

## 2022 Irrigated Silage Corn Hybrid Performance Trial at Rocky Ford

Hybrid	Brand	Insect and Herbicide Technology Traits <sup>b</sup>	Yield				Forage Quality <sup>a</sup>														
			Silage <sup>c</sup> tons/ac	Dry Matter %	Yield % of test avg.	Moisture % at harvest	Relative Maturity <sup>d</sup>	Plant Population plants/ac	Plant Height in	CP	aNDFom	Lignin	Starch	Ash	Fat	NDFD			NEL Mcal/cwt	Milk/Ton lb/ton	Beef/Ton lb/ton
																30hr	240hr	TDN			
D55VC80	Dyna-Gro Seed	VT2P, RR2	<b>42.0</b>	15.3	111%	56.6	115	37,200	107	7.8	40.9	3.0	34.1	4.9	1.6	52.7	66.6	69.5	72.0	2966	211
D53SS13	Dyna-Gro Seed	STX, LL, RR2	40.2	14.7	106%	53.3	113	33,700	103	8.3	28.2	2.0	48.1	3.6	2.6	47.4	62.8	76.0	79.2	3360	267
D57TC29	Dyna-Gro Seed	TRE, RR2	39.6	14.4	104%	60.4	117	35,600	111	8.2	27.9	3.3	50.0	3.7	2.5	59.6	66.1	72.0	-	3340	-
D53TC23	Dyna-Gro Seed	TRE, RR2	39.3	14.1	104%	54.2	113	34,800	104	7.9	32.0	2.6	44.6	4.2	2.2	48.8	64.8	73.4	76.3	3198	244
8560 Q	Hoegemeyer Hybrids	Q, LL, RR2	39.3	13.8	104%	59.6	115	35,900	110	8.3	32.9	2.3	41.6	4.8	2.0	53.3	67.5	73.3	76.3	3197	253
D54SS34	Dyna-Gro Seed	STX, LL, RR2	39.0	14.4	103%	58.3	114	36,300	107	8.0	31.1	2.3	45.9	3.9	2.6	48.4	63.9	74.0	77.1	3270	255
D50VC09	Dyna-Gro Seed	VT2P, RR2	36.9	13.5	97%	54.7	110	34,600	104	7.6	31.9	2.0	46.2	4.0	2.2	50.1	66.8	73.9	76.9	3232	255
8370 AM	Hoegemeyer Hybrids	AM, LL, RR2	36.9	13.2	97%	55.6	113	34,100	109	7.9	34.5	2.3	41.5	4.6	1.9	52.5	68.2	72.6	75.4	3158	244
7843 AM	Hoegemeyer Hybrids	AM, LL, RR2	36.6	13.5	96%	54.3	108	36,300	107	8.2	31.8	2.6	42.8	4.6	2.1	48.6	64.3	73.9	76.9	3172	240
8052 Q	Hoegemeyer Hybrids	Q, LL, RR2	35.7	12.6	94%	59.0	110	35,000	105	8.1	39.0	2.7	33.8	5.2	1.9	54.4	66.9	70.6	73.2	3061	225
D52SS82	Dyna-Gro Seed	STX, LL, RR2	35.7	12.9	94%	58.2	112	33,100	110	8.4	32.5	2.1	41.7	5.0	2.1	51.7	66.1	73.1	76.0	3169	246
D54SS74	Dyna-Gro Seed	STX, LL, RR2	34.2	12.6	90%	56.8	114	34,900	100	8.2	34.1	2.8	41.6	4.3	2.2	50.2	65.0	72.7	75.6	3177	240
<b>Average</b>			<b>38.0</b>	<b>13.8</b>	<b>100%</b>	<b>56.7</b>	<b>113</b>	<b>35,125</b>	<b>106</b>	<b>8.1</b>	<b>33.1</b>	<b>2.5</b>	<b>42.7</b>	<b>4.4</b>	<b>2.1</b>	<b>51.5</b>	<b>65.7</b>	<b>72.9</b>	<b>75.9</b>	<b>3192</b>	<b>244</b>
°LSD (0.30)			1.5																		
°LSD (0.05)			3.0																		

<sup>a</sup>All forage quality analyses results are dry basis values. CP=crude protein; aNDFom=ash free neutral detergent fiber; NDFD=neutral detergent fiber digestibility; TDN=total digestible nutrients; NEL=net energy for lactation; Milk/ton=predicted amount of milk produced per ton of silage dry matter calculated using MILK2006; Beef/ton=predicted amount of beef produced per ton of silage dry matter calculated using ISU Beef.

<sup>b</sup>Technology trait designations: AM=AcreMax; LL=LibertyLink; Q=QROME; RR2=Roundup Ready 2; STX=SmartStax; TRE=Trecepta; VT2P=VecTran Double Protection.

For a list of specific pests controlled by each trait, please click [here](#).

<sup>c</sup>Silage yield adjusted to 65% moisture content based on dried samples. Hybrids are grouped by relative maturity and then ranked by yield (highest to lowest). Hybrid yields in bold are in the top LSD group for the trial (0.30).

<sup>d</sup>Relative maturity is provided by the respective companies and is the approximate time from planting to harvest maturity. The method of calculation of the relative maturity ratings may vary among companies.

<sup>e</sup>Farmers selecting a hybrid based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding hybrids are the same when they are actually different). Companies or researchers may be interested in the LSD (.05) to avoid false positive conclusions (concluding hybrids are different when they are actually the same).

### Site Information

Collaborator: CSU Arkansas Valley Research Center (Kevin Tanabe and Lane Simmons)  
 Planting Date: April 28, 2022  
 Harvest Date: September 14, 2022  
 Fertilizer: N at 230, P at 28, and K at 3.5 lb/ac  
 Herbicide: Mad Dog Plus at 1 qt/ac and Starane at 3.75 pt/ac  
 Soil Type: Rocky Ford silty clay loam  
 GPS Coordinates: 38.0389, -103.6933

*The data included in this table may not be republished without permission. Contact Sally Jones-Diamond at sally.jones@colostate.edu.*