

# SILAGE SOLUTIONS™

for the professional grower

*"Your Regional Advantage"®*



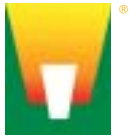
**DOEBLER'S**

2012



Dear Silage Grower,

We are pleased to bring you the 2012 edition of Doebler's *Silage Solutions*<sup>™</sup>. We are in our 77<sup>th</sup> year of providing exceptional products and second-to-none service for growers in the East. Our goal is to combine the best genetic selections with your management practices to give you the greatest return on your investment year after year.



The 2011 growing season was definitely challenging to say the least. It started out wet in most of the East, turned dry and extremely hot, then returned to extreme levels of rainfall in August and September, followed by Hurricane Irene and tropical storm Lee. These dramatic changes in weather have affected all facets of silage production.

As you work your way through *Silage Solutions*, you will find that we have made some changes. There is now a WSC (Water Soluble Carbohydrates) chart for all One Year Data categories. Also note the addition of Two Year Data information for Very Early Season and Mid Late Season silages. We hope this expansion proves to be useful.

Remember, we are always listening for how we can make *Silage Solutions* a better tool for you.

Best Regards,

A handwritten signature in black ink, appearing to read 'JMorse'.

Jeff Morse  
District Sales Manager and Dairy Nutritionist  
Doebler's PA Hybrids, Inc.





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## CORN SILAGE QUALITY AND DRY MATTER CONCENTRATION

*Perhaps one of the most important aspects of managing corn silage forage quality is harvesting the crop at the correct dry matter concentration. The correct dry matter concentration will help to optimize dry matter intake and milk production by promoting an optimum fermentation and by minimizing the potential for molds and mycotoxins to develop. The optimum dry matter concentration will vary depending on the storage structure: 30-35% DM for bunker silos, 32-37% for upright silos and 30-40% for bag silos. It is best, if possible, to try to make some dry matter measurements of the crop before you think its ready and then estimate the best time to harvest using a dry down rate of 0.5 to 0.6 percentage units a day. Harvesting by the calendar or by the external appearance of the plants can often lead to silage that is outside the desired range and the problems that can accompany this. With some of the new silage-only corn genetics, plants may be drier than they appear. Even use of the kernel milk line technique can be misleading in some seasons. The bottom line is to measure silage moisture just before and during harvest to make sure the crop is near the ideal dry matter to help maximize the quality of your silage crop. We also know that hybrids can vary in maturity, disease and stress tolerance, yield potential, energy content and fiber digestibility.*

*As part of your silage management program, work with your seed company to select hybrids that will match your needs and planting and harvest schedule. This way when you're ready to make quality corn silage, the maturity of your corn will help you harvest it quickly and efficiently at the right dry matter content.*

Dr. Greg Roth  
Professor of Agronomy  
Extension Agronomist  
The Pennsylvania State University



### U.S. GOVERNMENT GRANTS DOEBLER'S PROCESS PATENT

On January 18, 2005 the U.S. Government Patent Office issued U.S. Patent No. 6,844,194 for Doebler's Corn Silage Evaluation System. This new process was noted to be unique enough in the marketplace to be granted a process patent. What sets Doebler's approach to silage research apart from others is our unique protocol that allows more consistency, and therefore confidence, in identifying and measuring differences in critical silage characteristics.

Selecting representative material for evaluation is crucial to identifying the small silage characterization differences present between genetic backgrounds. In silage sample evaluation, the beginning point must be the most representative sample possible of the plant. While this may seem elementary, the ability to consistently collect representative samples thousands of times across harvest locations and years is not easy. This novel process allows greater consistency and therefore improves the opportunity of finding real, predictable differences among products' silage characteristics, not just sampling differences.

Doebler's silage evaluation process is a tremendous breakthrough that can provide producers a highly precise evaluation of the products Doebler's markets. The bottom line for dairy producers is more milk per silage acre.





Corn plants in cold storage, selected from our replicated research plots, waiting for processing.



Individual plants prior to grinding.



Each plant after being ground for NIR (Near Infrared) analysis.



"Whole plant quality" characteristics being collected.



Ground samples being packed into cells used for NIR analysis.



NIR analysis providing nutritional quality information.

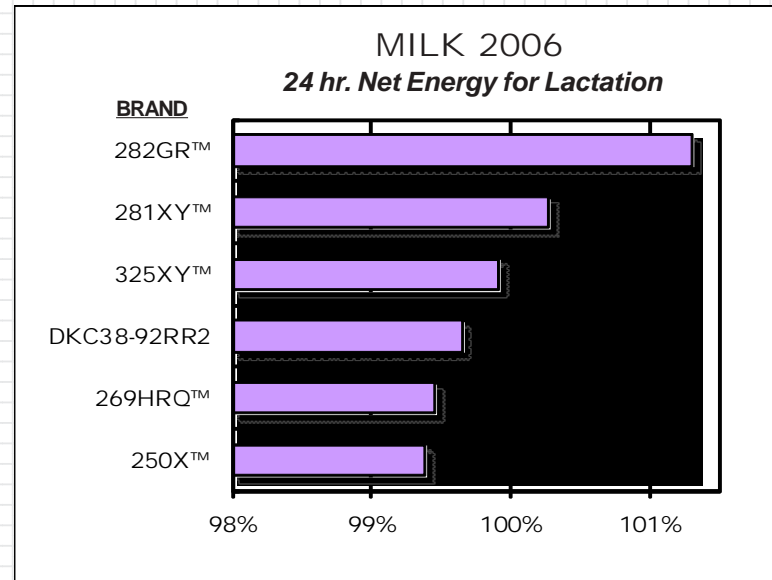


# PATENTED SILAGE EVALUATION PROCESS

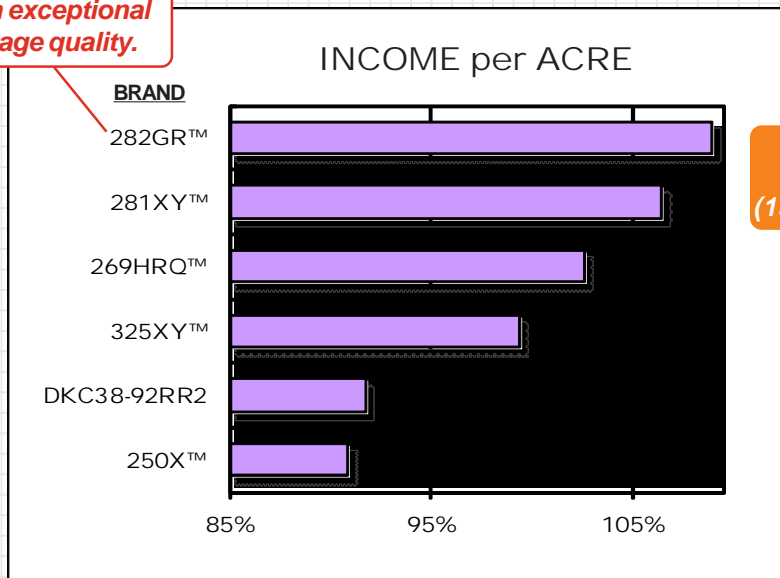
# VERY EARLY SEASON SILAGE

One Year Data

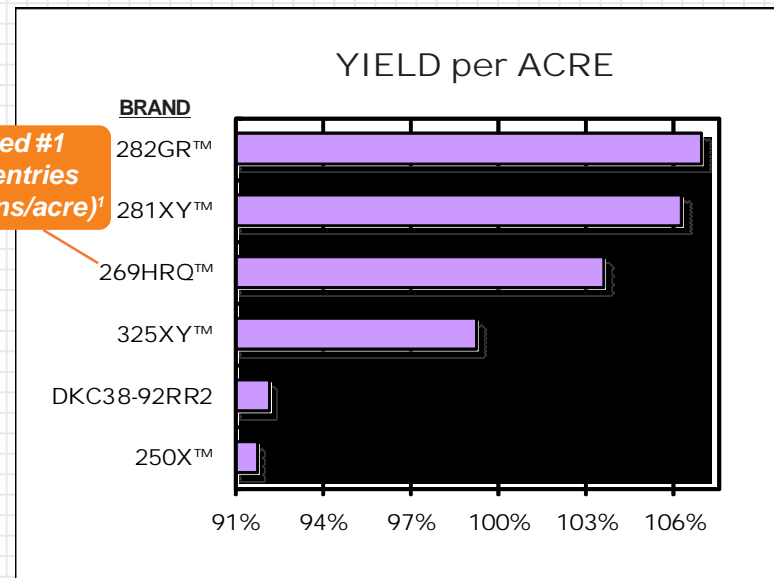
Refuge	RM	BRAND	TRAIT
	83	250X™	
	86	282GR™	AgrisureGT
	86	281XY™	
	86	RPM 269HRQ™	
	88	DEKALB DKC38-92RR2	
	89	325XY™	



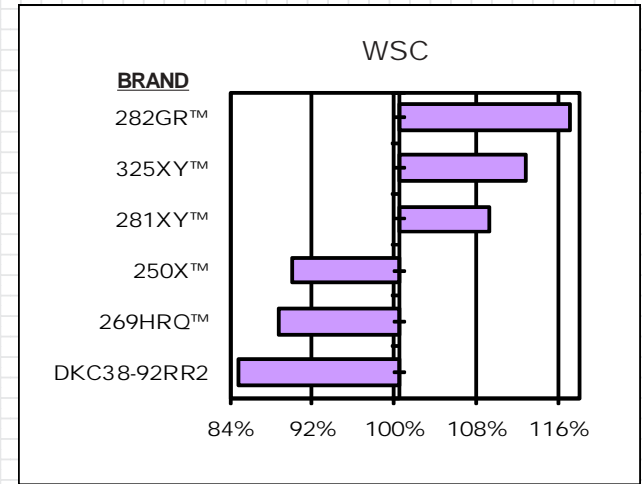
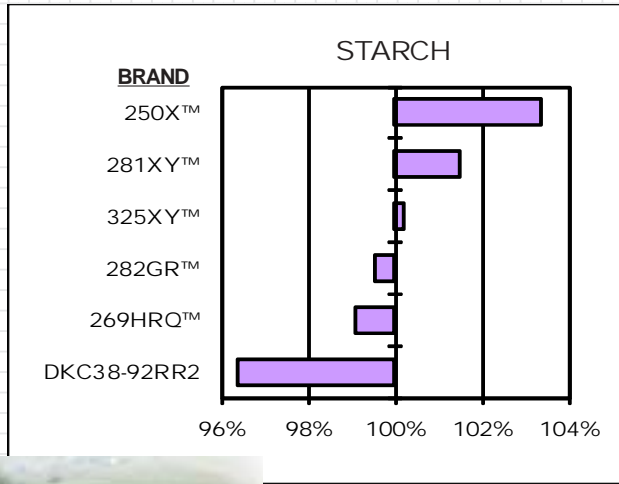
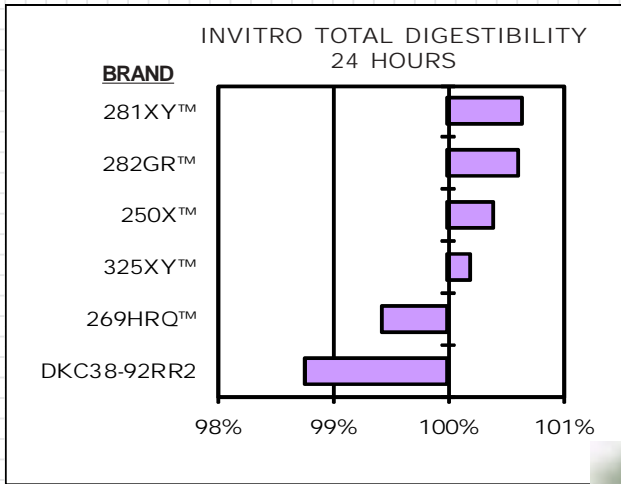
*New GT version of 281XY™ brand with exceptional forage quality.*



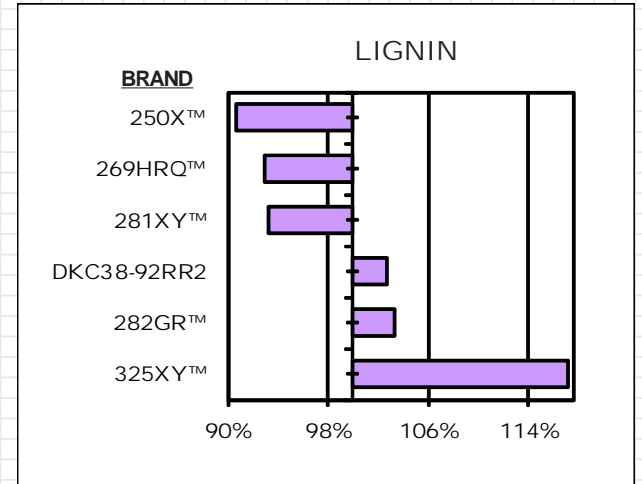
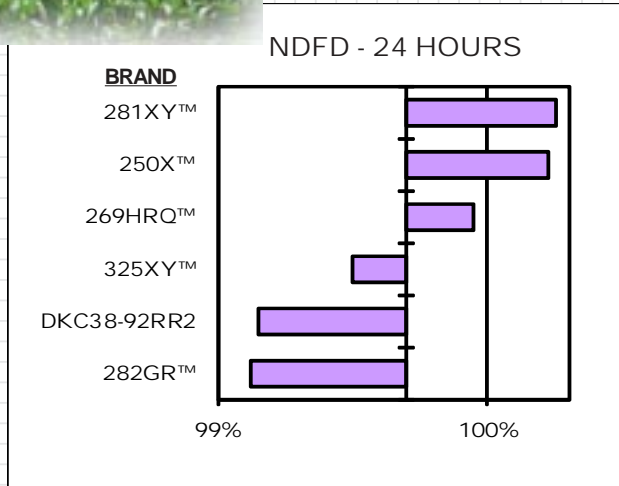
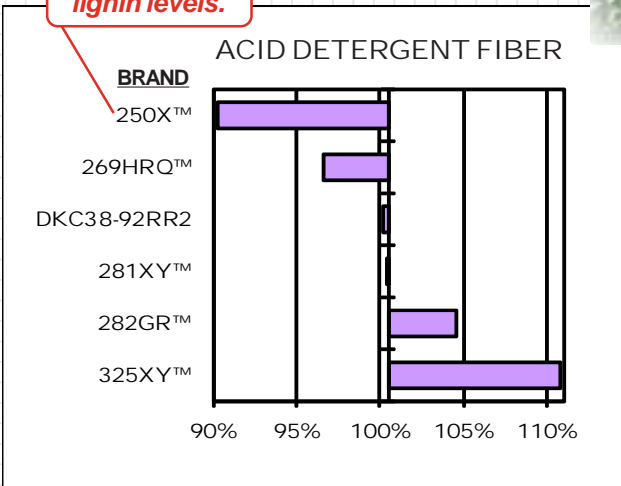
*Scored #1 of 11 entries (19.0 tons/acre)<sup>1</sup>*



<sup>1</sup>2011 New York Corn Silage Hybrid Tests, Cornell University - Very Early - Aurora, NY



**Considerably lower fiber and lignin levels.**

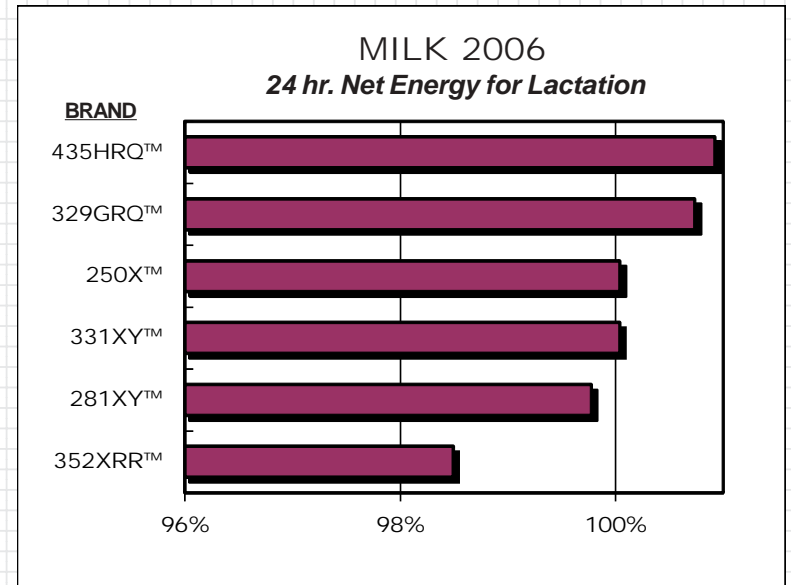


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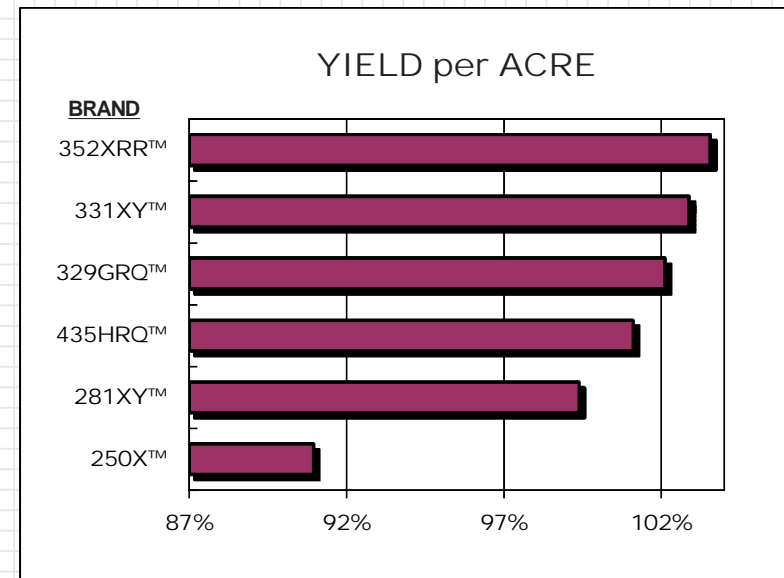
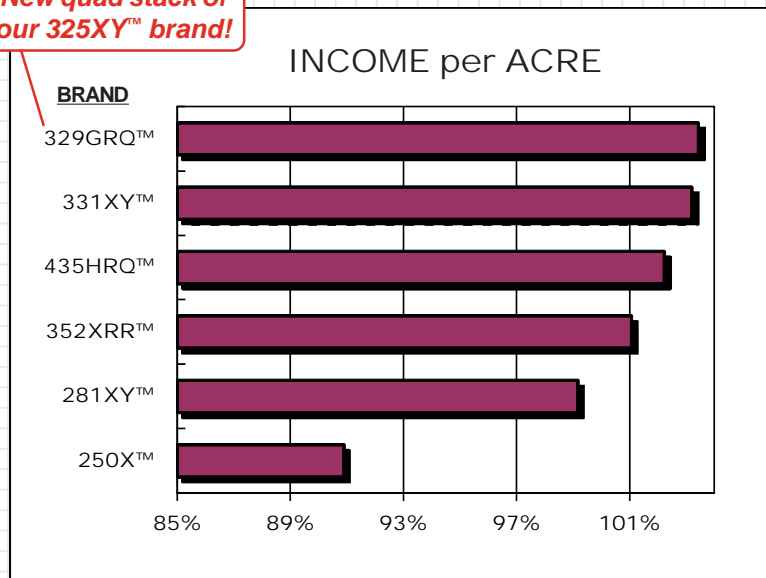
# VERY EARLY SEASON SILAGE

Two Year Data

Refuge	RM	BRAND	TRAIT
	83	250X™	
	86	281XY™	
	86	329GRQ™	Agrisure3000GT  LIBERTY LINK
	86	RPM 352XRR™	
	88	331XY™	
	89	RPM 435HRQ™	LIBERTY LINK

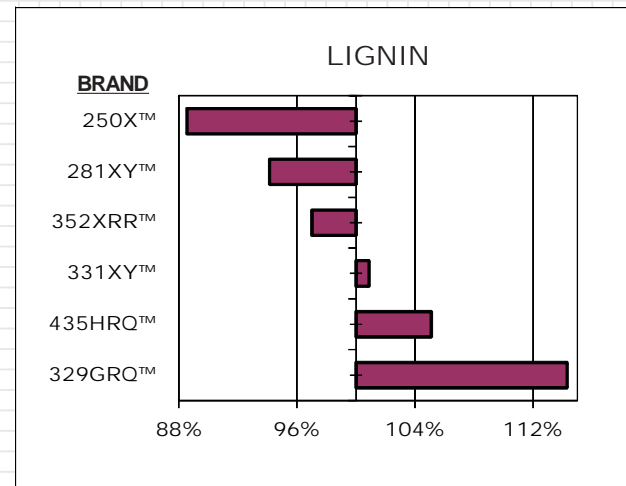
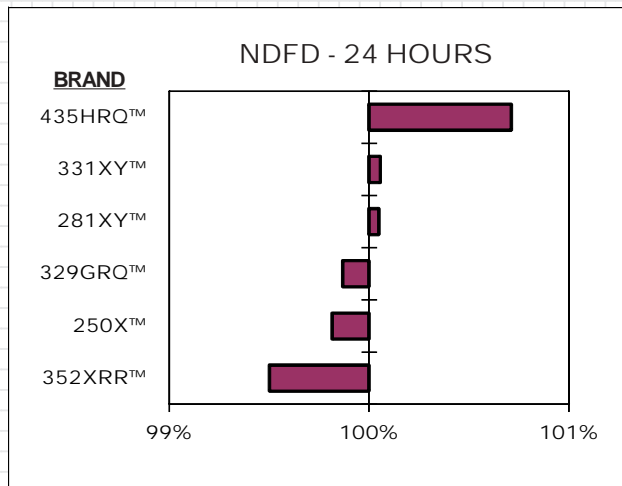
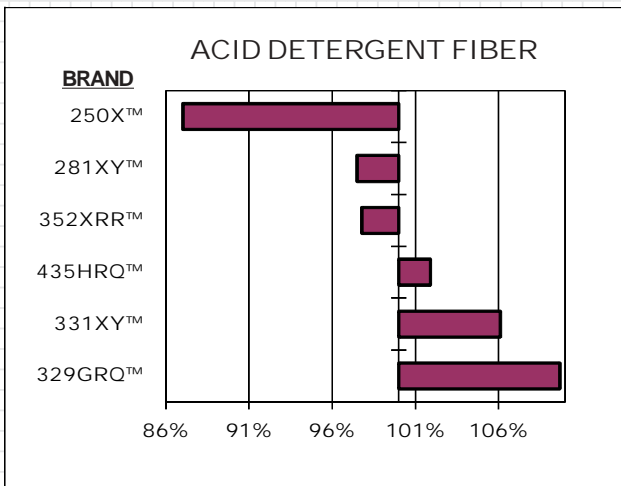
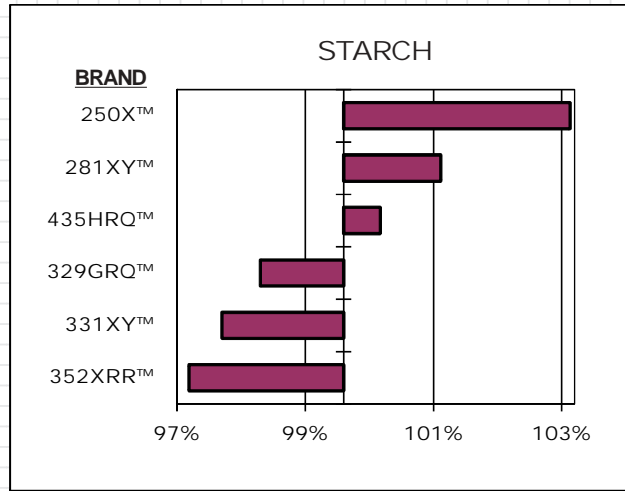
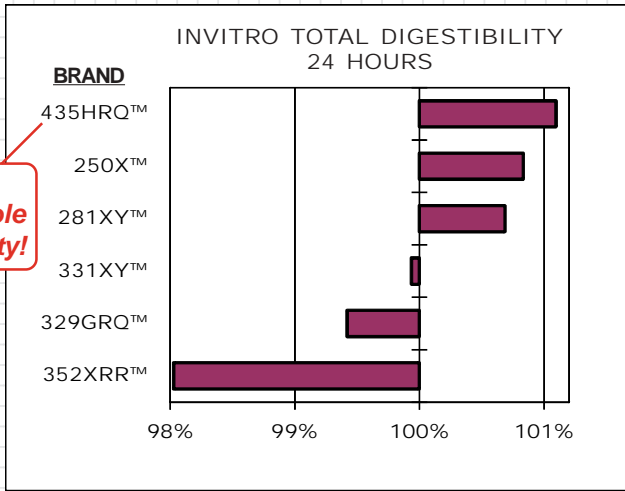


New quad stack of our 325XY™ brand!



Genetics First™













**Quad stack  
with super whole  
plant digestibility!**

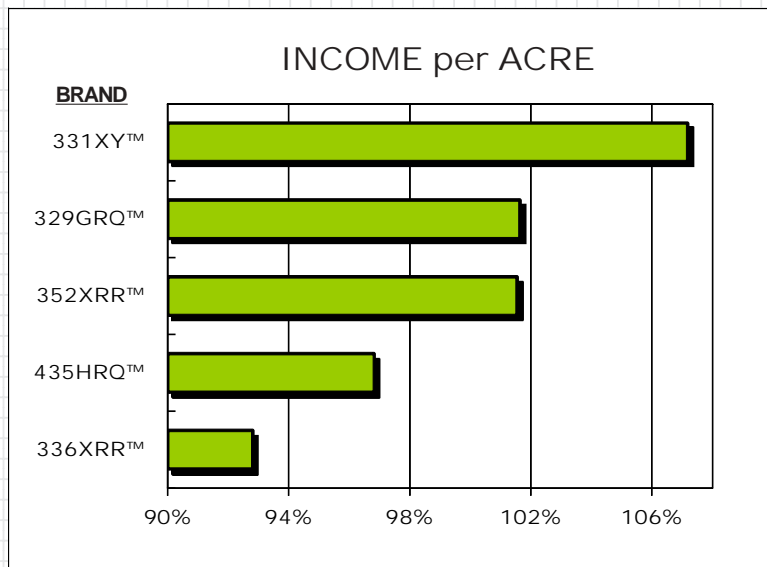
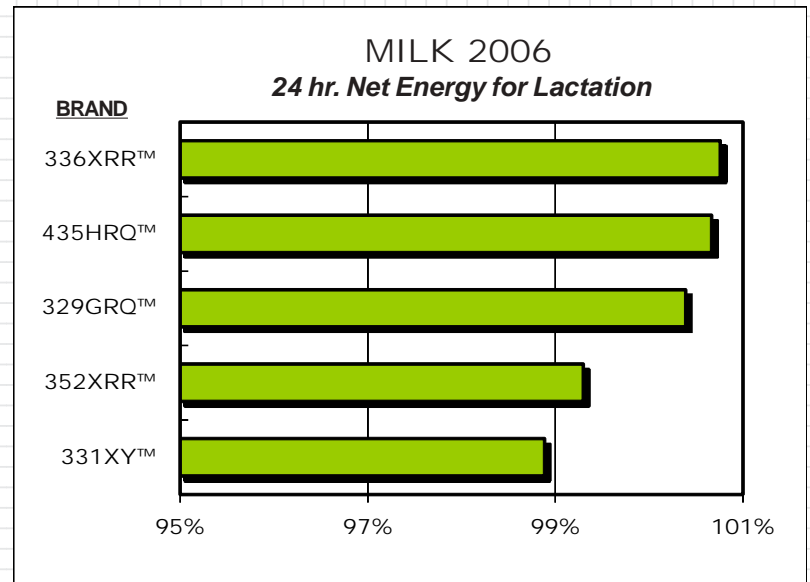


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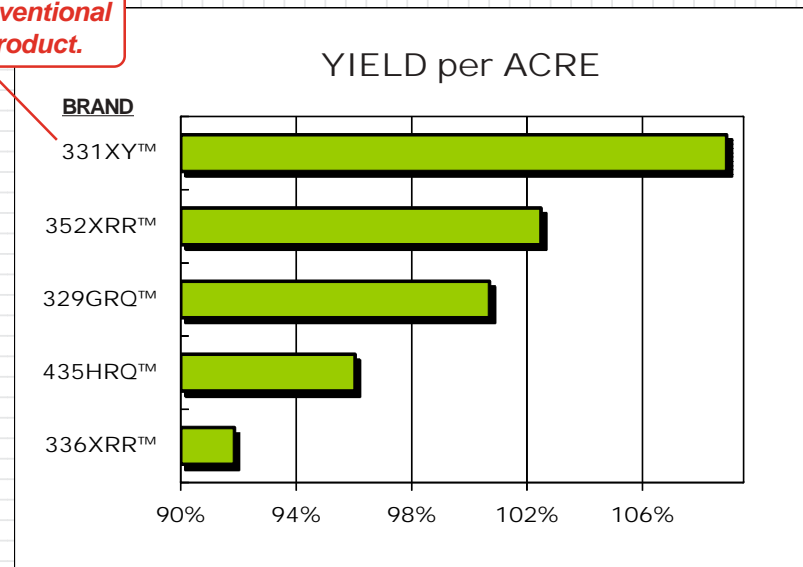
# EARLY SEASON SILAGE

One Year Data

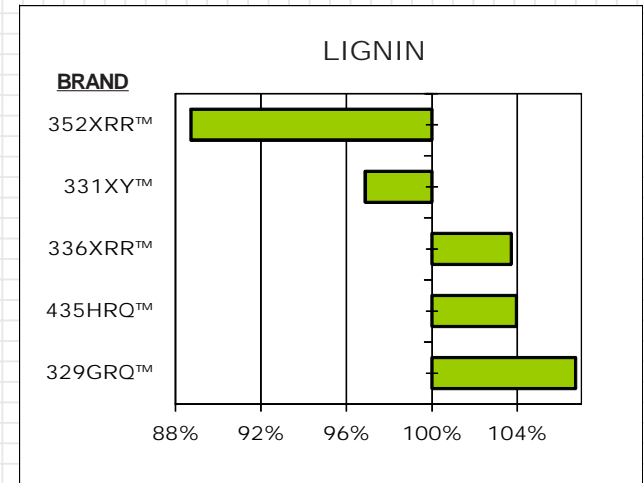
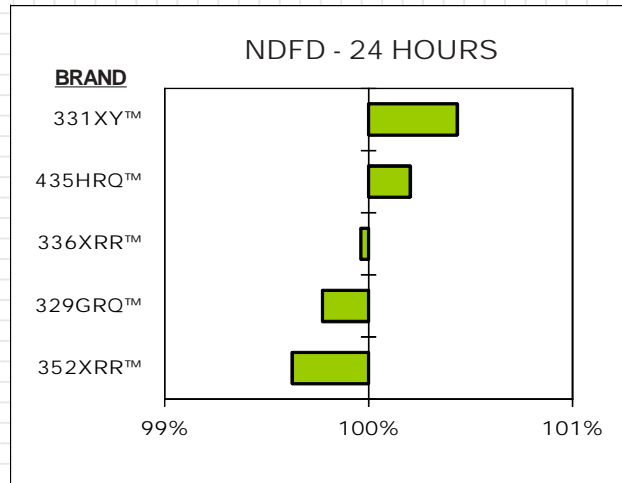
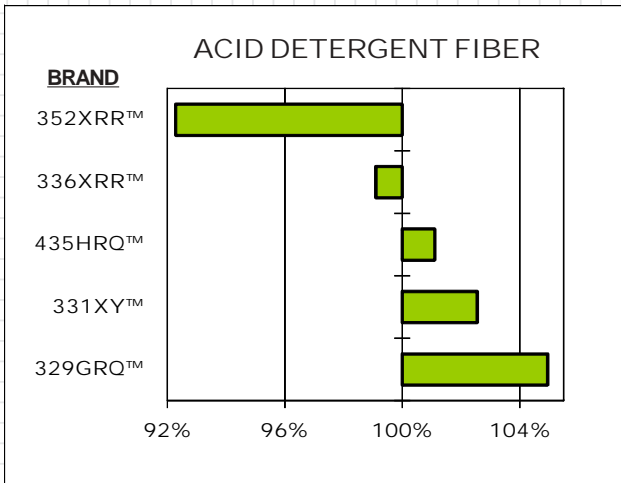
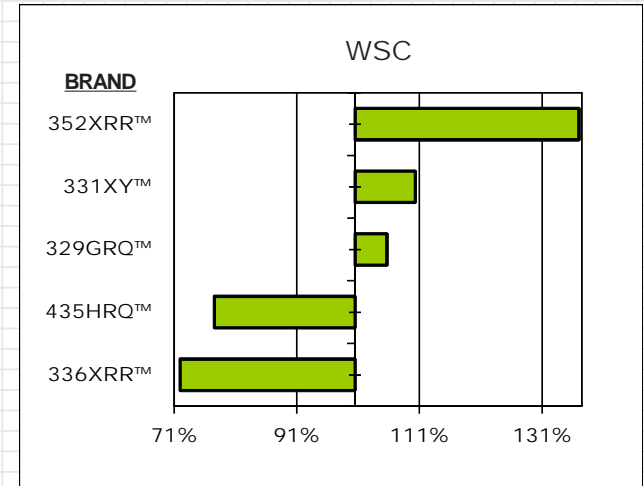
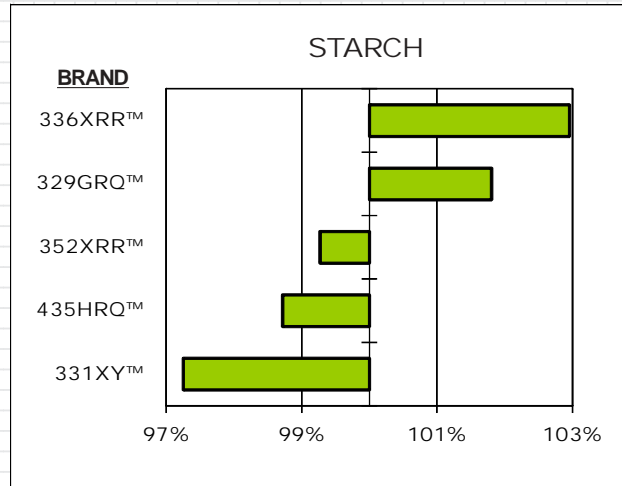
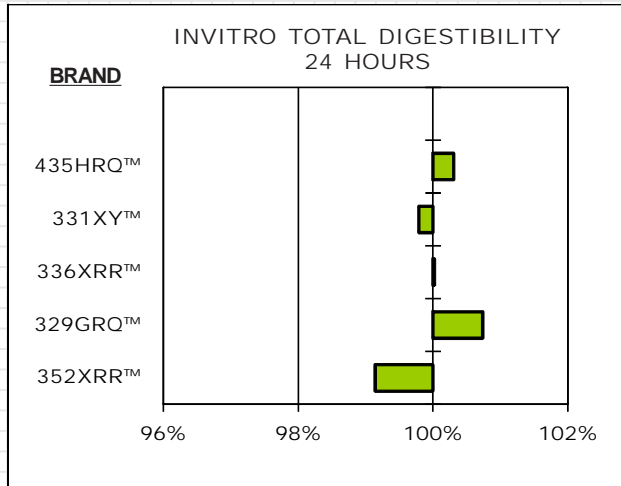
Refuge	RM	BRAND	TRAIT
	89	<b>RPM</b> 352XRR™	
	89	 329GRQ™	  
	89	<b>RPM</b> 336XRR™	
	90	 331XY™	
	90	<b>RPM</b> 435HRQ™	 



High yielding conventional product.



Genetics First™

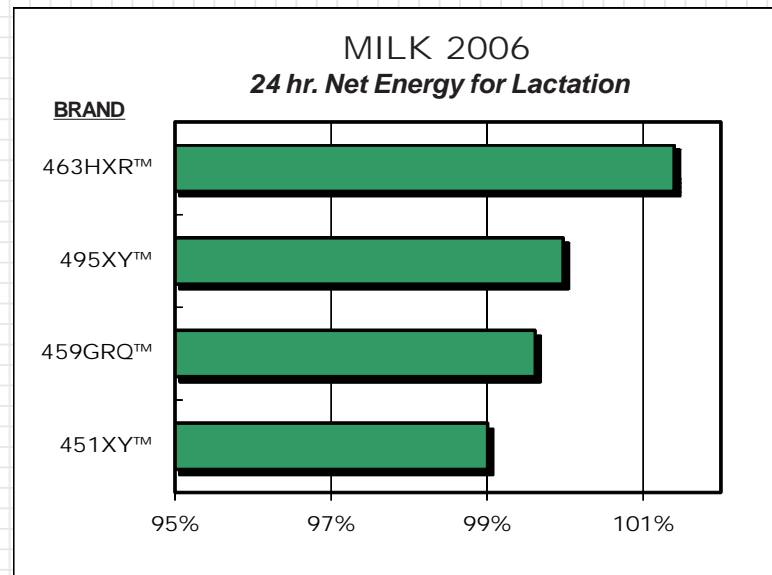


**DOEBLER'S**  
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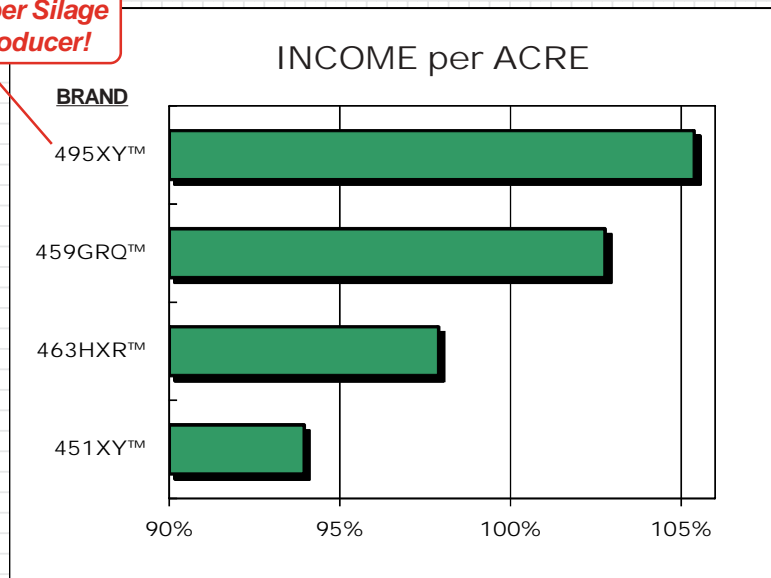
# EARLY SEASON SILAGE

Two Year Data

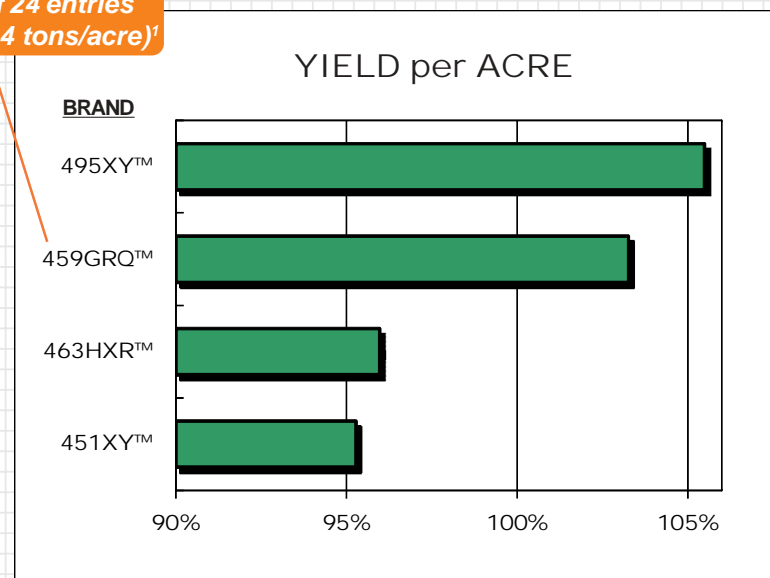
Refuge	RM	BRAND	TRAIT
	95	451XY™	
	97	459GRQ™	Agrisure 3000GT
	97	463HXR™	LIBERTY LINK
	99	495XY™	



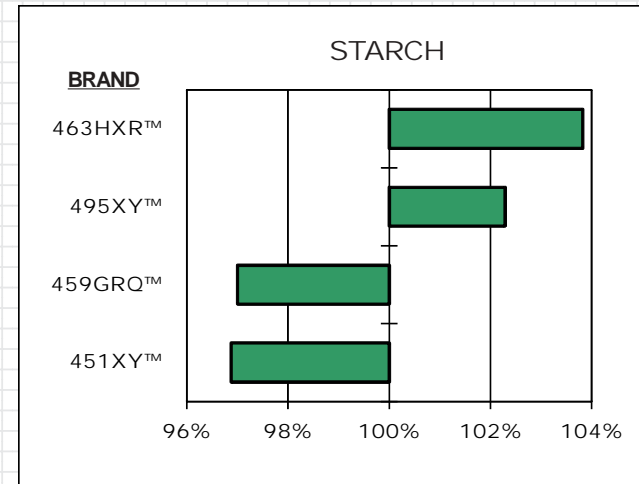
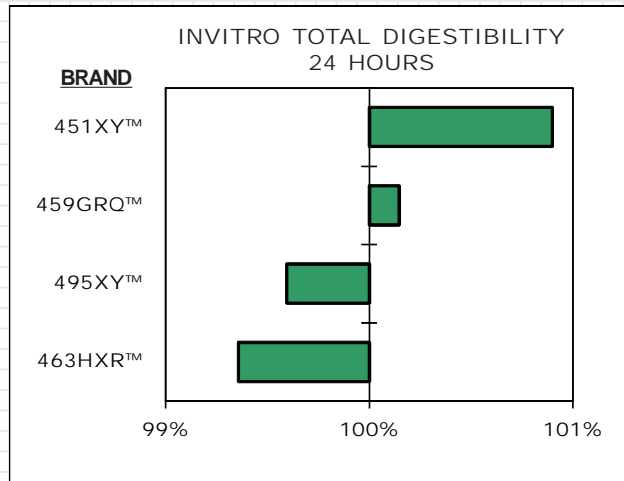
Another conventional Super Silage producer!



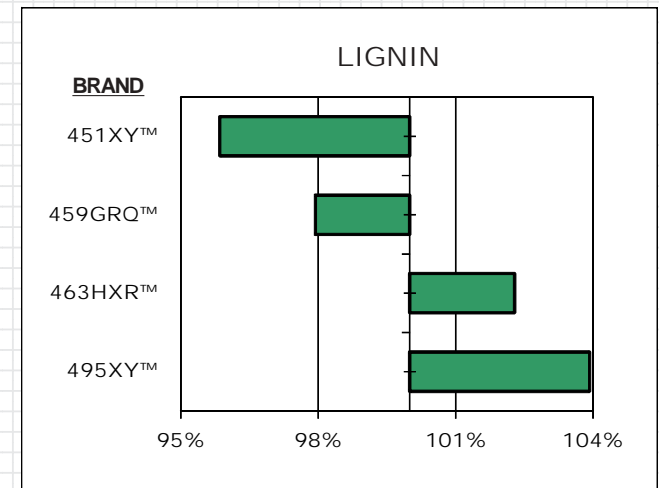
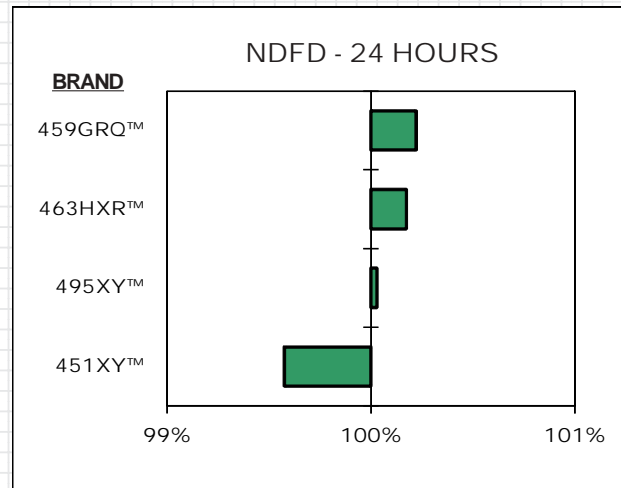
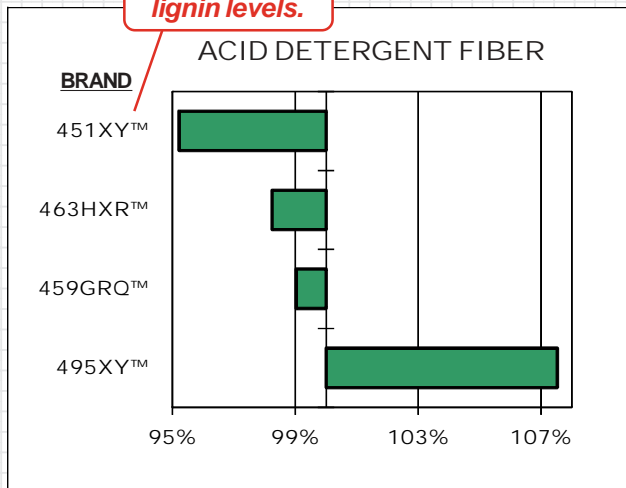
Scored #1 of 24 entries (14.4 tons/acre)<sup>1</sup>



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*Considerably lower fiber and lignin levels.*



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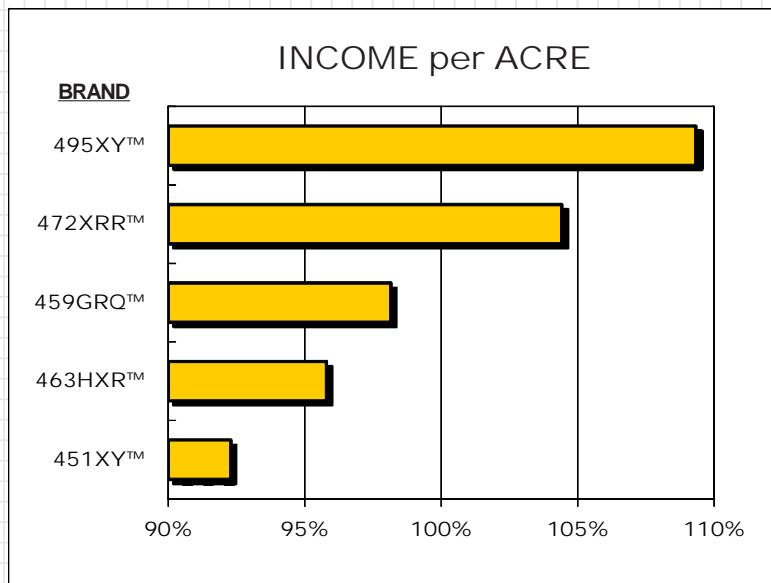
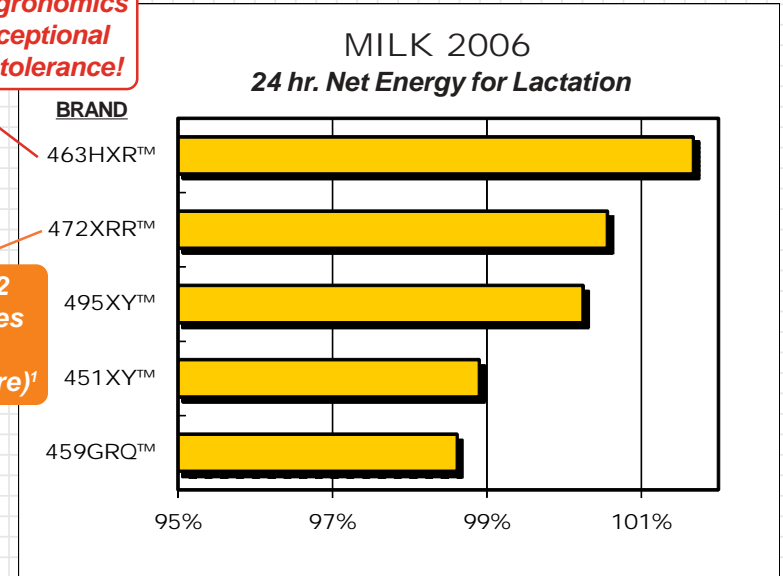
# EARLY MID SEASON SILAGE

One Year Data

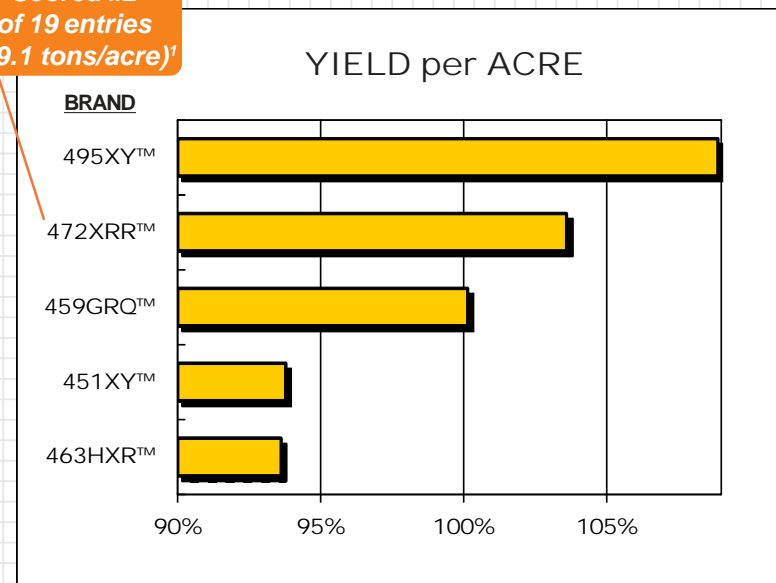
Refuge	RM	BRAND	TRAIT
	95	 451XY™	
	97	 459GRQ™	 
	97	 463HXR™	 
	99	 495XY™	
	99	 472XRR™	

*Strong agronomics  
with exceptional  
drought tolerance!*

*Scored #2  
of 19 entries  
(20,795  
Milk per Acre)<sup>1</sup>*

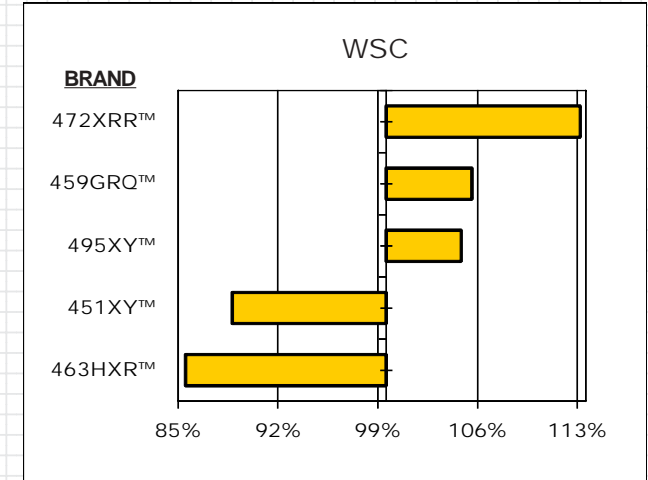
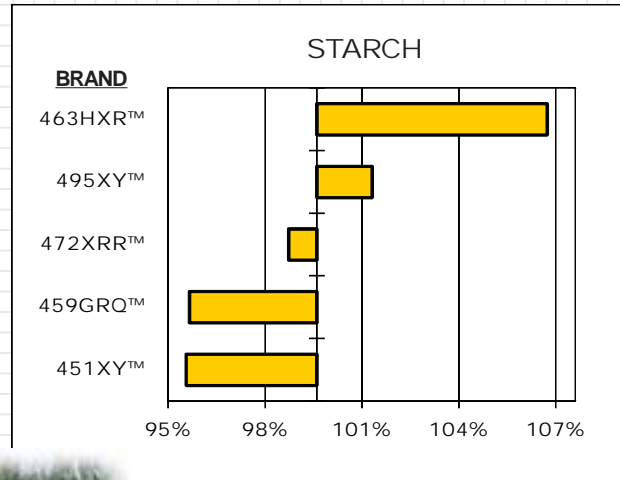
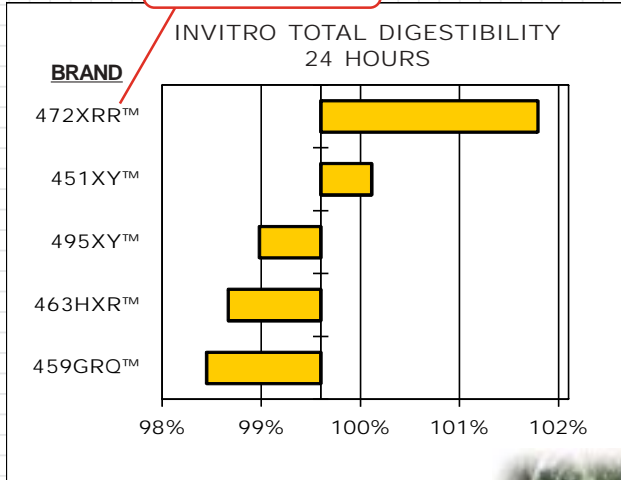


*Scored #2  
of 19 entries  
(19.1 tons/acre)<sup>1</sup>*

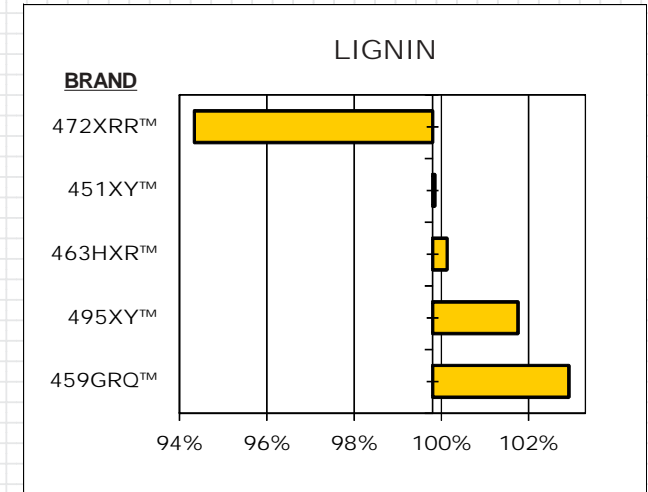
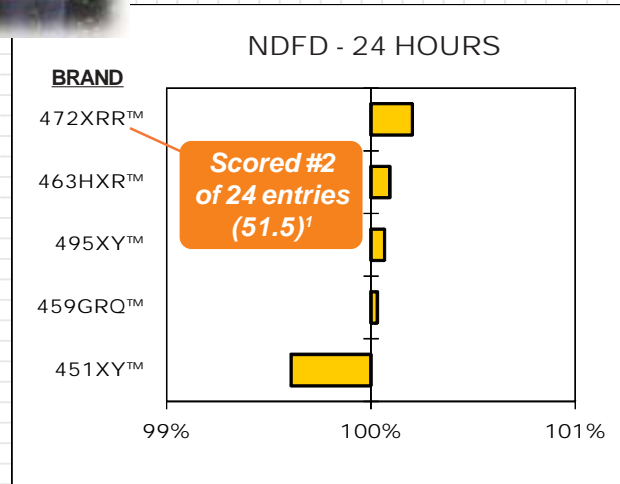
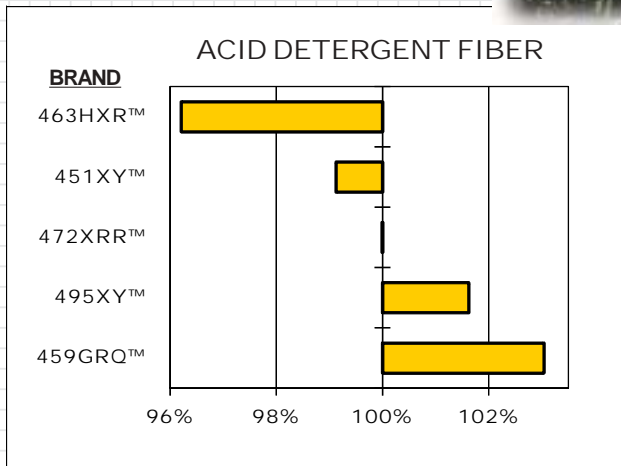


*Genetics First™*

**New RPM® brand  
with phenomenal  
forage quality.**



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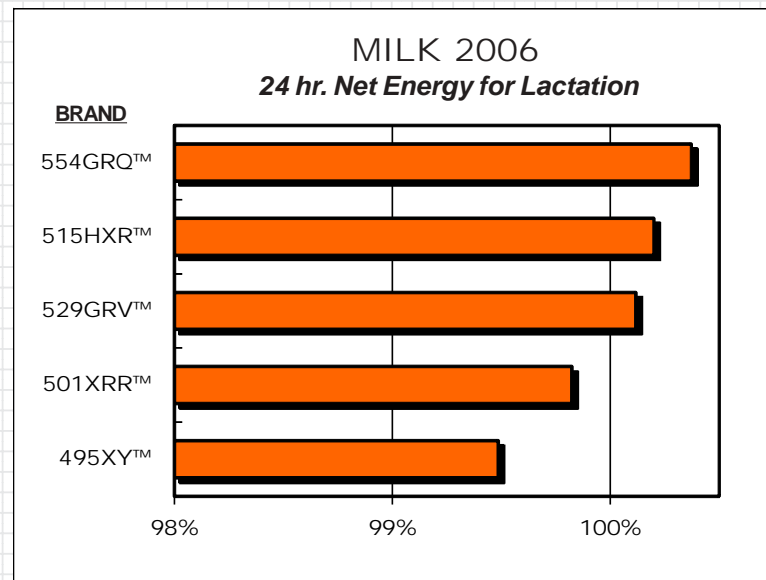


¹2011 PDMP Corn Silage Hybrid Project - Early Season - Centre Co., PA

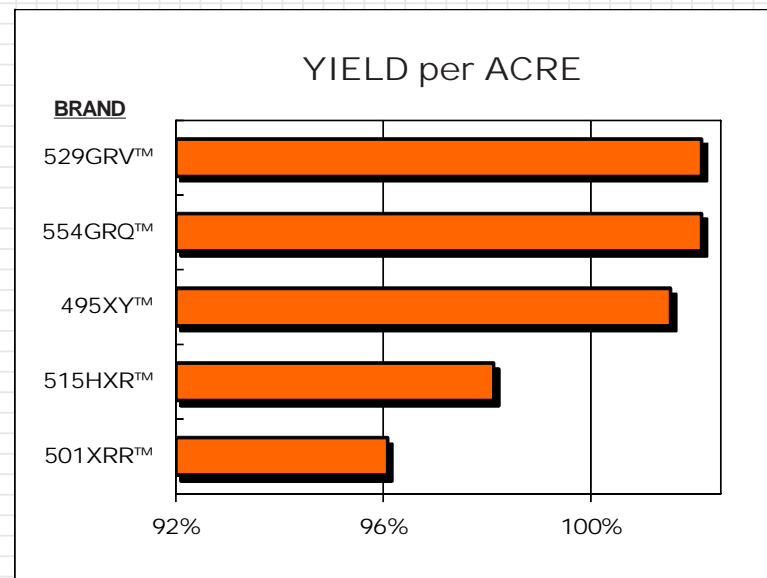
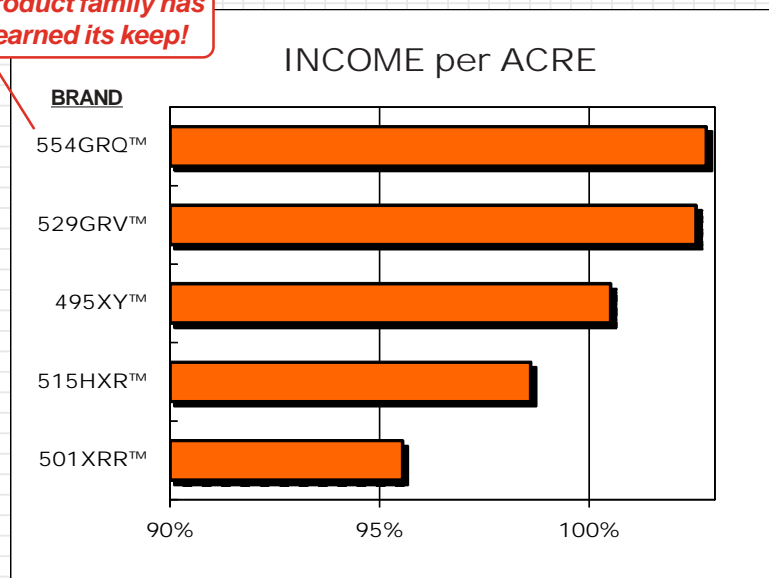
# EARLY MID SEASON SILAGE

Two Year Data

Refuge	RM	BRAND	TRAIT
	99	495XY™	
	101	RPM™ 501XRR™	
	102	RPM™ 515HXR™	
	103	529GRV™	
	105	554GRQ™	

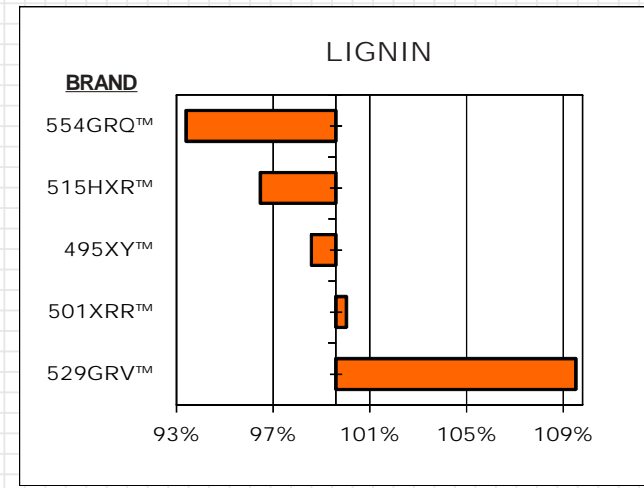
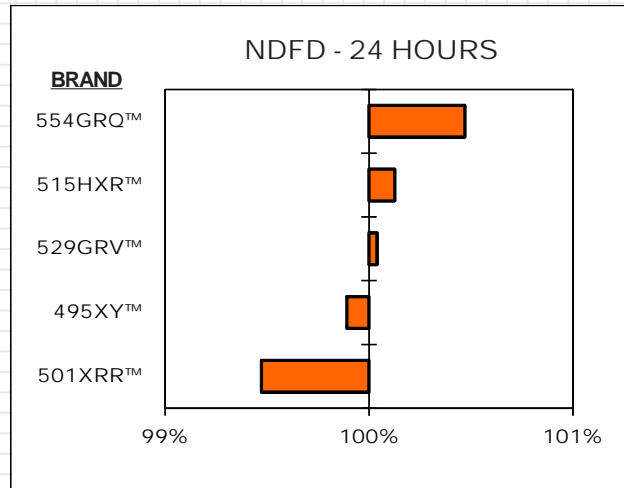
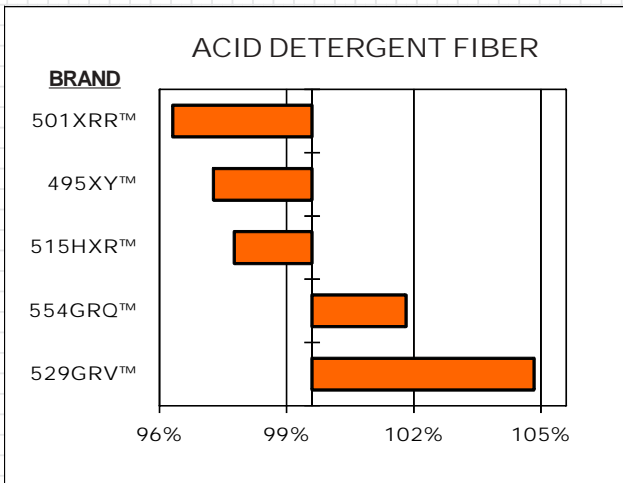
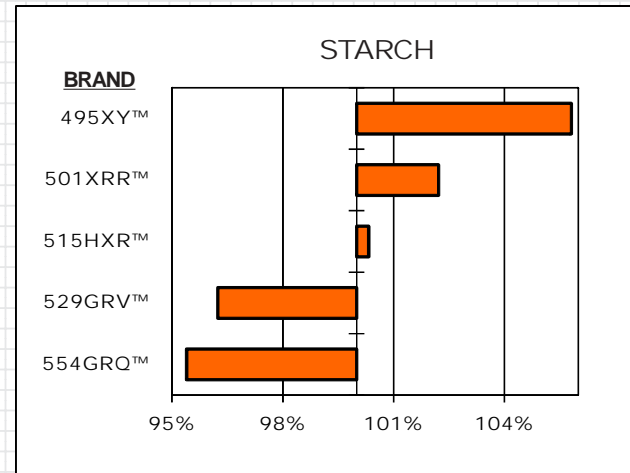
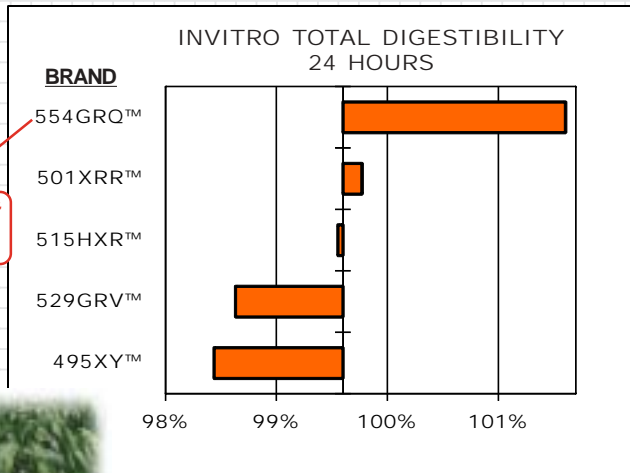


Since 2007, this product family has earned its keep!



Genetics First™

**Super whole plant digestibility!**
























































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**HYBRID SEED CORN for SILAGE** - tested in 2011 in Doebler's Corn Silage Evaluation System

	BRAND	RM	CHARACTERISTICS	TRAITS
	<b>250X™</b>	83	Large plant - Semi-flex ears - Great early season vigor	
	<b>269HRQ™</b>	86	Excellent digestibility & milk/acre - Strong staygreen 	  
	<b>281XY™</b>	86	Tall plant - Early flowering - Excellent plant health	
	<b>282GR™</b>	86	Outstanding agronomics - Great yield potential	
	<b>325XY™</b>	89	Medium tall plant - Semi-flex ear - Great standability	
	<b>329GRQ™</b>	89	Outstanding yield potential - Strong stalks & roots 	  
	<b>331XY™</b>	90	Large stature - Early flowering - Soft kernel texture	
	<b>336XRR™</b>	89	Medium-tall plant - Semi-flex girthy ears - High quality 	
	<b>352XRR™</b>	89	Medium-tall plant - Early flowering - Drought tolerance 	
	<b>435HRQ™</b>	90	Medium-tall plant - Semi-flex girthy ears 	  
	<b>451XY™</b>	95	Very tall plant - Girthy ear - Soft kernel texture	
	<b>459GRQ™</b>	97	Tall plant - Soft grain texture - Girthy semi-flex ear 	  
	<b>463HXR™</b>	97	Medium-tall plant - Very girthy ear - Flared husk 	  
	<b>472XRR™</b>	99	Tall plant - Medium soft grain texture - Great emergence 	
	<b>495XY™</b>	99	Very large plant - Wide, upright leaves - Long flex ear	

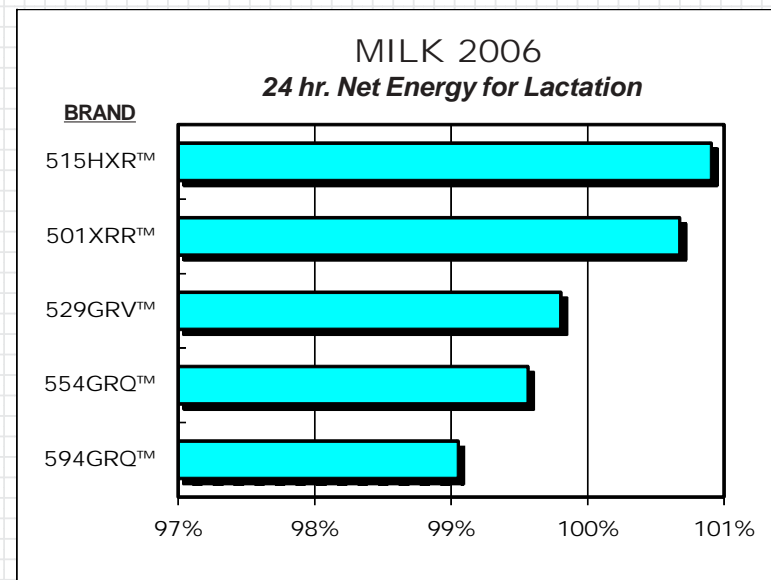
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BRAND	RM	CHARACTERISTICS	TRAITS
 <b>501XRR™</b>	101	Very tall plant - Long flex ear - Wide upright leaves	
 <b>515HXR™</b>	102	Very tall plant - Excellent stalks - Flared husks 	
 <b>529GRV™</b>	103	Strong agronomics - Large flex ears - High quality 	
 <b>554GRQ™</b>	105	Tall plant - Long flex ear - Excellent plant health 	
 <b>555XY™</b>	105	Tall plant - Excellent agronomics - Widely adapted	
 <b>594GRQ™</b>	107	Very tall plant - Long flex ears - Great standability 	
 <b>601XY™</b>	108	Tall plant - Large girthy flex ears - Super standability	
 <b>617AM1™</b>	109	 Great emergence & standability 	
 <b>628HRQ™</b>	110	Medium plant - Flex ears - Excellent staygreen 	
 <b>633HXR™</b>	110	Tall plant - Flex ears - Very good standability 	
 <b>667AM-R™</b>	112	 Tall plant - Strong agronomics 	
 <b>674GRQ™</b>	112	Tall plant - Semi-flex girthy ears - Upright leaves 	
 <b>678GRV™</b>	113	Tall plant - Girthy ears - Upright leaves 	
 <b>694HRQ™</b>	114	Tall, upright plant - Long flex ears - Strong stalks 	
 <b>718HX™</b>	116	Very girthy ears - Medium soft kernels - Wide leaves 	
 <b>727AM1™</b>	116	 Large flex ears - Great standability 	
 <b>728HXR™</b>	116	Very tall plant - Large flex ears - Excellent nutrition 	
 <b>801XY™</b>	119	Tall plant - Upright leaves - Girthy flex ears	

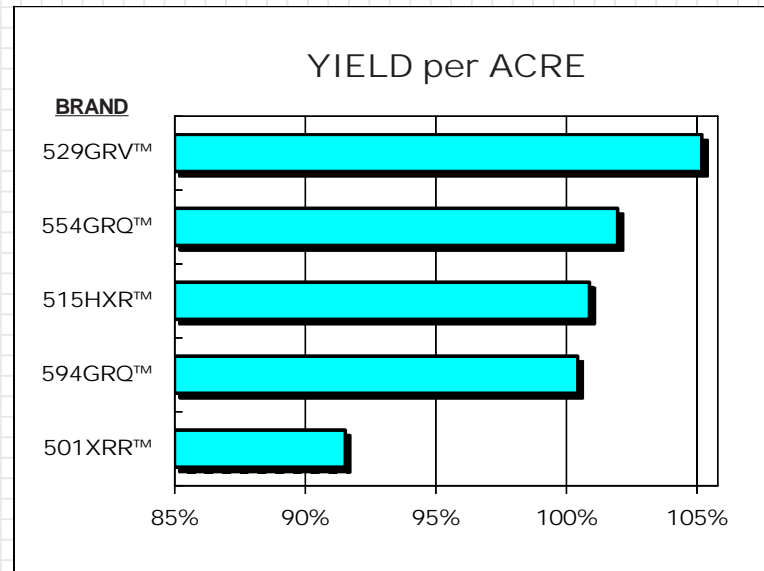
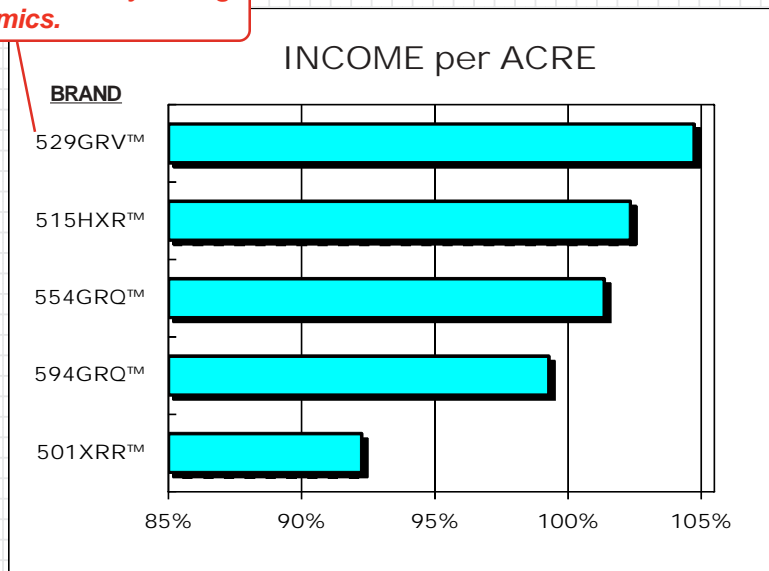
# MID SEASON SILAGE

One Year Data

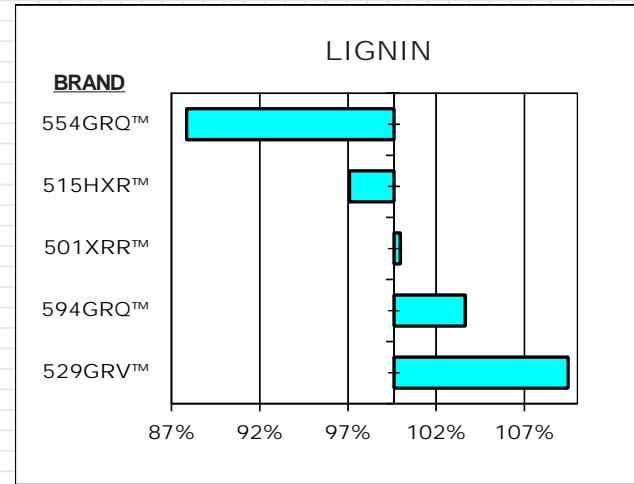
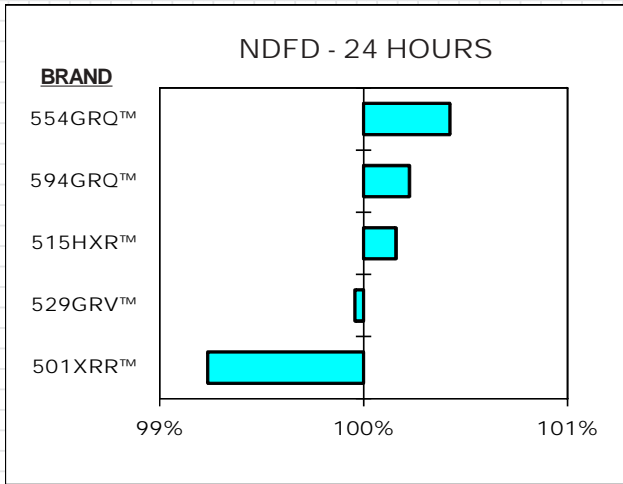
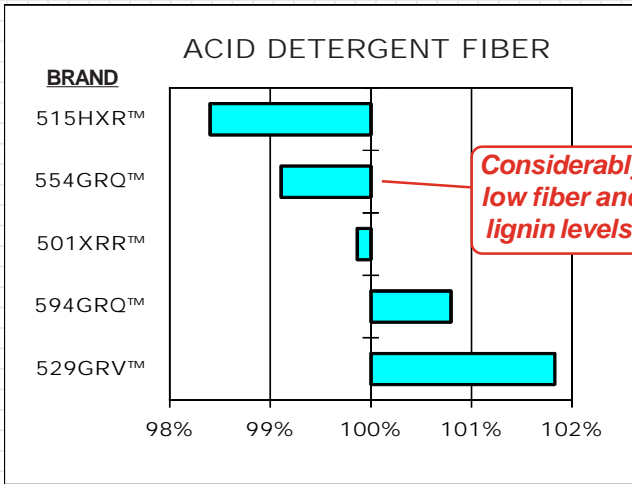
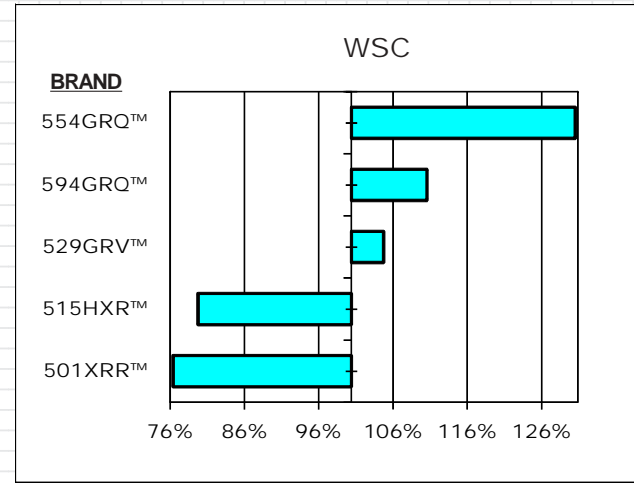
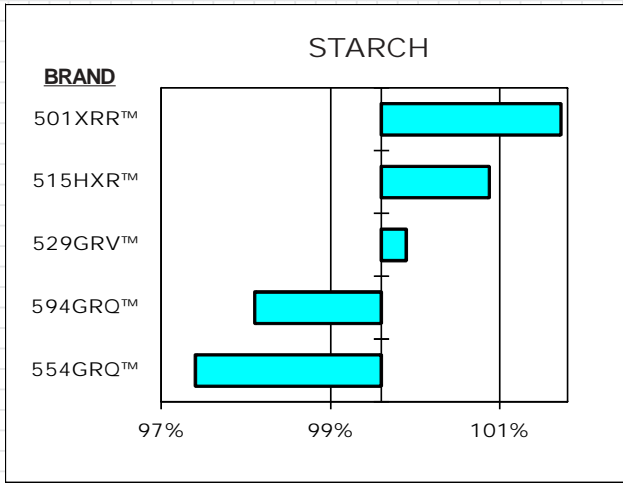
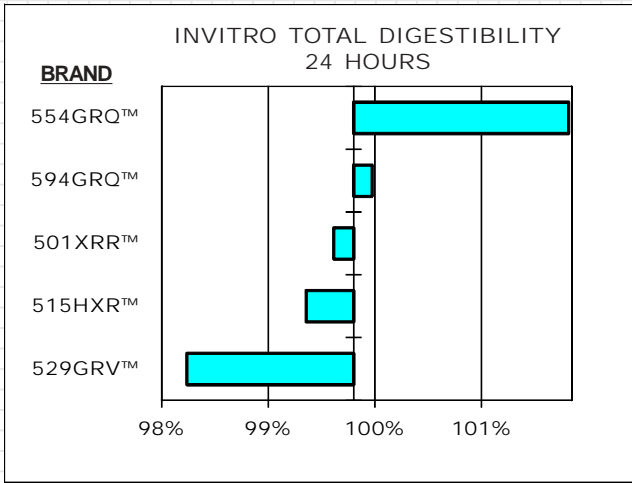
Refuge	RM	BRAND	TRAIT
	101	<b>RPM 501XRR™</b>	
	102	<b>RPM 515HXR™</b>	
	103	<b>529GRV™</b>	
	105	<b>554GRQ™</b>	
	107	<b>594GRQ™</b>	



*New for 2012, this product with the Agrisure Viptera™ trait stack has very strong agronomics.*



*Genetics First™*



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*"Your Regional Advantage"®*

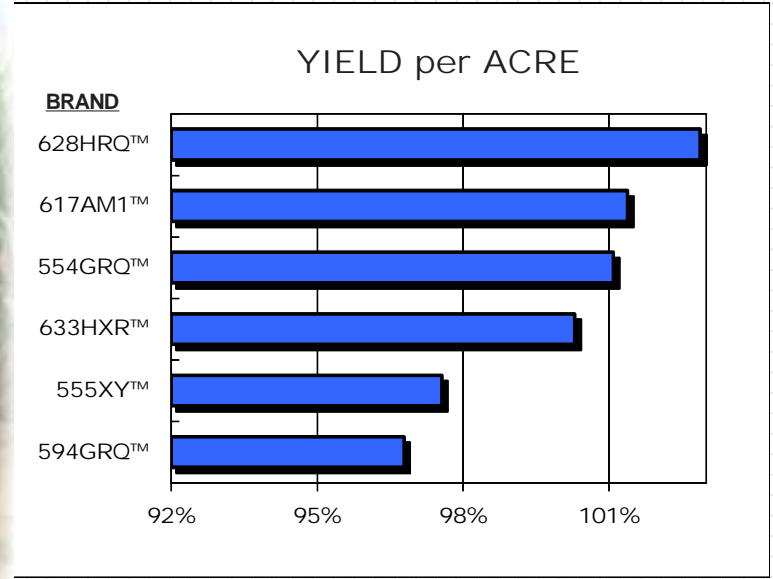
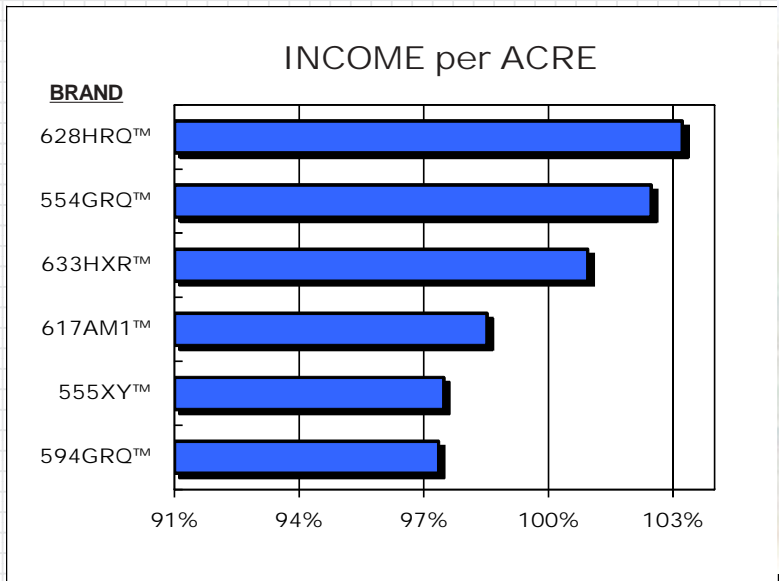
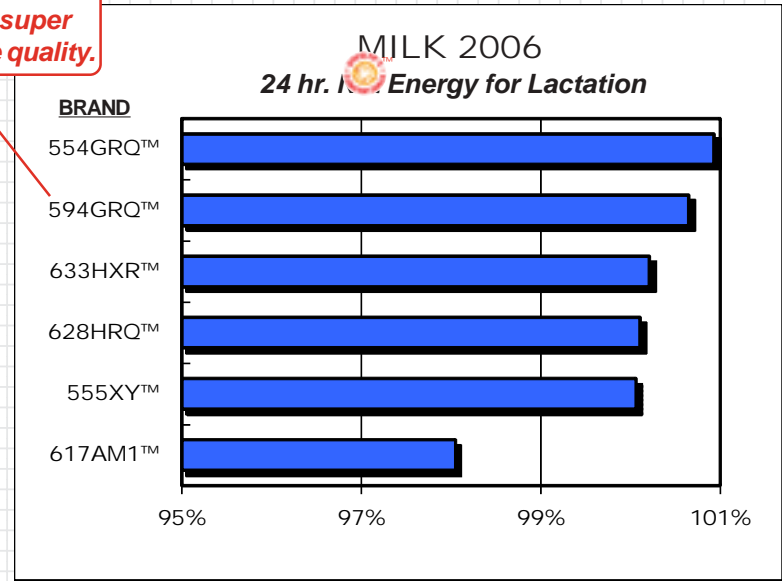
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# MID SEASON SILAGE

Two Year Data

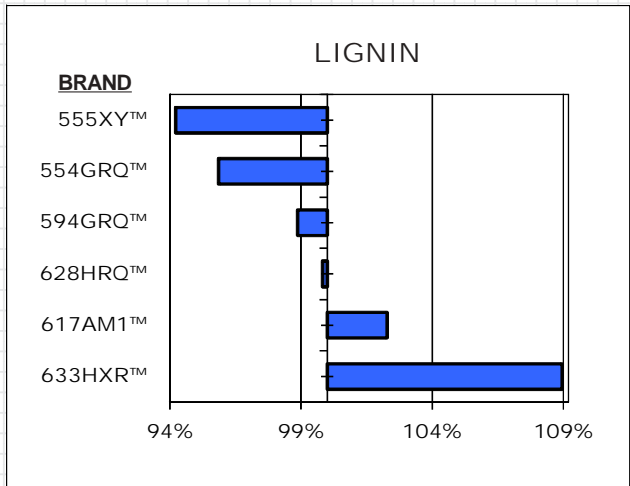
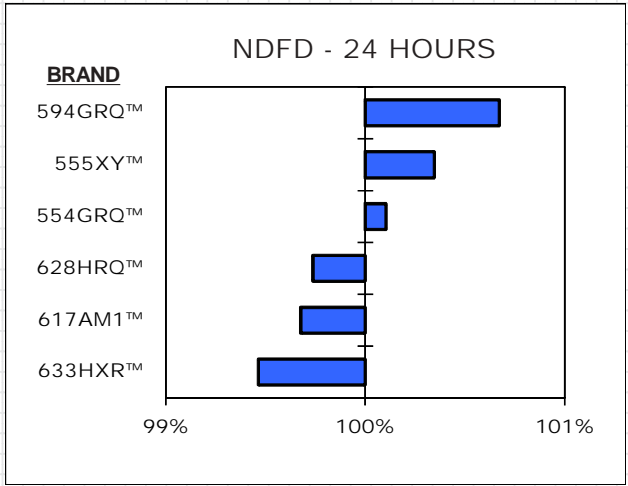
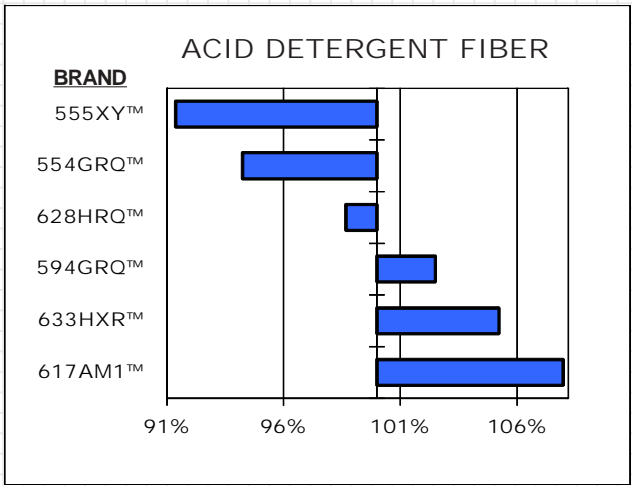
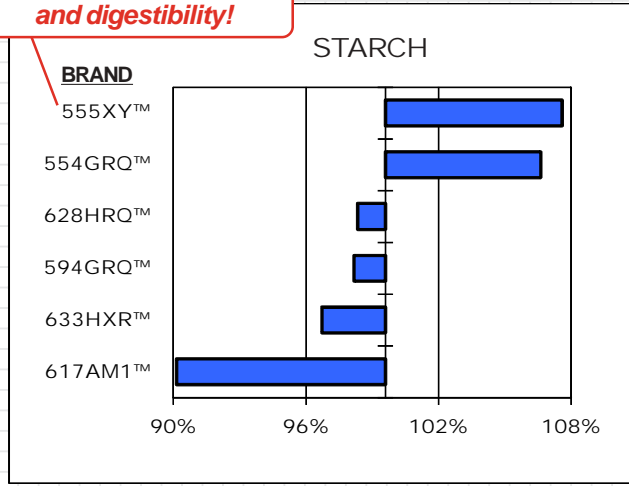
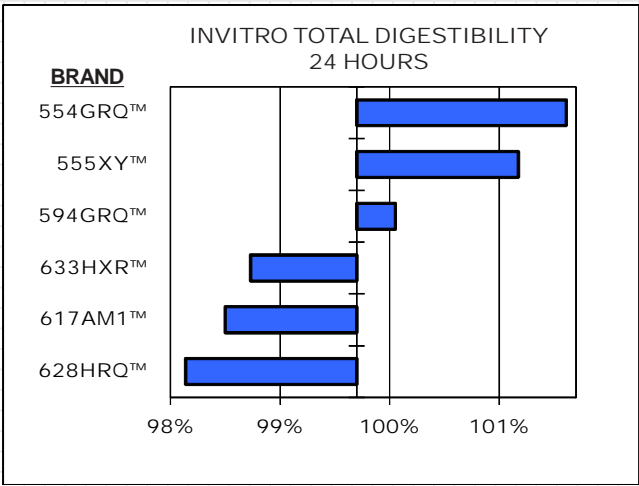
*This new quad stack has super forage quality.*

Refuge	RM	BRAND	TRAIT
	105	554GRQ™	Agrisure3000GT LIBERTY LINK
	105	555XY™	
	107	594GRQ™	Agrisure3000GT LIBERTY LINK
	109	AcreMax I RPM 617AM1™	LIBERTY LINK
	110	RPM 628HRQ™	LIBERTY LINK
	110	RPM 633HXR™	LIBERTY LINK



*Genetics First™*

*Rises to the top again with super starch levels and digestibility!*



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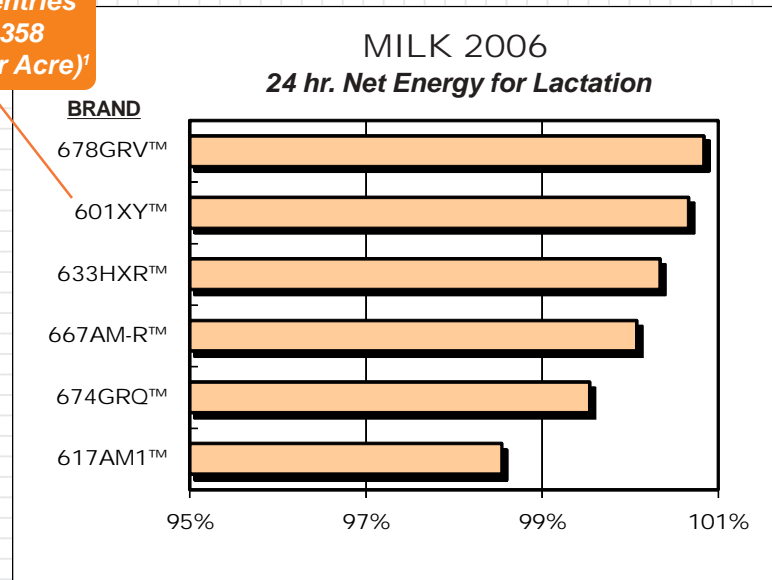
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# MID LATE SEASON SILAGE

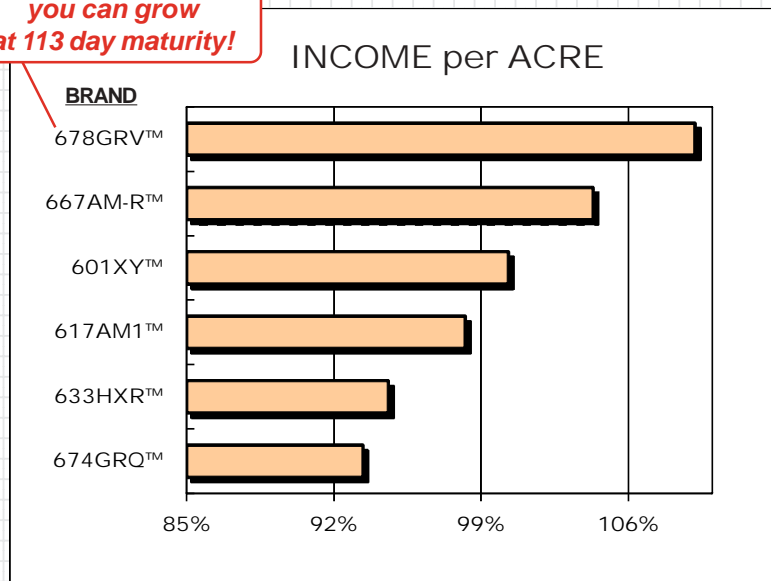
One Year Data

Refuge	RM	BRAND	TRAIT
	108	601XY™	
	109	AcreMax1  RPM 617AM1™	
	110	RPM 633HXR™	
	112	AcreMax1  RPM 667AM-R™	
	112	674GRQ™	
	113	678GRV™	

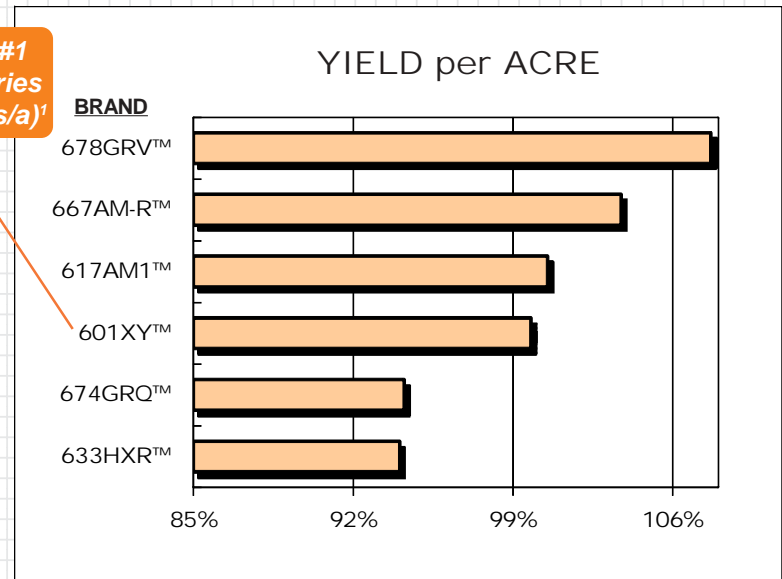
Scored #1 of 27 entries (24,358 Milk per Acre)<sup>1</sup>



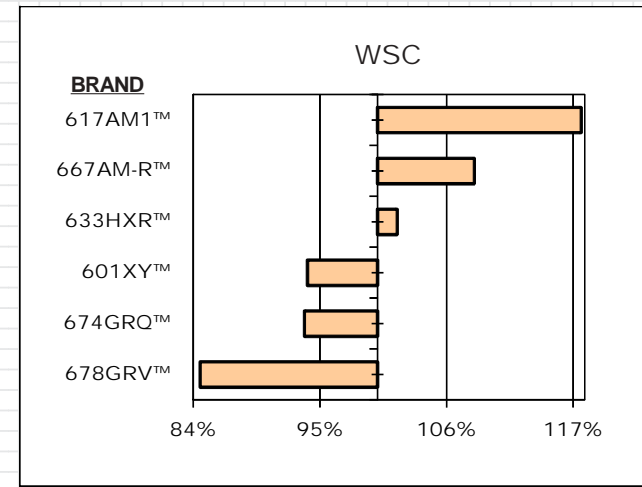
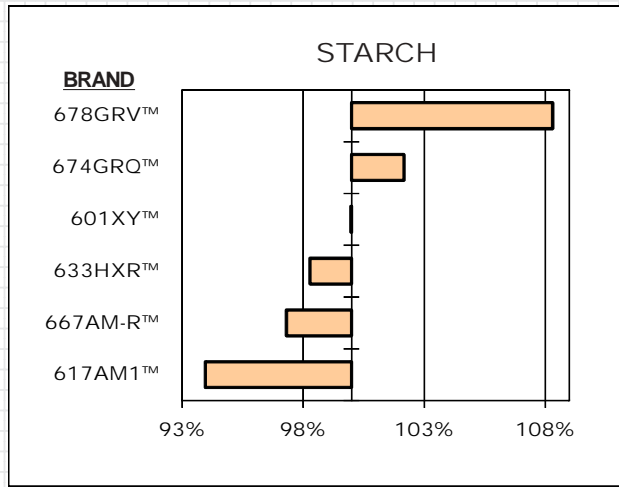
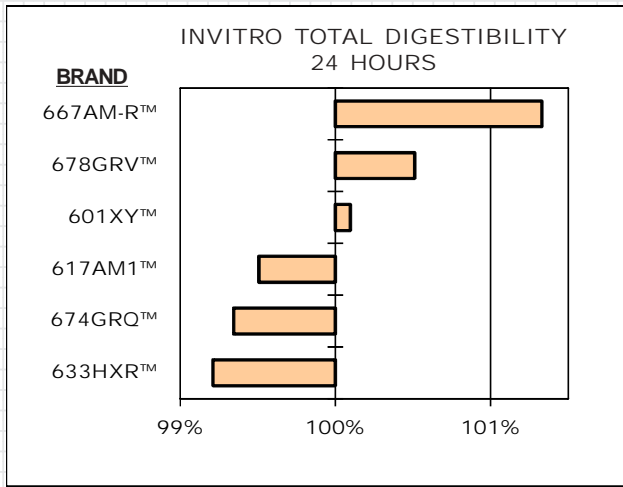
Simply the BEST forage quality product you can grow at 113 day maturity!



Scored #1 of 27 entries (18.7 tons/a)<sup>1</sup>



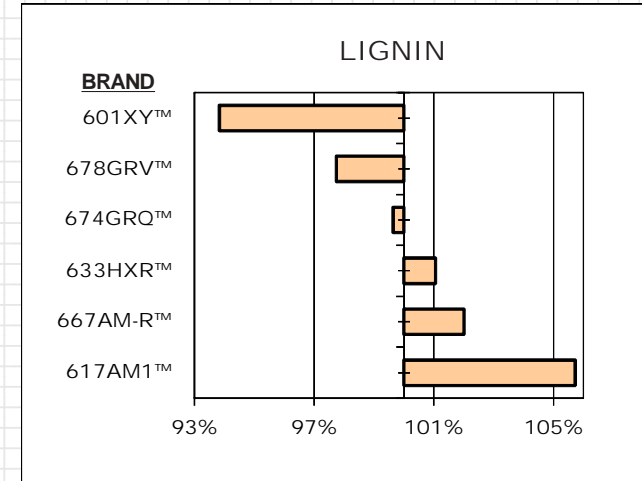
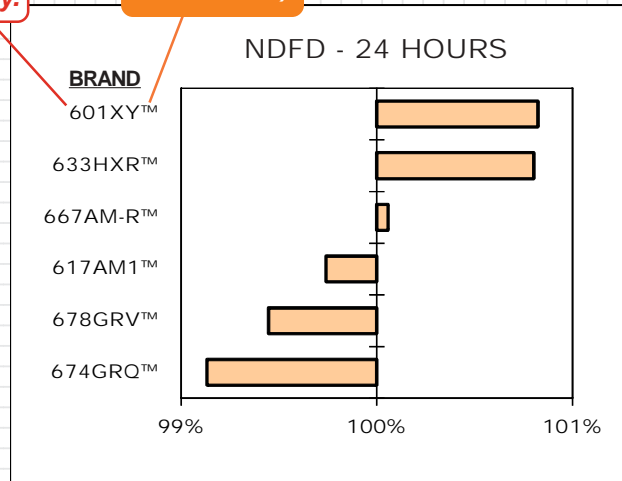
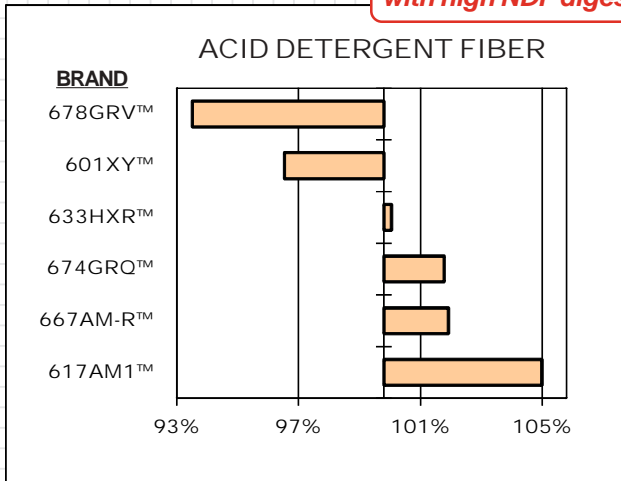
<sup>1</sup>2011 PDMP Corn Silage Hybrid Project - Early Season - Centre Co., PA



**Outstanding conventional product with high NDF digestibility.**

**Scored #3 of 21 entries (55.8; 53.3 30 hr NDFD)<sup>1</sup>**

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*"Your Regional Advantage"®*



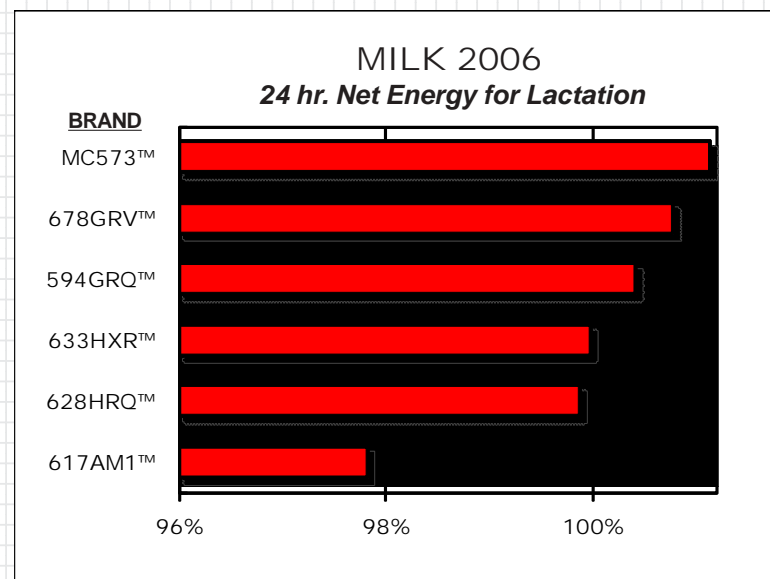
<sup>1</sup>2011 New York Corn Silage Hybrid Tests, Cornell University - Mid Late - Aurora, NY; Groveland Station, NY

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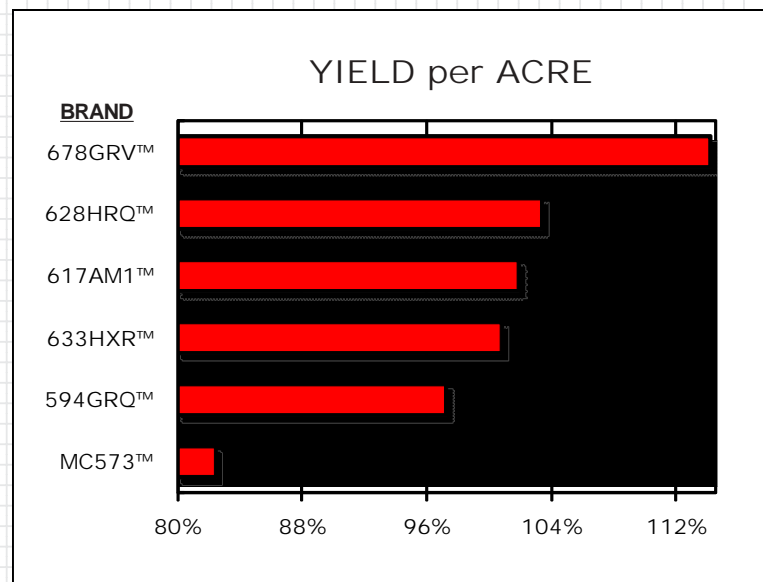
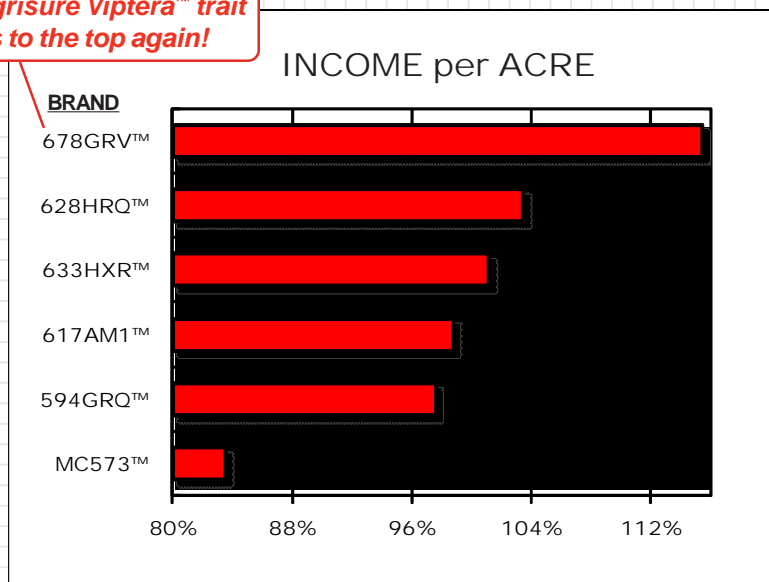
# MID LATE SEASON SILAGE

Two Year Data

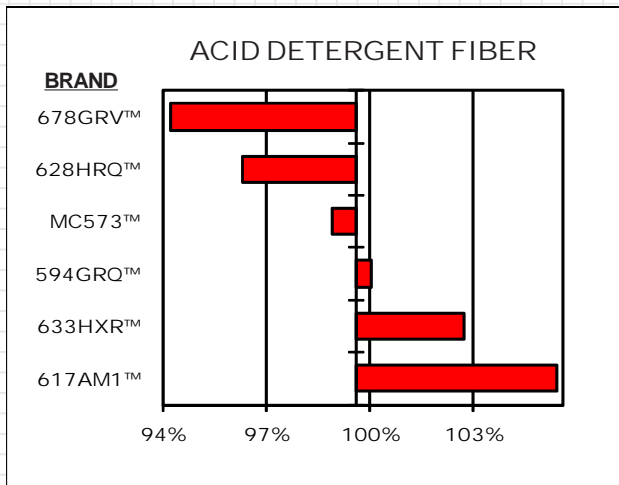
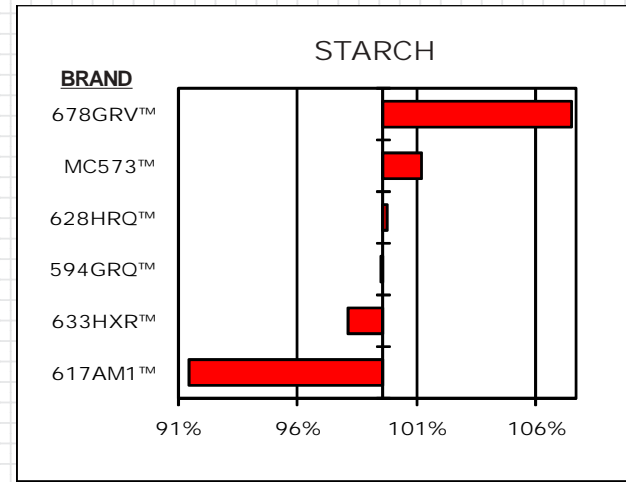
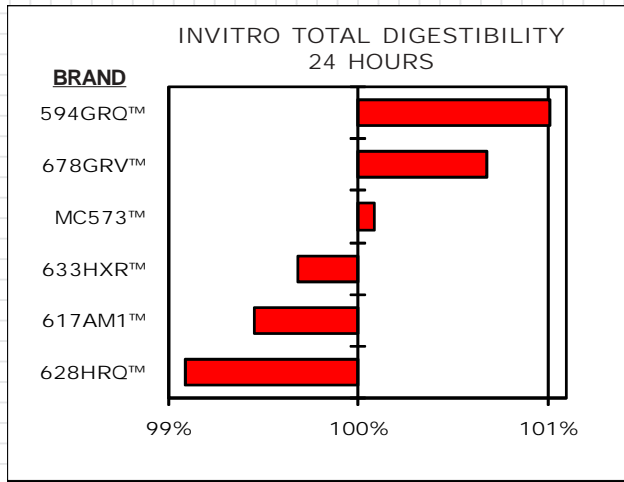
Refuge	RM	BRAND	TRAIT
	107	594GRQ™	Agrisure3000GT LIBERTY LINK
	109	AcreMax1  RPM 617AM1™	LIBERTY LINK
	110	RPM 628HRQ™	LIBERTY LINK
	110	RPM 633HXR™	LIBERTY LINK
	111	MASTER'S CHOICE MC573	
	113	678GRV™	AgrisureViptera LIBERTY LINK



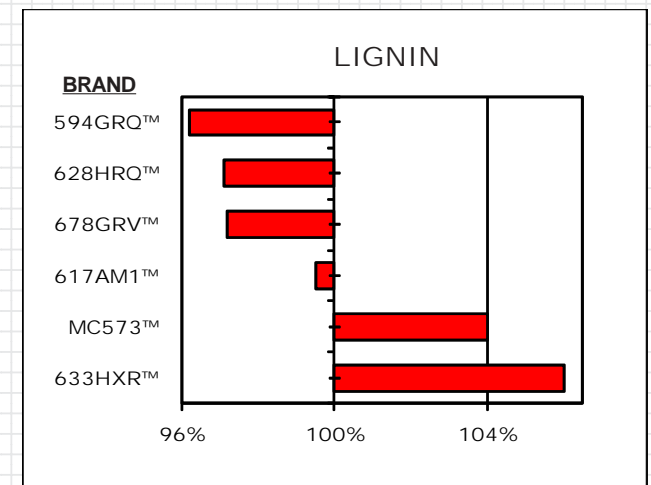
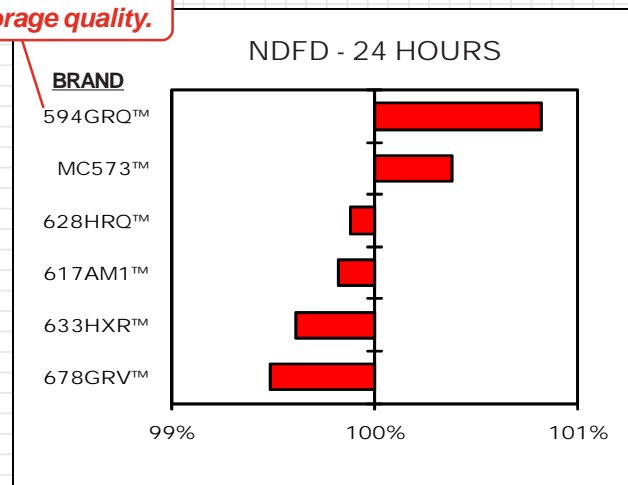
*New for 2012, this product with the Agrisure Viptera™ trait stack rises to the top again!*



*Genetics First™*



*Second-to-none  
forage quality.*



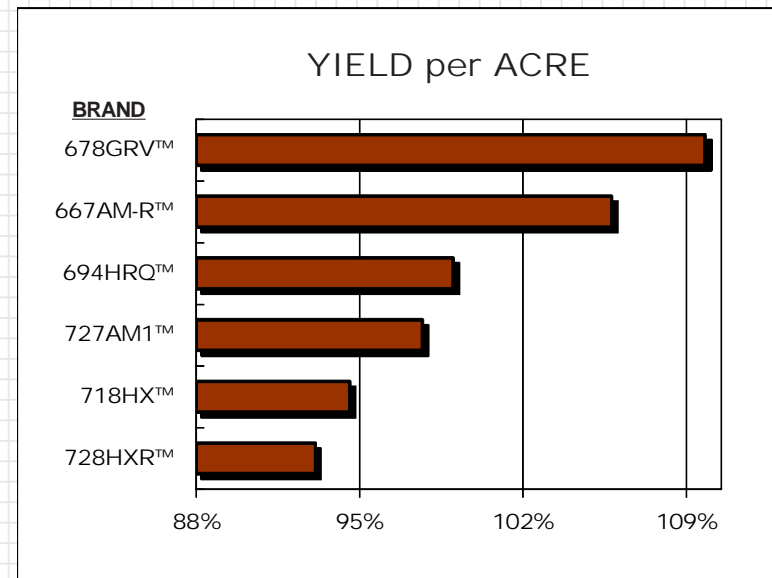
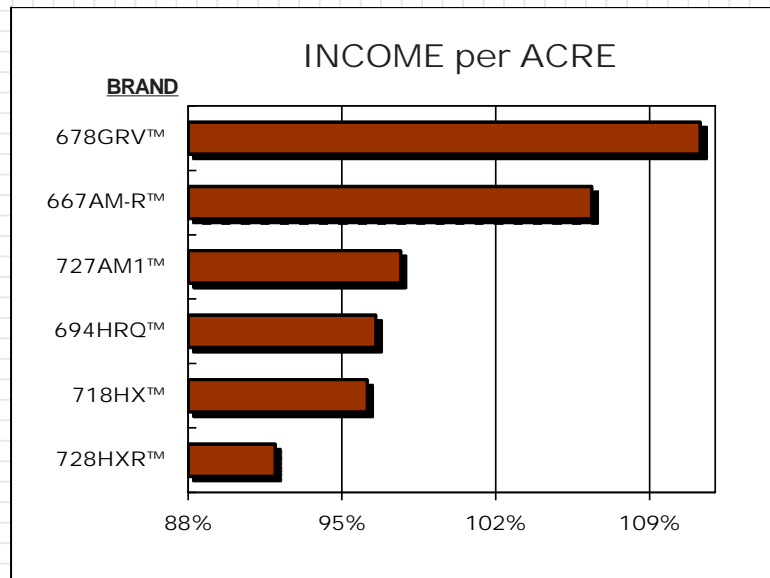
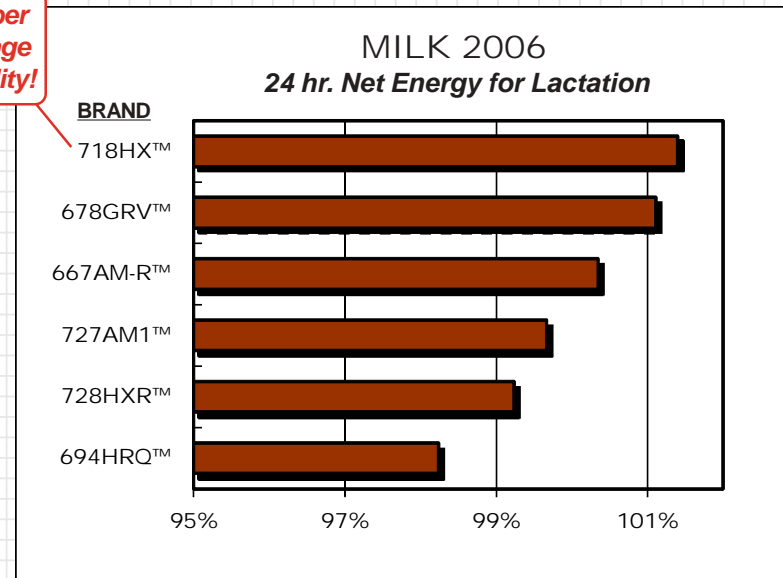
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# LATE SEASON SILAGE

One Year Data

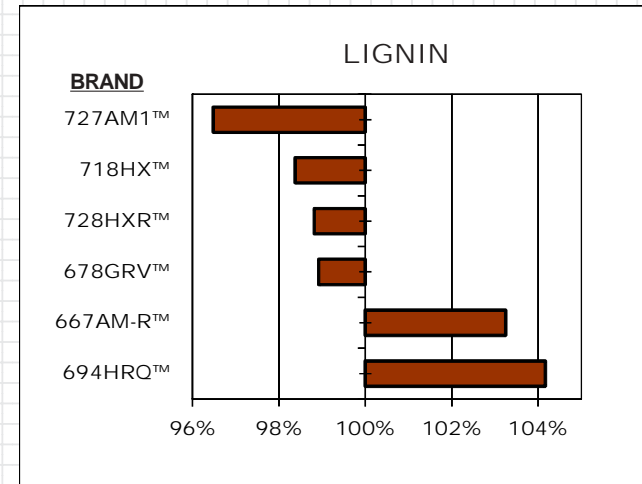
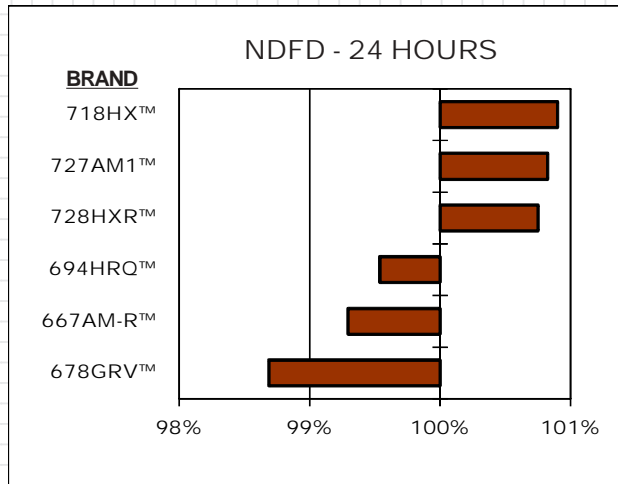
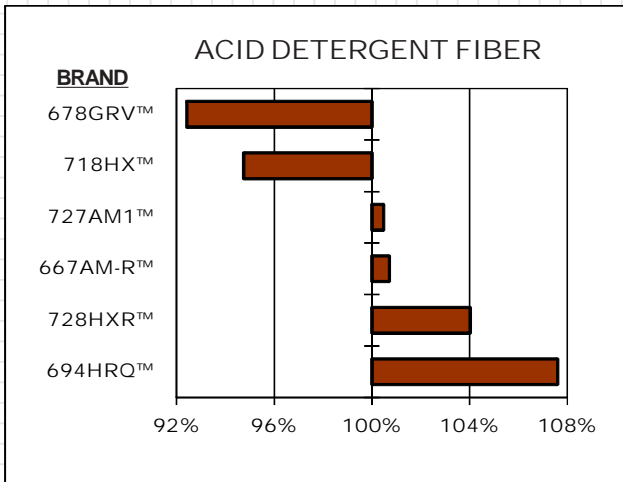
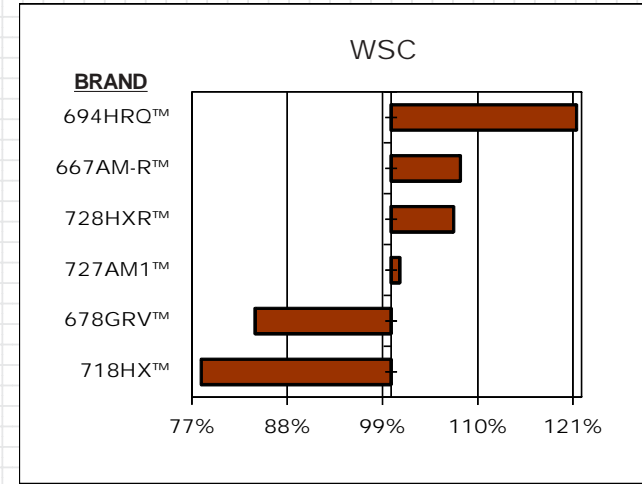
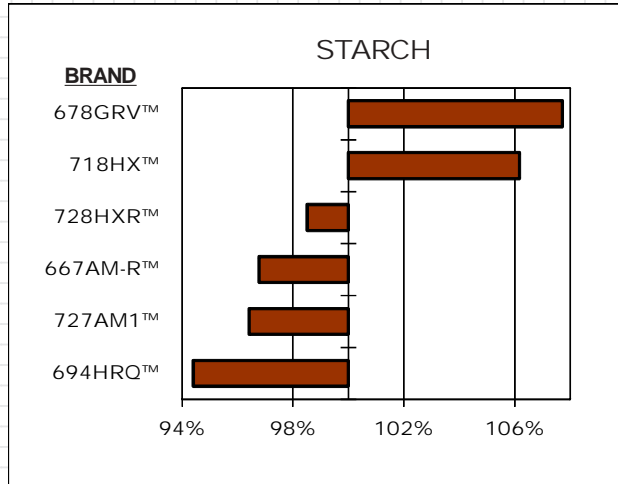
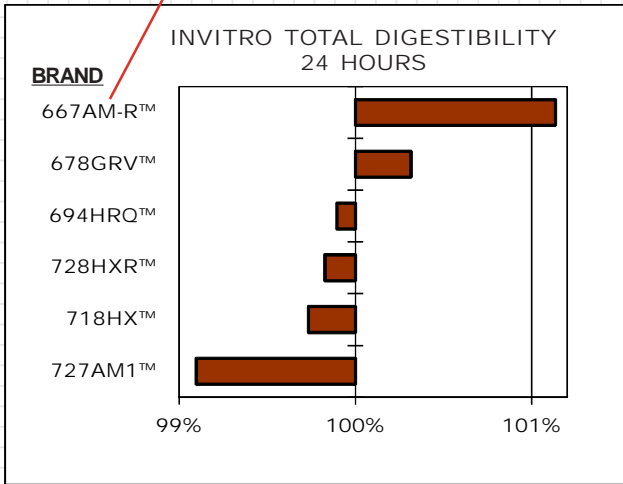
Refuge	RM	BRAND	TRAIT
	112	AcreMax RPM 667AM-R™	FX Liberty Link
	113	678GRV™	Agrisure Viptera Liberty Link
	114	RPM 694HRQ™	FX Liberty Link
	116	AcreMax RPM 727AM1™	FX Liberty Link
	116	718HX™	FX Liberty Link
	116	RPM 728HXR™	FX Liberty Link

Super forage quality!



Genetics First™

**New for 2012  
- a MUST TRY -  
with a lot of tons  
and forage quality.**



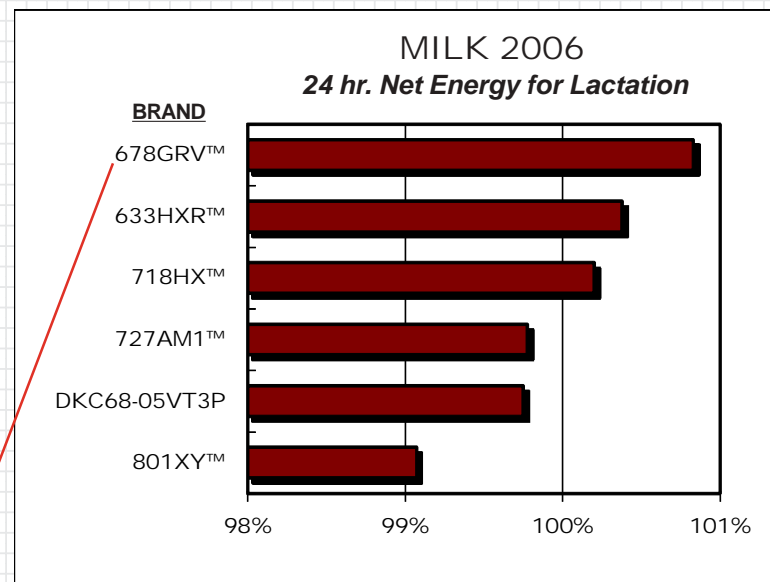
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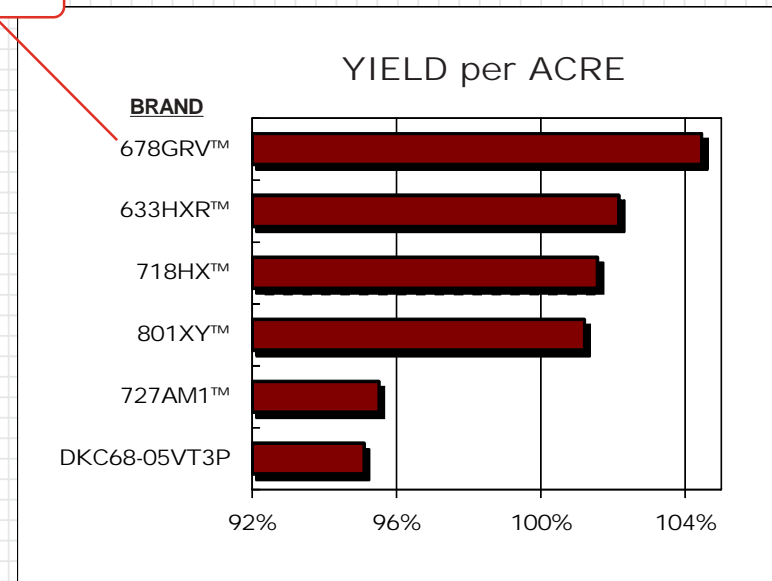
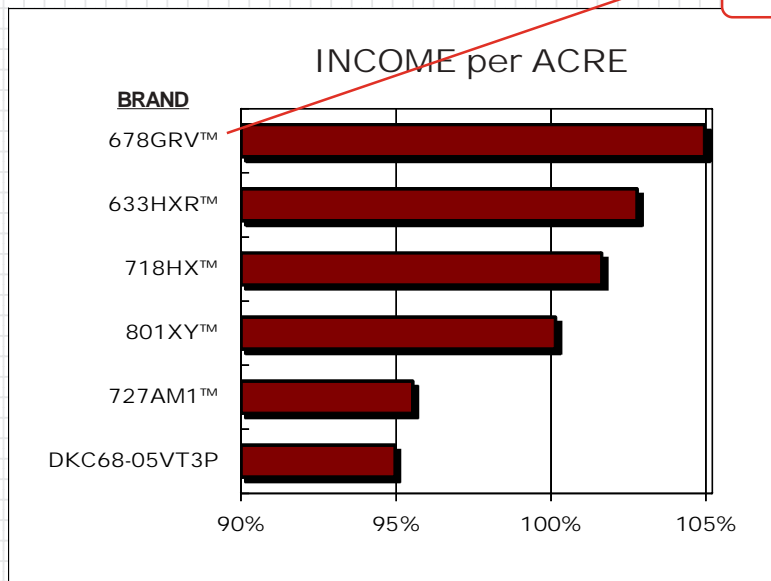
# LATE SEASON SILAGE

Two Year Data

Refuge	RM	BRAND	TRAIT
	110	<b>RPM</b> 633HXR™	LIBERTY LINK
	113	678GRV™	Agrisure Vipers LIBERTY LINK
	116	AcreMax1 <b>RPM</b> 727AM1™	LIBERTY LINK
	116	718HX™	LIBERTY LINK
	118	<b>DEKALB</b> DKC68-05VT3P	
	119	801XY™	



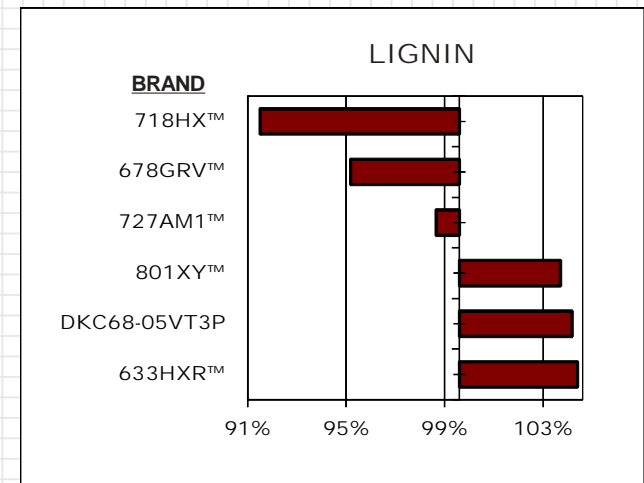
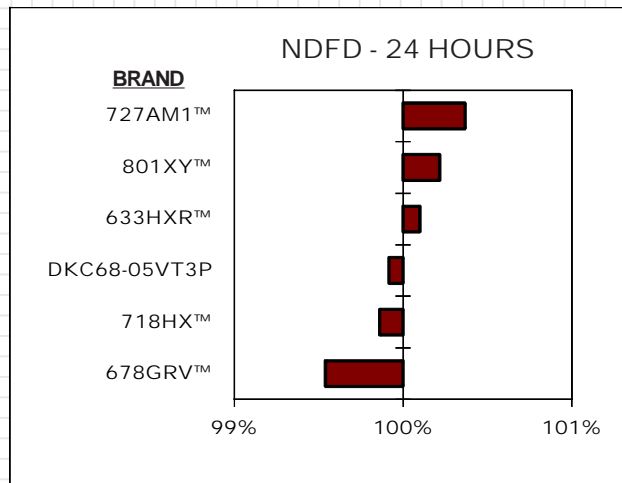
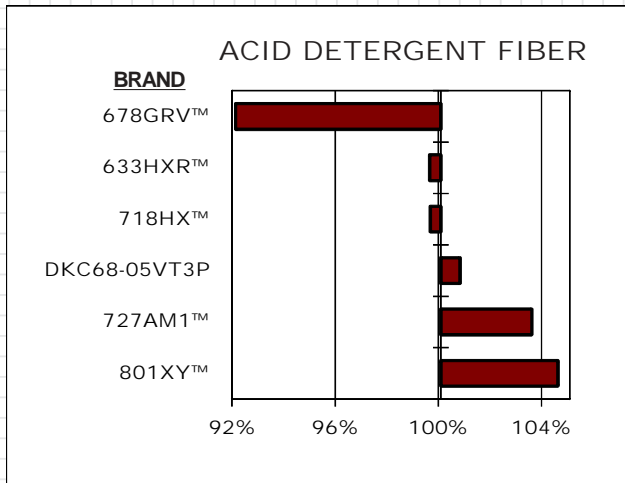
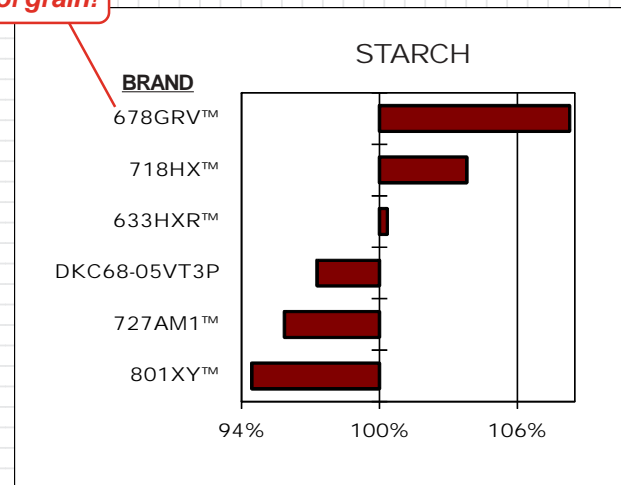
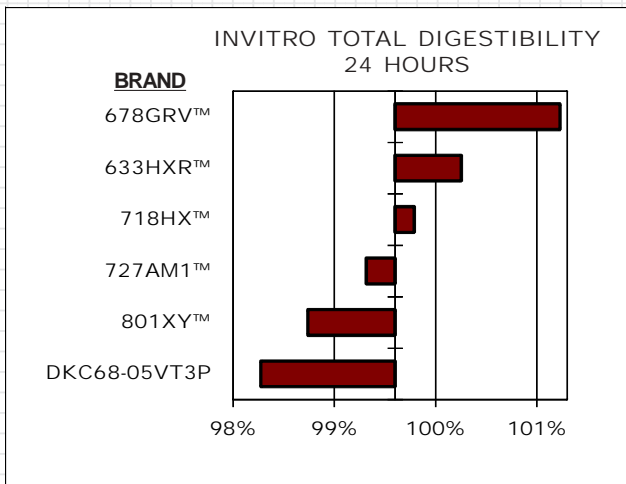
**At the top again!**



*Genetics First™*



**Lots  
of grain!**



**DOEBLER'S**  
*"Your Regional Advantage"®*



ALL COMPOSITIONAL TRAITS AND ASSOCIATED CALCULATED VALUES ARE BASED UPON NIR ANALYSIS OF “GREEN”, UN-ENSILED CORN PLANT SAMPLES. Values presented are relative to the observed average of all hybrids presented together on an individual chart. Efforts to improve communication of the value of Doebler's silage corn hybrids continue with the University of Wisconsin's Milk 2006 milk production model. Compositional values used in calculations are all on a 100% Dry Matter Basis. Characteristics presented are briefly described below:

**NEL** = Observed Average Net Energy for Lactation expressed as Mcal per Lb. of Dry Matter

Calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2006 and Doebler's NIR Derived Compositional Data (Kernel Processed Set at “Yes” and actual Dry Matter Yield)

**Yield Per Acre**= Estimated Tons Harvested Per Acre adjusted to 100% Dry Matter

Moisture Calculated by Using the Average Plant Moisture and Average Plant weights and converted to 100% Dry Matter and then multiplied by an Actual Plant Population per Acre.

**Income Per Acre**= Milk 2006 lbs milk per Acre

Calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2006 and Doebler's plot data (Kernel Processed Set at “Yes”). Milk 2006 Milk per Acre is intended to serve as a method for comparing listed Doebler's varieties on the basis of their overall productive potential. It tries to combine both yield and energy density considerations into a single number. This number should ONLY be used for comparative purposes between listed groups of Doebler's varieties. For a variety of practical considerations, Milk 2006 Milk per acre is not to be considered predictive of actual milk production responses in specific situations.

**%NDFD** is a measurement of how digestible the NDF actually is. (NDF is a measurement that includes most, but not necessarily all of the components of plant cell walls. The primary components of NDF include cellulose, hemicellulose and lignin. NDF is an estimate of total fiber.) DNDf is measured for a 24-hour period. The higher the percentage, the greater the increase of dry matter intake, thus converting more fiber to energy.

**% ADF** = Observed Average % Acid Detergent Fiber expressed on a 100% Dry Matter Basis

ADF includes all of the components of NDF, with the exception of hemicellulose.

**% Lignin** = Observed Average % Lignin expressed on a 100% Dry Matter Basis

Lignin includes a diverse class of phenolic compounds associated with the structural components of plant cells. Lignin has no energy value to the animal. In addition, lignin restricts digestibility of other components with which it is associated. From the standpoint of silage digestibility, low lignin content is desirable.

**% Starch** = Observed Average % Starch expressed on a 100% Dry Matter Basis

**% IVTD24** = Observed Average % *In-Vitro* 24-hour Total Digestibility on a 100% Dry Matter Basis; % IVTD24 estimates the digestibility of the sample.

**% WSC**= Water Soluble Carbohydrate Plant Sugar

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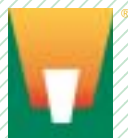
*This information presents a relative comparison among the varieties listed. It is intended to aid in your selection of the silage variety which, from within the group of varieties listed, tends to better meet your particular silage needs. These relative values are based upon observations from the described Doebler's silage plots. This is part of an on-going effort, on the part of Doebler's, to continually upgrade the silage varieties we have to offer as well as the information, which supports their better use.*

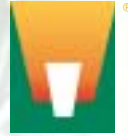
*\*\*Varieties should only be compared with those on the same chart. As you review these data, keep in mind that for each chart, the value of 100% on the x-axis is the average value of that characteristic for the six hybrids displayed. Products that exhibit values greater than 100% were above the six-hybrid average for that characteristic. Products that exhibit values less than 100% were below the six-hybrid average for that characteristic. The data in the charts is shown with the more desirable characteristic at the top.*

*DISCLAIMER: This information is based upon observations obtained from replicated plots in various locations and is presented for relative comparison purposes only. Varieties should be compared only within the same plot group. As you know, many factors affect plant performance and compositional characteristics in addition to genetic background. Therefore, actual hybrid performance will vary with different soils, management practices, weather patterns and other factors. Due to the many performance-affecting factors associated with the production and use of corn silage, which are beyond our control, Doebler's makes no warranties regarding this information or its use.*

*This is not intended to be an all-inclusive data set. Environment-by-Genotype interaction and all other experimental error must be taken into account when using this information. The reprinting and use of this information is prohibited without prior written permission from Doebler's Pennsylvania Hybrids, Inc. To make the best informed plant genetics decision, Doebler's encourages customers to use multiple sources of reference material. All hybrid seed corn brand names are trademarks of Doebler's PA Hybrids, Inc, unless otherwise noted.*

# NOTES





## BEST MANAGEMENT PRACTICES FOR SILAGE

1. **Soil testing program**
2. **Soil fertility management**
3. **Weed control management**
4. **Hybrid selection**
5. **Timeliness of planting**
6. **Stand establishment**
7. **Silage harvest**
  - a. **Timing**
  - b. **Cutting height**
  - c. **Length of cut**
  - d. **Conditioning**
  - e. **Inoculation**
  - f. **Bunk management**
8. **Sampling silage representatively**

NOTES

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“We have been using Doebler’s products for a number of years now. The silage tons and quality have met or exceeded our expectations with our dairy herd, year in and year out. We are also pleased with the service provided to us by our local Doebler’s dealer. “

**Jay and Faye Good**  
**GOODVIEW FARM**  
**Canton, Pennsylvania**

