

1998 Pa. Commercial Hybrid Test Reports

PENNSSTATE



College of Agricultural Sciences
Cooperative Extension

Pennsylvania Commercial Hybrid Corn Tests Report

Short-season hybrids (Maturity Zone 1) 1998 results

COMBINED ENTRIES

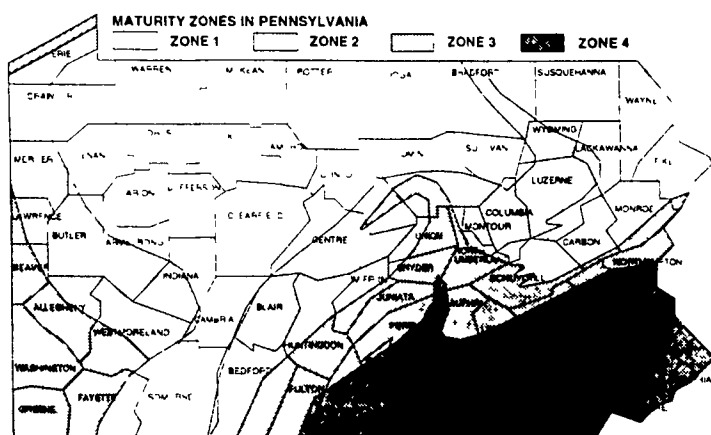
Table 1 Short season hybrid performance (Maturity Zone 1) Combined Penn State Commercial Entries (average of six locations)

BRAND-HYBRID	PERCENT OF CHECK			%H ₂ O GRAIN	BU/A GRAIN	% ERECT
	H ₂ O	YIELD	ERECT			
DEKALB DK431	93.5	93.1	100.3	20.1	131.9	99.1
DOEBLERS 23XA	93.5	85.2	99.5	20.1	120.7	98.3
SEEDWAY E328	94.9	101.9	99.4	20.4	144.3	98.2
DOEBLERS 252X	95.3	87.2	100.4	20.5	123.5	99.2
PIONEER 37M81	95.3	107.1	100.0	20.5	151.7	98.8
AGWAY AG285	96.3	109.0	99.9	20.7	154.3	98.7
TERRA E858	96.3	80.2	100.3	20.7	113.6	99.1
CARGILL 2827	97.2	98.6	99.9	20.9	139.6	98.7
DEKALB DK449	97.2	83.6	100.8	20.9	118.4	99.6
CARGILL 3677	97.7	90.0	99.8	21.0	127.5	98.6
DEKALB DK477	97.7	103.7	100.4	21.0	146.8	99.2
DOEBLERS 469XP	97.7	109.2	100.3	21.0	154.6	99.1
HYTEST HT4404	97.7	95.9	100.4	21.0	135.8	99.2
NC+ 1487	97.7	107.6	100.7	21.0	152.4	99.5
GOLDEN HARVEST H 2309	98.1	100.5	100.4	21.1	142.3	99.2
NK BRAND N4424	98.6	103.7	100.3	21.2	146.8	99.1
GARST 8830	99.1	114.1	100.7	21.3	161.5	99.5
TERRA E989	99.1	102.3	100.7	21.3	144.9	99.5
AGWAY AG257	99.5	83.4	98.3	21.4	118.1	97.1
CHEMGRO 4854	99.5	85.9	100.2	21.4	121.6	99.0
DOEBLERS 322X	99.5	89.4	100.5	21.4	126.6	99.3
GARST 8766	100.9	95.4	100.1	21.7	135.1	98.9
PIONEER 3752	101.4	102.3	99.3	21.8	144.8	98.1
DEKALB DK483	101.4	99.5	100.5	21.8	140.9	99.3
DEKALB DK493 BTX	101.4	105.4	100.3	21.8	149.2	99.1
PIONEER 37R71	101.4	107.1	101.0	21.8	151.6	99.8
TERRA E987	101.4	100.6	100.3	21.8	142.4	99.1
NC+ 2395	101.9	102.7	101.1	21.9	145.4	99.9
DOEBLERS 434XP	102.8	89.1	99.7	22.1	126.1	98.5
AGWAY AG388	103.3	108.3	100.8	22.2	153.4	99.6
CARGILL 3797	104.2	104.6	100.6	22.4	148.1	99.4
DEKALB DK525	104.7	105.2	99.1	22.5	149.0	97.9
SEEDWAY E475	104.7	104.7	101.2	22.5	148.3	100.0
DEKALB DK527	105.6	109.2	100.1	22.7	154.6	99.8
SEEDWAY E350	105.6	96.5	101.0	22.7	136.7	99.5
DOEBLERS 530-3	106.0	101.9	100.7	22.8	144.3	100.0
NC+ 2727	107.4	95.6	101.2	23.1	135.4	100.0
SEEDWAY E540	108.8	111.4	100.5	23.4	157.8	99.3
MEANS	100.3	99.6	100.3	21.6	141.1	99.1
LSD (.05)				0.8	9.6	0.8

TWO-YEAR AVERAGE PERFORMANCE

Table 3. Short-season hybrids mean performance, 1997-98 (Maturity Zone 1).

BRAND-HYBRID	PERCENT-OF-CHECKS			%H ₂ O GRAIN	BU/A GRAIN	% ERECT
	H ₂ O	YIELD	ERECT			
DOEBLERS 23XA	89.7	81.2	100.1	23.6	108.0	98.6
DOEBLERS 322X	93.5	87.5	100.5	24.6	116.4	99.0
DOEBLERS 252X	95.1	90.4	100.0	25.0	120.2	98.5
CARGILL 3677	96.2	90.9	99.9	25.3	120.8	98.5
NC+ 1487	97.0	106.9	100.6	25.5	142.1	99.1
GARST 8830	97.7	104.7	100.3	25.7	139.2	98.8
AGWAY AG285	98.1	108.7	100.2	25.8	144.5	98.7
PIONEER 3752	98.9	100.7	99.0	26.0	133.8	97.6
SEEDWAY E350	100.8	96.7	100.9	26.5	128.5	99.4
AGWAY AG388	101.9	102.4	100.8	26.8	136.1	99.3
PIONEER 37M81	102.3	104.3	99.8	26.9	138.6	98.4
SEEDWAY E540	104.9	107.4	101.0	27.6	142.7	99.5
NC+ 2395	104.9	100.8	101.2	27.6	134.0	99.7
DOEBLERS 434XP	105.3	85.9	100.0	27.7	114.2	98.5
NK BRAND N4424	106.1	102.1	100.9	27.9	135.7	99.4
TERRA E987	108.4	97.2	100.6	28.5	129.2	99.1
DEKALB DK527	112.2	106.3	100.8	29.5	141.3	99.3
MEANS	100.7	98.5	100.4	26.5	130.1	98.9



Early medium-season hybrids (Maturity Zone 2) 1998 results

COMBINED ENTRIES

Table 1 Early medium-season hybrid performance (Maturity Zone 2) Combined Penn State Commercial Entries (average of five locations)

BRAND-HYBRID	PERCENT OF CHECK			%H ₂ O GRAIN	BU/A GRAIN	% ERECT
	H ₂ O	YIELD	ERECT			
CHEMGRO 5369	91.8	72.1	100.7	21.2	105.2	99.4
GEERTSON GS-998	93.9	91.2	98.9	21.7	133.1	97.6
AGRIPRO AP9520	95.2	105.6	101.1	22.0	154.0	99.8
CHEMGRO 7036	96.5	102.0	100.8	22.3	148.8	99.5
CHEMGRO 6038	97.0	91.4	100.4	22.4	133.4	99.1
DOEBLERS 530-3	97.4	89.3	100.1	22.5	130.3	98.8
HYTEST HTX7512	97.4	98.1	98.9	22.5	143.1	97.6
CARGILL 6888	97.8	114.5	99.5	22.6	167.0	98.2
CHEMGRO 5555	97.8	99.2	99.8	22.6	144.8	98.5
DOEBLERS 642XP	98.3	96.0	98.5	22.7	140.1	97.2
GARST 8707	98.3	96.4	100.1	22.7	140.7	98.8
DEKALB DK537	98.7	90.3	100.6	22.8	131.8	99.3
AGWAY AG576	99.1	97.9	100.5	22.9	142.8	99.2
DOEBLERS 523XY	99.1	92.1	99.8	22.9	134.4	98.5
PIONEER 3525	99.6	95.8	99.2	23.0	139.8	97.9
SEEDWAY E624	99.6	102.3	98.8	23.0	149.2	97.5
AGWAY AG501	100.0	97.5	100.6	23.1	142.3	99.3
DEKALB DK585	100.0	99.0	99.2	23.1	144.5	97.9
GOLDEN HARVEST H 2390	100.0	81.3	99.6	23.1	118.6	98.3
SEEDWAY E540	100.4	95.5	99.3	23.2	139.3	98.0
DEKALB DK546	100.4	94.9	100.3	23.2	138.4	99.0
GARST 8840	100.4	87.5	97.7	23.2	127.6	96.4
GRIES 6211	100.4	101.2	99.0	23.2	147.6	97.7
PIONEER 34K77	100.4	105.3	99.8	23.2	153.7	98.5
DOEBLERS 596XY	100.9	95.8	100.5	23.3	139.7	99.2
DEKALB DK551	101.3	105.6	100.5	23.4	154.0	99.2
DYNAGRO 5322	101.3	99.7	100.5	23.4	145.5	99.2
TERRA TR1047	101.3	115.8	99.4	23.4	169.0	98.1
FUNKS 4394	101.7	97.9	100.5	23.5	142.9	98.2
PIONEER 34G81	101.7	100.8	99.8	23.5	147.1	98.5
TERRA E1008 BT	101.7	93.1	100.0	23.5	135.9	98.7
AGRIPRO AP9460	102.2	97.4	100.3	23.6	142.1	99.0
NC+ 4646	102.2	102.8	99.9	23.6	150.0	98.6
GRIES 5207	102.6	104.0	100.0	23.7	151.7	98.7
SEEDWAY E538	102.6	96.2	100.6	23.7	140.3	99.3
TERRA TR1066	102.6	95.6	99.5	23.7	139.5	98.2
DOEBLERS 636XY	103.0	89.9	99.4	23.8	131.1	98.1
GOLDEN HARVEST EX 674	103.0	96.5	100.1	23.8	140.8	98.8
NC+ 4718	103.0	96.7	98.9	23.8	141.1	97.6
TERRA TR1087	103.5	110.8	100.1	23.9	161.7	98.8
AGWAY AG663	103.9	106.6	99.8	24.0	155.5	98.5
DEKALB DK595 BTX	103.9	105.2	100.9	24.0	153.5	99.6
PIONEER 36K27	104.3	104.9	100.7	24.1	151.1	99.4
HYTEST BH4602	105.2	101.9	100.3	24.3	148.7	99.0
GRIES 4203	105.6	96.6	99.9	24.4	143.8	98.6
AGWAY AG657	106.5	106.2	100.5	24.6	154.9	99.2
SCHLESSMAN SX696	106.9	105.5	100.2	24.7	153.9	98.9
NC+ 4578	107.4	96.2	100.0	24.8	140.3	98.7
MEANS	100.8	98.3	99.9	23.3	143.5	98.6
LSD (.05)				1.0	15.6	1.4

TWO-YEAR AVERAGE PERFORMANCE

Table 3. Early-medium season hybrids mean performance, 1997-98 (Maturity Zone 2).

BRAND-HYBRID	PERCENT-OF-CHECKS			%H ₂ O GRAIN	BU/A GRAIN	% ERECT
	H ₂ O	YIELD	ERECT			
GARST 8640	95.2	93.6	99.1	24.8	133.8	97.7
PIONEER 3525	96.7	102.0	99.3	25.2	145.9	98.0
SEEDWAY E540	97.1	97.0	100.0	25.3	138.7	98.6
FUNKS 4394	98.5	97.0	100.4	25.6	138.7	99.0
AGWAY AG576	98.5	105.7	100.1	25.6	151.1	98.7
PIONEER 36K27	98.8	106.7	100.5	25.7	152.6	99.1
CARGILL 6888	99.0	112.2	100.2	25.8	160.4	98.8
DEKALB DK546	99.2	104.0	100.2	25.8	148.7	98.8
DOEBLERS 642XP	99.8	103.1	99.3	26.0	147.5	97.9
AGRIPRO AP9460	100.0	98.9	100.1	26.0	141.5	98.7
DYNAGRO 5322	100.0	104.4	100.1	26.0	149.3	98.7
TERRA TR1047	100.0	113.0	99.5	26.0	161.7	98.1
DOEBLERS 596XY	100.2	103.7	99.5	26.1	148.4	98.2
GRIES 6211	100.6	104.2	99.5	26.2	149.1	98.1
SEEDWAY E624	100.6	107.2	99.4	26.2	153.3	98.1
TERRA TR1066	100.8	105.5	99.6	26.2	150.8	98.2
TERRA TR1087	101.0	113.5	99.5	26.3	162.3	98.2
PIONEER 34G81	101.2	106.0	100.1	26.3	151.6	98.7
NC+ 4646	101.3	105.9	100.0	26.4	151.4	98.6
GRIES 4203	101.7	102.2	100.1	26.5	146.2	98.7
DOEBLERS 636XY	103.1	98.4	100.3	26.8	140.8	98.9
AGWAY AG657	103.8	105.5	99.9	27.0	150.9	98.5
SCHLESSMAN SX696	105.2	106.2	100.2	27.4	151.9	98.8
MEANS	100.1	104.2	99.9	26.1	149.0	98.5

SILAGE ENTRIES

Table 4. Silage performance of early medium-season hybrids (Maturity Zone 2).

BRAND-HYBRID	YIELD (T/A) 65% H ₂ O	%H ₂ O PLANT	DRY MAT PLANT (T/A)			
SEEDWAY E538	24.9	59.1	8.7			
AGWAY AG663	23.5	59.6	8.3			
DOEBLERS 596XY	20.4	59.9	7.1			
DEKALB DK585	23.6	60.9	8.3			
DEKALB DK595 BTX	22.3	61.1	7.8			
HYTEST HTX7610	26.1	61.2	9.1			
HYTEST HT7712	28.0	62.3	9.8			
DOEBLERS 636XY	21.4	62.5	7.5			
PIONEER 3523	21.6	63.1	7.6			
MEANS	24.0	58.6	8.4			
LSD (.05)	NS	3.8	NS			
CHEMGRO 5369	21.5	53.9	7.5			
CHEMGRO 6038	22.8	54.6	8.0			
GARST 8707	22.9	55.1	8.			