



2020 Irrigated Corn Silage Hybrid
Performance Trial at Fruita

Brand	Hybrid	Yield				Moisture	Relative Maturity ^b	Plant Population	Forage Quality										
		Silage ^a	Dry Matter	Yield	% of test avg. % at harvest				CP	aNDFom	Lignin	Starch	Ash	Fat	NDFD 30hr	NDFD 240hr	TDN	NEL	Milk/Ton
Dyna-Gro Seed	D57TC19	30.2	10.7	121	67.4	117	36,852	6.3	37.4	3.2	37.6	5.5	3.1	56.4	70.0	71.8	74.6	3,469	245
Dyna-Gro Seed	D52DC82	27.1	9.4	108	66.1	112	35,284	6.3	37.1	2.9	37.7	5.4	2.8	59.3	72.7	72.4	75.2	3,538	259
Dyna-Gro Seed	D57VC17	26.9	9.3	107	64.8	117	36,460	5.8	40.6	3.5	34.7	5.3	2.8	56.4	70.3	70.6	73.3	3,367	234
Dyna-Gro Seed	D55VC80	26.1	9.0	104	63.3	115	35,676	6.0	38.4	3.1	38.7	5.2	3.1	59.3	72.3	71.6	74.4	3,487	260
Allegiant	11395	26.1	9.2	104	65.9	113	36,852	6.2	38.9	3.3	37.0	5.4	3.1	58.4	71.4	71.4	74.2	3,475	249
Dyna-Gro Seed	D54VC14	26.0	9.0	104	67.4	114	35,676	6.2	38.2	3.4	37.1	5.9	3.1	55.4	69.5	71.4	74.1	3,398	233
Dyna-Gro Seed	D58VC90	25.8	8.7	103	68.8	118	35,676	5.9	40.0	3.5	35.3	5.8	3.0	56.0	70.1	70.6	73.2	3,357	230
NK Seed	NK1239-5122	25.6	9.1	102	64.1	112	36,068	6.2	38.6	3.2	38.3	5.1	2.9	57.0	71.0	71.6	74.3	3,465	247
Allegiant	10552	25.2	8.9	101	62.4	105	36,460	6.1	36.0	2.9	41.0	5.2	3.0	57.9	71.5	72.7	75.6	3,518	259
Dyna-Gro Seed	D58VC65	24.4	8.4	97	67.8	118	35,676	5.8	41.9	3.9	34.1	5.7	2.8	54.8	69.1	69.6	72.1	3,259	217
Allegiant	11186	24.0	8.3	96	65.4	111	37,244	5.6	40.9	3.2	36.2	5.2	2.8	60.5	73.1	70.8	73.4	3,493	254
NK Seed	NK9930-5122	23.9	8.3	95	57.9	99	36,460	6.3	36.5	3.0	41.0	4.9	3.3	57.9	71.2	72.8	75.7	3,389	266
NK Seed	NK0440-3122	22.9	7.9	91	64.5	104	37,244	5.8	38.9	2.9	38.9	5.2	2.9	60.7	73.9	71.6	74.3	3,559	262
Dyna-Gro Seed	D53TC19	22.8	8.1	91	67.3	113	37,636	6.0	41.6	3.4	33.8	5.8	2.8	59.4	72.1	70.0	72.6	3,375	240
Dyna-Gro Seed	D53VC33	22.8	7.8	91	63.9	113	36,068	6.2	36.3	2.9	40.0	4.9	3.3	60.4	72.2	72.8	75.7	3,639	273
Allegiant	10747	20.8	7.3	83	64.0	107	35,284	6.4	34.9	3.0	41.2	5.6	2.9	57.1	70.5	73.0	75.9	3,530	252
Average		25.0	8.7		65.1	112	36,288	6.1	38.5	3.2	37.7	5.4	3.0	57.9	71.3	71.5	74.3	3,457	249

^aLSD (P<0.30)

1.7

^cLSD (P<0.05)

3.2

^aSilage yield adjusted to 65% moisture content based on dried samples.

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

^cIf the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant. Hybrid yields in the top yield group (P<0.30) are in bold. Farmers should use the LSD (P<0.30) for selecting superior hybrids to minimize economic loss due to false negative results and others may use LSD (P<0.05) to minimize the risk of false positive results.

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.

Site Information

Collaborator: Fruita Research Station (Reza Keshavarz Afshar)

Planting Date: May 5, 2020

Harvest Date: September 14, 2020

Previous Crop: Winter Wheat

Herbicide: Preplant: Cinch at 26 oz/ac and gramaxone at 32 oz/ac

Post-Emerge: glyphosate at 28 oz/ac

Insecticide: Onager miticide applied July 3 at 10 oz/ac

Fertilizer: Pre-plant incorporated: N at 75, P at 94, K at 60, and S at 22 lb/ac in March

Side-dress: N at 200 lb/ac (applied as UAN) on June 9

Irrigation: Furrow irrigated

Soil Texture: Silty clay (12% sand, 40% silt, 48% clay)