



2021 Irrigated Corn Silage Hybrid Performance Trial at Fruita

Hybrid	Brand	Insect and Herbicide Technology Traits ^b	Yield				Relative Maturity ^d	Plant Population	Plant Height	Forage Quality ^a											
			Silage ^c	Dry Matter	Yield	Moisture				NDFD		NDFD									
										tons/ac	% of test avg.	% at harvest	CP	aNDFom	Lignin	Starch	Ash	Fat	30hr	240hr	TDN
D58VC90	Dyna-Gro Seed	VT2P, RR2	30.6	10.7	120	60.8	118	40,900	117	8.3	40.0	4.1	30.4	4.4	2.6	56.8	69.1	70.7	73.3	3,181	247
D55VC80	Dyna-Gro Seed	VT2P, RR2	29.4	10.3	115	57.4	115	42,700	113	8.0	38.3	4.0	34.9	4.3	2.6	58.3	69.5	71.2	73.9	3,261	259
D58QC72	Dyna-Gro Seed	3110, LL, RR2	25.2	8.9	99	59.0	118	40,300	118	8.7	33.7	3.5	39.3	4.1	3.0	55.7	68.7	73.5	76.4	3,341	271
D57VC17	Dyna-Gro Seed	VT2P, RR2	25.2	8.8	99	58.5	117	42,900	110	7.6	39.4	4.0	32.9	4.5	2.6	59.3	69.0	70.9	73.5	3,240	255
11286	Allegiant	STX, LL, RR2	24.3	8.5	95	57.4	112	43,600	104	8.1	43.7	4.7	27.0	4.9	2.3	55.7	67.3	68.6	71.0	3,011	218
11395	Allegiant	STX, LL, RR2	22.8	8.0	89	55.9	113	38,200	115	8.4	36.5	3.6	35.1	4.4	3.2	57.6	69.5	72.1	74.9	3,286	266
D52DC82	Dyna-Gro Seed	VT2PRIB, RR2	21.3	7.4	83	61.7	112	39,300	112	7.6	34.5	3.6	38.9	4.1	2.6	56.7	67.9	72.9	75.8	3,335	265
Average			25.5	9.0		58.7	115	41,100	113	8.1	38.0	3.9	34.1	4.4	2.7	57.2	68.7	71.4	74.1	3,236	254
°LSD (0.30)			1.4																		
°LSD (0.05)			2.7																		

^aAll 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.

^bTechnology trait designations: 3110=Agrisure Viptera 3110; LL=LibertyLink; RR2=Roundup Ready 2; STX=SmartStax; VT2P=VecTran Double Protection; VT2PRIB=VecTran Double Protection Refuge in the Bag Complete. For a list of specific pests controlled by each trait, please click [here](#).

^cSilage yield adjusted to 65% moisture content based on dried samples. Hybrids are ranked by yield (highest to lowest). Hybrid yields in bold are in the top LSD group for the trial (0.30).

^dRelative maturities are provided by the companies. Comparative relative maturities.

^eIf the difference between two variety yields equals or exceeds the LSD value, the difference is significant. Farmers selecting a variety based on yield should use the LSD (0.30) to protect from false negative decisions. Companies or researchers may be interested in the LSD (0.05) to avoid false positive conclusions.

Site Information

Collaborator: CSU Western Colorado Research Center (Perry Cabot and Jim Fry)
 Planting Date: May 18, 2021
 Harvest Date: September 23, 2021
 Weed Control: Glyphosate and two cultivations
 Fertilizer: N at 104, P at 38, K at 100, and S at 36 lb/ac
 Soil Type: Sandy clay loam
 Trial Coordinates: 39.17965, -108.69957