

2025

Professional Dairy Managers of Pennsylvania (PDMP) Corn Silage Hybrid Performance Trial Results



PDMP Corn Silage Hybrid Testing Program 2025



Mid maturity (100-111) day RM silage hybrids in Juniata and Centre Counties

Notes: SEE INDIVIDUAL REPORT FOR BACKGROUND DATA

Cooperators: Reinford Farms and Penn State Agronomy Research Farm

Brand	Hybrid	Traits ¹	Relative Maturity	Pop. Plants/ac	Dry Matter % ²	Crude Protein %DM	Lignin %DM	Ash %DM	Starch %DM	TFA %DM	NDFom %DM	uNDF 240 hr %DM	NDFD 30 %NDF	IVSD %Starch ³	Fresh Yield tons/ac ⁴	OM Yield tons/ac ⁵	DOM Yield tons/ac ⁶	OMD % ⁷
100-105 day hybrids																		
Advanta Seeds	XC25791	17	105	34,000	37.4	7.6	2.1	2.7	38.1	2.5	32.6	9.5	57.6	68.9	20.9	7.1	4.7	66.3
Shur Grow Seeds	SG6314DV	19	103	34,000	37.2	7.6	2.3	2.8	33.2	2.4	35.8	10.5	58.2	68.6	18.6	6.3	4.2	65.9
Shur Grow Seeds	SG6122V	44	101	34,000	36.3	7.6	2.1	2.7	35.7	2.4	34.8	10.0	57.9	68.3	19.5	6.6	4.4	65.8
Advanta Seeds	XC25211	19	100	34,000	36.1	7.3	2.0	2.4	38.9	2.7	31.4	9.1	59.1	68.9	19.3	6.6	4.4	66.9
Kings Agriseeds	RedTail RT 53T49	19	103	34,000	35.9	7.5	2.3	2.9	32.7	2.3	36.8	11.4	57.0	68.6	19.3	6.6	4.0	65.1
Channel	202-43VT4PRIB	53	102	34,000	35.5	7.5	2.2	2.9	33.2	2.3	36.6	10.5	58.1	69.4	19.6	6.7	4.4	65.9
Shur Grow Seeds	SG6222PCE	33	102	34,000	34.4	7.5	2.0	2.7	37.7	2.4	31.3	8.8	59.1	69.2	19.1	6.5	4.4	67.0
Dekalb	DKC53-94RIB	39	103	34,000	34.4	7.3	2.0	2.8	34.4	2.3	34.2	9.5	60.5	69.5	19.3	6.6	4.4	67.4
Channel	204-54SSPRIB	40	104	34,000	34.4	7.2	2.1	2.5	35.5	2.4	35.3	9.9	59.3	69.0	20.1	6.8	4.6	66.4
Dekalb	DKC105-25RIB	40	105	34,000	34.4	7.3	2.2	2.7	32.3	2.2	37.2	10.6	58.9	69.9	19.4	6.6	4.4	66.4
Shur Grow Seeds	SG6310PCE	33	103	33,970	34.2	7.6	2.2	2.7	34.5	2.9	35.6	10.0	59.7	68.6	20.6	7.0	4.7	66.6
Growmark FS	INVISION FS 5159PC	32	101	34,000	34.1	7.5	2.1	2.8	37.0	2.4	32.7	8.9	59.6	68.9	19.8	6.7	4.5	66.9
Shur Grow Seeds	SG6106DV	19	101	34,000	33.9	7.7	2.2	2.7	36.1	2.4	32.4	10.2	55.4	69.3	19.1	6.5	4.3	65.6
Seed Consultants	SC1055PCE	33	105	34,000	33.7	7.0	2.4	2.8	31.3	2.0	38.6	11.0	57.8	70.6	20.0	6.8	4.5	65.7
Pine Creek Seeds	R5416PC	33	104	32,583	33.1	7.5	2.0	2.8	36.4	2.3	33.2	9.0	60.1	69.9	18.8	6.4	4.3	67.6
Augusta	A2355	0	105	33,970	33.0	7.7	2.2	3.3	31.5	2.7	37.3	10.4	59.8	69.9	19.0	6.4	4.3	66.9
Revere	0120 PC	33	101	34,000	32.5	7.8	2.1	2.8	36.2	2.5	31.9	9.7	57.6	69.0	17.4	5.9	3.9	66.3
Growmark FS	INVISION FS 5559PC	32	105	34,000	30.7	7.3	2.1	3.1	31.3	2.1	34.7	9.9	58.5	70.5	21.0	7.1	4.7	66.6
100-105 day means					34.5	7.5	2.1	2.8	34.8	2.4	34.6	9.9	58.6	69.3	19.5	6.6	4.4	66.4
106-111 day hybrids																		
Syngenta	NK0604-DV	19	106	34,000	36.3	7.3	2.1	2.6	37.3	2.4	33.0	9.2	59.9	68.8	20.5	7.0	4.7	67.0
Syngenta	E108K4-DV	19	108	34,000	35.2	7.6	2.2	2.9	35.1	2.4	33.7	10.2	56.9	68.6	18.8	6.4	4.2	65.5
Kings Agriseeds	RedTail RT 57T66	33	107	34,000	34.5	7.6	2.2	2.8	36.3	2.3	32.8	9.7	57.4	69.9	19.9	6.8	4.5	66.4
Chemgro	6854PCE	33	108	34,009	34.2	7.3	2.1	2.8	35.4	2.4	33.8	9.7	58.2	70.3	20.8	7.1	4.7	66.9
Seed Consultants	SC1086PCE	33	108	34,000	33.7	7.4	2.2	2.9	32.6	2.2	35.3	10.3	58.4	69.2	20.0	6.8	4.5	66.1
Seed Consultants	SC1116PCE	33	111	34,000	33.7	7.5	2.2	2.8	33.9	2.2	35.4	10.1	58.5	70.1	22.3	7.6	5.1	66.6
Channel	210-92SSPRIB	40	110	34,000	33.6	7.4	2.2	2.9	34.0	2.3	33.9	10.0	57.9	69.8	19.2	6.5	4.3	66.4
Seedway	SW 1000SP	42	110	33,966	33.5	7.1	2.4	2.8	30.1	2.1	39.2	11.2	58.4	69.5	21.1	7.2	4.7	65.6
Channel	207-34SSPRIB	40	107	34,000	33.4	7.2	2.1	2.6	34.0	2.3	35.0	10.1	58.1	69.7	19.6	6.7	4.4	66.3
Growmark FS	INVISION FS 6157T F	43	111	34,000	33.4	7.2	2.3	2.7	32.6	2.2	35.5	11.2	56.4	69.1	21.8	7.4	4.8	65.1
Seedway	SW 0711SS	39	107	33,351	33.3	7.4	2.4	2.9	31.1	2.2	38.7	11.0	59.1	69.1	17.7	6.0	4.0	65.9
Pine Creek Seeds	R5917D	17	109	33,966	33.3	7.9	2.4	3.1	32.1	2.5	36.0	11.1	57.0	68.4	18.8	6.4	4.2	65.3
Revere	0918VT2PRIB	50	109	34,000	33.2	7.4	2.3	2.8	34.8	2.3	34.5	10.3	57.6	69.7	19.9	6.8	4.5	66.2
Dekalb	DKC111-02RIB	40	111	34,000	33.2	7.3	2.1	2.6	35.3	2.4	33.5	9.8	58.3	69.9	20.8	7.1	4.7	66.7
Shur Grow Seeds	SG6884PCE	33	108	34,000	33.1	7.3	2.3	2.9	34.2	2.2	34.6	10.4	56.7	70.2	20.8	7.1	4.7	65.9
Seed Consultants	SC1105PCE	33	110	33,966	33.0	7.7	2.1	3.0	32.7	2.3	35.6	9.4	61.3	69.5	20.9	7.1	4.8	67.6
Dekalb	DKC61-80RIB	39	111	34,000	32.9	7.2	2.5	3.0	30.5	2.0	38.0	11.3	56.6	69.6	20.2	6.9	4.5	65.0

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Brand	Hybrid	Traits ¹	Relative Maturity	Pop. Plants/ac	Dry Matter % ²	Crude Protein %DM	Lignin %DM	Ash %DM	Starch %DM	TFA %DM	NDFom %DM	uNDF 240 hr %DM	NDFD 30 %NDF	IVSD %Starch ³	Fresh Yield tons/ac ⁴	OM Yield tons/ac ⁵	DOM Yield tons/ac ⁶	OMD % ⁷
Shur Grow Seeds	SG6807DV	19	108	34,000	32.4	7.5	2.6	3.0	31.4	2.1	36.9	11.7	54.1	70.4	18.8	6.4	4.1	64.2
Seedway	SW 1032TR	43	110	34,000	32.1	7.3	2.3	2.7	32.7	2.2	35.5	10.6	57.6	69.8	20.2	6.9	4.5	65.9
Augusta	A2060	31	110	34,000	30.6	7.4	2.6	3.2	29.9	2.0	37.9	12.0	54.8	70.9	19.7	6.7	4.1	64.6
106-111 day means					33.9	7.4	2.2	2.8	34.0	2.3	35.0	10.2	58.1	69.5	19.8	6.7	4.5	66.2
Overall Mean					33.9	7.4	2.2	2.8	34.0	2.3	35.0	10.2	58.1	69.5	19.8	6.7	4.4	66.2
LSD(0.1)					2.0	0.3	0.2	0.3	3.6	0.2	2.7	1.2	2.2	0.7	1.9	0.6	0.5	1.2
CV%					6.0	4.5	10.3	9.6	10.9	8.9	7.8	11.7	3.9	1.1	9.5	9.6	10.8	1.8

¹ **Traits:** See tab " Trait Key" for individual trait designation.

² **Dry Matter:** Tables are sorted by dry matter. *Avoid making comparisons with hybrids that differ significantly in dry matter.*

³ **IVSD:** Starch digestibility (% of starch) is analyzed by an NIRS method on samples ground through a 4-mm screen and incubated for 7 hours (IVSD).

⁴ **Fresh Yield:** Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis.

⁵ **OM Yield:** Silage yield (tons/ac) expressed on an organic matter (OM) basis.

⁶ **DOM Yield:** Yield of digestible organic matter.

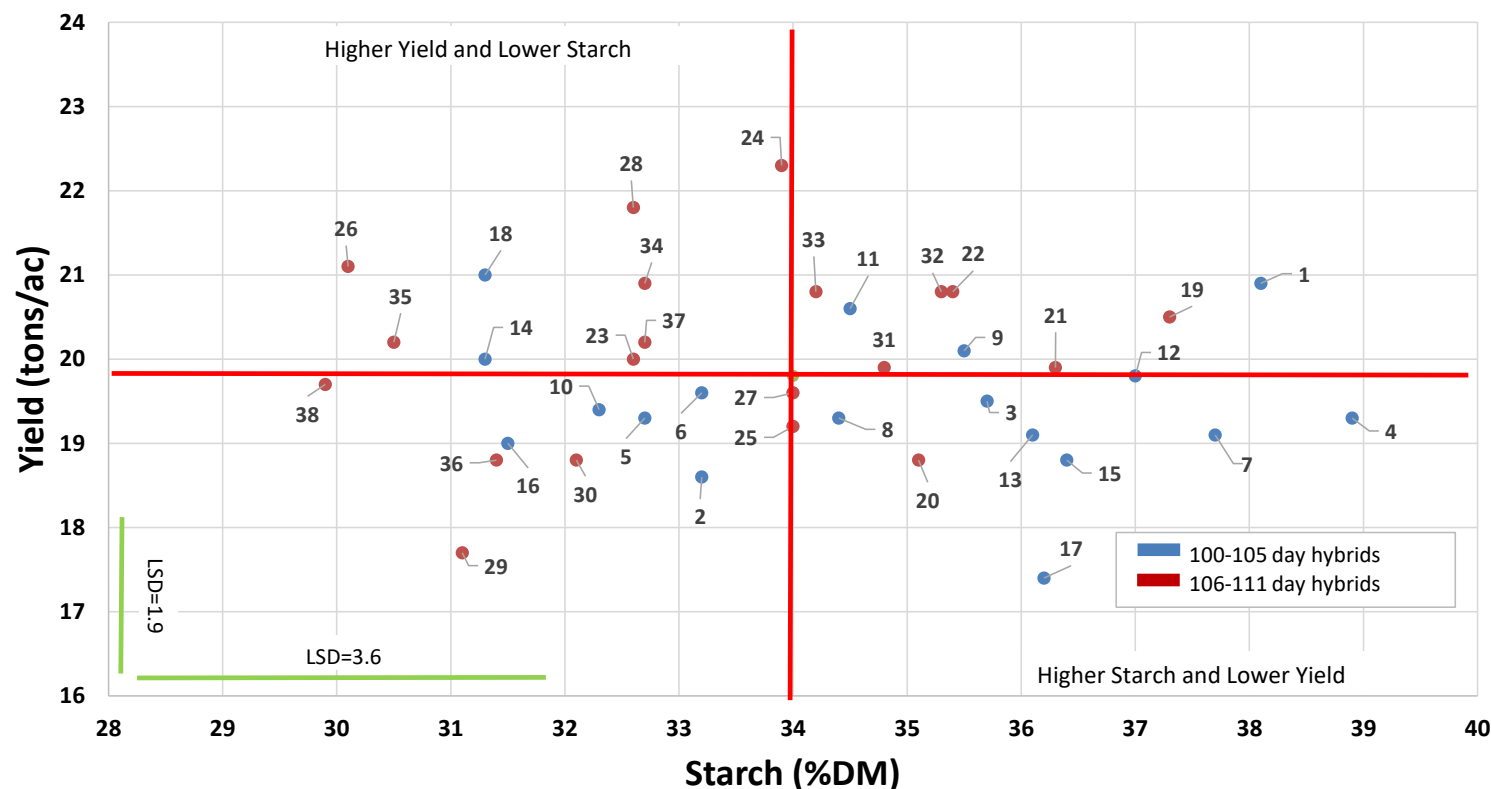
⁷ **OMD: Organic Matter Digestibility** - Please see "OMD Story" tab for information on how to use this column

NS = Not Significant

Prepared by: Alex Hristov (PSU Animal Sciences), Sergio Francisco (Cargill), Chris Canale (Cargill), Hanna Wells(PSU Plant Science), Dayton Spackman (PSU Plant Science), Cassidy Bumbaugh (PSU Plant Science), Charlie White (PSU Plant Science)

Mid Season Hybrids

Yield (tons/ac) and Starch (%DM)



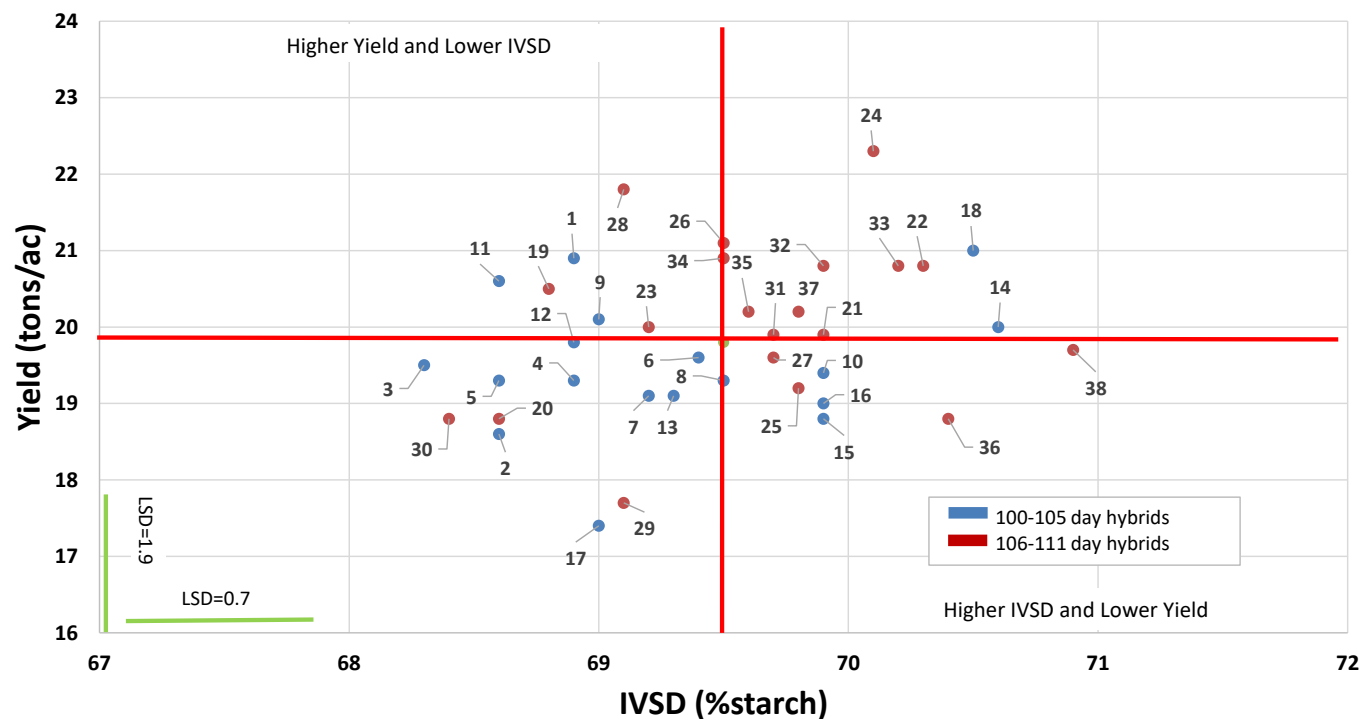
Legend

- 1.) Advanta Seeds XC25791
- 2.) Shur Grow Seeds SG6314DV
- 3.) Shur Grow Seeds SG6122V
- 4.) Advanta Seeds XC25211
- 5.) Kings Agriseeds RedTail RT 53T49
- 6.) Channel 202-43VT4PRIB
- 7.) Shur Grow Seeds SG6222PCE
- 8.) Dekalb DKC53-94RIB
- 9.) Channel 204-54SSPRIB
- 10.) Dekalb DKC105-25RIB
- 11.) Shur Grow Seeds SG6310PCE
- 12.) Growmark FS INVISION FS 5159PC RA
- 13.) Shur Grow Seeds SG6106DV
- 14.) Seed Consultants SC1055PCE
- 15.) Pine Creek Seeds R5416PC
- 16.) Augusta A2355
- 17.) Revere 0120 PC
- 18.) Growmark FS INVISION FS 5559PC RA
- 19.) Syngenta NK0604-DV
- 20.) Syngenta E108K4-DV
- 21.) Kings Agriseeds RedTail RT 57T66
- 22.) Chemgro 6854PCE
- 23.) Seed Consultants SC1086PCE
- 24.) Seed Consultants SC1116PCE
- 25.) Channel 210-92SSPRIB
- 26.) Seedway SW 1000SP
- 27.) Channel 207-34SSPRIB
- 28.) Growmark FS INVISION FS 6157T RIB
- 29.) Seedway SW 0711SS
- 30.) Pine Creek Seeds R5917D
- 31.) Revere 0918VT2PRIB
- 32.) Dekalb DKC111-02RIB
- 33.) Shur Grow Seeds SG6884PCE
- 34.) Seed Consultants SC1105PCE
- 35.) Dekalb DKC61-80RIB
- 36.) Shur Grow Seeds SG6807DV
- 37.) Seedway SW 1032TR
- 38.) Augusta A2060

*How to use this chart: This chart can be used to determine yield (tons/ac) and starch(%DM) of corn silage hybrids. The horizontal line represents the starch mean in this group of data. The vertical line represents the fresh yield mean in this group of data. Each point represents a data point that reflects fresh yield to starch. The number beside the data point can be referenced to the hybrid name located within the legend. The LSD lines represent differences between hybrids that are significantly different at the 0.1 level. These lines can be moved around within the plot of data.

Mid Season Hybrids

Yield (tons/ac) and IVSD (%starch)



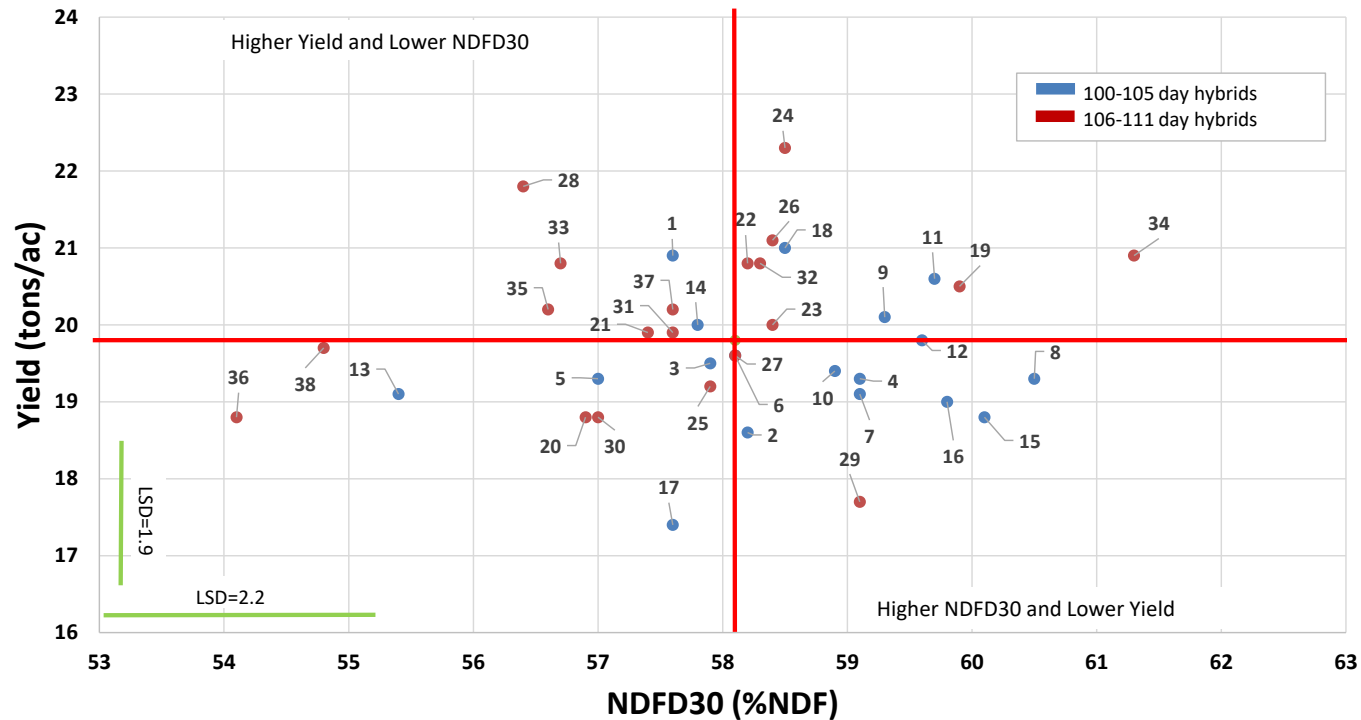
Legend

- 1.) Advanta Seeds XC25791
- 2.) Shur Grow Seeds SG6314DV
- 3.) Shur Grow Seeds SG6122V
- 4.) Advanta Seeds XC25211
- 5.) Kings Agriseeds RedTail RT 53T49
- 6.) Channel 202-43VT4PRIB
- 7.) Shur Grow Seeds SG6222PCE
- 8.) Dekalb DKC53-94RIB
- 9.) Channel 204-54SSPRIB
- 10.) Dekalb DKC105-25RIB
- 11.) Shur Grow Seeds SG6310PCE
- 12.) Growmark FS INVISON FS 5159PC RA
- 13.) Shur Grow Seeds SG6106DV
- 14.) Seed Consultants SC1055PCE
- 15.) Pine Creek Seeds R5416PC
- 16.) Augusta A2355
- 17.) Revere 0120 PC
- 18.) Growmark FS INVISON FS 5559PC RA
- 19.) Syngenta NK0604-DV
- 20.) Syngenta E108K4-DV
- 21.) Kings Agriseeds RedTail RT 57T66
- 22.) Chemgro 6854PCE
- 23.) Seed Consultants SC1086PCE
- 24.) Seed Consultants SC1116PCE
- 25.) Channel 210-92SSPRIB
- 26.) Seedway SW 1000SP
- 27.) Channel 207-34SSPRIB
- 28.) Growmark FS INVISON FS 6157T RIB
- 29.) Seedway SW 0711SS
- 30.) Pine Creek Seeds R5917D
- 31.) Revere 0918VT2PRIB
- 32.) Dekalb DKC111-02RIB
- 33.) Shur Grow Seeds SG6884PCE
- 34.) Seed Consultants SC1105PCE
- 35.) Dekalb DKC61-80RIB
- 36.) Shur Grow Seeds SG6807DV
- 37.) Seedway SW 1032TR
- 38.) Augusta A2060

*How to use this chart: This chart can be used to determine yield (tons/ac) and IVSD(%starch) of corn silage hybrids. The horizontal line represents the IVSD mean in this group of data. The vertical line represents the fresh yield mean in this group of data. Each point represents a data point that reflects fresh yield to IVSD. The number beside the data point can be referenced to the hybrid name located within the legend. The LSD lines represent differences between hybrids that are significantly different at the 0.1 level. These lines can be moved around within the plot of data.

Mid Season Hybrids

Yield (tons/ac) and NDFD30 (%NDF)



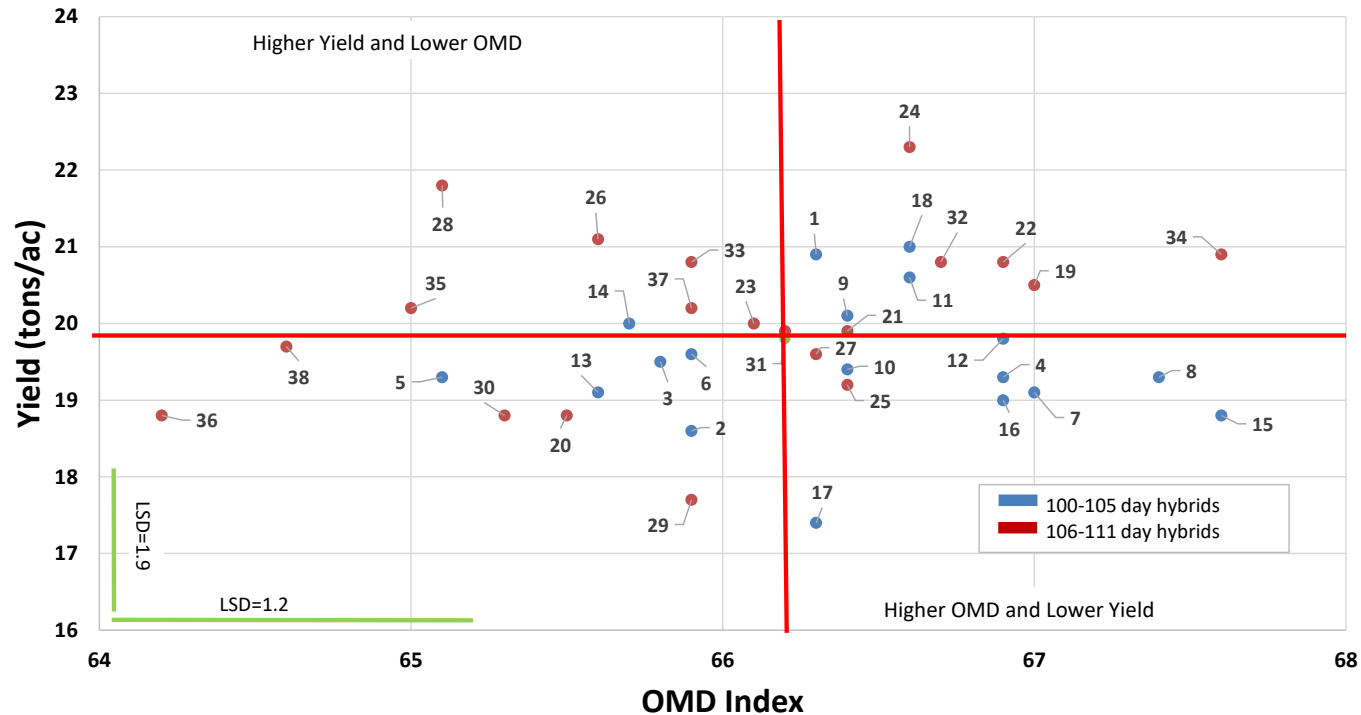
Legend

- 1.) Advanta Seeds XC25791
- 2.) Shur Grow Seeds SG6314DV
- 3.) Shur Grow Seeds SG6122V
- 4.) Advanta Seeds XC25211
- 5.) Kings Agriseeds RedTail RT 53T49
- 6.) Channel 202-43VT4PRIB
- 7.) Shur Grow Seeds SG6222PCE
- 8.) Dekalb DKC53-94RIB
- 9.) Channel 204-54SSPRIB
- 10.) Dekalb DKC105-25RIB
- 11.) Shur Grow Seeds SG6310PCE
- 12.) Growmark FS INVISION FS 5159PC RA
- 13.) Shur Grow Seeds SG6106DV
- 14.) Seed Consultants SC1055PCE
- 15.) Pine Creek Seeds R5416PC
- 16.) Augusta A2355
- 17.) Revere 0120 PC
- 18.) Growmark FS INVISION FS 5559PC RA
- 19.) Syngenta NK0604-DV
- 20.) Syngenta E108K4-DV
- 21.) Kings Agriseeds RedTail RT 57T66
- 22.) Chemgro 6854PCE
- 23.) Seed Consultants SC1086PCE
- 24.) Seed Consultants SC1116PCE
- 25.) Channel 210-92SSPRIB
- 26.) Seedway SW 1000SP
- 27.) Channel 207-34SSPRIB
- 28.) Growmark FS INVISION FS 6157T RIB
- 29.) Seedway SW 0711SS
- 30.) Pine Creek Seeds R5917D
- 31.) Revere 0918VT2PRIB
- 32.) Dekalb DKC111-02RIB
- 33.) Shur Grow Seeds SG6884PCE
- 34.) Seed Consultants SC1105PCE
- 35.) Dekalb DKC61-80RIB
- 36.) Shur Grow Seeds SG6807DV
- 37.) Seedway SW 1032TR
- 38.) Augusta A2060

*How to use this chart: This chart can be used to determine yield (tons/ac) and NDFD30 (%NDF) of corn silage hybrids. The horizontal line represents the NDFD30 mean in this group of data. The vertical line represents the fresh yield mean in this group of data. Each point represents a data point that reflects fresh yield to NDFD30. The number beside the data point can be referenced to the hybrid name located within the legend. The LSD lines represent differences between hybrids that are significantly different at the 0.1 level. These lines can be moved around within the plot of data.

Mid Season Hybrids

Yield (tons/ac) and OMD Index



Legend

- 1.) Advanta Seeds XC25791
- 2.) Shur Grow Seeds SG6314DV
- 3.) Shur Grow Seeds SG6122V
- 4.) Advanta Seeds XC25211
- 5.) Kings Agriseeds RedTail RT 53T49
- 6.) Channel 202-43VT4PRIB
- 7.) Shur Grow Seeds SG6222PCE
- 8.) Dekalb DKC53-94RIB
- 9.) Channel 204-54SSPRIB
- 10.) Dekalb DKC105-25RIB
- 11.) Shur Grow Seeds SG6310PCE
- 12.) Growmark FS INVISION FS 5159PC RA
- 13.) Shur Grow Seeds SG6106DV
- 14.) Seed Consultants SC1055PCE
- 15.) Pine Creek Seeds R5416PC
- 16.) Augusta A2355
- 17.) Revere 0120 PC
- 18.) Growmark FS INVISION FS 5559PC RA
- 19.) Syngenta NK0604-DV
- 20.) Syngenta E108K4-DV
- 21.) Kings Agriseeds RedTail RT 57T66
- 22.) Chemgro 6854PCE
- 23.) Seed Consultants SC1086PCE
- 24.) Seed Consultants SC1116PCE
- 25.) Channel 210-92SSPRIB
- 26.) Seedway SW 1000SP
- 27.) Channel 207-34SSPRIB
- 28.) Growmark FS INVISION FS 6157T RIB
- 29.) Seedway SW 0711SS
- 30.) Pine Creek Seeds R5917D
- 31.) Revere 0918VT2PRIB
- 32.) Dekalb DKC111-02RIB
- 33.) Shur Grow Seeds SG6884PCE
- 34.) Seed Consultants SC1105PCE
- 35.) Dekalb DKC61-80RIB
- 36.) Shur Grow Seeds SG6807DV
- 37.) Seedway SW 1032TR
- 38.) Augusta A2060

*How to use this chart: This chart can be used to determine yield (tons/ac) and the OMD Index of corn silage hybrids. The horizontal line represents the OMD Index mean in this group of data. The vertical line represents the fresh yield mean in this group of data. Each point represents a data point that reflects fresh yield to the OMD Index. The number beside the data point can be referenced to the hybrid name located within the legend. The LSD lines represent differences between hybrids that are significantly different at the 0.1 level. These lines can be moved around within the plot of data.

Updated August 2025

The most up-to-date version and related extension materials are free online at:
www.texasinsects.org/bt-corn-trait-table.html Questions? difonzo@msu.edu

Texas A&M University

Trait Key #	TABLE 2 Principal trait packages available in the U.S. (alternate names in parentheses)	letter code	Traits in the package ***** Font type denotes target: caterpillar or rootworm	Expected control by traits in the package *one or more remain effective (x) *resistance to all, widespread (R) / localized(RL)												Refuge in northern states (higher in the south)	Weed control Trait *check bag tag
				B	C	E	F	S	S	T	W	N	W				
				C	E	C	A	S	C	W	A	B	C	R			
0	Conventional	C															
3	AcreMax	AM	Cry1Ab Cry1F	x	R	RL	RL	x	x	RL		R			5% blend	GLY LL	
4	AcreMax Leptra	AML	Cry1Ab Cry1F Vip3A	x	x	RL	x	x	x	x	x				5% blend	GLY LL	
6	AcreMax Xtra	AMX	Cry1Ab Cry1F Cry34/35Ab1	x	R	RL	RL	x	x	RL		R	RL	R	10% blend	GLY LL	
7	AcreMax Xtreme	AMXT	Cry1Ab Cry1F Cry34/35Ab1 mCry3A	x		RL	RL	x	x	RL		R	x	R	5% blend	GLY LL	
11+12	Agrisure Above (Agrisure3120EZ) AA Refuge Renew (Agrisure3120)	AA	Cry1Ab Cry1F	x	R	RL	RL	x	x	RL		R			5% blend Renew: 5%	GLY LL*	
13+14	Agrisure Total (Agrisure3122EZ) AT Refuge Renew (Agrisure3122)	AT	Cry1Ab Cry1F Cry34/35Ab1 mCry3A	x	R	RL	RL	x	x	RL		R	x	R	5% blend Renew: 5%	GLY LL*	
15	Agrisure Viptera 3110	3110	Cry1Ab Vip3A	x	x	RL	x	x	x	x	x	x			20%	GLY LL	
16	Agrisure Viptera 3111	3111	Cry1Ab Vip3A mCry3A	x	x	RL	x	x	x	x	x	x	x	R	20%	GLY LL	
17+18	Duracade (Agrisure5122EZ) D Refuge Renew (Agrisure5122)	D	Cry1Ab Cry1F eCry3.1Ab mCry3A	x	R	RL	RL	x	x	RL		R	x	R	5% blend Renew: 5%	GLY LL*	
19+20	Duracade Viptera (Agrisure522EZ) DV Refuge Renew (Agrisure522)	DV	Cry1Ab Cry1F Vip3A eCry3.1Ab mCry3A	x	x	RL	x	x	x	x	x	x	x	R	5% blend Renew: 5%	GLY LL*	
21+22	Duracade Viptera Z3 (Agrisure533EZ) DVZ Refuge Renew (Agrisure533Z)	DVZ	Cry1Ab Cry1A.105 Cry2Ab2 Vip3A eCry3.1Ab mCry3A	x	x	RL	x	x	x	x	x	x	x	R	5% blend Renew: 5%	GLY LL*	
29	Intrasect	YHR	Cry1Ab Cry1F	x	R	RL	RL	x	x	RL		R			5%	GLY LL	
30	Leptra	VYHR	Cry1Ab Cry1F Vip3A	x	x	RL	x	x	x	x	x	x			5%	GLY LL	
32	PowerCore Refuge Adv.	PWRA	Cry1A.105 Cry2Ab2 Cry1F	x	R	RL	x	x	x	RL		R			5% blend	GLY LL	
33	PowerCore Enlist or Enlist Refuge Advanced	PWE PCE	Cry1A.105 Cry2Ab2 Cry1F	x	R	RL	x	x	x	RL		R			5% Adv 5% blend	GLY LL Enlist	
57	PowerCore Ultra Enlist or Ultra Enlist Refuge Advanced	PWUE PCUE	Cry1A.105 Cry2Ab2 Cry1F Vip3A	x	x	RL	x	x	x	x	x	x			5% Adv 5% blend	GLY LL Enlist	
34	QROME	Q	Cry1Ab Cry1F Cry34/35Ab1 mCry3A	x	R	RL	RL	x	x	RL		R	x	R	5% blend	GLY LL	
35	SmartStax or Genuity SS	SS SX	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	x	R	RL	x	x	x	RL		R	RL	R	5%	GLY LL	
36	SmartStax Enlist SS Enlist Refuge Advanced	SSE	Same as SmartStax	x	R	RL	x	x	x	RL		R	RL	R	5% Adv 5% blend	GLY LL Enlist	
38	SmartStax Refuge Advanced SmartStax RIB Complete	SXRA	Same as SmartStax	x	R	RL	x	x	x	RL		R	RL	R	5% blend	GLY LL	
40	SmartStax PRO	SSPro	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1 dvSnf7	x	R	RL	x	x	x	RL		R	x	x	5%	GLY LL	
41	SmartStax PRO Enlist SSPro Enlist Refuge Advanced	SSPro	Same as SmartStax Pro	x	R	RL	x	x	x	RL		R	x	x	5% Adv 5% blend	GLY LL Enlist	
42	SmartStax PRO Refuge Advanced RIB Complete or w/RNAi Tech	SSPro	Same as SmartStax Pro	x	R	RL	x	x	x	RL		R	x	x	5% blend	GLY LL	
43	Trecepta RIB Complete	TRERIB	Cry1A.105 Cry2Ab2 Vip3A	x	x	RL	x	x	x	x	x	x			5% blend	GLY	
44+45	Viptera (Agrisure3220EZ) Vip Refuge Renew (Agrisure3220)	V	Cry1Ab Cry1F Vip3A	x	x	RL	x	x	x	x	x	x			5% blend Renew: 5%	GLY LL*	
46+47	Viptera Z3 (Agrisure3330EZ) VZ Refuge Renew (Agrisure3330)	VZ	Cry1Ab Cry1A.105 Cry2Ab2 Vip3A	x	x	RL	x	x	x	x	x	x			5% blend Renew: 5%	GLY LL*	
48	Vorceed Enlist	V	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1 dvSnf7	x	R	RL	x	x	x	RL		R	x	x	5% blend	GLY LL Enlist	
NA	Vorceed Enlist Structured - Expected in 2026	VS	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1 dvSnf7	x	R	RL	x	x	x	RL		R	x	x	5%	GLY LL Enlist	
49	VT Double PRO	VT2P	Cry1A.105 Cry2Ab2		R	RL	x	x	x	RL					5%	GLY	
50	VT2 PRO RIB Complete	VT2PRIB	Cry1A.105 Cry2Ab2		R	RL	x	x	x	RL					5% blend	GLY	
52	VT3 PRO RIB Complete	VT3PRIB	Cry1A.105 Cry2Ab2 Cry3Bb1		R	RL	x	x	x	RL			RL	R	10% blend	GLY	
53	VT4 PRO w/RNAi Technology	VT4PRO	Cry1A.105 Cry2Ab2 Vip3A Cry3Bb1 dvSnf7	x	x	RL	x	x	x	x	x	x	x	x	5% blend	GLY	

The OMD Index

The digestibility of nutrients in corn silage is paramount when determining nutritional value. Starch and NDF are responsible for much of the digestible energy in corn silage. In order to give dairy producers and nutritionist a tool to evaluate corn silage hybrids, we developed a new digestibility index, called the Organic Matter Digestibility Index (OMDI or just OMD), and is based on digestibility of protein, fat, NDF, and starch. The sum of which makes up approximately 86-88% of the organic matter in corn silage.

The OMD index represents the digestible portion of silage organic matter and is based on chemical analyses only. It does not predict dry matter intake or milk production, although numerous studies clearly show that digestibility of forage organic matter is directly related to lactation performance of dairy cows. The OMD index does not represent the absolute digestibility of silage organic matter, as this can be reliably determined only in experiments with live animals. But, OMD is representative of the potentially digestible organic matter of the whole plant and can be used to compare silage hybrids. Furthermore, simulation analyses using the Cornell Net Carbohydrate and Protein System (CNCPS v. 6.55; Cornell University, Ithaca, NY) show that OMD correlates reasonably well with model-predicted milk production of dairy cows fed a standard diet containing approx. 40% corn silage (dry matter basis).

How is the OMD Index Used?

Feeding value of corn silage is mostly associated with digestibility of NDF or starch. A long-standing goal of PDMP is to create a single measure of silage nutritive value using several variables associated with digestibility. Traditional variables, crude protein (accounted for fiber-bound nitrogen), NDF, starch, lignin, and fat, are combined with digestibility determinations for NDF (NDFD30*) and starch (IVSD; 7-hour, 1-mm grind). Once combined, these digestibility coefficients sum to predict OMD.

The OMD Index is calculated using the following equation:
$$\text{OMDI (\%)} = \frac{\{[(\text{crude protein} - \text{NDICP}) \times 0.89] + (\text{total fatty acids} \times 0.75) + (\text{starch} \times \text{IVSD} \div 100) + [(\text{aNDFom} - \text{lignin}) \times \text{NDFD30} \div 100]\}}{[(\text{crude protein} - \text{NDICP}) + \text{total fatty acids} + \text{starch} + (\text{aNDFom} - \text{lignin})] \times 100}.$$

Where: OMDI (%) is Organic Matter Digestibility Index; crude protein, total fatty acids, starch, NDICP (NDF-bound crude protein), aNDFom (ash-free basis, amylase-treated NDF), and lignin (ash-free) are expressed as % of corn silage dry matter; 0.89 is assumed (based on literature data) coefficient of digestibility of silage crude protein; 0.75 is assumed (based on literature data) coefficient of digestibility of silage total fatty acids; IVSD is starch digestibility (by NIRS at 7-hour and sample ground through a 4-mm sieve) expressed as % of starch; and NDFD30.

Use of OMDI: The OMD index is intended to represent the digestible portion of silage dry matter and is based on chemical analyses. OMD does not represent the absolute digestibility of silage organic matter, but it is representative of the potentially digestible organic matter and can be used when comparing silage hybrids. ***Simply put, the higher the OMD value, the higher the overall expected digestibility of the silage.*** OMD reflects the digestibility of key nutrients within the entire plant. Producers without carryover of silage should consider the interaction of OMD and DOM (digestible organic matter yield per acre) as yield of digestible organic matter will be equally as relevant as OMD.

Conclusion

Organic matter digestibility is not a new measure. For years, researchers and nutritionists have used digestibility estimates to formulate rations for dairy cattle. Today, integrating these data is a useful practice to gauge silage value and match hybrid to farm needs. Put simply, OMD measures whole plant digestibility. Emphasis is on digestibility of all main nutrients. In the end, we hope OMD serves to facilitate discussion among producer, seed consultant, and dairy nutritionist as to which hybrids offer the best nutrient value for dairy cows.