Table 1. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for corn hybrids planted at LaCrescent, MN (Houston County) in 2012. Planting date: May 15, 2012; harvest date: September 6, 2012.

					Yield [2]		Quality (concentration) [3]					Milk Yield [4]	
No.	Company/ Entry	Traits [1]	RM	Moist	DM	silage	CP	NDF	IVD	NDFD	Starch	Ton	Acre
				%	- ton/ acre -				%			lb/ ton	lb/ acre
1	Renk/ RK829VT3	Bt,CRW,GLY	112	64.2	13.5	37.8	8.1	38	80	53	33	3,540	47,900
2	G2 Genetics/ 3D-909™	Bt,CRW,GLY.LL	109	63.6	12.6	34.7	8.3	33	81	52	38	3,660	46,200
3	Pioneer/ 33F88	Bt,CRW,GLY.LL	114	65.5	12.9	37.5	7.8	38	80	53	34	3,560	46,000
4	Channel/ 209-85VT3P Brand	BT,CRW,GLY	109	64.8	12.9	36.7	7.9	38	80	53	33	3,560	45,900
5	Pioneer/ P1339XR	Bt,CRW,GLY.LL	113	65.0	12.5	35.9	8.3	38	81	52	33	3,530	44,300
6	DEKALB/ DKC 56-55	Bt,CRW,GLY	106	60.7	12.8	32.6	7.3	37	80	52	37	3,460	44,300
7	Trelay Seeds/ 7VP104	Bt,CRW,GLY	107	65.5	12.2	35.3	8.1	38	82	54	33	3,580	43,600
8	G2 Genetics/ 5X-214™	Bt,CRW,GLY.LL	113	66.9	12.5	37.9	7.7	40	80	52	32	3,470	43,500
9	AgriGold/ A6323GT3	Bt,CRW,GLY.LL	103	61.8	12.3	32.2	7.4	37	81	53	35	3,510	43,200
10	G2 Genetics/ 3F-511™	Bt,GLY,LL	111	66.0	12.3	36.3	7.5	42	79	54	30	3,460	42,600
11	DAIRYLAND SEED/ HiD.F. 3108-Q	Bt,CRW,GLY.LL	108	65.9	12.5	36.6	7.6	42	78	52	31	3,410	42,500
12	NK Brand/ N54H-3000GT	Bt,CRW,GLY.LL	105	62.3	12.0	31.9	7.8	38	81	54	34	3,520	42,300
13	Pioneer/ P0705XR	Bt,CRW,GLY.LL	107	63.9	11.9	32.9	8.1	38	80	54	34	3,560	42,200
14	G2 Genetics/ 5X-812™	Bt,CRW,GLY.LL	112	64.3	12.1	33.9	7.8	40	79	53	32	3,480	42,100
15	Legacy Seeds/ L-5810 3000GT	Bt,CRW,GLY.LL	106	61.8	11.9	31.2	7.4	37	80	52	35	3,490	41,500
16	Legend Seeds/ 9314-GENSSRIB	GLY	107	64.0	12.1	33.6	7.6	42	78	53	30	3,410	41,300
17	Legacy Seeds/ L-6331 3000GT	Bt,CRW,GLY.LL	108	65.2	11.8	33.8	7.5	39	80	52	33	3,500	41,200
18	Mycogen/ TMF 2Q719	Bt,CRW,GLY.LL	109	65.0	12.1	34.5	7.8	42	78	52	32	3,400	41,200
19	Wensman/ W 7566VT3PRO	Bt,CRW,GLY	111	65.8	11.8	34.3	7.6	40	80	53	33	3,490	41,100
20	Pioneer/ P0891AM1	Bt,CRW,GLY.LL	108	62.7	12.1	32.5	7.9	40	79	51	33	3,390	41,100
21	Producers Hybrids/ 7224VT3PRO	BT,CRW,GLY	112	67.5	11.7	36.1	7.8	40	80	52	32	3,470	40,700
22	Garst/ 85E98-3000GT	Bt,CRW,GLY.LL	109	64.8	11.3	32.2	7.6	37	81	53	35	3,590	40,600
23	DEKALB/ DKC 61-21	Bt,CRW,GLY.LL	111	67.1	11.4	34.7	8.3	39	81	54	33	3,550	40,500
24	NuTech/ 5N-910™	Bt,CRW,GLY.LL	110	64.2	11.6	32.3	7.8	38	80	51	34	3,490	40,400
25	Renk/ RK795VT3P	Bt,CRW,GLY	108	64.0	11.4	31.6	7.9	38	80	53	33	3,540	40,300
26	Wensman/ W 7330VT3	Bt,CRW,GLY	109	62.5	11.5	30.7	7.7	38	81	53	35	3,500	40,300
27	Mycogen/ 2R714	Bt,CRW,GLY.LL	109	66.9	11.7	35.4	7.6	42	78	53	30	3,430	40,200
28	AgriGold/ A6389VT3Pro	BT,CRW,GLY	106	64.5	11.2	31.6	7.8	38	81	54	34	3,570	40,100
29	G2 Genetics/ 5H-806™	Bt,GLY,LL	106	64.7	11.3	32.1	7.6	37	81	51	35	3,540	40,100
30	Producers Hybrids/ 6424VT3PRO	BT,CRW,GLY	104	64.4	11.4	32.1	7.8	40	80	53	33	3,490	39,800
31	Epley/ E1900		109	64.5	11.5	32.3	7.9	42	79	54	32	3,450	39,600
32	DEKALB/ DKC 52-04	Bt,CRW,GLY	102	62.4	11.3	30.0	8.1	40	80	55	32	3,490	39,300
33	DEKALB/ DKC 58-83	Bt,CRW,GLY	108	62.8	11.3	30.3	7.6	39	80	53	33	3,480	39,300
34	Trelay Seeds/ 6ST576RIB	Bt,CRW,GLY.LL	104	62.8	11.2	30.2	7.9	40	80	55	33	3,500	39,200
35	Legend Seeds/ 9004-3000GT	Bt,CRW,GLY.LL	104	60.3	11.2	28.2	7.6	36	81	53	37	3,500	39,100
36	G2 Genetics/ 5H-309™	Bt,GLY,LL	109	60.0	11.5	28.9	7.4	40	79	53	33	3,370	38,900
37	Trelay Seeds/ 7VP293	Bt,CRW,GLY	110	65.0	11.0	31.4	8.0	40	80	54	32	3,520	38,700
38	DEKALB/ DKC 55-09	Bt,CRW,GLY.LL	105	63.6	10.8	29.8	8.2	37	81	53	36	3,560	38,500
39	AgriGold/ A6408VT3Pro	BT,CRW,GLY	107	63.5	11.0	30.2	8.2	39	79	52	34	3,470	38,200
40	AgriGold/ A6384VT3Pro	BT,CRW,GLY	106	64.2	11.1	30.8	7.9	41	79	53	32	3,450	38,100
41	Golden Harvest/ H-8211 3000GT	Bt,CRW,GLY.LL	105	61.9	10.8	28.3	7.6	36	81	52	36	3,520	37,900
42	DEKALB/ DKC 61-88	Bt,CRW,GLY	111	64.6	10.8	30.6	8.1	39	80	52	33	3,500	37,900
43	Mycogen/ TMF 2W727	Bt,CRW,GLY.LL	113	68.5	11.1	35.2	7.9	43	78	53	29	3,400	37,700
44	Kussmaul Seed/ RFS-2407 ND	Nutri-Dense	108	66.1	10.8	31.8	8.6	41	79	53	32	3,460	37,200
45	AgriGold/ A6458VT3	BT,CRW,GLY	110	68.9	10.8	34.8	7.8	41	80	52	32	3,440	37,200
46	Mycogen/ TMF 2H699	Bt,CRW,GLY.LL	109	65.5	11.1	32.0	7.6	45	78	54	28	3,360	37,200
47	Anderson Seeds/ 615VT3P	Bt,CRW,GLY	99	62.6	10.8	28.9	7.8	40	79	53	33	3,440	37,100
48	NuTech/ 5N-406™	Bt,CRW,GLY.LL	106	64.3	10.4	29.1	7.4	38	79	52	35	3,520	36,600
49	Mycogen/ TMF 2L533	Bt,CRW,GLY.LL	101	63.4	10.7	29.3	7.8	44	78	56	28	3,420	36,600

50	Anderson Seeds/ 537VT3P	Bt,CRW,GLY	101	62.0	10.7	28.0	7.8	41	79	54	33	3,420	36,500
51	NuTech/ 5B-410™	Bt,GLY,LL	110	68.0	10.0	31.1	7.7	36	82	53	36	3,620	36,000
52	Anderson Seeds/ 6073		101	60.3	10.4	26.2	7.6	38	80	54	33	3,470	36,000
53	Wensman/ W 7473VT3PRO	Bt,CRW,GLY	109	67.6	10.5	32.3	8.1	41	80	52	32	3,440	35,900
54	Legend Seeds/ 9410-GENSSRIB	Bt,CRW,GLY.LL	107	63.7	10.3	28.4	7.6	42	78	54	30	3,430	35,400
55	Anderson Seeds/ 689R	GLY	95	63.6	10.1	27.8	7.9	44	78	56	28	3,420	34,700
56	Anderson Seeds/ 689VT3P	Bt,CRW,GLY	96	64.4	9.8	27.5	7.8	40	80	54	31	3,510	34,400
57	Anderson Seeds/ 615R	GLY	98	62.5	9.8	26.1	7.9	37	80	52	37	3,500	34,200
58	Legend Seeds/ 47J104-3000GT	Bt,CRW,GLY.LL	104	62.8	9.8	26.4	7.4	39	80	53	33	3,480	34,200
59	Trelay Seeds/ 6ST620RIB	Bt,CRW,GLY.LL	106	66.4	9.3	27.8	7.7	43	78	55	30	3,450	32,200
60	Anderson Seeds/ 537R	GLY	101	60.2	8.6	21.7	7.8	38	80	54	34	3,460	29,900
	mean			**64.2**	**11.3**	**31.8**	**7.8**	**39**	**80**	**53**	**33**	**3,490**	**39,500**
	LSD(0.10)			**2.3**	**1.2**	**3.1**	**0.4**	**3**	**2**	**2**	**5**	**120**	**4,200**
	CV			**3.1**	**9.5**	**8.4**	**3.3**	**8.1**	**2.0**	**2.6**	**9.1**	**3.1**	**9.2**

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

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

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

[4] Milk 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 corn hybrids planted at Rochester, MN (Olmsted County) in 2012. Planting date: May 16, 2012; harvest date: September 10, 2012.

					Yield [2]		Quality (concentration) [3]					Milk Yield [4]	
No.	Company/ Entry	Traits [1]	RM	Moist	DM	silage	CP	NDF	IVD	NDFD	Starch	Ton	Acre
				%	- ton/ acre -				%			lb/ ton	lb/ acre
1	Pioneer/ 33F88	Bt,CRW,GLY.LL	114	65.4	13.9	40.2	7.8	42	78	53	33	3,430	47,700
2	Garst/ 85E98-3000GT	Bt,CRW,GLY.LL	109	62.4	13.5	36.0	7.5	38	79	52	38	3,470	46,900
3	G2 Genetics/ 3D-909™	Bt,CRW,GLY.LL	109	62.5	13.8	36.9	8.0	42	78	53	33	3,380	46,700
4	Pioneer/ P1339XR	Bt,CRW,GLY.LL	113	65.8	14.0	40.8	7.8	45	75	53	30	3,340	46,600
5	Pioneer/ P0705XR	Bt,CRW,GLY.LL	107	61.1	13.8	35.4	7.6	43	77	54	33	3,340	46,000
6	Renk/ RK829VT3	Bt,CRW,GLY	112	66.2	13.6	40.2	8.3	43	77	52	31	3,370	45,900
7	Trelay Seeds/ 7VP293	Bt,CRW,GLY	110	62.5	13.0	34.8	8.0	39	79	53	36	3,470	45,200
8	G2 Genetics/ 5X-812™	Bt,CRW,GLY.LL	112	62.4	13.3	35.3	7.5	40	78	52	35	3,410	45,200
9	DEKALB/ DKC 61-21	Bt,CRW,GLY.LL	111	64.4	13.3	37.4	8.2	43	78	53	33	3,390	45,100
10	G2 Genetics/ 5X-214™	Bt,CRW,GLY.LL	113	66.5	13.6	40.6	7.9	45	76	52	28	3,310	45,000
11	Producers Hybrids/ 6424VT3PRO	BT,CRW,GLY	104	63.1	13.1	35.5	7.4	40	79	52	35	3,430	44,900
12	AgriGold/ A6384VT3Pro	BT,CRW,GLY	106	61.7	13.6	35.5	7.4	45	75	54	31	3,290	44,800
13	Legend Seeds/ 9314-GENSSRIB	GLY	107	63.1	13.1	35.4	7.5	41	78	53	35	3,420	44,700
14	G2 Genetics/ 3F-511™	Bt,GLY,LL	111	65.2	13.6	39.2	7.7	46	77	52	30	3,280	44,700
15	Wensman/ W 7473VT3PRO	Bt,CRW,GLY	109	65.3	12.9	37.3	7.8	42	78	53	34	3,430	44,400
16	DEKALB/ DKC 56-55	Bt,CRW,GLY	106	60.8	13.1	33.5	7.1	39	78	52	36	3,400	44,600
17	G2 Genetics/ 5H-806™	Bt,GLY,LL	106	62.8	12.9	34.7	7.6	39	79	51	35	3,430	44,300
18	NK Brand/ N54H-3000GT	Bt,CRW,GLY.LL	105	61.9	13.0	34.1	7.3	41	77	52	35	3,370	43,800
19	DAIRYLAND SEED/ HiD.F. 3108-Q	Bt,CRW,GLY.LL	108	65.3	13.0	37.4	7.4	45	75	54	30	3,370	43,700
20	Mycogen/ 2R714	Bt,CRW,GLY.LL	109	65.4	13.2	38.1	7.6	46	75	53	30	3,310	43,600
21	Renk/ RK795VT3P	Bt,CRW,GLY	108	63.2	12.8	34.8	7.7	44	77	55	31	3,390	43,400
22	Trelay Seeds/ 6ST576RIB	Bt,CRW,GLY.LL	104	64.3	12.4	34.8	7.9	40	78	53	35	3,480	43,300
23	Legacy Seeds/ L-6331 3000GT	Bt,CRW,GLY.LL	108	64.2	12.7	35.6	7.7	42	77	52	33	3,390	43,300
24	NuTech/ 5N-910™	Bt,CRW,GLY.LL	110	63.8	13.0	35.8	7.4	46	75	55	31	3,340	43,300
25	DEKALB/ DKC 58-83	Bt,CRW,GLY	108	61.6	12.9	33.5	7.6	42	77	53	32	3,360	43,200
26	Wensman/ W 7330VT3	Bt,CRW,GLY	109	62.7	12.6	33.8	7.1	40	78	52	35	3,420	43,100
27	DEKALB/ DKC 52-04	Bt,CRW,GLY	102	59.7	12.6	31.3	7.7	38	79	53	37	3,420	43,100
28	Trelay Seeds/ 7VP104	Bt,CRW,GLY	107	62.9	12.7	34.3	7.6	41	78	52	35	3,390	43,100
29	Legend Seeds/ 47J104-3000GT	Bt,CRW,GLY.LL	104	59.3	12.7	31.2	7.4	39	79	53	37	3,380	42,900
30	NuTech/ 5N-406™	Bt,CRW,GLY.LL	106	62.7	12.6	33.8	7.3	42	77	53	33	3,380	42,700
31	Pioneer/ P0891AM1	Bt,CRW,GLY.LL	108	63.2	13.0	35.4	7.7	43	76	50	33	3,280	42,700
32	DEKALB/ DKC 61-88	Bt,CRW,GLY	111	61.8	13.0	34.1	7.4	46	75	54	31	3,270	42,500
33	G2 Genetics/ 5H-309™	Bt,GLY,LL	109	58.7	13.0	31.5	7.6	42	78	52	33	3,260	42,400
34	DEKALB/ DKC 55-09	Bt,CRW,GLY.LL	105	62.2	12.3	32.5	8.0	39	79	52	35	3,430	42,200
35	AgriGold/ A6323GT3	Bt,CRW,GLY.LL	103	59.5	12.9	31.9	7.1	42	78	51	34	3,250	42,000
36	Legend Seeds/ 9410-GENSSRIB	Bt,CRW,GLY.LL	107	63.1	12.2	33.0	7.4	41	77	54	34	3,450	41,900
37	AgriGold/ A6389VT3Pro	BT,CRW,GLY	106	62.2	12.1	32.0	7.8	40	79	53	35	3,430	41,500
38	Golden Harvest/ H-8211 3000GT	Bt,CRW,GLY.LL	105	60.9	12.3	31.4	7.4	41	78	53	35	3,360	41,300
39	Mycogen/ TMF 2L533	Bt,CRW,GLY.LL	101	63.1	13.0	35.2	7.5	50	73	54	26	3,180	41,300
40	Anderson Seeds/ 615R	GLY	98	60.9	12.6	32.1	7.4	44	76	53	33	3,270	41,200
41	Kussmaul Seed/ RFS-2407 ND	Nutri-Dense	108	66.2	12.2	36.1	8.5	44	77	53	31	3,370	41,100
42	Legacy Seeds/ L-5810 3000GT	Bt,CRW,GLY.LL	106	62.8	11.9	32.1	7.3	40	78	52	35	3,420	40,800
43	Channel/ 209-85VT3P Brand	BT,CRW,GLY	109	61.9	12.3	32.4	7.3	45	76	54	31	3,300	40,700
44	AgriGold/ A6408VT3Pro	BT,CRW,GLY	107	62.3	12.3	32.6	7.6	44	76	53	32	3,310	40,600
45	Anderson Seeds/ 615VT3P	Bt,CRW,GLY	99	60.0	12.3	30.6	7.5	41	78	52	35	3,310	40,600
46	Producers Hybrids/ 7224VT3PRO	BT,CRW,GLY	112	66.0	12.1	35.6	7.7	45	77	53	31	3,340	40,400
47	Mycogen/ TMF 2H699	Bt,CRW,GLY.LL	109	65.8	12.5	36.5	7.8	49	74	54	26	3,240	40,400
48	Epley/ E1900		109	62.8	11.9	32.0	7.8	42	78	53	33	3,380	40,200
49	Wensman/ W 7566VT3PRO	Bt,CRW,GLY	111	65.5	11.8	34.0	7.9	44	78	54	32	3,400	39,900

50	Anderson Seeds/ 537VT3P	Bt,CRW,GLY	101	59.1	11.9	29.2	7.4	41	79	54	35	3,340	39,900
51	AgriGold/ A6458VT3	BT,CRW,GLY	110	65.9	11.5	33.9	7.7	42	78	53	33	3,430	39,600
52	NuTech/ 5B-410™	Bt,GLY,LL	110	66.0	11.5	33.8	7.7	42	78	53	34	3,430	39,500
53	Mycogen/ TMF 2Q719	Bt,CRW,GLY.LL	109	66.0	12.2	35.8	8.0	49	75	54	28	3,240	39,400
54	Anderson Seeds/ 689R	GLY	95	56.6	12.2	28.1	7.3	44	77	55	32	3,230	39,400
55	Anderson Seeds/ 6073		101	58.9	12.2	29.7	7.3	43	77	51	34	3,200	39,000
56	Trelay Seeds/ 6ST620RIB	Bt,CRW,GLY.LL	106	64.0	11.4	31.8	7.4	42	77	52	34	3,390	38,800
57	Mycogen/ TMF 2W727	Bt,CRW,GLY.LL	113	67.3	11.7	35.8	7.9	48	75	54	27	3,270	38,300
58	Legend Seeds/ 9004-3000GT	Bt,CRW,GLY.LL	104	61.2	11.2	29.0	7.4	40	78	52	36	3,380	38,000
59	Anderson Seeds/ 689VT3P	Bt,CRW,GLY	96	56.5	11.0	25.2	7.4	41	78	54	35	3,270	35,900
60	Anderson Seeds/ 537R	GLY	101	58.1	10.9	25.9	7.1	45	75	54	32	3,200	34,800
	mean			**62.8**	**12.6**	**34.1**	**7.6**	**43**	**77**	**53**	**33**	**3,350**	**42,400**
	LSD(0.10)			**2.3**	**1.2**	**3.4**	**0.5**	**3**	**2**	**2**	**4**	**130**	**4,500**
	CV			**3.1**	**8.1**	**8.7**	**4.5**	**7.0**	**2.0**	**3.0**	**7.9**	**3.4**	**9.2**

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

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

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

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

Table 3. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for corn hybrids planted at Hutchinson, MN (McLeod County) in 2012. Planting date: April 30, 2012; harvest date: September 4, 2012.

					Yield [2]		Quality (concentration) [3]					Milk Yield [4]	
No.	Company/ Entry	Traits [1]	RM	Moist	DM	silage	CP	NDF	IVD	NDFD	Starch	Ton	Acre
				%	- ton/ acre -				%			lb/ ton	lb/ acre
1	Renk/ RK733VT3PNDS	Bt,CRW,GLY,NDS	107	62.3	11.1	29.4	8.2	43	78	54	29	3,350	37,100
2	Channel/ 203-43VT3P Brand	BT,CRW,GLY	103	56.3	10.8	24.8	7.5	40	80	54	31	3,290	35,600
3	Legacy Seeds/ L-5810 3000GT	Bt,CRW,GLY.LL	106	58.9	10.0	24.4	7.5	37	80	53	34	3,410	34,200
4	Trelay Seeds/ 7VP104	Bt,CRW,GLY	107	58.0	10.0	23.8	7.7	40	81	54	32	3,330	33,300
5	G2 Genetics/ 5H-501™	Bt,GLY,LL	101	58.4	9.8	23.6	8.1	37	80	53	33	3,380	33,200
6	Masters Choice/ MC-535		107	62.3	9.9	26.3	7.6	45	78	55	27	3,320	32,800
7	Channel/ 207-13VT3P Brand	BT,CRW,GLY	107	59.8	9.6	23.9	7.6	42	78	54	31	3,320	31,900
8	NuTech/ 5N-197™	Bt,CRW,GLY.LL	97	54.3	9.5	20.9	8.0	38	81	55	33	3,310	31,600
9	DAIRYLAND SEED/ HiD.F. 3702-9	Bt,CRW,GLY.LL	102	58.1	9.2	21.9	7.4	38	81	54	34	3,390	31,100
10	Wensman/ W 7392GT3	Bt,CRW,GLY,LL	105	56.3	9.3	21.2	6.9	37	80	53	35	3,350	31,000
11	Producers Hybrids/ 6364GT3	Bt,CRW,GLY.LL	103	57.1	9.3	21.7	7.1	38	79	53	33	3,320	30,900
12	Trelay Seeds/ 6ST620RIB	Bt,CRW,GLY.LL	106	58.3	9.2	22.0	7.6	41	79	54	31	3,310	30,400
13	NuTech/ 5N-803™	Bt,CRW,GLY.LL	101	59.7	9.0	22.3	7.4	42	78	55	30	3,340	30,000
14	Masters Choice/ MC-527		105	56.8	8.8	20.3	7.5	36	81	53	35	3,390	29,700
15	Mycogen/ TMF 2L533	Bt,CRW,GLY.LL	101	55.3	9.1	20.4	7.4	41	79	54	31	3,240	29,600
16	Mycogen/ TMF 2H699	Bt,CRW,GLY.LL	109	61.0	8.8	22.5	7.5	42	78	54	30	3,350	29,500
17	DEKALB/ DKC56-55	Bt,CRW,GLY	106	56.3	8.9	20.4	7.2	39	80	54	33	3,310	29,500
18	NuTech/ 5N-001™	Bt,CRW,GLY.LL	101	55.8	8.9	20.2	7.3	40	80	54	32	3,280	29,300
19	Golden Harvest/ H-8211 3000GT	Bt,CRW,GLY.LL	105	56.7	9.0	20.7	7.4	41	79	54	31	3,280	29,300
20	G2 Genetics/ 5H-696™	Bt,GLY,LL	96	58.4	8.5	20.5	8.3	40	79	54	32	3,340	28,500
21	Legacy Seeds/ L-5350 3000GT	Bt,CRW,GLY.LL	104	56.0	8.6	19.7	7.3	39	79	53	33	3,280	28,400
22	Renk/ RK698VT3	Bt,CRW,GLY	104	56.3	8.4	19.3	7.7	37	80	53	33	3,350	28,300
23	Pioneer/ P0448AM1	Bt,CRW,GLY.LL	104	58.3	8.3	19.9	7.9	38	80	54	32	3,380	28,100
24	DEKALB/ DKC45-51	Bt,CRW,GLY.LL	95	60.5	8.3	21.0	8.1	43	78	54	30	3,300	27,300
25	DEKALB/ DKC48-12	Bt,CRW,GLY.LL	98	54.0	8.2	17.9	7.8	37	81	54	35	3,300	27,200
26	DEKALB/ DKC52-04	Bt,CRW,GLY	102	56.5	8.1	18.6	7.6	38	81	54	33	3,350	27,100
27	DAIRYLAND SEED/ HiD.F. 3197-7	Bt,GLY,LL	97	54.6	8.3	18.2	7.6	38	80	53	33	3,270	27,100
28	Dyna-Gro Seed/ D40SS09	Bt,CRW,GLY.LL	100	60.6	7.9	20.0	8.2	39	80	54	33	3,420	27,000
29	Dyna-Gro Seed/ D45Q50	Bt,CRW,GLY.LL	105	61.2	8.0	20.7	7.3	41	78	53	31	3,360	27,000
30	Wensman/ W 9288VT3PRO	Bt,CRW,GLY	98	56.7	8.2	18.9	7.4	40	79	54	33	3,300	27,000
31	NK Brand/ N45P-4011	Bt,CRW,GLY.LL	101	56.1	8.1	18.4	7.7	36	81	53	33	3,300	26,600
32	Kussmaul Seed/ RFS-2095 RR	GLY,LF	95	57.8	8.2	19.5	7.4	44	77	54	29	3,220	26,400
33	Trelay Seeds/ 5VP688	Bt,CRW,GLY	101	57.9	7.9	18.7	7.6	41	80	56	31	3,350	26,300
34	DEKALB/ DKC55-09	Bt,CRW,GLY.LL	105	58.2	7.9	18.9	7.9	40	79	53	31	3,310	26,100
35	G2 Genetics/ 5H-797™	Bt,GLY,LL	97	54.0	8.1	17.6	8.0	40	80	54	31	3,240	26,100
36	G2 Genetics/ 5H-902™	Bt,GLY,LL	102	54.8	8.1	17.8	8.0	40	80	53	32	3,220	26,000
37	Trelay Seeds/ 6ST576RIB	Bt,CRW,GLY.LL	104	59.4	7.6	18.6	7.7	36	82	53	34	3,430	25,900
38	DEKALB/ DKC50-66	Bt,CRW,GLY	100	56.9	7.7	17.9	7.5	39	80	54	33	3,330	25,700
39	Producers Hybrids/ 6424VT3PRO	BT,CRW,GLY	104	60.1	7.6	19.1	7.6	41	78	54	31	3,350	25,600
40	Pioneer/ P9675AMX	Bt,CRW,GLY	96	52.8	7.4	15.6	8.3	39	80	55	33	3,250	23,900
41	Masters Choice/ MC-4560		95	56.5	6.7	15.5	8.6	38	81	55	32	3,380	22,800
42	Kussmaul Seed/ RFS-905 RR	GLY,LF	105	59.0	6.8	16.6	8.2	44	79	56	28	3,300	22,500
43	Viking Seed/ 22-00Lfy		100	58.3	6.6	15.7	8.1	45	78	55	28	3,230	21,100
44	Dyna-Gro Seed/ D36SS39	Bt,CRW,GLY.LL	96	53.5	6.1	13.2	8.0	37	81	54	35	3,290	20,100
	mean			**57.5**	**8.5**	**20.2**	**7.7**	**40**	**80**	**54**	**32**	**3,320**	**28,400**
	LSD(0.10)			**3.1**	**1.9**	**4.4**	**0.6**	**4**	**2**	**2**	**4**	**170**	**5,900**
	CV			**4.7**	**19.8**	**19.1**	**5.6**	**8.4**	**2.2**	**2.7**	**7.7**	**4.7**	**19.5**

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

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

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

[4] Milk 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 corn hybrids planted at Melrose, MN (Stearns County) in 2012. Planting date: May 11, 2012; harvest date: August 29, 2012.

					Yield [2]		Quality (concentration) [3]					Milk Yield [4]	
No.	Company/ Entry	Traits [1]	RM	Moist	DM	silage	CP	NDF	IVD	NDFD	Starch	Ton	Acre
				%	- ton/ acre -				%			lb/ ton	lb/ acre
1	Wensman/ W 9288VT3PRO	Bt,CRW,GLY	98	59.8	9.8	24.3	8.2	40	79	56	31	3,390	33,100
2	Channel/ 207-13VT3P Brand	BT,CRW,GLY	107	62.5	9.6	25.5	8.6	40	79	55	31	3,420	32,800
3	Trelay Seeds/ 7VP104	Bt,CRW,GLY	107	62.8	9.1	24.6	8.4	38	81	55	32	3,490	32,000
4	DEKALB/ DKC55-09	Bt,CRW,GLY.LL	105	62.7	8.8	23.6	8.4	37	81	55	33	3,520	31,000
5	DEKALB/ DKC56-55	Bt,CRW,GLY	106	62.9	8.8	23.6	8.4	38	80	55	32	3,480	30,500
6	G2 Genetics/ 5H-902™	Bt,GLY,LL	102	61.7	8.8	22.8	8.6	38	81	55	32	3,470	30,300
7	Wensman/ W 7392GT3	Bt,CRW,GLY,LL	105	63.3	8.5	23.1	8.5	36	81	54	34	3,550	30,000
8	Pioneer/ P0448AM1	Bt,CRW,GLY.LL	104	60.2	8.7	21.8	8.7	39	79	56	31	3,420	29,800
9	Mycogen/ TMF 2H699	Bt,CRW,GLY.LL	109	66.2	8.7	25.6	8.3	46	77	59	24	3,390	29,400
10	Legacy Seeds/ L-5350 3000GT	Bt,CRW,GLY.LL	104	64.7	8.4	23.7	8.3	40	79	55	30	3,480	29,100
11	Channel/ 203-43VT3P Brand	BT,CRW,GLY	103	60.0	8.4	21.0	8.3	39	79	55	32	3,390	28,500
12	NuTech/ 5N-197™	Bt,CRW,GLY.LL	97	61.0	8.5	21.7	9.0	41	79	55	30	3,360	28,500
13	Pioneer/ P9675AMX	Bt,CRW,GLY	96	58.4	8.3	19.9	9.0	36	81	55	34	3,440	28,400
14	Legacy Seeds/ L-5810 3000GT	Bt,CRW,GLY.LL	106	63.7	8.2	22.5	8.3	40	79	55	30	3,460	28,300
15	NK Brand/ N45P-4011	Bt,CRW,GLY.LL	101	63.4	8.2	22.3	8.6	39	79	54	31	3,450	28,200
16	Renk/ RK733VT3PNDS	Bt,CRW,GLY,NDS	107	63.7	8.2	22.5	9.0	42	78	57	29	3,440	28,100
17	NuTech/ 5N-803™	Bt,CRW,GLY.LL	101	64.8	8.1	23.0	8.3	41	79	54	30	3,420	27,800
18	Producers Hybrids/ 6424VT3PRO	BT,CRW,GLY	104	62.8	8.0	21.6	9.1	41	79	57	30	3,450	27,700
19	Dyna-Gro Seed/ D40SS09	Bt,CRW,GLY.LL	100	63.5	8.1	22.2	8.5	41	79	55	29	3,420	27,700
20	G2 Genetics/ 5H-696™	Bt,GLY,LL	96	58.2	8.2	19.5	8.8	38	80	55	32	3,380	27,500
21	Golden Harvest/ H-8211 3000GT	Bt,CRW,GLY.LL	105	64.8	7.8	22.3	8.1	40	79	55	31	3,480	27,300
22	DEKALB/ DKC45-51	Bt,CRW,GLY.LL	95	61.3	8.0	20.7	8.4	41	78	56	30	3,390	27,200
23	DAIRYLAND SEED/ HiD.F. 3702-9	Bt,CRW,GLY.LL	102	63.8	7.8	21.5	8.4	40	79	56	30	3,480	27,100
24	Trelay Seeds/ 5VP688	Bt,CRW,GLY	101	59.8	7.9	19.7	8.3	38	80	55	32	3,420	27,000
25	DEKALB/ DKC48-12	Bt,CRW,GLY.LL	98	58.9	7.9	19.3	8.5	37	80	54	34	3,400	27,000
26	DEKALB/ DKC52-04	Bt,CRW,GLY	102	59.4	7.8	19.3	8.8	37	80	55	34	3,440	26,900
27	NuTech/ 5N-001™	Bt,CRW,GLY.LL	101	59.6	7.8	19.4	8.5	38	79	56	32	3,430	26,800
28	DAIRYLAND SEED/ HiD.F. 3197-7	Bt,GLY,LL	97	55.7	8.1	18.4	8.8	40	79	56	31	3,290	26,800
29	Mycogen/ TMF 2L533	Bt,CRW,GLY.LL	101	62.9	7.9	21.3	8.8	43	79	56	28	3,370	26,600
30	DEKALB/ DKC50-66	Bt,CRW,GLY	100	59.3	7.7	18.8	8.4	38	81	56	34	3,420	26,300
31	Renk/ RK698VT3	Bt,CRW,GLY	104	60.2	7.8	19.6	8.9	40	80	55	31	3,370	26,300
32	Producers Hybrids/ 6364GT3	Bt,CRW,GLY.LL	103	64.0	7.6	21.0	8.3	41	79	56	29	3,450	26,200
33	G2 Genetics/ 5H-797™	Bt,GLY,LL	97	57.7	7.9	18.6	8.8	39	79	55	32	3,340	26,200
34	Viking Seed/ 22-00Lfy		100	60.7	7.6	19.3	9.1	41	79	57	30	3,400	25,800
35	G2 Genetics/ 5H-501™	Bt,GLY,LL	101	60.4	7.5	19.0	8.4	36	80	54	33	3,410	25,600
36	Kussmaul Seed/ RFS-905 RR	GLY,LF	105	59.5	7.7	19.0	9.0	42	78	56	29	3,320	25,600
37	Masters Choice/ MC-535		107	68.0	7.4	23.2	8.6	43	79	57	27	3,430	25,500
38	Trelay Seeds/ 6ST620RIB	Bt,CRW,GLY.LL	106	61.4	7.3	18.9	8.6	37	81	55	33	3,490	25,400
39	Trelay Seeds/ 6ST576RIB	Bt,CRW,GLY.LL	104	61.7	7.4	19.2	9.0	40	79	57	29	3,450	25,400
40	Kussmaul Seed/ RFS-2095 RR	GLY,LF	95	61.1	7.5	19.3	9.0	42	78	57	28	3,380	25,400
41	Masters Choice/ MC-4560		95	56.9	7.2	16.7	8.7	32	82	55	37	3,490	25,200
42	Masters Choice/ MC-527		105	64.9	7.0	19.9	8.8	40	80	56	29	3,500	24,400
43	Dyna-Gro Seed/ D45Q50	Bt,CRW,GLY.LL	105	63.0	6.9	18.6	8.6	41	79	56	29	3,430	23,600
44	Dyna-Gro Seed/ D36SS39	Bt,CRW,GLY.LL	96	58.4	6.8	16.4	9.0	39	80	56	32	3,370	23,100
	mean			**61.6**	**8.0**	**21.0**	**8.6**	**39**	**79**	**56**	**31**	**3,430**	**27,500**
	LSD(0.10)			**2.9**	**1.1**	**3.3**	**0.4**	**3**	**1**	**2**	**4**	**180**	**4,100**
	CV			**4.0**	**11.5**	**13.3**	**3.5**	**6.6**	**1.5**	**2.4**	**7.6**	**4.4**	**12.9**

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

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

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

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

Table 5. Relative maturity (RM), whole-plant moisture (Moist), dry matter and silage yield, and quality traits for corn hybrids planted at Ottertail, MN (Otter Tail County) in 2012. Planting date: May 9, 2012; harvest date: September 5, 2012.

					Yield [2]		Quality (concentration) [3]					Milk Yield [4]	
No.	Company/ Entry	Traits [1]	RM	Moist	DM	silage	CP	NDF	IVD	NDFD	Starch	Ton	Acre
				%	- ton/ acre -				%			lb/ ton	lb/ acre
1	Rea Hybrids/ 4C970-HDS		97	61.0	10.0	25.5	6.9	43	77	52	30	3,310	33,000
2	Dyna-Gro Seed/ D45Q50	Bt,CRW,GLY.LL	105	58.5	9.5	22.9	7.2	38	79	52	35	3,390	32,200
3	Channel/ 203-43VT3P Brand	BT,CRW,GLY	103	58.8	9.3	22.5	7.5	36	80	51	36	3,430	31,800
4	Masters Choice/ MC 5250		102	61.0	9.5	24.4	7.1	42	77	52	32	3,340	31,700
5	DAIRYLAND SEED/ HiD.F. 3197-7	Bt,GLY,LL	97	58.5	9.2	22.2	7.3	41	78	53	32	3,330	30,600
6	Hyland Seeds/ SR59	GLY ,Lf	101	62.7	9.1	24.4	7.1	44	75	53	29	3,350	30,400
7	Hyland Seeds/ SR48	GLY, Lf	97	58.9	9.1	22.1	7.5	41	78	52	32	3,320	30,100
8	Rea Hybrids/ 5V781-HDS	Bt,CRW,GLY	100	61.5	9.0	23.5	7.4	44	76	53	30	3,320	30,000
9	Dyna-Gro Seed/ D40SS09	Bt,CRW,GLY.LL	100	60.0	8.8	22.1	7.2	42	77	52	31	3,320	29,300
10	Seeds 2000/ 3141 GT	GLY	104	59.5	8.6	21.2	6.8	38	78	51	34	3,400	29,200
11	Renk/ RK733VT3PNDS	Bt,CRW,GLY,NDS	107	61.0	8.6	22.1	7.3	42	78	53	31	3,370	28,900
12	Pioneer/ P9675AMX	Bt,CRW,GLY	96	56.7	8.5	19.5	8.0	38	79	53	34	3,370	28,500
13	Pioneer/ P0448AM1	Bt,CRW,GLY.LL	104	58.5	8.8	21.2	7.2	44	76	52	30	3,220	28,300
14	Hyland Seeds/ HLS 8477	Bt,CRW,GLY.LL	98	56.7	8.7	20.1	7.8	42	77	52	31	3,230	28,200
15	Masters Choice/ MC 4050		90	57.1	8.1	18.9	7.6	36	80	51	35	3,390	27,500
16	Seeds 2000/ 2903 GTCBLL	Bt,GLY,LL	90	56.8	8.2	19.0	7.5	38	79	51	34	3,320	27,200
17	Renk/ RK698VT3	Bt,CRW,GLY	104	58.6	8.1	19.7	7.1	41	77	52	32	3,310	27,000
18	Rea Hybrids/ 4V301-HDS	Bt,CRW,GLY	94	61.9	8.1	21.3	7.1	47	74	54	27	3,270	26,600
19	Dyna-Gro Seed/ D36SS39	Bt,CRW,GLY.LL	96	54.9	7.9	17.4	7.2	41	78	52	32	3,220	25,300
20	Masters Choice/ MC 4280		92	52.1	7.5	15.7	7.2	39	79	52	34	3,200	24,100
21	DAIRYLAND SEED/ HiD.F. 3702-9	Bt,CRW,GLY.LL	102	58.8	7.0	17.1	7.2	42	77	53	32	3,310	23,200
	mean			**58.7**	**8.6**	**21.1**	**7.3**	**41**	**78**	**52**	**32**	**3,320**	**28,700**
	LSD(0.10)			**3.7**	**1.4**	**4.5**	**0.6**	**3**	**2**	**2**	**4**	**ns**	**5,300**
	CV			**5.4**	**14.1**	**17.7**	**5.2**	**6.8**	**2.1**	**2.6**	**7.2**	**5.8**	**16.2**

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

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

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

[4] Milk 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 corn hybrids planted at Fergus Falls, MN (Otter Tail County) in 2012. Planting date: May 10, 2012; harvest date: September 5, 2012.

					Yield [2]		Quality (concentration) [3]					Milk Yield [4]	
No.	Company/ Entry	Traits [1]	RM	Moist	DM	silage	CP	NDF	IVD	NDFD	Starch	Ton	Acre
				%	- ton/ acre -				%			lb/ ton	lb/ acre
1	Channel/ 203-43VT3P Brand	BT,CRW,GLY	103	57.4	8.8	20.8	7.2	38	79	50	39	3,310	29,300
2	Pioneer/ P0448AM1	Bt,CRW,GLY.LL	104	58.4	8.5	20.5	7.4	42	77	51	35	3,260	27,800
3	Seeds 2000/ 2903 GTCBLL	Bt,GLY,LL	90	54.8	8.6	19.1	7.4	38	79	50	40	3,230	27,800
4	Seeds 2000/ 3141 GT	GLY	104	61.8	8.3	21.7	7.4	44	76	50	32	3,270	27,100
5	DAIRYLAND SEED/ HiD.F. 3197-7	Bt,GLY,LL	97	55.6	8.5	19.1	7.2	44	76	51	34	3,130	26,500
6	Dyna-Gro Seed/ D45Q50	Bt,CRW,GLY.LL	105	62.6	8.0	21.5	7.2	44	76	50	31	3,290	26,400
7	Pioneer/ P9675AMX	Bt,CRW,GLY	96	54.5	8.3	18.3	7.5	41	77	50	36	3,150	26,300
8	DAIRYLAND SEED/ HiD.F. 3702-9	Bt,CRW,GLY.LL	102	60.9	8.0	20.5	6.9	45	75	52	30	3,270	26,200
9	Hyland Seeds/ SR59	GLY ,Lf	101	62.6	8.0	21.4	7.2	48	74	53	27	3,250	26,100
10	Rea Hybrids/ 5V781-HDS	Bt,CRW,GLY	100	62.1	7.9	20.9	6.8	49	73	54	27	3,250	25,700
11	Renk/ RK733VT3PNDS	Bt,CRW,GLY,NDS	107	62.6	8.0	21.3	7.1	47	74	51	30	3,220	25,700
12	Masters Choice/ MC 4050		90	53.3	8.1	17.4	7.0	41	77	51	36	3,140	25,600
13	Rea Hybrids/ 4C970-HDS		97	60.1	8.1	20.4	6.5	49	74	52	29	3,140	25,500
14	Hyland Seeds/ SR48	GLY, Lf	97	55.5	8.2	18.5	7.1	45	75	51	33	3,100	25,500
15	Masters Choice/ MC 5250		102	59.9	7.6	18.9	7.1	43	77	52	34	3,300	25,100
16	Rea Hybrids/ 4V301-HDS	Bt,CRW,GLY	94	61.5	7.7	19.9	7.7	49	74	52	29	3,160	24,300
17	Renk/ RK698VT3	Bt,CRW,GLY	104	58.9	7.3	17.9	6.9	45	76	52	33	3,220	23,600
18	Hyland Seeds/ HLS 8477	Bt,CRW,GLY.LL	98	57.0	7.5	17.5	7.7	43	76	49	34	3,140	23,600
19	Dyna-Gro Seed/ D40SS09	Bt,CRW,GLY.LL	100	60.5	7.1	17.9	7.3	44	76	53	33	3,320	23,400
20	Masters Choice/ MC 4280		92	51.6	7.3	15.0	7.2	37	79	50	40	3,180	23,100
21	Dyna-Gro Seed/ D36SS39	Bt,CRW,GLY.LL	96	58.8	6.4	15.6	7.5	43	77	50	34	3,210	20,600
	mean			**58.6**	**7.9**	**19.2**	**7.2**	**44**	**76**	**51**	**33**	**3,220**	**25,500**
	LSD(0.10)			**2.8**	**ns**	**ns**	**0.6**	**4**	**2**	**ns**	**5**	**150**	**ns**
	CV			**4.1**	**18.2**	**17.8**	**5.7**	**8.6**	**2.4**	**4.5**	**10.8**	**4.4**	**18.5**

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

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

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

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

Waseca corn silage entry

No. Company/ Entry (Location)	Traits [1]	RM	Moist	Yield [2] DM	Yield [2] silage	Quality (concentrat CP	NDF	IVD	NDFD
			%	- ton/ acre -			%		
Waseca-1 (Rochester)		95	60.2	10.7	26.9	10.0	41	78	53
Waseca-1 (LaCrescent)		95	62.7	9.7	25.9	11.9	43	79	57
Waseca-1 (Hutchinson)		95	56.8	7.0	16.2	10.2	42	80	55
Waseca-1 (Melrose)		95	62.1	7.3	19.2	10.4	39	80	57
Waseca-1 (Ottertail)		95	57.5	9.7	22.9	10.5	41	78	51
Waseca-1 (Fergus Falls)		95	59.5	7.2	17.8	9.8	43	76	49

tion) [3]	Milk Yield [4]				
Starch	Ton	Acre	PP		
	lb/ ton	lb/ acre	order#	Ton	Acre
46	3,190	34,000	59	3,186	34,042
39	3,320	32,100	59	3,319	32,086
45	2,980	20,800	43	2,976	20,839
43	3,430	24,900	43	3,432	24,908
44	3,040	29,600	22	3,039	29,572
40	3,020	21,800	22	3,017	21,772