

Results from the 2021 Summer Corn hybrid test

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FORAGE TEAM

Company	Hybrid	Relative Maturity	Total Production	Estimated silage production (35% DM)	Milk production		Disease score‡	DM% at harvest	NE _i
					per ton	per acre			
			<i>lb DM/A</i>	<i>Ton silage /A</i>	<i>lb milk/ton silage</i>	<i>lb milk/A</i>			<i>Mcal/lb DM</i>
Augusta Seed	A1367-3220GT	117	11851	16.9	3284	19522 <i>n.s</i>	0.3	39%	0.70
Augusta Seed	A4467-DC5222	117	10663	15.2	3389	18096	0.8	37%	0.71
Greenpoint Ag	5678vt2p	116	11947	17.1	3375	20220	0.1	40%	0.71
Greenpoint Ag	5900vt2p	119	11802	16.9	3429	20255	1.6 *	48% *	0.72
Local Seed	LC1506 VT2P	115	9760	13.9	3432	16761	0.3	42%	0.72
Local Seed	LC1616 TC	116	11885	17.0	3487	20717	0.1	38%	0.72
Local Seed	LC1688 SSXRIB	116	10757	15.4	3548	19073	0.3	41%	0.73
Local Seed	LC1707 VT2P	117	11066	15.8	3387	18756	0.5	45% *	0.71
Local Seed	LC1919 VT2P	119	13170 *	18.8 *	3536	23281 *	1.4 *	48% *	0.73
Pioneer	P1847VYHR	118	13315 *	19.0 *	3502	23376 *	1.4 *	46% *	0.73
Pioneer	P1903YHR	119	10991	15.7	3494	19112	1.6 *	46% *	0.73
Pioneer	P30F35VYHR	135	13543 *	19.3 *	3414	23101 *	0.6	46% *	0.71
Progeny Ag	PGY 2118VT2P	118	11486	16.4	3439	19736	1.6 *	54% *	0.72
Progeny Ag	PGY 8116SS	116	10606	15.2	3340	17707	0.8	40%	0.71
Progeny Ag	PGY 9117VT2P	117	11448	16.4	3330	19071	0.4	38%	0.70
Sun Prairie Seeds	SP3517	116	9763	13.9	3598 *	17566	0.4	40%	0.74 *
Syngenta Seeds	NK1661-3120A	116	9765	14.0	3233	15852	2.1 *	42%	0.69
Syngenta Seeds	NK1677-3110	116	12010	17.2	3401	20547	0.4	39%	0.71
Syngenta Seeds	NK1748-3110	117	11297	16.1	3335	18865	0.5	37%	0.70
Syngenta Seeds	NK1808-3111	118	11860	16.9	3447	20431	1.4 *	47% *	0.72
Mean	Mean		11449	16.4	3420	19602	0.8	43%	0.72
SE	SE		761	1.1	73	1458	0.2	1%	0.01

* Indicates hybrids that performed similarly to the best hybrid, according to F-test at p<0.05; n.s. means no statistical difference between hybrids. All mean reported are least square means.

§Hybrids marked with "***" are on the top right quadrant of the production chart, with superior biomass production and superior milk production per ton of silage compared to averages.

‡ Disease score - low values mean less disease incidence; * Indicates hybrids with the most incidence of disease.

Parameters:

Disease score: 0 = no disease 3 = heavy disease (>75% incidence)

'Milk per ton of silage' and 'Milk per acre of silage yield' were calculated using the Milk2006 formulas from the University of Wisconsin

DM, dry matter (%); NEL, net energy for lactation (Mcal/lb DM)

Company	Hybrid	TDN	CP	Starch	WSC	aNDF	dNDF30	NDFD30	Top performing (chart) [§]
Augusta Seed	A1367-3220GT	71.4	8.4	36.8	7.5	22.7	40.0	57.1	
Augusta Seed	A4467-DC5222	73.0	9.2 *	36.2	7.7	21.2	38.1	60.7	
Greenpoint Ag	5678vt2p	72.6	8.8	37.6	7.9	21.0	37.5	58.3	
Greenpoint Ag	5900vt2p	73.3	8.3	35.7	8.4	20.6	37.6	59.3	**
Local Seed	LC1506 VT2P	73.3	8.6	38.8	8.0	21.0	37.4	59.4	
Local Seed	LC1616 TC	74.4	8.8	36.5	7.9	20.3	37.6	62.3	**
Local Seed	LC1688 SSXRIB	74.9	9.0 *	40.4	8.0	19.0	33.5	62.3	
Local Seed	LC1707 VT2P	73.0	8.4	36.3	7.6	22.2	40.7	60.5	
Local Seed	LC1919 VT2P	74.8	8.3	38.0	8.0	18.6	35.4	62.0	**
Pioneer	P1847VYHR	74.5	8.0	38.0	8.0	20.3	37.1	61.6	**
Pioneer	P1903YHR	74.3	8.0	38.5	7.8	19.4	35.8	61.3	
Pioneer	P30F35VYHR	73.3	8.9 *	31.7	9.2 *	21.4	39.8	60.6	
Progeny Ag	PGY 2118VT2P	73.7	8.0	36.5	7.3	20.7	38.4	61.3	**
Progeny Ag	PGY 8116SS	72.1	9.1 *	36.9	7.5	21.4	38.5	57.4	
Progeny Ag	PGY 9117VT2P	72.3	9.0 *	32.6	8.0	23.0	41.2	60.3	
Sun Prairie Seeds	SP3517	75.5 *	8.5	41.7 *	8.8 *	18.5	33.6	61.6	
Syngenta Seeds	NK1661-3120A	70.8	8.0	37.7	6.9	23.9 *	41.7 *	57.5	
Syngenta Seeds	NK1677-3110	73.2	9.1 *	35.5	8.4	21.7	38.8	60.9	
Syngenta Seeds	NK1748-3110	72.4	9.1 *	34.0	7.9	22.9	40.6	60.4	
Syngenta Seeds	NK1808-3111	73.5	7.6	40.1	7.5	19.8	36.3	59.4	**
Mean	Mean	73.3	8.5	37.0	7.9	21.0	38.0	60.2	
SE	SE	0.9	0.2	2.4	0.3	1.1	1.9	1.1	

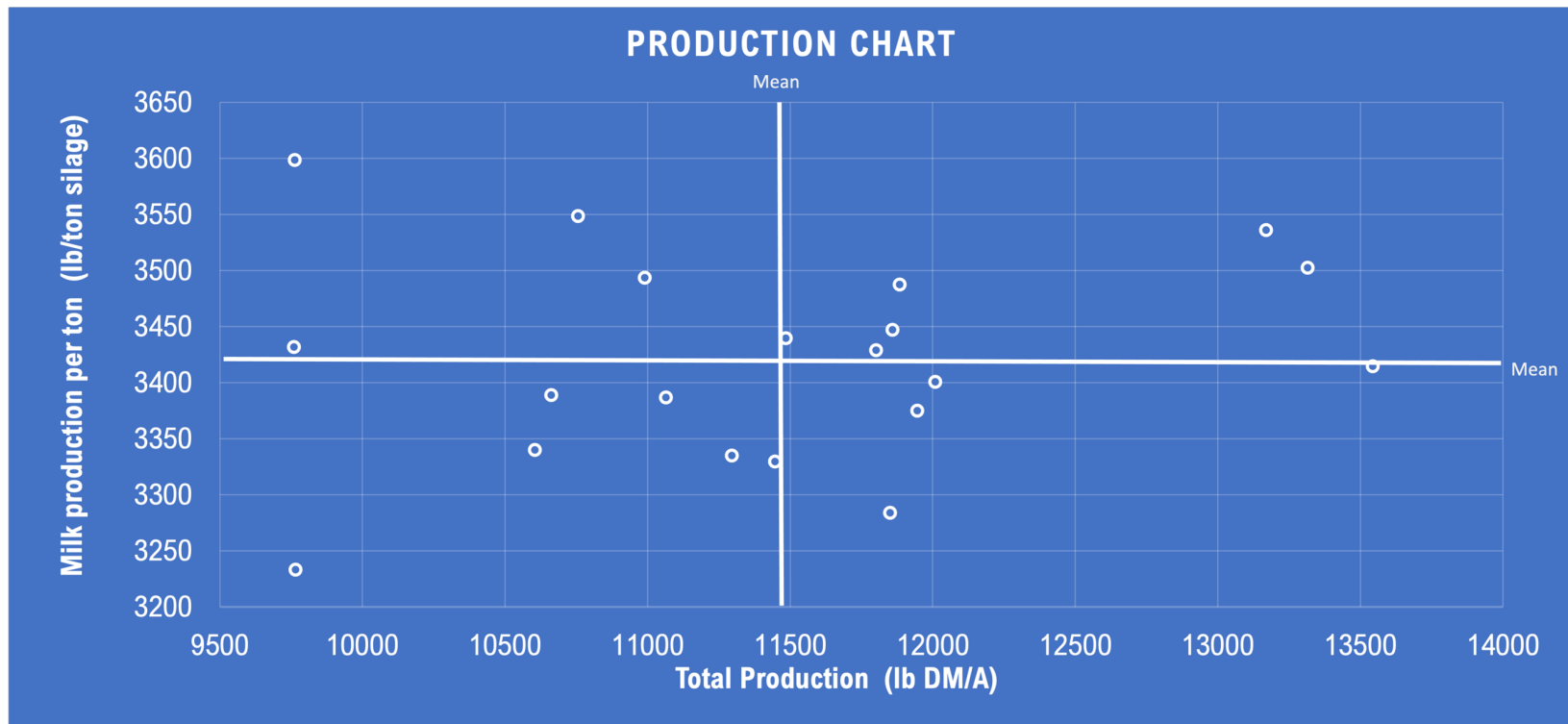
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Parameters:

TTDN, total digestible nutrients (% DM); CP, crude protein (% DM), IVTDMD30, in vitro true dry matter digestibility at 30h in rumen (% DM); starch (% DM); WSC, water soluble carbohydrates (% DM); ADF, acid detergent fiber (% DM); dNDF30, digestible NDF at 30 h in rumen; NDFD30, NDF digestibility (as % of NDF) at 30 h in rumen



Disclosure

This hybrid test is conducted independently by UF/IFAS faculty and is open for all seed companies to enter hybrids for the test.

Management information

Trial was conducted at the Plant Science Research and Education Unit, in Citra, FL

Planting date July 13th, 2021

Planting rate was 30,628 seeds/Acre, 30-inch rows.

Fertilizer Application LBS/Acre -N 270; P 56; K 211; Mg 16; S 36; Mn 10; Zn 4; divided in pre-incorporated, starter and 4 other applications; Last applications over irrigation

Pesticide application – Counter at planting, with Athrazine, Prowl and Dual; Tebustar, Headline at 30-inch plant height, and Headline Amp at tasseling; Insecticide as needed, total 6 applications (Coragen, Besiege, Warrior and Belt)

Trial was irrigated as needed

Harvest occurred between October 13th and 19th, 2021

Contact

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