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NEW YORK CORN SILAGE HYBRID TESTS – 2008

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Corn silage hybrids were tested at four locations in New York in 2008. 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 80 to 100-day hybrids in RM at John Greenwood's farm in Madrid (St. Lawrence Co.) and at Ron Robbins's farm in Sackets Harbor (Jefferson Co.). 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.

MATERIALS AND METHODS

We planted all hybrids with a 2-row plot planter at 36,000 plants/acre to achieve harvest populations of 32,000-34,000 plants/acre. The Aurora site was planted on 25 April and the Groveland Station site on 30 April. The Sackets Harbor site was planted on 6 May and the Madrid site on 7 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. Each individual plot consisted of two 22-ft. rows spaced 30 inches apart. Each individual plot received about 250 lbs/acre of 10-20-20 at planting. The Aurora site received about 140 lbs N/acre of sidedressed N at the 4 to 5-leaf (V4 to V5) stage. The Groveland Station, Sackets Harbor, and Madrid sites were well-manured dairy sites so they received no sidedressed N. We used preemergence herbicides and hand-weeding to control weeds.

Both rows, trimmed back to an 18-foot length, 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 and only a very few of the hybrids were outside that range at each site.

The Aurora site was harvested on three dates: 95-100 day RM on 28 August, 101-105 and 106-110 day RM groups on 2 September, and 111-115 day RM group on 4 September. All hybrid RM groups were harvested at Groveland Station on 9 September, at Sackets Harbor on 11 September, and at Madrid on 19 September.

An approximate 10,000 g well-mixed sample was originally collected from the chopper after harvest of each plot. The 10,000 g sample was then ground further in the field with a chipper-shredder. An approximate 700 g sub-sample was then weighed with a gram-scale in the field and refrigerated in a generator-powered freezer (samples were not frozen). 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 (NDFD). The NDF digestibility was calculated as $([1 - \text{NDF residue}/\text{initial NDF}] \times 100)$. Crude protein (CP), starch, ether extract, and ash were determined using NIRS. Milk per ton and milk per acre were then calculated using the Milk2006 spreadsheet program (Tables 2-5).

Data were analyzed using the PROC GLM procedure of SAS. The LSD values for separating hybrid means were generated at the $P = 0.10$ level. Hybrids are considered above-average for calculated milk yield, milk/ton, or silage yield when the hybrid's value is 101% or more of the mean value within their RM group across sites (and much-above average with values more than 105%).

RESULTS AND DISCUSSION

Aurora and Groveland Station

The 2008 growing season at both locations was drier than normal from mid-April until mid-June (Table 1). Conditions then turned exceedingly wet with both sites recording about 12 inches of precipitation from mid-June through mid-August. Conditions turned dry again, especially in September, which facilitated silage harvest. Also, May and August were exceptionally cool months with almost 100 growing degree days (GDD) below normal recorded in each month at each site. June was an exceptionally warm month, however, and July was slightly above normal so corn development was only a few days later than normal.

The exceedingly wet conditions in July and early August resulted in stress-free conditions during the tassel/silk period. Also, cool August temperatures allowed for stress-free conditions during grain-filling. The wet conditions from mid-June until mid-August and cool August conditions contributed to the very high yields at both sites. Silage yields for the 95-100 day RM averaged 24.8 tons/acre at Aurora and 29.0 tons/acre at Groveland Station, the 101-105 day RM group averaged 26.3 and 30.5 tons/acre, the 106-110 day RM group averaged 27.1 and 31.5 tons/acre, and the 111-115 day RM group averaged 27.0 and 31.1 tons/acre, respectively.

Seven hybrids at Aurora and nine hybrids at Groveland Station had above-average calculated milk yields in the 94-100 day RM group in 2008 (Tables 2 and 3). The hybrids, 88C97CB/LL from Garst, 54T42 from Dyna-Gro Seed, 1900F/RR/HX from LICA, 5057VT3 from GROWMARK FS, and N39Q-CB/LL/RW, an NK brand, had above-average milk yields at both sites. Also, 946 LRR from LICA and F2F487 from Mycogen have above-average milk yields at Aurora, whereas HiD.F.-3000-6 from Dairyland Seed, 99 S7 from LICA, 4888 from GROWMARK FS, and DKC50-44, a DEKALB brand, had above-average milk yields at Groveland Station. When averaged across sites, F2F487 had a much above-average milk/ton value, whereas 4888 and DKC50-44 had above-average milk/ton values. When averaged across sites, 5057VT3, HiD.F.-3000-6, 54T42, 88C97CB/LL, 1900F/RR/HX, and 99 S7 had much-above average silage yields.

Eleven hybrids at Aurora and seven hybrids at Groveland Station had above-average calculated milk yields in the 101-105 day RM group (Tables 2 and 3). The hybrids, 1056 SRR from LICA, HL B337 from Hyland, TA557-00F from T.A. Seeds, 552GR from Doebler's, and HL SVT50 and HL S067 from Hyland had above-average milk yields at both sites. The hybrids, HL SR59 from Hyland, 8688GT and 87Y26GT from Garst, DKC52-59, a DEKALB brand, and 5288XRR from GROWMARK FS, had above-average milk yields at Aurora. The hybrid, DKC54-49, a DEKALB brand, had above-average milk yields at Groveland Station. When averaged across sites, F2F566 had much-above average and 552GR had above-average milk/ton values. Other hybrids with above-average milk/ton values include 87Y26GT, N48G-CB/LL/RW, an NK brand, 8688GT, and DKC52-59. When averaged across sites, 1056 SRR, HL B337, and HL SVT50 had much-above average silage yields.

Five hybrids at Aurora and six hybrids at Groveland Station had above-average calculated milk yields in the 106-110 day RM group (Tables 2 and 3). The hybrids, HTS62-01CR from HYTEST SEEDS, N64Z-CB/LL/RW, an NK brand, 34A89 from Pioneer, and 660BVR from Doebler's had above-average milk yields at both sites. The hybrid, 35A34 from Pioneer, had an above-average milk yield at Aurora. The hybrid, TA607-20 from T.A. Seeds, had the highest milk yield and TMF2W726 also had above-average milk yield at Groveland Station. When averaged across sites, F2F610 had a much-above average milk/ton value. Other hybrids with above-average milk/ton values include 35F44 and 35A34 from Pioneer and N64Z-CB/LL/RW. When averaged across sites, HTS62-01CR, TA607-20, 34A89, 660BVR, and N64Z-CB/LL/RW had much-above average silage yields.

Ten hybrids at Aurora and nine hybrids at Groveland Station had above-average calculated milk yields in the 111-115 day RM group (Tables 2 and 3). The hybrids, DKC61-69, a DEKALB brand, 6277VT3 from GROWMARK FS, 33F88 from Pioneer, DKC67-87, a DEKALB brand, 57V40 from Dyna-

Gro Seed, TMF2Q716 from Mycogen, and TA689-00F from T.A. Seeds had above-average milk yields at both sites. The hybrids, 34B41 from Pioneer, TA688-11 from T.A. Seeds, and HiD.F.-3012-6 from Dairyland Seed had above-average milk yields at Aurora. The hybrids, NG6793 from Fielder's Choice and 83L65CB/LL/RW, an NK brand, had above-average milk yields at Groveland Station. When averaged across sites, F2F725 from Mycogen had a much above-average milk/ton value. Other hybrids with above-average milk/ton values include TA688-11 from T.A. Seeds, 83L65CB/LL/RW from Garst, DKC61-69, and 57V40. When averaged across sites, DKC67-87, TA689-00F, and DKC61-69 had much-above silage yields, whereas 6277VT3, 33F88, and TMF2Q716 had above-average silage yields.

Madrid and Sackets Harbor

The 2008 growing season in Northern NY was mostly similar to that in central/western NY (Table 1). Conditions were moderately dry at both sites from late April until mid-June and then turned exceedingly wet. June and July were exceptionally wet at Madrid and July and August were exceptionally wet at Sackets Harbor. September was moderately dry at both sites, which facilitated harvest. Frost did not occur until early October at Sackets Harbor but a light frost occurred the morning of September 19 at Madrid, the day of harvest. As in central/western NY, silage yields were high because of stress-free conditions and the 80-89 day RM group averaged 24.0 at Sackets Harbor and 25.0 tons/acre at Madrid, the 90-95 day RM group averaged 26.1 and 26.0, and the 96-100 day RM group averaged 27.2 and 26.4 tons/acre, respectively.

Three hybrids at Sackets Harbor and four hybrids at Madrid had above-average calculated milk yields in the 80-89 day RM group (Tables 4 and 5). The hybrids, TA290-19 and TA240-00 from T.A. Seeds, and HL SR35 from Hyland had above-average milk yields at both sites. The hybrid, DKC38-89, a DK brand, also had above-average milk yields at Madrid. The hybrid F2F29/F27311 from Mycogen had a much above-average milk/ton value at both sites. Other hybrids with above-average milk/ton values include DKC38-39 and TA240-00. When averaged across sites, TA290-19, HL R35, and TA240-00 had much above-average silage yields.

Twelve hybrids at Sackets Harbor and 11 hybrids at Madrid had above-average milk yields in the 90-95 day RM group (Tables 4 and 5). The hybrids, HL B294 from Hyland, 946 LRR and 1900F/RR/HX from LICA, TMF2L416 and TMF2N422 from Mycogen, 99 S7 from LICA, and HL S047 from Hyland had above-average milk yields at both sites. The hybrids DKC45-79, a DEKALB brand, UFO 105B6 from LICA, 4282VT3 from GROWMARK FS, 88H48GT from Garst, and TNT-92RR from HYTEST SEEDS, had above-average milk yields at Sackets Harbor. The hybrids, 38H08 and 38N47 from Pioneer, 467BVR from Doeblers, and HL SR42 from Hyland, had above-average milk yields at Madrid. The hybrid UFO 105B6 had a much-above milk/ton value in the 90-95 day RM group. Other hybrids with above-average milk/ton values include HL SR42, TMF2L416, TMF2N422, and HL B294. When averaged across sites, HL B294, 1900F/RR/HX, 946 LRR, 99 S7, TMF2L416, and TMF2N422, had much above-average silage yields in the 90-95 day RM group.

Three hybrids at Sackets Harbor and three hybrids at Madrid had above-average calculated milk yields in the 96-100 day RM group (Tables 4 and 5). The hybrid 36Y26 from Pioneer had above-average milk yields at both sites. The hybrids, DKC50-44, a DEKALB brand, and TA489-00F from T.A. Seeds, had above-average milk yields at Sackets Harbor. The hybrids TA476-11 from T.A. Seeds and NG6520 from Fielder's Choice had above-average milk yields at Madrid. When averaged across sites, 38H72 from Pioneer had an above-average milk/ton value, as did 36Y26 and DKC50-44. When averaged across sites, TA476-11, DKC50-44, and TA489-00F had above-average silage yields.

CONCLUSION

The 2008 growing season in New York was almost ideal for corn. May was dry, which allowed for timely planting, conditions stayed dry until mid-June, which allowed corn to maintain uniform growth in all parts of the field, including the somewhat poorly-drained areas. June was warm, which allowed for excellent vegetative growth, July and August were wet, which allowed for excellent kernel set, and August was cool, which allowed for excellent grain-filling. Finally, September was dry and frost did not occur until

the first or second week of October in most regions of the state, except for light frosts during the latter part of September in isolated regions. The results from this study reflect well the yield and quality of corn silage in New York in 2008, except those regions that suffered from hail damage in June or wind damage in September.

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. Look for the updated recommended hybrids first in our newsletter, **What's Cropping Up?** (soon at our web site: www.fieldcrops.org). We urge all seed companies to participate in our corn silage testing program in 2008 so we can provide the best information to our New York dairy producers.

Table 1. Monthly and seasonal precipitation and growing degree days (GDD, 86-50 F system) at the four experimental sites for the 2008 Cornell corn silage hybrid trials.

Month	Precipitation				GDD (86-50 F)			
	Groveland				Groveland			
	Aurora	Station*	Sackets Harbor**	Madrid***	Aurora	Station	Sackets Harbor	Madrid
May	1.39	1.28	2.74	2.62	236	257	222	229
June	3.81	4.85	3.00	5.66	586	568	495	513
July	5.44	5.19	4.39	4.28	677	647	571	599
August	3.03	4.89	4.68	2.67	547	521	497	490
Sept.	1.81	2.65	2.96	2.32	414	414	366	373
Seasonal	15.48	18.86	17.77	17.55	2460	2407	2151	2204

* Weather data from Dansville.

** Weather data from Watertown.

*** Weather data from Canton.

Table 2. Silage yield (adjusted to 65% moisture), moisture at harvest, quality characteristics, milk/ton, and calculated milk yields of corn hybrids at the Aurora Research Farm in Cayuga Co. in 2008.

Brand/ Company	Hybrid	Silage		30 hour			Starch	Milk2006	Milk2006
		Yield	Moisture	NDF	NDFD	CP		Milk/ton	Milk Yield
		Tons-65%	%	%DM	%	%DM	%DM	lbs/ton	lbs/acre
94 to 100-d RM									
Dyna-Gro Seed	54T42	28.0	69.5	40.2	57.6	7.1	32.9	3297	32319
Garst	88C97CB/LL	26.9	66.6	40.9	56.8	6.8	34.0	3303	31137
GROWMARK FS	5057VT3	27.7	67.4	41.8	55.7	7.2	31.1	3200	31060
LICA	946 LRR	26.4	67.5	41.6	59.0	6.9	33.0	3345	30914
Mycogen	F2F487	23.1	70.6	40.2	74.5	7.7	32.2	3663	29635
LICA	1900F/RR/HX	26.2	69.2	42.1	55.6	6.8	32.2	3211	29468
NK Seeds	N39Q-CB/LL/RW	25.5	67.7	41.6	54.9	6.8	32.6	3225	28718
GROWMARK FS	4888	24.3	66.2	39.4	57.4	7.1	34.8	3366	28634
Dairyland Seed	HiD.F.-3000-6	25.1	67.4	41.1	55.9	7.3	31.8	3231	28324
LICA	99 S7	25.6	67.1	42.9	56.1	6.7	30.5	3153	28171
DEKALB	DKC50-44	24.2	69.3	40.5	57.5	7.3	33.3	3320	28100
T.A. Seeds	TA497-11	23.1	67.2	39.0	57.0	7.2	35.2	3370	27234
LICA	9707 BT/LL	23.1	64.5	38.1	55.2	7.1	37.3	3358	27163
LICA	EXP 99G8	22.7	68.4	39.4	58.5	7.6	34.5	3384	26890
LICA	UFO105B6	21.5	70.4	41.3	71.9	7.3	30.3	3448	25896
HYTEST SEEDS	HT 46-64 TS	22.7	69.6	41.2	55.9	7.8	31.2	3235	25737
101 to 105-d RM									
Hyland	HL B337	28.4	68.9	40.9	55.9	6.9	33.3	3274	32579
Hyland	HL SR59	28.3	69.0	43.2	57.6	6.6	30.9	3240	32116
Doebler's	552GR	26.9	67.9	38.5	58.3	6.9	36.7	3389	31921
Hyland	HL S067	27.9	68.9	44.1	58.2	7.2	30.0	3239	31654
Garst	8688GT	27.0	68.1	39.7	56.9	6.8	35.5	3338	31561
Garst	87Y26GT	26.7	66.7	38.7	56.8	7.2	36.4	3364	31420
T.A. Seeds	TA557-00F	27.3	66.5	42.6	57.2	7.1	31.4	3265	31208
DEKALB	DKC52-59	26.7	67.7	39.2	56.0	7.3	35.6	3328	31138
LICA	1056 SRR	27.7	68.3	43.4	56.4	6.7	30.1	3151	30586
GROWMARK FS	5288XRR	26.6	66.8	39.5	53.7	7.1	35.2	3278	30558
Hyland	HL SVT50	27.2	70.4	43.5	57.0	7.2	29.7	3209	30539
Dyna-Gro Seed	CXO8002	26.1	67.1	40.1	55.5	7.2	34.4	3304	30132
DEKALB	DKC55-24	25.6	68.6	41.3	55.5	7.3	33.2	3264	29222
LICA	1804F/CB/LL	25.1	69.5	41.1	57.0	6.9	33.2	3296	28947
T.A. Seeds	TA534-11	25.2	67.0	41.0	54.6	7.4	33.1	3265	28881
Mycogen	F2F566	22.7	71.7	41.7	71.3	7.4	31.7	3604	28632
NK Seeds	N48G-CB/LL/RW	24.5	66.7	39.3	56.2	7.1	35.7	3325	28498
DEKALB	DKC54-49	23.1	68.5	41.3	53.6	7.2	32.9	3196	25803

Hybrid	Brand/ Company	Silage		30 hour			Starch	Milk2006	Milk2006
		Yield	Moisture	NDF	NDFD	CP		Milk/ton	Milk Yield
		Tons-65%	%	%DM	%	%DM	%DM	lbs/ton	lbs/acre
106 to 110-d RM									
HYTEST SEEDS	HTS62-01CR	29.7	68.4	42.9	56.2	6.7	31.3	3214	33443
NK Seeds	N64Z-CB/LL/RW	28.9	68.3	41.1	57.2	7.0	32.6	3288	33279
Pioneer	34A89	28.8	67.6	42.6	54.5	7.1	31.3	3174	31986
Doebler's	660BVR	28.5	68.6	42.6	55.4	7.1	30.6	3193	31868
Pioneer	35A34	27.3	66.6	40.4	58.1	7.3	33.4	3336	31850
Pioneer	35F44	25.9	67.9	38.9	57.8	7.2	35.9	3387	30718
T.A. Seeds	TA607-20	27.8	68.6	42.3	52.2	7.0	31.9	3156	30651
Pioneer	33D14	28.0	68.6	43.0	52.6	7.2	30.3	3098	30372
Mycogen	F2F610	24.8	70.9	44.0	71.3	7.2	28.8	3500	30346
Dairyland Seed	HiD.F.-3007-6	26.8	70.6	42.0	57.1	7.3	31.1	3229	30267
BROWN	81Z LFY	26.6	68.1	44.0	56.8	7.0	29.9	3194	29781
Fielder's Choice	NG6720	26.3	66.5	42.2	53.6	7.1	32.2	3201	29506
Mycogen	TMF2W726	27.0	71.1	43.6	55.3	6.9	29.0	3034	28671
T.A. Seeds	TA5750	23.6	68.9	41.7	57.9	7.4	31.7	3310	27329
111 to 115-d RM									
DEKALB	DKC61-69	28.3	68.2	39.4	53.6	7.2	34.9	3271	32389
Pioneer	34B41	28.0	67.7	41.5	57.6	7.2	32.4	3289	32222
DEKALB	DKC67-87	29.1	67.3	43.5	55.4	6.7	30.3	3161	32189
T.A. Seeds	TA688-11	27.7	67.0	42.0	58.7	6.9	32.5	3320	32181
Pioneer	33F88	27.7	69.0	41.2	57.7	7.3	31.9	3283	31777
Mycogen	TMF2Q716	28.1	68.2	43.3	55.9	7.0	31.3	3211	31601
Dyna-Gro Seed	57V40	27.0	68.8	40.7	57.3	7.4	32.7	3313	31323
Dairyland Seed	HiD.F.-3012-6	27.4	70.1	41.8	56.6	7.0	32.3	3258	31274
GROWMARK FS	6277VT3	27.5	68.7	42.5	57.2	7.0	31.0	3243	31255
T.A. Seeds	TA689-00F	28.6	67.8	45.0	54.7	6.8	29.2	3109	31082
Garst	83L65CB/LL/RW	26.4	69.2	40.8	58.8	6.9	33.3	3317	30690
Fielder's Choice	NG6793	25.7	68.2	41.2	55.1	7.1	32.2	3227	29018
Mycogen	F2F725	23.0	73.2	43.6	69.9	7.4	28.2	3404	27459
Dyna-Gro Seed	57P28	23.2	69.9	42.8	55.9	7.7	29.2	3164	25696
LSD 0.10		1.95	1.12	1.37	1.66	0.27	1.68	84	2457
Overall Mean		26.2	68.4	41.5	57.5	7.1	32.4	3279	30081

Table 3. Silage yield (adjusted to 65% moisture), moisture at harvest, quality characteristics, milk/ton, and calculated milk yields of corn hybrids at Southview Farms in Groveland Station, NY in 2008.

Brand/ Company	Hybrid	Silage		30 hour				Milk2006	Milk2006
		Yield	Moisture	NDF	NDFD	CP	Starch	Milk/ton	Milk Yield
		Tons-65%	%	%DM	%	%DM	%DM	lbs/ton	lbs/acre
94 to 100-d RM									
Dairyland Seed	HiD.F.-3000-6	34.6	66.2	38.8	54.5	8.2	33.9	3275	39718
LICA	99 S7	32.6	66.0	39.8	58.3	8.1	32.8	3344	38125
Garst	88C97CB/LL	32.1	64.3	38.8	55.9	7.6	36.3	3323	37284
GROWMARK FS	5057VT3	32.2	67.1	40.3	55.9	7.9	32.9	3265	36782
LICA	1900F/RR/HX	32.4	68.1	40.1	55.7	7.7	33.5	3232	36670
Dyna-Gro Seed	54T42	31.5	68.7	39.7	55.6	8.0	33.4	3260	35944
GROWMARK FS	4888	30.2	64.9	38.2	55.9	8.0	35.4	3321	35170
NK Seeds	N39Q-CB/LL/RW	30.3	65.7	40.0	55.7	7.8	33.8	3269	34650
DEKALB	DKC50-44	29.3	67.2	39.2	58.8	7.5	35.8	3350	34350
T.A. Seeds	TA497-11	27.1	63.8	37.4	57.9	7.9	37.1	3417	32481
LICA	946 LRR	27.8	65.8	41.0	59.5	7.8	33.4	3339	32419
HYTEST SEEDS	HT 46-64 TS	27.9	68.9	40.1	55.3	8.3	33.0	3246	31688
LICA	EXP 99G8	26.7	66.9	39.1	56.8	8.2	34.8	3333	31093
Mycogen	F2F487	24.1	69.1	39.0	73.4	8.6	33.8	3671	30920
LICA	UFO105B6	23.4	67.7	39.2	70.3	8.1	32.7	3579	29259
LICA	9707 BT/LL	21.6	63.4	38.5	57.2	8.1	35.7	3343	25220
101 to 105-d RM									
LICA	1056 SRR	35.9	67.4	42.5	57.4	7.8	29.9	3213	40341
Hyland	HL SVT50	34.0	69.8	41.9	56.7	8.0	30.3	3204	38104
Hyland	HL B337	33.3	69.8	40.8	57.1	8.0	31.8	3262	38034
T.A. Seeds	TA557-00F	32.7	65.6	41.3	56.9	8.5	30.8	3272	37504
DEKALB	DKC54-49	33.0	68.0	40.6	54.6	7.8	33.4	3222	37213
Doebler's	552GR	31.7	66.7	38.4	55.8	7.7	35.4	3305	36739
Hyland	HL S067	32.3	69.3	43.6	57.0	8.1	29.3	3188	36087
NK Seeds	N48G-CB/LL/RW	30.0	68.2	39.1	56.9	8.1	34.8	3327	34883
LICA	1804F/CB/LL	29.9	68.4	39.5	57.7	7.8	33.5	3317	34731
Hyland	HL SR59	31.1	69.3	42.5	55.3	8.0	29.4	3149	34308
Garst	8688GT	29.4	67.5	39.6	56.7	7.6	34.4	3295	33906
DEKALB	DKC55-24	29.8	69.3	39.5	53.1	8.1	34.4	3239	33781
Dyna-Gro Seed	CXO8002	29.7	67.9	39.8	54.9	8.2	33.0	3241	33708
DEKALB	DKC52-59	29.0	67.8	39.3	55.3	7.8	35.4	3282	33358
T.A. Seeds	TA534-11	29.1	66.7	40.1	52.6	8.1	34.2	3231	32895
GROWMARK FS	5288XRR	28.3	67.8	39.7	53.4	8.1	32.9	3205	31737
Mycogen	F2F566	23.8	71.2	41.6	71.6	8.2	31.0	3551	29558
Garst	87Y26GT	25.4	66.9	38.6	56.3	7.9	35.7	3314	29460

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Hybrid	Brand/ Company	Silage		30 hour			Milk2006	Milk2006	
		Yield	Moisture	NDF	NDFD	CP	Starch	Milk/ton	Milk Yield
		Tons-65%	%	%DM	%	%DM	%DM	lbs/ton	lbs/acre
106 to 110-d RM									
T.A. Seeds	TA607-20	35.2	69.2	41.4	53.9	7.9	31.8	3179	39203
HYTEST SEEDS	HTS62-01CR	34.9	69.9	42.8	56.6	8.0	29.6	3192	39000
Pioneer	34A89	33.7	69.8	41.7	55.4	8.2	30.8	3173	37391
Mycogen	TMF2W726	34.6	71.7	42.8	55.7	8.1	28.4	3080	37286
Doebler's	660BVR	33.7	70.7	42.6	55.2	8.1	29.8	3152	37192
NK Seeds	N64Z-CB/LL/RW	32.9	69.4	41.4	56.2	8.0	31.2	3216	37032
Fielder's Choice	NG6720	31.8	67.9	41.5	53.4	7.9	32.4	3146	35042
Dairyland Seed	HiD.F.-3007-6	30.5	72.2	41.8	56.6	8.8	29.7	3210	34296
Mycogen	F2F610	27.8	71.7	43.6	72.6	8.1	28.8	3525	34271
Pioneer	33D14	31.9	69.1	43.9	53.2	7.8	28.7	3055	34106
Pioneer	35A34	29.4	68.3	40.1	56.6	8.3	33.0	3271	33636
BROWN	81Z LFY	30.2	69.4	43.0	55.8	8.3	29.8	3168	33463
Pioneer	35F44	27.5	68.6	39.2	58.0	8.1	34.4	3338	32164
T.A. Seeds	TA5750	26.6	69.9	41.2	57.6	8.6	30.5	3250	30283
111 to 115-d RM									
DEKALB	DKC61-69	33.3	69.7	39.8	56.4	8.4	32.3	3273	38092
GROWMARK FS	6277VT3	33.6	71.3	42.5	55.6	8.3	29.7	3181	37445
Fielder's Choice	NG6793	33.0	69.5	41.0	55.5	8.3	30.8	3210	37109
Pioneer	33F88	33.0	71.0	42.0	58.1	8.1	29.6	3192	36907
DEKALB	DKC67-87	33.7	69.1	43.9	54.8	8.2	27.5	3057	36106
Dyna-Gro Seed	57V40	31.9	70.5	42.1	55.5	8.2	30.6	3191	35568
Garst	83L65CB/LL/RW	31.3	71.0	41.1	57.4	7.8	31.7	3241	35459
T.A. Seeds	TA689-00F	33.1	70.8	45.6	55.3	8.2	26.6	3063	35444
Mycogen	TMF2Q716	32.0	70.0	43.8	56.1	7.9	29.5	3143	35203
Dairyland Seed	HiD.F.-3012-6	31.0	71.6	43.3	57.2	7.9	29.1	3165	34363
T.A. Seeds	TA688-11	28.9	67.4	41.9	58.3	7.8	31.6	3264	33037
Mycogen	F2F725	27.0	74.0	43.3	70.3	8.4	27.3	3417	32281
Pioneer	34B41	27.5	69.4	41.3	54.9	8.3	31.1	3180	30625
Dyna-Gro Seed	57P28	25.9	71.2	44.0	55.2	8.2	26.8	3028	27475
LSD 0.10		2.77	1.31	1.32	1.10	0.25	1.46	58	3414
Overall Mean		30.4	68.6	41.0	57.3	8.1	32.0	3257	34639

Table 4. Silage yield (adjusted to 65% moisture), moisture at harvest, quality characteristics, milk/ton, and calculated milk yields of corn hybrids at Ron Robbins's farm in Sackets Harbor, NY in 2008.

Brand/ Company	Hybrid	Silage		30 hour			Milk2006	Milk2006	
		Yield Tons-65%	Moisture %	NDF %DM	NDFD %	CP %DM	Starch %DM	Milk/ton lbs/ton	Milk Yield lbs/acre
80 to 89-d RM									
Hyland	HL SR35	27.4	66.0	43.2	55.3	7.3	31.7	3186	30553
T.A. Seeds	TA240-00	26.1	60.8	40.2	55.4	7.0	36.2	3292	30086
T.A. Seeds	TA290-19	25.9	60.6	39.6	53.8	7.1	37.0	3293	29939
DEKALB	DKC38-89	25.1	65.0	38.9	56.9	7.2	36.4	3344	29404
Hyland	HL SR22	25.4	63.3	41.5	55.7	8.0	31.8	3248	28881
Mycogen	F2F297/F27311	22.2	64.2	39.0	68.4	7.3	35.8	3608	28054
Dairyland Seed	HiD.F.-3085-6	24.4	65.2	39.8	54.6	7.5	34.4	3274	27976
Fielder's Choice	NG6321	23.8	66.2	40.1	53.1	7.8	31.7	3144	26174
90 to 95-d RM									
Hyland	HL B294	31.5	69.1	41.6	59.2	7.1	33.2	3312	36551
LICA	99 S7	28.6	67.6	42.4	56.3	7.2	31.7	3252	32524
Mycogen	TMF2L416	27.8	66.3	40.8	58.6	7.6	33.2	3336	32479
Mycogen	TMF2N422	28.2	65.2	42.8	56.4	7.1	32.7	3241	31940
Pioneer	38H08	27.8	64.1	40.5	55.2	6.6	35.8	3254	31679
LICA	1900F/RR/HX	28.8	70.0	42.9	54.4	6.8	31.8	3143	31656
LICA	946 LRR	27.3	65.9	43.4	57.3	6.9	32.5	3245	31011
Doebler's	467BVR	27.5	68.9	43.5	54.9	6.9	31.9	3182	30687
Hyland	HL SR42	25.5	67.0	40.6	61.0	7.5	33.9	3399	30313
Pioneer	38N87	26.0	66.1	39.3	55.0	7.5	35.2	3305	30099
Hyland	HL S047	26.2	65.6	42.1	57.1	7.4	32.8	3272	29963
HYTEST SEEDS	TNT-92RR	26.0	67.5	43.1	57.9	7.3	31.7	3253	29616
Dyna-Gro Seed	53K69	25.5	68.1	40.4	57.1	6.8	36.1	3309	29557
DEKALB	DKC41-60	25.6	67.5	40.4	55.9	7.1	35.2	3274	29361
Garst	88H48GT	26.0	66.5	41.4	52.7	6.7	34.5	3188	29054
GROWMARK FS	4282VT3	24.9	69.1	41.4	57.2	6.7	34.7	3282	28578
NK Seeds	N27B-CB/LL/RW	24.6	65.1	39.6	55.4	7.5	35.4	3316	28504
DEKALB	DKC45-79	25.0	67.9	41.7	56.1	7.1	33.3	3227	28242
Doebler's	377BVR	24.0	66.7	40.2	56.9	7.3	35.3	3305	27732
T.A. Seeds	TA370-00	24.2	65.6	39.7	54.7	7.2	36.1	3276	27727
HYTEST SEEDS	HT7220 BT/RR	24.6	67.5	41.1	52.4	7.4	33.9	3199	27566
LICA	UFO 105B6	22.4	72.1	42.2	69.0	7.4	30.4	3447	27036
T.A. Seeds	TA310-00F	23.8	65.0	43.2	56.8	7.2	32.2	3226	26876
LICA	9707 BT/LL	23.5	66.4	41.0	55.5	7.3	33.9	3255	26830
96 to 100-d RM									
T.A. Seeds	TA476-11	28.1	66.8	41.5	52.8	7.1	34.1	3200	31487
Fielder's Choice	NG6520	27.1	68.5	40.6	54.7	7.2	34.7	3254	30816
Pioneer	36Y26	26.7	69.0	41.1	55.0	7.6	33.2	3234	30173
T.A. Seeds	TA489-00F	26.2	67.0	42.7	57.9	7.2	32.5	3276	29985
Pioneer	38H72	25.1	67.2	39.1	55.9	7.3	35.4	3320	29230
DEKALB	DKC50-44	25.2	70.0	42.0	55.0	7.0	33.4	3208	28306
LSD 0.10		2.25	1.00	1.37	1.36	0.23	1.59	68	2820
Overall Mean		25.9	66.6	41.2	56.5	7.2	33.8	3273	29648

Table 5. Silage yield (adjusted to 65% moisture), moisture at harvest, quality characteristics, milk/ton, and calculated milk yields of corn hybrids at John Greenwood's farm in Madrid, NY in 2008.

Brand/ Company	Hybrid	Silage		30 hour				Milk2006	Milk2006
		Yield	Moisture	NDF	NDFD	CP	Starch	Milk/ton	Milk Yield
		Tons-65%	%	%DM	%	%DM	%DM	lbs/ton	lbs/acre
80 to 89-d RM									
T.A. Seeds	TA290-19	28.6	62.7	37.9	53.9	7.8	36.8	3328	33286
T.A. Seeds	TA240-00	27.6	62.1	37.9	52.9	7.7	37.0	3308	31970
Hyland	HL SR35	27.0	65.1	40.2	55.4	7.9	33.5	3260	30749
DEKALB	DKC38-89	24.3	64.5	38.3	53.1	7.7	35.7	3260	27696
Mycogen	F2F297/F27311	21.6	64.5	37.2	67.4	8.0	35.5	3584	27083
Hyland	HL SR22	24.6	62.7	41.5	53.0	8.6	29.7	3127	26921
Dairyland Seed	HiD.F.-3085-6	23.6	63.3	38.9	52.7	8.1	34.1	3217	26544
Fielder's Choice	NG6321	22.0	63.8	41.1	49.4	8.6	28.8	2942	22675
90 to 95-d RM									
Hyland	HL B294	31.0	67.9	40.0	55.3	7.4	34.7	3261	35505
LICA	946 LRR	30.7	66.0	40.3	56.7	7.6	33.7	3286	35304
LICA	1900F/RR/HX	30.0	67.6	39.3	55.6	7.1	35.6	3268	34347
Mycogen	TMF2L416	28.2	66.2	39.7	56.7	8.1	33.2	3304	32662
Mycogen	TMF2N422	27.2	66.2	39.4	58.4	7.8	34.6	3367	32033
DEKALB	DKC45-79	28.3	66.9	39.2	53.2	7.5	34.9	3219	31915
LICA	99 S7	27.9	67.5	39.5	53.6	7.7	34.1	3246	31688
Hyland	HL S047	27.4	66.1	40.4	57.3	8.0	33.1	3285	31494
LICA	UFO 105B6	25.0	69.4	39.8	69.0	7.7	32.6	3525	30785
GROWMARK FS	4282VT3	26.4	66.9	39.0	56.5	7.3	35.8	3316	30637
Garst	88H48GT	26.3	64.9	38.4	54.8	7.3	36.7	3308	30452
HYTEST SEEDS	TNT-92RR	25.7	67.3	39.8	57.4	7.7	34.8	3336	29956
T.A. Seeds	TA370-00	26.0	65.7	37.3	51.5	7.7	37.6	3263	29737
NK Seeds	N27B-CB/LL/RW	26.2	64.9	39.6	52.8	7.9	34.0	3229	29597
Doebler's	467BVR	26.0	67.8	41.3	52.9	7.6	33.0	3172	28859
HYTEST SEEDS	HT7220 BT/RR	25.0	65.4	39.5	53.0	7.9	34.6	3253	28471
T.A. Seeds	TA310-00F	24.5	65.6	40.9	56.7	8.2	32.3	3267	27970
Hyland	HL SR42	24.0	67.7	39.1	57.9	8.1	33.6	3317	27894
Dyna-Gro Seed	53K69	24.7	68.1	40.5	52.7	7.5	33.7	3159	27393
Pioneer	38H08	24.9	63.0	41.2	52.1	7.8	31.7	3112	27158
Doebler's	377BVR	23.5	66.3	39.2	54.3	8.1	33.8	3240	26654
LICA	9707 BT/LL	22.6	64.2	36.5	55.1	7.9	38.0	3362	26508
DEKALB	DKC41-60	23.2	66.4	41.4	52.8	8.0	31.3	3130	25355
Pioneer	38N87	22.8	64.6	38.8	51.8	8.7	32.1	3162	25213
96 to 100-d RM									
DEKALB	DKC50-44	29.7	67.3	38.4	56.9	7.4	36.4	3350	34851
T.A. Seeds	TA489-00F	28.8	66.6	41.4	55.9	7.9	32.4	3234	32697
Pioneer	36Y26	26.7	66.3	37.6	56.0	8.3	35.6	3345	31272
Fielder's Choice	NG6520	27.0	67.7	39.1	53.6	7.8	35.1	3235	30561
T.A. Seeds	TA476-11	27.6	65.0	41.4	51.4	7.5	33.6	3140	30286
Pioneer	38H72	23.0	65.7	37.6	54.1	8.1	35.7	3306	26640
LSD 0.10		3.47	1.10	1.58	1.66	0.28	2.16	85	4132
Overall Mean		26.0	65.8	39.4	55.1	7.8	34.2	3264	29758

