
2004
WEST VIRGINIA
HYBRID CORN TRIALS

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Agricultural and
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West Virginia University

AUTHOR

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**WEST VIRGINIA UNIVERSITY
AGRICULTURAL AND FORESTRY EXPERIMENT STATION
DAVIS COLLEGE OF AGRICULTURE, FORESTRY, AND CONSUMER SCIENCES
CAMERON R. HACKNEY, DIRECTOR
MORGANTOWN**

2004 West Virginia Hybrid Corn Trials

Hybrid corn trials were harvested at Kearneysville, Morgantown, Reedsville, and Wardensville in 2004. Hybrid seed was donated by the companies listed at the end of this circular. Two trials were planted at each location, one containing early and the other late maturing hybrids. Selection of hybrid entries for each trial was based upon the length of growing season at a location, company assigned maturity data, and previous performance of hybrids at the four locations.

Plantings in 2004 were delayed beyond the normal planting times because of the wet spring. The combination of late planting and cooler than normal June, July, and August resulted in high grain moisture concentrations at harvest at most locations. The trials at Reedsville were planted about one month later than the usual planting date due to the excessive rainfall (8.12 inches) that occurred in May. As a result very high grain moisture percentages were present at harvest. Moisture exceeded the capability of the electronic moisture meter for measuring grain moisture concentration in most of the hybrids in the late trial at Reedsville. A moisture percentage of 45% was assumed for all hybrids measuring 45% or greater.

Yields of all hybrids at Kearneysville, Morgantown, Reedsville, and Wardensville averaged 128, 113, 116, and 153 bushels per acre, respectively. Average yields of the top five hybrids in trials at each location were 150, 138, 128, and 177 bushels per acre, respectively. The area planted to corn for all purposes in West Virginia in 2004 was 48,000 acres, and the area harvested for grain was 29,000 acres up 2,000 acres from 2003. The State average grain yield in 2004 was 131 bushels per acre, up 16 bushels from 2003.

Although, rainfall was above normal at all trial locations in 2004, there were periods of time in July and August when corn was under drought stress at Kearneysville and Wardensville. May temperatures averaged 6.3 F degrees above normal and rainfall was 34% above normal. Although growing degree-days were above normal at all locations in 2004, most of the increases occurred in May prior to corn emergence. At all locations, temperatures were below normal in June, July, and August and above normal in August and September.

At all locations, corn was planted by hand in conventionally tilled plots in a randomized complete block design. Four replications of each hybrid were planted. Plots consisted of two rows 12.5 feet long and 30 inches apart. Plots were overplanted and thinned to target populations of 20,900 plants per acre at Wardensville and 25,090 plants per acre at Kearneysville, Morgantown, and Reedsville.

Grain yields were determined by harvesting each plot by hand and weighing the ear corn. A composite moisture sample was taken for each hybrid by collect-

ing four random ears from each replication and shelling two to four rows of grain from each ear. Grain moisture was measured with an electronic moisture tester. Yields were calculated and reported on the basis of 15.5% moisture. Hurricane Ivan caused considerable wind damage at Morgantown and knocked down plants in a non-random pattern. Approximately 30% of the stalks were lodged; therefore, stand counts were not taken at this location. Erect and lodged plants were counted at other locations. Plant stalks leaning more than 30 degrees from the vertical and/or broken below the ear were considered lodged.

Fertilizer was applied at the rates of 160 lb/acre of N, 50 lb/acre of P_2O_5 , and 108 lb/acre of K_2O at all locations. Excellent weed control was achieved at all locations by using 2.4 quarts/acre of Bicep Magnum Lite and 3 ounces/acre of Hornet.

The least significant differences (L.S.D. 0.05) at the bottom of the yield tables can be used to compare hybrid performance. If yields of two hybrids differ by more than the indicated L.S.D. 0.05, the odds are 19:1 that the yields of the two hybrids are different. The coefficients of variability (CV%) are measures of variability in the trials. Coefficients of variability below 10% are desirable. Error control at Reedsville was excellent as indicated by the low CVs of 6.4 and 7.2 for the early and late trials, respectively. Error control at Morgantown was very poor due in part to the wind damage caused by hurricane Ivan and the subsequent wildlife damage to lodged ears.

In addition to grain yield, percent grain moisture and percent erect plants should be considered when selecting a corn hybrid. Low grain moisture at harvest reduces grain spoilage, and a high percentage of erect stalks allows for more efficient harvesting and higher grain quality. Readers are cautioned that the 2004 data are valid only for conditions occurring in that growing season. Standard deviations, indicated by a \pm sign, are given for multiple-year averages. These give a measure of the environmental, biological (including wildlife damage), and cultural variation from year to year. Low yields as a result of drought conditions in 2002, resulted in high standard deviations for some multiple-year averages.

2004 WEATHER DATA FOR TRIAL LOCATIONS*

	Kearneysville	Morgantown	Reedsville	Wardensville
Elevation (feet)	550	1240	1778	960
Normal Growing Degree Days, Base 50°F (May–October)	2938	2898	2236	2703
2004 Growing Degree Days, Base 50°F (May–October)	3184	3057	2390	2992
2004 Average Daily Temperatures (°F) and Departures from Normal				
May	68.3 +7.0	66.7 +5.5	62.6 +5.7	67.1 +7.0
June	69.2 -1.1	68.6 -0.8	64.5 -0.8	67.8 -1.2
July	74.2 -1.2	72.4 -1.1	68.5 -1.3	72.5 -1.0
August	71.6 -2.3	69.7 -2.4	66.1 -1.5	70.5 -0.2
September	66.8 +1.7	66.7 +0.8	63.2 +2.3	66.6 +2.5
October	54.4 +0.2	55.0 +0.6	50.9 +1.9	53.9 +1.7
2004 Rainfall (inches) and Percentages of Normal				
		%	%	%
May	5.68 136	4.40 101	8.12 150	5.48 147
June	4.60 131	4.26 105	5.66 143	3.67 117
July	2.32 62	3.58 84	5.72 119	2.29 55
August	2.69 79	5.50 139	6.05 134	2.81 81
September	4.90 139	4.83 144	6.00 163	8.61 300
October	2.40 70	3.39 118	4.21 143	1.53 73
Period	22.59 104	25.96 114	35.76 141	24.39 125

*Sources of data:

Climatological Data, U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA).

Unpublished data collected by weather observers at or near respective trial locations.

KEARNEYSVILLE
EARLY MIDSEASON
CORN GRAIN—2004

BRAND/HYBRID	YIELD BU/A*	PERCENT MOISTURE	PERCENT ERECT PLANTS	POPULATION PLANTS/ACRE (1000'S)
SEED CONSULTANTS SC1082	154	19.2	99	25.3
SEED CONSULTANTS SC1103	149	18.4	96	25.1
DEKALB DKC5878	148	18.3	98	25.6
HUBNER H3535	147	19.7	97	24.7
DOEBLERS 528XW	146	18.4	100	25.4
DEKALB DKC6008	143	18.0	99	24.7
DEKALB DKC5908	139	18.4	96	24.6
HUBNER H3473RR	139	18.8	97	24.7
PIONEER HYBRID 34M94	137	18.9	96	24.4
ASGROW RX702YG	135	19.4	99	24.9
ASGROW RX740	135	18.8	95	24.7
DOEBLERS 609XRR	133	18.5	91	24.6
PIONEER HYBRID 34H31	132	18.8	97	25.1
PIONEER HYBRID 35P12	129	18.4	92	25.3
SOUTHERN STATES SS710	128	18.5	97	24.6
SEED CONSULTANTS SC1091	126	18.0	94	23.2
DOEBLERS 596XY	124	18.3	96	25.1
HUBNER H3478RR	124	18.3	90	24.9
DOEBLERS 639RYG2	123	20.5	100	24.9
ASGROW RX718YG	120	18.8	97	24.9
DEKALB DKC6019	119	19.0	96	24.4
ASGROW RX708YG	118	19.5	94	24.2
DEKALB DKC5018	118	18.3	99	25.1
DOEBLERS 529X	111	18.8	89	24.7
DOEBLERS HC350	111	18.5	96	24.7
DEKALB DKC5143	109	17.8	98	24.9
DEKALB DK537	109	18.3	93	24.9
SEED CONSULTANTS SC1072A	106	19.6	94	25.1
DEKALB DKC5332	102	18.2	93	24.4
SOUTHERN STATES SS576	97	19.3	94	24.0
MEANS:	127.1	18.7	95.8	24.8
L.S.D. (0.05):	32.9	—	6.2	1.5
C.V.%:	18.5	—	4.6	4.2

*BASED ON 15.5% MOISTURE

PLANTED: MAY 13

HARVESTED: OCTOBER 27

FERTILIZER: 160-50-108 (LB/ACRE OF N, P₂O₅, AND K₂O, RESPECTIVELY)

HERBICIDES: 2.4 QTS BICEP MAGNUM LITE + 3 OZ HORNET/ACRE

SOIL: HAGERSTOWN SILT LOAM (FINE, MIXED, SEMIACTIVE, MESIC TYPIC HAPLUDALFS)

KEARNEYSVILLE
LATE MIDSEASON
CORN GRAIN—2004

BRAND/HYBRID	YIELD BU/A*	PERCENT MOISTURE	PERCENT ERECT PLANTS	POPULATION PLANTS/ACRE (1000'S)
SEED CONSULTANTS SC1134	157	20.1	90	24.2
SOUTHERN STATES SS849CL	153	22.3	92	24.2
HUBNER H3628RR	151	19.6	97	24.9
DEKALB DKC6125	148	19.5	100	25.4
DOEBLERS 818XYG	148	20.9	100	24.9
DOEBLERS 648RYG	144	19.8	99	25.1
DOEBLERS 760DT	144	20.7	95	24.0
PIONEER HYBRID 33D31	144	20.0	97	24.7
SEED CONSULTANTS SC1140	142	20.3	89	24.2
SOUTHERN STATES SS729CL	141	19.1	96	24.9
HUBNER 4808BT	140	21.9	99	24.4
PIONEER HYBRID 33B51	137	21.1	97	25.3
SEED CONSULTANTS SC1124	136	21.9	97	24.6
SOUTHERN STATES 900BT	134	23.1	99	25.1
DEKALB DKC6650	130	19.7	99	24.7
SOUTHERN STATES SS828	130	21.8	97	25.1
SEED CONSULTANTS SC1133	127	19.2	99	24.7
SOUTHERN STATES SS897	127	23.9	92	25.1
DOEBLERS 643XYG	127	20.7	98	24.6
PIONEER HYBRID 33Y09	125	20.4	98	24.6
DEKALB DKC6124	123	19.0	98	25.3
DOEBLERS HC560	122	19.1	99	25.8
ASGROW RX752YG	119	20.5	96	25.8
HUBNER H3625	116	20.0	98	24.6
SOUTHERN STATES 720RR	110	18.5	91	24.0
SEED CONSULTANTS SC1118	110	19.1	98	24.0
DOEBLERS 784XYG	105	21.3	97	23.9
SOUTHERN STATES SS747	99	20.5	99	24.6
SOUTHERN STATES SS769BT	93	20.6	99	24.2
DOEBLERS 749XYG	89	19.7	98	24.0
MEANS:	129.0	20.5	96.7	24.7
L.S.D. (0.05):	36.6	—	4.9	1.2
C.V.%:	20.2	—	3.6	3.4

*BASED ON 15.5% MOISTURE

PLANTED: MAY 13

HARVESTED: OCTOBER 27

FERTILIZER: 160-50-108 (LB/ACRE OF N, P₂O₅, AND K₂O, RESPECTIVELY)

HERBICIDES: 2.4 QTS BICEP MAGNUM LITE + 3 OZ HORNET/ACRE

SOIL: HAGERSTOWN SILT LOAM (FINE, MIXED, SEMIACTIVE, MESIC TYPIC HAPLUDALFS)

KEARNEYSVILLE
TWO-YEAR AVERAGES
2003-2004

BRAND/HYBRID	YIELD BU/A	STANDARD DEVIATION	PERCENT	
			PERCENT MOISTURE	ERECT PLANTS
SEED CONSULTANTS SC1103	157	±19.0	19.6	92
SEED CONSULTANTS SC1134	155	±24.8	20.9	87
SOUTHERN STATES SS849CL	152	±12.8	26.1	83
PIONEER HYBRID 33B51	151	±31.2	22.9	93
SEED CONSULTANTS SC1140	151	±26.7	21.1	75
SEED CONSULTANTS SC1124	150	±30.1	21.8	88
DEKALB DKC5878	149	±14.7	19.6	95
DEKALB DKC6125	149	± 8.7	21.3	95
DOEBLERS 760DT	149	±17.2	22.0	84
PIONEER HYBRID 33Y09	148	±28.6	21.1	86
SEED CONSULTANTS SC1091	147	±34.2	19.5	89
SOUTHERN STATES SS729CL	147	±19.9	20.0	78
DOEBLERS 643XYG	147	±29.7	23.3	92
PIONEER HYBRID 33D31	147	± 9.1	22.6	93
SEED CONSULTANTS SC1082	147	±21.5	20.9	88
ASGROW RX702YG	146	±18.5	21.9	96
DEKALB DKC6008	144	± 9.8	19.4	93
SOUTHERN STATES SS897	143	±37.8	26.4	80
ASGROW RX740	143	±24.6	20.0	88
DEKALB DKC6650	143	±24.5	22.2	91
ASGROW RX718YG	140	±29.9	19.7	95
SOUTHERN STATES SS710	140	±32.4	20.2	90
ASGROW RX752YG	140	±31.7	22.7	84
DEKALB DKC5908	139	± 8.0	19.7	87
SEED CONSULTANTS SC1133	139	±22.9	21.0	91
PIONEER HYBRID 34M94	139	±28.7	19.8	87
PIONEER HYBRID 34H31	138	±29.1	20.3	94
DEKALB DKC6019	137	±34.9	20.1	81
DEKALB DKC6124	136	±25.2	20.6	93
PIONEER HYBRID 35P12	134	±22.2	19.4	85
SOUTHERN STATES SS828	134	±16.9	24.9	94
DOEBLERS 596XY	133	±34.5	19.7	86
SEED CONSULTANTS SC1118	130	±29.0	19.9	82
DOEBLERS 529X	129	±23.0	19.0	87
DOEBLERS HC560	129	±15.0	21.2	79
DEKALB DKC5332	128	±42.3	17.6	93
DOEBLERS 749XYG	126	±47.0	22.1	86

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SOUTHERN STATES SS747	124	±42.6	22.0	83
DOEBLERS HC350	124	±39.2	19.0	94
SOUTHERN STATES SS769BT	122	±41.7	22.6	87
ASGROW RX708YG	121	±18.9	20.8	93
DEKALB DKC5018	121	±14.2	18.2	95
DEKALB DK537	117	±16.9	17.9	92
SEED CONSULTANTS SC1072A	116	±14.3	20.6	94
DEKALB DKC5143	116	±15.1	18.0	89
SOUTHERN STATES SS576	105	±13.3	20.1	84

KEARNEYSVILLE
THREE-YEAR AVERAGES
2002-2004

BRAND/HYBRID	YIELD BU/A	STANDARD DEVIATION	PERCENT PERCENT MOISTURE	ERECT PLANTS
PIONEER HYBRID 33B51	126	±46.0	22.3	93
SEED CONSULTANTS SC1140	124	±46.2	21.0	73
SEED CONSULTANTS SC1082	122	±41.7	20.5	87
DOEBLERS 760DT	122	±44.2	21.5	78
SEED CONSULTANTS SC1091	120	±48.4	19.2	88
PIONEER HYBRID 34M94	120	±36.8	19.3	87
DOEBLERS 643XYG	117	±50.2	23.3	91
SOUTHERN STATES SS729CL	117	±48.1	20.1	78
SOUTHERN STATES SS710	115	±45.5	19.2	85
PIONEER HYBRID 35P12	113	±35.9	19.0	83
SEED CONSULTANTS SC1118	113	±35.1	19.5	83
DOEBLERS HC560	112	±27.2	20.5	78
DOEBLERS 749XYG	112	±45.5	21.9	89
SOUTHERN STATES SS828	111	±38.4	24.1	90
DOEBLERS 529X	110	±33.8	18.8	87
DOEBLERS 596XY	110	±44.8	19.1	87
SOUTHERN STATES SS769BT	104	±45.6	22.2	78
DEKALB DK537	102	±25.3	18.0	85
DOEBLERS HC350	102	±44.6	18.7	90
SOUTHERN STATES SS747	100	±49.6	21.7	80
SOUTHERN STATES SS576	90	±24.9	19.3	82

MORGANTOWN
EARLY MIDSEASON
CORN GRAIN—2004

BRAND/HYBRID	YIELD BU/A*	PERCENT MOISTURE	PERCENT ERECT PLANTS ¹	POPULATION PLANTS/ACRE (1000'S) ¹
DOEBLERS 609XRR	144	37.6	—	—
DOEBLERS HC350	140	38.4	—	—
DEKALB DKC5878	133	36.3	—	—
DEKALB DKC5018	123	33.7	—	—
HUBNER H4202BT	119	31.8	—	—
SEED CONSULTANTS SC1103	118	39.8	—	—
SOUTHERN STATES SS710	117	38.5	—	—
PIONEER HYBRID 35P12	116	34.4	—	—
SEED CONSULTANTS SC1091	115	41.0	—	—
SOUTHERN STATES SS447	112	35.3	—	—
HUBNER H3161RR	112	29.7	—	—
PIONEER HYBRID 34H31	111	38.6	—	—
SEED CONSULTANTS SC1082	105	45.3	—	—
DEKALB DKC5143	105	32.6	—	—
DOEBLERS 639RYG2	103	39.3	—	—
SOUTHERN STATES SS576	101	42.3	—	—
HUBNER H3144	101	27.2	—	—
SEED CONSULTANTS SC1032	99	32.0	—	—
DEKALB DKC4815	97	31.7	—	—
DOEBLERS HC540	91	37.7	—	—
SEED CONSULTANTS SC1072A	89	39.6	—	—
PIONEER HYBRID 38A25	88	28.8	—	—
DOEBLERS 596XY	87	40.7	—	—
PIONEER HYBRID 34M94	85	34.9	—	—
PIONEER HYBRID 37R71	82	30.4	—	—
PIONEER HYBRID 36N70	79	29.9	—	—
DEKALB DKC5908	79	36.7	—	—
DEKALB DK537	75	35.8	—	—
PIONEER HYBRID 36N71	67	28.5	—	—
PIONEER HYBRID 38A24	62	27.6	—	—
MEANS:	101.8	35.2	—	—
L.S.D. (0.05):	43.3	—	—	—
C.V.%:	30.3	—	—	—

*BASED ON 15.5% MOISTURE PLANTED: MAY 24 HARVESTED: OCTOBER 28
 FERTILIZER: 160-50-108 (LB/ACRE OF N, P₂O₅, AND K₂O, RESPECTIVELY)
 HERBICIDES: 2.4 QTS BICEP MAGNUM LITE + 3 OZ HORNET/ACRE
 SOIL: CLARKSBURG SILT LOAM (FINE-LOAMY, MIXED, SUPERACTIVE, MESIC OXYAQUIC
 FRAGIUDALFS)

¹STAND COUNTS WERE NOT TAKEN DUE TO NON-RANDOM DAMAGE FROM HURRICANE
 IVAN

MORGANTOWN
LATE MIDSEASON
CORN GRAIN—2004

BRAND/HYBRID	YIELD BU/A*	PERCENT MOISTURE	PERCENT ERECT PLANTS ¹	POPULATION PLANTS/ACRE (1000'S) ¹
SEED CONSULTANTS SC1124	153	30.8	—	—
DOEBLERS 648RYG	144	35.7	—	—
DEKALB DKC6019	144	32.8	—	—
SEED CONSULTANTS SC1140	140	35.8	—	—
DOEBLERS 643XYG	138	33.1	—	—
SEED CONSULTANTS SC1134	138	35.4	—	—
SEED CONSULTANTS SC1118	138	34.3	—	—
PIONEER HYBRID 33B51	138	34.9	—	—
DEKALB DKC6124	136	34.1	—	—
DEKALB DKC6125	134	33.4	—	—
HUBNER H3473RR	130	32.7	—	—
DOEBLERS HC560	127	32.7	—	—
PIONEER HYBRID 33Y09	126	31.7	—	—
SOUTHERN STATES SS729CL	125	33.4	—	—
SOUTHERN STATES SS747	125	35.7	—	—
SEED CONSULTANTS SC1114	124	31.5	—	—
DEKALB DKC6215	124	34.0	—	—
SEED CONSULTANTS SC1122	121	32.4	—	—
PIONEER HYBRID 33D31	121	39.3	—	—
SEED CONSULTANTS SC1144	119	35.9	—	—
HUBNER H3535	115	35.9	—	—
DEKALB DKC6142	115	38.8	—	—
SOUTHERN STATES SS720RR	115	37.8	—	—
SEED CONSULTANTS SC1133	114	38.6	—	—
DEKALB DKC6379	111	35.2	—	—
DOEBLERS 784XYG	109	35.5	—	—
DEKALB DKC6008	105	32.9	—	—
HUBNER H3478RR	105	33.7	—	—
SOUTHERN STATES SS769BT	105	34.5	—	—
DOEBLERS 760DT	102	35.3	—	—
MEANS:	124.7	34.6	—	—
L.S.D. (0.05):	43.6	—	—	—
C.V.%:	24.9	—	—	—

*BASED ON 15.5% MOISTURE PLANTED: MAY 24 HARVESTED: NOVEMBER 2
 FERTILIZER: 160-50-108 (LB/ACRE OF N, P₂O₅, AND K₂O, RESPECTIVELY)
 HERBICIDES: 2.4 QTS BICEP MAGNUM LITE + 3 OZ HORNET/ACRE
 SOIL: CLARKSBURG SILT LOAM (FINE-LOAMY, MIXED, SUPERACTIVE, MESIC OXYAQUIC
 FRAGIUDALFS)

¹STAND COUNTS WERE NOT TAKEN DUE TO NON-RANDOM DAMAGE FROM HURRICANE
 IVAN

MORGANTOWN
TWO-YEAR AVERAGES
2002 AND 2004

BRAND/HYBRID	YIELD BU/A	STANDARD DEVIATION	PERCENT PERCENT MOISTURE	ERECT PLANTS ¹
SOUTHERN STATES SS729CL	159	±40.7	28.0	91
DOEBLERS HC350	158	±35.8	29.2	93
PIONEER HYBRID 33B51	155	±30.2	29.5	74
SEED CONSULTANTS SC1140	152	±27.4	30.2	77
DOEBLERS 643XYG	152	±29.9	28.3	85
DOEBLERS HC560	148	±35.2	28.7	83
SEED CONSULTANTS SC1118	147	±16.5	28.8	89
SEED CONSULTANTS SC1091	144	±39.2	30.5	89
SEED CONSULTANTS SC1082	141	±42.9	32.9	92
PIONEER HYBRID 35P12	141	±29.5	27.6	64
SEED CONSULTANTS SC1122	140	±29.6	27.7	82
DOEBLERS 760DT	138	±46.0	29.8	81
SOUTHERN STATES SS710	135	±31.4	30.9	80
DOEBLERS 596XY	134	±53.0	30.5	82
SOUTHERN STATES SS576	132	±38.8	31.3	92
SOUTHERN STATES SS720RR	131	±24.1	30.4	93
PIONEER HYBRID 34M94	125	±48.5	28.9	85
SOUTHERN STATES SS447	125	±24.0	27.2	67
DOEBLERS HC540	120	±42.6	30.6	71
DEKALB DK537	110	±42.9	27.1	81
PIONEER HYBRID 36N70	110	±42.5	24.6	58
PIONEER HYBRID 36N71	101	±41.6	23.7	67

¹DATA ARE FOR 2002 ONLY

MORGANTOWN
THREE-YEAR AVERAGES
2001, 2002, AND 2004

BRAND/HYBRID	YIELD BU/A	STANDARD DEVIATION	PERCENT PERCENT MOISTURE	ERECT PLANTS ¹
SOUTHERN STATES SS729CL	165	±34.4	24.8	91
SEED CONSULTANTS SC1140	160	±28.6	26.5	78
SEED CONSULTANTS SC1091	155	±49.9	26.6	89
SEED CONSULTANTS SC1122	153	±32.9	24.4	90
SEED CONSULTANTS SC1118	153	±21.2	25.1	88
SOUTHERN STATES SS710	152	±38.8	26.8	84
SOUTHERN STATES SS576	149	±43.4	26.4	88
SOUTHERN STATES SS720RR	148	±34.3	26.0	92
PIONEER HYBRID 35P12	147	±40.3	24.1	72
DOEBLERS HC540	143	±49.4	25.8	76
DOEBLERS 596XY	142	±48.7	26.1	79
PIONEER HYBRID 34M94	139	±45.4	25.3	84
SOUTHERN STATES SS447	130	±24.3	23.5	78
DEKALB DK537	129	±43.9	23.7	88
PIONEER HYBRID 36N70	127	±43.4	21.5	72

¹DATA ARE FOR 2001 AND 2002

REEDSVILLE
EARLY MIDSEASON
CORN GRAIN—2004

BRAND/HYBRID	YIELD BU/A*	PERCENT MOISTURE	PERCENT ERECT PLANTS	POPULATION PLANTS/ACRE (1000'S)
PIONEER HYBRID 36N71	140	36.1	100	25.1
HUBNER H4202BT	139	36.8	99	25.1
PIONEER HYBRID 36N70	134	38.3	96	25.1
DEKALB DKC5018	133	32.1	100	25.1
PIONEER HYBRID 38A24	129	29.8	99	25.1
PIONEER HYBRID 38A25	128	29.7	100	25.1
HUBNER H3161RR	126	40.4	99	25.1
DEKALB DKC5143	126	37.0	99	25.1
PIONEER HYBRID 35P12	124	41.2	99	25.1
DEKALB DKC4442	122	29.0	99	25.1
DEKALB DKC4626	121	31.6	99	25.1
HUBNER H3144	120	29.0	100	25.1
DEKALB DKC4815	120	35.7	99	25.1
DOEBLERS 528XW	118	44.3	100	25.1
DEKALB DK537	115	40.4	100	25.1
SEED CONSULTANTS SC1072A	114	42.5	99	25.1
SEED CONSULTANTS SC1032	113	41.0	99	25.1
SOUTHERN STATES SS576	110	45.0	98	25.1
SOUTHERN STATES SS447	109	44.0	97	25.1
PIONEER HYBRID 37R71	104	36.1	94	25.1
MEANS:	122.2	37.0	98.7	25.1
L.S.D. (0.05):	11.1	—	3.6	0.0
C.V.%:	6.4	—	2.6	0.0

*BASED ON 15.5% MOISTURE

PLANTED: JUNE 7

HARVESTED: NOVEMBER 4

FERTILIZER: 160-50-108 (LB/ACRE OF N, P₂O₅, AND K₂O, RESPECTIVELY)

HERBICIDES: 2.4 QTS BICEP MAGNUM LITE + 3 OZ HORNET/ACRE

SOIL: RAYNE SILT LOAM (FINE-LOAMY, MIXED, ACTIVE, MESIC TYPIC HAPLUDULTS)

REEDSVILLE
LATE MIDSEASON
CORN GRAIN—2004

BRAND/HYBRID	YIELD BU/A*	PERCENT MOISTURE	PERCENT ERECT PLANTS	POPULATION PLANTS/ACRE (1000'S)
DOEBLERS 643XYG	124	45.0	100	25.1
DEKALB DKC5878	123	45.0	99	25.1
DEKALB DKC6124	121	45.0	99	25.1
DOEBLERS 639RYG2	119	45.0	98	25.1
DOEBLERS 609XRR	118	41.1	94	25.1
DEKALB DKC6019	118	39.2	99	25.1
SEED CONSULTANTS SC1082	117	45.0	99	25.1
SEED CONSULTANTS SC1091	112	45.0	97	25.1
SOUTHERN STATES SS710	111	45.0	97	25.1
DOEBLERS HC350	109	45.0	94	25.1
PIONEER HYBRID 34M94	109	45.0	100	25.1
SEED CONSULTANTS SC1118	108	45.0	97	25.1
PIONEER HYBRID 34H31	106	45.0	99	25.1
DEKALB DKC5908	104	45.0	100	25.1
SEED CONSULTANTS SC1103	101	45.0	99	25.1
DOEBLERS 649XY	100	45.0	94	25.1
DEKALB DKC6008	99	45.0	99	25.1
HUBNER 3478RR	99	45.0	98	25.1
HUBNER H3535	95	45.0	92	25.1
HUBNER H3473RR	90	41.6	77	25.1
MEANS:	109.1	44.3	96.6	25.1
L.S.D. (0.05):	11.2	—	5.4	0.0
C.V.%:	7.2	—	4.0	0.0

*BASED ON 15.5% MOISTURE

PLANTED: JUNE 7

HARVESTED: NOVEMBER 4

FERTILIZER: 160-50-108 (LB/ACRE OF N, P₂O₅, AND K₂O, RESPECTIVELY)

HERBICIDES: 2.4 QTS BICEP MAGNUM LITE + 3 OZ HORNET/ACRE

SOIL: RAYNE SILT LOAM (FINE-LOAMY, MIXED, ACTIVE, MESIC TYPIC HAPLUDULTS)

REEDSVILLE
TWO-YEAR AVERAGES
2001 AND 2004

BRAND/HYBRID	YIELD BU/A	STANDARD DEVIATION	PERCENT PERCENT MOISTURE	ERECT PLANTS
SOUTHERN STATES SS710	151	±43.1	33.4	93
PIONEER HYBRID 36N70	148	±16.1	28.1	93
SOUTHERN STATES SS576	145	±40.3	32.3	92
PIONEER HYBRID 35P12	145	±36.7	30.7	93
PIONEER HYBRID 34M94	140	±33.6	32.4	96
SOUTHERN STATES SS447	133	±29.7	30.9	94
SEED CONSULTANTS SC1032	130	±22.2	30.1	97
PIONEER HYBRID 38A24	127	±17.3	23.9	95
PIONEER HYBRID 37R71	126	±26.0	27.0	91
DEKALB DK537	105	±22.2	29.7	96

REEDSVILLE
THREE-YEAR AVERAGES
2000, 2001, AND 2004

BRAND/HYBRID	YIELD BU/A	STANDARD DEVIATION	PERCENT PERCENT MOISTURE	ERECT PLANTS
SOUTHERN STATES SS576	156	±35.9	30.9	95
SOUTHERN STATES SS447	148	±33.0	28.3	96
PIONEER HYBRID 38A24	144	±30.4	23.0	97
PIONEER HYBRID 37R71	138	±28.1	25.6	94
DEKALB DK537	124	±33.5	28.0	97

WARDENSVILLE
EARLY MIDSEASON
CORN GRAIN—2004

BRAND/HYBRID	YIELD BU/A*	PERCENT MOISTURE	PERCENT ERECT PLANTS	POPULATION PLANTS/ACRE (1000'S)
FS SEEDS EAST 6001	196	17.2	98	20.6
SEED CONSULTANTS SC1091	183	18.0	97	20.7
SOUTHERN STATES SS710	182	16.9	97	20.7
HUBNER H3473RR	179	17.6	97	21.1
SEED CONSULTANTS SC1103	173	16.8	98	22.0
ASGROW RX702YG	173	17.5	99	21.1
ASGROW RX740	169	17.9	98	23.0
SEED CONSULTANTS SC1082	167	17.3	97	21.8
FS SEEDS EAST 5610	163	17.3	97	20.0
DEKALB DKC5878	162	15.0	99	20.2
PIONEER HYBRID 35P12	160	16.6	84	20.6
DEKALB DKC6019	159	18.1	95	21.4
ASGROW RX708YG	158	16.8	98	21.4
DOEBLERS 609XRR	158	17.3	97	20.7
HUBNER H3478RR	157	16.8	98	21.4
FS SEEDS EAST 5737	156	15.8	90	20.2
DEKALB DKC6008	156	16.2	97	22.0
PIONEER HYBRID 34H31	155	17.4	98	21.4
PIONEER HYBRID 34M94	154	16.6	97	20.9
ASGROW RX718YG	154	17.5	98	21.3
DOEBLERS 528XW	153	15.8	93	20.7
SEED CONSULTANTS SC1032	152	16.3	92	21.6
HUBNER H3535	151	17.4	98	21.1
DOEBLERS HC350	145	16.3	100	20.6
DEKALB DKC5908	140	16.4	97	20.2
SOUTHERN STATES SS576	131	17.0	98	20.6
DEKALB DK537	125	16.2	97	20.4
SEED CONSULTANTS SC1072A	124	17.9	81	21.4
DEKALB DKC5018	120	15.9	97	21.1
DEKALB DKC5143	90	17.0	85	20.7
MEANS:	154.7	16.9	95.7	21.0
L.S.D. (0.05):	28.6	—	11.2	2.0
C.V.%:	13.2	—	8.3	6.8

*BASED ON 15.5% MOISTURE

PLANTED: MAY 12

HARVESTED: NOVEMBER 8

FERTILIZER: 160-50-108 (LB/ACRE OF N, P₂O₅, AND K₂O, RESPECTIVELY)

HERBICIDES: 2.4 QTS BICEP MAGNUM LITE + 3 OZ HORNET/ACRE

SOIL: TYLER SILT LOAM (TILE DRAINED) (FINE-SILTY, MIXED, ACTIVE, MESIC AERIC FRAGIAQUULTS)

WARDENSVILLE
LATE MIDSEASON
CORN GRAIN—2004

BRAND/HYBRID	YIELD BU/A*	PERCENT MOISTURE	PERCENT ERECT PLANTS	POPULATION PLANTS/ACRE (1000'S)
FS SEEDS EAST 6406	180	16.9	95	22.0
FS SEEDS EAST 6102	176	16.3	99	21.4
SEED CONSULTANTS SC1140	174	18.3	95	21.8
SOUTHERN STATES SS849CL	165	21.1	96	22.5
DOEBLERS 818XYG	165	18.6	91	21.4
DOEBLERS 784XYG	165	18.3	95	22.1
DOEBLERS HC560	164	18.3	98	21.8
DOEBLERS 760DT	160	18.8	92	21.6
SEED CONSULTANTS SC1118	159	16.8	95	21.3
PIONEER HYBRID 33D31	158	18.9	98	22.7
HUBNER H3628RR	156	16.3	98	21.4
PIONEER HYBRID 33B51	156	19.5	96	21.3
DEKALB DKC6215	155	17.2	98	21.4
ASGROW RX702YG	154	16.8	100	22.3
ASGROW RX752YG	151	17.1	97	21.6
SOUTHERN STATES SS828	151	20.7	88	21.4
SEED CONSULTANTS SC1124	150	17.4	92	22.0
PIONEER HYBRID 33Y09	149	16.3	98	21.6
DOEBLERS 648RYG	148	17.6	95	22.5
DEKALB DKC6124	147	17.0	98	22.0
SOUTHERN STATES SS769BT	147	18.5	98	22.1
DEKALB DKC6125	147	17.7	96	22.0
HUBNER H3625	146	16.5	97	21.6
SOUTHERN STATES SS729CL	145	17.9	92	21.6
HUBNER H4808BT	142	18.8	93	21.1
SEED CONSULTANTS SC1153	140	16.5	94	21.4
DOEBLERS 643XYG	137	19.2	98	21.3
FS SEEDS EAST 6191	136	16.9	97	21.1
SEED CONSULTANTS SC1134	133	16.7	93	21.1
SEED CONSULTANTS SC1122	94	18.0	97	21.8
MEANS:	151.7	17.8	95.5	21.7
L.S.D. (0.05):	23.5	—	6.1	1.2
C.V.%:	11.0	—	4.5	4.0

*BASED ON 15.5% MOISTURE

PLANTED: MAY 12

HARVESTED: NOVEMBER 8

FERTILIZER: 160-50-108 (LB/ACRE OF N, P₂O₅, AND K₂O, RESPECTIVELY)

HERBICIDES: 2.4 QTS BICEP MAGNUM LITE + 3 OZ HORNET/ACRE

SOIL: TYLER SILT LOAM (TILE DRAINED) (FINE-SILTY, MIXED, ACTIVE, MESIC AERIC FRAGIAQUULTS)

WARDENSVILLE
TWO-YEAR AVERAGES
2002 AND 2004

BRAND/HYBRID	YIELD BU/A	STANDARD DEVIATION	PERCENT PERCENT MOISTURE	ERECT PLANTS
ASGROW RX702YG	164	±11.7	17.2	100
FS SEEDS EAST 6001	153	±48.2	18.3	97
SEED CONSULTANTS SC1140	150	±33.3	19.3	96
SEED CONSULTANTS SC1091	148	±40.6	19.7	93
PIONEER HYBRID 35P12	145	±22.8	18.6	88
PIONEER HYBRID 34M94	143	±16.9	20.0	97
SOUTHERN STATES SS710	141	±45.6	19.1	96
DOEBLERS 760DT	137	±28.9	20.3	95
SOUTHERN STATES SS849CL	136	±32.4	22.4	98
PIONEER HYBRID 33B51	136	±27.1	21.3	97
SEED CONSULTANTS SC1118	136	±27.1	19.6	94
SOUTHERN STATES SS729CL	134	±19.7	19.1	95
DOEBLERS 643XYG	134	±19.0	21.5	97
DOEBLERS HC560	133	±36.3	19.1	97
SOUTHERN STATES SS828	131	±30.7	23.2	93
SOUTHERN STATES SS769BT	129	±22.4	20.2	97
DOEBLERS HC350	126	±29.4	18.3	95
FS SEEDS EAST 6191	125	±28.7	18.2	98
SOUTHERN STATES SS576	119	±16.6	19.1	97
DEKALB DK537	109	±26.8	17.8	88
SEED CONSULTANTS SC1122	104	±21.5	18.8	98

WARDENSVILLE
THREE-YEAR AVERAGES
2000, 2002, AND 2004

BRAND/HYBRID	YIELD BU/A	STANDARD DEVIATION	PERCENT PERCENT MOISTURE	ERECT PLANTS
SEED CONSULTANTS SC1140	161	±32.3	21.2	84
SOUTHERN STATES SS710	153	±41.8	20.5	84
SEED CONSULTANTS SC1118	148	±29.1	20.8	87
SOUTHERN STATES SS828	147	±35.3	24.7	84
SOUTHERN STATES SS769BT	146	±32.9	22.7	98
SOUTHERN STATES SS849CL	146	±30.3	25.8	90
SOUTHERN STATES SS729CL	144	±22.3	22.2	91
FS SEEDS EAST 6191	139	±34.0	19.7	87
SOUTHERN STATES SS576	134	±32.2	20.1	91
DEKALB DK537	129	±37.0	18.2	78

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The following companies supplied seed for the trials:

FS Seeds East (formerly Agway Farm Seeds), Attn: Mark Guttendorf, 6835
Tully-Truxton Road, Tully, NY 13159

Doebler's Pennsylvania Hybrids, Inc., R.D. 1, Box 424, Jersey Shore, PA 17740

Hubner Seed Co., Inc. 10280 W. State Rd 28, West Lebanon, IN 47991

Monsanto Company, Agricultural Sector, Global Seed Group (DeKalb and
Asgrow Hybrids) 3100 Sycamore Road, DeKalb, IL 60115-9600

Pioneer Hi-Bred International, Inc., North American Division, 1000 West
Jefferson Street, Tipton, IN 46072

Seed Consultants, 9768 Northwest Milledgeville-Jefferson Road, Jeffersonville,
OH 43128

Southern States Hybrids, c/o Cooperative Seeds, Inc., 7200 E. St. Rd. 47,
Lebanon, IN 46052

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