

CORN TALK NEWS

PENNSYLVANIA MASTER CORN GROWERS ASSOC., INC.

Maturity Zone 2

(Continued from Page 35)

second week of November, but not completed until December 7 because the grain moisture remained high and weather conditions were poor.

Diseases, insects, and other pests

Hybrids grown at one of the Centre County locations were inoculated with the fungi causing northern leaf blight (NLB) and northern leaf spot (NLS), but only NLS ratings were made. These are given in Tables 1 and 2. The incidence of this disease was not significant enough to rate at the other locations; however, some gray leaf spot and bacterial leaf blight were observed at most locations, but did not cause any significant damage. Also, some stalk and ear rot were noted.

Animal and bird damages were observed but did not cause a significant problem.

Interpretation of results

Least significant differences (LSD) is the tool used to determine if two average values are actually different statistically. The difference between two hybrids must exceed the LSD value to be considered significantly different. Example for yield: LSD = 8.1 Bu/A; Hybrid X = 120.0 Bu/A; Hybrid Y = 105.0 Bu/A; 120.0 - 105 = 15.0 Bu/A difference. Since the difference between Hybrid X and Y (15.0 Bu/A), exceeded the LSD (8.1 Bu/A), hybrid X was higher yielding due to hybrid superiority and not simply as a result of uncontrolled environmental factors.

Cooperators and locations

Early medium-season hybrids were evaluated with the cooperation of the following persons: Martin Smith, Luzerne County; Curt Rakestraw, Lycoming County; Don Fretts, Westmoreland County; Harold Foertsch, Butler County; and university farms, Centre County.

ADVANCED ENTRIES

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

BRAND HYBRID	PERCENT-OF CHECKS			%H ₂ O GRAIN	BU/A GRAIN	% ERECT	HEIGHT (IN)		NLS RATING
	H ₂ O	YIELD	ERECT				PLANT	EAR	
HALSEY H295	91.8	93.5	99.7	26.3	118.4	92.2	86.3	46.4	3.0
PIONEER 3592	92.9	98.0	98.2	26.6	124.1	90.8	88.0	47.4	1.7
PIONEER 3733	93.9	92.8	99.5	27.0	117.6	92.1	85.3	42.2	1.0
MUNCY CHIEF SX390	94.5	78.1	95.8	27.1	98.9	88.7	80.1	38.2	3.5
DEKALB DK524	95.0	91.2	96.6	27.3	115.6	89.4	86.0	44.6	2.5
HYTEST HT424	96.6	100.8	101.4	27.7	127.7	93.7	87.9	43.6	2.0

NORTHRUP KING N4545	97.2	101.2	99.5	27.9	128.2	92.1	84.0	39.4	1.5
PIONEER 3527	97.8	107.0	104.3	28.1	135.6	96.5	90.0	50.6	1.5
DOEBLER'S 57XP	99.4	92.7	96.1	28.5	117.4	88.9	79.2	39.4	2.7
HALSEY H1107	99.8	92.1	96.3	28.6	116.6	89.0	80.8	39.4	2.7
PIONEER 3394	100.1	110.6	102.3	28.7	140.1	94.6	86.0	46.0	1.8
HALSEY H1105A	100.2	90.8	93.1	28.7	115.0	86.1	84.7	35.7	3.7
DOEBLER'S 65X	100.6	96.4	99.3	28.9	122.1	91.9	86.6	48.4	3.0
AGRI GENE GA6839	101.1	98.0	98.9	29.0	124.2	91.5	85.0	47.5	2.4
WETSEL W56	101.5	94.5	99.2	29.1	119.7	91.8	86.2	43.5	3.0
DOEBLER'S 64XP	102.4	104.1	102.1	29.4	131.9	94.5	86.6	39.7	1.2
HYTEST HT512	102.5	107.4	95.6	29.4	136.0	88.4	88.0	42.6	1.7
AGWAY AG 588	102.9	97.2	100.2	29.5	123.2	92.7	83.8	43.6	2.8
DOEBLER'S 61X	103.1	96.0	101.3	29.6	121.6	93.7	83.4	39.8	2.2
CARGILL 5327	103.4	95.2	96.2	29.7	120.6	88.9	85.2	39.2	3.8
NC+ 4275	104.6	104.7	100.2	30.0	132.6	92.7	80.9	36.4	2.3
GRIES GSF5106	105.0	97.5	99.9	30.1	123.6	92.4	86.0	36.4	1.3
EASTLAND E599	105.4	94.3	104.0	30.2	119.5	96.2	86.9	36.6	1.7
ICI 8513	106.2	98.9	98.0	30.5	125.3	90.7	86.2	44.7	2.3
NC+ 4616	106.7	98.6	94.5	30.6	124.9	87.4	82.8	39.7	2.3
DEKALB DK582	106.7	92.0	96.4	30.6	116.6	89.2	85.2	42.3	2.3
ANDERSONS PSX370	107.1	99.0	100.0	30.7	125.4	92.5	80.0	38.4	2.0
FUNK'S G-4472	107.4	104.6	99.8	30.8	132.5	92.3	83.2	40.5	3.0
AGWAY AG 658	107.6	97.5	99.7	30.9	123.5	92.2	82.6	43.6	1.8
GREAT LAKES GL582	108.0	100.3	99.6	31.0	127.1	92.1	79.7	37.9	2.2
HUBNER H3709	108.2	99.1	100.8	31.0	125.6	93.2	82.1	42.3	2.2
DOEBLER'S 66XP	108.4	104.6	96.9	31.1	132.5	89.6	87.6	47.4	2.3
GRIES GSF6110	109.0	105.3	97.7	31.3	133.5	90.4	82.8	39.1	1.7
PRAIRIE STREAM SX420	110.4	97.4	99.3	31.7	123.3	91.9	78.8	38.2	1.8
ASGROW RX706	110.9	99.7	94.1	31.8	126.3	87.0	87.8	44.1	2.7
JACQUES 7970	114.7	97.5	86.7	32.9	123.5	80.2	85.9	39.0	3.0

MEANS	102.9	98.0	98.4	29.5	124.2	91.1	84.5	41.8	2.3
LSD (.05)	3.1	6.8	4.1	0.9	8.7	3.8	5.6	7.1	0.8

LOCATION MEANS									
Centre	105.6	99.3	93.9	33.5	101.0	86.6			
Lycoming	103.3	95.2	100.4	30.8	100.1	96.5			
Luzerne	103.6	96.3	98.4	25.9	120.1	94.5			
Butler	99.0	97.2	99.6	34.4	150.0	96.4			
Westmoreland	101.3	106.1	100.4	24.3	139.8	97.9			
Centre	104.4	94.0	97.6	28.2	134.1	74.4	84.5	41.8	2.3

NEW ENTRIES

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

BRAND HYBRID	PERCENT-OF CHECKS			%H ₂ O GRAIN	BU/A GRAIN	% ERECT	HEIGHT (IN)		NLS RATING
	H ₂ O	YIELD	ERECT				PLANT	EAR	
HY PERFORMER HS9240	82.0	89.1	101.4	23.3	109.9	93.3	86.5	42.7	2.8
HY PERFORMER HS9330	86.2	91.9	97.2	24.5	113.4	89.5	88.4	38.7	2.8
TERRA TR910	86.9	87.5	93.4	24.7	108.0	85.9	82.9	41.0	2.7
HY PERFORMER HS9233	88.0	91.8	101.0	25.0	113.2	92.9	85.1	36.7	2.8
DOEBLER'S 58XP	88.4	91.9	94.4	25.1	113.4	86.9	78.7	37.7	2.5
TERRA TR1020	90.7	84.9	96.3	25.8	104.8	86.6	82.6	41.7	2.7
DEKALB DK524	92.2	102.1	96.0	26.2	126.0	88.3	84.3	41.7	2.5
HALSEY H296	93.4	82.4	99.5	26.5	101.7	91.6	81.3	33.3	3.2
TERRA TR1010	93.4	91.9	98.0	26.5	113.4	90.2	74.1	32.0	2.8
AGWAY AG 454	93.6	89.3	96.4	26.6	110.2	88.7	81.4	40.0	2.5
AGWAY AG EXP 511	96.4	90.3	92.8	27.4	111.4	85.4	84.1	41.3	2.3
AGRI GENE AG4250	98.5	97.1	102.1	28.0	119.9	93.9	81.4	37.3	2.8
NORTHRUP KING N4545	99.6	95.6	99.1	28.3	118.0	91.1	79.1	40.6	1.7
PIONEER 3527	99.7	102.0	105.3	28.3	125.8	96.9	94.0	47.0	1.5
HARDY HB6500	99.7	91.3	103.3	28.3	112.7	95.0	84.5	42.3	2.5
DOEBLER'S 65X	100.8	101.4	98.8	28.6	125.1	90.9	87.5	46.4	2.2
TERRA TR1030	101.3	94.9	98.1	28.8	117.1	90.3	83.0	43.3	2.2
HARDY HB6450	101.5	94.2	98.8	28.8	116.3	90.9	85.0	44.3	2.8
AGRI GENE GA7149	102.8	102.2	101.3	29.2	126.1	93.2	79.8	40.0	2.8
JACQUES 6970	103.4	102.0	94.0	29.4	125.9	86.5	80.9	39.0	2.7
FUNK'S G-4402	103.7	88.5	100.0	29.4	109.2	92.0	79.7	40.0	1.5
CARGILL 6269	104.9	113.0	101.5	29.8	139.5	93.4	89.2	39.7	2.0
AGWAY AG EXP 612	105.3	99.0	101.5	29.9	122.1	93.4	86.1	41.7	1.5
HYTEST HT536	106.0	107.0	99.1	30.1	132.1	91.2	83.2	38.7	2.2
AGWAY AG EXP 613	106.4	100.9	103.4	30.2	124.5	95.1	88.5	44.0	1.3
DOEBLER'S 62XP	107.4	105.0	94.7	30.5	129.6	87.1	84.1	38.3	1.8
SCHLESSMAN SX655	107.7	94.9	97.0	30.6	117.1	89.2	82.3	39.7	2.7
FUNK'S G 4472	108.2	98.8	97.7	30.7	122.0	89.9	86.8	43.4	3.2
WETSEL PX108A	109.6	96.6	99.9	31.1	119.2	91.9	81.2	37.7	2.0
CARGILL 7177	109.8	97.1	100.7	31.1	119.9	92.6	84.3	43.0	2.3
ICI 8382	110.2	98.5	90.1	31.3	121.5	82.9	95.7	47.7	2.3
SCHLESSMAN SX661	110.2	100.3	93.4	31.3	123.8	85.9	80.8	40.7	1.3
GRIES GSF6112	112.1	91.2	97.8	31.8	112.5	90.0	81.6	40.6	1.2
PRAIRIE STREAM SX2059	114.5	102.2	93.5	32.5	126.1	86.0	101.0	50.0	1.2
PRAIRIE STREAM SX425	115.2	92.9	89.0	32.7	114.6	81.9	87.0	42.3	1.2
EASTLAND EX649	116.9	88.4	93.7	33.2	109.1	86.2	82.8	42.7	1.5

MEANS	101.3	95.8	97.8	28.8	118.2	90.0	84.4	41.0	2.2
LSD (.05)	3.4	6.9	4.9	1.0	8.5	4.5	8.4	6.6	0.7

LOCATION MEANS									
Centre	101.6	99.4	94.0	32.0	93.3	85.6			
Lycoming	99.6	95.6	97.9	30.0	103.2	96.6			
Luzerne	101.0	94.3	98.5	25.9	102.9	88.6			
Butler	101.7	91.8	99.5	33.8	141.0	96.0			
Westmoreland	100.6	105.3	99.9	23.5	137.5	97.8			
Centre	102.8	90.5	96.4	27.5	131.2	75.3	84.4	41.0	2.2

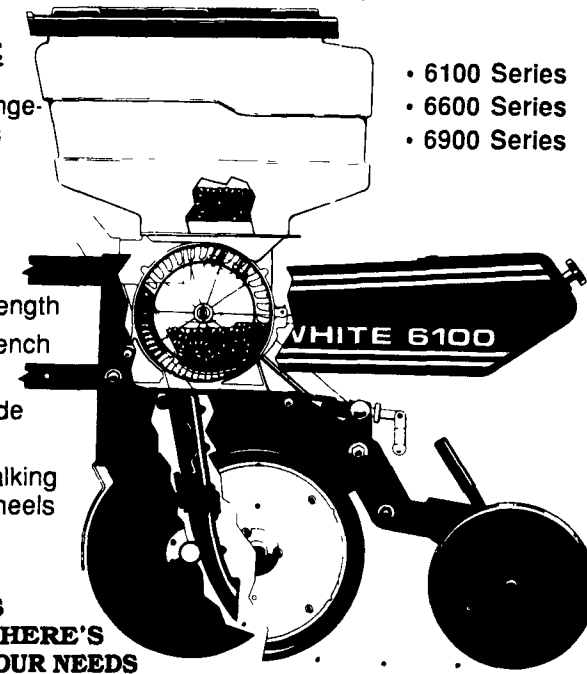
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