	34
B.L.S.D. (K-50)	16	33	14	19
C.V. (%)	23.9	27.6	15.5	18.6

+Experimentals. Seed of these hybrids may or may not be available in 1984 and may also have a different designation.
*Not significantly different from highest yielder.
**Highest yielder.

TABLE 21. DATA COMBINED OVER LOCATION FOR PIEDMONT FOR LATE MATURING HYBRIDS - 1983.

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
PIONEER BRAND 3184	69	.235	5	47
DEKALB-PFIZER DK-789	69	.236	4	51
NK PX9692	66	.239	6	56
USS 2020	65	.234	7	54
PIONEER BRAND 3165	64	.234	9	51
JACQUES JX247	63	.231	7	56
PIONEER BRAND 3192	63	.222	7	47
PIONEER BRAND 3147	62	.225	10	59
Z 52 (W)	59	.236	14	63
FUNK'S G-4740A	58	.224	4	49
FCX 929 (W)	56	.241	11	54
DEKALB-PFIZER DK-747	55	.230	5	60
FCX 905	55	.239	9	52
NK PX95	49	.232	13	61
Z 11 (W)	48	.239	16	65
Z 53 (W)	46	.250	11	49

TABLE 22. INDIVIDUAL LOCATION YIELD DATA FOR PIEDMONT LOCATIONS FOR LATE MATURING HYBRIDS.

HYBRID	UNION	GUILFORD	CHATHAM	MEAN
PIONEER BRAND 3184	57*	77*	72*	69**
DEKALB-PFIZER DK-789	31	89*	86**	69**
NK PX9692	40	91*	68 *	66*
USS 2020	41	83*	71*	65*
PIONEER BRAND 3165	82*	58*	52*	64*
JACQUES JX247	53	81*	57*	63*
PIONEER BRAND 3192	46	66*	78*	63*
PIONEER BRAND 3147	30	93**	63*	62*
Z 52 (W)	39	71*	66*	59*
FUNK'S G-4740A	38	75*	61*	58*
FCX 929 (W)	42	69*	58*	56*
DEKALB-PFIZER DK-747	36	62*	69*	55*
FCX 905	44	43	79*	55*
NK PX95	32	42	73*	49*
Z 11 (W)	43	36	66*	48*
Z 53 (W)	33	47	59*	46*
B.L.S.D. (K-50)	26	34	NS	NS
C.V. (%)	35.0	29.5	18.0	24.7

*Not significantly different from highest yielder.
**Highest yielder.

TABLE 23. DATA FOR MOUNTAINS

FOR MEDIUM MATURING HYBRIDS - 1983.

HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN
FCX 905	177**	.225	5	59
THOR-O-BRED SX660	171*	.227	7	59
PAYMASTER 8951	170*	.226	6	60
NK PX9581	169*	.221	2	55
PIONEER BRAND 3187	169*	.212	3	58
JACQUES JX247	168*	.227	5	56
MCCURDY 7800	167*	.212	4	57
JACQUES 8400	166*	.219	9	59
DEKALB-PFIZER DK 789	166*	.224	0	56
PIONEER BRAND 3184	165*	.228	0	57
DEKALB-PFIZER DK 747	165*	.217	0	63
PIONEER BRAND 3358	161*	.203	0	58
MCCURDY 81-82	160*	.214	9	61
PIONEER BRAND 3147	160*	.233	9	62
MCCURDY 84AA	160*	.228	5	62
FUNK'S G-4522	160*	.213	4	58
PIONEER BRAND 3233	159*	.205	0	57
MCCURDY 7676	159*	.206	6	62
DEKALB-PFIZER XL71	158*	.218	8	54
DEKALB-PFIZER XL72B	158*	.210	0	53
Z 26	158*	.232	4	55
Z 23	157*	.226	9	60
FUNK'S G-4733	153	.205	10	61
NK PX79	152	.200	4	63
FCX 848	150	.212	8	62
FCX 758	149	.216	14	58
MCCURDY 7384	148	.201	6	63
PIONEER BRAND 3192	146	.225	0	61
COKER 16	146	.222	3	52
NK PX9527	142	.219	3	52
B.L.S.D. (K-50)	24			
C.V. (%)	10			

*Not significantly different from highest yielder.
**Highest yielder in test.

TABLE 24. PERFORMANCE OF CORN HYBRIDS UNDER GRAY LEAF SPOT INFESTATION HENDERSON COUNTY - 1983.

HYBRID	YIELD BU/A	LODGING %	MOISTURE	DISEASE[1/] RATING
DEKALB-PFIZER DK-747	190**	0.0	.316	1.7
DEKALB-PFIZER DK-789	160	0.0	.299	0.9
DEKALB-PFIZER XL-72B	165	0.0	.263	2.1
FUNK'S G-4522	158	0.9	.256	3.4
FUNK'S G-4733	176*	0.9	.267	3.2
FUNK'S G-4734	167	3.4	.274	3.0
+NC 250	--	0.0	.264	0.8
NK PX79	158	0.9	.254	2.0
NK PX95	173	2.0	.292	1.1
PAYMASTER 8951	180*	0.9	.269	2.3
PIONEER BRAND 3192	189*	0.0	.295	1.6
PIONEER BRAND 3233	175*	0.3	.256	1.3
PIONEER BRAND 3572	146	0.3	.219	2.3
PREMIER 639-A	167	3.4	.274	2.2
BLSD (K-50)	17			
C.V. (%)	10.4			

[1/]THE DISEASE RATING SCALE USED IS AS FOLLOWS: 0 = NO SYMPTOMS; 1 = TRACE OF LESIONS BELOW THE EAR, NONE ABOVE; 2 = MANY LESIONS BELOW THE EAR, TRACE ABOVE; 3 = SEVER LESION DEVELOPMENT BELOW EAR, ALL LEAVES ABOVE EAR WITH LESIONS; 4 = ALL LEAVES WITH SEVERE LESION DEVELOPMENT, BUT GREEN TISSUE VISIBLE; 5 = ALL LEAVES DRY AND DEAD.

**HIGHEST YIELDER.

*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

+INBRED.

CORN SILAGE

Silage is an important part of the beef and dairy cattle industry in North Carolina, particularly in the Piedmont and Mountain regions.

This report presents the results of the North Carolina Official Corn Silage trials for the 1983 season.

Entries: Any individual or firm may make application for having hybrids tested. Personnel of the testing program may also include entries about which further information is desired.

Early in January each year, rules governing the tests for the ensuing year are distributed to all previous participants and to those who make inquiry.

Agencies sponsoring entries in the 1983 tests are shown in Table 25.

Table 25. Name of sponsoring agencies in the 1983 North Carolina Corn Silage Performance Trials along with designation used to identify the hybrids in the trials.

Name	Hybrid Designation
Asgrow Seed Company	Asgrow
Beam and Beam Farms	B & B
Coker's Pedigreed Seed Company	Coker
DeKalb-Pfizer Genetics	DeKalb
FCX, Inc.	FCX
Funk's Seed International	Funk's
Northrup King	NK
P-A-G Seeds	P-A-G
Pioneer Hi-Bred, Inc.	Pioneer brand
Ring Around Products, Inc.	RA
Zimmerman Hybrids, Inc.	Z

Field Plot Technique: Two tests were located in the Piedmont; one in Rockingham County on a river bottom and one in Rowan County on an upland soil.

Plots consisted of three rows with the center row harvested. Four replications were planted in a randomized, complete block design. Plots were 22 feet long with five foot alleys.

All plots were planted to a stand with a 115% seeding rate of the desired stand.

Table 26 lists the cultural practices used; Table 27 lists soil test results

Table 26. Cultural practices used on the corn silage tests - 1983.

Location and Cooperator	Fertilizer lbs/A and Grade	Topdressing lbs N/A	Herbicide	Date of Planting	Date of Harvest
Rockingham County Scott Shoulars	200 0-45-60	150 30%	AAtrex Princep	May 11	August 26
Rowan County Billy Ayscue	500 10-20-20	100 30%	AAtrex Princep	May 5	August 25

Seasonal Conditions: A wet, cool spring delayed planting at both locations. Normal to near-normal rainfall continued through June as seen in the following table while both experienced severe drought in July and August up to time of harvest.

	Rainfall Data (Inches)			
Location	May	June	July	August
Rockingham County	2.45	2.11	0.77	1.00
Rowan County	3.16	4.13	0.79	0.73

Data: Data were collected on percent dry matter at harvest, dry matter yield, silage yield, percent crude protein, percent acid detergent fiber, and percent total digestible nutrients.

TABLE 27. SOIL TEST RESULTS.

LOCATION	HM %	W-V	CEC	BS %	AC	PH	P-I	K-I	CA %	MG %	MN-I	ZN-I	CU-I
ROCKINGHAM	.2	1.06	5.9	80	1.2	5.9	11	72	55.7	17.9	166	25	71
ROWAN	.6	1.13	6.0	87	.8	6.7	18	42	55.1	28.0	166	107	96

Stand counts were taken and the average plant population for each hybrid is given in Table 28 along with the desired stand.

Results: Individual location data are shown in Tables 29 and 30. State average is shown in Table 31. Silage and dry matter yields were obviously reduced by the drought. Yields were slightly higher on the river bottom in Rockingham County than on the upland in Rowan County.

Quality analyses revealed considerable differences between locations. Percent crude protein and acid detergent fiber were higher at Rowan County than at Rockingham County while percent total digestible nutrients was higher at the Rockingham location.

A more accurate picture of true performance is shown in Table 32 where data are combined across locations for the past two years. The early maturing hybrid, Pioneer brand 3389, was the highest silage yielder at 20 tons per acre followed closely by four other hybrids.

TABLE 28. AVERAGE PLANT POPULATION OF CORN SILAGE HYBRIDS - 1983.

HYBRID	PLANTS/ACRE	HYBRID	PLANT/ACRE
ASGROW RX450A	21,659 (22,000)[1/]	+P-A-G 90015	24,708 (26,000)
+B + B X 400	21,346 (22,000)	PIONEER BRAND 3055	27,992 (27,000)
COKER 22	23,457 (24,000)	PIONEER BRAND 3147	28,774 (26,000)
COKER 56	19,548 (29,000)	PIONEER BRAND 3160	27,288 (27,000)
DEKALB DK-747	28,227 (26,000)	PIONEER BRAND 3165	29,008 (27,000)
DEKALB DK-789	25,881 (26,000)	PIONEER BRAND 3187	28,461 (26,000)
DEKALB XL-32AA	24,239 (26,000)	PIONEER BRAND 3389	29,947 (27,000)
FCX 717	23,926 (24,000)	RA 1505	22,362 (22,000)
FCX 848	21,737 (23,000)	RA 1604	23,144 (22,000)
FCX 929(W)	19,938 (21,000)	TROJAN T1100	27,679 (26,000)
FUNK'S G-4734	22,831 (22,000)	TROJAN T1230	27,757 (26,000)
+FUNK'S 8006X	21,111 (19,000)	Z 52(W)	18,375 (20,000)
NK PX79	26,115 (28,000)		

[1/] NUMBER IN PARENTHESIS INDICATES DESIRED PLANT POPULATION.
+EXPERIMENTAL. SEED OF THIS HYBRID MAY OR MAY NOT BE AVAILABLE NEXT YEAR AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 29. PERFORMANCE OF CORN SILAGE HYBRIDS AT ROCKINGHAM COUNTY - 1983.

HYBRID	DRY MATTER TONS/ACRE	SILAGE YIELD TONS/ACRE	% DRY MATTER AT HARVEST	CRUDE PROTEIN %	A.D. FIBER %	TDN %
ASGROW RX450A	5	14	36	8.2	25	72
+B + B X 400	4	11	39	8.1	24	74
COKER 22	4	12	33	7.6	23	74
COKER 56	4	12	38	7.5	25	73
DEKALB DK-747	5	13	29	6.9	24	74
DEKALB DK-789	4	12	33	6.8	24	73
DEKALB XL-32AA	5	13	38	7.4	24	73
FCX 717	4	12	37	7.3	26	72
FCX 848	3	10	28	7.7	22	75
FCX 929(W)	4	11	33	7.5	25	73
FUNK'S G-4734	6	16*	39	7.6	23	74
+FUNK'S 8006X	5	14	38	8.6	23	74
NK PX79	5	13	32	7.6	24	73
+P-A-G 90015	5	15*	30	8.3	25	72
PIONEER BRAND 3055	4	12	28	8.1	27	71
PIONEER BRAND 3147	5	15*	36	7.3	25	73
PIONEER BRAND 3160	6	16*	37	8.2	23	74
PIONEER BRAND 3165	6	17**	38	7.6	23	74
PIONEER BRAND 3187	5	14	35	7.1	23	75
PIONEER BRAND 3389	6	16*	42	7.9	24	73
RA 1505	5	13	38	7.5	20	77
RA 1604	4	12	34	7.1	23	75
TROJAN T1100	5	13	38	8.6	18	78
TROJAN T1230	4	11	32	7.1	23	74
Z 52(W)	5	14	32	7.2	27	71
BLSD (K-50)		3		1.1	NS	NS
CV (%)		35.7		3.1	20.5	4.2

+EXPERIMENTAL. SEED OF THIS HYBRID MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

**HIGHEST YIELDER.

*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

TABLE 30. PERFORMANCE OF CORN SILAGE HYBRIDS AT ROWAN COUNTY - 1983.

HYBRID	DRY MATTER TONS/ACRE	SILAGE YIELD TONS/ACRE	% DRY MATTER AT HARVEST	CRUDE PROTEIN %	A.D. FIBER %	TDN %
ASGROW RX450A	4	12*	38	9.0	33	65
+B + B X 400	3	8	41	9.3	35	64
COKER 22	4	12*	34	9.2	35	64
COKER 56	4	12*	39	8.5	35	64
DEKALB DK-747	3	10	30	9.5	35	64
DEKALB DK-789	4	10	34	10.7	34	64
DEKALB XL-32AA	3	8	39	9.5	35	64
FCX 717	3	8	39	9.5	34	64
FCX 848	3	9	29	7.8	34	65
FCX 929(W)	4	12*	34	8.6	36	63
FUNK'S G-4734	4	12*	40	8.6	35	64
+FUNK'S 8006X	4	12*	40	9.7	36	63
NK PX79	3	10	32	8.7	36	63
+P-A-G 90015	4	12*	32	8.6	37	63
PIONEER BRAND 3005	4	11	28	9.5	37	63
PIONEER BRAND 3147	4	13**	37	7.7	33	65
PIONEER BRAND 3160	4	12*	39	9.1	33	65
PIONEER BRAND 3165	4	11	40	8.0	31	66
PIONEER BRAND 3187	4	11	35	9.4	37	62
PIONEER BRAND 3389	5	13**	43	7.5	32	66
RA 1505	4	12*	39	8.4	35	64
RA 1604	3	9	35	10.4	35	64
TROJAN T1100	3	9	39	8.9	33	65
TROJAN T1230	4	10	33	10.2	36	63
Z 52(W)	4	11	35	8.1	34	65
BLSD (K-50)		2		1.8	NS	NS
CV (%)		20.0		7.4	9.6	2.2

+EXPERIMENTAL. SEED OF THIS HYBRID MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

**HIGHEST YIELDER.

*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

TABLE 31. AVERAGE PERFORMANCE OF CORN SILAGE HYBRIDS - 1983.

HYBRID	DRY MATTER TONS/ACRE	SILAGE YIELD TONS/ACRE	% DRY MATTER AT HARVEST	CRUDE PROTEIN %	FIBER %	TDN %
ASGROW RX450A	4	13	37	8.6	29	69
+B + B X 400	3	10	40	8.7	30	69
COKER 22	4	12	34	8.4	29	69
COKER 56	4	12	39	8.0	30	69
DEKALB DK-747	4	11	30	8.2	30	69
DEKALB DK-789	4	11	34	8.8	29	69
DEKALB XL-32AA	4	11	39	8.5	30	69
FCX 717	4	10	38	8.4	30	68
FCX 848	3	9	29	7.8	28	70
FCX 929(W)	4	12	34	8.1	31	68
FUNK'S G-4734	5	14	40	8.1	29	69
+FUNK'S 8006X	5	13	39	9.2	30	69
NK PX79	4	11	32	8.2	30	68
+P-A-G 90015	5	14	31	8.5	31	68
PIONEER BRAND 3055	4	11	28	8.8	32	67
PIONEER BRAND 3147	5	14	37	7.5	29	69
PIONEER BRAND 3160	5	14	38	8.7	28	70
PIONEER BRAND 3165	5	14	39	7.8	27	70
PIONEER BRAND 3187	4	12	35	8.3	30	69
PIONEER BRAND 3389	5	15	43	7.7	28	70
RA 1505	4	12	39	8.0	23	71
RA 1604	4	11	35	8.8	24	70
TROJAN T1100	4	11	39	8.8	26	72
TROJAN T1230	4	11	33	8.7	30	69
Z 52(W)	4	13	34	7.7	31	68

+EXPERIMENTAL. SEED OF THIS HYBRID MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 32. DATA COMBINED OVER LOCATIONS FOR CORN SILAGE HYBRIDS. TWO-YEAR AVERAGE 1982-1983.

HYBRID	DRY MATTER TONS/ACRE	SILAGE YIELD TONS/ACRE	% DRY MATTER AT HARVEST	CRUDE PROTEIN %	A.D. FIBER %	TDN %
ASGROW RX450A	6	17	33	8.7	32	66
COKER 56	6	17	34	8.4	32	67
DEKALB DK747	7	19	32	8.7	29	69
NK PX79	6	18	35	8.5	28	69
PIONEER BRAND 3147	7	19	36	8.1	28	69
PIONEER BRAND 3165	7	19	38	8.1	29	68
PIONEER BRAND 3389	7	20	40	7.9	27	70
RA 1604	7	19	37	9.0	25	70

GRAIN SORGHUM

The majority of the grain sorghum in North Carolina is grown in the Piedmont with increasing acreage being grown in the Coastal Plain. In the Piedmont it is generally grown as a full-season crop while it is often double-cropped behind small grain in the Coastal Plain.

Entries: Any individual or firm may make application for having entries tested. A fee is charged on an entry basis. Personnel of the testing program may also include entries about which further information is desired.

Agencies Sponsoring Entries	Address	Designation
Asgrow Seed Company	Kalamazoo, Michigan	Dorado, Corral Mustang, Topaz
Coker's Pedigreed Seed Company	Hartsville, SC	Coker
DeKalb-Pfizer Genetics	Lubbock, Texas	DeKalb
Funk Seeds International	Lubbock, Texas	Funk's
George Warner Seed Company, Inc.	Hereford, Texas	Warner
AgraTech Seed	Ashburn, Georgia	Gold Kist
Helena Chemical Company	Memphis, Tennessee	Helena
Northrup King Company	Ashford, Alabama	NK
Paymaster Seeds	Plainview, Texas	Paymaster
Pioneer Hi-Bred, Inc.	Tipton, Indiana	Pioneer hybrid

Test Locations: Three full-season tests were located in the Piedmont with one double-crop test located in the Coastal Plain (Figure 1).

Field Plot Technique: A randomized complete block design was used with four replications at each Piedmont test. The Coastal Plain location had five replications. Plots were two rows 22 feet long on a 38" or 36" row width. Plots were overseeded and thinned to 5-6 plants per foot if necessary. Cultural practices are shown in Table 33; Table 34 lists soil test results.

Seasonal Conditions: Soil moisture and soil temperatures were below normal at planting. Poor stands were observed at the Union County location which did not emerge for several weeks prior to a light shower. A severe drought was experienced at most locations during July and August as evidenced in the following rainfall table.

Month	Anson County	Franklin County	Union County	Washington County
July	0.30	1.30	0.70	2.17
August	1.40	2.70	1.60	2.96

As a result of the dry weather, the grain sorghum went into a dormant state except for two hybrids which headed approximately 10-14 days before most other hybrids at the Franklin County location. They were Corral and Dorado E. Heliothis infestations did not approach threshold levels at any location. Grasshoppers, species undetermined, caused considerable leaf damage at the Anson location; this coupled with severe drought stress resulted in that test being discarded. The Union County test was also not harvested. Extensive brid damage along with the severe water stress resulted in a poor test at Franklin County. The Washington County location received over six inches of rain in September resulting in a second growth of tillers. Consequently, that test was not harvested until the second set of heads matured.

Data: Data were collected on yield, moisture at harvest, head compactness, head exsertion, and plant height. All plot yields were adjusted to 14% moisture and reported in pounds per acre. A description of head type was determined and indicated with "1" denoting a compact head and "3" denoting a loose head. Head exsertion was measured as the distance from the top leaf to the base of the head; this distance gives an indication of the ease with which grain sorghum may be harvested without leaves and plant material hindering the operation.

Results: Two and three-year averages are shown in Tables 35 and 36 for the late-planted tests. Warner 744DR is the three-year leader with 4022 pounds/acre while DeKalb DK-64 is the two-year leader with 4409 pounds/acre. DeKalb DK-64 is also the yield leader for 1983 with 4364 pounds/acre (Table 37) although four other hybrids were not significantly different.

TABLE 33. CULTURAL PRACTICES ON GRAIN SORGHUM PERFORMANCE TRIALS, 1983.

COUNTY	FERTILIZER LBS/A AND GRADE	HERBICIDE PREEMERGENCE	TOPDRESSING LBS N/A	DATE OF PLANTING	DATE OF HARVEST
EARLY PLANTED TESTS					
ANSON COUNTY EDISON MARTIN	400 10-20-20 BROADCAST PREPLANT	BICEP	75	MAY 10	DISCARDED
UNION COUNTY KENT THOMAS	500 5-15-15 BROADCAST PREPLANT	RAMROD, AATREX	100	MAY 10	DISCARDED
FRANKLIN COUNTY ELMO MAY		RAMROD, AATREX	75	MAY 9	DISCARDED
LATE PLANTED TESTS					
WASHINGTON COUNTY JOHN SMITH		AATREX	100 2, 4-D LANATE	JUNE 30	NOVEMBER 22

TABLE 34. SOIL TEST RESULTS - 1983.

LOCATION	HM %	W-V	CEC	BS %	AC	PH	P-I	K-I	CA %	MG %	MN-I	ZN-I	CU-I
ANSON	.6	.77	9.7	92	.8	6.8	51	80	63.8	23.9	166	38	46
FRANKLIN	.4	1.31	2.4	50	1.2	5.2	82	16	37.5	9.2	86	54	30
UNION	.4	1.09	6.5	81	1.2	5.9	44	74	52.6	23.2	166	35	30
WASHINGTON	3.1					5.8	106	56					33

TABLE 35. DATA COMBINED OVER LOCATIONS FOR LATE-PLANTED GRAIN SORGHUM THREE-YEAR AVERAGE - 1981-1982-1983.

ENTRIES	YIELD LBS/A	MOISTURE	HEAD COM-PACTNESS	EXSERTION INCHES	PLANT HEIGHT INCHES
WARNER 744DR	4022	.189	2.0	7	53
PIONEER HYBRID B815	3579	.188	1.7	7	58
HELENA 1330DR	3517	.200	1.2	9	60
COKER 7675	3235	.191	1.0	8	51
HELENA 1225DR	2976	.197	1.0	8	51
WARNER 839DR	2921	.197	1.2	8	52

TABLE 36. DATA COMBINED OVER LOCATIONS FOR LATE-PLANTED GRAIN SORGHUM TWO-YEAR AVERAGE -. 1982-1983.

ENTRIES	YIELD LBS/A	MOISTURE	HEAD COM-PACTNESS	EXSERTION INCHES	PLANT HEIGHT INCHES
DEKALB DK-64	4409	.218	1.0	8	49
WARNER 744DR	4193	.211	1.0	7	47
PIONEER HYBRID B815	4175	.208	2.0	6	54
PIONEER HYBRID 8222	4035	.225	1.0	6	41
PIONEER HYBRID 8333	3660	.224	2.5	8	43
HELENA 1330DR	3466	.228	1.5	9	49
PIONEER HYBRID 8300	3432	.218	1.5	8	49
COKER 7675	3194	.216	1.0	8	40
HELENA 1225DR	2851	,226	1.0	7	42
WARNER 839DR	2817	.225	1.5	8	46
DEKALB DK-38	2541	.229	1.0	8	46
NK 2244	1889	.246	1.5	11	44

TABLE 37. PERFORMANCE DATA FOR LATE-PLANTED GRAIN SORGHUM - WASHINGTON COUNTY 1983.

ENTRIES	YIELD LBS/A	MOISTURE	HEAD COM-PACTNESS	EXSERTION INCHES	PLANT HEIGHT INCHES
DEKALB DK-64	4364**	.224	1	8	44
PIONEER HYBRID 8222	4313*	.239	1	5	36
-WARNER 744DR	4249*	.204	1	5	42
-PIONEER HYBRID B815	4044*	.216	2	6	46
+DEKALB X-360	3944*	.230	2	6	36
PIONEER HYBRID 8333	3439	.225	3	7	40
PIONEER HYBRID 8300	2956	.224	1	8	42
HELENA 1330DR	2938	.232	1	8	40
COKER 7675	2854	.220	1	6	32
NK 2660	2353	.233	1	6	32
HELENA 1225DR	2335	.237	1	6	38
WARNER 839DR	2229	.233	1	8	44
WARNER 685DR	1791	.257	1	10	40
DEKALB DK-38	1743	.251	1	8	38
+DEKALB X-350	1725	.248	1	7	30
NK 2244	1368	.282	1	10	38
BLSD (K-50)	534				
C.V. (%)	17				

+EXPERIMENTAL. SEED OF THIS ENTRY MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY ALSO HAVE A DIFFERENT DESIGNATION.
-BIRD RESISTANT.
**HIGHEST YIELDER IN TEST.
*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

SOYBEANS

There are several high yielding soybean varieties available to the producer from which he may choose according to desired maturity date, lodging, pest resistance, etc. Information on the performance of commercial varieties and experimental lines grown in different locations in the state is provided in this report.

Entries: Experimental lines and commercial varieties developed by both public and private agencies are included in this program. Any individual or firm may make application for having entries included. A fee is charged on an entry basis. Personnel of the testing program may include entries about which further information is desired.

Agencies Sponsoring Entries	Address	Designation
Asgrow Seed Company	Kalamazoo, MI	A
Coker's Pedigreed Seed Company	Hartsville, SC	Coker
Delta & Pine Land Company	Wilson, NC	Deltapine
FCX, Inc.	Raleigh, NC	FFR
FFR Cooperative	Lake City, SC	FFR
Helena Chemical Company	Memphis, TN	Sumter, HB, Wilstar, Shiloh
Jacob Hartz Seed Company	Stuttgart, AR	H
North American Plant Breeders	West Memphis, AR	Agripro, NAPB
Northrup King Company	Ashford, AL	NK, McNair
N. C. Agric. Res. Ser. & USDA	Raleigh, NC	N
Pioneer Hi-Bred Int., Inc.	Tipton, IN	Pioneer brand
Ring Around Products, Inc.	Dallas, TX	RA

Test Locations: One full-season test was located in the Piedmont and three in the Coastal Plain; two late-planted tests were located also in the Coastal Plain and one in the Piedmont.

Field Plot Technique: For the full-season tests, plots consisted of four rows 22 feet long with a 30" to 38" row width; alleys were five feet. The center two rows were harvested to determine plot weight. For the late-planted tests, plots consisted of four rows 22 feet long with a 30" row width; alleys were five feet. Cultural practices are found in Table 38; soil test results are found in Table 39.

The early-planted tests were planted in a lattice design with three replications per location. The late-planted tests were planted in a randomized complete blocks design with three replications. The entries were divided into three major maturity groups--Group V, VI, and VII. The Group VII's included a few Group VIII entries. All entries in the full-season tests were not included in the late-planted tests and a few entries in the late-planted tests were not included in the full-season tests.

Seasonal Conditions: A cool, wet spring delayed some planting of soybeans and resulted in only poor to fair stands in many locations. The Duplin County full-season test was replanted due to poor stand. Severe drought stress in July, August and early September and above normal temperatures during the latter part of August and September resulted in lower than normal yields, particularly at Rowan County.

Above normal temperatures in the fall affected dry down of the soybeans resulting in tests being harvested later than normal. Harvest conditions were not always ideal. Rainfall delayed harvest of some tests until December and prevented other tests from being harvested altogether.

Insects did not appear to be a major problem at any test site in 1983 although the test at Washington County was sprayed for Heliothis. Stinkbugs were evident at the Robeson County location; however, they did not reach the threshold level. Phytophthora root rot was observed in several plots in the Robeson County location.

Data: Data were collected on yield, moisture, lodging, plant height, date of 50% flower, date of pod maturity, seed size, and oil percent. Yields were calculated on plot weight and adjusted to 14% moisture. Moisture was determined on each plot in the combine with a GAC-II moisture tester. Lodging was scored on a scale of 1-5 with 1 being no lodging and 5 being completely lodged. Plant height was determined by measuring from the ground to the top of the plant prior to harvest. Flowering date was determined when 50% of the plants had flowers in the top four nodes. Date of pod maturity was observed when 95% of the pods turned brown. Oil percent was determined at the USDA Soybean Laboratory.[3/]

Results: Group V soybeans are referred to as early-maturing soybeans; Group VI is the medium-maturing soybeans; and Groups VI and VIII comprise the late-maturing soybeans in the following discussion and tables. The full-season tests will be discussed first.

Table 40 lists a number of varieties and their characteristics all of which may not have been tested in 1983.

Forrest and Deltapine 105 are the yield leaders for the early-maturing soybeans planted early after three years (Table 41). Coker 485 is the yield leader after two years. Coker 485 and Asgrow A-5474 led the early-maturity group across Robeson and Washington Counties with an average of 37 bushels per acre (Table 42). Rowan County data were not included in the averaged due to the uniqueness of that particular location.

For the medium-maturity group of soybeans, over the last three years N75-2213 is the yield leader with 41 bushels per acre, and over the last two years, Centennial leads in yield with 35 bushels per acre (Table 43).

[3/]Appreciation goes to Joe Burton and Linda Caldwell for their cooperation.

In 1983, two experimentals and NK S69-96 averaged 42 bushels per acre over Robeson and Washington Counties followed closely by RA 680 (Table 44).

Of the late-maturing group of soybeans, Coker 368 is the three-year yield leader with an average of 45 bushels per acre and also the two-year yield leader with an average of 42 bushels per acre (Table 45). In 1983, Coker 237 leads this group with an average of 46 bushels per acre (Table 46).

In the late-planted, early maturing soybeans, Forrest is the three and two-year yield leader (Table 47). Forrest also is the yield leader for 1983 across two locations and averaged 23 bushels per acre (Table 48). NK S69-96 leads the medium-maturity group of soybeans planted late over the last three years and ties with N75-2213 for yield leader after two years (Table 49). NK S69-96 again leads the medium-maturity group in yield for 1983 with an average of 25 bushels per acre (Table 50). This particular soybean variety led the test at both locations.

Coker 368 leads the late-planted, late-maturing group over the last three and two-year (Table 51) and for 1983 (Table 52).

Lodging did not appear to be of any consequence in any location in 1983 primarily due to drought stress in the middle of the season which resulted in shorter than normal plants. Middles were not lapped in any of the late-planted tests and in very few of the full-season tests.

Flower and pod maturity data are listed in Table 53. The data are complete. Blank spaces indicate that the particular variety was not planted at that test.

Pod maturity data indicate the lateness of the crop which was due to the above normal temperatures experienced during September and October. Table 54 lists the oil percentage and seed size for entries in the full-season test. Seed size is smaller than normal and is an apparent result of the seasonal conditions experienced in 1983.

TABLE 38. CULTURAL PRACTICES FOR SOYBEAN PERFORMANCE TRIALS - 1983.

COUNTY	FERTILIZER LBS/A	HERBICIDE	SOIL TYPE	DATE OF PLANTING	DATE OF HARVEST
EARLY PLANTED TESTS					
ROWAN COUNTY	350 0-29-20	TREFLAN VERNAM		MAY 27	DECEMBER 1
ROBESON COUNTY	100 POTASH	DYANAP LASSO	NORFOLK LOAMY SAND	MAY 12	NOVEMBER 14
DUPLIN COUNTY		DYANAP DUAL	COXVILLE FINE SANDY LOAM	MAY 26	DISCARDED
WASHINGTON COUNTY	500 2-5-15	LASSO	PORTSMOUTH FINE SANDY LOAM	MAY 19	NOVEMBER 23
LATE PLANTED TESTS					
JOHNSTON COUNTY		DYANAP DUAL		JUNE 17	NOVEMBER 30
PASQUOTANK COUNTY			BLADEN SILT LOAM	JUNE 29	NOVEMBER 18
UNION COUNTY		DYANAP DUAL		JUNE 27	DISCARDED
PRELIMINARY TESTS					
ROWAN COUNTY	300 0-25-25 2 TON LIME	TREFLAN DUAL		MAY 27	DECEMBER 1
WASHINGTON COUNTY	500 2-5-15	LASSO	PORTSMOUTH FINE SANDY LOAM	MAY 19	NOVEMBER 23

TABLE 39. SOIL TEST RESULTS - 1983.

LOCATION	HM %	W-V	CEC	BS %	AC	pH	P-I	K-I	CA %	MG %	MN-I	ZN-I	CU-I
EARLY PLANTED													
DUPLIN	1.6	1.18	5.6	72	1.6	5.8	166	68	55.2	10.3	45	112	20
ROBESON	.9	1.18	4.8	75	1.2	6.0	166	74	48.2	18.9	73	205	48
ROWAN	.6	.84	5.8	86	.8	6.1	10	62	53.4	27.5	166	52	43
WASHINGTON	3.8					5.6	42	62					
LATE PLANTED													
JOHNSTON	.5	1.34	3.7	79	.8	6.1	166	62	53.6	16.6	166	96	31
PASQUOTANK	.4	1.23	4.9	100	0	6.9	32	70	67.8	25.1	126	130	46
UNION	.6	1.08	6.5	88	.8	6.1	36	74	56.7	25.4	166	33	28

TABLE 40. CHARACTERISTICS OF SOYBEAN VARIETIES IN NORTH CAROLINA.†

VARIETY	MATURITY			RESISTANCE			INCHES	SIZE	COLOR		
	GROUP	RELATIVE	DATE¶	SHATTER	LODGE	NEMA§			FLOWER	PUB.#	HILUM
A 5474	V	EARLY	OCT. 5-9	EX.	EX.	C1,3,4,	30-34	LARGE	WHITE	TAWNY	BLACK
A 5618	V	EARLY	OCT. 11-15	GOOD	EX.		31-35	LARGE	PURPLE	GRAY	BUFF
A 5939	V	EARLY	OCT. 10-14	GOOD	GOOD	C1,3,4	34-38	MED.	PURPLE	TAWNY	BLACK
A 6520	VI	MEDIUM	OCT. 17-21	GOOD	FAIR	C3,4	32-36	MED.	PURPLE	TAWNY	BLACK
A 7372	VII	LATE	OCT. 23-27	EX.	GOOD	RI	34-38	MED.	WHITE	TAWNY	BLACK
AGRIPRO 55	V	EARLY	OCT. 5-9	GOOD	GOOD		36-40	SMALL	PURPLE	TAWNY	BLACK
AGRIPRO 70	VII	LATE	OCT. 27-31	EX.	FAIR	RI	43-47	SMALL	WHITE	TAWNY	BLACK
AGRIPRO 71	VII	LATE	OCT. 25-29	EX.	FAIR	RI	40-44	MED.	WHITE	GRAY	BUFF
BAY	V	EARLY	OCT. 4-8	GOOD	EX.		32-36	LARGE	PURPLE	GRAY	VARIES
BEDFORD	V	EARLY	OCT. 8-12	GOOD	GOOD	C3,4RI,A	39-43	SMALL	WHITE	TAWNY	BLACK
BRADLEY	VI	MEDIUM	OCT. 14-18	GOOD	FAIR	C3,4RI,A	31-35	SMALL	WHITE	TAWNY	BLACK
BRAGG	VII	LATE	OCT. 26-30	EX.	FAIR	RI	40-44	MED.	WHITE	TAWNY	BLACK
BRAXTON	VII	LATE	OCT. 28-NOV. 2	GOOD	FAIR	RI,A	39-43	LARGE	PURPLE	TAWNY	BLACK
BRYSOY 9	VI	MEDIUM	OCT. 20-24	EX.	FAIR		40-44	MED.	PURPLE	TAWNY	BLACK
CENTENNIAL	VI	MEDIUM	OCT. 20-24	EX.	FAIR	CL,3RI	36-40	MED.	PURPLE	TAWNY	BLACK
COKER 136	V	EARLY	OCT. 10-14	EX.	GOOD		36-40	SMALL	PURPLE	GRAY	BUFF
COKER 156	VI	MEDIUM	OCT. 23-27	GOOD	GOOD		36-40	SMALL	WHITE	GRAY	BUFF
COKER 237	VII	LATE	OCT. 27-31	GOOD	GOOD		36-40	MED.	WHITE	TAWNY	BLACK
COKER 317	VII	LATE	OCT. 27-31	GOOD	GOOD	C3,L	38-42	MED.	PURPLE	GRAY	VARIES
COKER 338	VIII	V. LATE	NOV. 4-8	GOOD	GOOD		40-44	LARGE	WHITE	TAWNY	BROWN
COKER 355	V	EARLY	OCT. 8-12	GOOD	GOOD	C3,4	32-36	SMALL	PURPLE	TAWNY	BLACK
COKER 368	VIII	V. LATE	NOV. 4-8	GOOD	GOOD	C3,RI,L	40-44	MED.	WHITE	GRAY	BUFF
COKER 488	VIII	V. LATE	NOV. 4-8	EX.	EX.		41-45	MED.	PURPLE	TAWNY	BROWN
DARE	V	EARLY	OCT. 8-12	FAIR	GOOD		32-36	SMALL	WHITE	GRAY	BUFF
DAVIS	VI	MEDIUM	OCT. 20-24	FAIR	FAIR		38-42	MED.	WHITE	GRAY	BUFF
DELTAPINE 105	V	EARLY	OCT. 12-16	GOOD	GOOD		36-40	MED.	PURPLE	GRAY	VARIES
DELTAPINE 246	VI	MEDIUM	OCT. 19-23	GOOD	FAIR		34-38	MED.	PURPLE	TAWNY	BLACK
DELTAPINE 345	V	EARLY	OCT. 13-17	GOOD	EX.		39-43	LARGE	PURPLE	TAWNY	BLACK

TABLE 40. CONTINUED.

VARIETY	MATURITY GROUP	MATURITY RELATIVE	MATURITY DATE¶	RESISTANCE SHATTER	RESISTANCE LODGE	RESISTANCE NEMA§	HEIGHT INCHES	SEED SIZE	COLOR FLOWER	COLOR PUB.#	COLOR HILUM
DELTAPINE 417	VII	LATE	OCT. 29-NOV. 3	GOOD	GOOD		40-44	MED.	WHITE	GRAY	BUFF
DELTAPINE 497	VII	LATE	OCT. 26-30	GOOD	GOOD		40-44	SMALL	WHITE	TAWNY	BLACK
DELTAPINE 506	VI	MEDIUM	OCT. 22-26	GOOD	FAIR		39-43	MED.	WHITE	TAWNY	BLACK
DUOCROP	VII	LATE	OCT. 26-30	EX.	GOOD		45-49	LARGE	WHITE	GRAY	BUFF
ESSEX	V	EARLY	OCT. 2-6	GOOD	EX.		28-32	SMALL	PURPLE	GRAY	BUFF
FFR 557	V	EARLY	OCT. 10-14	EX.	GOOD		35-39	SMALL	WHITE	TAWNY	BLACK
FFR 666	VI	MEDIUM	OCT. 20-24	EX.	FAIR		31-35	SMALL	PURPLE	TAWNY	BLACK
FFR 668	VI	MEDIUM	OCT. 23-27	GOOD	EX.		38-42	MED.	PURPLE	GRAY	VARIES
FORREST	V	EARLY	OCT. 8-12	GOOD	GOOD	CL,3,RI	34-38	SMALL	WHITE	TAWNY	BLACK
FOSTER	VIII	V. LATE	NOV. 4-8	EX.	FAIR	C3,RI	35-39	MED.	PURPLE	GRAY	BROWN
GASOY 17	VII	LATE	NOV. 1-5	EX.	FAIR		41-45	MED.	WHITE	GRAY	BUFF
GOVAN	VII	LATE	OCT. 26-30	EX.	FAIR	RI,A	38-42	MED.	WHITE	GRAY	VARIES
HUTTON	VIII	V. LATE	NOV. 4-8	EX.	GOOD	RI	36-40	LARGE	PURPLE	TAWNY	BLACK
JEFF	VI	MEDIUM	OCT. 19-23	GOOD	FAIR	CL,3,4	36-40	MED.	PURPLE	TAWNY	BROWN
JOHNSTON	VIII	V. LATE	NOV. 2-6	GOOD	GOOD		33-37	LARGE	PURPLE	TAWNY	BLACK
KERSHAW	VI	MEDIUM	OCT. 20-24	GOOD	FAIR		38-42	MED.	WHITE	GRAY	BUFF
KIRBY	VIII	V. LATE	NOV. 5-9	GOOD	GOOD	C3,RI	36-40	SMALL	PURPLE	TAWNY	BLACK
LANCER	VI	MEDIUM	OCT. L7-23	GOOD	EX.		37-41	SMALL	PURPLE	GRAY	BLACK
LEE 74	VI	MEDIUM	OCT. 20-24	EX.	FAIR	RI	34-38	SMALL	PURPLE	TAWNY	BLACK
MCNAIR 700	VII	LATE	OCT. 23-27	GOOD	GOOD		36-40	MED.	PURPLE	TAWNY	BLACK
MCNAIR 770	VII	LATE	OCT. 24-28	GOOD	GOOD	C1,3	36-40	LARGE	PURPLE	GRAY	BROWN
MCNAIR 800	VII	LATE	OCT. 26-30	GOOD	FAIR		35-39	MED.	WHITE	GRAY	BUFF
MITCHELL	IV	V. EARLY	SEPT. 22-26	FAIR	EX.		26-30	MED.	PURPLE	TAWNY	BROWN
NATHAN	V	EARLY	OCT. 4-8	GOOD	GOOD	C3,4RI	32-36	SMALL	WHITE	TAWNY	BLACK
PICKETT 71	VI	MEDIUM	OCT. 20-24	EX.	FAIR	C1,3	31-35	SMALL	PURPLE	GRAY	BROWN
PIONEER 5482	IV	V. EARLY	OCT. 4-8	GOOD	EX.		31-35	MED.	WHITE	TAWNY	BLACK
PIONEER 6782	VI	MEDIUM	OCT. 19-23	GOOD	FAIR		38-42	MED.	PURPLE	TAWNY	BLACK
PIONEER 9561	V	EARLY	OCT. 9-13	GOOD	GOOD		36-40	MED.	WHITE	TAWNY	BLACK

TABLE 40. CONTINUED.

VARIETY	MATURITY GROUP	MATURITY RELATIVE	MATURITY DATE¶	RESISTANCE SHATTER	RESISTANCE LODGE	RESISTANCE NEMA§	HEIGHT INCHES	SEED SIZE	COLOR FLOWER	COLOR PUB.#	COLOR HILUM
RA 480	V	EARLY	OCT. 1-5	EX.	EX.		40-44	MED.	PURPLE	TAWNY	BLACK
RA 481	V	EARLY	OCT. 6-10	EX.	GOOD		38-42	MED.	WHITE	GRAY	BUFF
RA 502	V	EARLY	OCT. 3-7	GOOD	GOOD	C3	30-34	MED.	PURPLE	BROWN	BLACK
RA 604	VI	MEDIUM	OCT. 14-18	GOOD	EX.	C1,3RI	35-39	MED.	PURPLE	TAWNY	BLACK
RA 606	VI	MEDIUM	OCT. 14-18	GOOD	FAIR	C3	38-42	MED.	PURPLE	GRAY	BUFF
RA 680	VI	MEDIUM	OCT. 18-22	EX.	GOOD	C3RI	36-40	MED.	PURPLE	TAWNY	BLACK
RA 701	VII	LATE	OCT. 26-30	GOOD	GOOD	C3RI	37-41	LARGE	MIXED	TAWNY	BLACK
RA 800	VIII	V. LATE	NOV. 4-8	EX.	FAIR	C3,RI	44-48	MED.	PURPLE	TAWNY	BLACK
RANSOM	VII	LATE	OCT. 26-30	EX.	EX.		36-40	LARGE	PURPLE	TAWNY	BLACK
S69-54	VI	MED.	OCT. 21-25	GOOD	FAIR	C1,3	35-39	MEDIUM	PURPLE	GRAY	BROWN
S69-96	VI	MEDIUM	OCT. 22-26	GOOD	FAIR		36-40	SMALL	WHITE	GRAY	BUFF
S72-60	VII	LATE	OCT. 26-30	GOOD	FAIR		37-41	MED.	PURPLE	TAWNY	BLACK
SHILOH	V	EARLY	OCT. 8-12	GOOD	GOOD		33-37	SMALL	WHITE	TAWNY	BROWN
SOHOMA	VI	MEDIUM	OCT. 20-24	EX.	GOOD		37-41	MED.	PURPLE	GRAY	VARIES
SUMTER	VI	MEDIUM	OCT. 20-24	GOOD	FAIR		37-41	MED.	WHITE	TAWNY	BROWN
WARE	IV	V. EARLY	SEPT. 22-26	EX.	EX.		23-27	LARGE	WHITE	GRAY	BUFF
WILSTAR 550	V	EARLY	OCT. 8-12	EX.	FAIR		34-38	SMALL	PURPLE	TAWNY	VARIES
WILSTAR 790	VII	LATE	OCT. 26-30	GOOD	GOOD		38-42	MED.	WHITE	TAWNY	BLACK
WRIGHT	VII	LATE	OCT. 26-30	EX.	FAIR	RI,A	40-44	MED.	PURPLE	TAWNY	BLACK
YORK	V	EARLY	OCT. 12-16	FAIR	GOOD		31-35	LARGE	PURPLE	GRAY	BUFF

¶ - "TYPICAL" DATES OF PHYSIOLOGICAL MATURITY (SAFE FROM FROST) WHEN PLANTED IN MID-MAY AT RALEIGH, N. C.
§ - SOYBEAN CYST (C), WITH RACE NUMBER IN SUBSCRIPT, OR ROOT-KNOT (R), M. ARENARIA (A) OR M. INCOGNITA (I), OR LANCE (L).
# - PUBESCENCE.
† - PREPARED BY E. JAMES DUNPHY, CROP SCIENCE EXTENSION SPECIALIST (SOYBEANS), NORTH CAROLINA STATE UNIVERSITY, RALEIGH, N. C., APRIL 1983.

TABLE 41. PERFORMANCE OF EARLY PLANTED EARLY MATURING SOYBEANS COMBINED OVER LOCATIONS.
THREE-YEAR AVERAGE 1981, 1982, AND 1983.

VARIETY	YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
FORREST	40	1.5	36	.140
DELTAPINE 105	40	1.6	37	.141
PIONEER BRAND 9561	39	1.4	37	.145
ASGROW A5474	39	1.4	34	.145
BAY	39	1.4	36	.150
BEDFORD	37	1.8	41	.141
WILSTAR 550	36	1.5	35	.138
ASGROW A5618	36	1.3	33	.147
ASGROW A5939	34	2.0	37	.161
TWO-YEAR AVERAGE - 1982, 1983.				
COKER 485	35	1.1	32	.153
ASGROW A5474	33	1.2	34	.157
BAY	32	1.2	38	.164
PIONEER BRAND 9561	32	1.1	36	.157
DELTAPINE 105	32	1.3	37	.152
FORREST	32	1.2	37	.151
+DELTAPINE X532	31	1.2	32	.146
ASGROW A5618	31	1.1	33	.159
BEDFORD	31	1.3	42	.151
+DELTAPINE X544	31	1.2	35	.150
+DELTAPINE X529	30	1.2	32	.153
PIONEER BRAND 5482	30	1.1	33	.149
COKER 355	30	1.3	34	.151
COKER 425	29	1.1	29	.148
RA 502	28	1.1	41	.156
WILSTAR 550	27	1.3	35	.149
ASGROW A5939	25	1.5	37	.182

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 42. PERFORMANCE OF EARLY PLANTED EARLY MATURING SOYBEANS 1983.

VARIETY	ROWAN YIELD BUS/A	ROBESON YIELD BUS/A	WASHINGTON YIELD BUS/A	AVERAGE YIELD BUS/A 1/	LODGING	PLANT HEIGHT INCHES	MOISTURE
COKER 485	18*	40*	34**	37**	1.0	31	.160
FFR 557	17*	39*	34**	36*	1.0	31	.157
FORREST	17*	39*	33*	36*	1.0	34	.153
ASGROW A5474	15	42*	32*	37**	1.0	32	.157
+DELTAPINE X532	15	43**	30*	36*	1.1	27	.150
+HBF-102-5	18*	39*	28*	34*	1.3	33	.155
PIONEER 9561	16*	36*	33*	34*	1.0	29	.162
DELTAPINE 105	19**	35*	30*	32*	1.1	34	.158
PIONEER 5482	16*	39*	28*	34*	1.0	32	.150
RA 502	13	38*	32*	35*	1.0	37	.163
BEDFORD	15	39*	29*	34*	1.0	40	.154
COKER 355	13	37*	32*	34*	1.0	30	.155
BAY	15	37*	30*	34*	1.0	35	.166
WILSTAR 550	12	39*	30*	34*	1.0	26	.154
ASGROW A5618	15	36*	29*	32*	1.0	32	.164
+DELTAPINE X544	15	37*	27*	32*	1.0	30	.153
COKER 425	15	35*	28*	32*	1.0	26	.153
+DELTAPINE X529	11	33*	28*	30	1.0	26	.160
SHILOH	15	26*	31*	28	1.0	33	.164
ASGROW A5939	12	29*	27*	28	1.0	31	.165
MEAN OF TEST	15	37	30				
B.L.S.D. (KRATIO=50)	4	NS	NS	7			
C.V. (%)	14	15	12	8			

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

**HIGHEST YIELDER.

*NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDER.

1/ DOES NOT INCLUDE ROWAN COUNTY.

TABLE 43. PERFORMANCE OF EARLY PLANTED MEDIUM MATURING SOYBEANS COMBINED OVER LOCATIONS.
THREE-YEAR AVERAGE 1981, 1982, AND 1983.

VARIETY	YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
+N75-2213	41	2.0	41	.136
COKER 156	40	1.5	35	.137
RA 680	40	1.6	38	.134
CENTENNIAL	40	1.5	38	.133
NK S69-96	40	2.0	39	.135
DELTAPINE 506	38	1.7	44	.136
DAVIS	37	1.9	40	.135
TWO-YEAR AVERAGE - 1982, 1983.				
CENTENNIAL	35	1.2	38	.139
RA 680	33	1.3	36	.141
+N75-2213	33	1.5	39	.145
COKER 156	33	1.2	33	.144
NK S69-96	33	1.3	39	.143
RA 604	31	1.3	40	.138
JEFF	30	1.4	36	.143
RA 606	30	1.3	37	.139
DELTAPINE 506	29	1.2	41	.144
+N77-114	28	1.1	30	.142
DAVIS	28	1.3	37	.143

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 44. PERFORMANCE OF EARLY PLANTED MEDIUM MATURING SOYBEANS 1983.

VARIETY	ROWAN YIELD BUS/A	ROBESON YIELD BUS/A	WASHINGTON YIELD BUS/A	AVERAGE YIELD 1/ BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
+NAPB NS340-79	18*	45*	39*	42**	1.0	36	.147
+HB-468-D1-6	18*	46*	38*	42**	1.0	34	.144
NK S69-96	16*	47**	38*	42**	1.0	34	.147
RA 680	18*	41*	41**	41*	1.0	35	.143
FFR 668	17*	43*	37*	40*	1.0	35	.147
+N75-2213	14*	47**	33	40*	1.1	36	.152
CENTENNIAL	14*	40	37*	38*	1.0	35	.140
FFR 666	14*	41*	35	38*	1.0	31	.149
JEFF	15*	37	37*	37*	1.0	39	.146
RA 606	16*	40	33	36*	1.0	37	.141
DELTAPINE 506	20**	33	37*	35*	1.0	41	.151
+N79-491	14*	39	35	37*	1.0	31	.147
ASGROW A6520	14*	39	35	37*	1.0	27	.151
RA 604	16*	34	37*	35*	1.0	36	.146
DAVIS	14*	39	34	36*	1.1	36	.149
COKER 156	12*	33	39*	36*	1.0	30	.146
KERSHAW	16*	35	34	34	1.0	41	.152
SUMTER	12*	39	32	36*	1.0	40	.151
+HB-DX6-6	15*	35	30	32	1.5	36	.153
+N77-114	14*	33	31	32	1.0	30	.145
MEAN OF TEST	17	39	35				
B.L.S.D. (KRATIO=50)	NS	7	5	8			
C.V. (%)	21	13	9	9			

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

**HIGHEST YIELDER.

*NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDER.

1/ DOES NOT INCLUDE ROWAN COUNTY.

TABLE 45. PERFORMANCE OF EARLY PLANTED LATE MATURING SOYBEANS COMBINED OVER LOCATIONS.
THREE-YEAR AVERAGE 1981, 1982, AND 1983.

VARIETY	YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
COKER 368	45	2.1	42	.139
COKER 237	44	1.6	38	.141
NK S72-60	43	2.3	39	.140
MCNAIR 700	43	1.6	37	.136
AGRIPRO AP71	43	2.3	38	.142
GASOY 17	43	2.2	41	.139
JOHNSTON	42	2.2	35	.141
RANSOM	42	1.9	39	.140
COKER 488	42	2.0	42	.140
BRAXTON	41	1.7	43	.139
DELTAPINE 497	41	2.0	44	.135
MCNAIR 770	41	1.7	35	.142
FOSTER	41	2.4	38	.140
COKER 317	40	2.0	39	.143
WILSTAR 790	40	1.8	40	.137
BRAGG	40	2.1	43	.138
HUTTON	38	2.5	41	.140
TWO-YEAR AVERAGE - 1982, 1983.				
COKER 368	42	1.5	41	.150
GASOY 17	40	1.6	38	.149
DELTAPINE 417	40	1.6	43	.150
AGRIPRO AP71	40	1.7	38	.154
NK S72-60	39	1.6	37	.151
COKER 237	39	1.2	35	.153
COKER 488	38	1.4	41	.152
BRAXTON	38	1.3	41	.150
FOSTER	38	1.7	37	.151
+NAPB 705	38	1.6	37	.150
DELTAPINE 497	37	1.6	42	.147
MCNAIR 770	37	1.3	34	.156
MCNAIR 700	37	1.3	36	.148
JOHNSTON	37	1.6	32	.153
+HB-507-D1-7	36	1.6	35	.144
ASGROW A7372	35	1.4	36	.148
COKER 317	35	1.5	37	.155
RANSOM	35	1.3	37	.153
BRAGG	35	1.4	40	.150
WILSTAR 790	33	1.3	37	.148
HUTTON	32	2.1	38	.151

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 46. PERFORMANCE OF EARLY PLANTED LATE MATURING SOYBEANS 1983.

VARIETY	ROWAN YIELD BUS/A	ROBESON YIELD BUS/A	WASHINGTON YIELD BUS/A	AVERAGE YIELD[1] BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
DELTAPINE 417	18*	43 *	42 *	42*	1.0	40	.146
COKER 237	13	49 **	42 *	46**	1.0	29	.154
RA 801	19**	41 *	41 *	41*	1.3	37	.142
COKER 368	12	45 *	45 **	45*	1.0	38	.149
GASOY 17	12	45 *	43 *	44*	1.1	34	.145
RA 702	16*	44 *	39	42*	1.1	30	.150
BRAGG	18*	41 *	40 *	40*	1.0	38	.148
ASGROW A7372	15*	43 *	41 *	42*	1.0	27	.147
NK S72-60	16*	40	41 *	40*	1.0	36	.151
COKER 488	14	45 *	38	42*	1.0	39	.155
MCNAIR 700	14	43 *	39	41*	1.0	34	.147
AGRIPRO AP71	16*	36	43 *	40*	1.1	31	.155
DELTAPINE 497	16*	40	38	39*	1.0	38	.143
+NAPB 705	15*	40	40 *	40*	1.2	31	.149
BRAXTON	16*	36	41 *	38	1.0	37	.148
WILSTAR 790	14	41 *	38	40*	1.0	33	.148
HUTTON	12	40	39	40*	1.7	36	.149
COKER 317	12	32	43	38	1.0	32	.153
FOSTER	8	41 *	38	40*	1.1	33	.153
MCNAIR 770	13	36	38	37	1.0	30	.155
JOHNSTON	10	37	39	38	1.1	29	.155
RANSOM	10	35	40 *	38	1.0	30	.152
+HB-507-D1-7	10	33	38	36	1.0	31	.145
MEAN OF TEST	14	40	40				
B.L.S.D. (KRATIO=50)	5	9	6	8			
C.V. (%)	22	13	7	8			

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

**HIGHEST YIELDER.

*NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDER.

[1] DOES NOT INCLUDE ROWAN COUNTY.

TABLE 47. PERFORMANCE OF LATE PLANTED EARLY MATURING SOYBEANS COMBINED OVER LOCATIONS.
THREE-YEAR AVERAGE 1981, 1982, AND 1983.

VARIETY	YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
FORREST	29	1.0	28	.131
DELTAPINE 105	26	1.0	29	.130
ASGROW A5474	25	1.0	26	.125
BEDFORD	25	1.0	29	.127
ASGROW A5939	24	1.0	27	.127
BAY	22	1.0	25	.128
ASGROW A5618	21	1.0	24	.131
	TWO-YEAR AVERAGE - 1982, 1983.			
FORREST	27	1.0	26	.135
BEDFORD	23	1.0	27	.131
ASGROW A5474	22	1.0	25	.127
DELTAPINE 105	22	1.0	28	.132
ASGROW A5939	20	1.0	27	.130
BAY	19	1.0	24	.134
ASGROW A5618	18	1.0	23	.134

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 48. PERFORMANCE OF LATE PLANTED EARLY MATURING SOYBEANS 1983.

VARIETY	JOHNSTON YIELD BUS/A	PASQUOTANK YIELD BUS/A	AVERAGE YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
FORREST	8 *	38**	23**	1.0	24	.145
BEDFORD	7 *	37*	22*	1.0	27	.135
SHILOH	9 **	33*	21*	1.0	28	.141
PIONEER BRAND 9561	8 *	33*	20*	1.0	22	.142
WILSTAR 550	6 *	32*	19*	1.0	21	.135
ASGROW A5939	7 *	31*	19*	1.0	24	.135
DELTAPINE 105	8 *	29*	19*	1.0	27	.137
ASGROW A5474	7 *	30*	18*	1.0	21	.130
COKER 355	5 *	29*	17*	1.0	23	.134
ASGROW A5618	7 *	25	16*	1.0	20	.139
BAY	6 *	26	16*	1.0	22	.139
PIONEER BRAND 5482	6 *	19	12*	1.0	14	.122
MEAN OF TEST	7	30	19			
B.L.S.D. (KRATIO=50)	NS	12	NS			
C.V. (%)	26	21	18			

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.
**HIGHEST YIELDER.
*NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDER.

TABLE 49. PERFORMANCE OF LATE PLANTED MEDIUM MATURING SOYBEANS COMBINED OVER LOCATIONS.
THREE-YEAR AVERAGE 1981, 1982, AND 1983.

VARIETY	YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
NK S69-96	29	1.0	31	.133
DAVIS	28	1.0	29	.130
+N75-2213	27	1.0	32	.133
DELTAPINE 506	27	1.0	29	.132
CENTENNIAL	26	1.0	29	.131
COKER 156	24	1.0	26	.133
TWO-YEAR AVERAGE - 1982, 1983.				
NK S69-96	25	1.0	29	.129
+N75-2213	25	1.0	32	.128
DAVIS	24	1.0	28	.125
DELTAPINE 506	24	1.0	27	.126
CENTENNIAL	23	1.0	27	.125
JEFF	21	1.0	30	.131
+N77-114	21	1.0	25	.123
COKER 156	19	1.0	25	.129

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 50. PERFORMANCE OF LATE PLANTED MEDIUM MATURING SOYBEANS 1983.

VARIETY	JOHNSTON YIELD BUS/A	PASQUOTANK YIELD BUS/A	AVERAGE YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
NK S69-96	13**	37*	25**	1.0	24	.140
DELTAPINE 506	9*	35*	22*	1.0	25	.132
CENTENNIAL	10*	32*	21*	1.0	26	.131
+N75-2213	10*	32*	21*	1.0	27	.137
JEFF	11*	31*	21*	1.0	28	.142
RA 680	12*	28*	20*	1.0	24	.138
RA 604	10*	30*	20*	1.0	22	.140
+NAPB NS340-79	10*	29*	20*	1.0	26	.144
ASGROW A6520	10*	28*	19*	1.0	23	.134
DAVIS	8*	29*	19*	1.0	23	.131
+N79-491	6*	28*	17*	1.0	16	.137
KERSHAW	12*	19*	16*	1.0	33	.127
+N77-114	8*	22*	15*	1.0	22	.129
SUMTER	7*	22*	15*	1.0	21	.132
COKER 156	7*	22*	15*	1.0	21	.137
MEAN OF TEST	10	29	19			
B.L.S.D. (KRATIO=50)	NS	NS	NS			
C.V. (%)	38	24	17			

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.
**HIGHEST YIELDER.
*NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDER.

TABLE 51. PERFORMANCE OF LATE PLANTED LATE MATURING SOYBEANS COMBINED OVER LOCATIONS.
THREE-YEAR AVERAGE 1981, 1982, AND 1983.

VARIETY	YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
COKER 368	30	1.0	33	.134
AGRIPRO AP71	28	1.0	30	.131
BRAGG	27	1.0	34	.132
FOSTER	27	1.0	30	.135
JOHNSTON	26	1.0	28	.133
MCNAIR 700	26	1.0	27	.128
GASOY 17	25	1.0	31	.130
WILSTAR 790	25	1.0	31	.130
COKER 488	25	1.0	33	.137
COKER 317	25	1.0	30	.137
DELTAPINE 497	25	1.0	30	.134
RANSOM	24	1.0	31	.130
DUOCROP	24	1.0	31	.135
COKER 237	23	1.0	27	.132
HUTTON	22	1.0	30	.132
TWO-YEAR AVERAGE - 1982, 1983.				
COKER 368	29	1.0	30	.130
+NAPB 705	26	1.0	32	.124
BRAGG	24	1.0	32	.128
FOSTER	24	1.0	27	.130
AGRIPRO AP71	23	1.0	28	.127
DELTAPINE 417	23	1.0	30	.126
COKER 488	22	1.0	30	.134
COKER 317	22	1.0	27	.133
JOHNSTON	21	1.0	28	.129
WILSTAR 790	21	1.0	29	.125
MCNAIR 700	21	1.0	26	.124
GASOY 17	20	1.0	30	.123
ASGROW A7372	20	1.0	26	.125
DELTAPINE 497	19	1.0	26	.132
DUOCROP	19	1.0	29	.134
RANSOM	19	1.0	30	.126
HUTTON	19	1.0	29	.129
COKER 237	18	1.0	25	.127

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 52. PERFORMANCE OF LATE PLANTED LATE MATURING SOYBEANS 1983.

VARIETY	JOHNSTON YIELD BUS/A	PASQUOTANK YIELD BUS/A	AVERAGE YIELD BUS/A	LODGING	PLANT HEIGHT INCHES	MOISTURE
COKER 368	19*	30**	24**	1.0	27	.141
BRAGG	17*	28*	22*	1.0	33	.137
AGRIPRO AP71	20**	25*	22*	1.0	25	.135
AGRIPRO AP70	17*	26*	22*	1.0	29	.136
COKER 317	13*	29*	21*	1.0	27	.145
+NAPB 705	17*	26*	21*	1.0	26	.126
HUTTON	12	27*	19*	1.0	32	.138
DELTAPINE 417	13*	25*	19*	1.0	27	.130
BRAXTON	17*	20*	18*	1.0	26	.131
RA 701	8	28*	18*	1.0	22	.132
COKER 488	16*	20*	18*	1.0	24	.148
WILSTAR 790	8	27*	18*	1.0	26	.130
RANSOM	11	24*	18*	1.0	26	.133
MCNAIR 770	9	26*	18*	1.0	25	.136
MCNAIR 700	9	26*	17*	1.0	22	.129
NK S72-60	13*	22*	17*	1.0	24	.143
FOSTER	5	29*	17*	1.0	25	.141
DUOCROP	5	27*	16*	1.0	28	.146
GASOY 17	7	26*	16*	1.0	29	.126
COKER 237	9	21*	15*	1.0	23	.135
JOHNSTON	9	21*	15*	1.0	20	.139
ASGROW A7372	8	22*	15*	1.0	22	.131
DELTAPINE 497	8	20*	14*	1.0	23	.142
MEAN OF TEST	12	25	19			
B.L.S.D. (KRATIO=50)	8	NS	NS			
C.V. (%)	41	22	20			

+EXPERIMENTALS. SEED OF THESE VARIETIES MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.
**HIGHEST YIELDER.
*NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDER.

TABLE 53. FLOWERING AND POD MATURITY DATES BY MATURITY GROUPS - 1983.

VARIETY	FLOWER FS[1]	FLOWER DC[2]	POD MATURITY FS[1]	POD MATURITY DC[2]	VARIETY	FLOWER FS[1]	FLOWER DC[2]	POD MATURITY FS[1]	POD MATURITY DC[2]
					GROUP V				
ASGROW A5474	7-15	8-10	9-30	10-23	FFR 557	7-19	--	10-12	--
ASGROW A5618	7-16	8-13	10-4	10-27	FORREST	7-13	8-8	10-2	10-18
ASGROW A5939	7-13	8-9	10-2	10-23	PIONEER 5482	7-8	8-8	9-30	10-16
BAY	7-13	8-9	10-1	10-18	PIONEER 9561	7-14	8-10	10-3	10-18
BEDFORD	7-15	8-13	10-4	10-22	RA 502	7-15	--	10-5	--
COKER 355	7-15	8-12	10-5	10-22	SHILOH	7-15	8-13	10-10	10-23
DELTAPINE 105	7-15	8-12	10-6	10-27	WILSTAR 550	7-16	8-13	10-5	10-27
+DELTAPINE X529	7-15	--	10-3	--	+COKER 425	7-8	--	10-1	--
+DELTAPINE X532	7-15	--	10-4	--	+COKER 485	7-15	--	10-7	--
+DELTAPINE X544	7-10	--	10-1	--	+HBF 102-5	7-15	--	10-4	--
					GROUP VI				
ASGROW A6520	7-15	8-19	10-18	11-5	RA 604	7-12	8-19	10-18	11-6
CENTENNIAL	7-18	8-19	10-21	11-6	RA 606	7-21	--	10-17	--
COKER 156	7-19	8-21	10-23	11-8	RA 680	7-19	8-19	10-23	11-6
DAVIS	7-23	8-21	10-18	11-8	SUMTER	7-18	8-18	10-17	11-6
DELTAPINE 506	7-16	8-19	10-22	11-6	+HB-468-D1-6	7-22	--	10-22	--
FFR 666	7-15	--	10-19	--	+HB-DX6-6	7-20	--	10-18	--
FFR 668	7-21	--	10-24	--	+N75-2213	7-23	8-20	10-16	11-6
JEFF	7-19	8-19	10-22	11-7	+N77-114	7-12	8-15	10-6	10-24
KERSHAW	7-20	8-20	10-19	11-7	+N79-491	7-11	8-15	10-7	10-23
NK S69-96	7-20	8-20	10-22	11-9	+NAPB NS340-79	7-19	8-19	10-19	11-6
					GROUPS VII AND VIII				
AGRIPRO AP 70	--	8-23	--	11-8	GASOY 17	7-24	8-20	10-29	11-12
AGRIPRO AP 71	7-22	8-21	10-29	11-12	HUTTON	7-23	8-21	10-27	11-10
ASGROW A7372	7-21	8-20	10-24	11-8	JOHNSTON	7-20	8-20	10-28	11-10
BRAGG	7-20	8-20	10-24	11-8	MCNAIR 700	7-18	8-20	10-22	11-6
BRAXTON	7-20	8-20	10-27	11-10	MCNAIR 770	7-20	8-20	10-28	11-10
COKER 237	7-21	8-20	10-24	11-10	NK S72-60	7-20	8-20	10-22	11-9
COKER 317	7-26	8-22	10-28	11-10	RA 702	7-20	8-20	10-25	11-10
COKER 368	8-2	8-22	10-30	11-12	RA 801	7-21	--	10-28	--
COKER 488	7-29	8-22	10-29	11-14	RANSOM	7-19	8-20	10-24	11-8
DELTAPINE 417	7-31	8-23	10-31	11-10	WILSTAR 790	7-21	8-20	10-27	11-10
DELTAPINE 497	7-29	8-20	10-27	11-10	+HB-507-D1-7	7-27	--	10-30	--
DUOCROP	--	8-20	--	11-10	+NAPB 705	7-21	8-20	10-29	11-10
FOSTER	7-25	8-24	10-27	11-12					

[1] FULL SEASON DATA TAKEN AT ROBESON COUNTY LOCATION.

[2] DOUBLE-CROP DATA TAKEN AT JOHNSTON COUNTY LOCATION.

+EXPERIMENTALS. SEED OF THESE MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 54. OIL PERCENTAGE ANALYSES AND SEED SIZE.

VARIETY	OIL %	SEED[1/] SIZE GRAMS/100	VARIETY	OIL %	SEED[1/] SIZE GRAMS/100
			GROUP V		
ASGROW A5474	21.8	10.7	FFR 557	22.3	11.0
ASGROW A5618	21.7	12.7	FORREST	21.9	10.4
ASGROW A5939	21.5	11.7	PIONEER BRAND 5482	21.2	11.8
BAY	23.2	12.4	PIONEER BRAND 9561	21.9	12.2
BEDFORD	21.6	9.6	RA 502	21.3	10.4
COKER 355	21.6	10.9	SHILOH	21.6	10.5
DELTAPINE 105	21.4	11.5	WILSTAR 550	21.5	10.0
+DELTAPINE X529	22.4	12.1	COKER 425	21.3	11.7
+DELTAPINE X532	21.8	11.8	COKER 485	21.2	14.2
+DELTAPINE X544	22.0	12.7	*HBF-102-5	21.2	12.5
			GROUP VI		
ASGROW A6520	21.7	11.0	RA 604	21.1	11.8
CENTENNIAL	21.0	11.0	RA 606	21.6	10.8
COKER 156	22.1	10.6	RA 680	21.9	12.4
DAVIS	21.3	11.7	SUMTER	20.9	11.1
DELTAPINE 506	22.2	11.6	*HB-468-01-6	21.6	13.4
FFR 666	21.6	12.4	*HB-0X6-6	21.3	11.2
FFR 668	21.5	11.6	*N75-2213	21.8	12.8
JEFF	21.7	12.0	*N77-114	22.5	10.6
KERSHAW	21.7	12.1	*N79-491	22.9	10.4
NK S69-96	21.2	11.2	*NAPB NS 340-79	20.8	12.6
			GROUPS VII AND VIII		
AGRIPRO AP71	22.0	11.9	HUTTON	20.1	11.5
ASGROW A7372	21.2	13.1	JOHNSTON	22.1	15.3
BRAGG	22.8	12.6	MCNAIR 700	22.5	13.8
BRAXTON	21.4	12.8	MCNAIR 770	21.8	12.8
COKER 237	21.4	13.6	NK S72-60	23.5	11.7
COKER 317	22.5	12.3	RA 702	20.8	11.2
COKER 368	21.7	14.1	RA 801	20.9	11.8
COKER 488	22.6	13.2	RANSOM	23.4	12.2
DELTAPINE 417	20.5	14.5	WILSTAR 790	21.4	11.8
DELTAPINE 497	22.0	10.7	*HB-507-D1-7	22.5	15.1
FOSTER	22.8	11.5	*NAPB 705	20.8	11.8
GASOY 17	21.0	13.3			

[1/] DATA TAKEN AT ROBESON COUNTY LOCATION
+EXPERIMENTAL. SEED OF THESE MAY OR MAY NOT BE AVAILABLE IN 1984 AND MAY HAVE A DIFFERENT DESIGNATION.