Hybrid Test Reports

(Continued from Page F6)

Franklin County

The late season hybrids at the drought stressed Franklin County site had a very wide range in dry matter concentrations (Table 8) and averaged 34.3% DM. As is typical of drought stunted sites, the yields were variable among the replications and this resulted in a high CV for yield and no significant differences among hybrids for yield. Forage quality differences were significant for all variables measured. On the average, this site has relatively high fiber levels, low starch, and low NEI and low Milk ton ratings. compared to the other sites

This test represents a lirst effort at guining a better understanding of hybrid effects on silage yield and forage quality. While the dry weather limited our ability to combine data from thice similar tests we did learn much from this study. Considerable hybrid differences exist within each of the 5-day relative maturity groups. Some hybrids were more consistent in yield and quality than others, why this occurs is uncertain. Also we learned that frequently many of the forage quality traits were more consistent than yield. These will all be important for future work in this area.

Using this Data

There are many opinions on how to interpret com silage yield and forage quality information for use on dairy operations. Generally some of the most important variables to consider are yield, NDF, starch, and The Milk 2000 spread heet integrates the effects of these and estimates Milk ton and Milk/acre Some have found these to be a useful guide for hybrid selection. The optimum combination of yield and these variables will depend on farm specific agronomic and dairy nutrition considerations

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Table 1 Performance of the early (107 to 111 day RM) silage hybrids combined over the Centre County and Lancaster County

Brand/Hybrid	Dry Matter	Silage Yield*	CP	NDF	Starch	Sugar	NFC	Ash	Fat	Lignin	NEI	IVTD	NDFD	Milk/ton	Milk/acre
	%	Tons/acre	%	%	%	%	%	%	%	%	Mcal/lb	%	%	lbs/ton	lbs/acre
Mycogen TMF108	40 1	15 8	80	42 7	33 8	8 1	44 0	35	27	36	072	78 7	50 6	3235	17799
Dekato DKC59-08	386	16 7	79	39 0	37 3	5 4	50 1	36	29	28	0.78	78 7	44 8	3158	18758
Dekato DKC60-09	36 4	16 5	82	40 7	34 0	10 0	46 0	38	26	34	074	80 5	518	3324	19299
Pioneer 34M95	36 2	16 0	78	44 0	31 5	102	458	36	26	34	074	84 1	64 2	3747	20473
Pioneer 34M94	35 6	15 5	77	45 3	30 3	106	42 5	35	27	37	0.71	80 9	58 4	3490	19148
Chemgro 7253 RR	35 5	15 9	80	428	31 5	11 0	44 9	37	26	37	0 72	818	57 4	3480	19921
Pioneer 34B23	34 9	17 2	80	44 5	29 2	120	423	39	28	39	0.70	799	54 7	3385	19553
NK Brand N70-D5	347	15 8	8 1	410	33 1	120	46 1	37	25	35	0.73	81 5	54 6	3468	19232
Wolf River Valley 2114L	347	16 1	8.5	45 4	28 1	127	39 5	37	26	40	0 68	79 1	54 2	3283	17945
Dekalb DKC58-78	34 5	14 9	80	41 0	33 9	90	46 5	42	26	3 1	074	80 5	52 4	3362	18475
Pioneer 34B24	343	16 6	79	42 2	30 7	134	44 7	38	27	38	0 72	78 4	48 5	3168	18291
Agway AG6001	34 1	16 4	8.5	42 6	31 8	103	44 7	40	27	37	0.73	80 2	53 4	3391	19472
Agway AG6191	33 6	15 0	8.2	43 9	30 3	107	430	4 1	26	37	0 71	78 4	515	3221	16641
Hytest HT 7706	329	15 1	80	43 0	316	110	45 2	38	26	36	0.73	79 5	517	3347	17396
Dekalb DKC61 25	32 8	15 3	80	43 1	29 8	12 9	437	39	25	37	071	78 6	50 9	3211	17247
Golden Harvest H-9233	31.2	14 5	78	42 8	31 7	10 7	45 4	4.1	25	35	0.73	79 0	50 2	3296	17139
Mean	35 0	15 8	80	427	31 8	108	44 7	38	26	3 5	0 72	80 0	53 1	3348	18549
LSD (0 10)	12	NS	NS	NS	NS	10	NS	NS	NS	NS	0.08	23	39	187	NS
HybridxLocation	Sig	NS	Sig	Sig	Sig	Sig	Sig	Sig	Sig	Sig	NS	NS	NS	NS	NS
CV (%)	44	11.4	4 6	8.8	11 4	120	82	83		96	139	35	92	6.9	139

*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 2 Performance of the early (107 to 111 day RM) silage hybrids at the Lancaster County location in 2002

Brand/Hybrid	Dry Matter	Silage Yield*	CP.	NDF	Starch	Sugar	NFC	Ash	Fat	Lignin	NEI	IVTD	NDFD	Milk/ton	Milk/acre
	%	Tons/acre	%	%	%	%	%	%	%	%	Mcal/lb	%	%	lbs/ton	lbs/acre
Mycogen TMF108	47 7	17.4	8 2	43 0	35 0	56	426	31	27	34	0 72	78 2	49 4	3062	18749
Dekalb DKC59-08	46 0	17.4	86	38 2	38 8	55	52 3	32	30	23	0.81	80 5	47 8	3189	19979
Dekalb DKC60-09	43 5	168	87	38 6	37 8	74	47 5	32	28	32	0.75	80 6	49 7	3279	19565
Chemgro 7253 RR	42 3	14 9	80	43 9	32 5	8 1	44 0	35	27	35	072	793	53 4	3253	18313
Pioneer 34M95	42 2	17 1	80	48 3	28 8	80	432	38	25	34	072	82 7	65 4	3588	20602
Pioneer 34M94	41 6	15 2	80	46 4	29 7	86	40 6	36	25	35	0 69	80 8	58 9	3413	18873
Dekath DKC58-78	40 8	16 4	88	39 5	35 4	76	483	36	27	30	077	81 6	53 6	3439	21608
NK Brand N70-D5	403	16 7	8.8	40 7	34 7	98	45 4	34	24	36	072	83 1	58 3	3591	20716
Agway AG6001	40 1	15.8	93	44 7	30 6	78	41 9	38	27	34	072	79 2	53 7	3298	18230
Pionee 34B23	39 9	18.5	87	46 D	28 0	105	39 3	41	28	4 1	0.68	79 6	56 0	3349	20015
Pioneer 34B24	398	184	86	43 6	29 B	118	42 D	38	3 1	38	072	78 3	50 2	3217	20356
Agway AG6191	393	156	91	407	35 5	83	457	37	27	31	075	79 6	50 1	3316	17505
Wolf River Valley 2114L	39 0	15 6	89	42 2	33 3.	100	39 8	32	29	40	0 69	80 5	54 2	3447	17613
Dekalb DKC61-25	38 6	16 5	87	42 2	32 5	10 4	43 2	38	25	35	071	80 1	52 9	3375	19438
Hytest HT 7706	37 7	16 6	89	45 1	30 6	81	432	36	26	37	0.72	79 7	54.2	3381	18904
Golden Harvest H 9233	33 9	14 3	8.5	42 9	30 6	116	46 1	3.8	2.5	38	073	77 9	48 4	3235	16884
Mean	408	16 4	86	42 9	32 7	87	44 1	36	27	35	073	80 1	53 5	3339	19197
LSD (0 10)	22	NS	0.5	NS	49	16	50	03	02	0.4	0.05	NS	61	NS	NS
CV (%)	5 1	13 0	54	113	14 1	17 2	106	77	8 5	12 0	58	44	106	87	160

NDF= Neutral Detergent Fiber, NFC=Non-fiber Carbohydrates, NEI= Net Energy for lactation, IVTD= In Vitro True Digestibility, and NDFD=Neutral Detergent Fiber Digestibility

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Corn **Production** Down

Greg Roth Associate Professor Agronomy Penn State

Corn production in Pennsylvania was estimated at 68 bushels/acre last year, according to the Nov. 1 USDA crop Report. Total production was estimated at 64.6 million bushels, down from 97 million in 2001 and 137 million in 2000.

Maryland production ws estimated at 32.3 million bushels, down from 55.8 million in 2001 and 62.7 million in 2000. Compared to 2000, we produced 102.8 million bushels less in 2002 in Pennsylvania and Maryland than in 2000.

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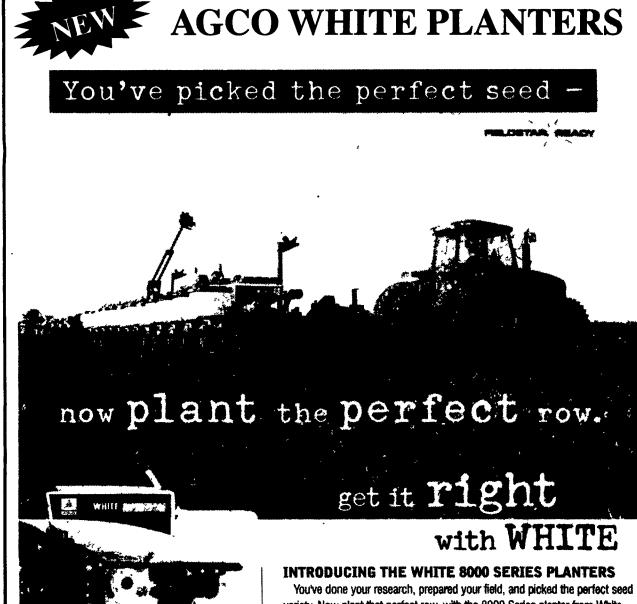
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