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# Measured Crop Performance Corn and Corn Silage 1995

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PERFORMANCE OF CORN AND CORN SILAGE  
IN NORTH CAROLINA

INTRODUCTION

With the large number of commercially available and prospective hybrids of corn, 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.<sup>1</sup>

This report is concerned with corn hybrids in all production areas of the state. The second section deals with corn silage. Both sections are complete in that they contain information on experimental procedure, location of the tests, a discussion of the data for 1995,<sup>2</sup> 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.

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<sup>1</sup>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, Dwight Parrish, Ken Barnes, Johnny Denton, Tracy Wadsworth, Phil Johnson, and Mark Langdon assisted in conducting these tests. Carey Parsons prepared the text for this bulletin.

<sup>2</sup>Statistical analyses were made in the Statistical Laboratory by Mrs. Sandra Donaghy.

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

### Comparing Hybrids

Performance of a hybrid cannot be tested with absolute precision. Although the tests are conducted in a uniform manner, as much as possible, uncontrollable variability exists among experimental plots due to soil type, fertility, moisture, insects, diseases, and other sources of variation. Because this variability exists, statistics are used as a tool to determine differences among hybrids. The size of chance variation is listed in each table as the L.S.D. (least significant difference) and those hybrids which do not differ by more than the L.S.D. are statistically not different. Those hybrids 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.

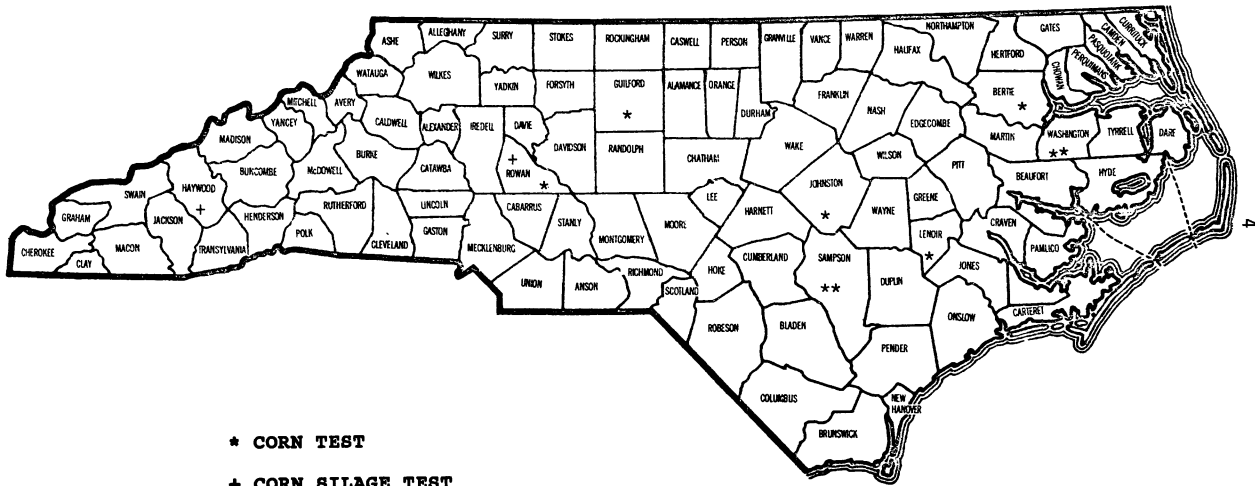
The coefficient of variability (C.V.) is listed as a general indicator of population variability; it does not, however, always indicate level of precision. The coefficient of determination ( $R^2$ ) is a better measure of the level of precision because it indicates the amount of variation accounted for in the trial. The higher the  $R^2$  value, the more precise the trial. Thus, relative precision among various trials can be compared. The standard error of the mean (s.e.) is listed as a general indicator of precision since it

reveals how well the true mean was estimated. The formula for the s.e. is the square root of the error variance divided by the square root of the number of replications. The error degrees of freedom (Error d.f.) used to test varieties or hybrids is listed along with the mean of the test.

Hybrid 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 or more than one year at a particular location to obtain a more accurate picture of relative hybrid performance. An effort has been made to facilitate comparisons among locations and across years in this report.

The hybrids 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 its yield. The relative performance of a hybrid across locations within an area can be easily evaluated by going across the table; those hybrids 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 hybrid when first determining if it is adapted to his farm.



\* CORN TEST  
 + CORN SILAGE TEST



## COOPERATORS 1995

Corn

Bertie County, Peanut Belt Research Station, Lewiston, N.C.  
Steve Barnes, Superintendent.

Guilford County, John and Lawrence Ward, McLeansville, N.C.

Johnston County, San Wood Farms, Route 2, Four Oaks, N.C.

Lenoir County, Lower Coastal Plain Tobacco Research Station,  
Kinston, N.C., Sandy Barnes, Superintendent.

Rowan County, Piedmont Research Station, Salisbury, N.C.,  
Raymond Coltrain, Superintendent.

Sampson County, Horticultural Crops Research Station,  
Clinton, N.C., Fred Cumbo, Superintendent.

Washington County, Tidewater Research Station, Plymouth, N.C.,  
John Smith, Superintendent.

Corn Silage

Haywood County, Mountain Research Station, Waynesville, N.C.  
Bill Teague, Superintendent.

Rowan County, Piedmont Research Station, Salisbury, N.C.  
Raymond Coltrain, Superintendent.

## 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. The performance of hybrids across the state in three geographic regions 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 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 population and maturity range desired. Because of this, some hybrids may not appear to be in the correct maturity group.

Agencies sponsoring entries in the 1995 tests are shown in Table 1.

Table 1. Name, contact person, and address of sponsoring agencies in the 1995 North Carolina Corn Performance Trials along with designation used to identify the hybrids.

Agency and Contact Person	Address	Designation
<u>AgraTech Seeds, Inc.</u> Scott Williams	5559 N. 500W McCordsville, IN 46055	AgraTech 709 787 888 967

Table 1. (Continued)

Agency and Contact Person	Address	Designation
<u>Asgrow Seed Company</u> Pat McCord	2605 East Kilgore Kalamazoo, MI 49002-1782	Asgrow RX 897 RX 938
<u>Augusta Seed</u> Dennis Rawley	Route 2, Box 16B Mt Solon, VA 22843	Augusta X 384 X 497 X 552 A 504 A 50505 A 508 A 513 A 518 A 613AA A 703 A 717 A 813 Exp. 283 Exp. 285 Exp. 286 Exp. 289 Exp. 520 Exp. 885 Exp. 2112 Exp. 2151 Exp. 60783
<u>Beachley-Hardy</u> John Van De Crommart	P. O. Box 3147 Shiremanstown, PA 17011	X1091 X1132 X1162 X1261 BH4854 BH4924
<u>Cargill Seeds</u> Jack Carlson	P. O. Box 5645 Minneapolis, MN 55440	Cargill 7557 8327 8527A 9027

Table 1. (Continued)

Agency and Contact Person	Address	Designation
<u>Ciba Seeds</u> Gordon Johnson	P. O. Box 18300 Greensboro, NC 27419	Ciba 4394 4575 4631 4714 6203X 7088X
<u>DeKalb Genetics Corp.</u> Diane Freeman	3100 Sycamore Road DeKalb, IL 60115	DeKalb DK 626 668 683 706 714 743
<u>Delta &amp; Pine Land Co.</u> John Thomas	P. O. Box 157 Scott, MS 38772	Deltapine DP 4653 5750
<u>Doebler's PA Hybrids</u> Bill Camerer	RR 1, Box 424 Jersey Shore, PA 17740	Doebler's 82XP 737XP
<u>Hyperformer</u> Al Hoggard	One Hy Crop Row Memphis, TN 38120	Hyperformer AP674 HS 9773 HS 9822 HS 9843 HS 9944 HS 9977 HY 9899V HY 9919
<u>Maize Genetic Resources, Inc.</u> James W. Friedrich	10570 Highway 50 North Angier, NC 27501	MGR814 MGR941
<u>Mycogen Plant Sciences</u> Jimmy Barber	624 27th Street Lubbock, TX 79404	7250 cb 7660 7885 8240 8460 9220

Table 1. (Continued)

Agency and Contact Person	Address	Designation
<u>Northrup King Company</u> Carroll Oakes	P. O. Box 249 Grifton, NC 28530	N6822 N7590 N7989 N8656 N8811 X9074 XR8355
<u>Pioneer Hi-Bred International, Inc.</u> Dennis McCoy	800 Tiffany Blvd. Suite 200 Rocky Mount, NC 27804	Pioneer X1134M X1134N X1134T X1184M X1234F 3085 3130 3140 3154 3156 3163 3165 3167 3223 3245 3394
<u>Southern States Coop.</u> Jack Grayson	3593 Fuqua Road Rockfield, KY 42274	SS 656 793 827 943
<u>United Agri Products</u> Harold Bailey	P. O. Box 534 Athens, AL 35611	DynaGro 5510  5625
<u>Vigoro Industries</u> G. C. (Conrad) Lavender	P. O. Box 156 Jefferson, GA 30549	V1165 V1235 Exp. V1995

**Field Plot Technique:** Tests were planted at seven locations across the state. The various locations are shown in Figure 1. In the Tidewater two tests were located in Washington County--one on an organic soil (HM) and one on a mineral soil. In the Coastal Plain region, four tests were conducted in Bertie, Johnston, Lenoir, and Sampson counties. Two tests were located in Sampson county; one was planted earlier than normal and served as a test for seedling vigor, and one was planted at a date more typical of corn planting for the area. In the Piedmont, tests were located in Guilford and Rowan counties. Early-maturing corn hybrids (less than 115 days to maturity) are included in the Coastal Plain and Tidewater areas of the state. The medium maturing (approximately 115 to 125 days to maturity) and the late-maturing (over 125 days to maturity) hybrids are included in all trials. It is important to remember that these are loose groupings, i.e some hybrids may easily fit into either of two maturity groups due to their being on the border line. Table 2 lists the cultural practices used and Table 3 lists the soil tests results. In field design a randomized block was used on all maturity groups. Each plot consisted of two rows 22 feet long with a 30, 38, or 36" row width. The two rows were harvested for yield. Alley width was six feet.

In 1995, all tests were planted to a stand at a rate of the desired plant population.

**Seasonal Conditions:** Planting was on time for most locations in 1995 (Table 2). The seedling vigor test was planted March 16 with sufficient cool weather to stress the seedlings so that the

corn hybrids could be rated for the trait. Rainfall was above normal for June at all locations (see accompanying graphs) followed by less than normal rainfall in July and August. Corn harvest was completed earlier than normal due to the dry weather and subsequent rapid dry down. The Guilford county location was sprayed for cereal leaf beetles in June.

**Data:** Data were collected on yield, moisture, lodging, ear height, and stands. All plot yields were adjusted to 15.5% moisture. 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. Stand counts were reported in plants/acre.

**Results:** Seedling vigor ratings are listed as percent of desired stand and shown in Tables 4, 5, and 6 for early, medium, and late-maturing corn hybrids respectively. Also listed in the tables are standard germination data as well as cold test germination data. Field conditions in 1995 resulted in a greater range of seedling vigor than either the standard germination or cold test. All hybrids in all testing regions were included in the seedling vigor test.

Data for the Tidewater region are reported in Tables 7-21. These include multi-year data across soil types by maturity and multi-year data by soil type and maturity as well as 1995 data. Data listed HM indicate the test was on an organic soil. Yields were below average and tended to decline from early-maturing to late-maturing hybrids.

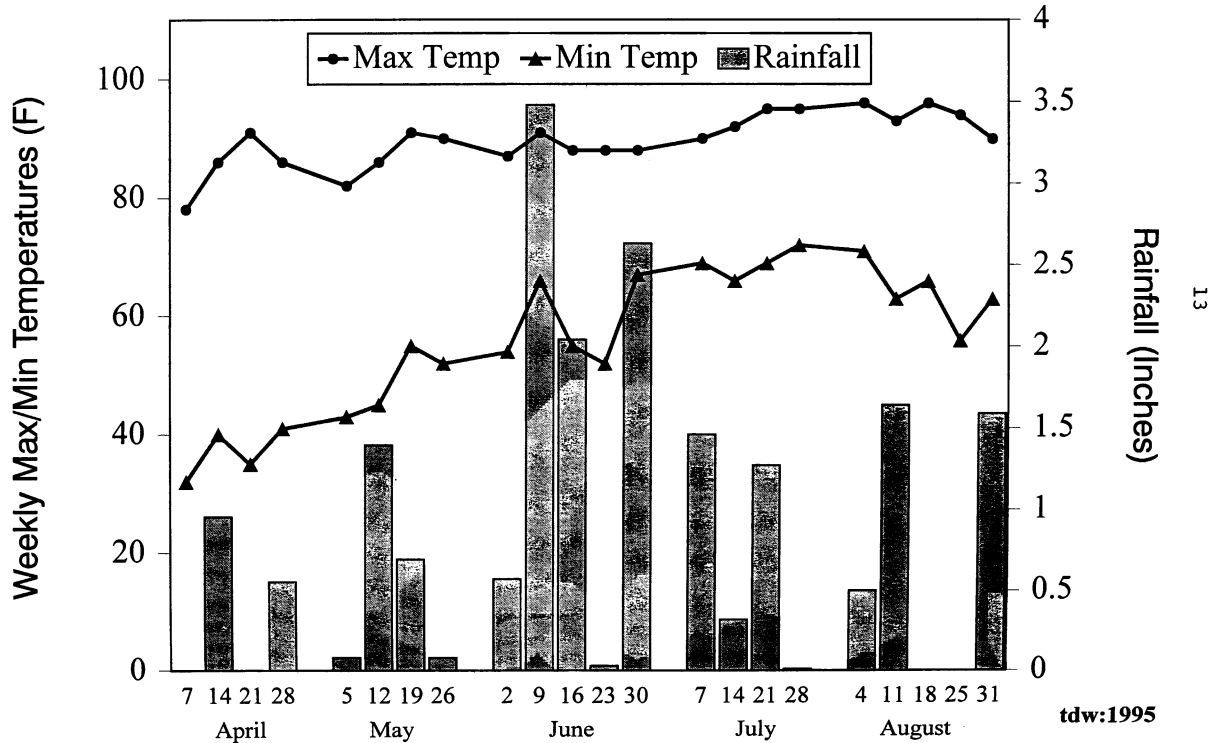
Data for the Coastal Plain region include four locations and are reported in Tables 22-42. These include multi-year data across locations by maturity and multi-year data by location and maturity as well as 1995 data. Yields were below-average except for Lenoir and Sampson counties which were the earlier-planted locations. Again, later-maturing hybrids tended to yield less than earlier-maturing hybrids as a group.

Data for the Piedmont region include two locations and two maturity groups and are reported in Tables 43-52. These include multi-year data across locations by maturity and multi-year data by location and maturity as well as 1995 data. Again, yields tended to be higher for medium-maturing hybrids than the later-maturing hybrids as a group.



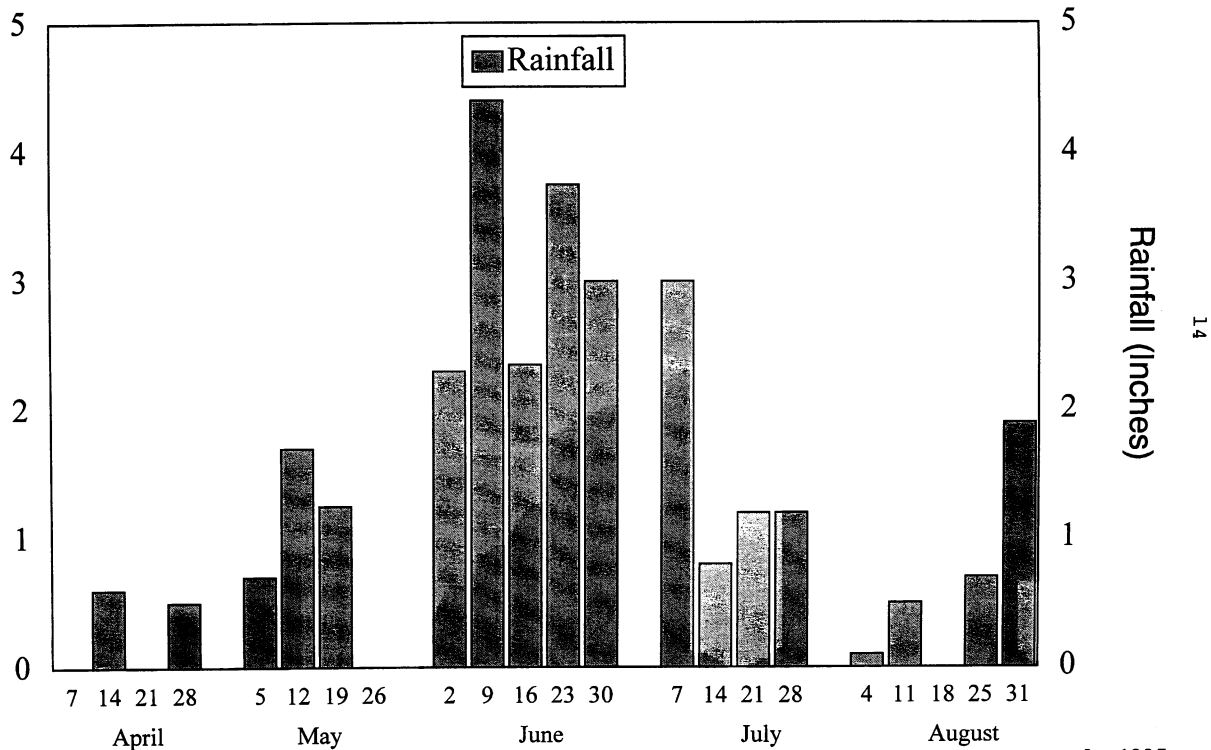
# Bertie Co. Weekly Weather Data

(April - August 1995)



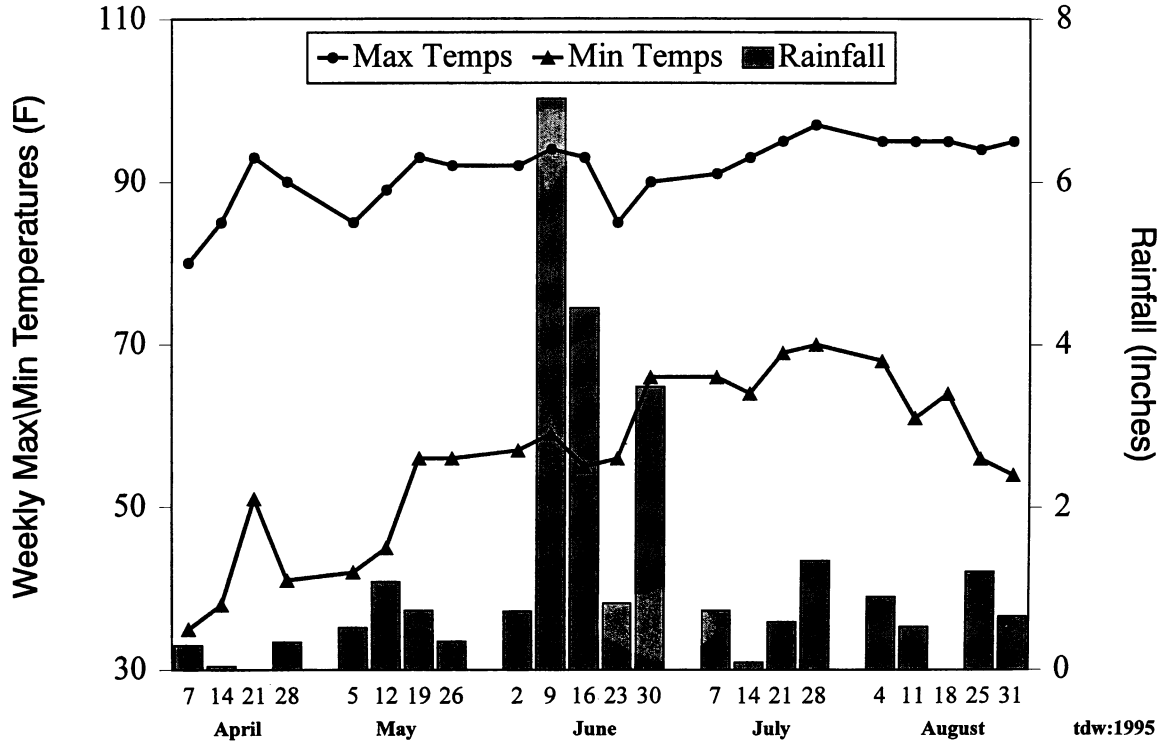
# Johnston Co. Weekly Weather Data

(April - August 1995)



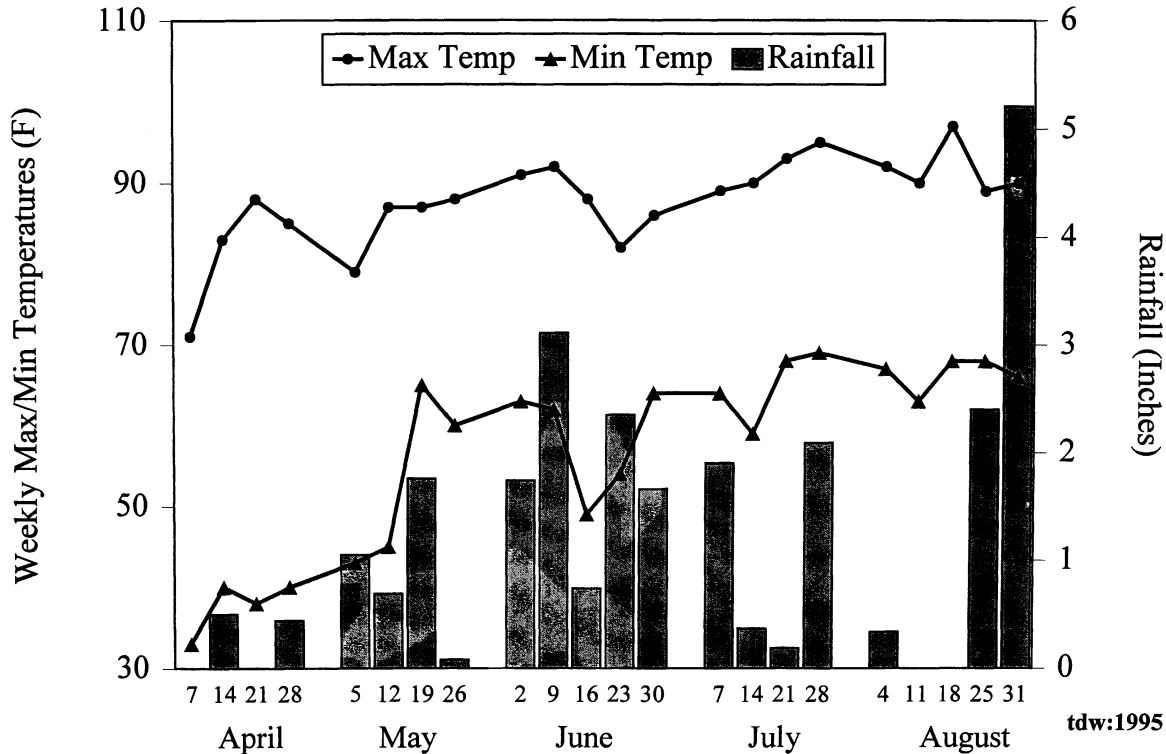
# Lenoir Co. Weekly Weather Data

(April - August 1995)



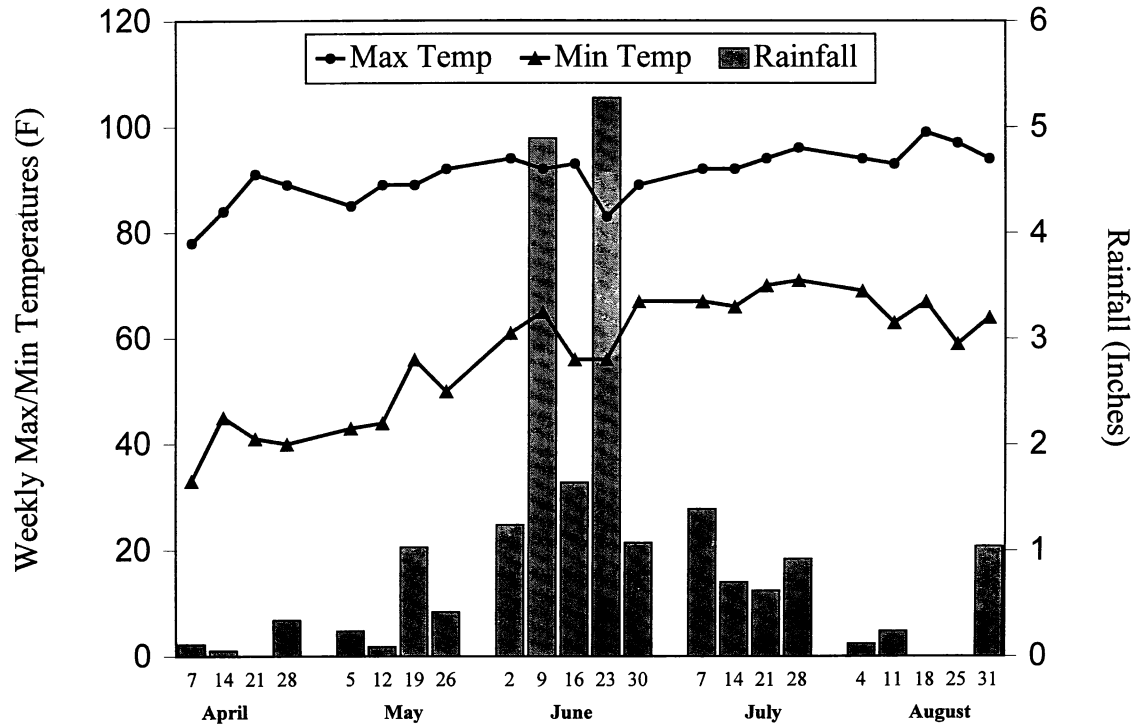
# Rowan Co. Weekly Weather Data

## (April - August 1995)



# Sampson Co. Weekly Weather Data

(April - August 1995)



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# Washington Co. Weekly Weather Data

(April - August 1995)

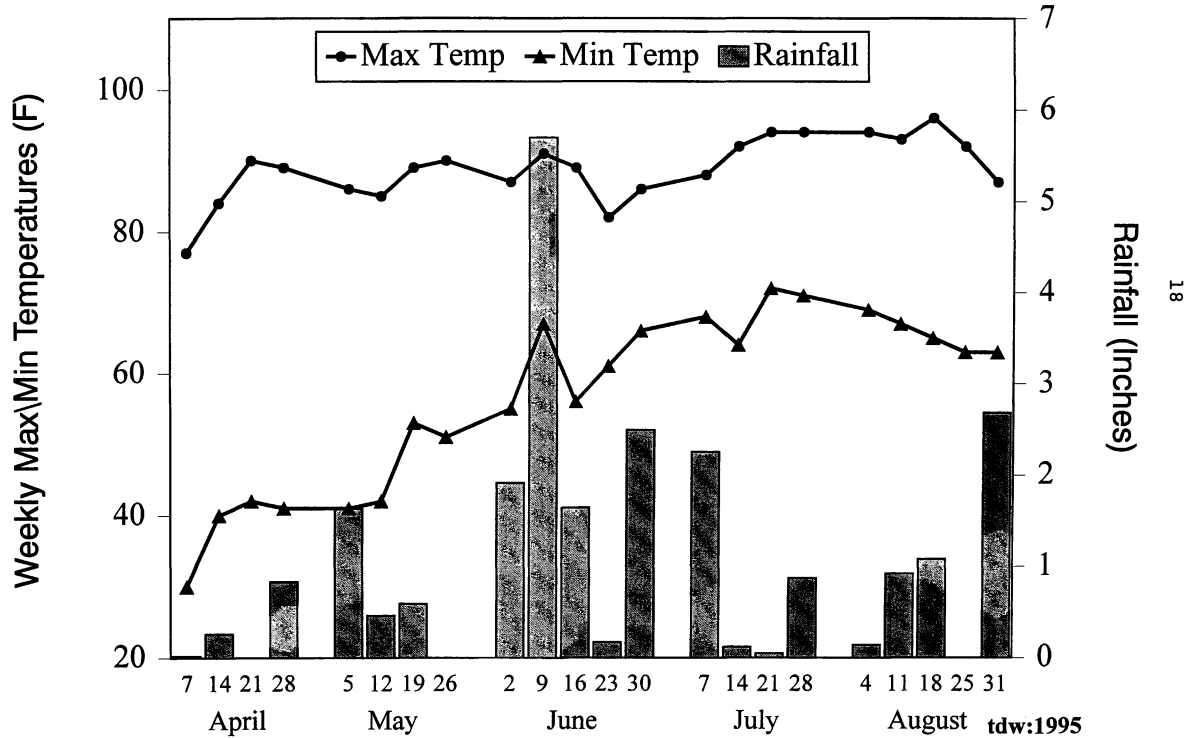


Table 2. Cultural practices used at each corn test location - 1995.

Location by County	Fertilizer Lbs/A and Grade	Sidedressing Lbs N/A	Date of Planting	Date of Harvest	Soil Type
<u>Bertie</u>	100 0-0-60 150 18-46-0	136	April 10	August 23	Norfolk sandy loam
<u>Guilford</u>	400  10-20-20		April 17	September 6	Enon fine sandy loam
<u>Johnston</u>	200 0-0-60	175	March 29	August 30	Norfolk sandy loam
<u>Lenoir</u>	300 10-20-20	165	March 28	August 21	Goldsboro sandy loam
<u>Rowan</u>	400 10-20-30	145	April 27	September 5	Hiwassee clay
<u>Sampson</u>	500 10-10-10	120	March 29	August 22	Norfolk, Orangeburg, and Toisnot loamy sand
<u>Washington</u>	150 34-0-0	90	April 11	August 24	Portsmouth fine sandy loam
<u>Washington HM</u>	150 0-46-0 150 34-0-0	90	April 11	August 24-25	Cape Fear loam

Table 3. Soil test results, corn - 1995.

Location by County	HM ‰	W-V	CEC	BS ‰	Ac	pH	P-I	K-I	Ca ‰	Mg ‰	Mn-I	Zn-I	Cu-I
<u>Bertie</u>	0.3	1.26	2.3	83	0.4	6.0	59	36	64.1	11.1	48	60	136
<u>Guilford</u>	0.4	1.24	9.2	96	0.4	6.5	166	174	56.3	29.9	625	601	278
<u>Johnson</u>	1.0	1.09	3.8	68	1.2	5.7	53	86	42.2	14.8	63	85	64
<u>Lenoir</u>	1.0	1.18	4.1	80	0.8	6.1	166	80	49.3	20.2	33	45	44
<u>Rowan</u>	0.3	0.94	5.3	62	2.0	5.4	51	54	40.0	16.8	625	46	116
<u>Sampson</u>	0.7	1.36	3.5	66	1.2	5.7	147	60	45.5	10.8	86	31	48
<u>Washington</u>	3.2	1.15	8.8	82	1.6	6.0	94	98	55.7	20.5	16	28	44
<u>Washington HM</u>	5.7	1.09	9.3	78	2.0	5.7	48	120	47.3	24.7	21	32	30



TABLE 4. PERCENT OF DESIRED STAND FOR EARLY-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	1995	COLD TEST %	GERMINATION %
Agratech 709	82	99	99
Agratech 787	92	97	98
Asgrow RX897	84	100	98
Cargill 7557	82	99	98
Ciba 4394	81	99	100
Ciba 4575	74	97	99
DeKalb DK626	83	98	98
DeKalb DK66B	80	99	98
Doebler's 737XP	75	85	97
Dynagro 5510	62	97	98
Hyperformer AP 674	76	96	98
Hyperformer HS 9773	70	94	96
Hyperformer HS 9822	69	91	100
Hyperformer HS 9843	81	100	100
Mycogen 7250cb	64	95	97
Mycogen 7660	82	99	98
Mycogen 7885	69	93	97
NK N6822	67	94	99
NK N7590	77	96	99
Pioneer 3223	85	99	98
Pioneer 3245	82	99	95
Pioneer 3394	84	98	99
+Pioneer X1134N	85	96	98
+Pioneer X1134T	32	79	93
SS 656	75	98	99
SS 793	60	93	98
Vigoro V1165	81	99	97
<b>Mean</b>	<b>75</b>		
<b>R<sup>2</sup> (%)</b>	<b>72</b>		
<b>C.V. (%)</b>	<b>13.5</b>		
<b>BLSD (K-50)</b>	<b>17</b>		
<b>s.e.</b>	<b>5.9</b>		
<b>Error d.f.</b>	<b>52</b>		

+EXPERIMENTAL. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE NEXT YEAR AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 5. PERCENT OF DESIRED STAND FOR MEDIUM-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	1995	COLD TEST %	GERMINATION %
Agratech 888	66	96	95
Agratech 967	81	100	98
Asgrow RX 983	67	93	95
Cargill 8327	84	100	98
Cargill 8527A	79	98	93
Ciba 4631	68	95	100
+Ciba 6203X	89	97	98
DeKalb DK683	67	98	98
DeKalb DK706	85	99	98
DeKalb DK714	77	97	98
DeKalb DK743	78	99	99
Deltapine 4653	83	99	99
Deltapine DP5750	52	94	98
Doebler's 82XP	42	83	96
Hyperformer HS 9944	72	94	100
Hyperformer HY 9899V	77	100	97
+Hyperformer HYX 58104	81	96	92
Mycogen 8240	70	96	98
Mycogen 8460	75	97	98
NK N7989	70	97	99
NK N8656	76	96	100
+NK XR8355	83	97	99
Pioneer 3130	80	97	98
Pioneer 3140	83	98	99
Pioneer 3154	72	96	97
Pioneer 3156	90	98	98
Pioneer 3163	82	99	98
+Pioneer X1134M	89	99	99
+Pioneer X1184M	79	97	98
SS 827	81	99	100
Vigoro V1235	77	98	92
+Vigoro X1995	73	97	98
<b>Mean</b>	<b>76</b>		
R <sup>2</sup> (%)	74		
C.V. (%)	9.9		
B LSD (K-50)	12		
s.e.	4.3		
Error d.f.	62		

+EXPERIMENTAL. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE NEXT YEAR AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 6. PERCENT OF DESIRED STAND FOR LATE-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	1995	COLD TEST %	GERMINATION %
Cargill 9027	76	98	99
Ciba 4714	82	97	98
+Ciba 7088X	68	98	100
Hyperformer HS 9977	89	95	99
Hyperformer HY 9919	72	99	98
MGR 814	82	97	98
MGR 941	64	90	98
Mycogen 9220	48	88	96
NK N8811	70	98	96
+NK X9074	46	96	97
Pioneer 3085	87	98	98
Pioneer 3165	75	98	99
Pioneer 3167	76	98	99
+Pioneer X1234F	94	98	99
SS 943V	76	97	97
<b>Mean</b>	<b>74</b>		
R <sup>2</sup> (%)	81		
C.V. (%)	11.6		
BLSD (K-50)	14		
s.e.	4.9		
Error d.f.	28		

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

TABLE 7. DATA COMBINED OVER LOCATIONS  
FOR EARLY-MATURING CORN HYBRIDS IN TIDEWATER AREA.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
THREE YEAR AVERAGE - 1993, 1994, 1995					
Pioneer 3245	117	.174	0	40	20,282
Hyperformer HS 9773	112	.175	1	47	19,226
Augusta A513	111	.172	1	43	22,445
SS 793	110	.173	0	43	21,289
Pioneer 3394	108	.161	0	41	20,392
Dyna-Gro 5510	108	.178	0	39	20,830
AgraTech 787	107	.170	0	47	23,701
Hyperformer HS 9843	106	.173	0	48	21,897
Mycogen 7885	102	.171	0	46	21,289
Asgrow RX897	100	.172	0	46	20,073
TWO YEAR AVERAGE - 1994, 1995					
Pioneer 3245	125	.171	0	39	20,123
AgraTech 787	115	.161	1	44	23,217
Augusta A513	113	.164	1	40	22,455
Hyperformer HS 9822	112	.163	0	43	21,438
Hyperformer HS 9843	112	.165	0	47	21,677
NK N6822	111	.154	1	39	23,711
Hyperformer HS 9773	111	.166	1	46	18,732
SS 793	110	.168	1	41	21,872
Dyna-Gro 5510	108	.171	1	38	20,123
Ciba 4575	108	.161	0	43	22,515
Mycogen 7885	108	.165	0	44	19,824
Pioneer 3394	107	.156	1	38	20,257
Augusta A505DS	106	.164	0	48	23,875
Asgrow RX897	106	.167	0	43	19,495
DeKalb DK668	99	.167	0	45	23,217

TABLE 8. DATA COMBINED OVER SOIL TYPES FOR TIDEWATER  
EARLY-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
Pioneer 3245	124	.172	0	37	20,631
+Pioneer X1134N	123	.177	0	40	20,362
AgraTech 709	119	.158	1	36	23,771
DeKalb DK626	118	.153	0	43	23,830
NK N7590	118	.165	0	39	24,608
+Augusta X2112	115	.181	0	36	24,638
Ciba 4394	113	.147	0	38	25,176
Pioneer 3394	112	.157	0	35	20,751
+Augusta X885	112	.154	0	34	25,983
Pioneer 3223	112	.182	0	42	19,943
Doebler's 737XP	111	.163	0	34	23,023
AgraTech 787	109	.167	0	40	24,668
NK N6822	109	.155	0	40	23,531
SS 793	109	.178	0	39	22,963
Augusta A513	108	.169	0	38	23,591
Augusta A813	107	.176	0	36	22,634
+Augusta X384	107	.171	0	34	26,252
Hyperformer HS 9843	107	.175	0	46	23,113
Hyperformer HS 9773	106	.173	0	44	19,315
+Augusta X520	106	.176	0	44	25,415
Augusta A613AA	105	.171	0	41	24,967
+Augusta X286	105	.146	0	41	25,714
+Augusta X2151	104	.176	0	38	24,967
Hyperformer HS 9822	104	.168	0	39	21,618
Augusta 6497	102	.147	0	39	24,817
Dyna-Gro 5510	102	.179	0	37	21,438
+Augusta X285	101	.164	0	28	24,279
Augusta A717	101	.180	0	42	23,561
Augusta A508	99	.152	1	40	25,923
Mycogen 7885	99	.170	0	41	19,614
+Beachley-Hardy X1132	99	.149	0	39	21,498
Ciba 4575	98	.166	0	40	24,428
Hyperformer AP 674	96	.179	0	46	22,216
+Augusta X552	96	.173	0	46	25,893
SS 656	95	.158	0	39	23,083
+Beachley-Hardy X1091	95	.153	0	36	23,561
+Pioneer X1134T	95	.187	0	34	17,521
Mycogen 7250cb	93	.166	0	34	19,734
Mycogen 7660	93	.165	0	41	21,199
Augusta A505DS	93	.173	0	44	25,684
Asgrow RX897	93	.177	0	40	18,957
+Augusta X289	93	.185	0	36	26,820
+Augusta X283	92	.167	0	34	24,757
Augusta A504	92	.175	0	41	24,099
Cargill 7557	90	.159	0	43	23,202
Augusta A518	89	.186	0	36	24,817
Augusta A60783	84	.163	2	38	25,176
DeKalb DK668	82	.177	0	41	23,830

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1996 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 9. INDIVIDUAL SOIL TYPE DATA FOR  
TIDEWATER EARLY-MATURING CORN  
HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	MINERAL SOIL	ORGANIC SOIL	MEAN
Pioneer 3245	121*	127*	124**
+Pioneer X1134N	123*	123*	123*
AgraTech 709	107	130**	119*
DeKalb DK626	122*	114	118*
NK N7590	121*	114	118*
+Augusta X2112	113*	116*	115*
Ciba 4394	117*	108	113
Pioneer 3394	115*	110	112
+Augusta X885	116*	108	112
Pioneer 3223	115*	108	112
Doebler's 737XP	124**	98	111
AgraTech 787	110	109	109
NK N6822	112*	105	109
SS 793	112*	105	109
Augusta A513	118*	98	108
Augusta A813	113*	102	107
+Augusta X384	107	107	107
Hyperformer HS 9843	102	111	107
Hyperformer HS 9773	108	104	106
+Augusta X520	100	112	106
Augusta A613AA	105	106	105
+Augusta X286	108	102	105
+Augusta X2151	111*	98	104
Hyperformer HS 9822	110	98	104
Augusta 6497	105	100	102
Dyna-Gro 5510	108	96	102
+Augusta X285	105	97	101
Augusta A717	103	99	101
Augusta A508	99	99	99
Mycogen 7885	100	97	99
+Beachley-Hardy X1132	101	96	99
Ciba 4575	91	105	98
Hyperformer AP 674	96	96	96
+Augusta X552	103	89	96
SS 656	101	89	95
+Beachley-Hardy X1091	103	87	95
+Pioneer X1134T	99	91	95
Mycogen 7250cb	102	84	93
Mycogen 7660	93	93	93
Augusta A505DS	96	89	93
Asgrow RX897	96	89	93
+Augusta X289	90	95	93
+Augusta X283	93	91	92
Augusta A504	87	96	92
Cargill 7557	85	95	90
Augusta A518	93	86	89
Augusta A60783	90	78	84
DeKalb DK668	86	77	82
<b>Mean</b>	<b>105</b>	<b>101</b>	<b>103</b>
C.V. (%)	11.6	13.3	6.3
BLSD (K-50)	14	16	11
s.e.	5.5	6.0	2.0
R <sup>2</sup> (%)	67.1	69.9	83.0
Error d.f.	184	183	47

\*\*HIGHEST YIELDER. \*NOT SIGNIFICANTLY  
DIFFERENT FROM HIGHEST YIELDER.  
\*EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR  
MAY NOT BE AVAILABLE IN 1996 AND MAY HAVE A  
DIFFERENT DESIGNATION.

TABLE 10. ONE, TWO AND THREE-YEAR AVERAGES FOR EARLY-MATURING CORN HYBRIDS AT WASHINGTON COUNTY (MINERAL SOIL).

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
Pioneer 3245	121	120	122
Hyperformer HS 9822	110	114	
Augusta A513	118	114	119
Hyperformer HS 9773	108	111	115
Dyna-Gro 5510	108	111	119
NK N6822	112	109	
Hyperformer HS 9843	102	109	114
AgraTech 787	110	108	110
SS 793	112	108	110
Pioneer 3394	115	107	113
Mycogen 7885	100	106	111
Asgrow RX897	96	105	107
Ciba 4575	91	104	
Augusta A505DS	96	103	
DeKalb DK668	86	99	

TABLE 11. ONE, TWO AND THREE-YEAR AVERAGES FOR EARLY-MATURING CORN HYBRIDS AT WASHINGTON COUNTY (ORGANIC SOIL).

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
Pioneer 3245	127	131	112
AgraTech 787	109	122	103
Hyperformer HS 9843	111	115	98
NK N6822	105	113	
SS 793	105	112	110
Ciba 4575	105	112	
Augusta A513	98	111	103
Hyperformer HS 9773	104	111	109
Hyperformer HS 9822	98	109	
Mycogen 7885	97	109	93
Augusta A505DS	89	109	
Pioneer 3394	110	107	104
Asgrow RX897	89	106	93
Dyna-Gro 5510	96	106	97
DeKalb DK668	77	99	

TABLE 12. DATA COMBINED OVER LOCATIONS  
FOR MEDIUM-MATURING CORN HYBRIDS IN TIDEWATER AREA.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
THREE YEAR AVERAGE - 1993, 1994, 1995					
DeKalb DK714	121	.183	1	49	23,362
DeKalb DK683	120	.176	1	46	22,804
Pioneer 3163	113	.181	1	44	18,907
Ciba 4631	110	.185	0	46	22,425
Cargill 8527A	108	.185	0	46	22,774
Hyperformer HY 9899V	106	.195	2	49	19,425
Cargill 8327	105	.176	0	50	23,133
Pioneer 3140	105	.191	0	48	18,568
Deltapine 4653	104	.181	1	42	22,465
AgraTech 888	102	.186	0	43	22,335
Mycogen 8240	102	.178	1	50	22,355
Deltapine DP 5750	101	.188	1	44	21,239
Hyperformer HS 9944	100	.191	0	45	21,658
TWO YEAR AVERAGE - 1994, 1995					
SS 827	123	.172	1	40	23,711
DeKalb DK714	121	.171	1	47	22,903
DeKalb DK683	120	.167	1	45	22,051
AgraTech 967	117	.185	1	38	21,932
Pioneer 3163	117	.172	0	41	18,418
DeKalb DK706	117	.177	0	45	23,098
Hyperformer HY 9899V	114	.185	1	48	21,214
Cargill 8327	113	.169	0	48	22,903
Deltapine 4653	110	.170	1	39	22,485
Asgrow RX938	109	.194	1	43	17,043
Mycogen 8240	109	.170	1	47	20,616
Ciba 4631	107	.177	0	42	22,649
Cargill 8527A	107	.178	1	43	22,649
Deltapine DP 5750	105	.180	1	42	20,526
Pioneer 3140	104	.185	1	46	18,104
AgraTech 888	103	.178	0	40	21,393
Hyperformer HS 9944	102	.184	0	41	21,139



TABLE 13. DATA COMBINED OVER SOIL TYPES FOR TIDEWATER  
MEDIUM-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
DeKalb DK683	106	.164	0	42	22,604
+Ciba 6203X	106	.173	0	44	25,355
Mycogen 8460	105	.193	0	43	20,003
SS 827	103	.169	0	38	24,697
DeKalb DK714	103	.169	0	43	24,249
AgraTech 967	102	.176	0	37	23,591
Pioneer 3163	101	.170	0	38	18,987
+Beachley-Hardy X1162	101	.183	0	38	20,571
Cargill 8327	97	.174	0	45	23,711
Beachley-Hardy 4854	97	.197	0	38	20,392
DeKalb DK706	96	.177	0	40	24,040
+Hyperformer HY X58104	94	.181	0	37	19,315
Hyperformer HY 9899V	94	.190	0	46	23,232
Deltapine 4653	94	.167	0	37	23,501
Pioneer 3140	89	.195	0	44	18,030
Mycogen 8240	87	.172	0	43	19,495
Deltapine DP 5750	86	.180	0	40	20,123
Ciba 4631	85	.184	0	43	24,070
Cargill 8527A	84	.180	0	45	22,754
+Pioneer X1184M	83	.164	0	41	18,628
Asgrow RX938	83	.206	0	39	14,651
AgraTech 888	82	.179	0	37	20,960
Hyperformer HS 9944	81	.191	0	40	21,767
Doebler's 82XP	75	.183	0	39	16,535

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE  
AVAILABLE IN 1996 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 14. INDIVIDUAL SOIL TYPE DATA FOR  
TIDEWATER MEDIUM-MATURING CORN  
HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	MINERAL SOIL	ORGANIC SOIL	MEAN
DeKalb DK683	107**	105*	106**
+Ciba 6203X	103*	109*	106**
Mycogen 8460	99*	111*	105*
SS 827	102*	104*	103*
DeKalb DK714	94	112*	103*
AgraTech 967	94	110*	102*
Pioneer 3163	90	113**	101*
+Beachley-Hardy X1162	91	111*	101*
Cargill 8327	101*	94	97
Beachley-Hardy 4854	92	102*	97
DeKalb DK706	88	103*	96
+Hyperformer HY X58104	92	96	94
Hyperformer HY 9899V	90	98	94
Deltapine 4653	89	98	94
Pioneer 3140	83	94	89
Mycogen 8240	76	97	87
Deltapine DP 5750	87	84	86
Ciba 4631	80	90	85
Cargill 8527A	79	90	84
+Pioneer X1184M	75	92	83
Asgrow RX938	78	88	83
AgraTech 888	74	89	82
Hyperformer HS 9944	77	86	81
Doebler's 82XP	73	76	75
<b>Mean</b>	<b>88</b>	<b>98</b>	<b>93</b>
C.V. (%)	12.8	10.5	5.7
BLSD (K-50)	13	12	9
s.e.	5.0	4.6	1.7
R <sup>2</sup> (%)	77.7	82.2	88.5
Error d.f.	89	89	23

\*\*HIGHEST YIELDER.

\*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST  
YIELDER.

+EXPERIMENTAL. SEED OF THESE MAY OR MAY NOT  
BE AVAILABLE IN 1996 AND MAY HAVE A DIFFERENT  
DESIGNATION.

TABLE 15. ONE, TWO AND THREE-YEAR AVERAGES FOR MEDIUM-MATURING CORN HYBRIDS AT WASHINGTON COUNTY (MINERAL SOIL).

HYBRID OR BRAND-HYBRID	1995	1995, 1994	1995, 1994, 1993
	YIELD BU/A	YIELD BU/A	YIELD BU/A
SS 827	102	123	
DeKalb DK683	107	118	122
Cargill 8327	101	115	117
DeKalb DK714	94	115	122
DeKalb DK706	88	113	
Hyperformer HY 9899V	90	112	112
AgraTech 967	94	110	
Pioneer 3163	90	109	116
Mycogen 8240	76	108	112
Deltapine 4653	89	107	112
Asgrow RX938	78	105	
Deltapine DP 5750	87	105	108
Ciba 4631	80	104	110
Pioneer 3140	83	102	109
Cargill 8527A	79	99	111
AgraTech 888	74	99	108
Hyperformer HS 9944	77	96	105

TABLE 16. ONE, TWO AND THREE-YEAR AVERAGES FOR MEDIUM-MATURING CORN HYBRIDS AT WASHINGTON COUNTY (ORGANIC SOIL).

HYBRID OR BRAND-HYBRID	1995	1995, 1994	1995, 1994, 1993
	YIELD BU/A	YIELD BU/A	YIELD BU/A
DeKalb DK714	112	128	120
Pioneer 3163	113	125	110
AgraTech 967	110	125	
SS 827	104	124	
DeKalb DK683	105	122	118
DeKalb DK706	103	120	
Hyperformer HY 9899V	98	115	101
Cargill 8527A	90	115	104
Asgrow RX938	88	113	
Deltapine 4653	98	112	96
Ciba 4631	90	111	111
Cargill 8327	94	111	94
Mycogen 8240	97	110	91
Hyperformer HS 9944	86	108	95
AgraTech 888	89	107	96
Pioneer 3140	94	107	100
Deltapine DP 5750	84	105	94

TABLE 17. DATA COMBINED OVER LOCATIONS  
FOR LATE-MATURING CORN HYBRIDS IN TIDEWATER AREA.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
THREE YEAR AVERAGE - 1993, 1994, 1995					
NK N8811	114	.193	1	43	21,448
Hyperformer HS 9977	106	.196	0	41	22,146
SS 943V	104	.195	1	42	21,917
Mycogen 9220	103	.196	2	50	18,977
Cargill 9027	100	.184	1	43	23,163
Pioneer 3167	98	.201	1	43	19,325
Pioneer 3165	94	.199	1	47	19,285
TWO YEAR AVERAGE - 1994, 1995					
NK N8811	108	.177	1	42	21,528
SS 943V	106	.183	1	40	22,470
Hyperformer HY 9919	102	.176	1	40	20,541
Mycogen 9220	101	.183	2	48	18,015
Hyperformer HS 9977	100	.183	0	40	22,589
Cargill 9027	97	.173	1	40	22,545
Pioneer 3167	94	.181	1	40	19,061
Pioneer 3165	91	.183	1	43	18,269

TABLE 18. DATA COMBINED OVER SOIL TYPES FOR TIDEWATER  
LATE-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
Beachley-Hardy 4924	96	.172	0	37	21,408
Hyperformer HY 9919	95	.168	0	37	22,126
SS 943V	90	.173	0	41	22,844
NK N8811	88	.174	0	39	21,917
+Beachley-Hardy X1261	83	.183	0	41	20,810
Pioneer 3167	80	.172	0	37	19,226
Hyperformer HS 9977	80	.177	0	38	23,053
Mycogen 9220	79	.185	0	44	17,521
MGR 941	76	.182	0	41	17,282
Pioneer 3165	75	.181	0	42	18,179
Cargill 9027	71	.168	0	36	21,767
MGR 814	66	.189	0	40	18,418

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE  
AVAILABLE IN 1996 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 19. DATA COMBINED OVER SOIL TYPES  
FOR TIDEWATER LATE-MATURING  
CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	MINERAL	ORGANIC	MEAN BU/A
	SOIL BU/A	SOIL BU/A	
Beachley-Hardy 4924	93**	98**	96**
Hyperformer HY 9919	93**	98**	95*
SS 943V	84*	95*	90*
NK N8811	93**	82	88*
+Beachley-Hardy X1261	80	87	83*
Pioneer 3167	81	79	80
Hyperformer HS 9977	81	79	80
Mycogen 9220	69	88	79
MGR 941	73	79	76
Pioneer 3165	81	68	75
Cargill 9027	74	68	71
MGR 814	71	61	66
<b>Mean</b>	<b>81</b>	<b>82</b>	<b>81</b>
C.V. (%)	11.4	9.3	8.5
BLSD (K-50)	11	8	14
s.e.	4.1	3.4	2.2
R <sup>2</sup>	71.5	79.8	78.2
Error d.f.	40	42	11

\*\*HIGHEST YIELDER.

\*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST  
YIELDER.

+EXPERIMENTAL. SEED OF THIS HYBRID MAY OR  
MAY NOT BE AVAILABLE IN 1996 AND MAY HAVE  
A DIFFERENT DESIGNATION.

TABLE 20. ONE, TWO AND THREE-YEAR AVERAGES FOR LATE-MATURING CORN HYBRIDS AT WASHINGTON COUNTY (MINERAL SOIL).

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
NK N8811	93	112	119
Hyperformer HY 9919	93	104	
Hyperformer HS 9977	81	102	111
SS 943V	84	102	108
Cargill 9027	74	97	104
Mycogen 9220	69	95	103
Pioneer 3165	81	95	105
Pioneer 3167	81	94	105

TABLE 21. ONE, TWO AND THREE-YEAR AVERAGES FOR LATE-MATURING CORN HYBRIDS AT WASHINGTON COUNTY (ORGANIC SOIL).

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
SS 943V	95	109	100
Mycogen 9220	88	108	102
NK N8811	82	105	108
Hyperformer HY 9919	98	100	
Hyperformer HS 9977	79	98	101
Cargill 9027	68	97	96
Pioneer 3167	79	95	91
Pioneer 3165	68	88	82

TABLE 22. DATA COMBINED OVER LOCATIONS  
FOR EARLY-MATURING CORN HYBRIDS IN COASTAL PLAINS AREA.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
THREE YEAR AVERAGE - 1993, 1994, 1995					
Pioneer 3245	126	.168	2	37	20,325
AgraTech 787	126	.167	2	42	23,463
SS 793	123	.169	5	39	20,712
Pioneer 3394	123	.155	1	38	20,232
Hyperformer HS 9773	122	.169	6	40	18,702
Dyna-Gro 5510	121	.171	2	35	20,555
Mycogen 7885	118	.168	2	40	20,903
Hyperformer HS 9843	117	.169	2	43	22,070
Asgrow RX897	115	.168	2	42	19,998
TWO YEAR AVERAGE - 1994, 1995					
AgraTech 787	143	.173	1	45	22,985
Pioneer 3245	138	.174	2	38	19,971
Hyperformer HS 9822	136	.175	1	41	21,448
Ciba 4575	136	.166	1	44	22,910
Hyperformer HS 9773	136	.175	3	41	18,186
Pioneer 3394	134	.161	1	39	20,040
DeKalb DK668	134	.176	1	45	23,563
SS 793	133	.177	2	40	20,647
Mycogen 7885	132	.175	1	42	19,493
Dyna-Gro 5510	131	.178	1	36	19,745
Hyperformer HS 9843	131	.176	1	44	21,625
Asgrow RX897	127	.176	1	44	19,555



TABLE 23. DATA COMBINED OVER COASTAL PLAIN LOCATIONS FOR  
EARLY-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
Pioneer 3223	152	.179	1	47	20,197
AgraTech 787	148	.171	1	45	23,143
Hyperformer HS 9843	146	.180	0	47	22,380
Pioneer 3245	145	.169	1	42	20,781
+Pioneer X1134N	145	.172	1	44	19,525
Vigoro V1165	144	.166	0	41	22,395
Ciba 4575	142	.164	1	45	24,668
DeKalb DK668	141	.179	0	44	23,696
Hyperformer HS 9822	141	.172	1	42	20,407
Hyperformer HS 9773	140	.177	2	44	17,791
Mycogen 7885	136	.172	1	44	18,433
Pioneer 3394	133	.158	0	41	19,854
AgraTech 709	133	.166	1	40	23,038
Dyna-Gro 5510	133	.180	1	38	19,719
SS 793	132	.183	1	41	20,571
Hyperformer AP 674	132	.174	1	45	21,438
Asgrow RX897	126	.180	0	45	18,807
+Pioneer X1134T	104	.178	1	40	14,845

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE  
AVAILABLE IN 1996 AND MAY ALSO HAVE A DIFFERENT DESIGNATION.

TABLE 24. INDIVIDUAL LOCATION DATA FOR COASTAL PLAIN  
EARLY-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	JOHN- STON BU/A	LENOIR BU/A	BERTIE BU/A	SAMP- SON BU/A	MEAN BU/A
Pioneer 3223	123*	168	145**	173**	152**
AgraTech 787	125*	183**	121	164*	148*
Hyperformer HS 9843	132*	170	116	166*	146*
Pioneer 3245	115	176*	117	173**	145*
+Pioneer X1134N	116	168	131	165*	145*
Vigoro V1165	134**	160	124	159	144*
Ciba 4575	126*	165	118	159	142*
DeKalb DK668	129*	164	107	163*	141*
Hyperformer HS 9822	114	166	133*	151	141*
Hyperformer HS 9773	101	178*	125	156	140*
Mycogen 7885	122*	157	112	152	136
Pioneer 3394	111	155	122	145	133
AgraTech 709	107	157	131	138	133
Dyna-Gro 5510	104	162	114	153	133
SS 793	104	160	127	139	132
Hyperformer AP 674	114	151	106	156	132
Asgrow RX897	116	153	99	137	126
+Pioneer X1134T	86	157	80	93	104
<b>Mean</b>	<b>116</b>	<b>164</b>	<b>118</b>	<b>152</b>	<b>137</b>
C.V. (%)	11.0	4.8	11.1	7.8	7.4
BLSD (K-50)	14	8	14	12	13
s.e.	5.7	3.6	5.9	5.3	2.3
R <sup>2</sup> (%)	67.6	69.2	69.8	88.7	88.3
Error d.f.	66	64	64	64	51

\*\*HIGHEST YIELDER.

\*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT  
BE AVAILABLE IN 1996 AND MAY HAVE A DIFFERENT  
DESIGNATION.

TABLE 25. ONE, TWO AND THREE-YEAR AVERAGES FOR EARLY-MATURING CORN HYBRIDS AT JOHNSTON COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1992 YIELD BU/A
AgraTech 787	125	144	159
Ciba 4575	126	139	
Pioneer 3245	115	139	150
DeKalb DK668	129	137	
Mycogen 7885	122	136	
Hyperformer HS 9822	114	136	
SS 793	104	133	149
Pioneer 3394	111	133	144
Asgrow RX897	116	132	
Hyperformer HS 9843	132	130	146
Hyperformer HS 9773	101	127	143
Dyna-Gro 5510	104	122	138

TABLE 26. ONE, TWO AND THREE-YEAR AVERAGES FOR EARLY-MATURING CORN HYBRIDS AT LENOIR COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
Hyperformer HS 9773	178	122	98
Pioneer 3245	176	121	101
AgraTech 787	183	119	94
SS 793	160	116	96
Pioneer 3394	155	116	98
Hyperformer HS 9843	170	113	94
Dyna-Gro 5510	162	113	98
Ciba 4575	165	110	
DeKalb DK668	164	108	
Hyperformer HS 9822	166	107	
Mycogen 7885	157	106	88
Asgrow RX897	153	105	87

TABLE 27. ONE, TWO AND THREE-YEAR AVERAGES FOR EARLY-MATURING CORN HYBRIDS AT BERTIE COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
SS 793	127	133	136
Pioneer 3245	117	133	131
Hyperformer HS 9822	133	133	
Pioneer 3394	122	132	130
Hyperformer HS 9773	125	132	128
AgraTech 787	121	129	126
Hyperformer HS 9843	116	127	126
Dyna-Gro 5510	114	126	125
Ciba 4575	118	124	
DeKalb DK668	107	123	
Mycogen 7885	112	123	119
Asgrow RX897	99	114	119

TABLE 28. ONE, TWO AND THREE-YEAR AVERAGES FOR EARLY-MATURING CORN HYBRIDS AT SAMPSON COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
AgraTech 787	164	174	136
Pioneer 3245	173	167	137
Hyperformer HS 9773	156	167	136
Hyperformer HS 9822	151	166	
Ciba 4575	159	165	
DeKalb DK668	163	161	
Mycogen 7885	152	159	128
Hyperformer HS 9843	166	157	122
SS 793	139	157	132
Dyna-Gro 5510	153	156	131
Pioneer 3394	145	155	128
Asgrow RX897	137	149	119

TABLE 29. DATA COMBINED OVER LOCATIONS FOR MEDIUM-MATURING CORN HYBRIDS IN COASTAL PLAINS AREA.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
THREE YEAR AVERAGE - 1993, 1994, 1995					
DeKalb DK714	138	.182	4	41	23,922
DeKalb DK683	130	.174	3	41	23,078
DeKalb DK743	129	.191	4	40	23,204
Deltapine 4653	128	.174	4	39	21,973
Cargill 8527A	124	.179	2	40	22,535
Pioneer 3163	124	.172	2	38	18,933
Hyperformer HY 9899V	124	.187	4	43	19,684
AgraTech 888	121	.177	2	41	22,442
Cargill 8327	118	.170	3	41	22,996
Ciba 4631	117	.179	3	40	22,387
Deltapine DP 5750	116	.180	2	39	20,589
Pioneer 3140	114	.178	2	41	18,304
Hyperformer HS 9944	114	.186	2	40	20,717
TWO YEAR AVERAGE - 1994, 1995					
DeKalb DK714	149	.190	3	42	23,477
SS 827	144	.187	1	41	23,599
DeKalb DK683	143	.181	2	41	22,877
DeKalb DK743	141	.197	2	41	22,866
DeKalb DK706	140	.192	2	47	23,063
AgraTech 967	139	.201	2	37	22,219
Deltapine 4653	138	.179	1	40	21,696
Pioneer 3163	136	.180	1	38	18,567
Cargill 8527A	135	.187	1	42	22,339
Hyperformer HY 9899V	135	.195	2	45	20,119
Asgrow RX938	134	.204	1	44	17,971
AgraTech 888	133	.184	1	42	21,656
NK N8656	132	.194	1	41	22,250
Cargill 8327	131	.178	1	42	22,921
Ciba 4631	126	.186	3	41	22,088
Hyperformer HS 9944	124	.195	1	42	19,949
Deltapine DP 5750	124	.187	1	39	19,732
Pioneer 3140	123	.185	1	41	17,781

TABLE 30. DATA COMBINED OVER COASTAL PLAIN LOCATIONS FOR  
MEDIUM-MATURING CORN HYBRIDS - 1995

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
DeKalb DK714	152	.194	0	42	23,830
SS 827	144	.194	1	42	24,249
DeKalb DK743	144	.206	1	45	23,262
DeKalb DK683	143	.187	1	44	23,621
+Ciba 6203X	143	.182	0	46	25,460
DeKalb DK706	141	.200	1	50	23,756
Mycogen 8460	140	.206	1	43	20,347
Deltapine 4653	140	.186	0	46	21,827
AgraTech 967	138	.208	0	39	23,457
+Hyperformer HY X58104	138	.192	0	40	20,706
Hyperformer HY 9899V	138	.204	1	49	22,171
+Pioneer X1184M	137	.184	1	45	17,731
Pioneer 3163	137	.182	0	42	18,284
Cargill 8327	132	.179	0	42	22,993
Cargill 8527A	132	.196	0	43	21,678
AgraTech 888	129	.190	0	45	21,035
Ciba 4631	126	.196	0	41	22,560
NK N8656	126	.209	0	43	22,500
Vigoro V1235	122	.200	0	42	18,553
Asgrow RX938	122	.219	0	44	15,877
+Vigoro X1995	120	.220	0	41	19,166
Hyperformer HS 9944	117	.208	0	42	18,643
Pioneer 3140	115	.191	0	43	17,880
Deltapine DP 5750	111	.194	0	40	17,910

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1996 AND MAY ALSO HAVE A DIFFERENT DESIGNATION

TABLE 31. INDIVIDUAL LOCATION DATA FOR COASTAL PLAIN  
MEDIUM-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	JOHN- STON BU/A	LENOIR BU/A	BERTIE BU/A	SAMP- SON BU/A	MEAN BU/A
DeKalb DK714	120*	175*	124**	188*	152**
SS 827	110	174*	114*	179	144*
DeKalb DK743	106	161	112*	196**	144*
DeKalb DK683	121*	179**	100	171	143*
+Ciba 6203X	111	170*	108	181*	143*
DeKalb DK706	113*	169	92	192*	141
Mycogen 8460	119*	162	119*	159	140
Deltapine 4653	103	165	114*	177	140
AgraTech 967	110	169	108	167	138
+Hyperformer HY X58104	109	159	113*	171	138
Hyperformer HY 9899V	106	171*	107	167	138
+Pioneer X1184M	99	174*	114*	161	137
Pioneer 3163	116*	169	106	156	137
Cargill 8327	124**	159	87	160	132
Cargill 8527A	110	154	109*	154	132
AgraTech 888	94	156	107	160	129
Ciba 4631	99	148	102	157	126
NK N8656	102	153	90	157	126
Vigoro V1235	92	146	90	162	122
Asgrow RX938	88	157	101	143	122
+Vigoro X1995	88	143	103	145	120
Hyperformer HS 9944	89	140	100	137	117
Pioneer 3140	86	139	90	146	115
Deltapine DP 5750	84	134	91	137	111
<b>Mean</b>	<b>104</b>	<b>159</b>	<b>104</b>	<b>163</b>	<b>133</b>
C.V. (%)	11.1	6.1	12.7	9.9	6.5
BLSD (K-50)	12	10	16	17	10
s.e.	5.2	4.3	5.9	7.2	1.9
R <sup>2</sup> (%)	81.8	71.8	68.8	68.3	94.6
Error d.f.	88	90	88	88	69

\*\*HIGHEST YIELDER.

\*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE  
AVAILABLE IN 1996 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 32. ONE, TWO AND THREE-YEAR AVERAGES FOR MEDIUM-MATURING CORN HYBRIDS AT JOHNSTON COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1992 YIELD BU/A
NK N8656	102	141	
Pioneer 3163	116	139	153
DeKalb DK683	121	138	
DeKalb DK706	113	138	
Cargill 8527A	110	137	152
SS 827	110	135	
Cargill 8327	124	135	
DeKalb DK714	120	133	
Hyperformer HY 9899V	106	132	
DeKalb DK743	106	131	144
AgraTech 967	110	131	
Deltapine 4653	103	128	
Asgrow RX938	88	125	
Ciba 4631	99	122	141
AgraTech 888	94	122	138
Deltapine DP 5750	84	121	138
Hyperformer HS 9944	89	119	
Pioneer 3140	86	118	127

TABLE 33. ONE, TWO AND THREE-YEAR AVERAGES FOR MEDIUM-MATURING CORN HYBRIDS AT LENOIR COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
DeKalb DK683	179	120	97
SS 827	174	118	
DeKalb DK714	175	117	102
Pioneer 3163	169	115	95
Hyperformer HY 9899V	171	115	96
Asgrow RX938	157	115	
Deltapine 4653	165	113	97
DeKalb DK706	169	111	
DeKalb DK743	161	111	95
AgraTech 967	169	110	
AgraTech 888	156	107	91
Cargill 8327	159	106	86
Cargill 8527A	154	103	89
Pioneer 3140	139	103	87
Ciba 4631	148	102	94
NK N8656	153	100	
Deltapine DP 5750	134	96	87
Hyperformer HS 9944	140	95	79



TABLE 34. ONE, TWO AND THREE-YEAR AVERAGES FOR MEDIUM-MATURING CORN HYBRIDS AT BERTIE COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
SS 827	114	139	
Deltapine 4653	114	137	134
AgraTech 967	108	136	
DeKalb DK714	124	135	135
Pioneer 3163	106	132	126
Cargill 8527A	109	131	127
AgraTech 888	107	129	126
DeKalb DK743	112	127	125
DeKalb DK683	100	126	125
Hyperformer HY 9899V	107	125	122
NK N8656	90	121	
Hyperformer HS 9944	100	120	117
Asgrow RX938	101	120	
Cargill 8327	87	117	117
DeKalb DK706	92	116	
Deltapine DP 5750	91	116	117
Ciba 4631	102	116	119
Pioneer 3140	90	112	113

TABLE 35. ONE, TWO AND THREE-YEAR AVERAGES FOR MEDIUM-MATURING CORN HYBRIDS AT SAMPSON COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
DeKalb DK714	188	188	160
DeKalb DK743	196	186	156
DeKalb DK706	192	183	
DeKalb DK683	171	176	147
SS 827	179	175	
Deltapine 4653	177	171	149
Hyperformer HY 9899V	167	168	145
AgraTech 967	167	166	
NK N8656	157	163	
Pioneer 3163	156	162	139
AgraTech 888	160	162	136
Asgrow RX938	143	159	
Cargill 8527A	154	157	137
Cargill 8327	160	157	131
Ciba 4631	157	153	124
Pioneer 3140	146	151	131
Hyperformer HS 9944	137	150	129
Deltapine DP 5750	137	150	131

TABLE 36. DATA COMBINED OVER LOCATIONS  
FOR LATE-MATURING CORN HYBRIDS IN COASTAL PLAINS AREA.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
THREE YEAR AVERAGE - 1993, 1994, 1995					
Hyperformer HS 9977	129	.198	2	38	21,636
NK N8811	127	.194	2	36	21,885
SS 943V	127	.199	2	37	22,015
Pioneer 3085	125	.202	4	46	18,759
Cargill 9027	124	.187	3	38	22,882
Pioneer 3165	118	.199	2	41	19,178
Mycogen 9220	117	.195	4	40	19,390
Pioneer 3167	117	.202	1	40	19,194
TWO YEAR AVERAGE - 1994, 1995					
Ciba 4714	141	.192	1	47	21,849
Hyperformer HS 9977	141	.207	1	40	21,486
SS 943V	137	.209	1	38	22,197
NK N8811	137	.202	1	38	21,679
Pioneer 3085	134	.211	3	49	18,314
Cargill 9027	133	.195	2	39	22,390
Hyperformer HY 9919	128	.198	1	37	20,051
Pioneer 3165	125	.207	1	42	18,534
Pioneer 3167	124	.209	1	41	18,742
Mycogen 9220	122	.204	2	41	18,026

TABLE 37. DATA COMBINED OVER COASTAL PLAIN LOCATIONS FOR  
LATE-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
Hyperformer HS 9977	148	.213	0	41	21,842
+Pioneer X1234F	147	.240	0	46	19,061
Ciba 4714	142	.185	0	49	22,126
NK N8811	141	.205	0	42	21,184
+Ciba 7088X	137	.224	0	47	24,922
Cargill 9027	136	.195	1	42	22,186
SS 943V	133	.214	1	41	22,664
Pioneer 3085	131	.222	1	52	18,269
MGR 814	129	.205	1	46	18,045
+NK X9074	129	.210	1	43	17,910
Hyperformer HY 9919	128	.199	0	40	21,633
Pioneer 3167	125	.212	1	41	18,882
Pioneer 3165	124	.214	1	42	18,329
MGR 941	115	.203	0	44	16,998
Myccgen 9220	109	.211	2	43	16,281

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE  
AVAILABLE IN 1996 AND MAY ALSO HAVE A DIFFERENT DESIGNATION.

TABLE 38. INDIVIDUAL LOCATION DATA FOR COASTAL PLAIN LATE-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	JOHN- STON BU/A	LENOIR BU/A	BERTIE BU/A	SAMP- SON BU/A	MEAN BU/A
Hyperformer HS 9977	125*	170*	118**	177*	148**
+Pioneer X1234F	124*	166*	116*	183**	147*
Ciba 4714	137**	158	97	175*	142*
NK N8811	123*	170*	105*	165	141*
+Ciba 7088X	105	171**	92	181*	137*
Cargill 9027	102	163*	106*	174*	136
SS 943V	101	167*	94	171	133
Pioneer 3085	97	146	117*	164	131
MGR 814	88	164*	102	164	129
+NK X9074	121*	139	100	157	129
Hyperformer HY 9919	103	157	100	151	128
Pioneer 3167	99	148	96	155	125
Pioneer 3165	105	148	96	148	124
MGR 941	97	133	92	136	115
Mycogen 9220	79	131	95	132	109
<b>Mean</b>	<b>107</b>	<b>155</b>	<b>102</b>	<b>162</b>	<b>132</b>
C.V. (%)	16.5	6.8	12.2	7.1	7.3
BLSD (K-50)	20	11	16	12	12
s.e.	7.9	4.7	5.6	5.2	2.2
R <sup>2</sup> (%)	83.2	67.5	60.9	80.0	93.0
Error d.f.	52	56	52	53	42

\*\*HIGHEST YIELDER.

\*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1996 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 39. ONE, TWO AND THREE-YEAR AVERAGES FOR LATE-MATURING CORN HYBRIDS AT JOHNSTON COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1992 YIELD BU/A
Ciba 4714	137	147	
NK N8811	123	133	146
SS 943V	101	130	143
Hyperformer HS 9977	125	130	141
Pioneer 3085	97	129	151
Cargill 9027	102	128	139
Pioneer 3165	105	124	134
Hyperformer HY 9919	103	123	
Pioneer 3167	99	123	130
Mycogen 9220	79	115	143

TABLE 40. ONE, TWO AND THREE-YEAR AVERAGES FOR LATE MATURING CORN HYBRIDS AT LENOIR COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
Hyperformer HS 9977	170	116	98
NK N8811	170	114	96
Cargill 9027	163	112	96
SS 943V	167	110	92
Ciba 4714	158	109	
Hyperformer HY 9919	157	109	
Pioneer 3165	148	104	90
Pioneer 3085	146	99	87
Pioneer 3167	148	98	85
Mycogen 9220	131	97	86

TABLE 41. ONE, TWO AND THREE-YEAR AVERAGES FOR LATE-MATURING CORN HYBRIDS AT BERTIE COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
Hyperformer HS 9977	118	132	132
Pioneer 3085	117	129	128
NK N8811	105	128	130
Cargill 9027	106	120	123
Mycogen 9220	95	119	129
Ciba 4714	97	119	
SS 943V	94	117	122
Hyperformer HY 9919	100	115	
Pioneer 3167	96	113	120
Pioneer 3165	96	109	119

TABLE 42. ONE, TWO AND THREE-YEAR AVERAGES FOR LATE-MATURING CORN HYBRIDS AT SAMPSON COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
Ciba 4714	175	172	
Hyperformer HS 9977	177	170	142
SS 943V	171	169	147
NK N8811	165	165	144
Cargill 9027	174	164	145
Pioneer 3085	164	162	144
Hyperformer HY 9919	151	150	
Pioneer 3167	155	150	129
Pioneer 3165	148	147	129
Mycogen 9220	132	141	125

TABLE 43. DATA COMBINED OVER LOCATIONS  
FOR MEDIUM-MATURING CORN HYBRIDS IN PIEDMONT.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
THREE YEAR AVERAGE - 1993, 1994, 1995					
DeKalb DK714	138	.195	1	47	23,812
DeKalb DK743	135	.206	2	44	22,150
Deltapine DP 4653	130	.185	1	43	20,547
Hyperformer HY 9899V	129	.203	1	48	19,303
Cargill 8327	126	.186	0	45	22,234
DeKalb DK683	126	.186	1	46	22,293
Pioneer 3163	124	.190	1	40	17,832
Cargill 8527A	121	.190	1	46	21,014
Pioneer 3156	121	.195	1	46	18,215
AgraTech 888	119	.194	1	44	19,997
Pioneer 3140	118	.192	2	43	17,198
Ciba 4631	114	.193	1	46	21,241
Hyperformer HS 9944	111	.199	1	43	19,244
Pioneer 3154	111	.184	4	40	16,923
Deltapine DP 5750	106	.189	1	42	17,509
TWO YEAR AVERAGE - 1994, 1995					
DeKalb DK714	155	.201	1	49	23,756
DeKalb DK743	149	.213	2	46	21,947
DeKalb DK706	149	.197	1	51	22,933
SS 827	146	.201	1	42	22,320
Hyperformer HY 9899V	143	.210	1	51	19,958
Deltapine DP 4653	143	.191	1	45	20,467
Pioneer 3163	140	.196	1	42	17,402
Cargill 8327	139	.190	0	47	21,782
AgraTech 967	138	.211	1	42	20,541
DeKalb DK683	137	.191	1	48	22,081
Pioneer 3156	133	.201	1	50	18,194
Cargill 8527A	132	.196	1	48	20,885
AgraTech 888	131	.200	1	46	18,777
Pioneer 3140	129	.197	2	46	16,804
NK N8656	128	.207	1	45	19,913
Ciba 4631	123	.198	1	49	20,676
Asgrow RX938	123	.227	1	48	15,294
Pioneer 3154	121	.187	2	42	16,056
Hyperformer HS 9944	121	.205	1	46	18,433
Deltapine DP 5750	113	.193	1	44	16,669

TABLE 44. DATA COMBINED OVER PIEDMONT LOCATIONS FOR MEDIUM-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
DeKalb DK743	155	.234	2	55	22,066
DeKalb DK714	151	.217	1	56	23,980
Deltapine DP 4653	146	.206	1	51	19,555
AgraTech 967	141	.230	2	51	21,379
Hyperformer HY 9899V	141	.233	2	57	21,020
+Pioneer X1134M	139	.192	0	51	19,674
DeKalb DK706	139	.210	2	58	23,173
+Hyperformer HY X58104	138	.217	1	44	19,196
+NK XR8355	137	.210	2	52	20,571
Pioneer 3130	136	.207	5	58	17,701
+Pioneer X1184M	133	.206	2	55	16,714
SS 827	133	.216	1	46	22,814
Cargill 8327	132	.209	1	50	22,335
Pioneer 3156	129	.220	1	56	17,791
Pioneer 3163	127	.217	1	47	16,236
Mycogen 8460	126	.228	1	56	18,209
DeKalb DK683	125	.202	1	54	21,887
Ciba 4631	124	.218	2	56	19,136
+Ciba 6203X	123	.203	1	52	23,382
AgraTech 888	118	.217	1	50	17,043
NK N8656	117	.230	1	48	19,256
Cargill 8527A	116	.212	1	53	18,628
Pioneer 3140	115	.218	3	51	16,266
Hyperformer HS 9944	104	.225	1	51	16,176
Asgrow RX938	100	.261	2	51	11,003
Pioneer 3154	93	.191	1	37	12,947
Deltapine DP 5750	92	.210	1	47	11,661

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1996 AND MAY ALSO HAVE A DIFFERENT DESIGNATION



TABLE 45. INDIVIDUAL LOCATION DATA FOR PIEDMONT MEDIUM-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	GUIL- FORD BU/A	ROWAN BU/A	MEAN BU/A
DeKalb DK743	174**	137*	155**
DeKalb DK714	163*	139*	151*
Deltapine DP 4653	160*	132*	146*
AgraTech 967	140	143**	141*
Hyperformer HY 9899V	149	133*	141*
+Pioneer X1134M	156*	122	139*
DeKalb DK706	145	132*	139*
+Hyperformer HY X58104	151	124	138*
+NK XR8355	143	131*	137*
Pioneer 3130	145	127	136*
+Pioneer X1184M	148	119	133*
SS 827	140	126	133*
Cargill 8327	139	126	132
Pioneer 3156	138	120	129
Pioneer 3163	126	127	127
Mycogen 8460	136	116	126
DeKalb DK683	143	107	125
Ciba 4631	131	116	124
+Ciba 6203X	111	136	123
AgraTech 888	112	125	118
NK N8656	120	114	117
Cargill 8527A	109	123	116
Pioneer 3140	115	116	115
Hyperformer HS 9944	109	99	104
Asgrow RX938	104	96	100
Pioneer 3154	95	92	93
Deltapine DP 5750	75	109	92
<b>Mean</b>	<b>131</b>	<b>120</b>	<b>126</b>
C.V. (%)	14.3	11.7	9.9
BLSD (K-50)	19	15	23
s.e.	8.4	6.3	3.9
R <sup>2</sup> (%)	72.8	65.3	81.6
Error d.f.	105	105	27

\*\*HIGHEST YIELDER.

\*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST YIELDER.

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE AVAILABLE IN 1996 AND MAY HAVE A DIFFERENT DESIGNATION.

TABLE 46. ONE, TWO AND THREE-YEAR AVERAGES FOR MEDIUM-MATURING CORN HYBRIDS AT GUILFORD COUNTY.

HYBRID OR BRAND-HYBRID	1995	1995, 1994	1995, 1994, 1993
	YIELD BU/A	YIELD BU/A	YIELD BU/A
DeKalb DK743	174	168	
DeKalb DK714	163	167	
DeKalb DK706	145	159	
SS 827	140	158	
Hyperformer HY 9899V	149	151	
Deltapine DP 4653	160	151	
DeKalb DK683	143	149	
Cargill 8327	139	147	
Pioneer 3163	126	144	
Pioneer 3156	138	139	
AgraTech 967	140	138	
Pioneer 3140	115	137	
AgraTech 888	112	136	
NK N8656	120	134	
Pioneer 3154	95	130	
Ciba 4631	131	128	
Cargill 8527A	109	128	
Asgrow RX938	104	127	
Hyperformer HS 9944	109	125	
Deltapine DP 5750	75	104	

TABLE 47. ONE, TWO AND THREE-YEAR AVERAGES FOR MEDIUM-MATURING CORN HYBRIDS AT ROWAN COUNTY.

HYBRID OR BRAND-HYBRID	1995	1995, 1994	1995, 1994, 1993
	YIELD BU/A	YIELD BU/A	YIELD BU/A
DeKalb DK714	139	144	120
DeKalb DK706	132	139	
AgraTech 967	143	138	
Cargill 8527A	123	136	117
Hyperformer HY 9899V	133	135	115
Pioneer 3163	127	135	111
Deltapine DP 4653	132	135	116
SS 827	126	134	
Cargill 8327	126	132	112
DeKalb DK743	137	130	113
Pioneer 3156	120	126	109
DeKalb DK683	107	125	110
AgraTech 888	125	125	108
Deltapine DP 5750	109	122	107
NK N8656	114	122	
Pioneer 3140	116	121	105
Asgrow RX938	96	120	
Ciba 4631	116	118	104
Hyperformer HS 9944	99	117	101
Pioneer 3154	92	112	97

TABLE 48. DATA COMBINED OVER LOCATIONS  
FOR LATE-MATURING CORN HYBRIDS IN PIEDMONT.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
THREE YEAR AVERAGE - 1993, 1994, 1995					
Pioneer 3085	119	.239	2	50	18,827
Pioneer 3165	113	.233	1	46	18,588
SS 943V	109	.226	1	40	21,468
Cargill 9027	107	.213	1	41	22,315
Pioneer 3167	107	.243	1	43	18,428
Mycogen 9220	104	.228	2	48	18,339
Hyperformer HS 9977	99	.223	1	38	21,488
TWO YEAR AVERAGE - 1994, 1995					
Pioneer 3085	128	.230	3	55	17,805
SS 943V	123	.217	1	43	22,006
Ciba 4714	121	.208	1	50	21,797
Pioneer 3165	120	.229	1	49	17,925
Hyperformer HY 9919	117	.215	1	39	18,374
Cargill 9027	115	.208	2	44	21,827
Pioneer 3167	113	.238	1	44	17,491
Mycogen 9220	109	.224	3	51	15,683
Hyperformer HS 9977	108	.220	1	40	21,543

TABLE 49. DATA COMBINED OVER PIEDMONT LOCATIONS FOR  
LATE-MATURING CORN HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	YIELD BUS/A	MOISTURE	LODGING %	EAR HT IN	PLANT POPULATION
+Ciba 7088X	109	.258	2	55	19,794
MGR 814	108	.235	6	51	17,551
Hyperformer HY 9919	104	.218	1	41	18,598
Pioneer 3085	104	.250	4	59	17,312
Pioneer 3165	101	.245	2	51	16,565
SS 943V	101	.230	2	51	21,528
Ciba 4714	97	.214	1	52	20,990
NK X9074	94	.235	2	47	15,488
+Pioneer X1234F	93	.245	3	53	18,209
Pioneer 3167	91	.266	3	47	15,727
Hyperformer HS 9977	88	.232	2	44	21,169
Cargill 9027	87	.216	3	49	20,751
MGR 941	83	.226	2	49	12,558
Mycogen 9220	69	.250	6	56	10,405

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY OR MAY NOT BE  
AVAILABLE IN 1996 AND MAY ALSO HAVE A DIFFERENT DESIGNATION.

TABLE 50. INDIVIDUAL LOCATION DATA FOR  
PIEDMONT LATE-MATURING CORN  
HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	GUIL- FORD BU/A	ROWAN BU/A	MEAN BU/A
+Ciba 7088X	100*	117**	109**
MGR 814	107*	110*	108*
Hyperformer HY 9919	93	115*	104*
Pioneer 3085	108*	100	104*
Pioneer 3165	116**	87	101*
SS 943V	92	109*	101*
Ciba 4714	89	105*	97*
NK X9074	89	99	94*
+Pioneer X1234F	91	96	93*
Pioneer 3167	91	91	91*
Hyperformer HS 9977	75	102	88*
Cargill 9027	80	95	87*
MGR 941	68	97	83
Mycogen 9220	73	65	69
<b>Mean</b>	<b>91</b>	<b>99</b>	<b>95</b>
C.V. (%)	17.2	13.8	11.9
BLSD (K-50)	18	15	26
s.e.	7.0	6.1	3.6
R <sup>2</sup> (%)	70.4	67.9	68.5
Error d.f.	53	49	13

\*\*HIGHEST YIELDER.

\*NOT SIGNIFICANTLY DIFFERENT FROM HIGHEST  
YIELDER.

+EXPERIMENTALS. SEED OF THESE HYBRIDS MAY  
OR MAY NOT BE AVAILABLE IN 1996 AND MAY  
HAVE A DIFFERENT DESIGNATION.

TABLE 51. ONE, TWO AND THREE-YEAR AVERAGES FOR LATE-MATURING CORN HYBRIDS AT GUILFORD COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
Pioneer 3085	108	141	142
Pioneer 3165	116	133	133
Mycogen 9220	73	119	120
Ciba 4714	89	117	
Hyperformer HY 9919	93	115	
SS 943V	92	115	112
Cargill 9027	80	111	111
Pioneer 3167	91	110	115
Hyperformer HS 9977	75	102	104

TABLE 52. ONE, TWO AND THREE-YEAR AVERAGES FOR LATE-MATURING CORN HYBRIDS AT ROWAN COUNTY.

HYBRID OR BRAND-HYBRID	1995 YIELD BU/A	1995, 1994 YIELD BU/A	1995, 1994, 1993 YIELD BU/A
SS 943V	109	131	105
Ciba 4714	105	126	
Cargill 9027	95	118	102
Hyperformer HY 9919	115	118	
Pioneer 3167	91	115	98
Pioneer 3085	100	115	95
Hyperformer HS 9977	102	114	95
Pioneer 3165	87	108	93
Mycogen 9220	65	100	87

### CORN SILAGE

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

The report presents the results of the North Carolina Official Corn Silage trials for the 1995 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 1995 tests are shown in Table 53.

Table 53. Name, contact person, and address of sponsoring agencies in the 1995 North Carolina Corn Silage Performance Trials along with designation used to identify the hybrids in the trials.

Name, Contact Person and Address	Hybrid Designation
<b><u>Ciba Seeds</u></b> Gordon Johnson P. O. Box 18300 Greensboro, NC 27419	Ciba 4714 7088X
<b><u>DeKalb Genetics Corp.</u></b> Diane Freeman 3100 Sycamore Road DeKalb, IL 60115	DEKALB DK 683 706 714 743

Table 53. (Continued).

Name, Contact Person and Address	Hybrid Designation
<b><u>Hyperformer Seed Company</u></b>	
Al Hoggard 6075 Poplar Suite 500 Memphis, TN 38119	Hyperformer HS 9843 9944 9977 HY 9899V AP 674
<b><u>Mycogen Plant Sciences</u></b>	
Jim Barber 624 27th Street Lubbock, TX 79404	Mycogen 8460 X5790
<b><u>Northrup King Company</u></b>	
Carroll Oakes P. O. Box 249 Grifton, NC 28530	NK McNair 508 NK N7989 N8656 N8811
<b><u>Pioneer Hi-Bred International, Inc.</u></b>	
Dennis McCoy 800 Tiffany Blvd., Suite 200 Rocky Mount, NC 27804	Pioneer X1184M X1234F 3085 3130 3140 3154 3156 3163 3173
<b><u>Southern States</u></b>	
Jack Grayson 6606 W. Broad Street P. O. Box 26234 Richmond, VA 23260	SS 943 883A 827



**Field Plot Technique:** One test was located in Haywood County in a creek bottom and one in Rowan County on an upland soil.

Plots consisted of two rows with both rows harvested. Six replicates at Haywood and Rowan were planted in a randomized, complete block design. Plots were 22 feet long with six foot alleys.

All plots were over-planted and later thinned to the desired stand.

Table 54 lists the cultural practices used; Table 55 lists soil test results.

Table 54. Cultural practices used on the corn silage tests - 1995.

Location by County	Fertilizer lbs/A and Grade	Soil Type	Date of Planting	Date of Harvest
Haywood	750 26-10-9	Codorus clayey loam	May 12	September 27
Rowan	450 10-20-20 135 lb N/A Sidedressing	Hiwassee Clay	April 27	August 15

Table 55. Soil test results, corn silage - 1995.

Location by County	HM %	W-V	CEC	BS	% Ac	pH	P-I
Haywood	0.9	0.93	8.0	80	1.6	5.6	47
Rowan	0.2	0.88	5.5	78	1.2	6.1	31

Table 55. (Continued).

Location by County	K-I	Ca %	Mg %	MN-I	Zn-I	Cu-I
Haywood	102	56.3	17.3	625	62	154
Rowan	60	45.8	26.7	625	75	140

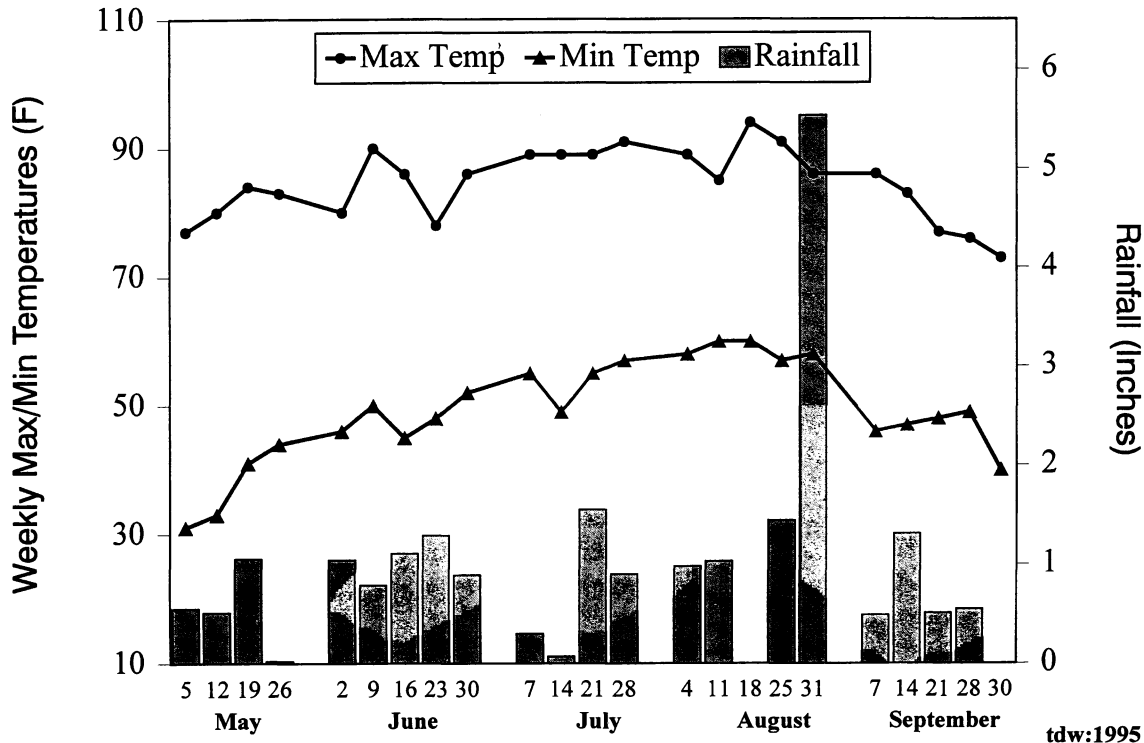
**Seasonal Conditions:** Planting was on time for Haywood county but slightly delayed (approximately 7-10 days) for Rowan county (Table 54). Rainfall was above normal for Rowan county in June and turned dry the middle of July and again in early August (see accompanying graphs). Rains in late August did not influence the Rowan location which was harvested August 15. Haywood county rainfall was typical for most of the season except for the last week of August when Hurricane Jerry came through and dropped more than five inches of rain. Harvest was on time at both locations.

**Data:** Data were collected on percent dry matter at harvest, dry matter yield, silage yield, plant population and plant height.

**Results:** Tables 56 and 57 reveal the two and three year averages. Table 58 lists the 1995 data averaged across locations while Tables 59 and 60 show individual location data. Multi-year averages by location are shown in Tables 61 and 62. The multiple-year averages provide a more accurate picture of true performance than any single year or location can provide.

# Haywood Co. Weekly Weather Data

(May - September 1995)



# Rowan Co. Weekly Weather Data

(April - August 1995)

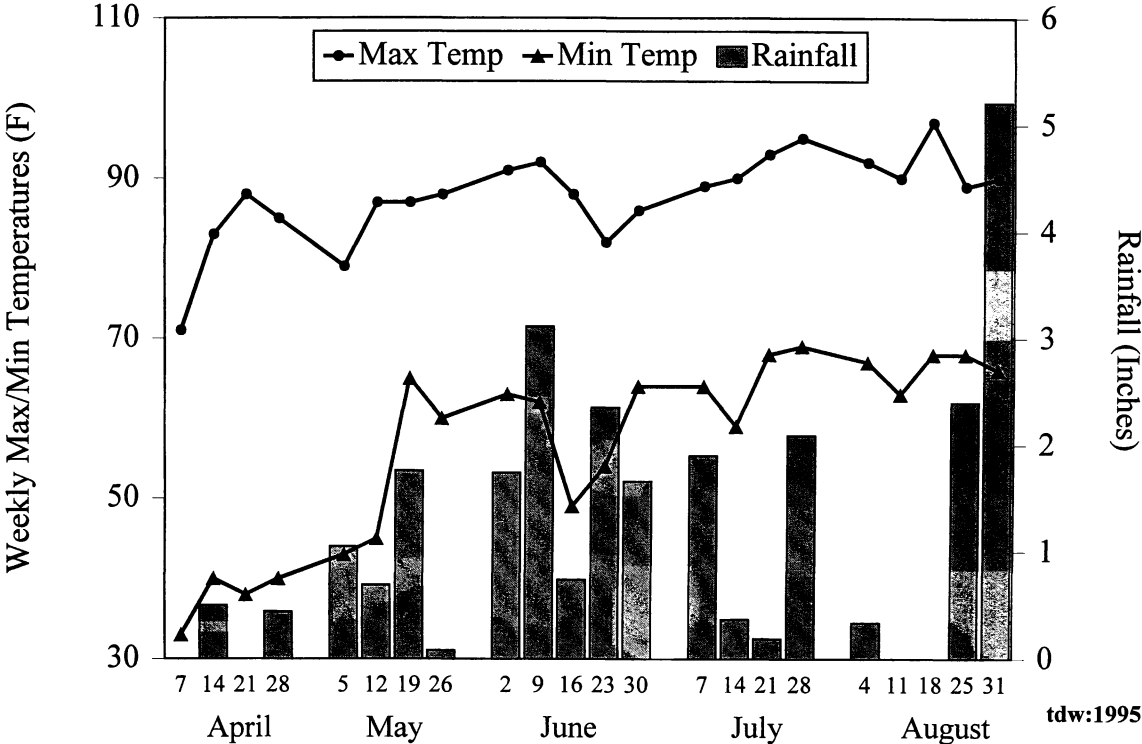


TABLE 56. DATA COMBINED OVER LOCATIONS FOR CORN SILAGE HYBRIDS.  
THREE YEAR AVERAGE - 1993, 1994, 1995.

HYBRID OR BRAND-HYBRID	DRY MATTER TONS/A	SILAGE YIELD TONS/A	% DRY MATTER AT HARVEST	PLANT HEIGHT INCHES	POPULATION PLANTS/ACRE
Hyperformer HS 9977	7.0	20.0	33	97	30,000
NK McNair 508	6.8	19.8	30	112	27,333
NK N8811	6.7	19.5	33	96	28,000
DeKalb DK714	6.7	18.8	36	100	26,000
SS 943V	6.5	18.4	35	100	26,333
DeKalb DK683	6.5	18.5	35	97	26,000
Pioneer 3156	6.5	18.4	34	104	27,000
Hyperformer HS 9944	6.5	18.3	33	94	29,333
Pioneer 3085	6.5	18.6	31	109	27,000
Pioneer 3140	6.4	18.7	33	105	27,000
Pioneer 3154	6.4	17.7	38	100	27,000
SS 883A	6.4	18.5	35	100	26,333
DeKalb DK743	6.3	18.4	32	107	26,000
Hyperformer HS 9843	6.3	18.2	33	98	30,000
Pioneer 3163	6.3	17.6	35	96	27,000
Pioneer 3173	6.2	17.5	34	108	27,000

TABLE 57. DATA COMBINED OVER LOCATIONS FOR CORN SILAGE HYBRIDS.  
TWO YEAR AVERAGE - 1994, 1995.

HYBRID OR BRAND-HYBRID	DRY MATTER TONS/A	SILAGE YIELD TONS/A	% DRY MATTER AT HARVEST	PLANT HEIGHT INCHES	POPULATION PLANTS/ACRE
Pioneer 3130	7.5	21.4	33	120	28,000
NK McNair 508	7.4	21.3	29	121	28,000
Hyperformer HS 9977	7.3	21.2	32	104	30,000
Ciba 4714	7.2	20.0	33	113	28,000
DeKalb DK714	7.2	20.5	35	108	26,000
Pioneer 3156	7.1	20.1	34	112	28,000
NK N8811	7.1	20.5	33	103	28,000
Pioneer 3085	7.0	20.1	30	117	28,000
Hyperformer HY 9899V	7.0	20.0	33	106	29,000
SS 943V	7.0	19.4	34	109	26,000
Pioneer 3163	6.9	19.5	35	105	28,000
Pioneer 3140	6.9	20.1	32	113	28,000
SS 883A	6.9	19.8	34	109	26,000
NK N8656	6.8	19.6	33	108	28,000
SS 827	6.8	19.6	32	107	26,000
Pioneer 3173	6.7	18.8	33	117	28,000
Hyperformer HS 9944	6.6	18.9	32	105	29,000
DeKalb DK683	6.6	19.0	33	104	26,000
Pioneer 3154	6.5	18.2	39	104	28,000
DeKalb DK743	6.5	19.0	31	113	26,000
Hyperformer HS 9843	6.4	18.4	32	106	20,000

TABLE 58. AVERAGE PERFORMANCE OF CORN SILAGE HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	DRY MATTER TONS/A	SILAGE YIELD TONS/A	% DRY MATTER AT HARVEST	PLANT HEIGHT INCHES	POPULATION PLANTS/ACRE
Hyperformer HS 9977	7.6**	21.7	33	107	30,000
+Mycogen X5790	7.5*	21.4	39	122	29,000
Pioneer 3156	7.4*	20.9	35	111	28,000
Augusta A703	7.3*	20.3	33	116	28,000
Pioneer 3130	7.3*	21.1	33	121	28,000
Hyperformer HY 9899V	7.3*	20.4	33	113	30,000
+Pioneer X1184M	7.2*	20.0	34	117	28,000
+Pioneer X1234F	7.2*	20.2	32	112	28,000
DeKalb DK714	7.1*	20.5	36	110	26,000
NK McNair 508	7.1*	20.5	29	121	28,000
SS 943V	7.0*	19.5	35	113	26,000
NK N8811	7.0*	20.5	33	109	28,000
Pioneer 3085	7.0*	20.3	30	118	28,000
Pioneer 3163	6.9*	19.9	36	104	28,000
Pioneer 3173	6.9*	19.3	35	117	28,000
NK N8656	6.9*	19.5	34	113	28,000
Pioneer 3140	6.8*	20.1	32	119	28,000
Hyperformer HS 9944	6.8*	19.3	33	106	30,000
DeKalb DK706	6.7*	19.0	35	112	26,000
SS 883A	6.7*	19.7	34	111	26,000
SS 827	6.7*	19.7	32	112	26,000

TABLE 58. (CONTINUED). AVERAGE PERFORMANCE OF CORN SILAGE HYBRIDS - 1995.

HYBRID OR BRAND-HYBRID	DRY MATTER TONS/A	SILAGE YIELD TONS/A	% DRY MATTER AT HARVEST	PLANT HEIGHT INCHES	POPULATION PLANTS/ACRE
+Ciba 7088X	6.7*	19.6	30	120	27,000
Hyperformer AP 674	6.6*	18.8	37	111	30,000
Ciba 4714	6.6*	18.3	34	114	27,000
DeKalb DK683	6.6*	18.5	35	106	26,000
Mycogen 8460	6.6*	18.9	30	98	29,000
DeKalb DK743	6.4	18.4	31	111	26,000
Hyperformer HS 9843	6.2	18.4	33	111	30,000
NK N7989	6.2	18.4	33	106	28,000
Pioneer 3154	5.8	16.0	41	94	28,000
<b>MEAN</b>	<b>6.9</b>				
R <sup>2</sup> (%)	95				
C.V. (%)	6.8				
BLSD (K-50)	1.2				
s.e.	0.2				
Error d.f.	29				

\*\*Highest yielder.

\*Not significantly different from highest yielder.

+Experimental. Seed of these hybrids may or may not be available next year and may have a different designation.



TABLE 59. AVERAGE PERFORMANCE OF CORN SILAGE AT HAYWOOD COUNTY - 1995.

HYBRID OR BRAND-HYBRID	DRY MATTER TONS/A	SILAGE YIELD TONS/A	% DRY MATTER AT HARVEST	PLANT HEIGHT INCHES	POPULATION PLANTS/ACRE
Augusta A703	9.4**	25.9	36	120	28,000
Pioneer 3156	9.1*	26.3	34	117	28,000
+Pioneer X1184M	8.9*	24.6	34	124	28,000
Hyperformer HS 9977	8.9*	25.5	34	112	30,000
+Mycogen X5790	8.7*	25.1	38	121	29,000
Pioneer 3130	8.7*	25.2	31	124	28,000
+Ciba 7088X	8.6*	24.5	33	123	27,000
+Pioneer X1234F	8.6*	24.4	33	116	28,000
NK McNair 508	8.6*	24.9	30	126	28,000
SS 827	8.6*	24.7	34	112	26,000
Hyperformer HY 9899V	8.6*	23.5	35	112	30,000
DeKalb DK714	8.6*	25.0	35	115	26,000
Pioneer 3173	8.5*	23.8	33	123	28,000
Pioneer 3140	8.5*	24.0	33	120	28,000
Pioneer 3163	8.4*	24.1	33	104	28,000
Pioneer 3085	8.4*	24.4	30	125	28,000
Hyperformer HS 9944	8.3*	23.5	34	108	30,000
NK N8811	8.3*	24.0	34	109	28,000
SS 943V	8.2*	23.6	32	118	26,000
NK N8656	8.1*	22.9	36	111	28,000
Hyperformer AP 674	7.8	22.8	36	121	30,000

TABLE 59. (CONTINUED). AVERAGE PERFORMANCE OF CORN SILAGE AT HAYWOOD COUNTY - 1995.

HYBRID OR BRAND-HYBRID	DRY MATTER TONS/A	SILAGE YIELD TONS/A	% DRY MATTER AT HARVEST	PLANT HEIGHT INCHES	POPULATION PLANTS/ACRE
NK N7989	7.8	23.1	36	104	28,000
SS 883A	7.7	22.7	33	117	26,000
DeKalb DK743	7.6	21.4	32	112	26,000
Ciba 4714	7.6	21.3	34	120	27,000
DeKalb DK683	7.5	21.9	34	113	26,000
DeKalb DK706	7.5	20.8	33	115	26,000
Mycogen 8460	7.3	21.3	31	99	29,000
Hyperformer HS 9843	7.1	20.9	35	112	30,000
Pioneer 3154	7.0	20.1	41	96	28,000
<b>MEAN</b>	<b>8.3</b>				
R <sup>2</sup> (%)	48				
C.V (%)	13.4				
BLSD (K-50)	1.5				
s.e.	0.5				
Error d.f.	142				

\*\*Highest yielder.

\*Not significantly different from highest yielder.

+Experimental. Seed of these hybrids may or maynot be available next year and may have a different designation.

TABLE 60. AVERAGE PERFORMANCE OF CORN SILAGE AT ROWAN COUNTY - 1995.

HYBRID OR BRAND-HYBRID	DRY MATTER TONS/A	SILAGE YIELD TONS/A	% DRY MATTER AT HARVEST	PLANT HEIGHT INCHES	POPULATION PLANTS/ACRE
Hyperformer HS 9977	6.3**	17.9	32	103	30,000
+Mycogen X5790	6.3**	17.8	39	124	29,000
DeKalb DK706	6.0*	17.2	37	110	26,000
Pioneer 3130	5.9*	17.0	35	119	28,000
Hyperformer HY 9899V	5.9*	17.4	32	114	30,000
SS 943V	5.9*	15.3	37	108	26,000
Mycogen 8460	5.8*	16.4	29	96	29,000
SS 883A	5.8*	16.7	35	105	26,000
NK N8811	5.8*	17.1	32	108	28,000
Pioneer 3156	5.7	15.5	36	105	28,000
+Pioneer X1234F	5.7	15.9	31	108	28,000
Ciba 4714	5.6	15.2	34	109	27,000
DeKalb DK683	5.6	15.2	36	100	26,000
DeKalb DK714	5.6	16.1	36	106	26,000
Pioneer 3085	5.6	16.2	31	111	28,000
NK N8656	5.6	16.1	32	114	28,000
NK McNair 508	5.6	16.0	27	115	28,000
+Pioneer X1184M	5.5	15.5	34	110	28,000
Hyperformer AP 674	5.5	14.9	38	102	30,000
Pioneer 3163	5.4	15.6	38	105	28,000
Hyperformer HS 9843	5.3	16.0	30	110	30,000

TABLE 60. (CONTINUED). AVERAGE PERFORMANCE OF CORN SILAGE AT ROWAN COUNTY - 1995.

HYBRID OR BRAND-HYBRID	DRY MATTER TONS/A	SILAGE YIELD TONS/A	% DRY MATTER AT HARVEST	PLANT HEIGHT INCHES	POPULATION PLANTS/ACRE
Augusta A703	5.3	14.7	29	113	28,000
Hyperformer HS 9944	5.3	15.0	32	104	30,000
Pioneer 3173	5.2	14.7	36	112	28,000
DeKalb DK743	5.2	15.4	30	111	26,000
Pioneer 3140	5.1	16.1	31	118	28,000
SS 827	4.8	14.6	29	113	26,000
+Ciba 7088X	4.8	14.7	26	117	27,000
Pioneer 3154	4.5	12.0	41	91	28,000
NK N7989	4.5	13.7	30	108	28,000
<b>MEAN</b>	<b>5.5</b>				
R <sup>2</sup> (%)	69				
C.V. (%)	10.1				
BLSD (K-50)	0.6				
s.e.	0.2				
Error d.f.	142				

\*\*Highest yielder.

\*Not significantly different from highest yielder.

+Experimentals. Seed of these hybrids may or may not be available in 1996 and may have a different designation.

TABLE 61. ONE, TWO, AND THREE YEAR AVERAGES  
OF CORN SILAGE HYBRIDS AT HAYWOOD COUNTY.

HYBRID OR BRAND-HYBRID	1995 DRY MATTER TONS/A	1994,1995 DRY MATTER TONS/A	1993,1994,1995 DRY MATTER TONS/A
Pioneer 3130	8.7	8.6	
Hyperformer HS 9977	8.9	8.5	8.5
Pioneer 3140	8.5	8.4	8.1
NK McNair 508	8.6	8.4	8.0
DeKalb DK714	8.6	8.4	8.0
Pioneer 3163	8.4	8.2	7.6
Pioneer 3156	9.1	8.1	7.5
SS 827	8.6	8.0	
Ciba 4714	7.6	8.0	
NK N8811	8.3	7.9	8.0
Pioneer 3085	8.4	7.9	7.5
SS 943V	8.2	7.9	7.7
Hyperformer HY 9899V	8.6	7.7	
Pioneer 3173	8.5	7.6	7.3
Hyperformer HS 9944	8.3	7.6	7.6
SS 883A	7.7	7.5	7.4
DeKalb DK743	7.6	7.5	7.5
NK N8656	8.1	7.5	
Hyperformer HS 9843	7.1	7.4	7.3
Pioneer 3154	7.0	7.4	7.5
DeKalb DK683	7.5	7.3	7.7

TABLE 62. ONE, TWO, AND THREE YEAR AVERAGES  
OF CORN SILAGE HYBRIDS AT ROWAN COUNTY

HYBRID OR BRAND-HYBRID	1995 DRY MATTER TONS/A	1994, 1995 DRY MATTER TONS/A	1993, 1994, 1995 DRY MATTER TONS/A
Ciba 4714	5.6	6.5	
Pioneer 3130	5.9	6.3	
NK McNair 508	5.6	6.3	5.6
NK N8811	5.8	6.2	5.5
Hyperformer HY 9899V	5.9	6.2	
SS 883A	5.8	6.2	5.3
Hyperformer HS 9977	6.3	6.2	5.4
Pioneer 3156	5.7	6.1	5.5
Pioneer 3085	5.6	6.1	5.4
NK N8656	5.6	6.1	
DeKalb DK714	5.6	6.0	5.4
SS 943V	5.9	6.0	5.4
DeKalb DK683	5.6	5.8	5.3
Pioneer 3173	5.2	5.7	5.1
Hyperformer HS 9944	5.3	5.7	5.3
Pioneer 3163	5.4	5.7	4.9
Pioneer 3154	4.5	5.7	5.2
SS 827	4.8	5.6	
DeKalb DK743	5.2	5.5	5.1
Hyperformer HS 9843	5.3	5.4	5.2
Pioneer 3140	5.1	5.3	4.7