

Hybrid Test Reports

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gray leaf spot (GLS), (from natural inoculum) was prevalent in the surrounding area, very little GLS occurred in this plot. However, NLB developed to high levels on several of the entries and disease ratings were made on September 6 for NLB only. Stalk rot, bird damage, and animal damage were not a problem at any location other than at the Crawford County site mentioned above.

Interpretation of results

Least significant difference (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 - 105.0 = 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.

Results of the tests for short-season, early medium-season, late medium-season, and late-season hybrids are available as separate reports from county offices of Penn State Cooperative Extension.

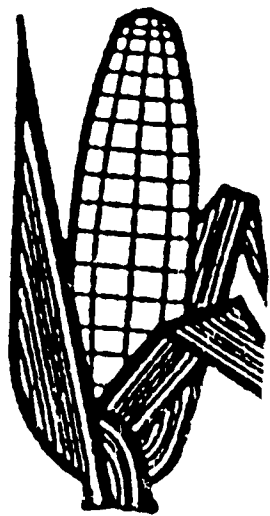
Members of the county-based extension staff assisted in conducting these tests. Their efforts were essential to the successful completion of the trials and were greatly appreciated.

The tables in this report may be reproduced only in their entirety.

ENTRIES BY LOCATION

Table 2. Short-season (Maturity Zone 1) hybrid performance for individual locations; yield is in bushels per acre and leaf blight (LB) ratings are 0.5-5.0, where 0.5 equals little or no disease and 5.0 equals premature death.

Brand-Hybrid	Mercer	Tioga	Lycoming	Centre	
				(Yield)	(NLB)
Agway AG4597	143.2	157.4	150.2	140.1	3.0
Agway AG4603	131.2	166.8	132.6	149.4	3.1
Agway AG4698 Bt	154.4	147.6	159.2	148.6	2.5
Agway AG4717	140.4	147.6	129.6	142.4	2.5
Agway AG5095	133.0	180.6	96.4	137.8	2.7
Asgrow RX452 YG	172.1	168.2	138.7	153.5	2.3
Chemgro 6051	142.2	120.5	110.8	150.4	3.1
Dekalb DKC46-26	134.3	132.5	149.2	138.2	0.9
Dekalb DKC48-15	126.9	148.9	143.1	149.7	1.5
Dekalb DKC51-88	132.4	161.3	117.5	129.8	2.5
Dekalb DKC53-32	140.9	183.9	152.6	154.3	2.7
Doebler's 236 X	122.9	123.9	127.4	130.1	3.1
Doebler's 296 XP	126.0	130.2	135.4	126.7	3.0
Doebler's 495 XY	159.2	152.2	124.7	142.6	2.2
Garst 8801 IT	137.6	147.6	128.9	112.1	3.8
Garst 8830	142.3	138.3	121.3	144.7	2.6
Garst 8909 Bt	133.4	161.1	25.9	196.3	4.4
Garst 8998	120.6	118.8	25.4	98.5	4.8
Hyttest HT7345	130.0	150.9	141.5	135.6	3.2
NC+ 1320	117.3	164.6	153.4	141.1	3.0
NK Brand N45-A6	169.7	173.1	143.2	151.6	2.6
NK Brand N58-D1	153.7	165.7	123.0	134.0	1.9
Seedway E301	136.8	159.4	157.8	128.0	3.5
Seedway E315 RR	147.1	148.5	146.7	144.0	2.7
Seedway E388	116.8	157.1	116.8	127.9	2.8
Seedway E475	124.4	156.6	106.4	137.4	2.2
Seedway E500 CL	110.2	178.7	112.7	120.7	2.6
MEAN	137.1	150.6	132.2	135.7	2.8
LSD (0.05)	20.3	18.5	11.8	12.7	0.6



AVERAGE OVER LOCATIONS

Table 1. Short-season (Maturity Zone 1) hybrid performance combined across four locations.

Brand-Hybrid	Grain Moisture (%)	Grain Yield (bu/acre)	Erect Plants (%)	Bushel Weight (lbs)
Garst 8966	18.4	116.1	95.0	56.7
Doebler's 236 X	18.5	126.1	98.4	57.4
Doebler's 296 XP	18.9	131.8	96.3	56.5
Seedway E301	19.0	145.5	91.0	53.6
Hyttest HT7345	19.2	139.5	90.5	53.7
Garst 8801 IT	19.5	131.6	93.7	54.7
NC+ 1320	19.6	144.1	91.6	53.3
Garst 8830	19.8	136.7	95.6	53.5
Dekalb DKC48-15	20.3	142.2	95.2	54.2
Agway AG4597	20.3	147.7	94.5	54.9
Agway AG4698 Bt	20.3	152.0	99.5	54.4
Agway AG4717	20.3	140.0	97.8	54.0
Seedway E315 RR	20.4	146.6	94.0	53.3
NK Brand N45-A6	20.8	159.4	98.4	51.9
Agway AG4603	20.9	145.0	95.8	52.3
Seedway E388	21.1	130.2	96.2	53.7
Dekalb DKC46-26	21.3	138.6	93.0	54.7
Garst 8909 Bt	21.4	112.9	97.0	54.5
Dekalb DKC51-88	21.4	135.3	92.3	54.1
Chemgro 6051	21.5	131.0	98.9	53.8
Seedway E500 CL	21.5	130.6	91.6	53.3
Agway AG5095	22.2	132.0	95.4	54.3
Doebler's 495 XY	22.4	144.7	99.0	53.7
Seedway E475	23.0	131.2	97.4	54.7
Asgrow RX452 YG	23.6	158.1	97.9	53.5
NK Brand N58-D1	24.5	144.1	95.2	52.6
Dekalb DKC53-32	25.1	157.9	96.6	50.2
MEAN	20.9	138.9	95.5	54.0
LSD (0.05)	0.6	8.0	2.7	0.6

TWO-YEAR AVERAGE

Table 3. Two-year average of short-season (Maturity Zone 1) hybrids that were entered in both the 2000 and 2001 tests.

Brand-Hybrid	Grain Moisture (%)	Grain Yield (bu/acre)	Erect Plants (%)	Bushel Weight (lbs)
Agway AG4597	21.5	136.1	95.7	52.5
Agway AG4603	22.0	134.2	97.0	50.9
Dekalb DKC53-32	25.6	136.0	97.2	48.9
Doebler's 236 X	19.0	121.0	98.4	55.9
Garst 8830	20.7	124.5	96.4	51.5
NK Brand N58-D1	26.2	128.8	96.6	50.8
Seedway E301	19.7	132.2	93.5	51.9
Seedway E475	24.4	125.0	98.0	52.8
MEAN	22.0	129.7	96.6	51.9

SILAGE ENTRIES

Table 4. Silage performance of short-season (Maturity Zone 1) hybrids.

Brand-Hybrid	Plant Yield ^a (tons/acre)	Dry Moisture ^b (%)	Matter Yield (tons/acre)
Doebler's 469 XP	22.6	60.4	7.9
Seedway E409 L	28.3	61.4	9.9
Hyttest HT7350 RR	21.5	62.4	7.5
Seedway E390 L	23.8	62.7	8.3
Hyttest HT7415	21.4	64.4	7.5
Dekalb DKC53-32	23.0	64.6	8.0
Golden Harvest H-81	22.1	65.9	7.7
Doebler's 596 XY	21.5	67.4	7.5
Dekalb DKC56-71	21.4	68.7	7.5
MEAN	22.8	64.2	8.0
LSD (0.05)	2.9	3.4	1.0

^a Yields are standardized to 65% moisture.

^b Plant moisture at the time of harvest.

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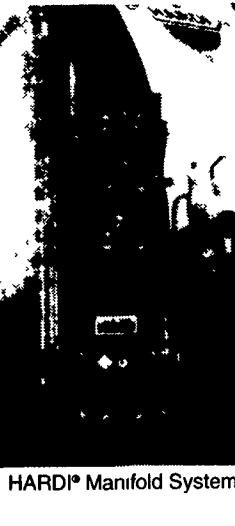
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