Visit the Iowa Crop Improvement Association online at http://www.agron.iastate.edu/icia/

A supplement to the December 11, 2004, issue of *Iowa Farmer Today*

2004 Iowa Crop Performance Test—Corn District 3

Results of the Iowa Crop Performance Test—Corn are published to aid Iowa farmers in selecting corn hybrids. This is the 85th consecutive year for the test.

These data are first released on the Iowa Crop Improvement Association's homepage at http://www.agron.iastate.edu/icia/ usually around the end of November.

The next released format of these data is in the Iowa Crop Management Database program. A description of this program and an order form can be found at http://extension.agron.iastate.edu/CMD/. A short description of how this program manages these data is provided in the "Other Reports" section of this report.

The final format is the printed version, which is printed and distributed by *Iowa Farmer Today* in its Dec. 11, 2004 issue. A few days later, the printed reports also are available from county extension offices.

The presentation of data for the hybrids tested does not imply approval or endorsement by the authors or the agencies sponsoring or conducting the test. Entries in Tables 1, 1A, and 2 are designated by brand name and variety.

Use of These Data in Advertisements

Iowa State University and the Iowa Crop Improvement Association desire to maintain the credibility of data from the Iowa Crop Performance Test—Corn. Misuse of these data in advertisements can have a negative effect on the perception of the value of these data. For advertising purposes, brand-to-brand comparisons should not be made unless more than one competitor brand is used in the ad and all entries of competitor brands in a reported table are included in the ad. Advertisement statements by an individual company about the performance of its entries can be made as long as they are accurate statements about the data as published with no reference to other companies' hybrids. A statement similar to: "See the official *Iowa Crop Performance Test—Corn* report, PM 660 (1–7) 04, for details," should be included in the ad.

2004 Procedure

Producers of seed corn and Iowa State University were eligible to enter hybrids in the Iowa Crop Performance Test—Corn. Each producer was allowed a maximum of 12 paid entries per district. All commercial entries had to be available in a quantity of at least 10 bushels of seed.

Iowa Crop Improvement Association

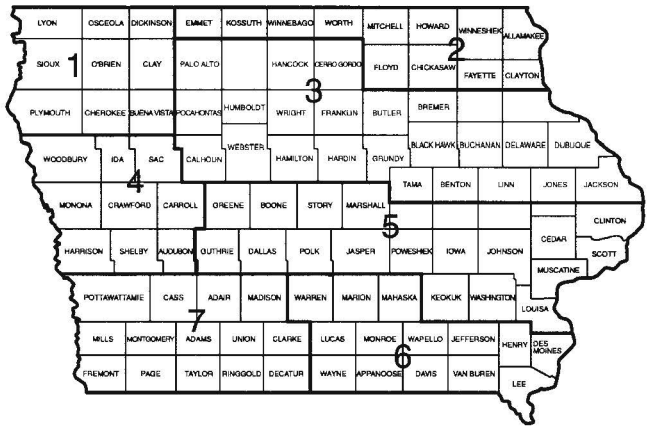
In 2004, data are reported on 170 entries in this district. Ten of the entries determined to be check hybrids were entered by the Iowa Crop Improvement Association. Survey cards were mailed to a random sample of corn growers in Iowa. Based on the survey results, the 10 hybrids grown on the most acres in the district were classified as check hybrids for the district. The check hybrids ($ and !) in this report were determined by the 2003 survey. The Iowa Crop Improvement Association entered a maximum of three check hybrids of any given brand. These entries were given priority over the remaining 160 entries made by seed producers.

Each entry was replicated four times in four-row plots at a planting rate of 30,000 kernels per acre at each location. All locations were machine planted. The center two rows of each plot were harvested with a corn combine. No gleanings or dropped ears were included in yield data. A moisture determination was made from each plot and yields were corrected to 15.5 percent moisture for shelled corn.

Since 1988, data for protein, oil, and starch percentages have been included in the *Iowa Crop Performance Test—Corn* reports. Protein, oil, and starch were measured on an Infratec 1225 near-infrared transmittance analyzer calibrated against accepted chemical methods as done by Woodson-Tenant Labs, Des Moines, Iowa. Dr. Charles R. Hurburgh, Jr. of the ISU Department of Agricultural and Biosystems Engineering was responsible for analyzing the samples. Samples for nutrient analysis were collected from one field in each district. Data presented are averages of the four replicated plots in that field. To be consistent with the yield data, the protein, oil, and starch data were corrected to 15.5 percent moisture.

How Information Is Presented

The agronomic data presented are averages of three locations in 2002, 2003, and 2004. Yield in bushels per acre and percentages of moisture, root lodging, stalk lodging, dropped ears, stand, protein, oil, and starch are shown for all entries in 2004 and for those tested in 2002 and 2003 that were in the 2004 test.



IOWA STATE UNIVERSITY
University Extension

PM 660 3 04 December 2004

Interpretation of Results

Yield differences due to variation in soil, fertility, moisture availability, insect infestation, and diseases, plus any variation due to planting and harvesting techniques, are identified through statistical analysis. The LSD values for yield shown in Tables 1, 1A, and 2 represent, in bushels per acre, the amount of yield variation that could be due to variations in the factors just mentioned. In comparing varieties, yield differences greater than the LSD value can be attributed to genetic differences in the yield potential of these varieties; yield differences less than the LSD value are not statistically different and could have been due to other factors.

Grain moistures shown in Tables 1, 1A, and 2 are indications of maturity and natural drying rate. Maturity of varieties entered generally ranged from short to full season. Yield comparisons should be made among varieties of similar maturity.

It is important to select varieties having stable performance over a range of environmental conditions. High yields for two or more consecutive years, Table 2, indicate stable performance. Also, starting in 2002, to increase the range of environmental conditions reported on in one year, 18 additional tables are provided electronically on the Iowa Crop Improvement Web page that merge data across districts. These tables double, and in some cases even triple, the number of locations reported on for hybrids entered in several districts. Supplemental yield and agronomic information about specific varieties may be obtained from seed corn dealers, crop consultants, and from neighbors who have grown these varieties.

The protein, oil, and starch percentage data (Tables 1, 1A, and 2) are quality traits important to different end-users of corn. For feed, protein is of primary interest; for wet-mill processing (ethanol and sweeteners), oil and starch content are important. Several firms have begun testing these characteristics on a routine basis. There are now more than 50 Iowa grain elevators with this testing capability.

Whole-grain near-infrared equipment measures composition of unground corn kernels in 1 to 1.5 minutes per sample. The equipment measures moisture simultaneously with composition. Using these instruments, country elevators can test and segregate grain as it is received. Obviously, all compositional factors cannot be high in the same hybrid. The grain market is expanding the production and marketing of certain hybrids for specific uses. This is an important change from the generic commodity approach widely used now.

The economic impact of compositional factors can be significant. Corn protein trades off with other protein sources in many feed rations. At $200 per ton for 44 percent protein soybean meal, the value of a 1 percent increase (e.g., from 8 percent to 9 percent) in corn protein is about 12 cents per bushel of corn. Likewise, an additional percent of oil yields about 10 to 14 cents per bushel in increased oil output in a wet processing plant or when substituted for white grease in feed rations. The additional ethanol or sweetener from an extra percent of starch provides 8 to 10 cents per bushel more revenue. Producers feeding livestock are in the best position to capture immediate benefits from these composition data. Country elevators with feed mills also have the ability to capitalize on increased protein in corn. The Iowa Corn Growers Association has prepared a publication to aid growers in using the nutrient data in the *Iowa Crop Performance Test—Corn* reports: *Nutrient Content and Feeding Value of Iowa Corn,* Iowa Corn Growers Association, Des Moines, Iowa 50265.

Hybrids with similar yields and agronomic characteristics may not be identical in corn composition. Therefore, feed costs can be reduced by selecting higher protein hybrids from a group with similar yield potential. Weather and soil conditions affect composition, but the relative ranking of hybrids does not change greatly. A higher protein hybrid will be higher than average regardless of environmental conditions that raise or lower the averages. The protein percentages reported are measures of crude protein and may not give an accurate indication of feed value if feed rations are balanced on individual amino acids rather than crude protein content.

2004 Field Data

The District 3 test was planted on farms operated by John Schott near Pocahontas in Pocahontas County, Richard Bertram near Holland in Grundy County, and Dave Broghammer near Manchester in Delaware County. Field data are presented in Table A.

Table A. Field Data

	Schott Farm Clarion Webster loam			Bertram Farm* Tama-Muscatine			Broghammer Farm Kenyon loam		
Fertilizer applied, lb.	N	P_2O_5	K_2O	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Plowdown	160	80	100	14	68	81	—	—	90
Preplant	—	—	—	140	—	—	160	—	—
Starter	—	—	—	—	—	—	8	26	—
Total	160	80	100	154	68	81	168	26	90
2003 crop	Soybeans			Soybeans			Soybeans		
Row width	30 inches			30 inches			30 inches		
Planting date	May 1			April 29			May 4		
Harvest date	Oct. 8			Nov. 3–5			Oct. 19		
Average yield	205 bu/a			214 bu/a			204 bu/a		

*Field sampled for protein, oil, and starch percentage data.

Other Reports

Separate reports are available for each district shown in Figure 1. A limited supply of these publications is available at your county extension office or from Extension Distribution Center, 119 Printing and Publications Building, Iowa State University, Ames, Iowa 50011. Also, these data are available along with a hybrid selection program as a part of the Iowa Crop Management Database program. Along with all of the information as it appears in these written reports, the section of the Iowa Crop Management Database program that uses these data allows farmers to insert their own drying and shrink costs, expected price of corn, and final moisture percentage after drying. Using these specific criteria, the program calculates an adjusted economic value for each hybrid in the test. Farmers can then determine which hybrids might best fit their own production practices and provide the most profit. The computer program also can sort the hybrids by yield, moisture, adjusted value, root lodging, stalk lodging, dropped ears, protein, oil, starch, or brand and then print the data as sorted. It will also allow the user to tag selected hybrids and then list those selected hybrids as a new table for ease of viewing. A Pentium 1 computer or higher running Windows 95 or newer with a CD ROM drive and 30 megabytes of hard disk space are required to run the program. The cost of the program is a onetime purchase of $100. Future years' data can be downloaded from the Web at no charge. If the user cannot access the Web to download the new data, the price will be $25 for all seven districts' data. Order forms and a description of the program are available from Agribusiness Education Programs, telephone 515-294-6429 and on the Web at http://extension.agron.iastate.edu/CMD/.

The *2004 Iowa Crop Performance Test—Corn:*
PM 660 1 04 District 1
PM 660 2 04 District 2
PM 660 3 04 District 3
PM 660 4 04 District 4
PM 660 5 04 District 5
PM 660 6 04 District 6
PM 660 7 04 District 7

File: Agronomy 2-2

Prepared by Kendall R. Lamkey, W. H. Vinson, and C. J. Turnbull. Pioneer distinguished chair in maize breeding, technician, and graduate student.

Cooperating Organizations
Iowa Crop Improvement Association
Agriculture & Home Economics Experiment Station
Iowa State University Extension
Iowa Corn Promotion Board
U.S. Department of Agriculture

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Stanley R. Johnson, director, Cooperative Extension Service, Iowa State University of Science and Technology, Ames, Iowa.

Table 1A. 25 Top Yielding Hybrids Sorted by Harvest Moisture—District 3. 30,000 Planting Rate. LSD for 2004 Yield in Bushels is 10, for 2003 is 9, and for 2002 is 11. 2004 Protein Pct LSD = 0.3. 2004 Oil Pct LSD = 0.3. 2004 Starch Pct LSD = 0.5.

			Yield Bu/A			Moisture Pct			Root Ldg Pct			Stalk Ldg Pct			Drop Ear Pct			Stand Pct			Protein Pct			Oil Pct			Starch Pct				
Brand	>Variety	Notes	2002	2003	2004	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	>Variety	Brand
Thompson/NuTech	>4202YGCB	GI			215	18.4			1			4			0			86			7.3			3.5			60.6			>4202YGCB	Thompson/NuTech
! Pioneer	>36B08	I	191	187	218	19.0	15.8	18.2	0	0	3	1	2	2	0	0	0	94	95	94	8.3	8.1	7.8	3.4	3.4	3.3	59.4	60.7	61.1	>36B08	! Pioneer
Jacobsen	>J54350CB	GI			216	19.5			0			0			0			92			7.5			3.2			60.8			>J54350CB	Jacobsen
$ Pioneer	>35Y65	I			218	19.9			0			1			0			91			8.0			3.4			60.4			>35Y65	$ Pioneer
#Thompson/NuTech	>4412YGCB	GI			226	21.2			2			0			0			85			7.9			3.6			59.8			>4412YGCB	#Thompson/NuTech
#DEKALB	>DKC60-18RRYG	GI	216	191	221	21.6	18.9	20.5	1	0	1	1	1	2	0	0	0	92	94	92	7.4	7.2	6.5	3.3	3.3	3.4	60.6	61.3	61.9	>DKC60-18RRYG	#DEKALB
#M/W Genetics	>G7600BI	GI			221	21.7			0			0			0			82			8.6			3.7			59.5			>G7600BI	#M/W Genetics
HighCycle by Font.	>HC7630YGCB	GI			218	21.8			7			1			0			84			7.9			3.7			59.8			>HC7630YGCB	HighCycle by Font.
#Thompson/NuTech	>313	GI			216	22.0			1			1			0			85			7.8			3.3			60.1			>313	#Thompson/NuTech
#Kruger	>8316YGCB	GI		186	224	22.0	16.2		0	0		1	2		0	0		88	85		7.6	7.3		3.6	3.6		60.0	60.5		>8316YGCB	#Kruger
HighCycle by Treloy	>HC7748YGCB	GI		185	220	22.1	17.7		3	0		4	6		0	0		85	85		7.6	7.2		4.1	4.0		59.5	60.6		>HC7748YGCB	HighCycle by Treloy
#Middlekoop	>2211	I			220	22.1			0			2			0			88			7.2			3.6			60.2			>2211	#Middlekoop
$Pioneer	>34N31	I			218	22.3			1			6			0			91			8.8			3.3			60.0			>34N31	$Pioneer
Merschman	>M20106	GI	218	188	217	22.3	16.9	18.1	3	0	14	1	1	1	1	0	0	94	95	93	8.0	7.9	7.5	3.7	3.5	3.6	59.7	60.6	60.9	>M20106	Merschman
Kruger	>9111YGCB	GI			217	22.4			8			1			0			88			7.9			3.7			59.7			>9111YGCB	Kruger
#Epley	>E3220YGCB	G			217	22.8			0			0			0			83			7.3			3.6			60.4			>E3220YGCB	#Epley
KSC/Challenger	>9212YGCB	GI			215	22.9			4			4			0			84			7.3			3.6			60.2			>9212YGCB	KSC/Challenger
Hobart	>4411	I			215	22.9			2			4			0			85			7.7			3.8			59.7			>4411	Hobart
#Cornelius	>C637YG	GI	208	187	216	22.9	17.0	18.6	6	6	2	0	1	0	0	0	0	96	96	94	7.2	7.0	6.6	3.4	3.5	3.6	60.6	61.1	61.7	>C637YG	#Cornelius
#Middlekoop	>3311BI	GI		187	225	23.0	16.8		0	0		0	1		0	0		93	95		7.1	6.8		3.6	3.5		60.5	61.2		>3311BI	#Middlekoop
Hobart	>4850	I	186	181	220	23.5	17.8	20.0	5	0	2	2	1	2	0	0	1	92	94	90	7.3	7.2	6.6	3.7	3.5	3.7	60.2	61.0	61.5	>4850	Hobart
Thompson/NuTech	>2414HX	GI			215	24.1			1			1			0			88			8.2			4.0			59.1			>2414HX	Thompson/NuTech
Rainbow	>3100YGCB	G	183	188	217	24.3	19.8	21.2	2	0	6	0	1	2	0	0	0	89	94	93	7.2	7.3	6.9	3.4	3.5	3.6	60.8	61.0	61.4	>3100YGCB	Rainbow
Rainbow	>X1103YGCB	G			227	24.7			5			2			0			83			7.3			3.7			60.2			>X1103YGCB	Rainbow
Kruger	>9416YGCB	GI			218	24.8			4			2			0			82			7.6			3.8			59.8			>9416YGCB	Kruger
Mark	>MRKEXBI111tr	GI			215	24.9			8			3			0			88			7.5			3.6			60.1			>MRKEXBI111tr	Mark
#Channel Bio Corp	>X11108I	GI			225	25.0			11			2			0			88			7.7			3.6			59.8			>X11108I	#Channel Bio Corp
Ag Source	>6273	G			215	25.2			6			3			0			94			7.6			3.7			59.9			>6273	Ag Source
Hobart	>4412	I			218	25.6			1			2			0			91			7.2			3.7			60.2			>4412	Hobart
KSC/Challenger	>9115YGCB	GI			218	25.8			5			1			0			92			7.2			3.5			60.7			>9115YGCB	KSC/Challenger
Average of All Entries			194.9	183.9	207.8	21.5	17.0	18.8	4.3	0.0	6.5	1.6	2.0	1.4	0.0	0.0	0.1	91.7	94.6	93.6	7.7	7.5	7.2	3.6	3.5	3.6	60.0	60.7	61.1	Average of All Entries	
Average of All Check Hybrids			190.2	181.1	208.3	19.6	16.3	18.1	0.7	0.0	2.2	1.2	1.3	1.6	0.0	0.0	0.2	93.0	94.2	93.9	7.9	7.7	7.5	3.5	3.5	3.6	60.0	60.6	60.9	Average of All Check Hybrids	

G = Transgenic Hybrid. I = Use of Insecticide Seed Treatment.
$ = Check Hybrid Entered by the Iowa Crop Improvement Association.
! = Short Check Hybrid Grown in Short Blocks.
= Hybrid Entered as a Short Hybrid and Grown in Short Blocks.
> = One of the Top 25 Yielding Hybrids.

Table 1. Average Performance of Varieties Tested in District 3. 30,000 Planting Rate. LSD for 2004 Yield in Bushels is 10, for 2003 is 9, and for 2002 is 11. 2004 Protein Pct LSD = 0.3. 2004 Oil Pct LSD = 0.3. 2004 Starch Pct LSD = 0.5.

			Yield Bu/A			Moisture Pct			Root Ldg Pct			Stalk Ldg Pct			Drop Ear Pct			Stand Pct			Protein Pct			Oil Pct			Starch Pct				
Brand	>Variety	Notes	2002	2003	2004	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	2004	2003	2002	>Variety	Brand
$NK Brand	N45-A6	GI			201	18.3			0			0			0			88			7.2			3.6			60.4			N45-A6	NK Brand
DEKALB	DKC58-20RRYG	GI			196	16.8			0			1			0			89			7.3			3.5			60.2			DKC58-20RRYG	DEKALB
DEKALB	DKC52-21YGCB	GI			201	17.7			0			1			0			92			7.5			3.7			60.1			DKC52-21YGCB	DEKALB
Hobart	4403	I			190	17.9			0			1			0			92			7.8			3.6			59.7			4403	Hobart
Epley	E1475RR	G			193	18.1			1			1			0			94			7.8			3.4			60.2			E1475RR	Epley
DEKALB	DKC54-51YGCB	GI			202	18.1			1			6			0			93			7.7			3.7			58.9			DKC54-51YGCB	DEKALB
Jung	6580YGCB	GI	188	173	190	18.1	14.9	17.2	0	0	0	2	1	0	0	0	0	96	96	94	7.8	7.7	6.8	4.0	3.8	3.8	59.6	60.4	61.1	6580YGCB	Jung
#Epley	E1442				211	18.2			0			1			0			90			7.7			3.5			60.3			E1442	#Epley
Epley	E1460RR	G			202	18.2			1			5			0			92			7.8			3.6			60.0			E1460RR	Epley
Thompson/NuTech	>4202YGCB	GI			215	18.2			1			4			0			86			7.3			3.5			60.6			>4202YGCB	Thompson/NuTech
SDI	103YGCB	GI		186	190	18.4	14.6		1	0		1	1		0	0		87	97		7.9	7.6		3.6	3.6		59.9	60.5		103YGCB	SDI
$DEKALB	DKC53-32YGCB	GI		179	202	18.5	16.2		1	0		1	1		0	0		96	95		7.5	7.6		3.5	3.4		60.3	60.6		DKC53-32YGCB	$DEKALB
Renze	9185YGCB/RR	GI			205	18.6			0			0			0			84			7.8			3.5			60.0			9185YGCB/RR	Renze
Renze	8235HX1	GI			208	18.6			1			3			0			90			7.5			3.8			60.0			8235HX1	Renze
Thompson Seeds	5101RR/YGCB	GI			209	18.7			0			1			0			93			7.8			3.7			59.8			5101RR/YGCB	Thompson Seeds
#Merschman	M21104	GI		179	201	18.7	14.5		8	0		1	1		0	0		90	93		8.4	8.1		3.6	3.5		58.3	60.2		M21104	#Merschman
#Middlekoop	1207	I	161	180	205	18.7	14.6	18.3	0	0	2	1	1	2	0	0	0	89	95	91	8.2	7.7	7.6	3.5	3.4	3.4	58.7	60.4	60.8	1207	#Middlekoop
NK Brand	N50-P5	GI			205	18.8			0			2			0			95			7.9			3.7			59.6			N50-P5	NK Brand
#Stine	6518YGCB	GI			190	18.8			1			0			0			82			8.4			3.4			59.5			6518YGCB	#Stine
Thompson Seeds	EX205YGCB	GI			211	18.8			12			3			0			82			7.9			3.7			59.8			EX205YGCB	Thompson Seeds
Thompson Seeds	EX184AYGCB	GI			212	18.8			6			0			0			80			7.4			3.7			60.9			EX184AYGCB	Thompson Seeds
! Pioneer	>36B08	I	191	187	218	19.0	15.8	18.2	0	0	3	1	2	2	0	0	0	94	95	94	8.3	8.1	7.8	3.4	3.4	3.3	59.4	60.7	61.1	>36B08	! Pioneer
$DEKALB	DKC53-34RRYG	GI			206	19.0			2			2			0			96			7.6			3.5			60.1			DKC53-34RRYG	DEKALB
Dairyland	DST10562				208	19.0			9			3			0			91			8.0			3.6			59.5			DST10562	Dairyland
#Corn Belt	C5458I	GI			201	19.0			10			1			0			84			8.5			3.4			59.3			C5458I	#Corn Belt
Jung	6545YGCB	GI		187	212	19.0	14.9		1	0		1	6		0	0		94	90		7.4	7.2		3.6	3.5		60.5	60.9		6545YGCB	Jung
Kruger	9405YGCB	GI			202	19.1			7			6			0			90			7.5			3.8			60.2			9405YGCB	Kruger
Merschman	M5048-1	GI			208	19.1			11			0			0			83			7.5			3.6			60.2			M5048-1	Merschman
Renk	RK680	I			193	19.2			0			5			0			97			7.6			3.4			60.5			RK680	Renk
Ag Source	5393	G			206	19.2			3			1			0			85			7.4			3.6			60.0			5393	Ag Source
#Cornelius	C443YG	GI		186	208	19.2	15.4		0	0		4	6		0	0		93	96		7.8	7.5		3.6	3.5		59.9	60.7		C443YG	#Cornelius
HighCycle by Font.	HC7637YGCB	GI			197	19.3			7			5			0			88			8.4			3.7			58.6			HC7637YGCB	HighCycle by Font.
Golden Harvest	H8240BI	GI			201	19.3			2			1			0			86			8.4			3.7			59.4			H8240BI	Golden Harvest
KSC/Challenger	5305YGCB	GI			197	19.3			4			0			0			79			8.2			3.7			59.4			5305YGCB	KSC/Challenger
Golden Harvest	EX4833BBt	GI			211	19.3			5			1			0			90			7.2			3.6			60.4			EX4833BBt	Golden Harvest
#HighCycle by Font.	HC6R601	GI			202	19.4			1			1			0			88			8.0			3.5			59.7			HC6R601	#HighCycle by Font.
Access Seed	585	GI			202	19.4			0			2			0			84			8.0			3.5			59.8			585	Access Seed
Access Seed	A1500RR	GI			218	19.4			2			0			0			88			8.0			3.6			59.8			A1500RR	Access Seed
Jacobsen	>J54350CB	GI			216	19.5			0			0			0			92			7.5			3.2			60.8			>J54350CB	Jacobsen
Merschman	M10108	I	184	178	201	19.5	16.6	18.3	8	0	20	1	6	3	0	0	0	91	95	92	7.5	7.4	7.1	3.3	3.4	3.3	60.2	61.1	61.4	M10108	Merschman
Pfister	1880BI	GI			203	19.6			0			0			0			92			7.7			3.6			60.0			1880BI	Pfister
Trisler	2848	I		188	202	19.6	15.6		5	0		2	5		0	0		92	92		7.3	7.3		3.4	3.3		60.6	61.1		2848	Trisler
$Wyffels	W4828	I	175	188	190	19.6	15.6	18.2	1	6	3	1	2	1	0	0	0	84	88	91	7.9	7.8	7.8	3.7	3.8	3.5	59.8	60.2	60.7	W4828	$Wyffels
Epley	E1430YGCB	G			205	19.6			1			0			0			87			7.4			3.2			60.8			E1430YGCB	Epley
$DEKALB	DKC58-78YGCB	GI	207	188	205	19.6	17.6	18.4	0	6	1	3	1	1	0	0	0	85	96	94	7.9	7.7	8.0	3.6	3.8	4.0	59.6	60.5	60.6	DKC58-78YGCB	$DEKALB
$Pioneer	>35Y65	I			218	19.9			0			1			0			91			8.0			3.4			60.4			>35Y65	$Pioneer
Access Seed	A2506RRYGCB	GI			203	20.0			0			2			0			86			8.2			3.7			59.5			A2506RRYGCB	Access Seed
Renze	6265	I			212	20.0			0			1			0			91			7.4			3.6			60.1			6265	Renze
Hawkeye Hybrid	3858I	G			204	20.0			1			0			0			88			7.3			3.7			59.8			3858I	Hawkeye Hybrid
Epley	E2410YGCB	G			208	20.0			1			0			0			88			7.3			3.8			59.8			E2410YGCB	Epley
Middlekoop	1208	I	186	188	201	20.1	17.8	18.1	5	6	6	1	1	2	0	0	0	92	95	91	7.2	7.2	7.0	3.6	3.6	3.6	60.4	60.9	61.4	1208	Middlekoop
Access Seed	A5410YGCB	GI			207	20.1			5			3			0			84			7.8			3.7			59.7			A5410YGCB	Access Seed
$Golden Harvest	H8562	I			203	20.1			2			1			0			90			8.0			3.7			59.7			H8562	Golden Harvest
Middlekoop	3306Bt	GI		172	201	20.3	17.2		1	0		0	0		0	0		88	85		7.2	7.2		3.6	3.5		60.3	60.9		3306Bt	Middlekoop
Golden Harvest	EX48573	I			202	20.4			1			1			0			88			7.6			3.4			60.3			EX48573	Golden Harvest
DEKALB	DKC57-84YGCB	GI		176	214	20.5	17.2		1	0		3	13		0	0		91	94		7.8	8.1		4.1	3.8		59.4	58.9		DKC57-84YGCB	DEKALB
Golden Harvest	H8410BI	GI			208	20.5			4			0			0			88			7.5			3.6			60.0			H8410BI	Golden Harvest
Trisler	2760RRCB	GI			199	20.5			5			0			0			85			7.3			3.5			60.3			2760RRCB	Trisler
Middlekoop	5306RR	GI			203	20.6			3			1			0			94			6.8			3.7			60.5			5306RR	Middlekoop
Kruger	1807RR	GI			209	20.6			1			1			0			91			8.2			3.9			59.3			1807RR	Kruger
#Stine	6620YGCB	GI			191	20.7			6			7			0			87			7.1			3.5			60.6			6620YGCB	#Stine
Hobart	4140	I	183	178	207	20.8	17.4	18.1	6	0	5	2	3	2	0	0	0	92	88	85	8.1	8.0	7.7	3.9	4.0	3.9	59.3	60.2	60.3	4140	Hobart
Access Seed	A2410RR/YGCB	GI			207	20.9			2			1			0			87			7.6			3.7			59.5			A2410RR/YGCB	Access Seed
Renk	RK760YGCB	GI		190	208	20.9	17.4		0	0		2	1		0	0		85	89		7.3	7.4		3.6	3.6		60.2	60.7		RK760YGCB	Renk
Thompson/NuTech	4407YGCB	GI			209	21.0			2			4			0			86			8.0			3.9			59.3			4407YGCB	Thompson/NuTech
Renze	9283YGCB/RR	GI			203	21.0			1			1			0			83			8.0			4.1			59.8			9283YGCB/RR	Renze
$NK Brand	N58-D8	I	186	182	213	21.0	16.6	17.6	1	0	2	1	1	3	0	0	1	95	95	88	7.3	7.2	6.8	3.8	3.5	3.5	60.3	61.1	61.6	N58-D8	$NK Brand
KSC/Challenger	5210YGCB	GI			202	21.1			0			4			0			88			7.8			4.0			59.2			5210YGCB	KSC/Challenger
KSC/Challenger	8308RR/YGCB	GI			204	21.2			6			1			0			84			8.8			3.8			59.6			8308RR/YGCB	KSC/Challenger
#Thompson/NuTech	>4412YGCB	GI			226	21.2			2			0			0			85			7.9			3.6			59.8			>4412YGCB	#Thompson/NuTech
Renze	6261YGCB	GI	201	185	201	21.3	17.4	18.3	3	0	10	1	2	0	0	0	0	91	95	94	7.9	7.9	7.7	3.6	3.6	3.6	60.0	60.5	60.7	6261YGCB	Renze
#HighCycle by Treloy	HC78306	GI			210	21.3			7			1			0			82			7.6			3.5			60.3			HC78306	#HighCycle by Treloy
#HighCycle by Treloy	HC7782YGCB	GI	190	190	202	21.3	16.4	18.8	10	6	7	0	1	6	0	0	0	88	83	85	8.3	7.8	7.5	3.5	3.5	3.5	59.5	60.3	60.6	HC7782YGCB	#HighCycle by Treloy
PSA Genetics	7947YG1	G			214	21.4			2			1			0			88			7.7			3.6			60.2			7947YG1	PSA Genetics
Kruger	8407HX	GI			211	21.4			2			1			0			90			7.8			4.0			59.5			8407HX	Kruger
Kruger	5110YGCB	GI			207	21.4			2			4			0			88			8.2			3.9			59.4			5110YGCB	Kruger
Golden Harvest	H8673BI	GI			208	21.4			2			0			0			84			8.8			3.6			59.9			H8673BI	Golden Harvest
Corn Belt	C5768t	G		190	190	21.5	17.1		1	0		0	1		0	0		83	94		8.4	7.6		3.5	3.5		59.7	60.9		C5768t	Corn Belt
NK Brand	N60-B6	GI			212	21.6			0			6			0			86			7.8			3.5			60.7			N60-B6	NK Brand
M/W Genetics	G7622BI	GI			207	21.6			1			0			0			85			7.8			3.6			60.1			G7622BI	M/W Genetics
#DEKALB	>DKC60-18RRYG	GI	216	191	221	21.6	18.9	20.5	1	0	1	1	1	2	0	0	0	92	94	92	7.4	7.2	6.5	3.3	3.3	3.4	60.6	61.3	61.9	>DKC60-18RRYG	#DEKALB
Dairyland	ST1709				196	21.6			11			3			0			92			8.1			3.8			58.7			ST1709	Dairyland
Thompson Seeds	4505YGCB	GI			197	21.6			6			6			0			85			7.9			3.9			59.5			4505YGCB	Thompson Seeds
KSC/Challenger	8507YGCB	GI			203	21.7			4			1			0			90			7.7			3.5			60.3			8507YGCB	KSC/Challenger
#M/W Genetics	>G7600BI	GI			221	21.7			0			0			0			82			8.6			3.7			59.5			>G7600BI	#M/W Genetics
Renze	5348HX1	GI			208	21.7			2			1			0			88			7.6			3.8			59.5			5348HX1	Renze
Epley	E2480YGCB	G	207	188	207	21.7	18.7	18.3	6	0	11	1	2	1	0	0	0	83	86	83	8.1	8.0	7.6	3.5	3.7	3.7	58.8	60.5	60.6	E2480YGCB	Epley
Thompson Seeds	EX308YGCB	GI			208	21.7			3			0			0			83			7.6			3.5			60.3			EX308YGCB	Thompson Seeds
KSC/Challenger	9010YGCB	GI			208	21.8			2			0			0			85			8.0			3.7			59.7			9010YGCB	KSC/Challenger
Pfister	2326BI	GI		177	206	21.8	15.9		3	0		1	2		0	0		91	97		8.1	7.9		3.5	3.5		59.7	60.5		2326BI	Pfister
Thompson/NuTech	608	I			196	21.8			13			7			0			88			8.8			3.8			59.7			608	Thompson/NuTech
HighCycle by Font.	>HC7630YGCB	GI			218	21.8			7			1			0			84			7.9			3.7			59.8			>HC7630YGCB	HighCycle by Font.
#Golden Harvest	H8877BI	GI			211	21.8			4			0			0			83			8.4			3.5			59.3			H8877BI	#Golden Harvest
Dairyland	ST1507BI	GI			190	21.8			7			1			0			80			8.2			3.5			59.6			ST1507BI	Dairyland
Cornelius	C405YG	GI		186	210	21.9	16.7		7	0		5	3		0	0		82	87		7.8	7.5		3.9	3.9		58.6	60.0		C405YG	Cornelius
#Thompson/NuTech	>313	GI			216	22.0			1			1			0			85			7.8			3.3			60.1			>313	#Thompson/NuTech
Cornelius	C580YG	GI	206	186	214	22.0	17.5	18.4	2	0	14	0	1	1	0	0	0	92	88	88	8.1	7.7	7.7	3.4	3.6	3.5	60.0	60.6	60.8	C580YG	Cornelius
#Kruger	>8316YGCB	GI		186	224	22.0	16.2		0	0		1	2		0	0		88	85		7.6	7.3		3.6	3.6		60.0	60.5		>8316YGCB	#Kruger
Channel Bio Corp	7624RRBI	GI			208	22.0			4			1			0			93			8.8			3.7			59.8			7624RRBI	Channel Bio Corp
Garst	8553RR	G			214	22.0			0			1			0			91			7.1			3.4			60.7			8553RR	Garst
HighCycle by Treloy	>HC7748YGCB	GI		185	220	22.1	17.7		3	0		4	6		0	0		85	85		7.6	7.2		4.1	4.0		59.5	60.6		>HC7748YGCB	HighCycle by Treloy
#Middlekoop	>2211	I			220	22.1			0			2			0			88			7.2			3.6			60.2			>2211	#Middlekoop
A+ Seeds	5167BI	G	198	181	214	22.2	18.5	18.5	3	0	12	0	0	1	0	0	0	88	85	85	8.2	7.8	7.4	3.4	3.5	3.6	59.8	60.7	61.0	5167BI	A+ Seeds
Renk	RK877YGCB	GI			207	22.3			12			1			0			82			7.5			3.5			60.4			RK877YGCB	Renk
$Pioneer	>34N31	I			218	22.3			1			6			0			91			8.8			3.3			60.0			>34N31	$Pioneer
Merschman	>M20106	GI	219	188	217	22.3	16.9	18.1	3	0	14	1	1	1	1	0	0	94	95	93	8.0	7.9	7.5	3.7	3.5	3.6	59.7	60.6	60.9	>M20106	Merschman
PSA Genetics	7551IT				214	22.4			3			0			0			81			7.3			3.4			60.4			7551IT	PSA Genetics
Kruger	>9111YGCB	GI			217	22.4			8			1			0			88			7.9			3.7			59.7			>9111YGCB	Kruger
Channel Bio Corp	X1081BI	GI			195	22.4			16			3			0			84			8.8			3.5			59.9			X1081BI	Channel Bio Corp
Ag Source	5683	G			208	22.4			12			3			0			81			8.8			3.4			60.0			5683	Ag Source
Thompson/NuTech	EX713YGCB	GI			208	22.4			17			3			0			91			7.9			3.3			60.2			EX713YGCB	Thompson/NuTech
Rainbow	3465YGCB	G	218	187	208	22.4	17.5	18.5	4	0	10	1	2	1	0	0	0	83	96	97	8.1	7.7	7.6	3.6	3.5	3.7	58.8	60.7	60.5	3465YGCB	Rainbow
Thompson/NuTech	4013YGCB	GI			205	22.5			5			3			0			95			8.0			4.1			59.2			4013YGCB	Thompson/NuTech
Epley	E3223		197	186	211	22.5	17.2	19.3	4	0	13	2	4	2	0	1	1	91	96	93	7.3	7.4	6.8	3.6	3.5	3.5	60.4	60.6	61.4	E3223	Epley
Kruger	9512YGCB	GI			208	22.5			15			3			0			87			7.9			3.2			60.2			9512YGCB	Kruger
Rainbow	3125YGCB	G			208	22.5			11			0			0			82			7.7			3.8			60.0			3125YGCB	Rainbow
Trisler	5160CB	GI			208	22.6			15			3			0			90			7.8			3.4			60.2			5160CB	Trisler
Rainbow	3120YGCB	G		191	206	22.6	18.0		8	0		2	2		0	0		91	92		7.4	7.3		3.6	3.5		60.4	60.9		3120YGCB	Rainbow
KSC/Challenger	8511	I			204	22.6			4			2			0			89			7.9			3.7			59.8			8511	KSC/Challenger
Golden Harvest	H9006BI	GI			211	22.6			8			4			0			82			7.4			3.7			60.3			H9006BI	Golden Harvest
Renk	RK878YGCB	GI		193	214	22.6	18.1		8	0		3	3		0	0		92	92		7.4	7.5		3.7	3.5		60.2	60.7		RK878YGCB	Renk
Merschman	M508C	I			201	22.7			6			3			0			88			7.9			3.6			59.8			M508C	Merschman
Epley	E3640YGCB	G			211	22.7			4			5			0			88			7.6			3.3			60.6			E3640YGCB	Epley
#Kruger	9410YGCB	GI	184	182	214	22.7	17.5	20.0	1	0	2	0	0	1	0	0	0	94	95	97	7.4	7.0	6.7	3.5	3.4	3.5	60.3	61.3	61.6	9410YGCB	#Kruger
#Epley	>E3220YGCB	G			217	22.8			0			0			0			83			7.3			3.6			60.4			>E3220YGCB	#Epley
Crows	4811Bt	GI		186	205	22.8	17.4		7	0		1	4		0	0		84	83		7.2	7.6		3.7	3.6		60.2	60.6		4811Bt	Crows
#KSC/Challenger	9418YGRW	GI			203	22.8			0			1			0			82			7.1			3.5			60.6			9418YGRW	#KSC/Challenger
PSA Genetics	7682YG1	G			216	22.8			5			2			0			88			7.1			3.8			60.4			7682YG1	PSA Genetics
Dairyland	ST9811	GI			208	22.8			7			1			0			91			7.2			3.6			60.4			ST9811	Dairyland
Cornelius	C635YG	GI			212	22.8			7			2			0			83			7.4			3.7			60.0			C635YG	Cornelius
Stine	9616HX	GI			190	22.8			0			1			0			89			8.3			3.6			59.6			9616HX	Stine
KSC/Challenger	>9212YGCB	GI			215	22.9			4			4			0			84			7.3			3.6			60.2			>9212YGCB	KSC/Challenger
Hobart	>4411	I			215	22.9			2			4			0			85			7.7			3.8			59.7			>4411	Hobart
#Cornelius	>C637YG	GI	208	187	216	22.9	17.0	18.6	6	6	2	0	1	0	0	0	0	96	96	94	7.2	7.0	6.6	3.4	3.5	3.6	60.6	61.1	61.7	>C637YG	#Cornelius
Ag Source	6163	GI			205	22.9			13			1			0			92			7.4			3.5			60.3			6163	Ag Source
#Middlekoop	>3311BI	GI		187	225	23.0	16.8		0	0		0	1		0	0		93	95		7.1	6.8		3.6	3.5		60.5	61.2		>3311BI	#Middlekoop
Thompson/NuTech	4711YGPLUS	GI			214	23.0			7			0			0			84			8.1			3.7			59.4			4711YGPLUS	Thompson/NuTech
Pfister	2856BI	GI		190	214	23.2	18.5		8	0		1	2		0	0		93	94		7.3	7.4		3.5	3.5		60.4	60.8		2856BI	Pfister
HighCycle by Treloy	HC78445	GI			208	23.2			6			0			0			88			8.1			3.5			59.6			HC78445	HighCycle by Treloy
Kruger	2512RR/YGCB	GI			212	23.2			15			1			0			82			7.4			3.7			60.2			2512RR/YGCB	Kruger
Trisler	5244CB	GI		188	212	23.2	18.1		0	0		2	1		0	0		82	84		7.6	7.4		3.6	3.6		60.2	60.9		5244CB	Trisler
M/W Genetics	G7716BI	GI		185	190	23.3	17.5		7	0		3	2		0	0		86	93		7.5	7.5		3.6	3.5		60.2	60.9		G7716BI	M/W Genetics
Renze	9383YGCB/RR	GI		190	203	23.3	17.6		9	0		2	3		0	0		93	94		7.5	7.4		3.8	3.6		59.8	60.7		9383YGCB/RR	Renze
Hobart	>4850	I	186	181	220	23.5	17.8	20.0	5	0	2	2	1	2	0	0	1	92	94	90	7.3	7.2	6.6	3.7	3.5	3.7	60.2	61.0	61.5	>4850	Hobart
Channel Bio Corp	7808RRBI	GI			204	23.5			15			1			0			88			7.4			3.8			60.1			7808RRBI	Channel Bio Corp
Renze	3364YGPL	GI			208	23.8			8			2			0			87			7.7			3.6			60.1			3364YGPL	Renze
Stine	9720YGCB	GI			208	24.0			3			1			0			81			7.4			3.4			60.3			9720YGCB	Stine
Rainbow	3099YGCB	G			207	24.0			13			3			0			82			7.8			3.5			60.1			3099YGCB	Rainbow
Thompson/NuTech	>2414HX	GI			215	24.1			1			1			0			88			8.2			4.0			59.1			>2414HX	Thompson/NuTech
Kruger	8212RR/YGCB	GI			212	24.2			18			3			0			84			7.4			3.7			60.0			8212RR/YGCB	Kruger
Rainbow	>3100YGCB	G	183	188	217	24.3	19.8	21.2	2	0	6	0	1	2	0	0	0	89	94	93	7.2	7.3	6.9	3.4	3.5	3.6	60.8	61.0	61.4	>3100YGCB	Rainbow
Mark	MRKEXLLBI113T	GI			212	24.3			2			1			0			88			8.2			4.1			59.2			MRKEXLLBI113T	Mark
Epley	E3830YGCB	G	195	185	211	24.4	19.9	21.3	4	0	4	3	0	5	0	0	0	90	95	94	7.2	7.1	6.9	3.5	3.5	3.6	60.5	61.0	61.3	E3830YGCB	Epley
Stine	9621	I			204	24.5			1			5			0			83			7.3			3.5			60.2			9621	Stine
Cornelius	C584	I			206	24.6			1			1			0			88			7.4			3.9			59.9			C584	Cornelius
Rainbow	>X1103YGCB	G			227	24.7			5			2			0			83			7.3			3.7			60.2			>X1103YGCB	Rainbow
DEKALB	DKC61-45RRYG	GI			211	24.7			1			1			0			81			6.9			3.3			60.9			DKC61-45RRYG	DEKALB
Kruger	>9416YGCB	GI			218	24.8			4			2			0			82			7.6			3.8			59.8			>9416YGCB	Kruger
Dairyland	ST9814	G			212	24.8			6			2			0			82			7.5			3.7			59.8			ST9814	Dairyland
Mark	>MRKEXBI111tr	GI			215	24.9			8			3			0			88			7.5			3.6			60.1			>MRKEXBI111tr	Mark
#Channel Bio Corp	>X11108I	GI			225	25.0			11			2			0			88			7.7			3.6			59.8			>X11108I	#Channel Bio Corp
#Renk	4-900YGCB	GI			207	25.0			17			1			0			93			8.2			3.7			59.3			4-900YGCB	#Renk
Hobart	4411HX	GI			208	25.1			1			1			0			80			8.2			4.0			59.0			4411HX	Hobart
Ag Source	>6273	G			215	25.2			8			3			0			94			7.6			3.7			59.9			>6273	Ag Source
Thompson Seeds	4313AYGCB	GI			208	25.6			0			0			0			88			7.5			3.7			60.1			4313AYGCB	Thompson Seeds
Hobart	>4412	I			218	25.6			1			2			0			91			7.2			3.7			60.2			>4412	Hobart
Rainbow	3135YGCB	G		180	209	25.7	20.9		11	0		1	3		0	0		92	90		7.2	7.6		3.7	3.4		60.2	61.1		3135YGCB	Rainbow
Kruger	8516HX	GI			213	25.8			0			1			0			91			8.2			3.7			59.4			8516HX	Kruger
KSC/Challenger	>9115YGCB	GI			218	25.8			5			1			0			92			7.2			3.5			60.7			>9115YGCB	KSC/Challenger
Thompson/NuTech	4213YGCB	GI			208	26.3			1			1			0			84			7.5			3.4			60.1			4213YGCB	Thompson/NuTech
Average of All Entries			194.9	183.9	207.8	21.5	17.0	18.8	4.3	0.0	6.5	1.6	2.0	1.4	0.0	0.0	0.1	91.7	94.6	93.6	7.7	7.5	7.2	3.6	3.5	3.6	60.0	60.7	61.1	Average of All Entries	
Average of Check Hybrids			190.2	181.1	208.3	19.6	16.3	18.1	0.7	0.0	2.2	1.2	1.3	1.6	0.0	0.0	0.2	93.0	94.2	93.9	7.9	7.7	7.5	3.5	3.5	3.6	60.0	60.6	60.9	Average of Check Hybrids	

G = Transgenic Hybrid. I = Use of Insecticide Seed Treatment.
$ = Check Hybrid Entered by the Iowa Crop Improvement Association.
! = Short Check Hybrid Grown in Short Blocks.
= Hybrid Entered as a Short Hybrid and Grown in Short Blocks.
> = One of the Top 25 Yielding Hybrids.

With the quick development of new hybrids today, it is becoming more difficult for growers to view several years of data on each hybrid to help them decide which hybrids to select for planting the following year. The next best thing is to look at hybrids' performances across several locations in one year. So, data from additional location groupings along with the standard district groupings are provided on the Iowa Crop Improvement Association's Web page at http://www.agron.iastate.edu/icia/. These additional tables, summarizing data across districts, make it possible to look at hybrids' performances averaged across more locations than in the past to help predict which hybrids may have the best relative performance potential under next year's growing conditions. These 18 tables double or triple the number of locations reflected in each hybrid's performance data.

Table 2. Averages of 2003-04 (2-Year) and 2002-04 (3-Year) of Varieties Tested in District 3.
LSD for Yields Are 6 Bushels for 02-04 (3-Year) and 7 Bushels for 03-04 (2-Year).

3-Year Protein LSD = 0.2. 3-Year Oil LSD = 0.1. 3-Year Starch LSD = 0.3.
2-Year Protein LSD = 0.3. 2-Year Oil LSD = 0.1. 2-Year Starch LSD = 0.3.

			Yield Bu/A		Moisture Pct		Root Ldg Pct		Stalk Ldg Pct		Drop Ear Pct		Stand Pct		Protein Pct		Oil Pct		Starch Pct			
Brand	Variety	Notes	3 Year	2 Year	2 Year	3 Year	3 Year	2 Year	3 Year	2 Year	3 Year	2 Year	3 Year	2 Year	3 Year	2 Year	3 Year	2 Year	3 Year	2 Year	Variety	Brand
SOi	103YGCB	GI		193	16.5			0		1		0		92		7.7		3.6		60.2	103YGCB	SOi
Jung	6580YGCB	GI	187	186	16.5	16.7	0	0	1	1	0	0	95	96	7.5	7.8	3.8	3.8	60.5	60.1	6580YGCB	Jung
#Merschman	M21104	GI		190	16.6			4		1		0		91		8.2		3.5		59.8	M21104	#Merschman
#Middlekoop	1207	I	189	193	16.7	17.3	1	0	1	1	0	0	92	92	7.8	7.9	3.5	3.5	60.3	60.1	1207	#Middlekoop
Jung	6545YGCB	GI		200	17.0			0		0		0		96		7.3		3.5		60.7	6545YGCB	Jung
#Cornelius	C443YG	GI		194	17.3			0		0		0		95		7.6		3.5		60.3	C443YG	#Cornelius
!Pioneer	36B08	I	198	202	17.4	17.6	1	0	1	1	0	0	94	94	8.1	8.2	3.4	3.4	60.5	60.3	36B08	!Pioneer
$DEKALB	DKC53-32YGCB	GI		191	17.4			1		1		0		95		7.6		3.4		60.5	DKC53-32YGCB	$DEKALB
$Wyffels	W4828	I	182	183	17.7	17.8	1	0	1	1	0	0	92	92	7.8	7.9	3.5	3.6	60.2	60.0	W4828	$Wyffels
Trisler	2949	I		185	17.7			3		3		0		92		7.3		3.4		60.9	2949	Trisler
Merschman	M10108	I	186	186	18.1	18.2	9	4	3	4	0	0	93	93	7.3	7.4	3.3	3.4	60.9	60.7	M10108	Merschman
Middlekoop	1206	I	183	190	18.5	18.4	4	2	1	1	0	0	93	94	7.1	7.2	3.6	3.6	60.9	60.6	1206	Middlekoop
$NK Brand	N59-Q9	I	194	197	18.5	18.3	1	0	2	1	0	0	96	95	7.2	7.4	3.6	3.7	61.0	60.7	N59-Q9	$NK Brand
Middlekoop	3306Bt	GI		186	18.8			1		0		0		92		7.2		3.5		60.6	3306Bt	Middlekoop
DEKALB	DKC57-84YGCB	GI		195	18.8			0		8		0		92		7.9		4.0		59.7	DKC57-84YGCB	DEKALB
#HighCycle by Trelay	HC7782YGCB	GI	197	196	18.8	19.1	6	5	1	1	0	0	92	91	7.9	8.1	3.5	3.5	60.1	59.9	HC7782YGCB	#HighCycle by Trelay
Pfister	2326Bt	GI		192	18.8			1		1		0		94		8.0		3.5		60.1	2326Bt	Pfister
$DEKALB	DKC58-78YGCB	GI	200	197	18.8	18.6	0	0	1	2	0	0	95	95	7.8	7.8	3.7	3.6	60.1	60.1	DKC58-78YGCB	$DEKALB
#Kruger	9310YGCB	GI		205	19.1			0		1		0		95		7.5		3.6		60.2	9310YGCB	#Kruger
Hobart	4140	I	193	193	19.1	18.8	2	0	2	3	0	0	94	94	7.6	7.5	3.9	3.9	59.9	59.8	4140	Hobart
Renk	RK789YGCB	GI		198	19.2			0		1		0		92		7.4		3.6		60.5	RK789YGCB	Renk
Epley	E2490YGCB	G	201	198	19.2	18.9	6	3	1	1	0	0	93	94	7.9	8.1	3.6	3.6	60.3	60.1	E2490YGCB	Epley
#DEKALB	DKC60-19RRYG	GI	209	206	19.3	19.7	1	1	1	1	0	0	93	93	7.0	7.3	3.3	3.3	61.3	60.9	DKC60-19RRYG	#DEKALB
Corn Belt	C578Bt	G		195	19.3			0		1		0		88		8.0		3.5		60.3	C578Bt	Corn Belt
Cornelius	C605YG	GI		198	19.3			4		4		0		95		7.5		3.9		59.9	C605YG	Cornelius
A+ Seeds	5107Bt	G	198	198	19.4	18.9	5	1	0	0	0	0	94	94	7.8	8.0	3.5	3.4	60.6	60.3	5107Bt	A+ Seeds
Renze	8261YGCB	GI	196	193	19.4	19.0	5	2	1	1	0	0	93	93	7.8	7.9	3.6	3.6	60.4	60.2	8261YGCB	Renze
Merschman	M20108	GI	205	203	19.6	19.1	6	2	1	1	0	0	94	95	7.8	8.0	3.6	3.6	60.4	60.2	M20108	Merschman
Cornelius	C590YG	GI	202	200	19.7	19.3	5	1	1	1	0	0	95	94	7.8	7.9	3.5	3.5	60.5	60.3	C590YG	Cornelius
#Middlekoop	3311Bt	GI		206	19.9			0		1		0		94		6.9		3.6		60.8	3311Bt	#Middlekoop
Epley	E3223		198	198	19.9	19.7	6	2	3	3	0	0	93	93	7.2	7.3	3.6	3.6	60.9	60.6	E3223	Epley
HighCycle by Trelay	HC7748YGCB	GI		202	19.9			2		5		0		95		7.5		4.0		60.0	HC7748YGCB	HighCycle by Trelay
Rainbow	3065YGCB	G	202	197	20.0	19.5	5	2	1	1	0	0	96	95	7.8	7.9	3.6	3.5	60.3	60.2	3065YGCB	Rainbow
#Cornelius	C637YG	GI	201	202	20.0	19.8	1	0	0	1	0	0	95	96	6.9	7.1	3.5	3.5	61.1	60.8	C637YG	#Cornelius
#Kruger	9410YGCB	GI	195	198	20.1	20.1	1	0	0	0	0	0	95	94	7.0	7.2	3.5	3.4	61.1	60.6	9410YGCB	#Kruger
Crows	4911Bt	GI		196	20.1			4		3		0		89		7.4		3.7		60.4	4911Bt	Crows
Rainbow	3120YGCB	G		200	20.3			4		2		0		92		7.4		3.5		60.6	3120YGCB	Rainbow
Renk	RK870YGCB	GI		203	20.4			4		3		0		92		7.4		3.6		60.5	RK870YGCB	Renk
M/W Genetics	G7716Bt	GI		192	20.4			3		3		0		90		7.5		3.6		60.5	G7716Bt	M/W Genetics
Renze	9363YGCB/RR	GI		197	20.6			5		3		0		93		7.4		3.7		60.3	9363YGCB/RR	Renze
Hobart	4650	I	196	200	20.6	20.4	2	2	2	2	0	0	92	93	7.0	7.2	3.6	3.6	60.9	60.6	4650	Hobart
Trisler	5244CB	GI		200	20.7			4		2		0		93		7.4		3.6		60.5	5244CB	Trisler
Pfister	2856Bt	GI		202	20.8			4		2		0		93		7.3		3.5		60.6	2856Bt	Pfister
Rainbow	3100YGCB	G	199	202	22.1	21.8	3	1	1	1	0	0	92	92	7.2	7.3	3.5	3.5	61.0	60.8	3100YGCB	Rainbow
Epley	E3630YGCB	G	197	198	22.1	21.6	3	2	3	1	0	0	93	92	7.1	7.2	3.5	3.5	60.9	60.7	E3630YGCB	Epley
Rainbow	3135YGCB	G		194	23.3			6		2		0		91		7.4		3.5		60.7	3135YGCB	Rainbow
Average of All Entries			195.9	196.4	19.2	19.1	3.1	1.6	1.3	1.7	0.1	0.0	93.6	93.2	7.5	7.6	3.6	3.6	60.6	60.4	Average of All Entries	
Average of Check Hybrids			193.5	194.3	18.0	18.1	0.9	0.3	1.5	1.4	0.1	0.0	94.1	94.4	7.7	7.8	3.6	3.5	60.5	60.3	Average of Check Hybrids	

G = Transgenic Hybrid. I = Use of Insecticide Seed Treatment.
$ = Check Hybrid Entered by the Iowa Crop Improvement Association.
! = Short Check Hybrid Grown in Short Blocks.
= Hybrid Entered as a Short Hybrid and Grown in Short Blocks.

District 3

Designations Identifying Brands in the Test

A+ Seeds	A+ Seeds, Elkader, IA 52043 563 245 1125
Access Seed	Access Seed, Dike, IA 50669 319 989 2531
Ag Source	Ag Source Seeds, Nevada, IA 50201 515 382 8880, www.AgSourceseeds.com
Channel Bio Corp	Channel Bio Corp, Kentland, IN 47951 219 474 6868
Corn Belt	Corn Belt Hybrids, St. Marys, OH 45885 800 977 3841, www.cornbelthybrids.com
Cornelius	Cornelius Seed, Bellevue, IA 52031 563 672 3463, www.corneliusseed.com
Crows	Crows Hybrid Corn Co., Kentland, IN 53711 608 274 8215, www.crowshybrid.com
Dairyland	Dairyland Seed, Clinton, WI 53525-9728 608 676 2237, www.dairylandseed.com
*DEKALB	Monsanto, Cortland, IL 60112 815 754 4809, www.monsanto.com
Epley	Epley Brothers Hybrids, Shell Rock, IA 50677 319 885 6293, www.epleyseed.com
Garst	Garst Seed, Robins, IA 52328 319 373 7458
*Golden Harvest	J.C. Robinson Seed, Waterloo, NE 68069 402 289 6553, www.goldenharvestseeds.com
*Golden Harvest	Golden Harvest Seeds, Bloomington, IL 61704 800 610 7333, www.goldenharvestseeds.com
*Golden Harvest	Golden Seed Co., Cordova, IL 61242 800 421 1169, www.goldenharvestseeds.com
HighCycle by Font.	Fontanelle, Fontanelle, NE 68044-2505 402 721 1410, www.fontanelle.com
HighCycle by Trelay	Trelay, Livingston, WI 53554 608 943 6363, www.trelay.com
Hawkeye Hybrid	Hawkeye Hybrids, Pella, IA 50219 641 628 3627
Hobart	Hobart Bros. Seed, LLC, Lake City, IA 51449 712 464 7651
Jacobsen	Jacobsen Hybrid Corn Co., Lake View, IA 51450-0379 800 761 1024
Jung	Jung Seed Genetics, Randolph, WI 53956 920 326 5891, www.JungseedGenetics.com
Kruger	Kruger Seed Co., Dike, IA 50624 800 772 2721
KSC/Challenger	KSC/Challenger Seed, Dike, IA 50624 515 294 7831
MAW Genetics	Midwest Seed Genetics, Carroll, IA 51401 608 274 8215, www.midwestseed.com
Mark	Mark Seed Co., Perry, IA 50220 515 465 2122, www.markseed.com
Merschman	Merschman Seeds, West Point, IA 52656 319 837 6111 Ext 2311, www.merschmanseeds.com
Middlekoop	Middlekoop Seed Corn, Packwood, IA 52580 319 695 3266
*NK Brand	Syngenta Seeds, Ames, IA 50010 515 239 3505, www.NK.com
Pfister	Pfister Hybrid Corn, El Paso, IL 61738 309 527 6000, www.pfisterhybrid.com
*Pioneer	Pioneer Hi-Bred Intl. Inc., Johnston, IA 50131 515 253 5889, www.pioneer.com
*Pioneer	Pioneer Hi-Bred Intl. Inc., Johnston, IA 50131-0454 515 253 5892, www.pioneer.com
PSA Genetics	Garst Seed, Slater, IA 50244 800 953 1016 Ext 348
Rainbow	Rainbow Seeds, Oskaloosa, IA 52577 800 373 9401, www.rainbowseeds.com
Renk	Renk Seed, Sun Prairie, WI 53590 608 837 7351, www.renkseed.com
Renze	Renze Hybrids, Carroll, IA 51401 712 869 3301, www.renzehybrids.com
SOI	Sand Seed Service, Inc., Marcus, IA 51035 712 376 4135, www.sandsofiowa.com
Stine	Stine Seed, Adel, IA 50003 800 362 2510, www.stineseed.com
Thompson Seeds	Thompson Seeds, Leland, IA 50453 641 567 3350
Thompson/NuTech	Thompson Seeds/NuTech, Ames, IA 50010 515 232 8236
Trisler	Trisler Seed Farms, Inc., Fairmount, IL 61841 217 288 9301, www.trisler.com
Trisler	Ag Com, Essex, IA 51638 712 379 3107
*Wyffels	Wyffels Hybrids, Geneseo, IL 61254 800 369 7833, www.wyffels.com

*Companies with one or more check hybrids entered by the Iowa Crop Improvement Association.