

2025

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



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)

PDMP Corn Silage Hybrid Testing Program 2025



Late maturity (111-120) day RM silage hybrids in Chester, Juniata, and Lancaster Counties

Notes: SEE INDIVIDUAL REPORT FOR BACKGROUND INFORMATION

Cooperators: Southeast Agricultural Research Station(SEARC), Reinford Farms, and Walmoore Holsteins Inc.

Brand	Hybrid	Relative Maturity	Traits ¹	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
111-114 day hybrids																		
Advanta Seeds	XC24121	114	10	33,333	39.4	7.8	2.3	2.7	41.1	2.6	30.8	9.4	54.8	67.9	22.0	7.5	4.9	65.2
Dekalb	DKC111-02RIB	111	40	33,333	38.2	7.7	2.2	2.7	41.4	2.6	30.7	8.8	56.5	68.5	22.9	7.8	5.2	66.1
Chemgro	7364PCE	113	33	33,333	38.2	7.5	2.1	2.5	42.5	2.7	29.8	8.5	56.7	68.6	22.4	7.6	5.1	66.3
Seed Consultants	SC1135PCE	113	33	33,335	38.0	7.6	2.1	2.8	40.1	2.5	31.7	8.9	57.9	68.7	22.3	7.6	4.9	66.5
Dekalb	DKC61-80RIB	111	39	33,333	37.6	7.3	2.4	2.6	38.4	2.5	33.4	10.1	55.9	68.0	22.1	7.5	4.9	65.0
Kings Agriseeds	RedTail RT 64T39	114	17	33,333	37.5	7.4	2.2	2.7	39.4	2.5	32.0	9.4	56.1	68.4	21.6	7.4	4.8	65.5
Growmark FS	INVISION FS 6349PC RA	112	32	33,333	37.3	7.7	2.2	2.8	39.1	2.6	32.3	9.4	56.8	68.7	22.3	7.6	5.0	66.0
Mid-Atlantic	MA6120PCE	112	32	33,335	37.3	7.7	2.2	2.7	38.9	2.7	32.7	9.6	57.7	68.5	21.8	7.4	4.9	66.2
Augusta	A2162	112	10	33,333	37.2	7.5	2.3	2.6	39.3	2.6	32.9	9.9	55.3	67.5	21.6	7.4	4.8	64.7
Channel	213-53SSPRIB	113	40	33,333	37.2	7.6	1.9	2.5	41.8	2.7	29.6	8.2	59.0	68.5	22.9	7.8	5.2	67.0
Mid-Atlantic	MA5144D	114	17	33,333	36.9	7.5	2.3	2.7	38.6	2.5	33.1	10.1	55.3	68.5	22.6	7.7	5.0	65.1
Advanta Seeds	XC24921	113	19	33,332	36.8	7.3	2.1	2.7	39.9	2.5	32.8	9.0	57.8	68.8	21.8	7.4	4.9	66.3
Channel	214-95SSPRIB	114	40	33,333	36.6	7.5	2.1	2.6	40.7	2.6	30.6	9.2	56.6	68.7	22.6	7.7	5.1	66.1
Growmark FS	INVISION FS 6157T RIB	111	43	33,333	36.5	7.4	2.2	2.6	38.2	2.6	33.2	10.2	55.3	68.4	22.5	7.7	5.0	64.6
Seedway	SW 1488TR	114	43	33,333	36.5	7.7	2.3	2.9	38.0	2.4	32.6	10.0	55.6	68.8	20.7	7.0	4.6	65.3
Syngenta	E114C4-DV	114	19	33,333	36.3	7.6	2.1	2.8	37.3	2.4	33.2	9.8	56.4	68.6	22.1	7.5	4.9	65.5
Seedway	SW 1331SP	113	42	33,333	36.2	7.5	2.3	2.6	37.5	2.5	33.3	10.3	55.2	68.4	21.8	7.4	4.8	64.9
Dekalb	DKC113-62RIB	113	40	33,333	36.0	7.7	2.3	2.7	38.0	2.5	32.9	10.2	55.5	68.6	22.3	7.6	5.0	65.1
Syngenta	NK1480-DV	114	19	33,333	36.0	7.6	2.3	2.8	36.9	2.4	34.7	10.4	56.2	67.9	21.1	7.2	4.7	65.0
Augusta	A2064	114	0	33,323	35.7	7.7	2.4	3.0	36.0	2.4	36.9	11.3	53.2	67.5	17.2	5.8	3.7	63.2
Pine Creek Seeds	R6317DV	113	19	33,333	35.2	7.5	2.3	2.8	37.5	2.4	33.7	10.6	55.3	68.7	20.7	7.0	4.6	64.9
Augusta	A1964	114	19	32,944	35.2	7.4	2.5	2.7	35.3	2.4	34.8	10.7	54.0	69.1	21.6	7.4	4.8	64.2
Tidewater Seed	Axis 66V66	112	33	33,333	34.4	7.4	2.3	2.8	35.0	2.3	34.6	10.5	55.6	68.9	20.3	6.9	4.5	64.7
111-114 day means					36.8	7.5	2.2	2.7	38.7	2.5	32.7	9.8	56.0	68.4	21.7	7.4	4.8	65.4
115-118 day hybrids																		
Revere	1627 TCRIB	116	43	33,333	38.9	7.5	2.1	2.6	40.7	2.7	30.9	8.9	57.3	67.9	21.7	7.4	4.9	65.9
Revere	1839 TCRIB	118	43	33,333	37.8	7.5	2.5	2.7	38.4	2.6	34.2	11.0	53.4	68.1	21.9	7.4	4.8	63.8
Tidewater Seed	Axis 64A29	115	43	33,333	37.4	7.4	2.2	2.5	39.2	2.5	32.0	9.5	55.7	68.1	22.1	7.5	4.9	65.1
Channel	215-84SSPRIB	115	40	33,333	37.3	7.5	2.1	2.7	38.0	2.4	33.3	9.4	57.8	68.8	22.1	7.5	5.0	66.1
Pine Creek Seeds	R6516PC	115	33	33,333	36.9	7.9	2.3	2.7	38.0	2.6	32.6	9.7	56.0	67.5	21.5	7.3	4.8	65.1
Stine Seed	9818-32	117	20	33,333	36.9	7.5	2.1	2.7	39.9	2.4	31.6	9.1	56.6	69.4	20.1	6.8	4.5	66.2
Seedway	SW 1579SS	115	39	33,333	36.6	7.7	2.3	2.7	37.2	2.5	33.0	9.8	56.5	67.9	20.6	7.0	4.6	65.2
Dekalb	DKC115-81RIB	115	40	33,333	36.4	7.5	2.3	2.6	37.8	2.6	33.3	10.0	56.2	68.2	21.9	7.5	4.9	65.3
Advanta Seeds	XC25231	117	19	33,335	36.4	7.7	2.1	2.8	37.9	2.5	32.1	9.6	56.3	68.5	21.7	7.4	4.8	65.6
Chemgro	7769SSP	117	40	33,333	36.1	7.7	2.2	2.7	39.5	2.6	31.2	9.5	55.8	68.4	23.0	7.8	5.1	65.5
Seed Consultants	SC1185V	118	48	33,333	36.1	7.7	2.1	2.7	38.5	2.5	32.0	9.3	57.4	68.2	22.5	7.7	5.0	66.0
Channel	215-40VT4PRIB	115	53	33,333	35.9	7.3	2.3	2.5	36.7	2.4	34.1	10.4	55.1	68.1	22.1	7.5	4.9	64.4
Syngenta	E11727-D	117	18	33,333	35.6	7.3	2.1	2.7	38.7	2.4	32.5	9.5	56.8	69.2	22.9	7.8	5.1	66.0
Syngenta	E118K9-DV	118	19	33,333	35.0	7.5	2.3	2.8	36.5	2.3	33.4	10.1	54.6	68.3	20.6	7.0	4.5	64.4
Advanta Seeds	XC25343	117	1	33,333	34.5	7.4	2.3	2.7	35.7	2.4	33.8	10.5	54.9	68.4	20.5	7.0	4.5	64.6
Stine Seed	9817-30	116	45	33,333	34.4	7.6	2.1	2.8	37.4	2.4	32.7	9.9	55.6	68.6	21.0	7.2	4.7	65.2
115-118 day means					36.4	7.5	2.2	2.7	38.1	2.5	32.7	9.8	56.0	68.4	21.6	7.4	4.8	65.3
Overall Mean					36.6	7.5	2.2	2.7	38.5	2.5	32.7	9.8	56.0	68.4	21.7	7.4	4.8	65.3

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Brand	Hybrid	Relative Maturity	Traits ¹	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
				LSD(0.1)	1.9	0.3	0.2	NS	3.2	0.2	2.5	1.0	2.0	0.7	1.5	0.5	0.4	1.1
				CV%	6.6	4.3	11.6	12.2	10.5	9.0	9.6	13.4	4.6	1.2	8.8	8.9	9.9	2.2

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 digestibiliy (% 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.

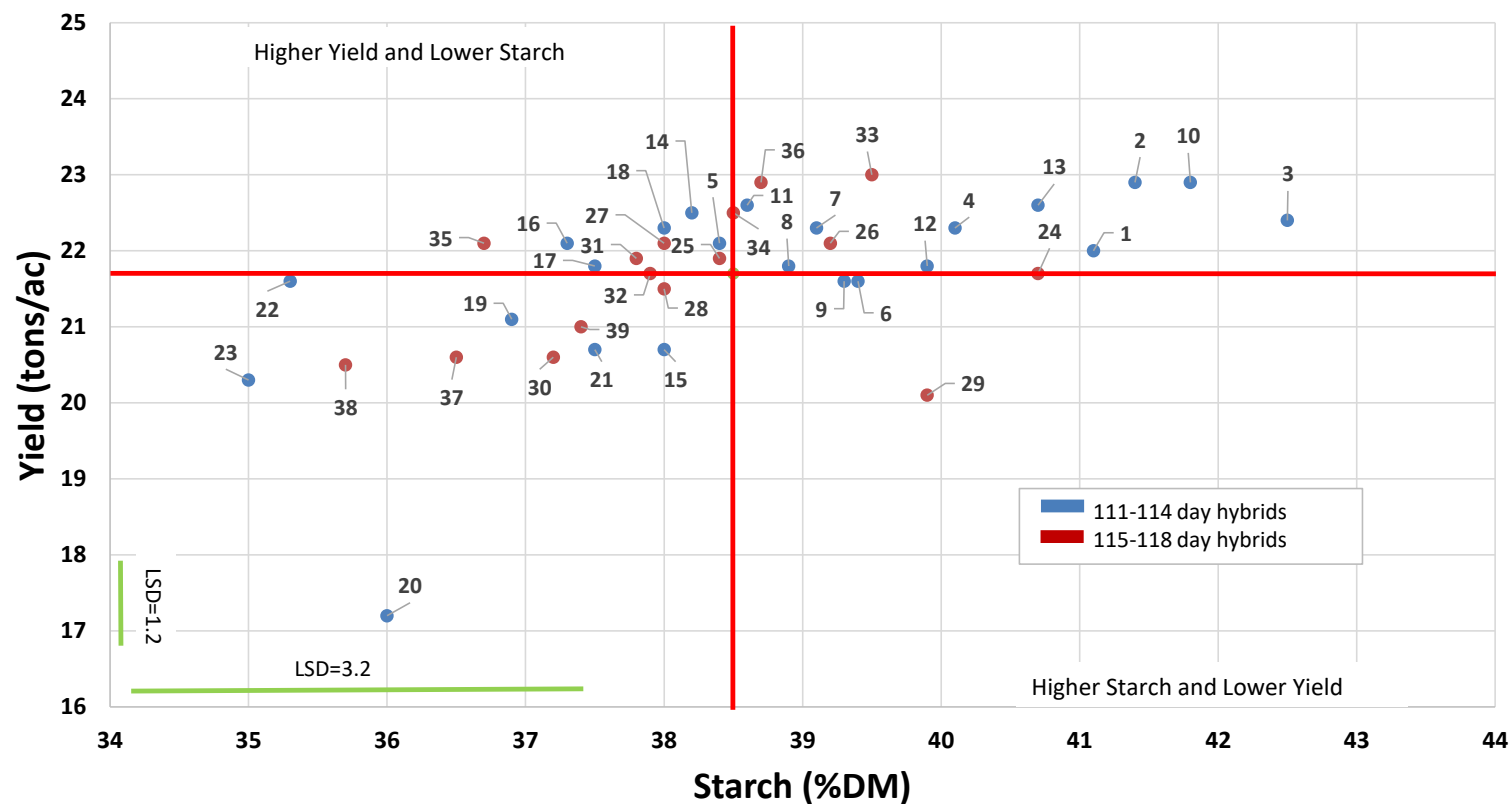
⁷ **OMD: Organic Matter Digestibility** - Please see "OMD Story" tab for information on how to use this column

NS = Not Significant

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Late Season Hybrids

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



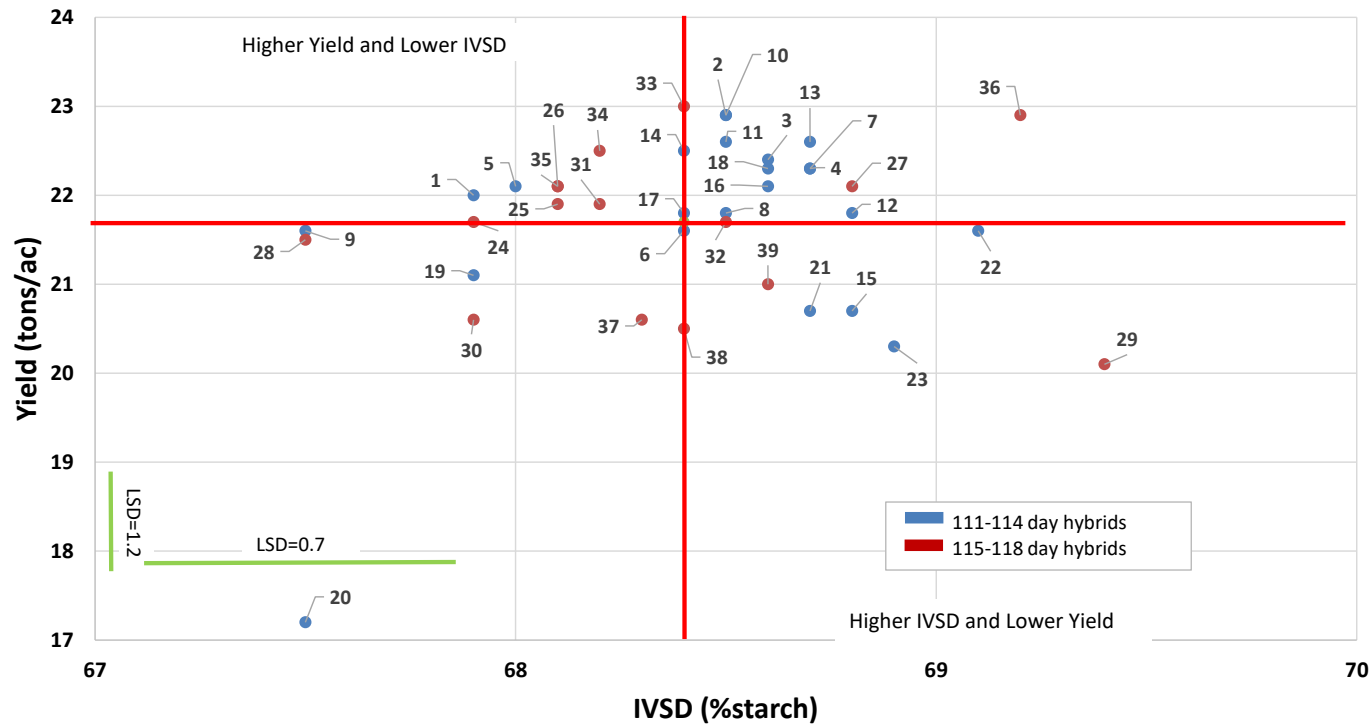
Legend

- 1.) Advanta Seeds XC24121
- 2.) Dekalb DKC111-02RIB
- 3.) Chemgro 7364PCE
- 4.) Seed Consultants SC1135PCE
- 5.) Dekalb DKC61-80RIB
- 6.) Kings Agriseeds RedTail RT 64T39
- 7.) Growmark FS INVISION FS 6349PC RA
- 8.) Mid-Atlantic MA6120PCE
- 9.) Augusta A2162
- 10.) Channel 213-53SSPRIB
- 11.) Mid-Atlantic MA5144D
- 12.) Advanta Seeds XC24921
- 13.) Channel 214-95SSPRIB
- 14.) Growmark FS INVISION FS 6157T RIB
- 15.) Seedway SW 1488TR
- 16.) Syngenta E114C4-DV
- 17.) Seedway SW 1331SP
- 18.) Dekalb DKC113-62RIB
- 19.) Syngenta NK1480-DV
- 20.) Augusta A2064
- 21.) Pine Creek Seeds R6317DV
- 22.) Augusta A1964
- 23.) Tidewater Seed Axis 66V66
- 24.) Revere 1627 TCRIB
- 25.) Revere 1839 TCRIB
- 26.) Tidewater Seed Axis 64A29
- 27.) Channel 215-84SSPRIB
- 28.) Pine Creek Seeds R6516PC
- 29.) Stine Seed 9818-32
- 30.) Seedway SW 1579SS
- 31.) Dekalb DKC115-81RIB
- 32.) Advanta Seeds XC25231
- 33.) Chemgro 7769SSP
- 34.) Seed Consultants SC1185V
- 35.) Channel 215-40VT4PRIB
- 36.) Syngenta E11727-D
- 37.) Syngenta E118K9-DV
- 38.) Advanta Seeds XC25343
- 39.) Stine Seed 9817-30

*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.

Late Season Hybrids

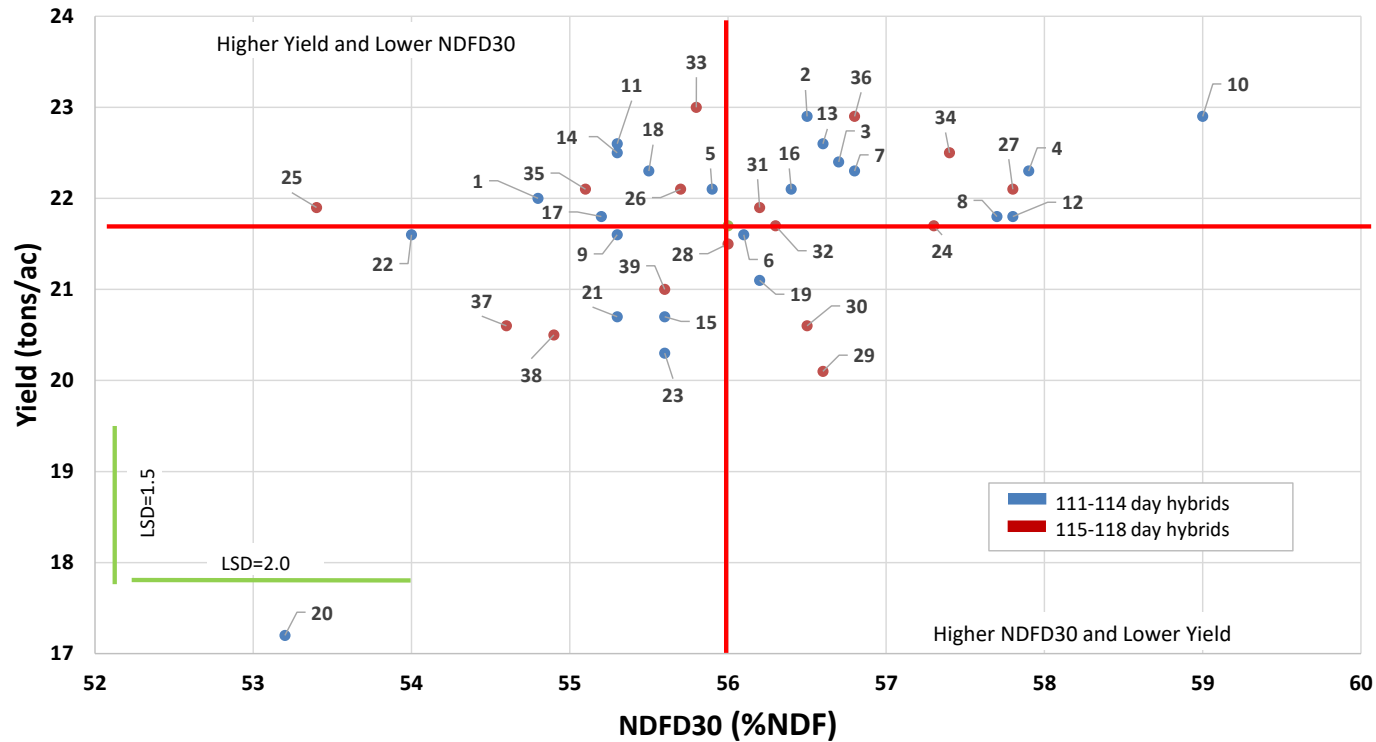
Yield (tons/ac) and IVSD (%starch)



*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.

Late Season Hybrids

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



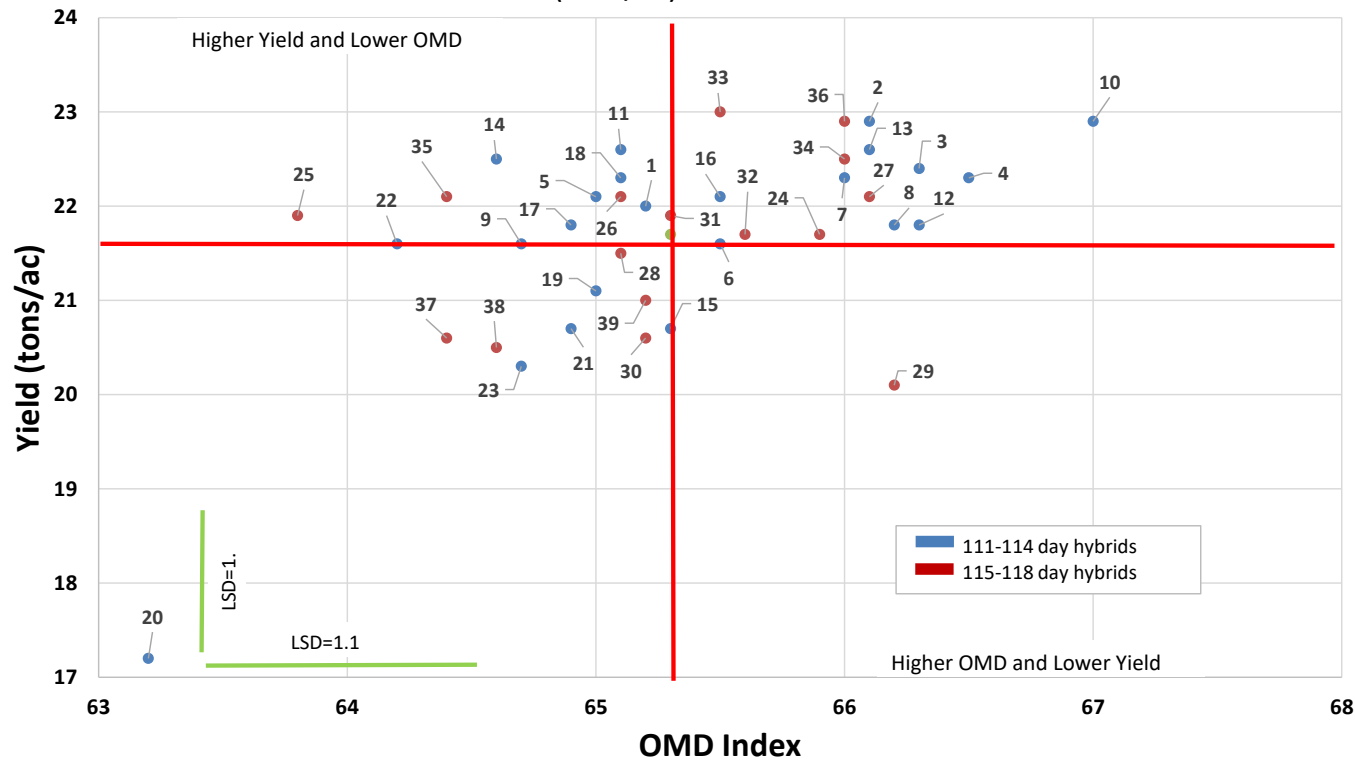
Legend

- 1.) Advanta Seeds XC24121
- 2.) Dekalb DKC111-02RIB
- 3.) Chemgro 7364PCE
- 4.) Seed Consultants SC1135PCE
- 5.) Dekalb DKC61-80RIB
- 6.) Kings Agriseeds RedTail RT 64T39
- 7.) Growmark FS INVISION FS 6349PC RA
- 8.) Mid-Atlantic MA6120PCE
- 9.) Augusta A2162
- 10.) Channel 213-53SSPRIB
- 11.) Mid-Atlantic MA5144D
- 12.) Advanta Seeds XC24921
- 13.) Channel 214-95SSPRIB
- 14.) Growmark FS INVISION FS 6157T RIB
- 15.) Seedway SW 1488TR
- 16.) Syngenta E114C4-DV
- 17.) Seedway SW 1331SP
- 18.) Dekalb DKC113-62RIB
- 19.) Syngenta NK1480-DV
- 20.) Augusta A2064
- 21.) Pine Creek Seeds R6317DV
- 22.) Augusta A1964
- 23.) Tidewater Seed Axis 66V66
- 24.) Revere 1627 TCRIB
- 25.) Revere 1839 TCRIB
- 26.) Tidewater Seed Axis 64A29
- 27.) Channel 215-84SSPRIB
- 28.) Pine Creek Seeds R6516PC
- 29.) Stine Seed 9818-32
- 30.) Seedway SW 1579SS
- 31.) Dekalb DKC115-81RIB
- 32.) Advanta Seeds XC25231
- 33.) Chemgro 7769SSP
- 34.) Seed Consultants SC1185V
- 35.) Channel 215-40VT4PRIB
- 36.) Syngenta E117Z7-D
- 37.) Syngenta E118K9-DV
- 38.) Advanta Seeds XC25343
- 39.) Stine Seed 9817-30

*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.

Late Season Hybrids

Yield (tons/ac) and OMD Index



Legend

- 1.) Advanta Seeds XC24121
- 2.) Dekalb DKC111-02RIB
- 3.) Chemgro 7364PCE
- 4.) Seed Consultants SC1135PCE
- 5.) Dekalb DKC61-80RIB
- 6.) Kings Agriseeds RedTail RT 64T39
- 7.) Growmark FS INVSION FS 6349PC RA
- 8.) Mid-Atlantic MA6120PCE
- 9.) Augusta A2162
- 10.) Channel 213-53SSPRIB
- 11.) Mid-Atlantic MA5144D
- 12.) Advanta Seeds XC24921
- 13.) Channel 214-95SSPRIB
- 14.) Growmark FS INVSION FS 6157T RIB
- 15.) Seedway SW 1488TR
- 16.) Syngenta E114C4-DV
- 17.) Seedway SW 1331SP
- 18.) Dekalb DKC113-62RIB
- 19.) Syngenta NK1480-DV
- 20.) Augusta A2064
- 21.) Pine Creek Seeds R6317DV
- 22.) Augusta A1964
- 23.) Tidewater Seed Axis 66V66
- 24.) Revere 1627 TCRIB
- 25.) Revere 1839 TCRIB
- 26.) Tidewater Seed Axis 64A29
- 27.) Channel 215-84SSPRIB
- 28.) Pine Creek Seeds R6516PC
- 29.) Stine Seed 9818-32
- 30.) Seedway SW 1579SS
- 31.) Dekalb DKC115-81RIB
- 32.) Advanta Seeds XC25231
- 33.) Chemgro 7769SSP
- 34.) Seed Consultants SC1185V
- 35.) Channel 215-40VT4PRIB
- 36.) Syngenta E117Z7-D
- 37.) Syngenta E118K9-DV
- 38.) Advanta Seeds XC25343
- 39.) Stine Seed 9817-30

*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.

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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	S	T	W	N	W			
				CW	EW	CB	AW	SB	CB	CB	AW	BC	CR	CR			
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	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 (Agrisure5222EZ) DV Refuge Renew (Agrisure5222)	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 (Agrisure5332EZ) DVZ Refuge Renew (Agrisure5332)	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					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		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				5% blend	GLY	
44+45	Viptera (Agrisure3220EZ) Vip Refuge Renew (Agrisure3220)	V	Cry1Ab Cry1F Vip3A	x	x	RL	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				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: $OMDI (\%) = \{[(\text{crude protein} - \text{NDICP}) \times 0.89] + (\text{total fatty acids} \times 0.75) + (\text{starch} \times \text{IVSD} \div 100) + [(a\text{NDFom} - \text{lignin}) \times \text{NDFD30} \div 100]\} \div [(\text{crude protein} - \text{NDICP}) + \text{total fatty acids} + \text{starch} + (a\text{NDFom} - \text{lignin})] \times 100$.

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.