



2021 Irrigated Corn Silage Hybrid Performance Trial at Rocky Ford

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				CP	aNDFom	Lignin	Starch	Ash	Fat	NDFD 30hr	NDFD 240hr	TDN	NEL	Milk/To n	Beef/Ton	
			tons/ac	% of test avg.	% at harvest	% at harvest	plants/ac	in	percent											Mcal/cwt	lb/ton	lb/ton
114-118 Relative Maturity																						
D58QC72	Dyna-Gro Seed	3110, LL, RR2	36.6	13.2	110	66.2	118	35,200	116	8.0	42.3	4.5	31.6	4.6	2.0	55.1	67.8	68.9	71.3	3,041	228	
D55VC80	Dyna-Gro Seed	VT2P, RR2	34.8	12.9	105	60.2	115	36,000	106	6.9	37.4	3.7	39.3	4.2	2.2	57.2	69.9	71.5	74.2	3,247	258	
8750 AML	Hoegemeyer Hybrids	AML, LL, RR2	34.5	12.3	104	63.4	117	34,500	111	7.8	31.0	3.3	46.3	3.9	2.7	54.0	70.3	74.7	77.8	3,393	282	
D58VC90	Dyna-Gro Seed	VT2P, RR2	34.2	12.6	103	65.6	118	34,500	108	8.2	39.3	4.5	36.1	4.5	2.1	50.8	66.3	70.1	72.7	3,021	221	
8637 Q	Hoegemeyer Hybrids	Q, LL, RR2	33.0	12.0	99	64.4	116	33,600	105	8.1	37.2	4.2	38.3	4.9	2.1	56.4	68.6	71.0	73.7	3,166	244	
D57VC17	Dyna-Gro Seed	VT2P, RR2	32.1	11.7	96	62.3	117	36,800	107	7.2	36.7	3.5	40.9	4.0	2.2	54.4	69.9	71.7	74.5	3,208	256	
8707 AM	Hoegemeyer Hybrids	AM, LL, RR2	31.8	11.4	95	64.1	117	32,800	109	7.5	37.6	3.5	37.0	4.2	2.3	58.5	72.5	72.0	74.8	3,291	268	
NK1460	NK Seed	5222, RR2	31.5	11.4	95	63.1	114	33,900	109	7.3	37.9	3.4	39.1	4.2	2.0	56.8	72.1	71.7	74.5	3,213	258	
108-113 Relative Maturity																						
D52DC82	Dyna-Gro Seed	VT2PRIB, RR2	35.4	12.9	106	64.4	112	35,600	107	7.6	34.7	3.5	40.4	4.8	2.1	57.5	70.7	72.5	75.4	3,276	262	
11395	Allegiant	STX, LL, RR2	34.5	12.3	104	59.1	113	35,400	108	7.6	39.1	3.9	37.4	4.2	2.2	55.0	69.7	70.8	73.5	3,163	248	
NK1239	NK Seed	5122, RR2	34.5	12.3	104	62.1	112	34,600	114	7.7	36.9	3.8	40.7	4.1	2.1	51.8	67.2	71.8	74.6	3,137	238	
8371 AML	Hoegemeyer Hybrids	AML, LL, RR2	33.6	12.3	101	64.6	113	35,200	108	7.9	35.4	3.8	40.5	4.5	2.0	52.7	68.8	72.2	75.0	3,175	244	
NK1082	NK Seed	5222, RR2	33.3	12.3	100	65.3	110	35,300	108	7.2	40.9	3.5	33.6	4.7	1.9	57.7	73.6	70.6	73.3	3,136	248	
8188 Q	Hoegemeyer Hybrids	STX, LL, RR2	32.4	11.7	97	64.0	111	34,300	103	8.5	39.9	4.2	33.7	5.2	1.9	57.2	72.2	69.6	72.1	3,096	242	
NK0821	NK Seed	5122, RR2	30.9	11.1	93	66.5	108	33,200	102	7.6	36.4	3.4	39.0	4.3	2.3	59.2	73.9	72.6	75.5	3,337	275	
11286	Allegiant	STX, LL, RR2	29.7	10.5	89	62.0	112	33,100	101	8.0	39.0	4.3	37.4	4.5	2.0	53.1	69.1	70.8	73.4	3,088	233	
Average			33.3	12.1		63.6	114	34,600	107	7.7	37.6	3.8	38.2	4.4	2.1	55.4	70.2	71.4	74.1	3,187	250	
°LSD (0.30)			1.3																			
°LSD (0.05)			2.5																			

^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; 5122=Agrisure Duracade 5122 E-Z Refuge; 5222=Agrisure Duracade 5222 E-Z Refuge; AM=AcreMax; AML=AcreMax Leptra; LL=LibertyLink; RR2=Roundup Ready 2; Q=QROME; 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 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).

^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 Arkansas Valley Research Center (Kevin Tanabe, Lane Simmons, and Mike Bartolo)
 Planting Date: May 14, 2021
 Harvest Date: September 10, 2021
 Herbicide: Status at 7 oz/ac and Mad Dog Plus at 32 oz/ac applied on 6/14/2021
 Fertilizer: N at 160, P at 40, K at 22, S at 28, and Zn at 2 lb/ac
 Soil Type: Rocky Ford silty clay loam
 Trial Coordinates: 38.0389, -103.6933

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