

week of November. Grain moisture level was higher than normal at all locations.

Diseases, insects, and other pests

High levels of moisture, cool nights, heavy morning dews, and foggy mornings in the valley areas were conducive to the development of leaf diseases in late summer and early fall. Both gray leaf spot (GLS) and northern leaf spot (NLS) were common in susceptible lines. Ratings for both were taken and are reported in Tables 1 and 2.

Tests at the Lancaster location were inoculated with the pathogens causing northern leaf blight (NLB) and NLS. The ratings for NLS are included in the tables. Some stalk rot was noted at all locations but especially where the incidence of GLS and corn borer were high.

Corn borer infestation was very high in the Lancaster tests resulting in greater than normal stalk breakage and ear drop. The other locations did not have such high infestation. Animal damage was insignificant at these locations.

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.



ADVANCED ENTRIES

Table 1 Late-season hybrid performances (Maturity Zone 4) 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)		GLS RATING	NLS RATING
	H ₂ O	YIELD	ERECT				PLANT	EAR		
PIONEER 3241	94.1	113.2	101.9	25.8	181.7	98.7	95.7	45.7	1.7	1.0
PIONEER 3293	94.2	107.1	101.3	25.8	172.0	98.1	94.0	48.0	1.8	1.5
MUNCY CHIEF XA777	94.6	86.1	96.4	25.9	138.2	93.4	93.3	44.3	2.0	2.5
FUNK'S G-4626	97.0	99.3	99.6	26.6	159.4	96.5	97.7	46.3	2.8	3.5
DOEBLER'S 84XP	97.5	100.2	100.0	26.7	160.8	96.9	91.7	44.0	2.2	3.8
CARGILL 8127	97.8	109.7	98.0	26.8	176.0	95.0	95.3	47.0	2.2	3.3
PIONEER 3245	97.9	103.6	100.1	26.8	166.4	97.0	91.3	35.3	2.2	2.3
GREENLAND GL270	98.2	108.7	100.3	26.9	174.5	97.2	94.0	50.0	1.3	2.0
HUBNER H9115	98.2	102.9	99.6	26.9	165.2	96.5	94.3	50.0	2.0	2.8
TERRA TR1160	99.5	104.1	100.0	27.3	167.0	96.9	89.0	44.0	3.3	3.3
PIONEER 3140	99.7	110.5	101.0	27.3	177.4	97.9	95.3	49.0	1.3	2.6
AGWAY AG 836	99.7	98.2	100.7	27.3	157.7	97.6	94.7	44.0	2.7	3.3
ASGROW RX899	99.8	107.7	99.5	27.4	172.9	96.4	89.7	47.7	1.7	2.5
HY PERFORMER HS9704	100.3	101.7	100.4	27.5	163.2	97.3	93.3	48.7	2.8	2.5
HYTEST HT7728	100.4	105.5	98.3	27.5	169.3	95.2	90.0	48.7	1.8	2.0
DOEBLER'S 75X2	100.4	109.3	99.4	27.5	175.4	96.3	87.0	45.7	2.0	2.3
AGWAY AG 824	101.0	98.3	99.3	27.7	157.7	96.2	91.0	45.7	2.0	2.3
GREENLAND GL345	102.0	114.1	99.6	27.9	183.1	96.5	90.0	46.7	1.8	2.5
JACQUES 8510	102.0	107.5	99.3	28.0	172.6	96.2	90.0	44.7	1.7	2.8
EASTLAND E886	102.3	96.0	100.8	28.0	154.1	97.7	89.7	40.3	2.2	2.2
FUNK'S G-4624	103.6	109.4	100.8	28.4	175.5	97.7	98.0	47.3	2.2	2.3
HY PERFORMER HS9773	104.1	103.3	97.2	28.5	165.8	94.2	90.3	50.0	2.8	2.5
NORTHROP KING N8727	104.8	112.2	99.3	28.7	180.1	96.2	91.0	42.7	2.3	3.0
FUNK'S G-4671	104.8	114.1	99.3	28.7	183.1	96.2	92.0	45.7	1.0	0.7
JACQUES 9220	105.2	114.0	99.8	28.8	183.0	96.5	95.3	49.7	1.3	2.3
PIONEER 3192	106.0	94.9	101.8	29.0	152.3	98.5	91.0	38.3	1.5	1.5
CARGILL 8427	106.2	100.3	100.3	29.1	181.1	97.2	90.0	40.7	1.8	2.8
CARGILL 8027	108.4	107.7	99.5	29.7	172.9	96.4	94.7	41.7	1.8	2.8
MEANS	100.7	105.0	99.8	27.6	168.5	96.7	92.5	45.4	2.0	3.3
LSD(.05)	3.5	7.5	2.3	1.0	11.2	2.3	9.8	8.3	0.7	1.1
LOCATION MEANS										
Lancaster	101.7	106.3	100.1	28.6	136.7	87.0	92.5	45.4		3.3
Lehigh	101.1	99.3	100.0	28.6	170.7	99.3				
Franklin	97.8	112.1	99.6	29.3	181.1	98.4				
Franklin	101.0	108.5	100.0	25.5	167.0	98.2			2.0	
Cumberland	102.5	102.0	99.4	26.4	172.4	97.9				
Berks	99.6	104.5	99.6	29.2	183.2	99.3				

NEW ENTRIES

Table 2 Late-season hybrid performances (Maturity Zone 4) 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)		GLS RATING	NLS RATING
	H ₂ O	YIELD	ERECT				PLANT	EAR		
HARDY HB6345	96.0	104.8	99.6	26.2	165.4	96.0	85.7	45.7	2.3	2.5
DOEBLER'S 84XP	96.5	100.8	100.9	26.3	159.1	97.3	87.3	44.0	2.5	3.2
FUNK'S G-4626	97.0	101.7	100.5	26.5	160.5	96.9	93.7	45.3	2.2	3.0
ASGROW RX897	97.8	104.4	101.1	26.7	164.8	97.4	93.3	47.0	2.3	2.5
HARDY HB6334	98.0	102.3	99.6	26.8	161.5	96.0	86.7	44.3	2.0	2.5
ICI 8326	98.2	103.3	97.9	26.8	163.0	94.3	87.7	38.7	2.7	3.0
HY PERFORMER HS9843	98.7	108.8	98.4	26.9	171.7	94.9	85.7	46.3	2.2	2.0
EASTLAND E886	99.2	97.9	100.4	27.1	154.5	96.8	84.7	35.3	2.2	2.3
CARGILL 8127	100.1	103.6	98.7	27.3	163.5	95.1	91.7	45.0	2.2	3.2
TERRA TR1120	100.2	96.3	99.3	27.3	152.0	95.7	82.3	39.3	2.3	3.0
HYTEST HTX7748	101.2	101.8	101.0	27.6	160.6	97.3	88.0	47.7	2.3	2.0
DOEBLER'S 87XP	101.2	104.8	101.1	27.6	165.4	97.4	82.7	40.3	2.0	1.5
ICI 8260	102.3	108.9	98.6	27.9	171.8	95.0	85.0	43.7	2.7	2.5
MUNCY CHIEF XA7766	102.4	96.2	100.8	28.0	151.8	97.2	86.0	34.7	2.0	2.3
DOEBLER'S 82XP	103.0	99.0	100.1	28.1	156.2	96.5	89.0	48.0	2.2	1.8
FUNK'S G-4672	103.3	100.4	100.5	28.2	158.3	96.9	85.7	40.0	1.8	2.0
TERRA TR1145	103.4	103.8	100.8	28.2	163.9	97.2	87.3	36.3	2.2	1.8
MUNCY CHIEF XA7790	103.4	94.6	100.0	28.2	149.3	96.4	83.3	39.3	2.5	2.7
HY PERFORMER HS9905	104.5	102.0	100.8	28.5	161.0	97.2	84.3	40.3	1.8	2.2
HUBNER H9018	104.8	113.0	97.5	28.6	178.4	94.0	89.3	44.0	2.0	1.7
TERRA TR1180	106.9	102.8	101.3	29.2	162.3	97.7	85.7	42.0	2.0	2.0
PIONEER 3192	107.1	95.9	99.5	29.2	151.3	95.9	87.0	37.0	2.3	1.0
MEANS	101.1	102.2	99.9	27.6	161.2	96.3	86.9	42.0	2.2	2.3
LSD (.05)	4.7	8.7	2.4	1.1	13.7	2.3	6.9	7.6	0.8	0.9
LOCATION MEANS										
Lancaster	102.2	102.9	100.5	25.9	121.7	83.6	86.9	42.0		2.3
Lehigh	100.5	101.1	100.1	28.7	167.4	99.3				
Franklin	104.2	100.7	99.9	28.4	183.6	98.5				
Franklin	99.5	105.4	99.5	25.4	169.1	98.5			2.2	
Cumberland	101.5	103.6	100.7	28.0	142.2	98.6				
Berks	99.0	100.3	99.9	29.3	183.2	99.5				

TWO-YEAR AVERAGE PERFORMANCE

Table 3 Long season hybrids mean performance, 1991-92 (Maturity Zone 4)

BRAND-HYBRID	PERCENT-OF-CHECKS			%H ₂ O GRAIN	BU/A GRAIN	% ERECT
	H ₂ O	YIELD	ERECT			
PIONEER 3293	94.3	102.8	100.1	23.2	152.4	98.7
FUNK'S G-4626	96.3	101.6	100.0	23.7	150.5	98.6
PIONEER 3241	96.7	104.2	99.9	23.8	154.4	98.5
PIONEER 3245	96.7	99.1	99.5	23.8	146.8	98.1
HUBNER H9115	97.6	104.6	98.4	24.0	155.0	97.0
CARGILL 8127	97.6	103.9	100.6	24.0	154.0	99.2
HY PERFORMER HS9704	99.2	97.5	99.8	24.4	144.5	98.4
DOEBLER'S 75X2	99.6	107.5	99.2	24.5	159.3	97.8
DOEBLER'S 84XP	99.6	98.7	99.7	24.5	146.2	98.3

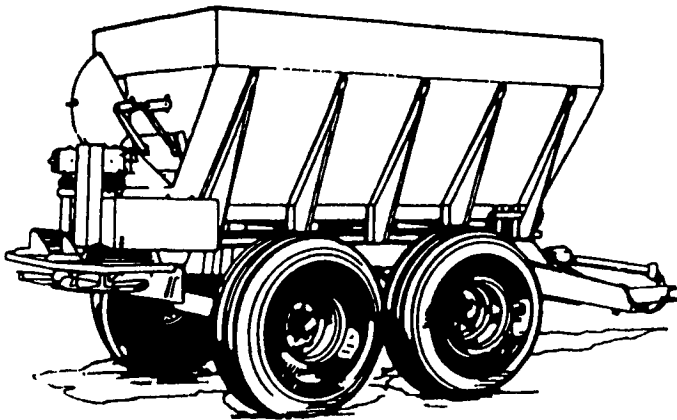
SILAGE ENTRIES

Table 4 Silage performance of late season hybrids (Maturity Zone 4)

BRAND-HYBRID	YIELD (T/A)	%H ₂ O PLANT	DRY MAT PLANT(T/A)
EASTLAND E886	18.7	66.1	6.5
WETSEL S120	19.3	64.8	6.8
PRAIRIE STREAM SX704	19.9	66.2	6.9
DOEBLER'S 944-3	20.2	66.2	7.1
MUNCY CHIEF XA7790	20.5	65.8	7.2
PRAIRIE STREAM SX2023	20.6	68.8	7.2
DOEBLER'S 86XA-2	20.8	66.6	7.3
PIONEER 3293	21.0	62.2	7.4

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