
2000
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
COLLEGE OF AGRICULTURE, FORESTRY AND CONSUMER SCIENCES
CAMERON R. HACKNEY, DIRECTOR
MORGANTOWN**

2000 West Virginia Hybrid Corn Trials

Results of the West Virginia 2000 hybrid corn trials are contained in this report. Trials of early- and late-maturing hybrids were conducted at University experimental farms in Hardy, Jefferson, Monongalia, and Preston Counties. Seeds of the hybrids were provided by the companies listed at the end of this report and were commercially available in 2000.

The weather table that follows this text shows that the 2000 growing season was for the most part an average one. Growing degree days at each location were within 2% of normal, and rainfall across all locations was 8% above normal with the Kearneysville Farm in Jefferson county receiving the least, 96% of normal, and the Reedsville Farm in Preston County receiving the most, 129% of normal. Rainfall was significantly below normal in October at all locations. Temperatures in May, June, and October were above normal and those in July, August, and September were below normal at all locations. July temperatures across the locations averaged 4.2°F less than normal.

Average yield across hybrids in the trials was 158 bushels per acre, and the average yield of the top five hybrids in each of the eight trials was 187 bushels per acre. The average State and National yields were 130 and 137 bushels per acre, respectively.

Hybrids were selected for entry into trials based upon previous performance at a location and company maturity data. Seeds for the trials were planted by hand in a randomized complete-block design with four replications. Thirty hybrids were evaluated for yield, grain moisture, and lodging in each trial at all locations except at Reedsville where lack of early entries limited the early and late trials to 20 entries each. Plots consisted of two rows 30 inches apart and 12.5 feet long. Plots were overplanted and thinned to a target population of 25,090 when the plants were approximately 8 inches tall.

At harvest, stalks leaning more than 30 degrees from vertical and/or broken below the ear were considered lodged. European corn-borer damage accounted for most of the lodged plants at Kearneysville and Wardensville where corn acreage is greater than at Morgantown and Reedsville. Ears were harvested from plots by hand and weighed. Trials at each location were harvested on the same day except at Morgantown where the late trial was harvested 6 days later than the early trial. Grain moisture was measured with an electronic moisture tester. Samples consisted of grain shelled from two to four rows of 16 ears, four ears from each of the four replications. Fertilizers and pesticides were applied as indicated in the data tables for each location. Fertilizer rates are in pounds of N, P₂O₅, and K₂O per acre, and the pesticide rates are also in amount of product per

acre. Weed control was good at all locations. Data from 1999 and 2000 were combined for the two-year averages and from 1998, 1999, and 2000 for the three-year averages.

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. Percent moisture and percent erect plants should also be considered when selecting a corn hybrid. Low 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 2000 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 droughty conditions in 1999, resulted in high standard deviations for the two- and three-year averages.

2000 WEATHER DATA FOR TRIAL LOCATIONS*

	Kearneysville		Morgantown		Reedsville		Wardensville	
Elevation (feet)	550		1240		1760		960	
Normal Growing Degree Days, Base 50°F (May–October)	2938		2898		2236		2703	
2000 Growing Degree Days, Base 50°F (May–October)	2880		2920		2240		2690	
2000 Average Daily Temperatures (°F) and Departures from Normal								
May	63.6	2.2	63.5	2.9	59.1	2.2	61.8	1.7
June	71.0	0.7	70.7	2.3	66.7	1.4	70.4	1.4
July	69.9	-5.5	69.9	-3.0	66.0	-3.8	68.8	-4.7
August	70.4	-3.5	69.8	-1.1	66.2	-1.4	69.2	-1.5
September	63.0	-2.1	64.3	-0.6	60.1	-0.8	63.0	-1.1
October	55.7	1.5	54.9	1.2	51.2	2.2	54.4	2.2
2000 Rainfall (inches) and Percentages of Normal								
		%		%		%		%
May	1.87	41	6.57	145	4.46	82	3.60	96
June	4.43	165	4.36	121	7.36	185	2.37	76
July	5.46	124	3.46	80	8.39	175	2.66	64
August	2.77	74	3.26	90	3.93	87	4.36	126
September	4.29	125	2.20	64	4.81	132	6.18	214
October	0.27	12	1.58	74	1.98	67	0.21	10
Period	19.09	96	21.43	104	30.93	129	19.38	105

*Sources of data:

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

Climatological Summary of the Reedsville Experiment Farm, 1964–2000. Unpublished data collected at the Reedsville Experiment Farm and summarized by W. B. Bryan.

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

KEARNEYSVILLE
EARLY MIDSEASON
CORN GRAIN—2000

BRAND/HYBRID	YIELD BU/A*	PERCENT	POPULATION	PLANTS/ACRE (1000'S)
		PERCENT MOISTURE	ERECT PLANTS	
SEED CONSULTANTS SC1096	194	17.6	81	24.6
DEKALB DK635	179	19.1	87	23.9
AGWAY AG657	177	17.6	88	23.5
PIONEER HYBRID 33J56	172	18.8	90	23.7
DOEBLERS 596XY	167	16.3	90	23.9
SEED CONSULTANTS SCEX110	165	18.2	89	24.9
DEKALB DK626	161	18.1	87	23.9
DOEBLERS 636XY	161	18.8	91	23.0
SOUTHERN STATES SS576	160	16.9	91	24.4
SOUTHERN STATES SS710	157	18.5	94	25.1
AGWAY AG6191	157	17.6	94	24.6
SOUTHERN STATES SS720RR	151	17.2	86	24.4
DEKALB DK595	150	16.2	89	23.3
PIONEER HYBRID 3523	148	16.0	90	24.7
SEED CONSULTANTS SC11R19	145	16.7	88	23.9
DEKALB DK585	145	16.3	85	24.4
PIONEER HYBRID 37R71	144	15.1	86	24.6
DEKALB DK525	143	15.3	77	24.2
DOEBLERS 495XYG	143	15.8	85	23.7
PIONEER HYBRID 34K77	141	16.1	88	24.0
DEKALB DK477	140	14.2	81	24.4
SEED CONSULTANTS SC1039	139	15.9	88	23.7
DOEBLERS 642XP	139	17.6	92	24.6
SEED CONSULTANTS SC1118	137	15.9	86	24.7
DOEBLERS 516XY	137	14.2	84	24.9
DOEBLERS 568XYG	132	14.7	93	24.4
DEKALB DK537	130	16.5	87	24.9
PIONEER HYBRID 38P05	123	14.5	84	23.3
DEKALB DK493	111	14.5	77	24.6
SOUTHERN STATES SS447	103	15.8	90	20.7
MEANS:	148.4	16.5	87.3	24.1
L.S.D. (0.05):	17.8	—	9.4	1.7
C.V.%:	8.5	—	7.7	5.0

*BASED ON 15.5% MOISTURE

PLANTED: MAY 8

HARVESTED: OCTOBER 23

FERTILIZER: 165-90-120

PESTICIDES: 2.5 QTS BICEP II MAGNUM

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

KEARNEYSVILLE
LATE MIDSEASON
CORN GRAIN—2000

BRAND/HYBRID	YIELD BU/A*	PERCENT PERCENT MOISTURE	POPULATION ERECT PLANTS	PLANTS/ACRE (1000'S)
AGWAY AG6399BT	195	19.1	89	20.9
PIONEER HYBRID 3335	179	20.8	90	22.3
PIONEER HYBRID 3260	174	24.2	87	24.6
PIONEER HYBRID 33Y09	173	21.7	99	24.0
SEED CONSULTANTS SC1140	171	20.5	88	24.9
DEKALB DK679	165	22.3	84	24.6
PIONEER HYBRID 33K81	162	20.3	90	23.7
SOUTHERN STATES SS769BT	158	23.3	95	23.2
DOEBLERS 638XYG	155	20.3	97	20.9
DOEBLERS 887V2	154	26.5	84	21.6
DEKALB RX740	150	20.1	86	24.7
DEKALB DK647	147	21.0	90	23.9
SEED CONSULTANTS SC1117	147	20.0	85	25.1
DOEBLERS 859XY	145	23.3	86	23.5
SOUTHERN STATES SS729CL	140	18.3	77	23.7
DEKALB DK687	140	23.5	89	24.6
SOUTHERN STATES SS849CL	139	24.8	81	22.3
DOEBLERS 747XY	138	20.8	90	21.6
DOEBLERS 851XY	136	20.2	81	23.9
DEKALB DK650	132	17.8	93	24.7
SOUTHERN STATES SS818	131	18.8	91	22.0
SEED CONSULTANTS SC11C60	129	24.2	77	24.4
SOUTHERN STATES SS897	128	23.9	80	22.1
SOUTHERN STATES SS828	126	23.2	84	21.3
DOEBLERS 75X2	124	23.6	80	22.5
SOUTHERN STATES SS900BT	119	24.0	74	20.6
DEKALB DK714	115	22.7	83	22.0
SOUTHERN STATES SS767	115	21.3	90	23.5
SOUTHERN STATES SS789RR	111	22.0	75	24.2
SOUTHERN STATES SS747	104	21.4	74	20.2
MEANS:	143.4	21.8	85.6	23.0
L.S.D. (0.05):	22.2	—	12.8	3.7
C.V.%:	11.0	—	10.6	11.5

*BASED ON 15.5% MOISTURE

PLANTED: MAY 8

HARVESTED: OCTOBER 23

FERTILIZER: 165-90-120

PESTICIDES: 2.5 QTS BICEP II MAGNUM

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

MORGANTOWN
EARLY MIDSEASON
CORN GRAIN—2000

BRAND/HYBRID	YIELD BU/A*	PERCENT PERCENT MOISTURE	POPULATION	
			ERECT PLANTS	PLANTS/ACRE (1000'S)
SOUTHERN STATES SS710	205	24.5	99	24.9
SEED CONSULTANTS SCEX110	203	23.1	100	25.6
SEED CONSULTANTS SC1096	188	25.5	98	24.7
DEKALB DK585	186	22.6	100	25.8
SEED CONSULTANTS SC11R19	186	24.8	99	26.1
SOUTHERN STATES SS720RR	185	23.4	100	25.1
SEED CONSULTANTS SC1118	181	23.1	99	25.3
DOEBLERS 596XY	175	23.1	99	23.0
SOUTHERN STATES SS576	171	22.7	95	25.1
SEED CONSULTANTS SC1039	168	22.3	97	25.3
DEKALB DK537	167	20.6	99	25.6
AGWAY AG5496	165	22.0	99	24.9
PIONEER HYBRID 38A24	164	18.4	99	25.4
DEKALB DK525	162	19.8	100	25.3
DOEBLERS 636XY	161	25.0	95	23.5
PIONEER HYBRID 38T27	157	18.5	99	24.4
AGWAY AG5202	157	19.5	97	21.6
DOEBLERS 469XP	153	18.2	99	25.6
DOEBLERS 495XYG	148	19.5	100	25.1
DEKALB DK477	142	16.9	100	23.0
AGWAY AG4597	141	17.3	100	24.7
PIONEER HYBRID 38P05	138	17.8	96	25.8
PIONEER HYBRID 37R71	136	19.5	100	24.9
SOUTHERN STATES SS447	134	20.7	98	22.0
DOEBLERS 435XY	133	18.7	99	19.7
DEKALB DK493	123	17.9	97	21.4
PIONEER HYBRID 38K06	118	16.9	99	21.8
PIONEER HYBRID 38W36	116	18.8	93	25.1
DOEBLERS 516XY	115	18.6	97	18.8
DOEBLERS 568XYG	114	19.7	97	18.3
MEANS:	156.4	20.6	98.4	23.9
L.S.D. (0.05):	25.4	—	4.4	3.3
C.V.%:	11.6	—	3.2	9.7

*BASED ON 15.5% MOISTURE

PLANTED: MAY 11

HARVESTED: OCTOBER 20

FERTILIZER: 165-90-120

PESTICIDES: 2.5 QTS BICEP MAGNUM TR

SOIL: CLARKSBURG SILT LOAM (FINE-LOAMY, MIXED, MESIC TYPIC FRAGIUDALFS)

MORGANTOWN
LATE MIDSEASON
CORN GRAIN—2000

BRAND/HYBRID	YIELD BU/A*	PERCENT	POPULATION	PLANTS/ACRE (1000'S)
		PERCENT MOISTURE	ERECT PLANTS	
PIONEER HYBRID 3260	207	26.7	100	25.3
PIONEER HYBRID 33J56	195	23.6	97	24.4
DEKALB DK647	193	24.5	99	25.8
SOUTHERN STATES SS769BT	192	23.4	100	25.3
AGWAY AG6399BT	191	23.1	100	25.1
SEED CONSULTANTS SC1117	187	24.5	99	24.9
PIONEER HYBRID 3335	186	23.3	99	24.2
SEED CONSULTANTS SC1140	184	24.8	97	26.3
AGWAY AG657	179	21.3	99	25.3
SOUTHERN STATES SS828	177	27.3	99	25.1
AGWAY AG6191	176	23.1	97	24.9
SOUTHERN STATES SS747	173	24.8	98	25.8
SOUTHERN STATES SS729CL	169	23.0	98	26.0
DOEBLERS 642XP	169	21.9	100	24.4
DOEBLERS 638XYG	167	23.2	99	24.4
PIONEER HYBRID 33Y09	165	22.7	100	24.7
DOEBLERS 747XY	164	24.2	100	22.0
DOEBLERS 851XY	160	25.0	99	23.7
DEKALB DK595	160	21.4	98	24.4
DEKALB DK635	158	23.3	99	21.4
SEED CONSULTANTS SC11C60	157	31.1	95	24.2
DOEBLERS 75X2	155	24.2	99	24.4
DEKALB DK679	154	26.8	99	24.9
SOUTHERN STATES SS818	153	25.6	100	25.3
DEKALB DK650	151	25.7	99	24.0
DEKALB DK687	151	25.4	100	23.7
PIONEER HYBRID 33K81	149	23.0	99	22.5
SOUTHERN STATES SS789RR	145	28.5	100	23.2
SOUTHERN STATES SS767	143	25.8	100	25.3
DEKALB DK626	140	24.7	100	23.5
MEANS:	168.3	24.5	99.0	24.5
L.S.D. (0.05):	24.2	—	2.4	2.8
C.V.%:	10.3	—	1.7	8.3

*BASED ON 15.5% MOISTURE

PLANTED: MAY 11

HARVESTED: OCTOBER 26

FERTILIZER: 165-90-120

PESTICIDES: 2.5 QTS BICEP MAGNUM TR

SOIL: CLARKSBURG SILT LOAM (FINE-LOAMY, MIXED, MESIC TYPIC FRAGIUDALFS)

REEDSVILLE
EARLY MIDSEASON
CORN GRAIN—2000

BRAND/HYBRID	YIELD BU/A*	PERCENT PERCENT MOISTURE	POPULATION ERECT PLANTS	PLANTS/ACRE (1000'S)
SEED CONSULTANTS SC1028	190	29.0	98	26.1
DEKALB DK525	189	23.0	97	24.9
AGWAY AG5202	184	24.3	100	24.7
PIONEER HYBRID 38T27	181	20.8	99	25.3
PIONEER HYBRID 38A24	178	21.3	99	24.7
SOUTHERN STATES SS447	178	23.3	100	25.4
AGWAY AG4597	175	21.9	99	24.4
DOEBLERS 383X	174	19.9	99	25.3
DOEBLERS 495XYG	173	23.6	99	26.8
DOEBLERS 469XP	172	22.5	99	25.1
PIONEER HYBRID 38W36	168	21.2	100	25.1
SEED CONSULTANTS SC1039	166	26.7	98	26.1
PIONEER HYBRID 37R71	164	22.9	100	24.6
DOEBLERS 435XY	163	20.2	99	24.4
DEKALB DK493	156	22.9	98	25.3
DOEBLERS 516XY	155	22.8	99	24.0
DEKALB DK477	152	21.6	99	26.3
PIONEER HYBRID 38P05	150	22.1	99	25.4
SEED CONSULTANTS SC999	150	26.6	99	26.0
PIONEER HYBRID 38K06	147	20.8	99	25.1
MEANS:	168.4	22.9	99.1	25.3
L.S.D. (0.05):	15.8	—	2.4	1.9
C.V.%:	6.6	—	1.7	5.4

*BASED ON 15.5% MOISTURE

PLANTED: MAY 18

HARVESTED: NOVEMBER 1

FERTILIZER: 165-80-120

PESTICIDES: 2.5 QTS BICEP II

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

REEDSVILLE
LATE MIDSEASON
CORN GRAIN—2000

BRAND/HYBRID	YIELD BU/A*	PERCENT		POPULATION ERECT PLANTS	PLANTS/ACRE (1000'S)
		PERCENT MOISTURE			
PIONEER HYBRID 33J56	206	28.5		100	27.2
SEED CONSULTANTS SC10B99	192	30.5		99	26.5
DOEBLERS 596XY	185	28.9		96	25.3
AGWAY AG5496	180	26.4		99	24.7
SOUTHERN STATES SS576	177	28.2		100	25.1
SEED CONSULTANTS SC1096	177	29.5		99	26.8
SEED CONSULTANTS SC1080	172	31.0		98	24.7
AGWAY AG6191	171	29.7		100	25.4
SEED CONSULTANTS SC1068	171	28.1		98	27.0
PIONEER HYBRID 34K77	168	24.3		100	26.0
AGWAY AG6399Bt	166	33.5		100	24.2
DOEBLERS 636XY	165	30.4		98	24.0
DEKALB DK537	163	24.5		100	24.9
DEKALB DK626	160	29.8		94	24.0
DOEBLERS 642XP	160	28.8		99	25.1
PIONEER HYBRID 3523	157	27.0		100	25.1
DEKALB DK595	157	29.0		99	24.9
DEKALB DK585	156	26.9		98	24.7
PIONEER HYBRID 33K81	156	30.1		100	24.7
DOEBLERS 568XYG	144	27.9		99	24.4
MEANS:	169.2	28.6		98.8	25.2
L.S.D. (0.05):	16.0	—		2.4	2.3
C.V.%:	6.7	—		1.7	6.5

*BASED ON 15.5% MOISTURE
 PLANTED: MAY 18
 HARVESTED: NOVEMBER 1
 FERTILIZER: 165-80-120
 PESTICIDES: 2.5 QTS BICEP II
 SOIL: RAYNE SILT LOAM (FINE-LOAMY, MIXED, MESIC TYPIC HAPLUDULTS)

WARDENSVILLE
EARLY MIDSEASON
CORN GRAIN—2000

BRAND/HYBRID	YIELD BU/A*	PERCENT PERCENT MOISTURE	POPULATION ERECT PLANTS	PLANTS/ACRE (1000'S)
AGWAY AG657	190	22.5	57	25.4
DEKALB DK585	188	22.6	70	24.7
SEED CONSULTANTS SCEX110	185	23.0	59	25.3
SEED CONSULTANTS SC1096	178	23.6	68	25.1
SOUTHERN STATES SS720RR	177	21.9	70	24.2
SOUTHERN STATES SS710	176	23.5	62	25.4
SEED CONSULTANTS SC1118	174	23.2	72	23.3
PIONEER HYBRID 3523	170	19.1	76	24.4
DEKALB DK537	169	19.1	59	23.0
DOEBLERS 596XY	168	19.3	43	24.0
DEKALB DK595	167	20.2	69	22.5
AGWAY AG6191	165	22.9	67	21.8
SOUTHERN STATES SS576	164	22.2	80	23.5
DEKALB DK525	164	18.2	51	24.4
SEED CONSULTANTS SC11R19	163	22.8	66	24.7
DOEBLERS 636XY	162	23.4	65	21.6
PIONEER HYBRID 34K77	158	20.7	54	24.7
SEED CONSULTANTS SC1039	154	21.8	69	25.4
PIONEER HYBRID 37R71	153	19.3	86	24.6
AGWAY AG5496	149	20.9	71	22.8
DOEBLERS 495XYG	147	18.9	91	20.6
PIONEER HYBRID 38P05	147	17.5	61	21.3
DEKALB DK477	143	16.9	60	24.4
DEKALB DK626	142	23.4	69	18.8
DOEBLERS 469XP	135	17.8	54	22.7
DEKALB DK493	135	17.4	58	21.6
DOEBLERS 568XYG	135	18.1	68	22.3
DOEBLERS 435XY	131	17.5	59	22.7
SOUTHERN STATES SS447	123	19.7	59	19.5
DOEBLERS 516XY	121	17.3	70	19.7
MEANS:	157.7	20.5	65.4	23.2
L.S.D. (0.05):	24.1	—	20.3	3.7
C.V.%:	10.9	—	22.1	11.4

*BASED ON 15.5% MOISTURE

PLANTED: MAY 15

HARVESTED: OCTOBER 19

FERTILIZER: 165-0-0

PESTICIDES: 2.5 QTS BICEP II MAGNUM

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

WARDENSVILLE
LATE MIDSEASON
CORN GRAIN—2000

BRAND/HYBRID	YIELD BU/A*	PERCENT PERCENT MOISTURE	POPULATION	
			ERECT PLANTS	PLANTS/ACRE (1000'S)
PIONEER HYBRID 33J56	213	25.7	88	24.7
PIONEER HYBRID 3335	207	25.4	79	24.2
SEED CONSULTANTS SC1140	184	25.0	60	26.7
DEKALB DK635	183	25.6	67	21.8
PIONEER HYBRID 3260	183	27.6	58	23.2
SOUTHERN STATES SS769BT	182	27.8	100	24.2
PIONEER HYBRID 33Y09	181	23.6	92	23.9
SOUTHERN STATES SS828	181	27.7	65	24.9
PIONEER HYBRID 33K81	181	27.2	85	24.9
AGWAY AG6399BT	180	25.0	91	22.0
SEED CONSULTANTS SC1117	172	26.1	76	24.7
DEKALB DK647	170	26.7	70	24.0
SOUTHERN STATES SS897	169	30.0	81	25.1
SOUTHERN STATES SS849CL	166	32.7	74	24.0
SOUTHERN STATES SS729CL	164	28.5	81	25.4
DEKALB DK650	159	26.7	75	23.5
DEKALB DK714	157	29.2	85	23.9
SEED CONSULTANTS SC11C60	155	31.9	66	23.9
SOUTHERN STATES SS818	153	27.0	79	24.4
DOEBLERS 747XY	150	24.2	74	18.8
SOUTHERN STATES SS747	146	29.5	82	24.9
DOEBLERS 638XYG	144	25.1	97	16.7
DEKALB DK687	142	30.7	82	22.5
SOUTHERN STATES SS789RR	138	31.1	72	23.2
DEKALB DK679	138	31.4	79	22.0
DOEBLERS 859XY	137	34.4	88	24.6
SOUTHERN STATES SS767	128	26.0	65	17.9
DOEBLERS 851XY	128	29.8	71	17.8
DOEBLERS 75X2	124	28.5	84	18.1
DOEBLERS 887V2	119	35.4	72	19.0
MEANS:	161.1	28.2	77.9	22.8
L.S.D. (0.05):	25.5	—	14.7	4.2
C.V.%:	11.3	—	13.5	13.2

*BASED ON 15.5% MOISTURE

PLANTED: MAY 15

HARVESTED: OCTOBER 19

FERTILIZER: 165-0-0

PESTICIDES: 2.5 QTS BICEP II MAGNUM

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

TWO-YEAR AVERAGES
KEARNEYSVILLE
1999 AND 2000

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
PIONEER HYBRID 3335	127	±59.0	21.7	90
DEKALB DK679	119	±49.8	23.2	85
PIONEER HYBRID 33Y09	111	±68.2	20.9	98
DOEBLERS 596XY	111	±63.2	17.4	86
DOEBLERS 887V2	111	±47.3	26.6	88
PIONEER HYBRID 3260	111	±69.1	23.0	87
PIONEER HYBRID 3523	104	±50.7	17.1	88
DEKALB DK635	104	±81.2	19.1	87
SOUTHERN STATES SS576	103	±62.7	17.3	91
DEKALB DK687	100	±46.5	24.1	88
DOEBLERS 851XY	99	±43.8	22.5	84
PIONEER HYBRID 37R71	98	±51.1	16.0	90
DEKALB DK626	97	±70.4	17.7	85
DOEBLERS 859XY	96	±57.3	24.5	87
DOEBLERS 636XY	96	±70.2	20.0	92
DOEBLERS 747XY	94	±49.2	21.8	90
SOUTHERN STATES SS818	93	±41.0	20.4	90
DEKALB DK525	91	±56.4	15.7	82
DEKALB DK714	90	±37.7	23.2	86
DEKALB DK585	90	±61.0	16.7	88
DOEBLERS 642XP	90	±52.5	18.2	94
SOUTHERN STATES SS897	90	±47.2	23.8	85
PIONEER HYBRID 34K77	86	±59.9	18.0	89
DOEBLERS 75X2	86	±44.7	23.1	85
SOUTHERN STATES SS828	85	±46.2	23.2	83
DOEBLERS 516XY	83	±58.4	15.7	90
DEKALB DK477	80	±64.7	15.4	86
SOUTHERN STATES SS767	79	±40.3	21.6	91
DEKALB DK537	79	±57.0	16.2	89
SOUTHERN STATES SS747	77	±30.5	22.5	82
PIONEER HYBRID 38P05	73	±54.4	16.0	87
DEKALB DK493	72	±41.6	15.7	83
SOUTHERN STATES SS447	62	±45.0	16.0	88

*BASED ON 15.5% MOISTURE

TWO-YEAR AVERAGES
MORGANTOWN
1999 AND 2000

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
PIONEER HYBRID 3260	173	±39.4	26.0	79
PIONEER HYBRID 3335	169	±27.4	22.9	90
SOUTHERN STATES SS747	156	±19.8	25.5	81
PIONEER HYBRID 33Y09	154	±18.5	21.7	98
DEKALB DK585	152	±38.1	20.8	79
DOEBLERS 747XY	152	±23.1	24.5	77
SOUTHERN STATES SS576	150	±27.4	22.2	87
DOEBLERS 851XY	147	±20.1	26.1	65
DOEBLERS 642XP	146	±26.5	22.1	57
DOEBLERS 596XY	146	±33.5	21.4	56
SOUTHERN STATES SS828	144	±37.8	27.0	73
DEKALB DK679	144	±23.3	26.5	72
DOEBLERS 75X2	144	±22.6	24.2	88
DEKALB DK537	142	±28.1	18.6	86
DEKALB DK635	142	±21.7	23.3	94
DEKALB DK687	141	±15.3	26.3	79
SOUTHERN STATES SS818	141	±16.4	25.9	78
DEKALB DK525	141	±31.1	18.5	94
DOEBLERS 636XY	140	±27.8	23.8	65
SOUTHERN STATES SS767	139	±15.2	24.7	74
DOEBLERS 469XP	137	±21.0	17.8	87
DEKALB DK626	128	±25.1	23.6	79
DEKALB DK477	127	±22.8	16.5	95
SOUTHERN STATES SS447	125	±18.9	19.5	82
DOEBLERS 516XY	122	±15.7	17.7	88
PIONEER HYBRID 38P05	121	±22.6	17.5	93
DEKALB DK493	118	±14.8	17.0	81
PIONEER HYBRID 37R71	116	±25.5	18.3	79
PIONEER HYBRID 38W36	99	±24.5	19.2	90

*BASED ON 15.5% MOISTURE

TWO-YEAR AVERAGES
REEDSVILLE
1999 AND 2000

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
SOUTHERN STATES SS447	151	±30.5	21.4	96
DEKALB DK525	150	±42.0	21.2	92
DOEBLERS 596XY	150	±39.0	26.2	94
PIONEER HYBRID 34K77	149	±22.1	24.2	99
SOUTHERN STATES SS576	144	±36.3	25.8	86
PIONEER HYBRID 3523	143	±20.7	25.1	96
DOEBLERS 469XP	142	±33.5	20.1	95
DOEBLERS 636XY	141	±27.0	28.5	94
DEKALB DK626	140	±24.4	28.0	74
DEKALB DK585	139	±22.8	25.4	79
PIONEER HYBRID 37R71	138	±29.5	20.8	82
DOEBLERS 516XY	137	±30.2	21.7	86
DOEBLERS 383X	135	±44.1	19.0	98
DEKALB DK537	133	±33.6	21.8	96
DEKALB DK493	130	±29.9	21.0	95
PIONEER HYBRID 38W36	127	±45.8	20.5	94
DEKALB DK477	127	±27.3	19.7	95
PIONEER HYBRID 38P05	126	±28.1	20.3	90

*BASED ON 15.5% MOISTURE

TWO-YEAR AVERAGES
WARDENSVILLE
1999 AND 2000

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
PIONEER HYBRID 3335	156	±58.6	27.7	81
PIONEER HYBRID 33Y09	140	±45.9	23.8	73
PIONEER HYBRID 3260	138	±49.2	29.5	70
DEKALB DK635	135	±54.9	26.6	68
SOUTHERN STATES SS828	132	±53.1	28.9	56
DEKALB DK714	129	±32.0	31.5	88
DEKALB DK585	128	±65.3	21.2	66
SOUTHERN STATES SS897	126	±48.5	31.5	81
PIONEER HYBRID 3523	125	±49.4	19.4	61
DEKALB DK687	121	±24.0	31.2	77
DOEBLERS 636XY	121	±48.4	24.1	76
PIONEER HYBRID 34K77	119	±44.3	21.2	59
SOUTHERN STATES SS576	115	±58.2	21.3	73
DOEBLERS 747XY	115	±39.9	26.6	78
DOEBLERS 596XY	114	±59.4	20.4	64
DEKALB DK626	114	±33.8	23.6	61
SOUTHERN STATES SS747	113	±38.4	30.9	86
SOUTHERN STATES SS818	110	±49.1	29.0	77
DEKALB DK525	109	±59.1	17.9	61
DEKALB DK537	108	±65.6	19.0	68
DOEBLERS 859XY	105	±34.9	34.1	85
DEKALB DK679	104	±36.4	34.0	76
DOEBLERS 75X2	104	±26.9	30.9	86
SOUTHERN STATES SS767	100	±37.6	28.5	77
DOEBLERS 851XY	99	±32.1	31.7	78
DOEBLERS 887V2	97	±26.4	33.1	78
DEKALB DK493	96	±42.6	17.4	65
SOUTHERN STATES SS447	94	±32.0	19.2	62
PIONEER HYBRID 37R71	93	±64.6	18.7	81
DEKALB DK477	92	±55.2	17.9	72
DOEBLERS 469XP	87	±51.7	18.1	74

*BASED ON 15.5% MOISTURE

THREE-YEAR AVERAGES
KEARNEYSVILLE
1998 TO 2000

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
PIONEER HYBRID 3335	129	±47.5	19.7	88
PIONEER HYBRID 3260	120	±57.3	21.8	91
PIONEER HYBRID 33Y09	119	±58.0	19.2	96
DOEBLERS 887V2	118	±39.5	24.8	89
DEKALB DK679	115	±42.8	21.6	88
DEKALB DK635	114	±67.0	18.6	90
SOUTHERN STATES SS576	112	±52.9	16.6	93
DEKALB DK626	110	±60.0	17.4	88
DEKALB DK585	107	±55.9	16.2	90
DOEBLERS 636XY	107	±60.4	18.7	94
DOEBLERS 642XP	105	±48.9	17.2	95
DOEBLERS 859XY	103	±49.8	22.9	87
DEKALB DK687	103	±37.6	22.9	91
SOUTHERN STATES SS818	99	±35.3	19.5	90
SOUTHERN STATES SS897	98	±40.6	22.1	87
DEKALB DK714	97	±34.3	22.0	85
PIONEER HYBRID 34K77	97	±52.6	17.1	92
DOEBLERS 75X2	95	±39.2	21.5	88
SOUTHERN STATES SS828	95	±40.0	21.3	88
SOUTHERN STATES SS747	90	±32.7	22.1	87
SOUTHERN STATES SS767	88	±38.5	20.4	93

*BASED ON 15.5% MOISTURE

THREE-YEAR AVERAGES
MORGANTOWN
1998 TO 2000

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
PIONEER HYBRID 3260	162	±38.0	25.2	84
PIONEER HYBRID 3335	157	±32.4	22.9	90
SOUTHERN STATES SS747	144	±25.3	26.0	86
PIONEER HYBRID 33Y09	143	±21.9	22.4	98
DOEBLERS 596XY	138	±29.8	21.9	70
DOEBLERS 75X2	136	±22.8	25.2	91
SOUTHERN STATES SS576	136	±32.6	21.8	91
DOEBLERS 642XP	135	±27.0	22.0	71
DOEBLERS 636XY	132	±30.3	23.3	76
DEKALB DK537	130	±29.3	18.3	90
DEKALB DK679	129	±29.6	27.1	81
DEKALB DK635	128	±27.1	23.1	96
DEKALB DK525	127	±34.1	18.4	95
SOUTHERN STATES SS767	126	±22.8	24.6	82
DEKALB DK626	124	±24.0	23.7	85
SOUTHERN STATES SS447	122	±20.1	19.3	87
DEKALB DK493	110	±19.3	17.0	86
PIONEER HYBRID 37R71	107	±27.2	18.0	85
PIONEER HYBRID 38W36	93	±23.1	18.7	92

*BASED ON 15.5% MOISTURE

**THREE-YEAR AVERAGES
REEDSVILLE
1998 TO 2000**

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
DEKALB DK525	151	±34.0	21.7	93
PIONEER HYBRID 34K77	149	±20.1	24.4	98
PIONEER HYBRID 3523	148	±21.2	25.1	96
PIONEER HYBRID 37R71	136	±26.3	21.4	85
DEKALB DK493	136	±25.5	20.9	95
DEKALB DK537	130	±27.5	22.2	95
DEKALB DK477	127	±22.5	20.1	95
PIONEER HYBRID 38P05	121	±24.7	20.3	92
PIONEER HYBRID 38W36	120	±38.6	20.7	94

*BASED ON 15.5% MOISTURE

**THREE-YEAR AVERAGES
REEDSVILLE
1998 TO 2000**

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
DEKALB DK525	151	±34.0	21.7	93
PIONEER HYBRID 34K77	149	±20.1	24.4	98
PIONEER HYBRID 3523	148	±21.2	25.1	96
PIONEER HYBRID 37R71	136	±26.3	21.4	85
DEKALB DK493	136	±25.5	20.9	95
DEKALB DK537	130	±27.5	22.2	95
DEKALB DK477	127	±22.5	20.1	95
PIONEER HYBRID 38P05	121	±24.7	20.3	92
PIONEER HYBRID 38W36	120	±38.6	20.7	94

*BASED ON 15.5% MOISTURE

THREE-YEAR AVERAGES
WARDENSVILLE
1998 TO 2000

BRAND/HYBRID	YIELD BU/A*	STANDARD DEVIATION	PERCENT MOISTURE	PERCENT ERECT PLANTS
PIONEER HYBRID 3335	155	±49.4	24.3	86
PIONEER HYBRID 33Y09	141	±37.8	21.8	82
PIONEER HYBRID 3260	140	±43.8	27.1	78
DEKALB DK714	133	±27.5	28.2	90
PIONEER HYBRID 3523	127	±39.9	18.2	71
PIONEER HYBRID 34K77	122	±37.0	19.2	70
DEKALB DK635	119	±50.5	23.8	74
DOEBLERS 636XY	117	±43.2	21.6	80
DEKALB DK687	117	±26.0	28.5	83
SOUTHERN STATES SS818	116	±41.4	26.0	84
SOUTHERN STATES SS897	116	±42.8	28.2	87
SOUTHERN STATES SS576	116	±46.6	19.3	79
DEKALB DK679	114	±34.5	29.6	83
DOEBLERS 859XY	113	±32.2	30.2	88
DOEBLERS 596XY	111	±55.0	18.8	70
SOUTHERN STATES SS747	110	±36.4	27.5	85
DEKALB DK626	104	±40.5	21.4	66
DOEBLERS 75X2	100	±24.3	27.4	89
SOUTHERN STATES SS767	98	±37.0	25.8	83
DOEBLERS 887V2	94	±25.6	29.8	84
DEKALB DK525	80	±64.6	16.9	56

*BASED ON 15.5% MOISTURE

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Mr. Jerry Yates

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The following companies supplied seed for the trials:

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

Pioneer Hi-Bred International, Inc., North American Seed 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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