

University of Minnesota

2016 Corn Silage

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.