

		Tool Name
Extension Team:	Plant Science	Tool Version:
Author:	Dayton Spackman	Last Updated:
Contact Email:	djs5487@gmail.com	
Website:		
Description:		
evaluation program provid conditions. It should be us	des farmers, seed corn companies and ι	ne evaluation of commercial corn grain and silage hybrids available in Pennsylvania. The corn hybrid university personnel with information on the relative performance of corn hybrids gorwn under Pennsylvania ormation, such as seed industry performance tests, other independent testing data, and on-farm
User Instructions:		
and practices. The "Table report is hybrid maturity. N environments. Identify hyb high yielding hybrids shou when selecting a silage hy a single site, even if it is c	e" tab contains all the data needed to ma Moisture or dry matter is a good indicato brids in the list that you know are adapte uld be selected based on moisture and n ybrid, but working with a nutritionist will I close to your farm, to make hybrid select	location. This information is useful to evaluate selected hybrids on your farm under your growing conditions ake a final determination of the proper hybrids for your operation. The first factor to consider when using this or of hybrid maturity. Hybrids with lower moisture or high dry matter are generally adapted to shorter season ed to your area. Then, select hybrids based on the qualities you are looking for on your operation. For grain, maturity. Silage has many quality factors that will vary from farm to farm. Dry matter is a good place to start help determine what forage qualities will be best for your operation. We do not recommend using data from tion choices. It is best to use data averaged over multiple locations. The last tab "Trait Key" contains all the rovide the company specific nomenclature, but the "Trait Key" will give a more in depth explanation of these

#### **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:

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# 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	s: Penn State/	PDMP Cori	n Silage Hybrid Evaluation Trials							
Site:	Juniata	Juniata								
Cooperator	Reinford Farms									
Planting Date	May 26, 2022									
Soil Type	Monongahela silt loam									
Herbicides pre-	None									
post	Halex GT, Prowl, Sotrion, Ag Saver glyphosate, Wetsit, Envita									
Previous Crop	corn silage/rye co	corn silage/rye cover								
Tillage	no-till									
Starter Fertilizer	15 gal UAN									
Insecticide	Defcon 4.67G	Defcon 4.67G								
Manure	None									
Fertilizer	60# N + 12# S									
Harvest Date	9/15/2022									
Field Summary:										
This site experienced dr	ought and heat str	ess from early	y July through the first half of August.							
Conditions within the fi	-	-	. , c c							
Weather Summar										
Month	y. Precip. In.	GDD								
May 26st-June 1st	0.05	145								
June 1st-July 1st	5.85	573								
July 1st- August 1st	2.10	759								
August 1st -Sept 15th	5.30	5.30 997								
Seasonal Total	13.30	2474								
Precip. Data:	https://climate.co	om								
	http://climatesmartfarming.org/tools/csf-growing-degree-day-									
GDD data:	calculator/									

# Penn State/PDMP Corn Silage Hybrid Testing Program 2022 Late maturity (110-120) day RM silage hybrids in Port Royal, PA



PennState Extension & Professional Daire PROFESSIONAL DAIRY MANAGERS OF PENNSYLVAN

Notes: SEE BACKGROUND TAB

Cooperator: Chad Reinford

						NIRS <sup>3</sup>			<b>FDMS</b> <sup>4</sup>		WC⁵							
					Dry	Crude						uNDF	NDFD		Fresh	ОМ	DOM	
			Relative	Pop.	Matter	Protein	Lignin	Ash	Starch	TFA	NDFom	240 hr	30	IVSD	Yield	Yield	Yield	OMD
Brand	Hybrid	<b>Traits</b> <sup>1</sup>	Maturity	Plants/ac	% <sup>2</sup>	%DM	%DM	%DM	%DM	%DM	%DM	%DM	%NDF	%Starch <sup>6</sup>	tons/ac <sup>7</sup>	tons/ac <sup>8</sup>	tons/ac <sup>9</sup>	% <sup>10</sup>
Revere Seed	1307 TCRIB	34	113	34,000	43.8	8.0	3.3	2.3	43.7	3.2	34.3	12.2	48.9	47.3	18.3	6.3	3.3	52.3
Channel	212-52SSPRIB	36	112	34,000	42.9	8.1	2.7	2.0	46.6	3.2	31.0	9.9	52.9	48.6	17.1	5.9	3.2	54.4
Revere Seed	1398 VT2PRIB	32	113	34,000	42.7	8.3	2.7	1.9	44.0	3.0	33.1	10.4	53.5	47.9	18.4	6.3	3.4	54.5
Growmark FS	FS 6306T RIB	34	113	34,000	41.0	8.1	3.1	2.2	41.8	3.0	36.5	12.2	51.0	48.1	16.5	5.7	3.0	53.4
Dekalb	DKC61-40RIB	35	111	34,000	40.8	8.1	2.5	1.7	44.9	3.1	31.8	9.8	54.8	47.3	18.0	6.2	3.4	54.4
Revere Seed	1524 5222EZ	11	115	34,000	40.6	8.0	2.8	2.1	46.2	2.8	32.3	10.0	51.1	43.7	18.6	6.4	3.3	51.0
Revere Seed	1898 TCRIB	34	118	34,000	39.6	8.7	2.7	1.9	41.7	3.1	34.4	10.0	55.4	54.1	19.2	6.6	3.8	58.5
Revere Seed	1707 VT2PRIB	32	117	34,000	38.8	7.7	3.3	2.1	40.2	3.0	38.4	12.5	53.1	46.9	17.9	6.1	3.3	53.8
Hubner	H6755RCSS	35	115	34,000	38.6	7.2	3.3	2.1	40.5	3.0	37.2	12.2	53.2	49.2	16.2	5.6	3.0	54.6
Channel	214-22STXRIB	35	114	34,000	37.9	8.1	2.8	2.2	41.1	2.8	34.9	11.3	54.6	51.8	19.2	6.6	3.7	56.8
Dekalb	DKC61-80RIB	35	111	34,000	37.7	8.7	3.1	2.4	37.9	3.0	36.6	12.1	54.0	48.6	17.5	6.0	3.3	55.5
Channel	217-01STXRIB	35	117	34,000	37.1	8.3	2.5	2.2	44.8	2.9	33.0	10.2	55.6	49.8	16.0	5.4	3.0	56.0
Nutrien/Dyna-Gro	Dyna-Gro D55VC80	32	115	34,000	37.0	7.9	3.0	2.0	38.4	2.6	38.6	12.8	53.5	54.3	16.5	5.7	3.2	57.4
Chemgro	7539D4Z	11	115	34,000	36.9	7.6	3.2	2.6	37.0	2.4	39.8	12.5	53.8	53.0	17.4	6.0	3.4	56.8
Dekalb	DKC64-44RIB	35	114	34,000	36.9	8.2	3.1	2.4	38.3	2.7	38.6	12.1	54.0	49.3	16.0	5.5	3.1	55.5
Growmark FS	FS 6595X RIB	35	115	34,000	36.5	8.1	2.9	2.1	37.9	2.5	37.7	11.9	55.2	52.7	15.9	5.4	3.1	57.5
Pioneer	P1380Q	39	113	34,000	36.5	7.6	3.5	2.8	36.1	2.6	39.8	13.4	52.6	52.5	16.5	5.6	3.2	56.2
Brevant	B12F08Q	39	112	34,000	36.3	8.8	2.8	2.4	39.1	2.7	35.7	11.5	55.1	52.8	18.8	6.5	3.7	57.8
Nutrien/Dyna-Gro	Dyna-Gro D58VC22	32	117	34,000	36.3	8.5	3.0	2.2	38.5	2.9	37.0	12.1	54.9	52.7	17.9	6.1	3.5	57.6
Kings Agriseeds	RT 64T39	11	114	34,000	36.1	8.7	2.8	2.5	38.5	2.5	35.8	11.5	54.5	54.1	17.5	6.0	3.5	58.2
Mid-Atlantic	MA5144	10	114	34,000	35.8	8.8	2.9	2.6	37.6	2.5	35.7	11.4	54.5	54.9	17.8	6.1	3.6	58.5
Chemgro	7789RSX	35	117	32,500	35.6	8.7	2.6	1.9	38.7	2.7	35.5	10.9	56.9	51.4	16.0	5.5	3.2	57.9
Dekalb	DKC67-66RIB	35	117	34,000	35.5	8.3	3.3	2.1	38.7	3.1	36.1	12.1	51.4	44.8	19.4	6.6	3.5	52.4
Pioneer	P1267Q	39	112	34,000	35.3	9.4	2.7	2.9	34.7	2.5	38.5	10.8	59.1	46.9	15.5	5.3	3.0	57.3
Seed Consultants	SC1112AM	22	111	34,000	35.1	8.1	3.1	2.7	40.0	2.7	37.0	12.0	53.6	51.0	18.6	6.3	3.5	56.0
Pioneer	P1587Q	39	115	34,000	35.0	8.3	2.9	2.4	37.6	2.5	37.3	11.7	55.6	48.4	18.7	6.4	3.5	55.8
Seed Consultants	SC1122Q	39	112	34,000	34.6	8.6	3.0	2.6	37.4	2.5	38.8	12.1	55.3	52.6	17.7	6.0	3.5	57.7
Brevant	B13K20AM	22	113	34,000	33.9	8.3	2.7	2.5	40.3	2.5	35.5	11.1	55.7	50.1	18.1	6.1	3.5	56.4
Seed Consultants	SC1183AM	22	118	34,000	33.8	8.4	3.2	2.6	34.2	2.5	38.8	12.0	55.6	48.8	17.3	5.9	3.3	56.3
Syngenta	NK1838-3110	4	118	34,000	33.7	7.9	2.8	2.2	38.8	2.9	34.5	10.9	55.8	52.4	14.5	4.9	2.9	57.7
Brevant	B15B75SX	35	115	34,000	33.3	9.3	2.5	2.7	26.8	2.2	43.9	10.3	64.6	54.1	14.9	5.1	3.2	63.8
Mid-Atlantic	MA5166	2	116	34,000	32.6	8.8	2.8	2.4	35.3	2.5	36.9	11.4	56.6	51.2	15.3	5.2	3.0	57.9
Syngenta	NK1755-5222	11	117	34,000	32.3	9.3	3.1	2.6	34.5	2.6	38.2	12.5	55.3	53.5	16.3	5.6	3.3	58.5
Mid-Atlantic	MA5161	11	116	34,000	30.8	8.9	3.4	3.1	30.5	2.1	41.0	13.9	53.4	48.0	14.2	4.8	2.7	55.5
			Ov	erall Mean	36.8	8.3	2.9	2.3	38.9	2.7	36.6	11.6	54.6	50.4	17.2	5.9	3.3	56.3
				LSD(0.1)	2.6	0.8	0.4	0.5	5.2	0.3	4.0	1.8	2.8	3.8	2.2	0.7	0.4	2.2
				CV%	5.1	6.6	10.5	16.8	9.9	8.2	8.1	11.3	3.7	5.6	9.2	9.2	8.4	2.9
<sup>1</sup> Traits: See tab " Trait Key" for individual trait designation.																		

## Penn State/PDMP Corn Silage Hybrid Testing Program 2022 Late maturity (110-120) day RM silage hybrids in Port Royal, PA



#### Notes: SEE BACKGROUND TAB

Cooperator: Chad Reinford

								NIRS <sup>3</sup>				FDMS <sup>4</sup>		wc⁵				
					Dry	Crude						uNDF	NDFD		Fresh	ОМ	DOM	
			Relative	Рор.	Matter	Protein	Lignin	Ash	Starch	TFA	NDFom	240 hr	30	IVSD	Yield	Yield	Yield	OMD
Brand	Hybrid	<b>Traits</b> <sup>1</sup>	Maturity	Plants/ac	% <sup>2</sup>	%DM	%DM	%DM	%DM	%DM	%DM	%DM	%NDF	%Starch <sup>6</sup>	tons/ac <sup>7</sup>	tons/ac <sup>8</sup>	<sup>3</sup> tons/ac <sup>9</sup>	% <sup>10</sup>
<sup>2</sup> Dry Matter: Tables are s	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

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

<sup>5</sup> IVSD: Starch digestibiliy (% 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).

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

<sup>3</sup>**OM Yield:** silage yield (tons/ac) expressed on an organic matter (OM) basis.

**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 #				Resistance to a Bt protein in the trait package has	Herbicide
ubic hey i	Trait Family Product	Bt protein(s)	Marketed for control of:	developed in :	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
			BCW CEW ECB FAW SB SWCB		CT II
4	Agrisure Viptera 3110	Cry1Ab, Vip3A	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	
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		REFER TO BAG
9	Agrisure Viptera 3330 E-Z Refuge	CryAb, Vip3A, Cry1A.105+CryAb2	BCW CEW ECB FAW SB SWCB TAW WBC		FOR SPECIFIC
10	Agrisure Duracade 5122 E-Z Refuge	Cry1Ab, Cry1F, mCry3A, eCry3.1Ab	BCW ECB FAW SB SWCB RW	FAW WBC RW	LETTER CODE
11	Agrisure Duracade 5222 E-Z Refuge	Cry1Ab, Cry1F, Vip3A, mCry3A, eCry3.1Ab	BCW CEW ECB FAW SB SWCB TAW WBC RW	RW	
12	Agricure Duracado 5222 E 7 Pofugo	Cry1A.105/Cry2Ab2, Cry1Ab, Vip3A,	BCW CEW ECB FAW SB SWCB	WCR	1
12	Agrisure Duracade 5332 E-Z Refuge	mCry3A, eCry3.1Ab	TAW WBC RW		
13	Herculex 1 (HX1)	Cry1F	BCW ECB FAW SB SWCB	ECB FAW SWCB WBC	
14	Herculex RW (HXRW)	Cry34/35Ab1	RW	RW	LL
15	Herculex XTRA (HXX)	Cry1F, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW SWCB WBC RW	RR2 (most)
16	TRIsect (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 TRIsect (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
	AcreMax (AM) AcreMax CRW (AMRW)	Cry34/35Ab1	RW	RW	LL RR2
	AcreMax1 (AM1)	Cry1F, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW SWCB WBC RW	LL RR2
	AcreMax Leptra (AML)	Cry1Ab, Cry1F, Vip3A	BCW ECB FAW SB SWCB TAW		LL RR2
			WBC CEW		
	AcreMax TRIsect (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
	AcreMax Xtreme (AMXT)	Cry1F, Cry1Ab, mCry3A, Cry34/35Ab1	BCW ECB FAW SB SWCB RW	FAW WBC RW	LL RR2
	YieldGard CB (YGCB)	Cry1Ab	ECB SWCB		RR2
	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		FAW WBC RW	LL RR2
	BCW = black cutworm	SB = stalk borer	<b>GT</b> = glyphosate tolerant		1
	<b>CEW</b> = corn earworm	SWCB = southern corn borer	LL = Liberty Link, glufosinate tolerar	at	
			LINCITY LINK, SUUDSHIDLE LUIEI di	1 <b>v</b>	1
				a tolerant	
	ECB = European corn borer FAW = fall armyworm	TAW = true armyworm WBC = western bean cutworm	RR2 = Roundup Ready 2, glyphosate	e tolerant	

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: OMDI (%) = {[(crude protein – NDFCP) × 0.89] + (total fatty acids × 0.75) + (starch × IVSD ÷ 100) + [(FDMS NDFom - lignin) × FDMS NDFD30 ÷ 100)]} ÷ [(crude protein – NDFCP) + total fatty acids + starch + (aNDFom – lignin)] × 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.