

2016 Corn Silage Field Crop Trials Results



Minnesota Agricultural Experiment Station and the College of Food, Agricultural and Natural Resource Sciences

The Minnesota Hybrid Corn Silage Evaluation Program evaluates the silage potential of corn hybrids in Minnesota. The goal of the program is to provide unbiased forage yield and forage quality information for educational and marketing programs.

The program is financed in part by entry fees from private seed companies that choose to enter hybrids for testing, which are listed below. Results are presented from the two corn silage performance trials, Southeast (SE) located in Rochester; and Central (CE) located in Hutchinson. Entries from the southeast and central sites are also evaluated at Waseca in trials designated as Waseca SE and Waseca CE. Trials at each location were split into early and late corn hybrid maturities, to facilitate harvesting the corn silage at 65% whole plant moisture.

Test Procedures

Plots were established at each test site in a randomized complete block design with four replications.

Planting and harvesting dates were:

Location	Planting Date	Early Harvest	Late Harvest
Rochester SE	April 26	Sept. 9	Sept. 20
Waseca SE	April 27	Sept. 2	Sept. 13
Hutchinson CE	May 4	Sept. 14	Sept. 14
Waseca CE	April 27	Sept. 1	Sept. 12

Hybrid entries were planted at 35,000 seeds per acre with 30-inch row spacing. Plant nutrients as manure or inorganic fertilizer and herbicides to control weeds were applied according to University of Minnesota recommendations.

Plots were harvested and whole-plant herbage sampled for determination of

dry matter content and forage quality. Test sites were normally harvested when the average whole-plant moisture across entries was estimated to be 65%.

Results Provided

Tables 1-8 summarize hybrid yield and forage quality results from Rochester, Hutchinson and Waseca. Moisture content, whole-plant dry matter (DM) yield, and silage yield at harvest moisture are listed. Hybrids are ranked in descending order of milk yield per acre (Milk Yield, lb. /acre). Genetic trait information is supplied by companies entered in the hybrid corn silage performance trials.

Whole-plant forage quality traits tested include crude protein (CP), neutral detergent fiber (NDF), 48-hour neutral detergent fiber digestibility (NDFD) and starch concentration. With the exception of NDFD, all forage qual-

Companies Participating in 2016 Hybrid Corn Silage Performance Trials

AgriGold Hybrids	www.agrigold.com
Anderson Seeds Channel	Kelsey Anderson - kelsey.anderson528@gmail.com www.channel.com
Dairyland Seed	www.dairylandseed.com
Dekalb	www.dekalb.com
Gold Country Seed	www.goldcountryseed.com
Golden Harvest	www.syngenta-us.com/corn/golden-harvest
Latham	www.lathamseeds.com
Legacy Seeds, Inc.	www.legacyseeds.com
Masters Choice	www.seedcorn.com
NuTech Seed LLC	www.nutechseed.com
Producers Hybrids	www.producershybrids.com
Tracy Seeds	www.tracyseeds.com
Viking Seed	www.alseed.com
Wensman Seed Company	www.wensmanseed.com



ity traits are expressed as a percent of dry matter. NDFD is expressed as a percent of NDF.

Milk production potential per ton (lb. milk/ ton forage) and per acre (lb. milk /acre) of forage was calculated using the MILK2006 spreadsheet developed by the University of Wisconsin. MILK2006 approximates animal performance based on a standard cow weight and milk production level (1,350 lb. body weight and 90 lb. / day at 3.8% fat).

Field values for moisture and DM yield at harvest; laboratory values for CP, NDF, NDFD, starch, oil and ash concentration; and book values for NDFCP (1.3%) were used for spreadsheet calculations. For MILK2006 predictions, we assumed that kernel processing occurred. Milk production (lb. milk / ton and lb. milk / acre) val-

ues can be used as a quick reference for relative comparison of hybrids within test locations.

How to Use Results

NDF is a negative indicator of forage intake potential; higher NDF concentration generally implies lower intake potential. NDFD estimates digestibility of the fiber fraction. Starch concentration is positively associated with digestibility because of its high digestibility. Relatively higher NDFD and / or starch concentrations generally imply greater animal performance potential. Milk yield per acre represents the combined effects of silage yield and quality.

Corn hybrids differed in yield, forage quality and milk production potential at all sites. Means and least significant difference (LSD) values at the 10% probability level are shown for

each parameter. Where the difference between two hybrids for a particular yield or quality trait is greater than the LSD value, there is a 90% probability that there is a statistically significant difference between the two hybrids for that parameter (i.e., moisture, yield, quality concentration or milk production). A difference less than the LSD value probably is due to environmental factors.

Figures 1-4 summarize the relationship between silage dry matter yield and milk per ton for test sites at Rochester, Waseca and Hutchinson. The figures also highlight those entries at each site that have a combination of high silage dry matter yields and milk production per ton.

Project Leaders

Craig Sheaffer, M. Scott Wells, Thomas Hoverstad and Joshua Larson.

Table 1. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for SE early corn hybrids planted at Rochester, MN (Olmsted County) in 2016.

No.	Company	Entry	Traits ¹	RM	Moist, %	Yield, Tons/Acre ²		Quality (concentration), % ³				Milk Yield ⁴	
						DM	Silage	CP	NDF	NDFD	Starch	lb/ton	lb/acre
27	Viking	O.51-04GS	—	104	63.0	13.7	36.9	5.9	41.5	40.7	44.2	2,509	34,468
13	DEKALB	DKC51-38RIB	GLY,Bt,LL,CRW	101	64.0	12.0	33.5	5.7	40.3	42.7	44.0	2,572	30,915
21	LEGACY SEEDS	L-6334 3111	GLY, BT, LL, CRW	107	65.5	12.4	36.0	6.1	39.9	39.2	44.7	2,483	30,774
23	Masters Choice	MCT 5454	GLY,Bt,LL,CRW	104	61.5	12.7	33.0	5.0	47.6	43.7	37.6	2,366	30,010
11	DAIRYLAND SEED	HiDF-3605RA	GLY,Bt,LL,CRW	105	67.2	12.5	38.5	6.2	45.1	39.6	38.2	2,340	29,322
8	DAIRYLAND SEED	HiDF-3702-9	GLY,Bt,LL,CRW	102	65.5	12.1	35.0	5.7	40.7	38.6	45.2	2,393	29,238
7	Channel	207-27STXRIB Brand Blend	GLY,Bt,LL,CRW	107	67.2	11.5	35.2	5.5	42.7	41.7	41.0	2,500	28,902
12	DAIRYLAND SEED	Exp-10707	GLY,Bt,LL,CRW	107	65.5	12.5	36.8	5.5	45.0	37.5	39.7	2,259	28,757
19	LEGACY SEEDS	L-5350 3122	GLY, BT, LL, CRW	104	64.2	12.1	34.1	5.7	43.3	39.5	41.6	2,371	28,596
26	NuTech\G2 Genetics	5H-806	GLY,BT,LL	106	67.5	11.7	36.1	6.1	42.1	38.9	41.7	2,412	28,220
1	AgriGold	A6267STXRIB	GLY,Bt,LL,CRW	102	63.2	11.4	31.1	5.0	44.2	42.1	41.0	2,444	27,736
25	NuTech\G2 Genetics	5F-906	GLY,BT,LL	106	68.2	12.7	39.6	7.0	46.5	37.1	38.1	2,179	27,615
5	AgriGold	A6416STXRIB	GLY,Bt,LL,CRW	107	65.0	12.5	36.0	6.4	45.9	37.0	39.2	2,184	27,376
22	Masters Choice	MCT 5371	GLY	103	63.0	12.0	32.4	5.9	45.5	38.8	40.1	2,264	27,029
18	Latham	LH 5715	—	107	64.7	11.3	32.2	5.6	46.1	41.8	38.4	2,385	26,996
3	AgriGold	A6358VT3PRIB	GLY,Bt,CRW	105	64.2	12.0	33.9	5.5	43.6	36.2	42.4	2,207	26,472
16	Gold Country Seed	HDS76-76RSS	GLY,Bt,LL,CRW	107	65.2	11.7	33.9	5.9	46.6	39.0	37.9	2,238	26,081
10	DAIRYLAND SEED	HiDF-3103-9	GLY,Bt,LL,CRW	103	66.7	11.7	35.1	5.1	49.2	39.8	35.2	2,193	25,880
9	DAIRYLAND SEED	DS-9403	GLY,Bt,LL,CRW	103	63.2	11.0	29.9	6.0	46.8	40.7	37.6	2,337	25,774
17	Golden Harvest	G07F23	GLY, BL,BT,LL,CRW	107	66.5	11.7	35.0	6.0	46.9	35.2	38.4	2,094	25,619
2	AgriGold	A6346STX	GLY,Bt,LL,CRW	104	65.2	10.7	30.9	5.7	44.9	40.6	39.0	2,358	25,432
4	AgriGold	A6413STXRIB	GLY,Bt,LL,CRW	107	68.7	11.0	35.4	5.7	45.4	38.3	40.0	2,266	24,971
20	LEGACY SEEDS	L-5810 GT	GLY, BT, LL, CRW	106	66.5	11.4	34.0	5.8	46.7	35.6	38.5	2,075	23,657
6	Channel	206-30STXRIB Brand Blend	GLY,Bt,LL,CRW	106	66.7	11.1	33.8	5.8	45.3	35.9	39.6	2,112	23,592
24	Masters Choice	MCT 527	GLY	105	64.5	10.3	29.1	5.9	49.5	40.3	36.0	2,176	22,467
Mean					65.3	11.8	34.3	5.8	44.8	39.3	40.0	2,311	27,438
LSD (0.10)					4.1	9.7	10.1	12.8	10.3	10.6	12.8	9.6	15.1
C.V.					1.0	0.5	1.3	0.3	2.2	2.0	2.5	99.1	1,817

¹Bt, CRW, GLY, LL and Lf traits contain genes for European corn borer tolerance, corn rootworm tolerance, glyphosate herbicide tolerance, Liberty (glufosinate-ammonium) herbicide tolerance and leafy trait, respectively.

²DM yield is whole-plant corn yield at 100% dry matter; Silage yield is whole-plant corn yield at harvest moisture.

³Quality concentration expressed as a % of DM, except NDFD which is expressed as a % of NDF. Refer to Results Provided text for additional information.

⁴Milk production was estimated using spreadsheet MILK2006 developed at the University of Wisconsin. Refer to Results Provided text for additional information.

Table 2. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for SE late corn hybrids planted at Rochester, MN (Olmsted County) in 2016.

No.	Company	Entry	Traits ¹	RM	Moist, %	Yield, Tons/Acre ²		Quality (concentration), % ³				Milk Yield ⁴	
						DM	Silage	CP	NDF	NDFD	Starch	lb/Ton	lb/Acre
18	NuTech\G2 Genetics	5F-308	GLY,BT,LL	108	62.0	13.0	34.4	6.7	39.1	37.9	46.7	2,413	31,427
10	Golden Harvest	G09E98	GLY,Bt,LL,CRW,	109	59.8	12.5	31.5	6.2	37.6	38.7	47.1	2,478	31,143
19	NuTech\G2 Genetics	5F-709	GLY,BT,LL	109	60.3	13.0	32.5	6.1	39.8	37.2	45.7	2,375	30,951
8	DEKALB	DKC58-06RIB	GLY,Bt,LL,CRW	108	56.8	12.7	29.4	5.4	40.6	39.9	45.9	2,416	30,604
1	AgriGold	A6441STXRIB	GLY,Bt,LL,CRW	108	60.8	12.3	31.2	6.0	39.3	39.2	47.1	2,485	30,578
12	Golden Harvest	G10C45	GLY,BT,LL	110	55.3	13.0	28.9	5.7	40.2	37.6	46.2	2,361	30,547
13	Golden Harvest	G11F16	GLY, BL,BT,LL,CRW	111	60.3	13.0	32.8	6.0	43.7	38.6	42.2	2,339	30,475
11	Golden Harvest	G10T63	GLY,Bt,LL,CRW,	110	62.0	13.2	34.7	6.4	40.7	36.8	46.1	2,324	30,426
22	Producers Hybrids	6878STXRIB	GLY,Bt,LL,CRW	108	61.0	12.5	32.0	6.2	38.5	37.6	47.6	2,413	30,242
21	NuTech\G2 Genetics	X5Z-1001	GLY,BT,LL	110	61.3	12.5	32.1	6.0	42.6	38.4	42.8	2,356	29,631
23	Producers Hybrids	6968STXRIB	GLY,Bt,LL,CRW	109	61.5	11.6	30.1	5.9	36.7	38.9	49.3	2,537	29,357
14	Latham	LH 6175	—	111	59.3	12.7	31.2	5.6	41.9	36.8	43.6	2,279	29,140
24	Tracy Seeds	T108-26 3111 VIP	GLY,Bt,LL,CRW	108	57.3	12.1	28.3	5.7	42.4	37.5	44.4	2,317	29,073
16	Latham	LH Ex114	GLY,Bt,LL,CRW,	114	63.5	12.4	34.0	6.0	41.0	37.2	44.1	2,346	28,967
20	NuTech\G2 Genetics	5F-510	GLY,BT,LL	110	65.5	12.3	35.7	7.0	38.7	36.1	46.2	2,357	28,875
6	DAIRYLAND SEED	DS-9508RA	GLY,Bt,LL,CRW	108	64.3	11.8	33.0	5.8	39.2	36.7	45.7	2,350	27,832
25	Viking	O.73-08GS	—	108	62.5	12.1	32.2	5.8	43.2	37.4	42.6	2,288	27,574
9	Gold Country Seed	108-91RSS	GLY,Bt,LL,CRW	108	59.0	11.5	28.2	5.4	41.4	39.6	44.3	2,394	27,513
4	AgriGold	A6462STXRIB	GLY,Bt,LL,CRW	110	61.5	11.6	30.0	5.4	38.8	35.9	47.0	2,366	27,438
7	DAIRYLAND SEED	HiDF-3510SSX	GLY,Bt,LL,CRW	110	62.3	12.0	31.5	5.4	45.0	38.0	40.7	2,263	26,997
2	AgriGold	A6442STXRIB	GLY,Bt,LL,CRW	109	61.3	11.6	30.1	6.3	42.8	38.0	43.2	2,300	26,663
27	WENSMAN	W91073STXRIB	GLY,Bt,LL,CRW	107	61.2	11.5	29.8	6.0	42.9	38.1	41.1	2,263	26,188
17	Masters Choice	MCT 6153	GLY,Bt,LL,CRW	111	61.8	11.1	29.1	5.7	43.5	38.7	41.5	2,321	25,599
3	AgriGold	A6458VT3PRIB	GLY,Bt,CRW	110	62.3	11.3	30.2	6.8	43.0	36.4	42.3	2,215	25,153
5	DAIRYLAND SEED	HiDF-3808RA	GLY,Bt,LL,CRW	108	62.5	11.4	30.3	6.0	45.2	38.0	39.9	2,210	25,100
15	Latham	LH Ex114RRLFY	—	114	65.5	11.7	34.1	6.1	49.6	39.3	32.4	2,094	24,426
26	WENSMAN	W7473VT3PRIB	GLY,Bt,CRW	109	65.5	10.1	29.2	6.6	46.7	37.5	38.4	2,155	21,806
Mean					61.3	12.1	31.3	6.0	41.6	37.9	43.9	2,334	28,279
LSD (0.10)					5.1	11.4	11.6	10.7	10.9	5.2	12.1	7.2	15.3
C.V.					1.0	0.6	1.7	0.3	1.9	0.9	2.1	75.1	1,960

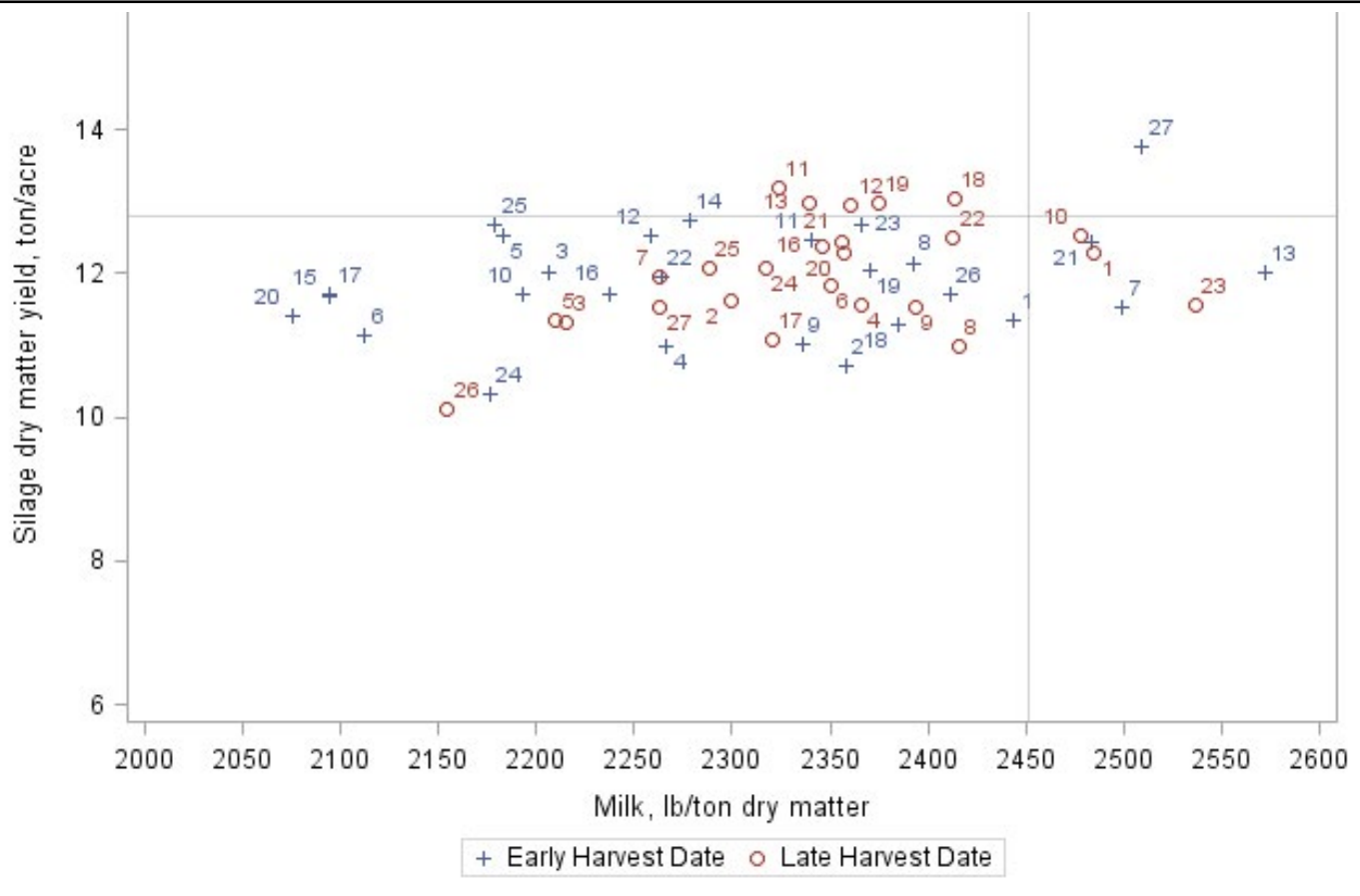
¹Bt, CRW, GLY, LL and Lf traits contain genes for European corn borer tolerance, corn rootworm tolerance, glyphosate herbicide tolerance, Liberty (glufosinate-ammonium) herbicide tolerance and leafy trait, respectively.

²DM yield is whole-plant corn yield at 100% dry matter; Silage yield is whole-plant corn yield at harvest moisture.

³Quality concentration expressed as a % of DM, except NDFD which is expressed as a % of NDF. Refer to Results Provided text for additional information.

⁴Milk production was estimated using spreadsheet MILK2006 developed at the University of Wisconsin. Refer to Results Provided text for additional information.

Figure 1. Relationship between silage dry matter yield and milk per ton for SE early and late corn hybrids planted at Rochester, MN (Olmsted County) in 2016.



1. Relationship between silage dry matter yield and milk per ton at Rochester (Olmsted County) in 2016. Silage dry matter yield values above the dashed line were among the highest in this trial at the 10% probability level.
2. Milk per ton values to the right of the dashed line were among the highest in this trial at the 10% probability level.
3. Entry numbers are shown for hybrids with silage dry matter yield and milk per ton values that were among the highest for both categories.

Table 3. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for SE early corn hybrids planted at Waseca, MN (Waseca County) in 2016.

No.	Company	Entry	Traits ¹	RM	Moist, %	Yield, Tons/Acre ²		Quality (concentration), % ³				Milk Yield ⁴	
						DM	Silage	CP	NDF	NDFD	Starch	lb/Ton	lb/Acre
1	AgriGold	A6267STXRIB	GLY,Bt,LL,CRW	102	64.5	10.4	29.0	4.7	41.8	40.6	42.3	2,266	25,513
5	AgriGold	A6416STXRIB	GLY,Bt,LL,CRW	107	66.5	10.8	32.1	5.2	40.9	40.2	43.9	2,313	25,139
4	AgriGold	A6413STXRIB	GLY,Bt,LL,CRW	107	66.7	10.5	31.3	5.2	40.2	41.7	43.0	2,385	25,010
17	Golden Harvest	G07F23	GLY, BL,BT,LL,CRW	107	65.7	10.9	31.9	4.7	42.2	41.0	42.1	2,277	24,922
12	DAIRYLAND SEED	Exp-10707	GLY,Bt,LL,CRW	107	64.7	10.6	29.8	4.6	41.9	41.1	42.0	2,324	24,617
10	DAIRYLAND SEED	HiDF-3103-9	GLY,Bt,LL,CRW	103	64.0	10.2	28.4	4.5	40.2	41.1	44.2	2,365	24,139
20	LEGACY SEEDS	L-5810 GT	GLY, BT, LL, CRW	106	65.2	11.0	25.2	5.2	41.3	41.7	42.2	2,323	23,969
9	DAIRYLAND SEED	DS-9403	GLY,Bt,LL,CRW	103	63.2	9.9	25.1	4.9	39.3	40.1	45.3	2,359	23,782
7	Channel	207-27STXRIB Brand Blend	GLY,Bt,LL,CRW	107	66.7	9.9	29.6	4.8	38.9	40.8	45.8	2,373	23,601
23	Masters Choice	MCT 5454	GLY,Bt,LL,CRW	104	64.2	10.1	28.3	5.5	40.0	40.4	44.8	2,314	23,325
16	Gold Country Seed	HDS76-76RSS	GLY,Bt,LL,CRW	107	64.5	10.5	29.5	4.6	45.0	41.5	38.1	2,222	23,225
21	LEGACY SEEDS	L-6334 3111	GLY, BT, LL, CRW	107	66.0	10.3	30.5	5.2	42.5	40.1	40.8	2,236	23,031
19	LEGACY SEEDS	L-5350 3122	GLY, BT, LL, CRW	104	65.0	10.0	28.4	5.0	43.1	41.9	40.4	2,281	22,890
11	DAIRYLAND SEED	HiDF-3605RA	GLY,Bt,LL,CRW	105	66.2	10.3	30.1	4.2	43.8	40.2	39.9	2,215	22,699
2	AgriGold	A6346STX	GLY,Bt,LL,CRW	104	64.7	9.8	27.7	4.8	41.2	40.8	43.1	2,287	22,351
26	NuTech\G2 Genetics	5H-806	GLY,BT,LL	106	67.5	9.8	30.1	5.3	41.9	40.9	41.5	2,285	22,349
3	AgriGold	A6358VT3PRIB	GLY,Bt,CRW	105	65.0	9.2	26.2	4.7	40.0	41.6	44.3	2,371	21,898
6	Channel	206-30STXRIB Brand Blend	GLY,Bt,LL,CRW	106	66.0	9.7	28.4	5.5	42.9	41.4	40.2	2,248	21,809
18	Latham	LH 5715	—	107	64.0	9.3	25.8	4.3	41.1	41.0	43.2	2,317	21,607
27	Viking	O.51-04GS	—	104	64.3	9.2	25.4	4.0	42.6	42.0	41.2	2,303	21,284
25	NuTech\G2 Genetics	5F-906	GLY,BT,LL	106	68.7	9.3	29.7	5.2	44.0	40.5	40.3	2,194	20,436
22	Masters Choice	MCT 5371	GLY	103	64.2	8.7	24.7	4.3	42.7	43.3	41.4	2,322	20,286
8	DAIRYLAND SEED	HiDF-3702-9	GLY,Bt,LL,CRW	102	66.2	9.5	27.9	4.3	45.4	41.0	38.0	2,137	20,257
24	Masters Choice	MCT 527	GLY	105	65.7	9.1	26.7	4.8	45.2	41.7	38.1	2,187	20,010
13	DEKALB	DKC51-38RIB	GLY,Bt,LL,CRW	101	66.7	8.3	25.3	5.0	41.0	41.9	42.8	2,315	19,812
Mean					65.4	9.9	28.3	4.8	42.0	41.1	42.0	2,289	22,707
LSD (0.10)					0.9	0.6	1.6	0.3	1.6	0.9	1.9	54.5	1,731
C.V.					3.2	13.5	13.3	12.7	7.8	4.2	9.5	5.0	15.0

¹Bt, CRW, GLY, LL and Lf traits contain genes for European corn borer tolerance, corn rootworm tolerance, glyphosate herbicide tolerance, Liberty (glufosinate-ammonium) herbicide tolerance and leafy trait, respectively.

²DM yield is whole-plant corn yield at 100% dry matter; Silage yield is whole-plant corn yield at harvest moisture.

³Quality concentration expressed as a % of DM, except NDFD which is expressed as a % of NDF. Refer to Results Provided text for additional information.

⁴Milk production was estimated using spreadsheet MILK2006 developed at the University of Wisconsin. Refer to Results Provided text for additional information.

Table 4. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for SE late corn hybrids planted at Waseca, MN (Waseca County) in 2016.

No.	Company	Entry	Traits ¹	RM	Moist, %	Yield, Tons/Acre ²		Quality (concentration), % ³				Milk Yield ⁴	
						DM	Silage	CP	NDF	NDFD	Starch	lb/Ton	lb/Acre
11	Golden Harvest	G10T63	GLY,Bt,LL,CRW,	110	55.3	13.4	30.0	4.3	43.5	39.1	43.0	2,296	30,728
20	NuTech\G2 Genetics	5F-510	GLY,BT,LL	110	56.8	13.0	29.7	5.8	37.3	36.3	50.6	2,381	30,663
12	Golden Harvest	G10C45	GLY,BT,LL	110	54.5	12.0	26.2	4.3	44.5	41.1	41.7	2,306	27,817
7	DAIRYLAND SEED	HiDF-3510SSX	GLY,Bt,LL,CRW	110	60.5	12.5	31.2	4.2	44.8	37.7	41.2	2,214	27,720
1	AgriGold	A6441STXRIB	GLY,Bt,LL,CRW	108	55.5	12.1	27.4	5.0	44.0	39.3	44.5	2,281	27,508
6	DAIRYLAND SEED	DS-9508RA	GLY,Bt,LL,CRW	108	56.0	12.0	26.9	4.7	40.6	37.8	44.4	2,314	27,476
18	NuTech\G2 Genetics	5F-308	GLY,BT,LL	108	62.3	12.1	31.8	5.5	44.0	38.6	41.4	2,255	27,289
2	AgriGold	A6442STXRIB	GLY,Bt,LL,CRW	109	53.8	12.3	26.6	4.6	44.3	37.7	42.6	2,216	27,196
13	Golden Harvest	G11F16	GLY, BL,BT,LL,CRW	111	59.5	11.9	29.1	5.0	48.2	39.6	38.6	2,208	26,356
24	Tracy Seeds	T108-26 3111 VIP	GLY,Bt,LL,CRW	108	55.5	11.8	26.6	4.4	47.6	38.6	40.3	2,203	25,897
25	Viking	O.73-08GS	—	108	61.8	10.8	28.3	4.4	41.4	39.6	44.0	2,376	25,701
8	DEKALB	DKC58-06RIB	GLY,Bt,LL,CRW	108	55.0	10.7	23.7	3.8	42.5	41.1	44.6	2,382	25,489
22	Producers Hybrids	6878STXRIB	GLY,Bt,LL,CRW	108	56.8	11.3	26.1	4.7	46.1	39.2	40.7	2,210	25,199
15	Latham	LH Ex114RRLFY	—	114	61.3	12.8	33.1	4.8	52.3	38.2	30.1	1,971	25,180
10	Golden Harvest	G09E98	GLY,Bt,LL,CRW,	109	60.5	11.4	28.7	5.3	43.4	37.7	43.4	2,222	25,166
21	NuTech\G2 Genetics	X5Z-1001	GLY,BT,LL	110	57.5	10.9	25.7	5.3	41.4	36.7	45.0	2,276	24,910
19	NuTech\G2 Genetics	5F-709	GLY,BT,LL	109	57.5	10.9	25.8	5.3	41.5	37.2	44.5	2,278	24,864
17	Masters Choice	MCT 6153	GLY,Bt,LL,CRW	111	59.8	10.7	26.6	4.7	45.4	41.1	41.7	2,424	24,574
26	WENSMAN	W7473VT3PRIB	GLY,Bt,CRW	109	59.3	10.4	25.4	5.1	44.3	39.7	42.8	2,322	24,408
4	AgriGold	A6462STXRIB	GLY,Bt,LL,CRW	110	60.5	10.6	26.9	4.2	44.1	40.0	41.9	2,293	24,268
27	WENSMAN	W91073STXRIB	GLY,Bt,LL,CRW	107	55.7	10.6	24.0	4.6	42.3	38.4	44.8	2,274	24,114
14	Latham	LH 6175	—	111	53.8	10.6	23.1	4.3	42.8	38.5	43.4	2,268	24,002
16	Latham	LH Ex114	GLY,Bt,LL,CRW,	114	61.3	10.2	26.6	4.2	45.6	38.5	41.2	2,217	22,688
23	Producers Hybrids	6968STXRIB	GLY,Bt,LL,CRW	109	61.8	9.9	25.8	4.5	45.6	39.2	40.9	2,240	22,319
5	DAIRYLAND SEED	HiDF-3808RA	GLY,Bt,LL,CRW	108	62.3	10.9	29.1	4.7	54.3	39.4	32.0	1,964	21,524
9	Gold Country Seed	108-91RSS	GLY,Bt,LL,CRW	108	58.8	9.1	22.3	4.3	42.4	39.0	45.7	2,320	21,205
3	AgriGold	A6458VT3PRIB	GLY,Bt,CRW	110	65.0	10.0	28.2	5.3	47.3	37.9	37.2	2,105	21,152
Mean					58.4	11.3	27.2	4.7	44.5	38.8	41.9	2,251	25,386
LSD (0.10)					1.6	0.8	1.4	0.4	2.6	1.2	2.6	63.3	2,109
C.V.					7.2	16.1	14.1	18.5	13.2	6.3	14.7	6.9	18.4

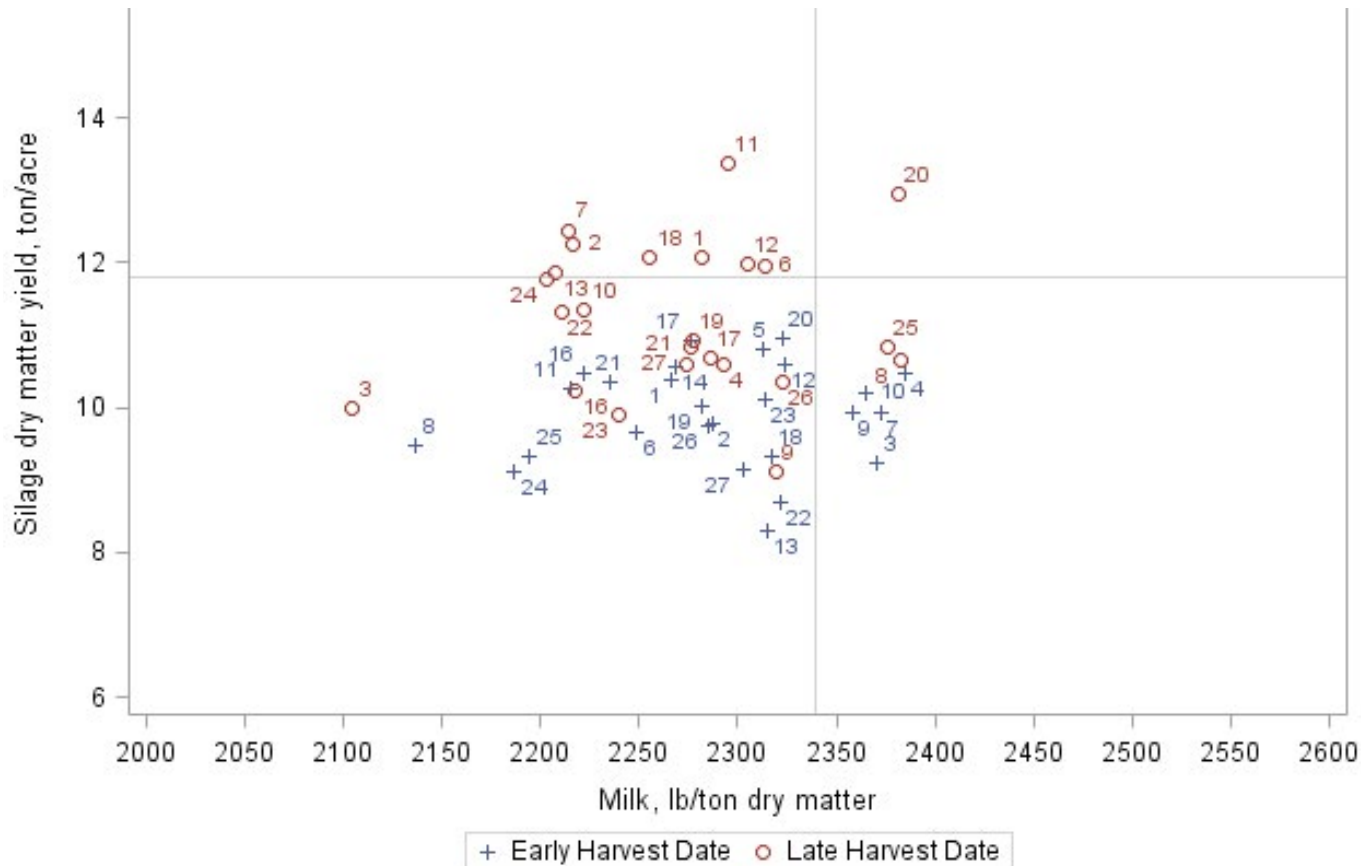
¹Bt, CRW, GLY, LL and Lf traits contain genes for European corn borer tolerance, corn rootworm tolerance, glyphosate herbicide tolerance, Liberty (glufosinate-ammonium) herbicide tolerance and leafy trait, respectively.

²DM yield is whole-plant corn yield at 100% dry matter; Silage yield is whole-plant corn yield at harvest moisture.

³Quality concentration expressed as a % of DM, except NDFD which is expressed as a % of NDF. Refer to Results Provided text for additional information.

⁴Milk production was estimated using spreadsheet MILK2006 developed at the University of Wisconsin. Refer to Results Provided text for additional information.

Figure 2. Relationship between silage dry matter yield and milk per ton for SE early and late corn hybrids planted at Waseca, MN (Waseca County) in 2016



1. Relationship between silage dry matter yield and milk per ton at Waseca (Waseca County) in 2016. Silage dry matter yield values above the dashed line were among the highest in this trial at the 10% probability level.
2. Milk per ton values to the right of the dashed line were among the highest in this trial at the 10% probability level.
3. Entry numbers are shown for hybrids with silage dry matter yield and milk per ton values that were among the highest for both categories.

Table 5. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for Central early corn hybrids planted at Hutchinson, MN (McLeod County) in 2016.

No.	Company	Entry	Traits ¹	RM	Moist, %	Yield, Tons/Acre ²		Quality (concentration), % ³				Milk Yield ⁴	
						DM	Silage	CP	NDF	NDFD	Starch	lb/Ton	lb/Acre
20	Masters Choice	MCT 5371	GLY	103	58.3	11.6	27.7	5.7	38.9	35.4	48.3	2,323	26,857
23	NuTech\G2 Genetics	5F-701	GLY,BT,LL	101	56.5	11.2	25.7	5.3	39.2	34.7	48.2	2,288	25,662
12	Gold Country Seed	HDS76-26RSS	GLY,Bt,LL,CRW	102	63.0	10.7	28.8	5.7	39.8	36.6	44.5	2,313	24,776
19	Masters Choice	MCT 4884	GLY,Bt,LL,CRW	98	56.8	10.6	24.6	5.6	38.8	36.5	47.7	2,334	24,726
5	DAIRYLAND SEED	HiDF-3099-9	GLY,Bt,LL,CRW	99	59.3	10.7	26.4	6.1	40.1	34.8	48.1	2,257	24,158
9	DEKALB	DKC49-72RIB	GLY,Bt,LL,CRW	99	56.3	10.5	24.1	5.7	40.1	36.1	47.1	2,274	24,025
22	NuTech\G2 Genetics	5F-196	GLY,BT,LL	96	54.5	10.5	23.3	5.4	38.1	34.8	49.4	2,296	24,017
11	Gold Country Seed	102-88RSS	GLY,Bt,CRW	102	58.8	10.4	25.1	5.4	41.3	38.1	44.7	2,318	23,998
7	DAIRYLAND SEED	HiDF-3702-9	GLY,Bt,LL,CRW	102	61.3	11.0	28.2	5.2	41.6	33.7	45.8	2,165	23,814
24	NuTech\G2 Genetics	5H-502	GLY,BT,LL	102	61.5	10.5	27.3	6.1	39.4	34.0	47.1	2,252	23,673
6	DAIRYLAND SEED	HiDF-3700RA	GLY,Bt,LL,CRW	100	60.0	10.5	26.1	5.6	42.3	36.9	43.0	2,242	23,505
3	Channel	198-98STXRIB Brand Blend	GLY,Bt,LL,CRW	98	58.8	10.8	26.2	6.2	41.5	35.5	44.2	2,174	23,478
4	DAIRYLAND SEED	HiDF-3197RA	GLY,Bt,LL,CRW	97	58.8	10.6	25.7	5.9	41.6	34.6	45.2	2,200	23,382
33	WENSMAN	W9325STXRIB	—	102	58.0	10.4	24.9	5.4	40.4	34.8	47.6	2,228	23,174
14	Latham	LH 5215	—	102	59.8	10.5	25.8	6.0	41.2	33.5	45.8	2,192	22,988
31	WENSMAN	W90994STXRIB	—	99	59.8	10.2	25.2	6.0	41.5	35.6	45.2	2,220	22,856
13	Latham	LH 4529	—	95	53.5	10.0	21.6	6.2	39.6	35.3	47.7	2,267	22,702
1	Anderson Seeds	6073	—	101	51.5	10.1	20.9	5.2	41.0	36.0	46.1	2,248	22,676
32	WENSMAN	W91018STX	—	101	58.8	10.2	24.6	5.8	39.8	34.8	46.9	2,229	22,660
10	DEKALB	DKC51-38RIB	GLY,Bt,LL,CRW	101	59.8	10.6	26.3	6.3	43.4	34.8	42.7	2,117	22,472
30	WENSMAN	W9288STXRIB	—	98	58.3	9.9	23.7	5.7	42.3	37.7	44.2	2,256	22,365
25	Producers Hybrids	6108STXRIB	GLY,Bt,LL,CRW	101	58.3	9.8	23.4	5.6	39.4	35.5	48.6	2,274	22,299
17	Masters Choice	MCT 4572	GLY, BT, LL, BL	95	59.0	10.2	24.9	6.1	43.6	36.0	41.8	2,170	22,202
28	Viking	T51-01R	GLY	101	54.8	9.8	21.5	5.5	39.4	35.5	46.9	2,271	22,181
29	WENSMAN	W90962STXRIB	—	96	54.0	9.8	21.3	6.2	40.5	35.3	47.7	2,233	21,935
2	Channel	197-50STXRIB Brand Blend	GLY,Bt,LL,CRW	97	57.8	9.8	23.3	5.2	40.3	35.0	46.2	2,228	21,878
21	NuTech	5N-800	GLY,BT,LL,CRW	100	56.3	9.9	22.5	5.9	40.9	34.3	46.1	2,185	21,498
18	Masters Choice	MCT 4632	GLY, BT, LL, BL	96	56.3	9.3	21.3	6.8	38.4	36.0	47.6	2,282	21,231
26	Producers Hybrids	6318STXRIB	GLY,Bt,LL, CRW	103	59.8	9.9	24.6	5.6	43.5	35.8	42.5	2,146	21,198
27	Viking	42-92N	—	92	48.0	9.6	18.5	5.0	43.1	34.7	46.8	2,152	20,577
15	Masters Choice	MCT 3891	GLY	89	46.0	9.1	16.9	6.1	44.6	36.3	43.4	2,155	19,514
8	DEKALB	DKC46-79RIB	GLY,Bt,LL,CRW	96	54.4	8.9	20.9	5.1	40.6	34.8	46.1	2,213	19,500
16	Masters Choice	MCT 4211	GLY	92	48.3	9.2	17.9	5.0	43.9	33.3	43.8	2,082	19,121
	Mean				56.9	10.2	23.9	5.7	40.9	35.4	46.0	2,230	22,760
	LSD (0.10)				0.9	0.4	0.8	0.2	1.1	0.5	1.3	42.2	1,002
	C.V.				8.1	11.4	14.9	11.4	8.8	5.3	9.0	6.0	14.3

¹Bt, CRW, GLY, LL and Lf traits contain genes for European corn borer tolerance, corn rootworm tolerance, glyphosate herbicide tolerance, Liberty (glufosinate-ammonium) herbicide tolerance and leafy trait, respectively.

²DM yield is whole-plant corn yield at 100% dry matter; Silage yield is whole-plant corn yield at harvest moisture.

³Quality concentration expressed as a % of DM, except NDFD which is expressed as a % of NDF. Refer to Results Provided text for additional information.

⁴Milk production was estimated using spreadsheet MILK2006 developed at the University of Wisconsin. Refer to Results Provided text for additional information.

Table 6. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for Central late corn hybrids planted at Hutchinson, MN (McLeod County) in 2016.

No.	Company	Entry	Traits ¹	RM	Moist, %	Yield, Tons/Acre ²		Quality (concentration), % ³				Milk Yield ⁴	
						DM	Silage	CP	NDF	NDFD	Starch	lb/Ton	lb/Acre
23	NuTech\G2 Genetics	5F-906	GLY,BT,LL	106	61.8	12.8	33.5	6.1	38.0	34.7	47.8	2,313	29,425
24	NuTech\G2 Genetics	5H-806	GLY,BT,LL	106	61.8	12.4	32.7	5.7	38.2	36.2	47.2	2,349	29,088
7	DAIRYLAND SEED	DS-9403	GLY,Bt,LL,CRW	103	55.8	12.0	27.0	5.8	38.7	36.8	47.8	2,379	28,602
6	DAHLMAN	R52-352SSRIB	GLY,Bt,LL,CRW	104	58.3	12.1	29.1	5.5	38.5	35.7	47.3	2,296	27,822
3	Channel	203-01STXRIB Brand Blend	GLY,Bt,LL,CRW	103	59.8	10.9	27.2	5.5	36.6	35.0	49.5	2,384	26,085
5	DAHLMAN	R52-328SSRIB	GLY,Bt,LL,CRW	103	56.5	11.1	25.2	6.0	38.3	36.1	48.1	2,364	26,023
22	NuTech\G2 Genetics	5F-504	GLY,BT,LL	104	61.3	11.4	29.3	5.7	40.3	36.2	45.2	2,271	25,846
10	DAIRYLAND SEED	Exp-10707	GLY,Bt,LL,CRW	107	62.8	11.2	29.9	5.3	39.3	34.6	45.9	2,301	25,828
11	DAIRYLAND SEED	HiDF-3808RA	GLY,Bt,LL,CRW	108	64.7	12.0	34.1	6.1	43.2	34.3	41.4	2,141	25,760
19	Latham	LH 5335	—	103	57.0	11.0	25.6	6.0	37.5	34.6	51.2	2,316	25,495
15	Gold Country Seed	HDS76-76RSS	GLY,Bt,LL,CRW	107	60.8	11.1	28.4	5.8	40.9	35.8	44.4	2,252	25,111
25	Tracy Seeds	T104-13 3000GT	GLY,Bt,LL,CRW	104	59.3	10.5	25.6	5.5	37.0	36.0	49.4	2,352	24,734
13	DEKALB	DKC56-45RIB	GLY,Bt,LL,CRW	106	61.3	10.3	26.4	5.3	38.8	38.2	46.9	2,388	24,591
21	NuTech	5N-406	GLY,BT,LL	106	63.0	10.8	29.1	5.6	40.6	37.2	44.7	2,275	24,564
17	Golden Harvest	G07F23	GLY, BL,BT,LL,CRW	107	63.3	11.2	30.4	6.0	42.0	34.6	42.8	2,193	24,461
27	Viking	O.51-04GS	—	104	60.0	10.7	25.5	5.5	39.3	34.4	48.1	2,289	24,450
14	DEKALB	DKC57-97RIB	GLY,Bt,LL,CRW	107	62.3	10.7	28.3	6.0	40.9	36.9	43.7	2,293	24,446
4	Channel	205-19STXRIB Brand Blend	GLY,Bt,LL,CRW	105	59.8	10.7	26.7	5.6	39.8	35.0	46.1	2,272	24,443
8	DAIRYLAND SEED	HiDF-3103-9	GLY,Bt,LL,CRW	103	60.8	10.9	28.1	5.9	41.6	34.6	44.8	2,194	24,013
16	Gold Country Seed	108-91RSS	GLY,Bt,LL,CRW	108	61.8	10.2	26.7	5.9	38.2	35.9	48.0	2,353	23,960
2	Anderson Seeds	533R	Roundup Ready 2	103	62.8	10.1	26.9	5.9	39.0	38.4	45.0	2,360	23,738
20	Latham	LH 5495	—	104	62.3	10.9	28.6	5.4	44.1	36.6	40.6	2,143	23,231
9	DAIRYLAND SEED	HiDF-3605RA	GLY,Bt,LL,CRW	105	64.3	10.7	29.8	6.8	43.3	33.9	41.3	2,133	22,863
12	DAIRYLAND SEED	DS-9508RA	GLY,Bt,LL,CRW	108	64.3	9.8	26.1	5.8	39.5	34.3	46.1	2,242	22,058
26	Viking	GT5781	GLY	104	59.8	10.1	25.1	5.1	44.6	35.9	40.5	2,118	21,563
18	Golden Harvest	G09E98	GLY,Bt,LL,CRW,	109	66.8	10.3	30.6	5.9	45.4	33.8	38.3	2,015	20,748
1	Anderson Seeds	5303	—	103	59.5	9.4	23.2	5.6	41.5	35.8	45.3	2,189	20,630
Mean					61.1	10.9	28.0	5.8	40.2	35.6	45.5	2,267	24,790
LSD (0.10)					0.9	0.5	1.4	0.3	1.4	0.8	1.6	54.5	1,517
C.V.					4.9	11.4	12.6	11.4	8.7	5.4	9.3	6.0	14.2

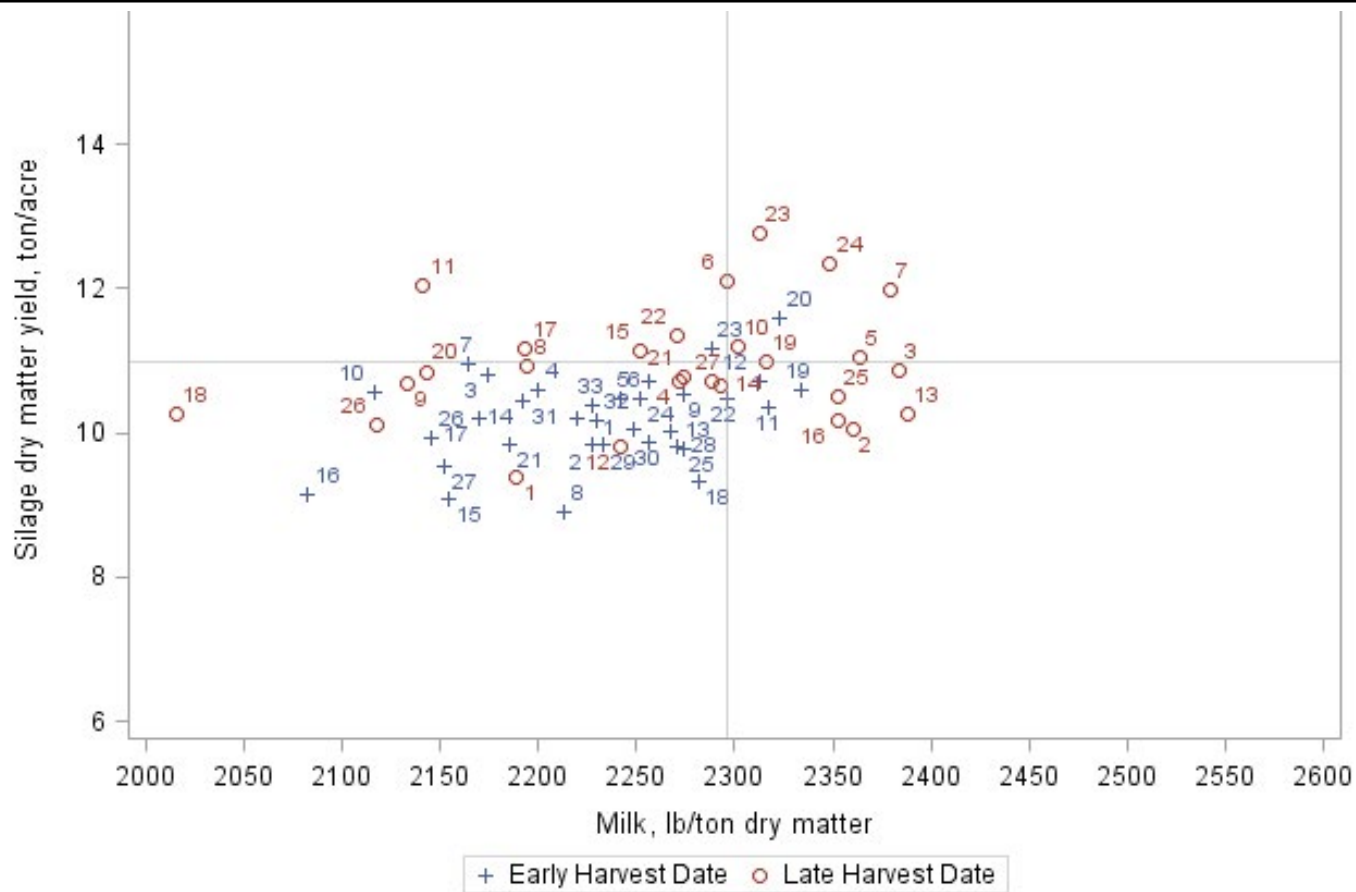
¹Bt, CRW, GLY, LL and Lf traits contain genes for European corn borer tolerance, corn rootworm tolerance, glyphosate herbicide tolerance, Liberty (glufosinate-ammonium) herbicide tolerance and leafy trait, respectively.

²DM yield is whole-plant corn yield at 100% dry matter; Silage yield is whole-plant corn yield at harvest moisture.

³Quality concentration expressed as a % of DM, except NDFD which is expressed as a % of NDF. Refer to Results Provided text for additional information.

⁴Milk production was estimated using spreadsheet MILK2006 developed at the University of Wisconsin. Refer to Results Provided text for additional information.

Figure 3. Relationship between silage dry matter yield and milk per ton for Central early and late corn hybrids planted at Hutchinson, MN (McLeod County) in 2016.



1. Relationship between silage dry matter yield and milk per ton at Hutchinson (McLeod County) in 2016. Silage dry matter yield values above the dashed line were among the highest in this trial at the 10% probability level.
2. Milk per ton values to the right of the dashed line were among the highest in this trial at the 10% probability level.
3. Entry numbers are shown for hybrids with silage dry matter yield and milk per ton values that were among the highest for both categories.

Table 7. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for Central early corn hybrids planted at Waseca, MN (Waseca County) in 2016.

No.	Company	Entry	Traits ¹	RM	Moist, %	Yield, Tons/Acre ²		Quality (concentration), % ³				Milk Yield ⁴	
						DM	Silage	CP	NDF	NDFD	Starch	lb/Ton	lb/Acre
23	NuTech\G2 Genetics	5F-701	GLY,BT,LL	101	60.0	10.9	27.6	5.4	37.4	37.3	47.2	2,417	26,566
28	Viking	T51-01R	GLY	101	58.5	10.7	25.8	6.1	37.7	38.9	46.8	2,451	26,393
32	WENSMAN	W91018STX	—	101	61.3	10.4	26.8	5.3	36.1	38.1	49.4	2,472	25,793
16	Masters Choice	MCT 4211	GLY	92	54.3	10.1	22.2	5.6	34.4	38.7	52.0	2,538	25,662
4	DAIRYLAND SEED	HiDF-3197RA	GLY,Bt,LL,CRW	97	61.0	10.6	27.0	5.7	36.7	36.3	49.6	2,421	25,646
1	Anderson Seeds	6073	—	101	57.5	10.8	25.5	4.7	39.4	39.6	45.2	2,373	25,529
17	Masters Choice	MCT 4572	GLY, BT, LL, BL	95	61.0	10.4	26.6	6.3	38.5	39.0	47.2	2,431	25,205
24	NuTech\G2 Genetics	5H-502	GLY,BT,LL	102	62.8	10.3	27.7	6.0	38.0	37.9	47.1	2,438	25,146
5	DAIRYLAND SEED	HiDF-3099-9	GLY,Bt,LL,CRW	99	62.8	10.6	28.5	5.1	38.7	37.8	47.4	2,363	25,113
18	Masters Choice	MCT 4632	GLY, BT, LL, BL	96	59.0	10.3	25.3	5.8	36.5	37.9	49.5	2,428	24,985
22	NuTech\G2 Genetics	5F-196	GLY,BT,LL	96	58.0	11.1	26.4	5.8	39.5	36.0	47.4	2,313	24,982
7	DAIRYLAND SEED	HiDF-3702-9	GLY,Bt,LL,CRW	102	65.8	11.0	32.1	5.3	41.3	37.5	41.8	2,259	24,871
6	DAIRYLAND SEED	HiDF-3700RA	GLY,Bt,LL,CRW	100	63.0	10.5	28.4	5.3	41.2	39.0	43.1	2,371	24,863
19	Masters Choice	MCT 4884	GLY,Bt,LL,CRW	98	61.5	10.4	27.0	4.6	39.5	38.4	44.6	2,358	24,448
3	Channel	198-98STXRIB Brand Blend	GLY,Bt,LL,CRW	98	63.0	10.3	27.8	6.1	38.5	36.6	47.0	2,365	24,372
20	Masters Choice	MCT 5371	GLY	103	62.8	10.1	27.1	5.4	39.4	38.4	45.3	2,388	24,371
31	WENSMAN	W90994STXRIB	—	99	63.3	10.2	27.6	5.6	40.2	38.8	43.4	2,358	24,169
27	Viking	42-92N	—	92	57.8	9.9	23.3	4.7	37.1	40.2	49.2	2,421	24,018
21	NuTech	5N-800	GLY,Bt,LL,CRW	100	59.5	10.1	24.9	4.9	38.1	38.5	46.5	2,372	23,903
14	Latham	LH 5215	—	102	63.3	10.1	27.3	5.0	40.9	40.3	42.4	2,379	23,518
11	Gold Country Seed	102-88RSS	GLY,Bt,CRW	102	62.0	9.9	26.2	5.0	40.7	40.5	44.1	2,365	23,434
2	Channel	197-50STXRIB Brand Blend	GLY,Bt,LL,CRW	97	61.3	9.9	25.7	5.5	44.5	40.3	39.2	2,189	22,608
29	WENSMAN	W90962STXRIB	—	96	60.0	9.6	24.2	4.7	40.4	40.2	43.7	2,323	22,418
13	Latham	LH 4529	—	95	60.5	9.0	22.8	6.1	36.6	39.4	48.4	2,475	22,325
8	DEKALB	DKC46-79RIB	GLY,Bt,LL,CRW	96	60.5	9.3	23.3	5.9	38.3	38.7	46.7	2,395	22,254
33	WENSMAN	W9325STXRIB	—	102	64.3	9.6	26.5	5.3	40.9	37.4	44.2	2,298	22,054
26	Producers Hybrids	6318STXRIB	GLY,Bt,LL,CRW	103	62.3	9.3	24.8	6.0	40.9	38.8	44.4	2,334	21,784
25	Producers Hybrids	6108STXRIB	GLY,Bt,LL,CRW	101	64.3	9.3	25.9	5.0	41.6	39.9	42.9	2,328	21,744
15	Masters Choice	MCT 3891	GLY	89	52.0	9.3	19.3	5.3	41.8	39.5	43.8	2,334	21,578
12	Gold Country Seed	HDS76-26RSS	GLY,Bt,LL,CRW	102	66.3	9.0	27.4	4.4	46.4	39.4	36.3	2,159	21,577
30	WENSMAN	W9288STXRIB	—	98	62.5	8.9	23.7	5.6	39.3	38.9	46.7	2,411	21,493
9	DEKALB	DKC49-72RIB	GLY,Bt,LL,CRW	99	61.8	8.8	22.9	5.1	39.0	40.2	45.6	2,411	21,141
10	DEKALB	DKC51-38RIB	GLY,Bt,LL,CRW	101	65.0	8.4	24.3	5.4	40.6	39.7	41.9	2,346	19,761
Mean					61.2	10.0	25.8	5.4	39.4	38.7	45.5	2,374	23,730
LSD (0.10)					0.8	0.4	1.0	0.3	1.6	0.8	1.9	57.6	1,354
C.V.					5.6	10.2	11.3	12.9	9.3	4.8	10.1	5.3	12.8

¹Bt, CRW, GLY, LL and Lf traits contain genes for European corn borer tolerance, corn rootworm tolerance, glyphosate herbicide tolerance, Liberty (glufosinate-ammonium) herbicide tolerance and leafy trait, respectively.

²DM yield is whole-plant corn yield at 100% dry matter; Silage yield is whole-plant corn yield at harvest moisture.

³Quality concentration expressed as a % of DM, except NDFD which is expressed as a % of NDF. Refer to Results Provided text for additional information.

⁴Milk production was estimated using spreadsheet MILK2006 developed at the University of Wisconsin. Refer to Results Provided text for additional information.

Table 8. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for Central late corn hybrids planted at Waseca, MN (Waseca County) in 2016.

No.	Company	Entry	Traits ¹	RM	Moist, %	Yield, Tons/Acre ²		Quality (concentration), % ³				Milk Yield ⁴	
						DM	Silage	CP	NDF	NDFD	Starch	lb/Ton	lb/Acre
10	DAIRYLAND SEED	Exp-10707	GLY,Bt,LL,CRW	107	67.5	10.1	31.4	5.0	40.8	40.8	43.6	2,341	23,696
17	Golden Harvest	G07F23	GLY, BL,BT,LL,CRW	107	68.3	10.3	32.8	4.7	42.4	39.4	41.3	2,271	23,491
7	DAIRYLAND SEED	DS-9403	GLY,Bt,LL,CRW	103	65.3	9.9	28.5	4.2	40.6	38.1	44.5	2,277	22,839
4	Channel	205-19STXRIB Brand Blend	GLY,Bt,LL,CRW	105	65.8	9.7	28.2	5.0	39.5	38.5	45.7	2,327	22,610
22	NuTech\G2 Genetics	5F-504	GLY,BT,LL	104	66.5	9.6	28.5	4.9	40.4	40.8	44.8	2,324	22,241
18	Golden Harvest	G09E98	GLY,Bt,LL,CRW,	109	66.5	9.5	28.9	4.6	40.8	39.1	43.0	2,295	21,882
27	Viking	O.51-04GS	—	104	67.0	9.4	28.7	4.6	41.1	39.9	46.4	2,315	21,826
23	NuTech\G2 Genetics	5F-906	GLY,BT,LL	106	67.0	9.9	29.9	4.6	42.7	38.7	40.4	2,218	21,032
20	Latham	LH 5495	—	104	65.8	9.3	27.2	4.4	44.4	41.9	38.9	2,254	20,956
24	NuTech\G2 Genetics	5H-806	GLY,BT,LL	106	67.3	9.2	26.8	4.9	41.4	39.5	43.0	2,285	20,876
16	Gold Country Seed	108-91RSS	GLY,Bt,LL,CRW	108	67.5	9.0	27.5	4.4	40.1	39.5	44.3	2,327	20,849
9	DAIRYLAND SEED	HiDF-3605RA	GLY,Bt,LL,CRW	105	68.8	9.0	28.6	4.5	42.0	40.1	42.0	2,278	20,411
11	DAIRYLAND SEED	HiDF-3808RA	GLY,Bt,LL,CRW	108	70.3	9.2	31.0	4.6	43.8	40.1	39.3	2,227	20,347
19	Latham	LH 5335	—	103	65.8	8.8	25.8	4.3	41.1	39.7	43.9	2,300	20,303
8	DAIRYLAND SEED	HiDF-3103-9	GLY,Bt,LL,CRW	103	67.3	9.3	28.4	4.8	43.7	38.7	40.2	2,174	20,156
12	DAIRYLAND SEED	DS-9508RA	GLY,Bt,LL,CRW	108	67.8	8.6	26.6	4.5	40.4	39.9	44.0	2,338	19,980
21	NuTech	5N-406	GLY,BT,LL	106	67.3	8.8	26.7	4.3	42.6	40.6	41.6	2,255	19,922
15	Gold Country Seed	HDS76-76RSS	GLY,Bt,LL,CRW	107	71.0	8.8	30.0	4.8	43.8	40.0	40.0	2,188	19,226
3	Channel	203-01STXRIB Brand Blend	GLY,Bt,LL,CRW	103	68.8	8.1	25.8	5.2	42.2	40.0	41.9	2,256	18,288
1	Anderson Seeds	5303	—	103	67.8	8.3	26.0	4.9	43.4	39.5	41.5	2,200	18,279
26	Viking	GT5781	GLY	104	67.0	7.2	22.1	5.1	42.7	40.4	41.0	2,247	18,107
6	DAHLMAN	R52-352SSRIB	GLY,Bt,LL,CRW	104	64.8	9.3	26.2	4.2	43.0	39.5	43.2	2,170	17,532
25	Tracy Seeds	T104-13 3000GT	GLY,Bt,LL,CRW	104	69.8	7.8	25.5	4.8	43.2	40.7	41.0	2,232	17,369
5	DAHLMAN	R52-328SSRIB	GLY,Bt,LL,CRW	103	69.0	7.7	24.9	4.4	45.2	40.6	37.7	2,214	17,112
2	Anderson Seeds	533R	Roundup Ready 2	103	67.3	7.6	23.4	5.2	41.8	39.9	42.2	2,255	16,776
Mean					67.5	9.0	27.7	4.7	42.1	39.9	42.2	2,266	20,315
LSD (0.10)					1.0	0.4	1.2	0.3	1.6	0.6	1.8	49.5	1,145
C.V.					3.6	13.1	11.9	12.4	7.6	3.4	9.1	4.3	14.7

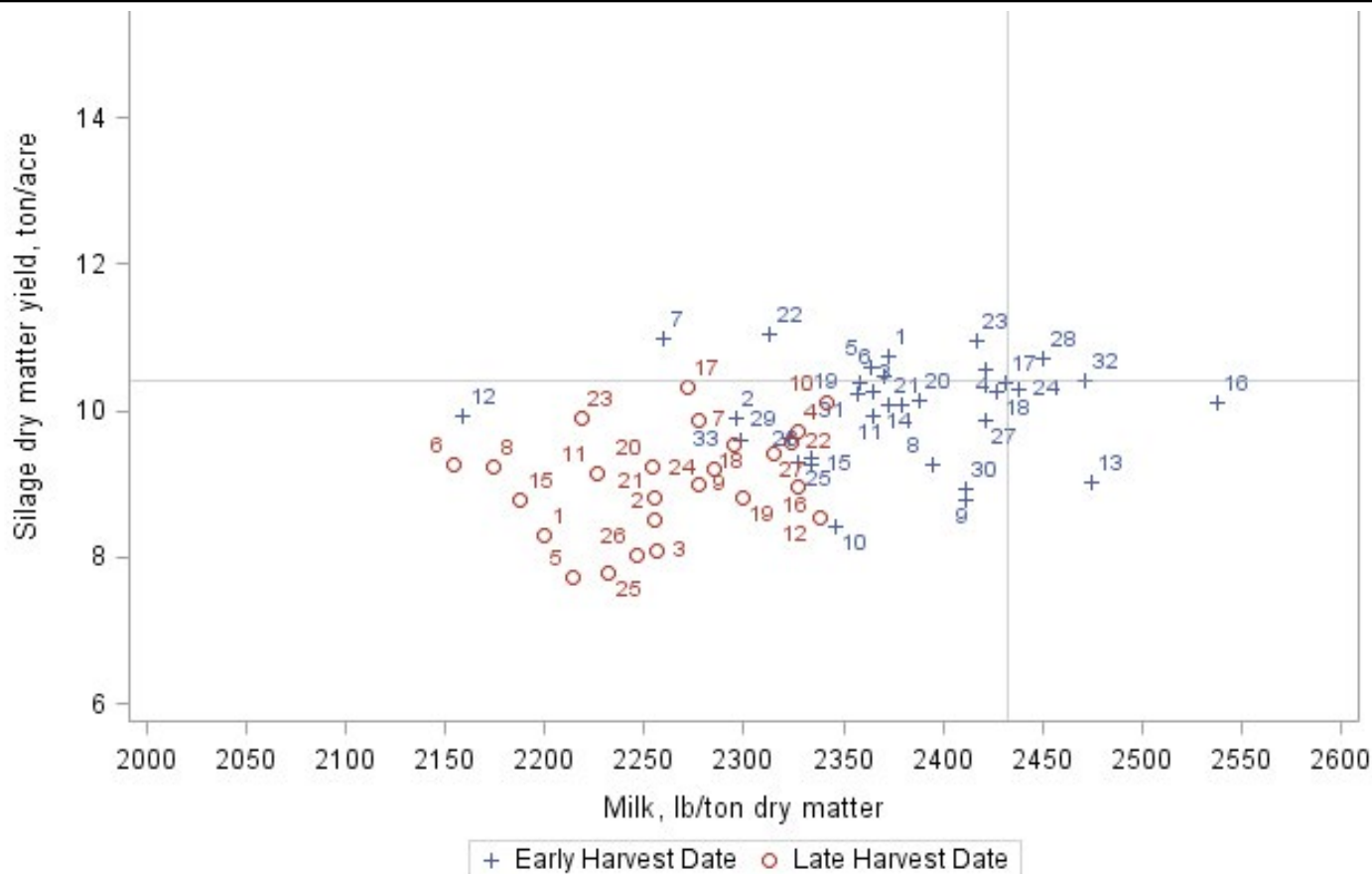
¹Bt, CRW, GLY, LL and Lf traits contain genes for European corn borer tolerance, corn rootworm tolerance, glyphosate herbicide tolerance, Liberty (glufosinate-ammonium) herbicide tolerance and leafy trait, respectively.

²DM yield is whole-plant corn yield at 100% dry matter; Silage yield is whole-plant corn yield at harvest moisture.

³Quality concentration expressed as a % of DM, except NDFD which is expressed as a % of NDF. Refer to Results Provided text for additional information.

⁴Milk production was estimated using spreadsheet MILK2006 developed at the University of Wisconsin. Refer to Results Provided text for additional information.

Figure 4. Relationship between silage dry matter yield and milk per ton for Central early and late corn hybrids planted at Waseca, MN (Waseca County) in 2016.



1. Relationship between silage dry matter yield and milk per ton at Waseca (Waseca County) in 2016. Silage dry matter yield values above the dashed line were among the highest in this trial at the 10% probability level.
2. Milk per ton values to the right of the dashed line were among the highest in this trial at the 10% probability level.
3. Entry numbers are shown for hybrids with silage dry matter yield and milk per ton values that were among the highest for both categories.