

Hybrid Test Reports

(Continued from Page F8)

Table 3 Performance of the early (107 to 111 day RM) silage hybrids at the Centre County location in 2002

Brand/Hybrid	Dry Matter %	Silage Yield* Tons/acre	CP %	NDF %	Starch %	Sugar %	NFC %	Ash %	Fat %	Lignin %	NEI Mcal/lb	IVTD %	NDFD %	Milk/ton lbs/ton	Milk/acre lbs/acre
Mycogen TMF108	32.4	14.1	7.7	42.3	32.5	10.6	45.4	3.8	2.7	3.7	0.72	79.2	51.7	3409	16849
Dekalb DKC59-08	31.3	16.0	7.2	39.8	35.7	11.3	47.9	3.9	2.8	3.3	0.75	77.0	41.9	3126	17537
Wolf River Valley 2114L	30.4	16.6	8.1	48.5	23.0	15.4	39.3	4.2	2.3	4.0	0.67	77.7	54.3	3119	18277
Pioneer 34M95	30.3	14.9	7.6	39.8	34.3	12.4	48.5	3.4	2.8	3.4	0.75	85.6	62.9	3907	20343
Pioneer 34B23	29.8	15.9	7.2	43.1	30.4	13.5	45.2	3.7	2.8	3.6	0.72	80.2	53.3	3420	19090
Pioneer 34M94	29.5	15.7	7.4	44.1	30.8	12.6	44.3	3.4	2.9	3.8	0.72	81.1	58.0	3566	19623
Dekalb DKC60-09	29.2	18.1	7.6	42.9	30.3	12.5	44.5	4.4	2.5	3.6	0.72	80.3	53.9	3369	19032
NK Brand N70-D5	29.2	15.0	7.3	41.3	31.5	14.2	46.7	4.0	2.6	3.5	0.73	79.9	50.9	3345	17749
Pioneer 34B24	28.8	14.9	7.3	40.9	31.7	15.0	47.4	3.8	2.3	3.7	0.72	78.4	46.8	3120	16227
Chemgro 7253 RR	28.7	16.9	7.9	41.6	30.5	13.9	45.9	4.0	2.8	3.8	0.72	84.2	61.3	3708	21528
Golden Harvest H-9233	28.6	14.7	7.1	42.7	32.8	9.7	44.8	4.4	2.5	3.3	0.72	80.0	52.1	3361	17393
Dekalb DKC58-78	28.2	13.4	7.2	42.4	32.3	10.5	44.7	4.8	2.4	3.2	0.71	79.4	51.1	3284	15341
Hylest HT 7706	28.2	13.7	7.1	40.9	32.7	14.0	47.2	3.9	2.6	3.5	0.73	79.4	49.1	3313	15887
Agway AG6001	28.1	17.1	7.8	40.4	33.0	12.8	47.4	4.1	2.7	3.9	0.73	81.1	53.1	3485	20715
Agway AG6191	27.9	14.4	7.4	47.1	25.1	13.1	40.3	4.5	2.5	4.3	0.67	77.3	52.9	3127	15776
Dekalb DKC61-25	27.0	14.2	7.3	44.0	27.0	15.4	44.3	4.0	2.5	3.8	0.71	77.2	48.9	3047	15056
Mean	29.2	15.2	7.4	42.6	30.8	12.9	45.2	4.0	2.6	3.6	0.72	79.9	52.6	3356	17901
LSD (0.10)	2.4	NS	0.7	3.6	3.6	1.0	3.9	0.5	NS	NS	0.03	2.9	NS	25.7	1213
CV (%)	2.3	9.2	3.0	5.2	7.2	8.4	4.9	9.1	7.6	6.8	2.2	2.2	7.5	4.5	11.1

*Silage yields are expressed on a 35% DM basis- all other parameters are expressed on a dry matter basis. CP= Crude Protein, NDF= Neutral Detergent Fiber, NFC= Non-fiber Carbohydrates, NEI= Net Energy for lactation, IVTD= In Vitro True Digestibility, and NDFD= Neutral Detergent Fiber Digestibility

Table 4 Performance of the early (107 to 111 day RM) silage hybrids at the severely drought stressed Franklin County location in 2002

Brand/Hybrid	Dry Matter %	Silage Yield* Tons/acre	CP %	NDF %	Starch %	Sugar %	NFC %	Ash %	Fat %	Lignin %	NEI Mcal/lb	IVTD %	NDFD %	Milk/ton lbs/ton	Milk/acre lbs/acre
Mycogen TMF108	45.4	7.4	8.0	47.9	27.7	8.1	39.6	4.3	2.5	3.6	0.69	79.8	57.6	3305	8445
Dekalb DKC58-78	41.9	6.0	8.5	45.6	29.5	9.1	42.1	3.8	2.4	3.6	0.71	79.2	54.7	3305	6872
Dekalb DKC59-08	41.4	5.3	9.6	49.8	24.6	10.5	36.2	3.8	2.5	3.6	0.66	77.7	55.3	3136	5964
NK Brand N70-D5	40.8	7.0	6.8	47.9	26.9	12.1	41.4	3.7	2.0	4.0	0.67	74.7	47.6	2850	7003
Dekalb DKC60-09	40.4	5.4	8.4	45.5	28.2	11.8	41.4	3.8	2.6	3.9	0.69	78.3	52.4	3180	6034
Pioneer 34M95	40.2	6.8	8.6	50.8	22.7	11.1	36.2	4.1	2.4	3.6	0.65	79.6	60.2	3311	7887
Pioneer 34M94	40.0	5.3	7.5	51.4	25.3	10.7	37.0	3.6	2.6	4.0	0.66	82.8	66.8	3677	7117
Wolf River Valley 2114L	38.9	6.2	7.8	56.4	19.1	9.4	31.1	4.0	2.5	4.0	0.60	75.0	55.2	2987	6354
Golden Harvest H 9233	37.8	6.1	8.8	47.9	24.1	12.3	38.9	4.4	2.4	4.3	0.67	75.5	49.2	2908	6131
Agway AG6001	37.8	6.5	9.2	45.1	28.3	11.4	41.3	4.1	2.5	3.4	0.70	79.9	55.3	3368	7729
Pioneer 34B23	36.9	8.0	8.7	54.2	18.3	12.3	32.4	4.3	2.4	3.9	0.63	77.2	57.9	3162	6579
Dekalb DKC61-25	35.5	5.7	7.7	51.8	20.2	14.0	35.9	4.6	2.1	4.4	0.63	78.3	58.3	3184	6440
Pioneer 34B24	35.3	6.8	8.7	54.1	16.7	13.5	32.1	4.7	2.2	4.3	0.61	77.0	57.0	3053	7341
Chemgro 7253 RR	34.9	5.0	8.8	47.4	24.6	13.0	39.0	4.4	2.3	3.7	0.67	80.8	59.1	3421	5958
Agway AG6191	34.3	5.0	8.7	53.0	19.1	11.5	33.4	4.7	2.3	4.7	0.62	77.7	58.5	3211	5669
Hylest HT 7706	34.1	4.8	8.8	52.2	19.3	12.7	34.7	4.0	2.5	3.9	0.64	78.3	58.7	3312	5619
Mean	38.5	6.0	8.4	50.1	23.4	11.5	37.0	4.1	2.4	3.9	0.68	78.2	56.5	3210	6696
LSD (0.10)	2.4	1.1	0.7	3.6	3.6	1.0	3.9	NS	0.3	0.4	0.03	2.9	4.5	25.7	NS
CV (%)	5.8	16.6	7.4	6.8	14.6	8.3	9.9	12.2	9.9	10.3	4.7	3.5	7.4	7.5	17.0

*Silage yields are expressed on a 35% DM basis- all other parameters are expressed on a dry matter basis. CP= Crude Protein, NDF= Neutral Detergent Fiber, NFC= Non-fiber Carbohydrates, NEI= Net Energy for lactation, IVTD= In Vitro True Digestibility, and NDFD= Neutral Detergent Fiber Digestibility

Table 5 Performance of the late (112 to 116 day RM) silage hybrids combined over the Centre County and Lancaster County locations in 2002

Brand/Hybrid	Dry Matter %	Silage Yield* Tons/acre	CP %	NDF %	Starch %	Sugar %	NFC %	Ash %	Fat %	Lignin %	NEI Mcal/lb	IVTD %	NDFD %	Milk/ton lbs/ton	Milk/acre lbs/acre
Pioneer 33B51	40.0	17.1	8.5	36.3	41.0	9.9	51.8	3.7	2.9	3.7	0.77	82.7	53.2	3554	22039
Pioneer 33D31	38.4	18.3	8.3	37.8	35.9	10.2	48.7	3.8	2.9	3.6	0.76	80.8	49.5	3414	22471
Hylest HT 7785	37.4	15.6	8.2	42.1	33.7	10.5	45.1	3.9	3.7	3.8	0.73	82.8	59.7	3876	17936
Lly Lly860L X FR9661	37.3	14.5	8.1	41.4	33.2	10.8	45.5	3.4	2.9	3.4	0.74	82.3	57.5	3555	14899
Agway AG6515	37.2	13.9	8.8	42.7	31.6	10.5	44.0	3.5	3.0	3.7	0.73	82.4	58.5	3630	17569
Mycogen X7909	36.7	14.9	7.9	41.7	32.3	10.1	44.7	3.6	3.0	3.7	0.73	80.6	52.9	3486	18291
Agway AG6399 Bt	36.6	15.4	8.4	42.2	33.4	9.0	44.6	3.9	2.9	3.5	0.73	82.2	57.0	3581	19113
Dekalb DKC64-10	36.0	13.9	8.3	39.7	35.5	10.4	47.4	3.6	2.8	3.4	0.75	84.4	60.9	3840	18123
Dekalb DKC62 15	35.6	14.6	8.3	42.0	31.9	11.9	45.3	4.1	2.8	3.9	0.72	80.5	53.6	3440	18102
Hylest HT 7806 Bt	35.6	15.8	8.1	43.5	31.4	10.4	43.7	3.7	2.9	3.9	0.72	80.2	54.8	3500	18544
Golden Harvest Ex09480	35.2	13.4	8.4	44.2	27.7	11.4	41.9	3.6	2.8	4.0	0.71	82.3	60.8	3836	16549
Mycogen F697	34.6	13.0	8.6	41.8	32.6	10.1	44.9	4.2	2.9	3.7	0.72	84.0	61.5	3751	19510
Hylest HT 7924	34.3	14.4	8.6	42.6	29.0	11.7	43.6	3.5	2.7	3.9	0.73	81.3	56.9	3602	19391
Pioneer 33J56	34.2	15.8	8.3	41.0	32.2	11.3	45.6	3.7	2.6	3.7	0.73	81.8	56.2	3594	19523
Dekalb DK647 Bt	34.1	15.2	8.0	44.3	31.2	10.0	42.7	3.6	2.6	3.7	0.71	81.2	57.7	3549	19034
Lly FR1064 X Lly419L	33.6	13.0	7.7	47.8	23.7	14.2	39.5	4.4	2.5	4.2	0.67	79.6	57.1	3293	16770
Chemgro 7530 Bt	33.6	13.7	8.0	40.0	32.7	10.6	45.8	3.9	2.9	3.8	0.74	84.0	60.0	3786	17945
Pioneer 33J57	33.5	17.0	8.5	41.5	32.8	13.4	46.6	4.0	2.7	3.8	0.73	82.4	57.2	3575	22111
Mycogen 7611 FQ	32.9	14.4	8.6	41.2	32.1	12.6	45.7	4.2	2.7	3.7	0.73	84.9	62.9	3780	19214
Dekalb DKC65-00	31.6	16.2	8.3	43.5	31.3	11.2	43.8	4.4	2.8	3.7	0.71	82.4	60.2	3617	20929
NK Brand N82-Je	31.3	16.2	8.3	43.9	29.3	11.6	43.0	4.4	2.5	4.0	0.70	81.5	56.7	3471	20390
Lly MBS3611 X Lly497L	31.0	14.2	7.6	47.6	23.6	13.7	39.1	4.6	2.6	4.1	0.67	80.8	59.3	3373	18108
Garret 8230 IT	30.6	12.0	8.8	46.6	26.6	12.2	40.9	4.2	2.5	3.9	0.68	81.8	60.7	3536	15266
Garret 8222 IT	30.0	13.7	8.1	43.6	28.3	13.4	43.7	4.6	2.3	3.9	0.70	85.1	66.4	3756	18304
Mycogen F2F97	30.0	13.8	8.4	43.0	29.0	12.2	43.6	4.7	2.8	3.7	0.71	87.5	70.8	3997	17805
Zimmerman 1851W	29.5	15.1	8.3	47.8	24.6	13.6	39.3	4.4	2.4	4.4	0.67	80.0	58.3	3369	17841
Mean	34.3	14.8	8.3	42.7	31.0	11.4	44.2	4.0	2.8	3.8	0.72	82.3	58.5	3591	18684
LSD (0.10)	1.8	2.0	0.3	2.9	3.7	1.1	3.1	0.4	NS	0.4	0.07	2.1	5.0	194	NS
Hybrid*Location	Sig	Sig	Sig	Sig	Sig	Sig	Sig	Sig	Sig	Sig	NS	Sig	Sig	Sig	Sig
CV (%)	5.6	14.3	3.7	7.1	12.4	9.6	7.3	10.4	7.7	10.2	9.9	2.7	8.8	5.6	14.9

*Silage yields are expressed on a 35% DM basis- all other parameters are expressed on a dry matter basis. CP= Crude Protein, NDF= Neutral Detergent Fiber, NFC= Non-fiber Carbohydrates, NEI= Net Energy for lactation, IVTD= In Vitro True Digestibility, and NDFD= Neutral Detergent Fiber Digestibility

(Turn to Page F12)

EPA Adds Teeth To Bt Refuge Requirements

YORK (York Co.) — You'll have a bit more of an incentive to follow insect resistance management plans when you plant Bt corn from now on. Under the new Compliance Assurance program (CAP), if you don't play by the rules for two years in a row (by planting a 20 percent non-Bt refuge within a

half mile of any Bt corn field), seed companies will give you a one-year "time out." You won't be able to plant Bt corn for a year. What's more, your local seed dealer will be charged with monitoring compliance, according to a Biotechnology Industry Organization representative. "If a dealer knowingly

sells seed to someone not eligible, he would lose the chance to sell Bt seed in the future," said Fred Yoder, president of the National Corn growers Association. The CAP was developed by the Environmental Protection Agency and the four companies with Bt corn products registered in the U.S.

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