



# Tool Name

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Tool Version:  
Last Updated:

## Description:

*This report provides independent and unbiased information for the evaluation of commercial corn grain and silage hybrids available in Pennsylvania. The corn hybrid evaluation program provides farmers, seed corn companies and university personnel with information on the relative performance of corn hybrids grown under Pennsylvania conditions. It should be used to supplement other sources of information, such as seed industry performance tests, other independent testing data, and on-farm performance records, when making hybrid selection decisions.*

## User Instructions:

*The "Background" tab provides information specific to each trial location. This information is useful to evaluate selected hybrids on your farm under your growing conditions and practices. The "Table" tab contains all the data needed to make a final determination of the proper hybrids for your operation. The first factor to consider when using this report is hybrid maturity. Moisture or dry matter is a good indicator of hybrid maturity. Hybrids with lower moisture or high dry matter are generally adapted to shorter season environments. Identify hybrids in the list that you know are adapted to your area. Then, select hybrids based on the qualities you are looking for on your operation. For grain, high yielding hybrids should be selected based on moisture and maturity. Silage has many quality factors that will vary from farm to farm. Dry matter is a good place to start when selecting a silage hybrid, but working with a nutritionist will help determine what forage qualities will be best for your operation. We do not recommend using data from a single site, even if it is close to your farm, to make hybrid selection choices. It is best to use data averaged over multiple locations. The last tab "Trait Key" contains all the commercial designation of individual traits. The "Table" tab will provide the company specific nomenclature, but the "Trait Key" will give a more in depth explanation of these traits.*

## References:

*This report is prepared by: Alex Hristov (PSU Animal Sciences), Chris Canale (Cargill), Dayton Spackman (PSU Plant Science), and James Breining (PSU Plant Science).*

## Acknowledgement of Risk:

*This tool is provided for general informational purposes only and The Pennsylvania State University shall have no liability whatsoever for the use of or reliance on this tool.*

# **2022**

# ***Penn State/PDMP Corn Silage Hybrid Performance Trial Results***

Prepared by Alex Hristov (PSU Animal Sciences), Chris Canale (Cargill), Hanna Wells (PSU Plant Science), Dayton Spackman (PSU Plant Science), and James Breining (PSU Plant Science).

Produced in cooperation with the Professional Dairy Managers of Pennsylvania (PDMP).

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## Production Details: Penn State/PDMP Corn Silage Hybrid Evaluation Trials

Site:	Alexandria, PA
Cooperator	Evergreen Farms
Planting Date	May 31, 2022
Soil Type	Philo and Basher silt loams
Herbicides	pre- post-
Previous Crop	corn silage/tritical
Tillage	No-till
Starter Fertilizer	15 gal/A UAN
Insecticide	Defcon 4.67
Manure	
Fertilizer	
Harvest Date	9/16/2022

### Field Summary:

Emergence was good on this river bottom field. Late season drought and heat hindered top end yield potential. Disease and pest pressure was negligible.

### Weather Summary:

Month	Precip. In.	GDD
May 31st-July 1st	3.70	649
July 1st- August 1st	2.80	782
August 1st - September	4.30	731
September 1st - Septem	4.00	286
Seasonal Total	14.80	2448

Precip. Data: <https://climate.com>

GDD data: <http://climatesmartfarming.org/tools/csf-growing-degree-day-calculator/>

**Penn State/PDMP Corn Silage Hybrid Testing Program 2022**  
**Medium maturity (100-110) day RM silage hybrids in Alexandria, PA**



Notes: SEE BACKGROUND TAB

Cooperator: Evergreen Farms

Brand	Hybrid	Traits <sup>1</sup>	Relative Maturity	Pop. Plants/ac	Dry Matter % <sup>2</sup>	NIRS <sup>3</sup>					FDMS <sup>4</sup>			WC <sup>5</sup>	Fresh Yield tons/ac <sup>7</sup>	OM Yield tons/ac <sup>8</sup>	DOM Yield tons/ac <sup>9</sup>	OMD % <sup>10</sup>	
						Crude Protein %DM	Lignin %DM	Ash %DM	Starch %DM	TFA %DM	NDFom %DM	uNDF 240 hr %DM	NDFD 30 %NDF	IVSD %Starch <sup>6</sup>					
Seed Consultants	SC1003AM	22	100	34,000	38.5	7.8	2.5	2.4	42.6	2.7	31.5	9.7	54.9	53.7	22.3	7.6	4.4	57.8	
Kings Agriseeds	RT 53T49	11	103	34,000	37.8	8.8	2.9	2.5	39.8	3.0	33.7	11.2	53.1	51.4	20.5	7.0	3.9	56.5	
Channel	206-16SSPRIB	36	106	32,833	36.5	8.6	2.5	2.4	43.0	2.8	31.2	10.0	53.8	51.7	18.9	6.4	3.7	56.6	
Hubner	H0570S	35	105	31,667	36.1	8.8	2.6	2.4	40.2	2.6	33.5	10.5	54.1	52.6	18.4	6.3	3.6	57.3	
Growmark FS	FS 5115X RIB	35	101	34,000	35.7	8.3	2.6	2.5	43.4	2.9	30.6	10.2	53.0	50.2	19.6	6.6	3.7	55.6	
Revere Seed	0607 TCRIB	34	106	33,667	35.3	8.8	2.9	2.6	39.2	2.6	34.9	11.6	52.5	53.7	18.7	6.4	3.6	57.2	
Pioneer	P0487Q	39	104	34,000	34.9	8.4	2.5	2.5	41.3	2.6	31.6	9.9	54.0	56.2	19.7	6.7	4.0	59.0	
Channel	206-99STXRIB	35	106	34,000	34.5	8.3	2.4	2.4	41.3	2.7	31.2	9.6	54.9	55.7	18.2	6.2	3.7	59.1	
Revere Seed	0518 VT2PRIB	32	105	31,333	34.2	8.0	2.5	2.5	42.0	2.6	32.7	10.1	54.7	58.1	18.8	6.4	3.8	60.1	
Chemgro	6929RSX	35	109	32,184	34.1	8.9	2.5	2.4	41.7	2.8	30.2	9.6	54.3	58.4	18.6	6.3	3.8	60.6	
Kings Agriseeds	RT 57T85	5	107	34,000	34.0	8.3	2.4	2.6	40.2	2.5	32.2	10.1	54.5	59.3	21.0	7.0	4.2	60.6	
Growmark FS	FS 6017V RIB	32	110	33,167	33.9	7.9	2.4	2.5	44.2	2.6	30.0	9.5	53.6	50.6	20.0	6.8	3.8	55.7	
Hubner	H6390RCSS	35	108	32,167	33.8	8.2	2.3	2.5	42.7	2.6	30.6	9.3	55.0	54.4	17.6	6.0	3.5	58.4	
Pioneer	P0924Q	39	109	33,500	33.7	8.4	2.3	2.6	41.3	2.6	30.3	8.8	56.7	54.3	19.0	6.5	3.8	59.1	
Seed Consultants	SC1112AM	22	111	32,667	33.6	8.6	2.4	2.5	43.0	2.7	29.6	9.5	54.0	53.6	21.6	7.4	4.3	57.7	
Seed Consultants	SC1042Q	22	104	33,500	33.2	8.4	2.5	2.5	40.9	2.6	31.6	9.9	54.9	54.9	18.3	6.3	3.6	58.7	
Dekalb	DKC61-80RIB	35	111	34,000	32.9	8.2	2.8	2.5	39.4	2.6	33.2	11.0	53.1	56.7	19.3	6.6	3.9	58.9	
Dekalb	DKC59-81RIB	35	109	33,000	32.8	8.8	2.6	2.5	40.9	2.6	31.8	10.3	53.3	49.4	18.8	6.4	3.5	55.5	
Growmark FS	FS 6121X RIB	35	111	33,000	32.3	8.7	2.5	2.5	36.7	2.4	33.1	10.3	54.7	58.6	18.9	6.4	3.9	60.6	
Dekalb	DKC58-64RIB	35	108	30,167	32.1	8.4	2.6	2.4	39.2	2.5	33.4	10.8	53.4	55.4	20.2	6.9	4.0	58.4	
Seed Consultants	SC1093AM	22	109	32,167	31.5	8.4	2.4	2.7	39.3	2.4	33.0	9.7	57.2	57.9	21.3	7.3	4.4	61.0	
Seed Consultants	SC1053AM	22	105	31,833	31.2	8.6	2.5	2.6	39.3	2.2	32.4	9.8	54.6	59.2	19.0	6.5	3.9	60.8	
Chemgro	6835D4Z	11	108	32,833	30.9	8.1	2.4	2.6	40.4	2.5	31.1	9.6	55.2	47.8	20.4	6.9	3.8	55.2	
Revere Seed	0918 SXRIB	35	109	32,833	30.8	8.5	2.9	2.6	36.2	2.4	34.9	11.9	52.5	50.1	18.0	6.1	3.4	55.6	
Dekalb	DKC61-40RIB	35	111	32,667	30.7	8.2	2.8	2.5	37.5	2.5	34.1	11.1	53.4	55.4	17.8	6.0	3.5	58.4	
					<b>Overall Mean</b>	<b>33.8</b>	<b>8.4</b>	<b>2.5</b>	<b>2.5</b>	<b>40.6</b>	<b>2.6</b>	<b>32.1</b>	<b>10.2</b>	<b>54.2</b>	<b>54.4</b>	<b>19.4</b>	<b>6.6</b>	<b>3.8</b>	<b>58.2</b>
					<b>LSD(0.1)</b>	<b>2.2</b>	<b>NS</b>	<b>0.3</b>	<b>NS</b>	<b>4.8</b>	<b>0.3</b>	<b>NS</b>	<b>1.2</b>	<b>1.9</b>	<b>3.1</b>	<b>1.8</b>	<b>0.6</b>	<b>0.4</b>	<b>1.7</b>
					<b>CV%</b>	<b>4.8</b>	<b>6.1</b>	<b>7.7</b>	<b>7.6</b>	<b>8.6</b>	<b>8.3</b>	<b>6.9</b>	<b>8.6</b>	<b>2.5</b>	<b>4.1</b>	<b>6.6</b>	<b>6.8</b>	<b>7.2</b>	<b>2.1</b>

<sup>1</sup> Traits: See tab " Trait Key" for individual trait designation.

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

<sup>3</sup> NIRS: Near Infrared Spectroscopy

<sup>4</sup> FDMS: In 2022 Cumberland Valley Analytical Services introduced a new in vitro fiber digestibility system, called Feed Degradation Modeling System (FDMS), to predict NDFD for all major forage classes, including fresh corn silage. We determined the relationship between FDMS NDFD30 and wet chemistry NDFD30 was strong enough to use FDMS NDFD30, and avoid the extra charge for wet chemistry NDFD30. Hence, FDMS NDFD30 will be used to calculate OMD

<sup>5</sup> WC: Wet Chemistry

<sup>6</sup> IVSD: Starch digestibility (% of starch) is analyzed by an in vitro wet chemistry method on samples ground through a 1-mm screen and incubated for 4 hours (IVSD).

<sup>7</sup> Fresh Yield: Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis.

<sup>8</sup> OM Yield: silage yield (tons/ac) expressed on an organic matter (OM) basis.

**Penn State/PDMP Corn Silage Hybrid Testing Program 2022**  
**Medium maturity (100-110) day RM silage hybrids in Alexandria, PA**



Notes: SEE BACKGROUND TAB

Cooperator: Evergreen Farms

Brand	Hybrid	Traits <sup>1</sup>	Relative Maturity	Pop. Plants/ac	Dry Matter % <sup>2</sup>	NIRS <sup>3</sup>					FDMS <sup>4</sup>			WC <sup>5</sup>	Fresh Yield tons/ac <sup>7</sup>	OM Yield tons/ac <sup>8</sup>	DOM Yield tons/ac <sup>9</sup>	OMD % <sup>10</sup>
						Crude Protein %DM	Lignin %DM	Ash %DM	Starch %DM	TFA %DM	NDFom %DM	uNDF 240 hr %DM	NDFD 30 %NDF	IVSD %Starch <sup>6</sup>				

<sup>9</sup> **DOM Yield:** Yield of digestible organic matter.

<sup>10</sup> **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 (PSU Animal Sciences), Chris Canale (Cargill), Hanna Wells(PDMP), Dayton Spackman (PSU Plant Science), and James Breining (PSU Plant Science).

Table Key #	Trait Family Product	Bt protein(s)	Marketed for control of:	Resistance to a Bt protein in the trait package has developed in :	Herbicide tolerant?	
Conv.	Conventional	None	None	---	No	
RR2	Roundup Ready 2	None	None	---	GT	
1	Agrisure GT	None	None	---	GT	
2	Agrisure 3010 & 3010A	Cry1Ab	ECB SWCB	---	GT LL	
3	Agrisure 3000 GT, 3011A	Cry1Ab, mCry3A	ECB SWCB RW	RW	GT LL	
4	Agrisure Viptera 3110	Cry1Ab, Vip3A	BCW CEW ECB FAW SB SWCB TAW WBC	---	GT LL	
5	Agrisure Viptera 3111	Cry1Ab, mCry3A, Vip3A	BCW CEW ECB FAW SB SWCB TAW WBC RW	RW	GT LL	
6	Agrisure 3120 E-Z Refuge	Cry1Ab, Cry1F	BCW ECB FAW SB SWCB	FAW WBC	REFER TO BAG FOR SPECIFIC LETTER CODE	
7	Agrisure 3122 E-Z Refuge	Cry1Ab, Cry1F, mCry3A, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW WBC RW		
8	Agrisure Viptera 3220 E-Z Refuge	Cry1Ab, Cry1F, Vip3A	BCW CEW ECB FAW SB SWCB TAW WBC	---		
9	Agrisure Viptera 3330 E-Z Refuge	CryAb, Vip3A, Cry1A.105+CryAb2	BCW CEW ECB FAW SB SWCB TAW WBC	---		
10	Agrisure Duracade 5122 E-Z Refuge	Cry1Ab, Cry1F, mCry3A, eCry3.1Ab	BCW ECB FAW SB SWCB RW	FAW WBC RW		
11	Agrisure Duracade 5222 E-Z Refuge	Cry1Ab, Cry1F, Vip3A, mCry3A, eCry3.1Ab	BCW CEW ECB FAW SB SWCB TAW WBC RW	RW		
12	Agrisure Duracade 5332 E-Z Refuge	Cry1A.105/Cry2Ab2, Cry1Ab, Vip3A, mCry3A, eCry3.1Ab	BCW CEW ECB FAW SB SWCB TAW WBC RW	WCR		
13	Herculex 1 (HX1)	Cry1F	BCW ECB FAW SB SWCB	ECB FAW SWCB WBC		LL RR2 (most)
14	Herculex RW (HXRW)	Cry34/35Ab1	RW	RW		
15	Herculex XTRA (HXX)	Cry1F, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW SWCB WBC RW		
16	TRIssect (CHR)	Cry1F, mCry3A	BCW ECB FAW SB SWCB RW	ECB FAW SWCB WBC RW	LL RR2	
17	Intrasect (YHR)	Cry1F, Cry1Ab	BCW ECB FAW SB SWCB	FAW WBC	LL RR2	
18	Intrasect TRIssect (CYHR)	Cry1Ab, Cry1F, mCry3A	BCW ECB FAW SB SWCB RW	FAW WBC RW	LL RR2	
19	Intrasect Xtra (YXR)	Cry1F, Cry1Ab, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW WBC RW	LL RR2	
20	Intrasect Xtreme (CYXR)	Cry1F, Cry1Ab, mCry3A, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW WBC RW	LL RR2	
21	Leptra (VYHR)	Cry1F, Cry1Ab, Vip3A	BCW CEW ECB FAW SB SWCB TAW WBC	---	LL RR2	
22	AcreMax (AM)	Cry1F, Cry1Ab	BCW ECB FAW SB SWCB	FAW WBC	LL RR2	
23	AcreMax CRW (AMRW)	Cry34/35Ab1	RW	RW	LL RR2	
24	AcreMax1 (AM1)	Cry1F, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW SWCB WBC RW	LL RR2	
25	AcreMax Leptra (AML)	Cry1Ab, Cry1F, Vip3A	BCW ECB FAW SB SWCB TAW WBC CEW	---	LL RR2	
26	AcreMax TRIssect (AMT)	Cry1F, Cry1Ab, mCry3A	BCW ECB FAW SB SWCB RW	FAW WBC RW	LL RR2	
27	AcreMax Xtra (AMX)	Cry1F, Cry1Ab, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW WBC RW	LL RR2	
28	AcreMax Xtreme (AMXT)	Cry1F, Cry1Ab, mCry3A, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW WBC RW	LL RR2	
29	YieldGard CB (YGCB)	Cry1Ab	ECB SWCB	---	RR2	
30	YieldGard VT Rootworm (YGRW)	Cry3Bb1	RW	RW	RR2	
31	YieldGard VT Triple	Cry1Ab, Cry3Bb1	ECB SWCB RW	RW	RR2	
32	VT Double PRO VT Double PRO RIB complete	Cry1A.105, Cry2Ab2	CEW ECB FAW SB SWCB	CEW	RR2	
33	VT Triple PRO VT Triple PRO RIB complete	Cry1A.105, Cry2Ab2, Cry3Bb1	CEW ECB FAW SB SWCB RW	CEW RW	RR2	
34	Trecepta (or RIB complete)	Cry1A.105, Cry2Ab2, Vip3A	BCW CEW ECB FAW SB SWCB TAW WBC	---	RR2	
35	Smartstax Smartstax Refuge Advanced Smartstax RIB Complete	Cry1A.105, Cry2Ab2, Cry1F, Cry3Bb1, Cry34/35Ab1	BCW CEW ECB FAW SB SWCB RW	CEW WBC RW	LL RR2	
36	Smartstax Pro	Cry1A.105, Cry2Ab2, Cry1F, Cry3Bb1, Cry34/35Ab1, DvSnf7, dsRNA	BCW CEW ECB FAW SB SWCB RW	CEW WBC	LL RR2	
37	Smartstax Enlist	Cry1A.105, Cry2Ab2, Cry1F, Cry3Bb1, Cry34/35Ab1	BCW CEW ECB FAW SB SWCB RW	CEW WBC RW	LL RR2 E	
38	Powercore (or Refuge Advanced)	Cry1A.105, Cry2Ab2, Cry1F	BCW ECB FAW SB SWCB CEW	CEW WBC	LL RR2	
39	QROME (Q)	Cry1Ab, Cry1F, mCry3A, Cry34/35Ab1	BCW ECB FAW SB SWCB	FAW WBC RW	LL RR2	
	BCW = black cutworm	SB = stalk borer	GT = glyphosate tolerant			
	CEW = corn earworm	SWCB = southern corn borer	LL = Liberty Link, glufosinate tolerant			
	ECB = European corn borer	TAW = true armyworm	RR2 = Roundup Ready 2, glyphosate tolerant			
	FAW = fall armyworm	WBC = western bean cutworm				
	RW = corn rootworm					

Source: <https://www.texasinsects.org/bt-corn-trait-table.html>

# 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 (FDMS NDFD30\*) and starch (IVSD; 4-hour, 1-mm grind). Once combined, these digestibility coefficients sum to predict OMD.

\* FDMS: In 2022 Cumberland Valley Analytical Services introduced a new in vitro fiber digestibility system, called Feed Degradation Modeling System (FDMS), to predict NDFD for all major forage classes, including fresh corn silage. We determined the relationship between FDMS NDFD30 and wet chemistry NDFD30 was strong enough to use FDMS NDFD30, and avoid the extra charge for wet chemistry NDFD30. Hence, FDMS NDFD30 will be used to calculate OMD. Hence, FDMS NDFD30 = 100

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

Where: OMDI (%) is Organic Matter Digestibility Index; crude protein, total fatty acids, starch, NDFCP (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 wet chemistry at 4-hour and sample ground through a 1-mm sieve) expressed as % of starch; and FDMS 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.