

Pennsylvania Commercial Hybrid Corn Tests Report

Early medium-season hybrids (Maturity Zone 2) 1994 results

ADVANCED ENTRIES		
AUVANCED ENTRIES		

Table 1 Early medium-season hybrid performances (Maturity Zone 2) Combined Penn State Commercial Advanced Entries (average of five locations). Data under Location Means indicate counties where values were obtained

		RCENT-OF-CHI	-04		BU/A	%	LEAF DISEASE
BRAND-HYBRID	H ₂ O	YIELD	ERECT	%H ₂ D Grain	GRAIN	ERECT	RATING
MUNCY CHIEF ESX560	92 0	75 7	97.5	24 7	126 4	96.0	16
DEKALB DK524	95.2	88 2	98 3	25 6	147 4	96 8	13
DEKALB DK580	95 0	100 1	99 0	25 6	167 2	97 5	16
NORTHRUP KING N4545	95 6	88 7	100 8	25 7	148 2	99 3	1.8
DOEBLER'S 57XPA	95 6	82 5	99 1	25 7	137 8	97 6	16
NORTHRUP KING N5220	95 \$	92 9	99 1	25 7	155 1	97 7	23
CARGILL 6269	97 5	105 6	99 0	26 2	176.3	97 5	18
PIONEER 3525	97 7	99 2	99 9	26 3	165 7	98 4	1.7
HY PERFORMER HY9424	98 0	88 1	99 8	26 4	147 1	98.2	24
PIONEER 3527	97 9	100 5	101 0	26 4	167 8	99 5	14
CARGILL 6677	98 5	110 1	98 6	26 5	183 8	97 1	16
DOEBLER'S 64XP	98 5	98 4	98 7	26 5	164 4	97 2	13
AGWAY AG 578	99 2	90 1	97 9	26 7	150 5	96 4	25
HYTEST HT512	100 0	107 7	99 6	26 9	180 0	98 1	13
MYCOGEN AG5660	100 0	96 6	99 6	26 9	161 2	98 1	21
DOEBLER'S 62XP	100 5	108 6	99 5	27 0	181 5	98 0	14
ASGROW RX707	100 6	104 8	99 0	27 0	175 0	97 5	23
FUNK'S G-4394	100 7	109 0	100 5	27 1	182 1	98 9	23
NORTHRUP KING N6822	101 0	108 8	98 1	27 2	181 7	96.6	2.2
DOEBLER'S 66XP	101 4	96 5	99 6	27 3	161 1	98 2	16
DEKALB DK588	101 6	95 9	99 1	27 3	160 3	97.6	22
NORTHRUP KING N5901	101 8	92 1	98 2	27 4	153 8	96 7	19
AGWAY AG 626	102 4	99 8	98 7	27 5	166 7	97 2	18
NC+ 4616	102 4	96 2	99 1	27 5	160 7	97 6	18
MUNCY CHIEF XA560	102 2	78 1	99 7	27 5	130 4	98 3	19
FUNK'S G-4494	103 4	102 5	100 3	27 8	171 2	98 8	18
EASTLAND E599	105 1	95 9	99 9	28 3	160 2	98 4	11
ANDERSONS PSX405	105 3	95 7	99 9	28 3	159 8	98 4	0.9
WETSEL PX108	106 0	106.0	99 8	28 5	177 0	98.2	13
GREENLAND GL223	107 1	111 5	99 3	28 8	186 3	97 8	1.4
MEANS	99 9	97 5	99 3	26 9	162 9	97 8	17
LSD (05)	26	5 6	1 5	07	8 5	1 5	0.5
LOCATION MEANS							
Centre	91 2	98 0	99 2	24 5	163 7	97 7	
Lycoming	95 2	94 3	97 4	25 6	157 5	95 9	1.8
Columbia	89 2	94 7	99 4	24 0	158 2	97 9	
Mercer	133 8	100 0	101 0	36 0	167 0	99 5	
Clinton	90 1	100 6	99 4	24 2	168 0	97 9	17
		N	EW ENTRIE	S			

Table 2 Early medium season hybrid performance (Maturity Zone 2) Combined Penn State Commercial New Entries (average of five locations. Data under Location Means indicate counties where values were obtained

	PERCENT-OF-CHECK			%H20	BU/A	· 0/0	LEAF DISEASE
BRAND HYBRID	H ₂ O	YIELD	ERECT	GRAIN	GRAIN	ERECT	RATING
ICI 8751	87 8	92 5	104 9	22 6	145 9	97 5	17
GOLDEN HARVEST EX702	88 6	86 4	104 3	22 8	138 3	97 1	15
DOEBLER S 52XP	89 4	85 4	104 9	23 0	135 0	97.5	26
GOLDEN HARVEST H2331	89 4	95 9	101 5	23 0	150 7	94 5	25
GOLDEN HARVEST H2390	915	94 7	105 7	23 5	149 6	98 4	20
STINE 1033	92 2	90.5	107.0	23 7	143 2	99 5	31
DEKALB DK527	92 5	963	103 9	23 8	151 8	966	24
DEKALB DK560	92 2	108 0	105 5	23 8	170 5	98 2	23
STINE 993	93 2	84 6	102 1	24 0	134 0	95 O	
DYNAGRO 5246	933	763	101 5	24 0	1203	94 6	31 26
HY PERFORMER HY9385	933	100 8	102 6	24 0	160 4	95 5	
GRIES GSF4100	94 3	89 4	104 1	243	141 6		23
DYNAGRO 5248	94 2	916	105 9	24 3	141 0	96 9	23
GOLDEN HARVEST H2485	95 1	97.8	103 9	24 5		98 5	30
NC+ 3604	95 5	1103	106 8	24 5 24 6	154 B 174 4	96 7	24
NORTHRUP KING N4545	95 8	92 4	106 8	24 7		99 2	13
PIONEER 3769	95 9	92 4 81 0	98 2	24 7 24 7	145 0	98 7	18
DOEBLER S 585XP	96 0	962	104 9		127 0	91 0	11
AGWAY EXP541	967	107 1		24 7	152 1	97 6	28
CARGILL 5677	96 4	109 3	103 9 105 1	24 8	168 8	96 7	18
CHEMGRO 5995	96 5			24 8	171 3	97 8	1.3
TERRA TR1031	96 S	89 2	104 3	24 8	141 2	97 1	26
ASGROW RX623	970	85 2	103 9	24 9	133 2	96 7	19
HY PERFORMER HY9475		94 0	104 2	24 9	148 9	97 0	27
TERRA TR1070	97 2	94 5	104 8	25 0	149 5	97 5	23
FUNK'S G-4394	97 5	96 9	105 8	25 1	152 2	98 4	26
	97 7	108 8	106 4	25 2	172 3	99 0	24
EXPERIMENTAL	98 5	96 6	106 5	25 4	153 4	99 0	18
MYCOGEN 6890	98 9	1102	105 6	25 4	175 1	98 3	1 4
WETSEL S100	99 8	89 5	103 3	25 7	141 7	96 2	17
CHEMGRO 6695	99 9	97 0	106 4	25 7	153 0	98 9	24
OOEBLER'S 62XP	100 1	105 5	104 0	. 25 8	166 3	96 9	14
PIONEER 3525	100 6	98 7	106 1	25 9	155 6	98 7	2 1
MYCOGEN 6440	100 8	107 0	104.4	26 0	169 1	97 2	13
CARGILL 6303	101 1	96 8	104 6	26 0	153 9	97 2	20
CARGILL 6327	101 1	100 3	103 5	26 0	159 4	96 3	16
NC+ 4521	101 9	1117	104 1	26 3	175 7	96 8	18
MYCOGEN 6220	102 3	100 8	104 0	26 4	160 3	96 9	19
BEACHLEY HARDY BH4644	103 0	103 4	106 8	26 5	163 3	99 3	11
GREENLAND GL226	102 8	1118	105 3	26 5	176 7	98 0	16
DOEBLER S 606XP	103 3	898	106 2	26 6	142 4	98 8	15
ASTLAND E599	104 1	98 4	105 8	26 8	154 6	98 4	09
CHEMGRO 6795	105 6	106 9	105 9	27 2	170 2	98 5	11
AEANS	96 9	97 1	104 6	24 9	153 5	97 3	20
.SD (05)	4 6	6 9	28	12	10 9	26	0.5
DCATION MEANS							
Centre	93.8	92.5	99.8	24.0	149 1	00.0	
							2 1
	93 8 87 5 80 2 132 4	92 5 112 0 74 3 97 5	99 8 109 7 99 5	24 0 21 9 22 3	148 1 159 1 148 9	98 2 94 0 98 2	:

TWO-YEAR AVERAGE PERFORMANCE

Table 3 Early-medium season hybrids mean performance, 1993-1994 (Maturity Zone 2)

	PER	CENT-OF-	%H ₂ 0	BU/A	%	
BRAND-HYBRID	H ₂ O	AIEFO	ERECT	GRAIN	GRAIN	EREC1
MUNCY CHIEF ESX560	92 0	70 1	95 9	22 9	104 8	94 1
DOEBLER'S 57XPA	94.0	85.2	98 2	23.4	127 5	96.3
DEKALB DK524	94.4	95 1	96.1	23.5	142 3	94 3
NORTHRUP KING N4545	96 4	90 0	101 0	24 0	134 6	99 1
NORTHRUP KING N5220	97 6	91 3	99 9	24 3	136 6	98 O
PIONEER 3525	98 0	99 6	99.7	24 4	149 0	97 8
DEKALB DK580	98 8	97.0	98 6	24 6	145.1	96 7
AGWAY AG578	98.8	89.8	97.8	24 6	134.4	95 9
FUNK'S G-4394	99.2	106.3	100.5	24.7	159 0	98.6
PIONEER 3527	99 2	100 7	101 1	24 7	150 6	99 2
MYCOGEN AG5660	100 4	98 5	98 1	25 0	147 4	96 2
DOEBLER'S 62XP	100 8	108 0	98 7	25 1	161 6	96 8
NORTHRUP KING N5901	101.6	93 2	99.1	25.3	139 4	97.2
CARGILL 6269	102.0	106 5	99 7	25 4	159 3	97 8
DOEBLER'S 64XP	103.2	98 5	99 5	25 7	147 4	97.6
CARGILL 6677	103 6	108 9	97 8	25 8	162 9	95 9
ASGROW RX707	103 6	104 3	97 9	25 8	156 0	96 0
HYTEST HT512	104 0	108 2	98.0	25 9	161.9	96 1
DOEBLER'S 66XP	104 0	94 5	99.2	25 9	141.3	97 3
EASTLAND E599	104 8	96.1	100.3	26 1	143.7	98 4
NC+ 4616	105.6	97 8	99.2	26.3	146.3	97 3
AGWAY AG626	106 8	98 6	98.7	26 6	147 5	96 8
GREENLAND GL223	107 6	1163	99 9	26 8	174 0	98 0
WETSEL PX108	107.6	1113	98 7	26 8	166 5	96 8
MUNCY CHIEF XA560	108 8	80 5	99 8	27 1	120 5	97 8
ANDERSONS PSX405	1120	92 6	99 7	27 9	138 5	97.8
MEANS	101 7	97.7	99 0	25 3	146 1	97 1
LSD (.05)	40	8.8	22	10	110	2 1

SILAGE ENTRIES

BRAND-HYBRID	YIELD (T/A)	%H ₂ 0 Plant	DRY MAT PLANT(T/A)
EASTLAND E599	18 5	89 7	65
DEKALB DK588	19.0	67.8	8.6
AGWAY AG 626	19.1	67.9	67
AGWAY AG 723	20 9	88 5	73
PIONEER 3525	20.9	71 8	73
WETSEL S120	21 1	70 1	7.4
HY PERFORMER			
HY9424	21 3	62.6	75
HYTEST HT525	22 4	65 6	7.8
DOEBLER'S 75MQD2	22.5	70 8	79
PIONEER 3394	22 6	68.1	79
DOEBLER'S 73XP	22 7	68 0	79
CARGILL 7557	22 8	67 4	80
MEANS	21 1	68 2	74
LSD (.05)	42	29	15

LEAF

Late Medium-season hybrids (Maturity Zone 3) 1994 results

ADVANCED ENTRIES

Table 1 Late medium-season hybrid performances (Maturity Zone 3) Combined Penn State Commercial Advanced Entries (average of four locations). Data under Location Means indicate counties where values were obtained

	PERCENT-OF-CHECK			%H ₂ 0	BU/A	%	DISEASE
BRAND-HYBRID	H ₂ O	YIELD	ERECT	GRAIN	GRAIN	ERECT	RATING
MUNCY CHIEF XA560	97 0	79 7	100 6	27 8	149 9	99 5	20
HUBNER H3107	97 2	97 0	99 6	27 9	182 6	98 5	18
DOEBLER'S 73XP	97 8	106 1	99 2	28 0	199 6	98 1	23
PIONEER 3394	97.8	96 1	98 5	28 0	180 9	97 4	1 2
HUBNER H3213	97 5	101 3	100 1	28 0	190 6	99 0	25
FUNK'S G-4543	98 1	99 7	100 4	28 1	187 7	99 3	2.5
EASTLAND E799	97 9	104 3	99 3	28 1	196 3	98 2	27
AGWAY AG 723	98 4	103 1	99 5	28 2	194 1	98 4	23
GREENLAND GL262	98 4	105 3	99 1	28 3	198 2	98 0	2 5
DEKALB DK623	98 7	97 8	99 7	28 3	184 0	98 6	25
WETSEL PX110	98 9	84 4	100 4	28 4	158 9	99 3	23
HUBNER H3111	98 9	102 5	99 5	28 4	192 9	98 4	17
DOEBLER'S 66XP	99 0	93 6	99 0	28 4	176 2	97 9	18
PIONEER 3295	99 1	107 4	98 8	26 4	202 2	97 7	10
NORTHRUP KING N6822	99 7	101 7	98 8	28 6	191 4	97 7	25
HUBNER H3405	100 1	98 0	98 8	28 7	184 4	97 7	17
FUNK'S G-4473	100 4	103 3	98 5	28 8	194 4	97 4	12
NC+ 6485	100 2	103 1	100 4	28 8	194 0	99 3	23
HY PERFORMER HY9610	100 6	103 6	99 3	28 8	195 1	98.2	18
MYCOGEN 7660	100 5	104 8	101.1	28 8	197 2	100 0	20
TERRA TR1101	100 6	100 3	100 9	28 9	188 7	99 8	13
WETSEL PX115	100 7	99 1	99 9	28 9	186 5	98 8	20
DOEBLER'S 75X	101 6	96 5	100 6	29 1	181 5	99 5	23
DOEBLER'S 69XP	102 2	95 5	100 2	29 3	179 7	99 1	17
AGWAY AG 797	102 1	100.8	100 9	29 3	189 8	99 8	17
DEKALB DK646	102 0	104 6	99 7	29 3	196 8	98 6	27
CARGILL 8127	102 1	104 7	99 3	29 3	197 0	98 2	18
PIONEER 3293	102 7	97 8	100 7	29 4	184 0	99 6	10
ASGROW RX775	102 3	93 5	98 6	29 4	175 9	97 6	23
FUNK'S G-4554	102 7	95 2	100 5	29 5	179 2	99 4	2.5
DEKALB DK676	102 7	105 8	100 6	29 5	199 1	99 5	12
MYCOGEN 8240	103 1	102 5	101 0	29 6	193 0	99 9	16
CARGILL 7997	104 0	100 1	100 2	29 8	188 4	99 1	12
FUNK'S G-4584	104 2	106 1	97 6	29 9	199 7	96 5	17
DOEBLER'S 75X2	105 3	101 6	100 7	30 2	191 1	99 6	15
CARGILL 7897	105 1	97 4	100 0	30 2	183 3	98 9	15
MEANS	100 6	99 9	99 8	28 9	187 9	98 7	19
LSD (05)	30	6 1	14	09	115	1 4	07
LOCATION MEANS							
Juniata	95 1	92 3	97 6	27 3	173 6	96 5	
Lycoming	91 2	99 5	100 6	26 2	187 3	99 5	
Lawrence	121 4	1133	101 1	34 9	2133	100 0	
Clinton	94 5	94 3	99 8	27 1	177 4	98 7	19

(Turn to Page 27)

NAFTA Success Silences

Tenn.—Agricultural trade with Mexico is setting records, thanks to the free-trade provisions of the North American Free Trade Agreement (NAF-TA), and corn producers have been a major beneficiary, farmers were told during a session at the National Corn Growers Association's (NCGA) 1995

Com Classic.

. NASHVILLE.

and NCGA representatives praised the early performance of the innovative agreement, during a breakout session entitled "How Is NAFTA Impacting You?" which featured Stephen P. Dees, director general, Farmland Industries; Ken Roberts, assistant deputy administrator of USDA's Foreign Agricultural Service; and

Government, agribusiness, Keith Heard, NCGA executive vice president of government and public affairs.

> Farmland Industries made an early commitment to the Mexican market and began expansion prior to the signing of NAFTA, Dees said.

> "It became obvious to us that this market was going to be too important to ignore even without NAFTA, so we opened

our Mexico office in 1993. In south. our first year, our sales of grain and soybeans grew from 350 million metric tons to more than 1 million metric tons," Dees said.

Roberts of FAS concurred that NAFTA has lived up to its billing as a necessary agreement that would break down barriers and act as a catalyst for trade with our neighbor to the

"Mexico, once a market for only 10 million bushels of corn, has imported 100 million bushels of U.S. corn since the inception of NAFTA. Meat exports have soared as well, which is another key to keeping the corn industry profit-

able," Heard said.