

Penn State/PDMP Corn Silage Hybrid Testing Program 2018



Late maturity (110-119 day RM) silage hybrids in South Central PA

Combined hybrid performance over Juniata and Lancaster Counties

Notes: Zugstead Farms had some denitrification. Despite the persistent rain in Landisville from mid-July through harvest, yield levels were very good. Meadow Vista Dairy had very good stand counts and performance was very good.

Cooperator: Zugstead Farms, Landisville Research Farm, and Meadow Vista Dairy

Brand	Hybrid	Traits*	Dry		Yield								NDFD			uNDF	Pop. plants/ac	Relative Maturity
			Matter %**	Tons/Acre***	CP %	NDF %	Lignin %	Starch %	Ash %	Fat ² %	NEL Mcal/lb	30hr %NDF	120hr %NDF	240hr %NDF	240hr %NDF			
Medium Late (110-115 day) RM Silage Hybrids																		
Growmark FS	FS 65R87VT2P	30	40.5	19.3	7.9	30.8	2.6	43.9	2.6	3.4	0.81	57.6	64.8	67.3	32.7	32,519	115	
Dekalb	DKC62-20RIB	30	40.4	18.4	7.5	34.3	2.7	40.1	2.9	3.0	0.79	57.3	66.3	68.6	31.4	34,000	112	
Prairie Hybrids	8759	Conv.	39.4	19.5	7.6	36.2	2.6	38.0	3.1	2.7	0.77	58.5	68.4	70.9	29.1	33,556	114	
Syngenta	NK1452-3120	6	39.3	18.4	7.3	32.2	2.4	41.8	2.7	3.2	0.80	58.6	67.7	70.1	29.9	33,611	114	
Prairie Hybrids	7387	Conv.	39.2	17.1	8.4	34.5	2.5	37.6	2.9	3.1	0.79	59.8	67.1	69.4	30.6	33,500	112	
Growmark FS	FS 62R43VT2P	30	38.9	18.7	7.7	35.9	2.8	38.0	2.8	3.0	0.78	57.4	65.9	67.6	32.4	32,833	112	
Agrigold	A641-78STXRIB	32	38.6	18.9	7.8	36.7	3.0	36.7	3.1	3.0	0.77	55.1	64.3	66.7	33.3	33,667	111	
Augusta	Augusta 1564	3	38.6	19.3	8.0	37.2	2.7	35.4	2.7	2.7	0.77	58.5	66.6	68.9	31.1	33,444	114	
Syngenta	NK1263-3220A	8	38.4	17.1	8.2	35.8	2.9	37.2	3.2	3.0	0.78	55.6	63.9	65.4	34.6	33,500	112	
CPS Dynagro	D52VC63	30	38.2	18.5	7.8	37.8	2.8	35.7	2.8	2.9	0.77	57.9	65.5	68.0	32.0	33,556	112	
Growmark FS	FS 63R85SS	32	37.7	19.0	8.1	36.6	2.9	36.4	2.9	3.0	0.77	57.0	64.7	67.0	33.0	33,333	113	
Augusta	Augusta 1064	Conv.	37.7	18.8	7.5	37.0	2.7	37.0	3.2	2.6	0.77	57.6	67.7	70.0	30.0	32,444	114	
Syngenta	NK1573-3110	4	37.7	18.2	7.8	34.0	2.7	39.6	3.1	3.1	0.79	57.4	65.9	69.5	30.5	33,278	115	
Local Seed Co.	LS1497	Conv.	37.5	17.5	7.5	37.2	2.7	36.8	3.2	2.7	0.77	56.7	67.0	69.4	30.6	33,444	114	
Dupont Pioneer	P1442AM	26	37.4	19.2	8.3	35.4	2.8	37.2	3.1	3.1	0.78	57.1	65.8	68.1	31.9	33,500	114	
Seedway	SW7000	Conv.	37.3	17.6	7.5	37.0	2.7	37.5	3.0	2.7	0.77	57.8	67.2	69.6	30.4	31,305	114	
Doebler's PA Hybrids	5518AM	20	37.1	18.8	7.9	36.3	2.6	36.4	2.8	2.9	0.78	59.3	67.9	70.3	29.7	32,056	115	
Agrigold	A6652STXRIB	32	37.1	19.3	7.5	36.0	2.6	38.2	2.7	2.9	0.78	58.2	67.4	69.8	30.2	33,056	115	
Masters Choice	MCT6363	3	37.0	17.6	7.8	34.9	2.7	37.0	2.8	3.1	0.79	57.5	65.4	67.7	32.3	32,167	113	
Local Seed Co.	LC1349 SSXRIB	32	37.0	17.8	7.9	36.4	2.8	35.6	2.9	3.0	0.78	56.3	64.3	66.5	33.5	31,713	113	
Mid-Atlantic	MA8159	32	36.8	18.7	7.9	37.3	2.8	35.1	2.9	2.9	0.77	57.7	66.5	68.9	31.1	33,611	115	
Hubner	H6755RCSS	32	36.7	19.1	7.5	35.4	2.6	38.1	2.9	3.0	0.79	58.7	67.9	70.3	29.7	33,389	114	
Dupont Pioneer	P1422AMXT	26	36.7	18.0	8.4	35.2	2.7	37.4	3.1	2.9	0.78	58.4	67.0	69.4	30.6	33,278	114	
Syngenta	NK1284-3220	8	36.6	15.3	7.3	41.6	3.1	31.6	3.5	2.6	0.74	55.4	65.7	68.0	32.0	33,667	112	
Hubner	H6663RCSP	32	36.5	20.0	7.7	33.4	2.6	39.8	2.9	3.2	0.80	57.8	66.2	68.6	31.4	33,778	113	
Mycogen	TMF2H747	32	36.4	18.5	7.2	38.8	3.0	35.8	3.0	2.7	0.76	55.7	66.2	68.5	31.5	32,722	113	
Seedway	SW7560	32	36.4	18.0	7.8	37.0	3.0	35.1	3.0	3.1	0.77	55.5	62.8	65.3	34.8	32,944	115	
Augusta	Augusta 1165	30	36.3	19.3	7.7	37.8	2.8	34.5	2.8	3.1	0.77	58.5	66.0	68.3	31.7	33,097	115	
Augusta	Augusta 5065	5	36.2	18.8	8.5	36.1	2.7	34.4	3.0	2.8	0.78	59.0	66.4	68.8	31.2	31,389	115	
Masters Choice	MCT6552	4	36.2	18.6	7.9	31.5	2.6	40.2	3.0	2.9	0.80	57.7	66.7	69.0	31.0	32,833	115	
Mid-Atlantic	MA8150	31	36.2	17.0	7.6	37.0	2.7	36.2	3.1	2.8	0.77	58.2	67.4	69.7	30.3	31,111	115	
Agrigold	A6573VT2RIB	30	36.2	17.8	8.1	34.8	2.6	36.7	3.1	3.0	0.79	58.8	67.3	69.8	30.2	33,833	114	
Doebler's PA Hybrids	5018AM	20	36.1	18.0	7.5	37.2	2.6	35.2	3.0	2.7	0.77	60.0	69.9	72.4	27.6	33,889	110	
Dekalb	DKC62-53RIB	30	36.0	17.0	8.0	35.3	2.7	37.8	2.8	3.2	0.79	58.8	66.1	68.5	31.5	33,722	112	
Doebler's PA Hybrids	5818AM	20	35.9	17.2	8.1	38.5	3.1	33.4	3.3	2.9	0.76	55.5	64.6	66.8	33.2	33,611	115	
Dekalb	DKC64-35RIB	30	35.9	16.7	7.9	38.3	3.0	33.9	3.1	2.9	0.76	56.5	64.1	66.4	33.6	32,167	114	
Dupont Pioneer	P1847AML	23	35.7	18.9	7.9	36.2	2.6	35.9	2.8	2.8	0.78	60.8	69.6	72.1	27.9	33,167	115	
Seedway	SW6999	3	35.5	18.3	7.8	38.9	2.7	34.3	3.1	2.8	0.77	59.8	68.5	70.9	29.1	32,722	114	
Agrigold	A641-06STX	32	35.4	19.2	8.3	36.3	2.6	35.3	3.0	3.0	0.78	60.3	68.3	70.7	29.3	32,556	111	
Hubner	H6624RCSS	32	34.7	18.9	8.1	36.2	2.7	36.0	3.1	3.0	0.78	58.3	66.6	69.0	31.0	34,000	112	
Augusta	Augusta 5663	3	34.5	17.2	8.3	38.4	2.9	32.5	3.4	2.9	0.76	57.3	65.0	67.3	32.7	32,436	113	
Mycogen	TMF14R77	32	32.4	18.9	7.8	37.7	2.8	33.5	3.2	2.7	0.77	57.3	66.3	68.7	31.3	33,444	114	
	110-115 day means		37.0	18.3	7.8	36.2	2.7	36.6	3.0	2.9	0.78	57.8	66.4	68.8	31.2	33,044		
Late (116-119 day) RM Silage Hybrids																		
Dekalb	DKC67-44RIB	30	39.7	19.8	8.0	33.7	2.6	39.9	2.6	3.2	0.8	58.6	66.5	68.8	31.2	33,444	117	
Mid-Atlantic	MA8163	32	37.7	19.3	8.2	34.8	2.8	38.4	2.8	3.2	0.79	57.4	64.9	67.2	32.8	32,722	116	
Chemgro	Chemgro 7658G3	3	36.5	18.7	7.9	38.6	2.7	34.3	3.0	2.9	0.77	59.8	68.5	70.9	29.1	33,333	116	
Agrigold	A646-12STXRIB	32	35.8	18.4	8.1	36.0	2.9	36.0	3.0	3.1	0.78	55.7	63.9	66.1	33.9	33,278	116	
Masters Choice	MCT6653	3	35.6	18.6	8.0	37.8	2.9	33.7	3.1	2.8	0.77	57.9	65.6	67.9	32.1	32,333	116	
Channel	219-77STXRIB	32	35.5	20.1	7.9	35.4	2.7	36.6	3.0	2.8	0.78	57.6	65.8	68.1	31.9	32,222	119	
Augusta	Augusta 1367	8	35.0	18.7	8.2	36.6	2.7	33.4	3.0	2.6	0.77	59.4	66.9	69.3	30.7	32,889	117	
Chemgro	Chemgro 7789RSX	32	34.8	18.4	8.2	36.9	2.8	35.1	3.0	3.1	0.78	58.2	65.6	68.0	32.0	33,222	117	
Dekalb	DKC66-40RIB	32	34.7	19.0	7.8	35.1	2.7	37.2	2.8	3.1	0.79	56.7	64.9	67.2	32.8	33,556	116	
Seedway	SW8009	4	34.2	17.8	8.0	38.3	2.8	33.0	3.1	2.7	0.76	58.8	66.7	69.0	31.0	32,556	117	
Chemgro	Chemgro 7795V4Z	8	34.2	16.9	8.2	38.1	2.6	31.7	3.0	2.5	0.76	60.7	68.1	70.5	29.5	33,111	117	
Syngenta	NK1808-3111	5	33.8	18.7	8.1	38.2	2.9	32.4	2.9	2.7	0.76	58.1	64.8	67.1	32.9	33,833	118	
Augusta	Augusta 5566	5	33.5	19.3	8.4	37.7	2.8	32.2	3.0	2.6	0.77	59.5	65.9	68.2	31.8	33,556	116	
Augusta	Augusta 7768	4	33.3	20.0	8.4	35.9	2.8	34.0	3.1	2.9	0.78	57.1	64.2	66.6	33.4	31,722	118	
Mycogen	TMF16S87	32	29.4	17.9	8.1	38.6	2.9	31.0	3.3	2.7	0.76	54.9	63.6	65.8	34.2	32,722	116	
	116-119 day means		34.9	18.8	8.1	36.8	2.8	34.6	3.0	2.8	0.775	58.0	65.7	68.1	31.9	32,967		
	Overall Mean		36.5	18.4	7.9	36.4	2.7	36.1	3.0	2.9	0.78	57.9	66.2	68.6	31.4	33,024		
	LSD(0.1)		4.3	2.9	0.6	5.2	0.4	6.8	0.5	0.4	0.03	3.4	3.3	3.4	3.4	1,661		
	CV%		8.7	11.6	5.5	10.5	11.8	14.1	11.3	9.5	3.19	4.4	3.7	3.7	8.0	3.7		

* See tab " Trait Key" for individual trait designation.

**Tables are sorted by dry matter. Avoid making comparisons with hybrids that differ significantly in dry matter.

*** Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis. CP=crude protein, NDF= neutral detergent fiber,

NEL=net energy for lactation, and NDFD=neutral detergent fiber digestibility.

¹ - NS = Not Significant, ² - Fat = Total Fatty Acids

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