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NEW YORK CORN SILAGE HYBRID TESTS – 2005

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Corn silage hybrids were tested at four locations in New York in 2005. We evaluated 95 to 115-day hybrids in relative maturity (RM) at the Aurora Research Farm (Cayuga Co.) and Southview Farms in Groveland Station (Livingston Co.). Both sites average about 2400 growing degree days (GDD, 86-50° system) from May through September. We evaluated 75 to 100 day hybrids in RM at John Greenwood's farm in Madrid (St. Lawrence Co.) and at the Miner Institute at Chazy, NY. Both sites average about 2100 GDD from May through September. All seed companies were invited to enter their hybrids in these tests at a fee. We also included six check hybrids at the four sites at the request from members of the Northeast Dairy Producers' Association (NEDPA).

MATERIALS AND METHODS

We planted all hybrids with a 2-row plot planter at about 36,000 plants/acre to achieve harvest populations of 32,000-34,000 plants/acre. The Aurora site was planted on 29 April and the Groveland Station site on 6 May. The Madrid site was planted on 7 May and the Chazy site on 10 May. All hybrids were grouped within a 5-day RM (i.e. 91-95 day RM, 96-100, etc.), and planted in a randomized complete block design with four replications. This year we grouped the hybrids in 95-99 day, 100-104 day, 105-109 day, and 110-114 day groups at Aurora and Southview to have an even number of hybrids in each group. Each individual plot consisted of two 18-ft. rows spaced 30 inches apart. Each individual plot received about 250 lbs/acre of 10-20-20 at planting. The Aurora and Chazy site received about 140 lbs N/acre of sidedressed N at the 4 to 5-leaf (V4 to V5) stage. The Groveland Station and Madrid sites were well-manured dairy sites so they received no sidedressed N. We used preemergence herbicides and hand-weeding to control weeds. Emergence of each plot was noted.

Both rows of each hybrid were harvested for silage yield with a retrofitted 3-row New Holland Chopper with a platform and a weigh- basket, mounted on load cells. The goal was to harvest all hybrids in the 60-70% moisture range but at some sites the moisture was higher for some hybrids because of weather conditions. The Aurora site was harvested on four dates: 95-99 day RM group on 18 August, 100-104 day RM group on 22 August, 105-109 day RM group on 25 August, and 110-114 day RM group on 26 August. The Groveland Station site was harvested on 30 August, the day after a 0.2 inch rainfall the previous night. The original plan was to harvest just the 95-104 day hybrids at Groveland Station on 30 August and the 105-114 day hybrids on 2 September. The remnants of Katrina, however, were predicted to arrive in western/central NY on the evening of August 30th with heavy winds and 3.5 inches of precipitation. The cooperating farmer had already harvested the entire field so we made the decision to harvest the 106-114 day hybrids on 30 August so they would not be subjected to wind damage from the remnants of Katrina. All hybrids were harvested at Madrid on 6 September. At Chazy, the 75-85 day hybrids were harvested on 8 September during intermittent rain showers and after a 0.2-inch rain the night before. The 86-100 day hybrids were harvested on 9 September.

At each site, one individual stood on the platform to gather an approximate 2000 g sample with a small bucket as the silage was blown from the shoot to the weigh- basket. Another individual on the platform then took the 2000 gram sample and placed it in an air-sealed plastic bag and passed the sample to an individual on the ground. The samples were immediately weighed with a gram-scale and placed on ice in a cooler. At the end of each day, the samples were brought back to a Cornell Research Farm for drying. The samples were dried at 140°F in a forced air drier to constant moisture and then weighed to determine moisture content of each sample.

Samples were processed and analyzed by Cumberland Valley Analytical Services, Inc. Samples were analyzed by wet chemistry for neutral detergent fiber (NDF), according to procedures by Van Soest et al. (1991). Samples were incubated for 30 hours at 39°F in a buffered rumen fluid, according to procedures by Van Soest and Robertson (1980) using a flask system and Van Soest buffer. Following fermentation, residues were analyzed for NDF by wet chemistry to determine 30-hour NDF digestibility (dNDF). The NDF digestibility was calculated as

$([1-\text{NDF residue}/\text{initial NDF}] \times 100)$. The 30-hour dNDF values were then multiplied by 1.16 to estimate 48-hour dNDF values for the Milk2000 program. Other inputs for Milk2000 were determined using NIRS, including crude protein (CP), starch, ether extract, NDF-CP, and ash. Milk per ton and milk per acre were then calculating using the Milk2000 spreadsheet program version 7.5.

Data were analyzed using the PROC GLM procedure of SAS. We initially used a combined analysis across sites. Interactions for either silage yield, milk /ton, or calculated milk yield existed across sites so we presented data on individual sites. The LSD values for separating hybrid means were generated at the $P = 0.10$ level. Hybrids were considered above-average for calculated milk yield, milk/ton, or silage yield when the hybrid's value was 100.5% of the mean value within their RM group.

RESULTS AND DISCUSSION

Aurora and Groveland Station

The 2005 growing season in New York was much warmer than normal with above average GDD from June through August at Aurora and Groveland Station (Table 1). May, however, was exceptionally cool and dry, which resulted in final populations of only 28,000 to 30,000 plants/acre in most plots (data not shown). Both sites remained dry until mid-June. Fortunately, both sites received more than 4.00 inches during the latter half of June. Weather conditions, however, turned exceedingly hot and dry from 7 July until 30 August at both sites. Most of the August rainfall occurred on 31 August after the plots had been harvested at both sites. Nevertheless, the Aurora site had a mean silage yield of 21.9 tons/acre (Table 2) and the Groveland Station site had a mean silage yield of 23.8 tons/acre (Table 3). Hybrid x site interactions were observed for silage yield but not for milk/ton, which indicates inconsistent yield but fairly consistent quality for the hybrids across the two sites. Calculated milk per acre also had a hybrid x site interaction mostly because of the inconsistent hybrid yield across sites.

Five hybrids at Aurora (Table 2) and seven hybrids at Groveland Station (Table 3) had above-average calculated milk yields in the 95-99 day RM group (28,773 lbs/acre at Aurora and 33,696 lbs/acre at Groveland Station). The hybrids in the 95-99 day RM group that had above-average calculated milk yields at both sites include TMF2M405, a check hybrid from Mycogen, 4955XRR from FS Seeds, 38H67 from Pioneer, and 964L from LICA. The hybrid DKC48-60 had above-average calculated milk yield at Aurora, and HL S047 from Hyland, 5424 from Chemgro, and HL SR42 from Hyland had above-average calculated milk yields in the 95-99 day RM group at Groveland Station. When averaged across sites, 4955XRR, 38H67, and 964L had above-average silage yields and milk/ton values. When averaged across sites, TMF2M405 had much above-average silage yields and HL SR42 and DKC48-60 had above-average milk/ton values.

Five hybrids at Aurora and five hybrids at Groveland Station had above-average calculated milk yields in the 100-104 day RM group (26,969 lbs/acre at Aurora and 32,907 lbs/acre at Groveland Station). The hybrids 37K84 from Pioneer, HLS 067 from Hyland, N48-L4 from Northrup King, and DKC54-51(YGCB), had above-average calculated milk yields at both sites. The hybrid HL S058 from Hyland also had above-average calculated milk yields at Aurora and 35A30 from Pioneer had above-average calculated milk yields at Groveland Station. When averaged across sites, 37K84, N48L4, and 35A30 had above-average silage yields and milk/ton values. When averaged across sites, HL S067 and HL S058 had above average silage yields.

Six hybrids at Aurora and six hybrids at Groveland Station had above-average calculated milk yields in the 105-109 RM group (29,855 lbs/acre at Aurora and 30,776 lbs/acre at Groveland Station). The hybrids T.A.557-00F from T.A. Seeds, 34B23 from Pioneer, 34A86 from Pioneer, DG 5324Bt from UAP, and 620 from Doeblers had above-average calculated milk yields at both sites. A check hybrid, 34D71, had above-average calculated milk yields at Aurora and DKC57-84(YGCB) from Dekalb had above-average calculated milk yields at Groveland Station. When averaged across sites, T.A.557-00F, 34B23, 34A86, and DG 5324BT had above-average silage yields and milk/ton values, whereas 620 had above-average silage yield. Overall T.A.557-00F and 34B23 had the highest average silage yields and calculated milk yields in this study.

Seven hybrids at Aurora and ten hybrids at Groveland Station had above-average calculated milk yields in the 110-114 RM group (29,677 lbs/acre at Aurora and 30,448 lbs/acre at Groveland Station). The hybrids 31G66 and 34B39 from Pioneer, DKC63-62(RR2) from DeKalb, H-9493Bt from Golden Harvest, and RX702 RR2/YGCB from Asgrow had above-average calculated milk yields at both sites. The hybrids DKC61-72(RR2) from DeKalb and T.A. 6993 from T.A. Seeds had above-average calculated milk yields at Aurora. The hybrids HT7749Bt/RR2 from Hytest, 8200YG1 from Garst, TH-310 from Heartland, and 33D63 and 34B24 from Pioneer had above-average calculated silage yields at Groveland Station. When averaged across sites, 34B39, H-9493Bt, and 33D63 had above-average silage yields and milk/ton values. When averaged across sites, 31G66 and HT7749Bt/RR2 had above-average silage yields and DKC61-72(RR2), DKC63-62RR2, RX702RR2/YGCB, and TH-310 had above-average milk/ton values.

Madrid and Chazy

The 2004 growing season in Northern NY was warmer than normal with above-average GDD from June through August at Canton (a few miles from Madrid) and Chazy (Table 1). Both sites were exceptionally cool and dry in May, which resulted in final populations of 28,000 to 30,000 plants/acre in most plots. An exception was the hybrid, F24318(F2F357), which had final populations of less than 15,000 plants/acre at both sites. Both sites were exceptionally wet in July, which contributed to excellent yields at Madrid (mean silage yield of 29.2 tons/acre) and Chazy (mean silage yield of 24.0 tons/acre). Hybrids x site interactions were observed for silage yield, milk/ton values, and calculated milk yields.

Two hybrids at Madrid and two hybrids at Chazy had above-average calculated milk yields (35,797 lbs/acre at Madrid and 30,844 lbs/acre at Chazy) in the 75-85 day RM group (Tables 4 and 5). The hybrids HL S014 and HL SR22 from Hyland had above-average calculated milk yields at Madrid, and HL S011 and HL S009 from Hyland had above-average calculated milk yields at Chazy. When averaged across sites, HL S009 had an above-average silage yield and milk/ton value. When averaged across sites, HL S014 and HL S011 had above-average silage yields and HT7060Bt/RR2 had an above-average milk/ton value.

Four hybrids at Madrid and six hybrids at Chazy had above-average calculated milk yields in the 86-90 day RM group (40,789 lbs/acre at Madrid and 32,864 lbs/acre at Chazy). The hybrids HL S034 from Hyland, N34-F1(NX3333) and N29-A2 from Northrup King, and 8922YG1 from Garst had above-average calculated milk yields at both sites. The hybrids HT7220Bt/RR2 from Hytest and N29-G7(NX3113) from Northrup King had above-average calculated milk yields at Chazy. When averaged across sites, N-34-F1 and N29-A2 had above-average silage yields and milk/ton values. When averaged across sites, HL S034 and HT7220Bt/RR2 had above-average silage yields, and 8922YG1, N29-G7, and FS4045, a check hybrid, had above-average milk/ton values.

Seven hybrids at Madrid and seven hybrids at Chazy had above-average calculated milk yields in the 91-95 day RM group (41,954 lbs/acre at Madrid and 32,072 lbs/acre at Chazy). The hybrids TMF2N422 and T23326 from Mycogen, 8787YG1 from Garst, TNT-92RR2 from Hytest and 469XP from Doebler's had above-average milk yields at both sites. The hybrids 3030Bt from Northrup King and 4453XRR from FS Seeds had above-average calculated milk yields at Madrid. The hybrids N33-H6 from Northrup King and 38B85 from Pioneer had above-average calculated milk yields at Chazy. When averaged across sites, TMF2N422, T23326, and TNT-92RR2 had above-average silage yields and milk/ton values. When averaged across sites, 8787YG1, N33-H6, 4453XRR, 469XP and 38B85 had above-average silage yields. When averaged across sites, F24318 (F2F357) from Mycogen, T.A.4010F from T.A.Seeds, 3030Bt, and DG 53P30 from UAP had above-average milk/ton values.

CONCLUSION

The 2005 growing season in New York was exceptionally cool and dry in May and excessively warm for the remainder of the growing season. Silage harvest in most regions began in late August and was completed by mid-to late-September. Those areas that received timely

rains in July and early August had above-average yields. The results from this study reflect well the yield and quality of corn silage that was planted in April and May of 2005 in New York.

The results of this study will be incorporated into the recommended corn silage tables in our annual Cornell Guide for Integrated Field Crop Management. We only list hybrids that have above-average relative calculated milk yields in their hybrid RM group (i.e. 96-100, 101-105 day RM, etc.). We also list the relative silage yields and milk/ton values for the recommended hybrids. The Cornell Guide for Integrated Field Crop Management is now at our web site: www.fieldcrops.org. We will update our recommended corn silage hybrids soon so please access this site in mid to late December. We urge all seed companies to participate in our corn silage testing program so we can provide the best information to our New York dairy producers.

Table 1. NYS Corn Silage Trials - Weather Data, 2005 Growing Season

Month	Precipitation					GDD (86-50 F)				
	Groveland					Groveland				
	Aurora	Station*	Madrid**	Watertown	Chazy***	Aurora	Station	Madrid	Watertown	Chazy
May	1.00	1.22	0.72	2.15	2.27	233	238	199	220	178
June	4.33	5.80	1.27	3.27	5.54	654	593	611	636	580
July	2.05	2.58	6.26	6.11	3.85	742	689	680	721	641
August	5.91	4.29	2.38	5.94	3.81	716	673	636	693	623
Seasonal	13.29	13.89	10.63	17.47	15.47	2345	2193	2126	2270	2022

* Weather data from Dansville.
 ** Weather data from Canton.
 *** Weather data from Plattsburgh.

Table 2. Aurora NY, 2005

Hybrid	Brand/ Company	Silage		30 hour			Milk2000		Milk Yield
		Yield	Moisture	NDF	dNDF	CP	Starch	Milk/ton	
		tons @65	%DM	%DM	%	%DM	%DM	lbs/ton	
95 to 99-d RM									
TMF 2M405	Check	24.6	69.5	43.7	61.1	8.2	26.3	3862	33256
4955XRR	FS Seeds	22.7	69.1	41.4	61.6	7.7	29.3	3953	31405
38H67	Pioneer	21.4	66.4	38.6	59.3	7.6	34.6	4079	30537
964L	LICA	21.5	67.0	43.6	62.1	8.0	27.9	3996	30055
DKC48-60	DEKALB	21.0	67.8	40.1	61.5	7.7	30.8	3977	29373
HL SR42	Hyland	20.5	69.0	40.2	62.0	8.2	29.8	3979	28564
TMF94	Check	20.2	69.9	40.9	62.4	8.3	28.6	3966	27998
HL S041	Hyland	19.9	69.3	41.6	60.9	8.3	29.7	3971	27751
E390L	Check	20.6	69.6	45.6	59.5	8.3	24.8	3777	27216
HL S047	Hyland	19.6	67.5	42.9	61.0	8.0	28.0	3913	26853
4717	FS Seeds	20.1	68.0	43.2	55.3	8.2	28.0	3725	26300
5424	Chemgro	18.7	67.3	42.7	58.6	8.0	29.9	3953	25971
100 to 104-d RM									
37K84	Pioneer	22.5	65.0	40.2	56.6	7.7	32.0	3876	30637
HL S058	Hyland	22.7	70.1	47.2	60.8	7.6	21.0	3575	28510
N48-L4	NK	20.7	66.4	43.6	61.5	7.9	27.0	3912	28485
HL S067	Hyland	21.9	70.7	48.6	62.6	8.0	20.4	3712	28416
DKC54-51(YGCB)	DEKALB	21.4	70.2	40.8	58.9	7.9	27.0	3636	27303
35A30	Pioneer	20.7	69.1	42.1	60.1	8.1	26.6	3749	27084
HT7428Bt/RR	Hyttest	21.0	69.0	41.2	55.9	8.3	28.1	3654	26810
537RR	Check	20.6	70.4	45.0	58.3	7.7	25.7	3729	26779
8535YGL	Garst	20.3	70.7	41.9	58.8	7.8	27.1	3698	26264
DKC52-23(RR2/YGCB)	DEKALB	18.7	68.8	43.4	58.8	7.8	27.1	3774	24628
DG 55P98	UAP	18.3	69.4	43.8	60.1	7.8	26.9	3830	24544
494RYG	Doebler's	18.9	69.2	43.3	55.4	8.1	27.2	3655	24172
105 to 109-d RM									
TA557-00F	T.A. Seeds	27.0	64.3	42.8	61.1	7.8	27.9	3929	37251
34B23	Pioneer	26.3	68.5	41.4	63.3	7.9	28.6	3992	36707
34A86	Pioneer	23.9	66.3	43.8	62.3	8.0	27.3	3970	33093
DG 5324Bt	UAP	23.2	69.5	42.3	60.8	8.3	28.2	3936	31994
620	Doebler's	23.3	68.5	44.3	60.4	7.9	25.8	3775	30693
34D71	Pioneer	22.2	65.1	40.4	58.2	7.8	30.7	3874	30132
TH-305	Heartland	22.4	68.2	41.8	61.3	8.5	26.8	3828	29972
F2F581	Mycogen	19.6	69.6	40.5	75.4	8.2	27.4	4359	29931
DKC5781	Check	22.2	66.6	39.9	57.6	7.7	29.9	3750	29092
1084L	LICA	22.8	68.0	46.9	60.6	7.9	21.9	3637	28996
HT7615Bt/CRW	Hyttest	22.6	69.9	41.5	58.1	8.4	25.5	3570	28205
5636	FS Seeds	21.3	66.7	41.4	56.6	7.5	29.5	3744	27929
H-8562	GH	21.0	69.5	42.3	57.7	8.0	28.6	3793	27904
TMF2N602	Mycogen	22.5	69.5	47.5	59.3	7.5	19.9	3431	27026
DKC57-84(YGCB)	DEKALB	20.9	66.9	39.7	57.5	8.2	28.8	3689	27002
307	LICA	16.3	69.7	39.8	60.6	7.8	29.3	3823	21754

Table 2. Aurora, NY, 2005 (page 2)

Hybrid	Brand/ Company	Silage		NDF	30 hour		Milk2000		Milk Yield	
		Yield tons @65	Moisture %DM		dNDF %	CP %DM	Starch %DM	Milk/ton lbs/ton		Milk Yield lbs/acre
			110 to 114-d RM							
31G66	Pioneer	25.2	67.7	45.2	60.5	7.3	24.5	3717	32765	
34B39	Pioneer	24.2	66.6	42.3	62.7	7.5	26.7	3846	32589	
DKC61-72(RR2)	DEKALB	23.8	66.6	42.0	58.1	7.9	28.1	3782	31483	
H-9493Bt	GH	24.5	70.2	42.3	60.4	7.3	25.5	3638	31266	
RX702 RR2/YGCB	ASGROW	22.9	67.0	42.7	59.8	7.8	26.8	3771	30239	
DKC63-62RR2	DEKALB	22.8	68.2	43.1	60.7	8.1	25.8	3781	30135	
TA6993	T.A. Seeds	23.3	68.9	40.7	57.5	8.1	27.5	3654	29845	
33D63	Pioneer	22.9	68.1	42.9	61.3	8.3	24.8	3697	29708	
HT7749Bt/RR2	Hyttest	24.0	69.7	42.1	58.9	7.4	24.5	3492	29428	
TH-310	Heartland	22.7	70.0	42.3	59.3	7.7	25.4	3610	28714	
H-8920	GH	22.2	68.0	42.1	57.4	8.2	26.9	3693	28634	
DG 58K56	UAP	23.9	73.4	47.5	59.7	7.7	19.1	3411	28583	
648RYG	Doebler's	22.7	68.8	39.9	56.7	7.9	27.6	3574	28458	
34B24	Pioneer	21.1	69.2	43.1	61.4	8.1	26.4	3845	28386	
8200YGL	Garst	23.2	70.3	43.6	61.6	7.5	21.7	3479	28329	
1114L	LICA	22.1	69.8	46.7	59.8	7.9	19.1	3399	26265	
	LSD 0.10	2.34	1.21	1.94	2.93	0.41	2.37	164	3374	
	Overall Mean	21.9	68.6	42.7	60.0	7.9	26.8	3776	28954	

Table 3. Groveland Station, NY, 2005

Hybrid	Brand/ Company	Silage		30 hour			Milk2000		Milk Yield
		Yield	Moisture	NDF	dNDF	CP	Starch	Milk/ton	
		tons @65	%DM	%DM	%	%DM	%DM	lbs/ton	
95 to 99-d RM									
HL S047	Hyland	26.6	67.8	42.3	57.8	6.8	31.5	3882	36134
4955XRR	FS Seeds	26.1	68.6	39.5	58.0	6.2	33.6	3934	35977
TMF 2M405	Check	26.8	70.9	43.4	57.5	6.7	30.0	3834	35889
38H67	Pioneer	25.4	67.8	37.0	57.7	6.5	37.6	4013	35556
5424	Chemgro	26.3	68.9	42.6	56.2	6.9	30.6	3815	35070
HL SR42	Hyland	25.0	70.2	40.6	59.8	6.9	32.5	3987	34811
964L	LICA	25.3	68.9	41.9	57.6	6.3	31.3	3853	34197
DKC48-60	DEKALB	24.2	68.0	38.9	58.0	6.2	34.6	3929	33158
E390L	Check	23.7	69.5	44.4	60.2	6.6	29.5	3948	32578
HL S041	Hyland	23.7	69.5	40.6	58.8	6.7	30.9	3862	31938
TMF94	Check	22.1	70.0	41.9	59.2	6.7	30.8	3916	30302
4717	FS Seeds	20.9	69.6	41.6	58.6	6.2	33.2	3930	28743
100 to 104-d RM									
HL S067	Hyland	26.6	71.5	47.0	59.4	6.4	26.3	3820	35497
37K84	Pioneer	25.0	66.7	38.7	56.7	6.2	36.5	3908	34127
N48-L4	NK	25.4	69.9	41.7	56.8	6.4	31.0	3817	33996
35A30	Pioneer	24.8	70.9	42.4	59.2	6.1	31.4	3912	33980
DKC54-51(YGCB)	DEKALB	25.1	71.3	41.7	56.5	6.6	32.2	3827	33575
HT7428Bt/RR	Hyttest	24.2	70.2	41.0	57.3	6.3	34.2	3883	32907
DG 55P98	UAP	24.5	71.0	41.7	56.7	6.6	31.6	3823	32831
8535YGL	Garst	25.1	72.4	41.9	54.3	6.2	31.2	3719	32673
HL S058	Hyland	24.4	72.9	46.1	58.8	6.3	25.9	3730	31911
537RR	Check	24.3	70.6	43.0	56.7	6.2	29.7	3749	31897
494RYG	Doebler's	23.2	70.7	42.5	56.3	6.3	30.8	3794	30805
DKC52-23(RR2/YGCB)	DEKALB	22.5	70.1	40.9	58.3	6.1	32.5	3897	30684
105 to 109-d RM									
TA557-00F	T.A. Seeds	26.8	69.1	46.1	60.3	5.9	28.8	3921	36703
34B23	Pioneer	26.7	71.6	43.5	60.9	6.3	29.0	3917	36672
34A86	Pioneer	27.3	71.1	44.5	57.8	6.0	30.4	3816	36457
620	Doebler's	24.3	72.9	47.3	59.3	6.4	24.6	3696	31476
DG 5324Bt	UAP	23.0	73.6	44.7	60.7	6.3	28.2	3909	31454
DKC57-84(YGCB)	DEKALB	23.4	71.5	40.3	57.3	6.3	32.0	3814	31271
1084L	LICA	23.0	71.8	48.3	61.1	6.2	25.1	3854	30842
TMF2N602	Mycogen	23.6	73.6	47.4	58.8	5.7	24.5	3624	29921
5636	FS Seeds	22.3	71.3	42.5	57.9	5.9	31.3	3830	29910
DKC5781	Check	22.6	71.4	41.4	56.9	6.2	30.7	3756	29774
HT7615Bt/CRW	Hyttest	22.1	73.1	42.8	58.6	6.1	29.0	3769	29171
TH-305	Heartland	21.2	72.5	44.7	61.1	6.1	28.5	3935	29129
H-8562	GH	21.6	72.9	43.7	58.2	6.0	30.1	3835	28875
34D71	Pioneer	22.0	71.3	43.5	55.7	6.4	29.3	3708	28594
F2F581	Mycogen	18.4	74.5	40.8	70.5	7.1	29.6	4274	27541
307	LICA	18.2	72.6	41.7	60.0	6.5	29.5	3840	24464

Table 3. Groveland Station, NY, 2005 (page 2)

Hybrid	Brand/ Company	Silage		NDF	30 hour		Milk2000		Milk Yield
		Yield tons @65	Moisture %DM		dNDF %	CP %DM	Starch %DM	Milk/ton lbs/ton	
110 to 114-d RM									
HT7749Bt/RR2	Hytest	25.9	72.8	43.4	58.3	5.9	28.2	3718	33614
33D63	Pioneer	24.5	72.7	44.6	59.2	6.3	27.8	3785	32436
DKC63-62RR2	DEKALB	23.5	73.2	44.2	60.4	6.3	28.9	3921	32199
8200YGL	Garst	25.3	73.0	43.9	61.6	5.3	25.7	3626	32187
31G66	Pioneer	25.8	73.2	48.3	57.8	6.1	23.0	3530	31841
34B39	Pioneer	23.9	72.7	43.9	60.6	6.1	27.9	3810	31783
TH-310	Heartland	24.0	74.4	44.2	59.5	6.3	27.6	3777	31673
H-9493Bt	GH	23.8	73.1	42.9	61.1	6.0	27.8	3771	31432
RX702 RR2/YGCB	ASGROW	23.9	72.8	45.5	57.0	6.1	28.4	3732	31253
34B24	Pioneer	23.0	73.7	44.3	58.2	6.4	28.5	3798	30669
DKC61-72(RR2)	DEKALB	22.2	70.7	42.7	59.7	6.0	30.9	3896	30257
H-8920	GH	22.7	72.3	43.9	57.7	6.4	29.0	3782	30087
648RYG	Doebler's	23.1	73.8	43.8	56.3	6.2	27.8	3635	29399
1114L	LICA	23.6	74.7	47.7	59.7	6.0	21.5	3495	28950
TA6993	T.A. Seeds	19.6	73.7	43.6	57.7	6.1	28.7	3754	25719
DG 58K56	UAP	21.6	76.3	50.1	56.6	5.7	17.7	3131	23663
	LSD 0.10	3.37	1.00	2.07	2.69	0.39	1.94	135	4473
	Overall Mean	23.8	71.5	43.3	58.6	6.3	29.4	3881	31762

Table 4. Madrid NY, 2005

Hybrid	Brand/ Company	Silage		NDF	30 hour		Starch	Milk2000	
		Yield	Moisture		dNDF	CP		Milk/ton	Milk Yield
		tons_65	%DM	%DM	%	%DM	%DM	lbs/ton	lbs/acre
77 to 85-d RM									
HL S014	Hyland Seeds	28.3	58.8	39.3	54.0	8.9	32.6	3813	37795
HL SR22	Hyland Seeds	28.2	63.2	39.2	53.0	8.4	34.3	3802	37581
HT7060BI/RR2	Hyttest Seeds	26.0	60.2	37.0	53.9	8.3	37.6	3946	35871
Doebler's277xyb	Check	25.6	62.8	39.3	56.4	8.1	35.2	3958	35539
HL S009	Hyland Seeds	26.2	59.1	40.4	56.0	8.1	31.6	3867	35415
HL S011	Hyland Seeds	25.4	61.0	38.9	52.0	9.6	30.6	3668	32579
86 to 90-d RM									
HL S034	Hyland Seeds	33.5	63.1	39.3	55.7	8.1	33.9	3906	45850
N34-F1 (NX3333)	NK	32.3	63.0	37.5	56.5	8.4	35.9	3965	45016
N29-A2	NK	30.3	61.1	35.8	55.1	7.7	39.3	3969	42115
8922YG1	Garst	29.8	64.8	37.0	56.3	7.6	38.6	3961	41363
HT7220BI/RR2	Hyttest Seeds	31.5	65.0	38.0	50.4	8.1	34.6	3718	40960
N29-G7 (NX3113)	NK	28.4	58.8	35.6	54.4	7.4	39.6	3950	39222
FS4045	Check	27.3	64.9	34.4	55.7	7.8	39.6	3996	38262
383X	Doebler's	28.1	66.0	40.4	55.6	8.0	34.1	3865	38029
904L	LICA	27.2	66.7	40.0	55.0	9.4	31.0	3808	36287
91 to 95-d RM									
8787YG1	Garst	34.2	66.3	37.8	54.7	7.9	35.0	3890	46626
3030Bt	NK	32.5	59.6	36.7	57.4	7.5	38.6	4051	46014
T23326	Mycogen	32.8	65.0	39.0	56.2	7.9	34.7	3934	45212
TMF2N422	Mycogen	32.1	64.2	39.5	58.1	7.9	34.8	4005	44956
TNT-92RR2	Hyttest Seeds	31.7	65.6	37.3	56.9	7.6	37.2	3999	44381
4453XRR	FS Seeds	32.6	64.2	37.1	54.5	8.1	36.0	3889	44342
469XP	Doebler's	31.6	65.2	39.5	53.3	8.2	34.8	3814	42204
TH-395	Heartland	30.5	68.5	40.0	57.2	8.4	32.9	3955	42162
N33-H6	NK	31.3	66.8	38.7	54.2	8.7	32.6	3760	41425
38B85	Pioneer	30.8	63.6	38.9	54.3	7.8	35.1	3838	41364
TA4010F	T.A. Seeds	28.7	66.3	37.2	61.7	8.4	34.4	4124	41325
DG 53P30	UAP	28.4	65.9	36.0	58.7	7.7	37.7	4085	40548
DKC42-95(RR2/YGCB)	Dekalb	28.8	66.6	38.3	54.8	8.5	35.9	3881	39195
38R69	Pioneer	26.8	63.7	36.3	55.1	8.4	34.4	3802	35808
TA3890	T.A. Seeds	25.5	64.5	39.0	52.6	8.3	34.7	3787	33751
F24318 (F2F357)	Mycogen	11.0	69.2	39.8	67.0	9.2	29.4	4165	16081
96 to 100-d RM									
TMF2M405	Check	32.6	66.7	41.0	57.4	7.9	32.4	3913	44654
Pio 38H67	Check	30.7	62.5	36.9	55.1	7.8	36.6	3874	41601
TMF94	Check	30.1	65.0	39.8	56.8	7.9	33.0	3850	40720
470RR	Doebler's	30.9	67.1	42.7	53.7	7.7	30.2	3710	40113
FS4717	Check	29.2	66.1	39.7	54.5	8.4	32.6	3778	38625
LSD 0.10		3.20	2.50	2.22	3.38	0.53	3.31	195	5192
Overall Mean		29.2	64.2	38.4	55.7	8.2	34.8	3897	39805

Table 5. Chazy NY, 2005 Revised

Hybrid	Brand/ Company	Silage		NDF	30 hour		Starch	Milk2000	
		Yield	Moisture		dNDF	CP		Milk/ton	Milk Yield
		tons_65	%DM	%DM	%	%DM	%DM	lbs/ton	lbs/acre
				77 to 85-d RM					
HL S011	Hyland Seeds	25.6	63.7	42.4	53.9	8.7	31.8	3765	33788
HL S009	Hyland Seeds	24.7	62.1	42.5	56.4	8.6	33.1	3883	33509
HL S014	Hyland Seeds	22.8	64.8	43.5	55.9	9.0	31.5	3859	30701
HT7060Bt/RR2	Hyttest Seeds	22.0	65.1	38.8	56.2	8.1	37.4	3974	30600
Doebler's277xyb	Check	22.1	69.6	45.6	55.4	9.0	30.1	3748	28897
HL SR22	Hyland Seeds	21.1	71.2	46.5	55.4	8.8	28.5	3714	27571
				86 to 90-d RM					
HT7220Bt/RR2	Hyttest Seeds	28.7	68.7	41.7	54.4	7.9	33.9	3797	38086
HL S034	Hyland Seeds	26.5	71.5	45.4	58.5	7.9	29.7	3857	35763
N29-A2	NK	25.1	68.3	39.1	57.4	7.6	35.8	3968	34905
N34-F1 (NX3333)	NK	25.2	66.5	39.8	57.1	7.2	37.2	3934	34755
N29-G7 (NX3113)	NK	24.4	67.6	37.9	56.0	7.4	37.8	3930	33624
8922YG1	Garst	23.8	67.9	37.1	56.9	7.7	38.6	3976	33062
FS4045	Check	23.0	69.0	38.5	57.5	7.7	37.0	3958	31832
383X	Doebler's	21.0	70.2	45.3	55.0	7.7	28.7	3706	27238
904L	LICA	20.9	70.6	46.2	54.3	8.9	27.1	3624	26507
				91 to 95-d RM					
TMF2N422	Mycogen	29.7	72.4	49.4	55.2	8.9	26.4	3635	37628
T23326	Mycogen	27.6	71.9	45.4	56.6	9.1	29.1	3780	36475
TNT-92RR2	Hyttest Seeds	24.9	72.9	47.2	59.5	9.1	29.9	3892	33872
N33-H6	NK	27.5	72.2	48.3	53.6	9.2	25.7	3526	33857
38B85	Pioneer	26.3	68.6	45.5	52.4	8.8	31.6	3606	33226
8787YG1	Garst	27.1	73.5	47.0	50.9	9.2	28.6	3477	33057
469XP	Doebler's	26.2	71.8	48.2	52.0	9.0	29.0	3529	32343
DG 53P30	UAP	24.1	70.3	40.9	54.9	8.6	37.7	3805	32120
TA4010F	T.A. Seeds	24.1	73.0	44.4	56.1	9.2	32.2	3771	31761
3030Bt	NK	23.6	70.3	42.6	55.7	8.4	34.6	3813	31593
TH-395	Heartland	26.7	75.0	50.8	50.6	9.8	24.3	3359	31451
4453XRR	FS Seeds	26.0	71.8	48.8	49.5	9.0	27.8	3404	30961
38R69	Pioneer	22.5	69.6	42.5	54.9	9.2	34.6	3779	29840
DKC42-95(RR2/YGCB)	Dekalb	21.7	71.4	42.5	54.2	8.8	35.1	3723	28247
TA3890	T.A. Seeds	20.2	71.9	47.9	51.5	9.4	27.6	3485	24653
F24318 (F2F357)	Mycogen	9.3	76.7	46.8	69.8	10.7	25.8	4313	14082
				96 to 100-d-RM					
TMF2M405	Check	27.3	72.0	43.3	58.3	8.1	30.0	3887	37295
FS4717	Check	25.3	70.8	43.1	55.6	8.2	31.6	3788	33577
TMF94	Check	22.3	71.4	40.5	60.8	8.4	32.7	4054	31598
470RR	Doebler's	23.7	70.6	47.4	56.6	7.7	26.4	3698	30596
Pio 38H67	Check	22.6	70.0	43.0	57.5	7.4	33.5	3856	30560
	LSD 0.10	2.09	1.88	3.31	2.91	0.59	3.31	176	3172
	Overall Mean	24.0	70.1	44.0	55.7	8.6	31.4	3774	31656