

2014

Research Data

King's
AgriSeeds
Inc.





High Energy Forages and Soil Building Cover Crops

60 N. Ronks Rd.
Suite K
Ronks, PA 17572
(717) 687-6224

Dear Dealer,

In conjunction with Masters Choice and their breeding and testing efforts in the Midwest, King's AgriSeeds conducts research corn plots to evaluate current and new corn hybrids in our environments here in the Northeast. This is very important for King's, you and your customers. In the Eastern U.S., we typically have more varied soils, abundant disease pressure and diverse cropping rotations around corn than many areas of the Mid-West. These factors can greatly influence how hybrid performance should be evaluated.

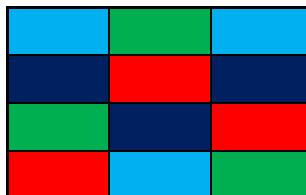
Types of Trials

We have various types of hybrid evaluations that we use to collect information on the Masters Choice Hybrids. You yourself may have planted one of these plots. There are three main types of plots:

1. **Hybrid Show Plot** – These plots are available for all dealers who want to plant, observe and evaluate Masters Choice hybrids in their local area. Even though King's may not harvest these plots for data collection, observations by you, King's staff and your customers are very important in learning how hybrids perform in your area.
2. **Advancement Strip Trials** – These specific locations are selected by King's AgriSeeds and Masters Choice to evaluate experimental hybrids and compare them to the current commercial hybrids. These plots are usually replicated, and are harvested for silage and grain data, along with ratings for disease and other agronomic evaluations that can be collected.
3. **Replicated Corn Trials** – King's AgriSeeds contracts with an independent research firm to conduct these trials. Randomized replicated trials are the same type of trials that are completed by universities conducting research trials on all types of crops (i.e. Penn State Grain Trials, PDMP Trials, Cornell Grain and Silage Trials, Delaware and Maryland State Trials, and others). These trials are not just strips of corn. They are plots of individual corn hybrids randomly spaced throughout a field. They do require specialized planting and harvesting equipment. Picture in your mind a checkerboard with each block of the checkerboard being a different hybrid, and each hybrid is somewhere on the board 3 times.

Below is an example of a replicated and randomized trial. Each color would be a plot of a different hybrid. Let's say each plot would be 4 rows – 50 feet long. And each hybrid would be planted 3 times in the field.

Rep 1 Rep 2 Rep 3



Replicated trials allow you to perform mathematical calculations (statistics) on the data collected. The main results calculated are two values known as CV and L.S.D.. CV “Coefficient of Variation” is a calculation that tells you the quality of the information. Basically how good are the results for the trial? CV can be calculated in a replicated trial on any trait like yield, moisture, test weight, disease rating and others. In the replicated trials I did a CV calculation for yield for each replicated location. A CV value of less than 15 for yield is recognized as being an acceptable quality value. The lower the value of CV, the better the quality of that plot. As you look at the replicated grain and silage trials you received you will see our plot CVs were good, usually below 10.

L.S.D. is another value that is calculated through statistics on a replicated plot. L.S.D. stands for “Least Significant Difference”. If an L.S.D. has a value of 10.5 for a grain yield, then the hybrids in a replicated plot must vary in yield by at least 10.5 bushels for them to be significantly different. So if the top 3 hybrids in a grain trial with an L.S.D. of 10.5 do not vary in grain yield by more than 10.5 bushels, then the yields of these hybrids can be considered statistically similar. If you were to repeat the trial again under the exact same growing conditions there is a very good chance (95%) that these three hybrids would be at the top again but perhaps in a different order. Is plot statistics a little complicated and confusing? Yes it can be. But this process is used by researchers and universities to evaluate data from all types of trials.

Data Collected

For the corn grain trials we focused mainly on population, moisture, yield and test weight. We do collect additional data when possible on other traits like stalks, diseases, plant height, plant appearance at harvest, and others. On our silage trials we collect similar information, but also look at forage quality. Forage quality is collected from samples taken from the individual hybrids at harvest, ensiled in vacuum sealed bags for a period of time, and then sent to a lab for analysis. The reason for ensiling samples instead of sending fresh samples is to have a silage hybrid sample analyzed that has fermented without oxygen and better resembles what the grower will have in a bunk, bag or silo when he begins to feed it. Attached is a sheet of some of the main silage quality traits that are reported on a forage sample analysis. (See Attachment)

Growers and nutritionists are interested in differences in forage quality. With the our **Feed First™ Challenge** and **“Avoid the Fall Slump”** campaign, we tend to key in on 7 Hr Starchd, %NDFd and Milk per Ton to demonstrate the superior digestibility and efficient fermentation of starch in Masters Choice hybrids. The other forage quality factors are also important, though.

Please also note:

- The replicated trials also include some nice data like plant height and ear height.
- Disease rating I took will be on the grain trial plots.
- I have highlighted in RED FONT on each plot the best result in each plot for quality parameters like Crude Protein, %ADF, %aNDFom, Lignin and all the other quality traits.
- Plots are sorted by yield - highest to lowest unless stated otherwise.

Interpreting the Results

So what do all of these plots of grain and silage mean to me as a dealer? These plots should be used as information to support your sales, recommendations and buying decisions of your customers. All of this plot data was collected at locations that may not fully represent field and growing conditions of the area where you sell Masters Choice corn. What you do NOT want to do is find the highest yielding hybrid in this set of plots

and sell that hybrid. You should use as much local information as you can to help in placing hybrids with your customers. That could be a plot on your own farm, listening to your customers for their comments on Masters Choice performance on their farms and asking your King's AgriSeeds Regional Coordinator. Use other sources also; PSU PDMP Trials, Cornell Trials and Virginia Silage Trials, etc.

Remember, forage quality can make huge differences in animal performance. However, we still must put agronomics first. There are many agronomic considerations that influence the performance of the hybrid in your location. Is it the right maturity? Silage or grain? What kind of soil? Will it be planted no-till? Is it in a continuous corn rotation? Early or late planting date?... and a host of other agronomic factors that should be considered first.

Remember, these plots show the results of these hybrids at a specific location and under a specific set of environmental conditions that will vary from year to year. Hybrids can respond differently each year as the growing conditions and soil types change.

As you look through the plot data you will see that many of the newer Masters Choice hybrids were excellent performers this year. Many were at or near the top for the different categories - Grain Yield, Silage Yield, Starch Digestibility and Milk per Ton. We also see excellent performance of our current hybrids in these categories too. Some of the newer Master's Choice Hybrids that stood out were:

MC 6750

MC6470

MC6150 and its other versions MCT6151 and MCT6153

MC 5660

MC5370 and its other versions MCT5371 and MCT5375

MC 5250

MC4210 and its other versions MCT4211

MC3220 and its other version MCT3211

MC5800 and MC5300 Organic

There is a lot of information to glean from this plot data. If you have questions please contact your King's Agriseeds RC, Support Staff or myself.

Thank You,

Tracy Neff

Research Agronomist/Product Screening

Nutrition Terms and Abbreviations

DM – Dry Matter is when all the moisture is removed.

CP – Crude Protein which is a simple test that multiplies the nitrogen content of the sample times 6.25. A dairy ration is currently usually balanced in the 15 to 17% range depending on the material fed.

ADF – Acid Detergent Fiber is a test where an acid detergent is mixed with the forage sample that removes all the material except for cellulose and lignin. The higher the number the more fiber.

NDF – Neutral Detergent Fiber is a test where a less harsh (neutral) detergent is mixed with the forage sample and removes all material except for hemi-cellulose, cellulose and lignin. These three materials make up most of the cell wall of the plant. The higher the number the more fiber. Note: Hemi-cellulose is very digestible and desirable. The difference between ADF and NDF is hemi-cellulose. A large spread is desirable.

NDFd (24) – The amount of NDF that is digested in 24 hour in a sample that has rumen fluid added to it. The higher the number the more digestible the fiber.

Kd Rate – The number measures the rate of digestion per hour and is used in high end computer models.

Starch – Starch is a complex sugar that stores energy in the plant. The highest concentration is in grain. New tests are being developed to test starch digestibility but are not commonly used at this date. Total starch in a diet should typically be kept under 23%. Acidosis can be a problem with too high of a starch load.

Sugar – A simple carbon form of energy storage. Many types of sugars exist and their role in nutrition is being fine tuned.

NSC – Non-Structural Carbohydrate – This is mostly starch and sugar but also includes a few other materials. Excludes the fiber or “fiber energy” of the NDF.

% Forage – We like to see at least 60% of the forage dry matter coming from forages. Also, remember corn silage is close to 50% grain so a 60% forage diet with lots of it coming from corn silage may still cause animal health problems.

State Hybrid Trials

Penn State

2014

Penn State/PDMP Corn Silage

Hybrid Performance Trial

Results

Prepared by Greg W. Roth, James A. Breining, John A. Shaffer and W. Scott Harkcom (Department of Plant Science).

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

Visit Penn State's College of Agricultural Sciences on the Web: www.cas.psu.edu

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Penn State/PDMP Corn Silage Hybrid Testing Program 2014

Full Season (111-120 day RM) silage hybrids in SC PA

Combined data over Chester, Lancaster and Landisville, locations

Notes: Good yields. Little moisture stress.

PENNSTATE



Cooperative Extension
College of Agricultural Sciences

PDMP
PROFESSIONAL DAIRY MANAGERS OF PENNSYLVANIA

Brand	Hybrid	Traits	Dry Matter	Silage Yield*	CP	NDF	Starch	Lignin	NEL	24hr NDfD	24hr Milk/Ton	24hr Milk/Acre	Population	Maturity Rating	Days
Dekalb	DKC63-33RIB	CRW, ECB, GT, LL, FAW, CEW	39.8	26.2	7.3	38.3	40.8	3.0	0.78	52.6	3260	29877	34111	113	
Augusta	Augusta 5562	GT, CB, CRW	38.7	26.4	7.6	37.9	40.8	3.1	0.78	50.7	3296	30433	33167	112	
Dekalb	DKC61-88RIB	ECB, CRW, GT	38.5	29.0	7.3	36.9	40.9	2.9	0.78	50.5	3273	33165	35000	111	
Syngenta	NK N70J-3011A	ECB,CRW,GT,LL	38.2	26.8	6.8	39.3	38.5	3.1	0.77	49.1	3256	30373	34556	110	
Doebler's	RPM® 658AMX™	GT,LL,ECB,CRW	38.2	27.8	7.6	35.5	41.7	2.8	0.79	50.9	3330	32435	34056	112	
Dekalb	DKC62-08RIB	CRW, ECB, GT, LL, FAW, CEW	38.2	26.8	7.2	37.7	40.3	2.9	0.78	50.9	3276	30730	34778	112	
Syngenta	NK N74R-3000GT	ECB,CRW,GT,LL	38.0	24.8	6.8	37.7	40.2	3.0	0.78	50.0	3261	28487	34500	113	
Hubner	H5867RC3P	CRW, ECB, GT, FAW, CEW	38.0	29.7	7.5	35.3	42.0	2.9	0.79	51.7	3388	35136	34556	115	
Hubner	H6744RCSS	CRW, ECB, GT, LL, FAW, CEW	37.6	25.2	7.4	40.2	37.5	3.2	0.77	52.0	3327	29545	34333	113	
Hubner	H5811RC3P	CRW, ECB, GT, FAW, CEW	37.5	28.2	6.9	36.6	40.9	2.8	0.79	51.7	3340	33061	34833	115	
Dekalb	DKG65-19RIB	ECB, CRW, GT	37.2	26.2	7.5	33.4	45.0	2.8	0.80	49.5	3390	31011	31000	115	
AgriGold Hybrids	A64995VTXRB	CRW, ECB, GT, LL, FAW, CEW	36.7	28.8	7.5	36.1	41.8	2.9	0.79	50.4	3393	34277	34944	112	
FS InVISION	FS6243VT3P	ECB, CRW, GT	36.6	28.0	7.2	38.1	40.2	3.0	0.78	48.7	3303	32332	34056	112	
Kings AgriSeeds	Masters Choice MC 6150		36.5	27.4	6.8	41.0	37.7	3.2	0.76	49.9	3283	31321	35167	111	
Augusta	Augusta 6664	GT, ECB, CRW	36.5	28.1	7.4	37.0	41.9	3.0	0.78	49.2	3359	33015	34444	114	
FS InVISION	FS6545VT3P	ECB, CRW, GT	36.5	29.1	7.4	38.6	39.7	3.1	0.78	50.8	3356	34139	34389	115	
Channel	Channel 215-83STXRB	ECB, CRW, CEW, GT, LL	36.4	28.3	7.0	37.8	38.5	2.9	0.78	50.8	3396	33462	34833	115	
Hubner	H4663RC2P	ECB, GT, FAW, CEW	36.1	27.9	6.9	36.1	42.8	2.8	0.79	51.0	3458	33864	35111	113	
Syngenta	NK N79Z-3111	ECB,CRW,GT,LL	35.8	28.4	7.5	40.5	35.2	3.2	0.76	50.1	3291	32733	32833	115	
Chemgro	Chemgro 7348G3	ECB, CRW, GT, LL	35.4	26.5	6.7	36.0	42.3	2.7	0.79	50.5	3438	31974	33778	113	
FS InVISION	FS InVISION FS 63R3SS	ECB, CRW, BL, GT, LL	35.4	25.7	7.8	37.7	38.9	3.0	0.78	51.0	3448	31180	33611	113	
Augusta	Augusta 5565	GT, ECB	35.4	26.4	7.5	39.3	36.9	3.3	0.77	48.1	3295	30520	31722	115	
Dekalb	DKG64-87RIB	CRW, ECB, GT, LL, FAW, CEW	35.1	24.5	7.3	34.4	43.8	2.7	0.80	52.2	3580	30703	34111	114	
AgriGold Hybrids	A6517VT3PRIB	ECB, CRW, GT	34.9	27.7	7.1	38.2	40.6	3.1	0.78	48.6	3383	32823	35167	113	
Kings AgriSeeds	Masters Choice MCT 6583	ECB, CRW, GT, LL	34.9	28.5	6.8	39.6	38.5	3.1	0.77	51.6	3421	34256	35333	115	
Mid Atlantic	MA8111VT3Pro	ECB, CRW, GT	34.7	26.9	6.9	37.9	38.7	3.0	0.78	49.0	3399	32150	34333	111	
Mycogen	TMF2H747	ECB, CRW, BL, GT, LL	34.6	28.5	7.1	39.9	38.0	3.2	0.77	51.5	3450	34450	35333	113	
Augusta	Augusta 7664	GT, CRW, ECB	34.1	27.0	7.4	38.8	37.5	3.1	0.77	51.1	3457	32641	34556	114	
AgriGold Hybrids	A6573VT3PRIB	ECB, CRW, GT	33.6	26.6	7.5	41.4	35.6	3.3	0.76	50.6	3414	31793	34444	114	
Mid Atlantic	MA5150GT	GT	33.5	27.3	7.1	43.4	33.5	3.4	0.75	49.2	3242	30911	32444	115	
AgriGold Hybrids	A6553STX	CRW, ECB, GT, LL, FAW, CEW	33.1	27.2	7.7	40.0	36.6	3.2	0.77	50.4	3471	32972	33667	114	
Doebler's	RPM® 5315AMXT™	GT,LL,ECB,CRW	32.7	26.5	7.6	37.5	38.7	3.0	0.78	50.5	3563	32979	33833	113	
TA Seeds	TA765-30	ECB,CRW,GT,LL	31.7	25.2	7.5	42.6	31.6	3.6	0.75	48.0	3261	28943	34556	115	
	111 to 115 day Mean		36.1	27.2	7.3	38.2	39.3	3.0	0.78	50.4	3365	32051	34168		
Kings AgriSeeds	Masters Choice MCT 6894	BCW, CEW, ECB, FAW, CRW, GT, LL	38.5	24.5	7.3	38.0	40.3	2.9	0.77	50.5	3169	27286	32556	118	
Mid Atlantic	MA8162VT2Pro	ECB, GT	37.8	29.9	7.1	38.2	38.7	2.9	0.78	52.8	3357	35419	35333	116	
TA Seeds	TA780-13VPRIB	ECB,CRW,GL	37.1	29.8	7.0	36.8	41.2	2.9	0.79	53.5	3507	36621	34333	116	
Augusta	Augusta 6866	ECB, GT, BL, CRW, LL	36.9	26.3	7.7	37.9	38.8	2.9	0.78	52.8	3349	30750	34000	116	
Chemgro	Chemgro 7658G3	ECB, CRW, GT, LL	36.9	28.8	7.2	39.3	37.8	2.8	0.78	54.5	3438	34674	35444	116	
TA Seeds	TA774-13VPRIB	ECB,CRW,GL	36.8	26.3	7.3	38.8	38.7	3.1	0.78	51.0	3380	31069	34444	116	
Augusta	Augusta 5566	GT, CB, LL	36.4	28.0	7.5	37.6	37.8	2.9	0.78	53.3	3410	33353	34222	116	
Doebler's	Doeblers® 5615GRQ	GT,LL,ECB,CRW	36.3	26.9	7.0	35.9	40.9	2.8	0.79	51.2	3413	32128	34889	116	
Doebler's	Doeblers® 5815GRQ	GT,LL,ECB,CRW	35.9	27.8	7.0	36.9	39.4	2.8	0.78	53.5	3467	33812	33778	118	
TA Seeds	TA784-13VPRIB	ECB, CRW, GT	35.7	28.8	7.2	39.5	35.7	2.9	0.77	53.7	3381	34080	32111	118	
FS InVISION	FS InVISION FS 70R37VT3P	ECB, CRW, BL, GT, LL	35.6	27.0	7.4	38.4	39.1	3.0	0.78	52.4	3429	32614	34833	120	
Mid Atlantic	MA8181RR	GT	35.1	28.8	7.3	39.7	36.4	3.2	0.77	48.7	3356	33917	35111	118	
AgriGold Hybrids	A6687VT2PRO	ECB, GT	35.0	26.2	7.3	41.0	35.5	3.3	0.76	51.2	3380	30980	34722	117	
Kings AgriSeeds	Masters Choice MC 6750		34.8	26.5	7.3	39.9	37.3	3.1	0.77	51.6	3436	31878	33056	117	
Augusta	Augusta 8868	GT, ECB, CRW	34.6	29.6	7.2	38.4	37.2	2.9	0.78	51.5	3484	36029	34444	118	
CPS/DynaGro	D58QC72	ECB, CRW, GT, LL	34.6	30.3	7.9	37.7	37.8	3.1	0.78	50.0	3432	36295	34722	118	
Chemgro	Chemgro 7646R3P	ECB, CRW, GT	34.4	25.9	7.3	41.0	36.0	3.3	0.76	50.9	3345	30389	34500	116	
CPS/DynaGro	D57VP75	ECB, CRW, GT, LL	34.1	27.8	7.2	40.7	35.0	3.2	0.76	51.5	3433	33504	34944	117	
Doebler's	RPM® 743HXRTM	GT,LL,ECB	34.1	27.3	7.3	38.8	37.5	3.1	0.77	51.3	3480	33247	32222	117	
	116 to 120 day Mean		35.7	27.7	7.3	38.7	37.9	3.0	0.78	51.9	3406	33065	34094		
	MEAN		36.2	27.4	7.3	38.1	39.1	3.0	0.78	50.9	3374	32347	34182		
	CV		10.3	11.2	7.0	10.8	12.9	12.7	2.9	8.8	5.2	11.8	3.7		
	LSD(0.1)		2.7	2.4	0.4	3.2	3.8	0.3	0.0	2.7	142	2980	1001		

* Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis. CP=crude protein, NDF= neutral detergent fiber,

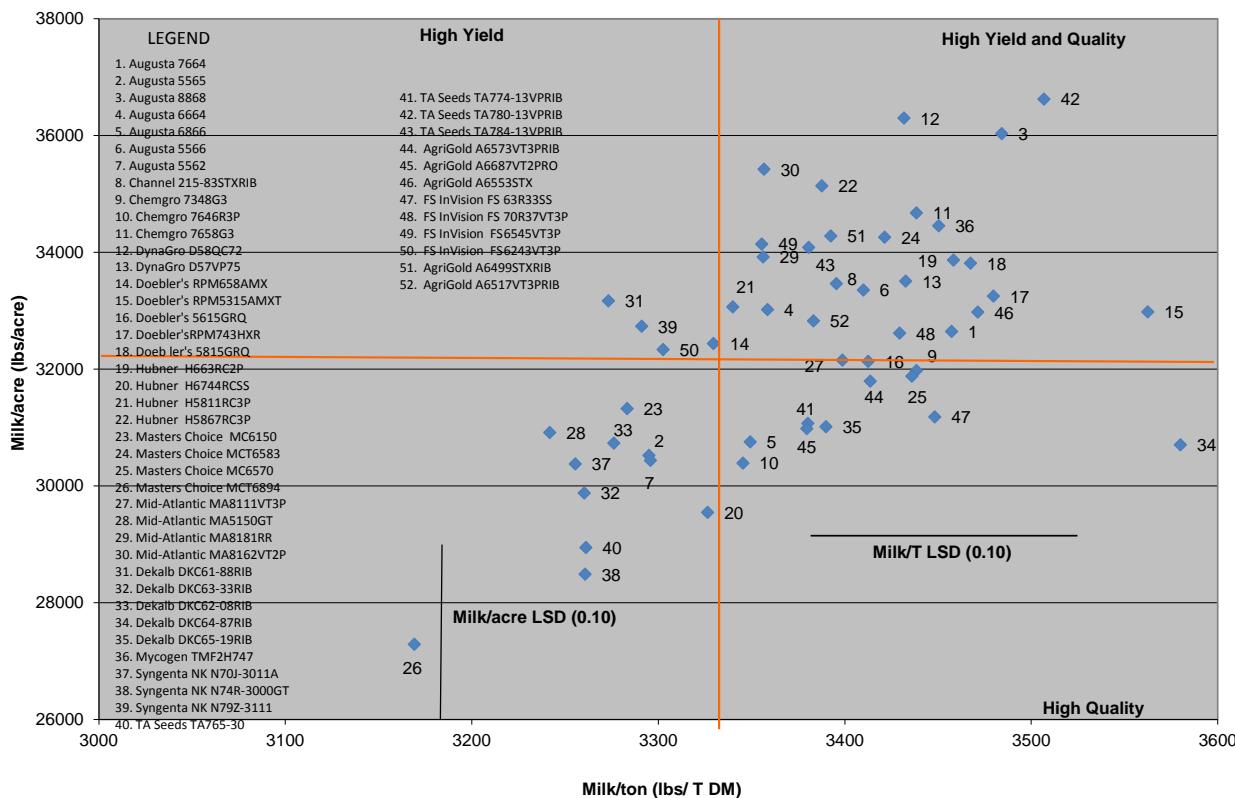
NEL=nel energy for lactation, and NDfD=neutral detergent fiber digestibility. Milk/ton calculated using Milk 2006.

Traits: ECB= European Corn Borer, CRW= Corn Rootworm, BL=Broad Lepidoptera Tolerant, WBC= Western Bean Cutworm, FAW= Fall Armyworm, BCW= Black Cutworm, GT=Tolerance to Glyphosate,

LL=Glucofuranose Tolerant, ND= Nutridense

Note: Pioneer entries were only included in the Landisville location in this zone due to late arrival and are not included in the combined analysis.

Prepared by Greg W. Roth, James A. Breining, John A. Shaffer and W. Scott Harkcom (Department of Plant Science).



2014 Penn State/PDMP Corn Silage Hybrid Performance Trial Results

Prepared by Greg W. Roth, James A. Breining, John A. Shaffer and W. Scott Harkcom (Department of Plant Science).

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

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Medium Season (101-110 day RM) silage hybrids in Central PA
Centre Co. location 2014

Notes: Planted late but good yields. Little moisture stress. Light disease pressure.

Cooperator: Penn State Agronomy Research Farm

Brand	Hybrid	Traits	Dry Matter %	Silage Yield* Ton/Acre	CP %	NDF %	Starch %	Lignin %	NEl Mcal/lb	NDFD %	Milk/Ton lbs/ton	Milk/Acre lbs/acre	Population plants/ac	Maturity Rating Days
Hubner	H5222RC3P	CRW, ECB, GT, LL, FAW, CEW	38.9	23.2	7.0	34.0	43.5	2.5	0.81	56.5	3567	30165	33777	101
Hubner	H6191RCSS	CRW, ECB, GT, LL, FAW, CEW	37.5	19.6	7.5	36.7	41.5	2.8	0.79	54.1	3482	24683	32761	99
Channel	Channel 234-445TXPRIB	ECB, CRW, CEW, RR, LL	36.9	21.9	7.1	38.0	38.3	2.8	0.79	53.8	3483	25897	31856	103
TA Seeds	TA536-22DPRIB	CRW, RR	36.6	21.8	6.8	40.9	34.8	3.2	0.76	51.8	3298	26207	31638	103
Kings AgriSeeds	Masters Choice MC 5250		35.2	22.0	6.4	37.6	37.2	2.8	0.78	54.5	3600	26425	33185	102
Doebler's	RPM® 537AMX™	GT, LL, ECB, CRW	33.9	22.6	7.8	40.4	34.8	3.1	0.77	56.6	3602	28038	32464	103
Kings AgriSeeds	Masters Choice MCT 5375	BCW, ECB, FAW, WBC	32.3	19.1	7.2	44.4	33.4	3.5	0.75	48.3	3145	22123	34383	103
Healthy Herd Genetics	42HFC15		31.7	19.5	7.2	46.5	29.2	3.4	0.75	53.9	3448	22814	31093	104
100 to 104 day Mean														
Dekalb	DKC56-03RIB	CRW, ECB, GT, LL, FAW, CEW	37.3	22.1	6.7	40.9	37.0	3.0	0.77	53.8	3356	26267	33300	106
FS inVISION	FS inVISION FS 57R30SS	ECB, CRW, GT, LL	37.2	23.6	7.3	34.4	43.3	2.5	0.80	54.3	3523	28543	32258	107
Dekalb	DKC60-67RIB	CRW, ECB, GT, LL, FAW, CEW	37.1	24.7	8.2	38.9	38.9	2.9	0.79	54.1	3530	29818	31315	110
Dekalb	DKC57-92RIB	CRW, ECB, GT, LL, FAW, CEW	36.9	23.8	7.0	37.0	40.6	2.8	0.79	53.8	3490	29857	32862	107
Channel	Channel 210-95STXPRIB	ECB, CRW, CEW, RR, LL	36.8	22.5	6.8	36.9	40.2	2.7	0.79	54.9	3498	28307	34295	110
TA Seeds	TA566-31	ECB, CRW, RR, LL	36.7	21.3	7.1	35.7	39.7	2.7	0.80	55.6	3529	26805	32876	106
Pioneer	P0636AMX	GT, ECB, CRW	36.4	22.8	7.0	37.5	39.7	2.6	0.79	55.5	3541	27354	30537	108
FS inVISION	FS inVISION FS 55R25VT3P	ECB, CRW, BL, GT	35.9	21.9	6.9	37.6	41.0	2.9	0.78	53.0	3447	26729	32972	105
Hubner	H6330RCSS	CRW, ECB, GT, LL, FAW, CEW	35.8	23.0	7.2	37.2	37.9	2.8	0.79	54.5	3573	29057	33875	108
Doebler's	Doeblers® 554GRQ	GT, LL, ECB, CRW	35.7	19.7	7.1	38.7	38.2	3.0	0.78	53.1	3477	23587	31804	105
Dekalb	DKC57-75RIB	CRW, ECB, GT, LL, FAW, CEW	35.6	21.7	7.0	36.1	41.0	2.6	0.80	55.4	3648	27124	34273	107
Dekalb	DKC61-88RIB	CRW, ECB, GT	35.4	24.3	6.8	39.7	38.3	3.0	0.78	52.7	3476	28521	32911	111
Doebler's	RPM® 647AM1	GT, LL, ECB, CRW	35.4	22.9	7.0	37.9	37.9	2.9	0.78	53.8	3545	27908	32172	110
FS inVISION	FS inVISION FS 5847VT3P	ECB, CRW, BL, GT	35.1	20.7	7.2	37.5	39.7	2.9	0.78	52.5	3491	25167	33628	108
TA Seeds	TA533-28RIB	ECB, CRW, RR, LL	35.0	21.1	7.3	36.7	39.7	2.7	0.79	55.0	3639	27184	33840	108
Pioneer	P0993HR	GT, ECB	35.0	24.2	6.9	36.9	39.8	2.7	0.79	54.1	3586	30235	30517	109
Kings AgriSeeds	Masters Choice MC 5660	CRW, ECB, GT, FAW, CEW	34.8	23.3	6.8	38.7	38.4	2.9	0.78	52.2	3418	27996	31835	106
Hubner	H5333RC3P	ECB, CRW, BL, GT, LL	34.5	21.4	6.9	37.1	39.4	2.6	0.79	56.3	3651	27107	33577	107
Mycogen	TMF2H706		34.1	23.7	7.1	39.1	36.2	2.9	0.77	54.4	3585	29996	34163	109
TA Seeds	TA625-31	ECB, CRW, GT, LL	34.0	24.1	7.3	34.4	38.6	2.7	0.80	55.1	3633	29740	33843	110
Doebler's	RPM® 6044HRQ™	GT, LL, ECB, CRW	33.9	20.9	6.5	45.7	30.7	3.5	0.74	50.2	3212	24681	33225	108
Syngenta	NK N63R-3000GT	ECB, CRW, GT, LL	33.8	22.7	6.9	39.6	33.4	2.9	0.77	55.0	3437	26675	32999	109
Kings AgriSeeds	Masters Choice MCT 6153	ECB, CRW, GT, LL	33.7	20.5	7.3	39.3	38.5	3.1	0.77	50.7	3502	25122	30942	111
Syngenta	NK N59B-3111A	ECB, CRW, GT, LL	33.0	23.8	6.6	40.1	35.4	2.9	0.78	56.0	3584	29740	33355	107
TA Seeds	TA108-18	GT	32.9	21.5	7.3	37.4	37.2	2.9	0.79	53.0	3661	27687	31997	108
Chemgro	Chemgro 7037RVNP	ECB, CRW, GT	32.9	23.3	7.0	44.7	32.8	3.5	0.75	49.6	3425	26734	33133	110
Mycogen	TMF2B720	ECB, CRW, GT, LL	32.4	24.3	7.4	41.8	34.1	3.2	0.77	54.6	3593	30608	32134	110
Channel	Channel 207-13VT3PRIB	ECB, CRW, RR	32.0	20.6	6.5	45.9	29.1	3.8	0.73	47.0	2989	21621	33491	107
Syngenta	NK N53W-3122	ECB, CRW, GT, LL	31.9	20.0	6.4	49.2	28.2	4.1	0.72	46.1	3001	21077	33175	105
Pioneer	P1498AM	GT, ECB	31.7	22.0	7.7	46.0	30.3	3.6	0.74	51.6	3370	26903	33907	110
Chemgro	Chemgro 66338G3	ECB, CRW, GT, LL	30.5	19.9	6.4	51.3	26.1	4.3	0.71	45.2	2949	21267	33364	106
105 to 111 day Mean														
MEAN														
CV														
LSD(0.1)														

* Silage yields are expressed on a dry matter basis. CP=crude protein, NDF= neutral detergent fiber, NEl=nutrient energy for lactation, and NDfD=nutritional digestibility. Milk/ton calculated using Milk 2006.

Traits: ECB= European Corn Borer, CRW= Corn Rootworm, BL=Broad Lepidoptera Tolerant, WB= Western Bean Cutworm, FAW= Fall Armyworm, BCW= Black Cutworm, GT=Glyphosate, Li=Glucofusinase Tolerant, ND= Nutridense

Prepared by Greg W. Roth, James A. Breining, John A. Shaffer and W. Scott Harkcom (Department of Plant Science).

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

Site:	Centre
Cooperator	Rock Springs Agronomy Research Farm
Planting Date	May 26, 2014
Soil Type	Nolin silt loam (No) Hagerstown silt loam (HaB)
Herbicides pre-	Roundup @ 1.75 pts./acre applied on May 6
post-	Roundup @ 1.75 pints /acre plus Lexar @ 3 qts./acre applied on May 30
	soybeans
Previous Crop	8 gal/acre 5-8-3/ Micros (5 gal in furrow)
Starter Fertilizer	none
Insecticide	none
Manure	none
Fertilizer	350 lbs. of urea w/Agrotain applied on June 2
Harvest Date	September 29, 2014

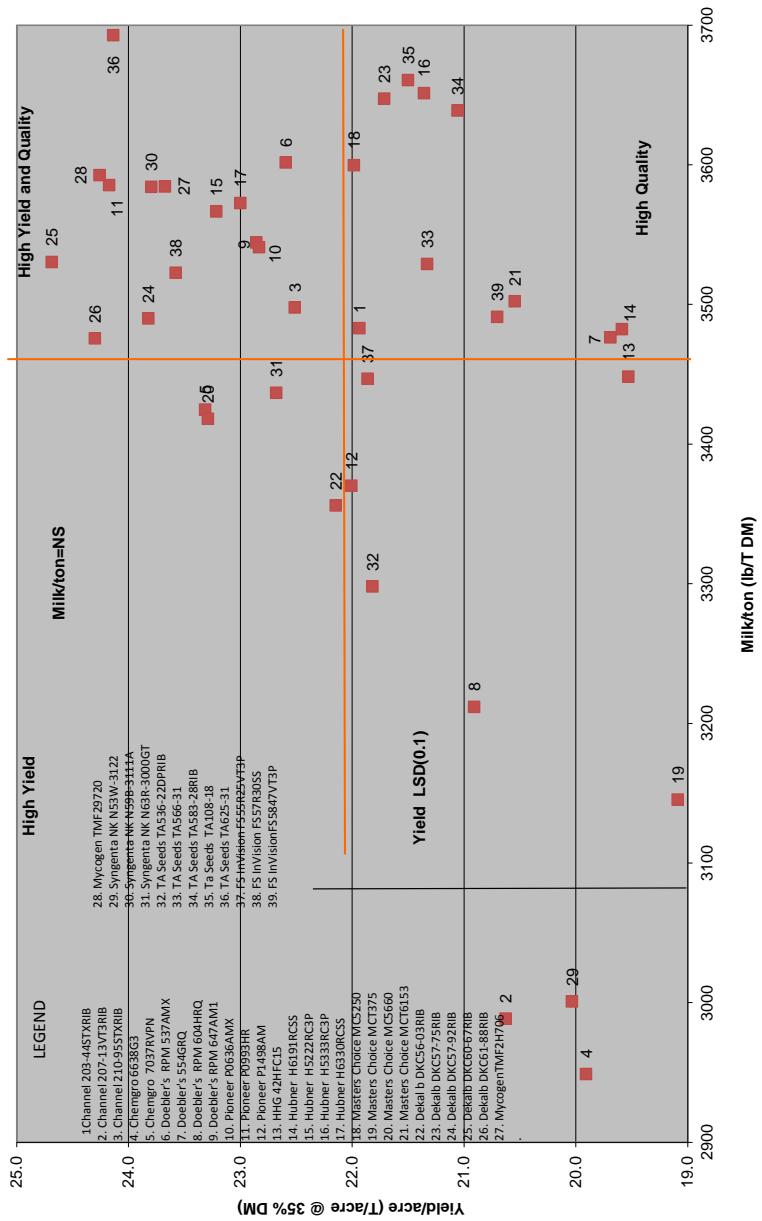
Weather Summary

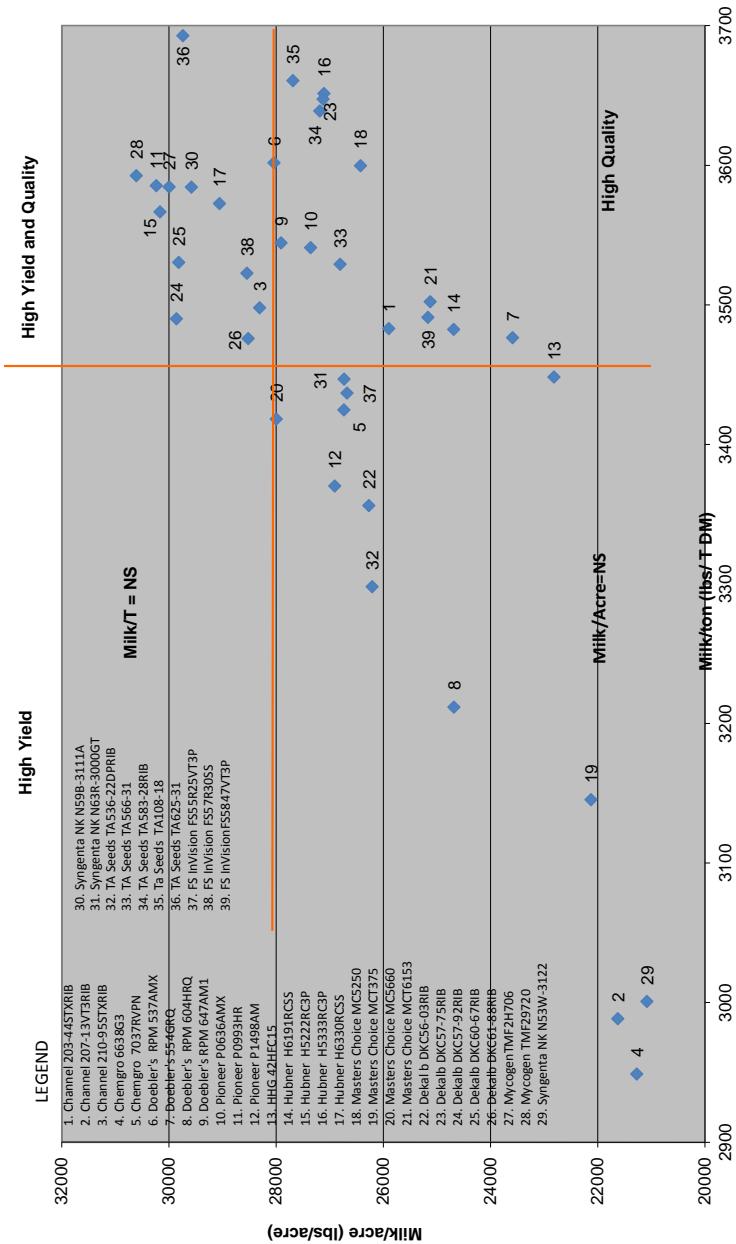
May 26 - September 29

Month	Precip.	GDD
May	0.49	95
June	5.10	546
July	6.44	607
August	6.54	523
September	0.89	375
Seasonal	19.46	2146

Precip. Data: <http://www.accuweather.com/en/us/west-grove-pa/19390/august-weather/2128839?monyr=8/1/2012>

GDD data: <http://www.weather.com/outdoors/agriculture/growing-degree-days/USPA1758>





2014 Penn State/PDMP Corn Silage Hybrid Performance Trial Results

Prepared by Greg W. Roth, James A. Breining, John A. Shaffer and W. Scott Harkcom (Department of Plant Science).

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

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High Energy Forages and Soil Building Cover Crops

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Suite K
Ronks, PA 17572
(717) 687-6224

Penn State/PDMP Corn Silage Hybrid Testing Program 2014
Early season (85 to 103 day) hybrids
Combined data over Bradford and Centre County locations

Notes: Good yields. Little moisture stress. Light disease pressure.



Cooperative Extension
College of Agricultural Sciences

PROFESSIONAL DAIRY MANAGERS OF PENNSYLVANIA

Brand	Hybrid	Traits	Dry Matter %	Silage Yield* Ton/Acre	CP %	NDF %	Starch %	Lignin %	NEI Mcal/lb	24hr NDFD %	24hr Milk/Ton lbs/ton	24hr Milk/Ton lbs/acre	Population plants/acre	Maturity Rating Days
Hubner	H4046RC2P	ECB, GT, FAW, CEW	45.8	23.0	7.0	37.2	41.2	2.7	0.78	52.9	3035	24438	32778	88
Kings AgriSeeds	Masters Choice MC-4210	GT,L,ECB,CRW,BL	42.7	22.7	7.2	38.6	38.6	3.0	0.78	51.9	31.07	24698	33584	92
Doebler's	Doeblers® 328GRV	CRW, ECB, GT, LL, FAW, CEW	42.6	26.2	7.2	37.1	40.6	2.8	0.78	50.3	3046	27773	30826	89
Hubner	H6039RCSS	ECB, GT	42.5	22.3	7.3	38.0	40.0	2.9	0.78	52.0	3074	23891	33500	89
Chemgro	Chemgro 5245RDP	BCW,CEW,ECB,FAW,WBC,SB,CRW,G	41.9	25.7	6.8	37.9	39.6	2.7	0.78	52.9	3184	28497	32611	92
Kings AgriSeeds	Masters Choice MCT 4054	CRW, ECB, GT, FAW, CEW	41.6	22.3	7.8	35.1	42.2	2.6	0.79	52.5	3186	24743	30424	90
Hubner	H5157RC3P	ECB,CRW,GT,LL	40.3	26.5	7.0	35.0	42.1	2.6	0.80	53.2	3292	30499	32568	94
TA Seeds	TA333-28RB	85 to 94 day Means	39.4	25.8	6.8	36.8	40.0	2.7	0.79	53.2	3316	29937	33389	91
			42.1	24.3	7.2	37.0	40.5	2.7	0.79	52.4	3155	26810	32460	
Dekalb	DKC45-65RIB	CRW, ECB, GT, LL, FAW, CEW	40.0	26.6	7.5	37.8	38.6	2.8	0.78	54.6	3296	30451	33444	95
Dekalb	DKC46-20RIB	ECB,CRW,GT	40.0	26.7	7.1	40.3	36.2	2.9	0.77	53.7	3231	30219	31715	96
Doebler's	Doeblers® 455GRV	GT,L,ECB,CRW,BL	39.6	27.3	7.1	36.4	39.1	2.7	0.79	54.4	3334	31839	32833	95
Pioneer	P9789AMXT	GT, ECB, CRW	39.0	26.8	7.7	37.5	38.9	2.7	0.79	54.8	3349	31447	30834	95
Doebler's	Doeblier's 486AMX	GT,L,ECB,CRW	38.8	22.7	7.1	37.7	39.5	2.8	0.78	52.9	3277	26029	33729	98
Pioneer	P0094AMX	GT, ECB, CRW	38.7	25.0	7.1	39.0	36.6	2.9	0.78	54.1	3322	28894	32444	100
Dekalb	DKC47-35RIB	CRW, ECB, GT, LL, FAW, CEW	38.7	25.1	7.1	38.4	38.2	2.9	0.78	52.3	3272	28890	33556	97
Hubner	H5222RC3P	CRW, ECB, GT, FAW, CEW	38.5	29.9	6.6	35.9	41.1	2.4	0.80	56.0	3463	36179	33278	101
Kings AgriSeeds	Masters Choice MCT 4884	BCW,CEW,ECB,FAW,WBC,SB,CRW,G	38.4	25.5	7.2	37.2	38.4	2.8	0.78	53.3	3369	29987	31333	98
Healthy Herd Genetics	42HF15	ECB,CRW,GT,LL	38.2	27.0	7.7	39.3	35.7	2.9	0.78	54.8	3317	31471	31311	102
TA Seeds	TA477-31	ECB,CRW,GT,LL	37.9	25.9	7.2	40.2	36.1	3.1	0.77	52.4	3352	30439	33111	97
Channel	Channel 197-68STXRIB	ECB,CRW,CEW,GT,LL	37.7	28.1	6.7	38.7	38.7	2.7	0.78	55.1	3428	33733	32667	97
Chemgro	Chemgro 6258G3A	ECB,CRW,GT,LL	37.5	26.3	7.6	37.3	37.0	2.9	0.78	53.5	3381	31190	32556	102
Hubner	H6191RCSS	CRW, ECB, GT, LL, FAW, CEW	37.5	26.1	7.3	37.2	39.0	2.7	0.79	52.8	3440	31414	33167	99
Doebler's	473HRQ	GT,L,ECB,CRW	37.0	27.2	7.1	35.5	40.4	2.7	0.79	52.9	3475	33138	33111	99
Pioneer	P0157AMX	GT, ECB, CRW	36.7	26.1	7.2	39.8	35.3	2.9	0.77	54.4	3395	30875	32278	100
Channel	Channel 20-3-44STXRIB	ECB,CRW,CEW,GT,LL	36.5	25.8	7.5	38.5	36.5	2.9	0.78	53.8	3451	31115	33222	103
Dekalb	DKC50-84RIB	ECB,CRW,GT	36.3	26.2	7.2	40.7	34.3	3.1	0.76	51.0	3292	30158	32667	100
TA Seeds	TA536-22DPRIB	CRW,RR	35.9	27.0	7.6	36.5	38.3	2.8	0.78	52.6	3505	33111	32056	103
Pioneer	P0210AM	GT, ECB	35.0	27.3	7.1	37.0	37.9	2.7	0.78	53.5	3545	33916	33778	102
Mycogen	TMF21538	ECB,CRW,BL,GT,LL	34.2	28.2	7.4	40.2	33.7	2.9	0.77	53.6	3426	33688	32778	101
Kings AgriSeeds	Masters Choice MC 5250	95 to 103 day Means	33.4	28.0	7.2	39.6	35.1	2.9	0.77	53.7	3506	34348	33556	102
			37.5	26.6	7.2	38.2	37.5	2.8	0.78	53.6	3383	31483	32701	
	MEAN		38.6	26.0	7.2	37.9	38.2	2.8	0.78	53.3	3328	30371	32699	
	CV		8.1	9.7	5.5	10.4	12.5	13.8	2.80	5.1	5.3	9.4	5.3	
	LSD(0.1)		2.4	2.0	0.7	NS	3.6	NS	1.8	1.21	2.126	1300		

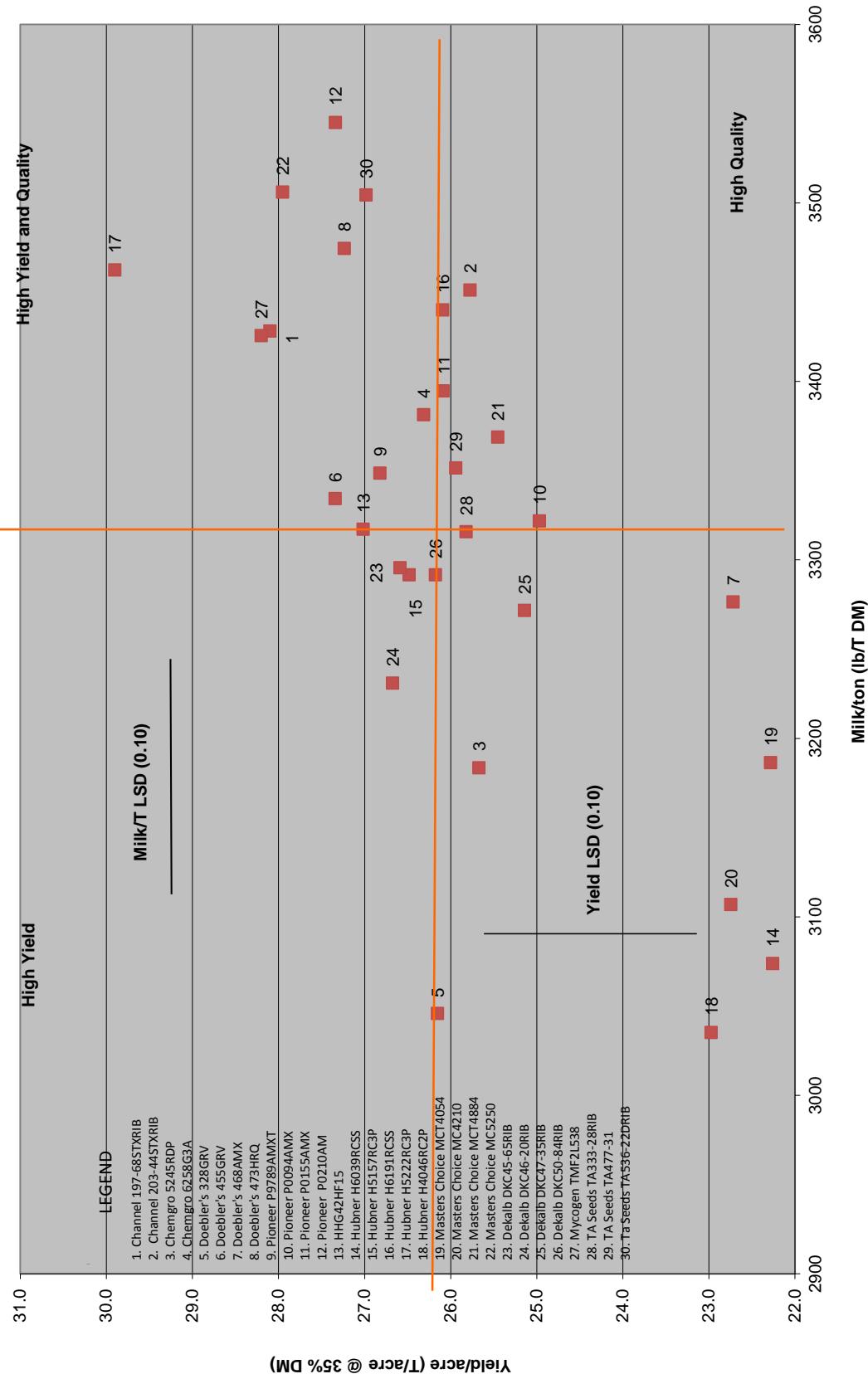
* Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis. CP=crude protein, NDF= neutral detergent fiber,

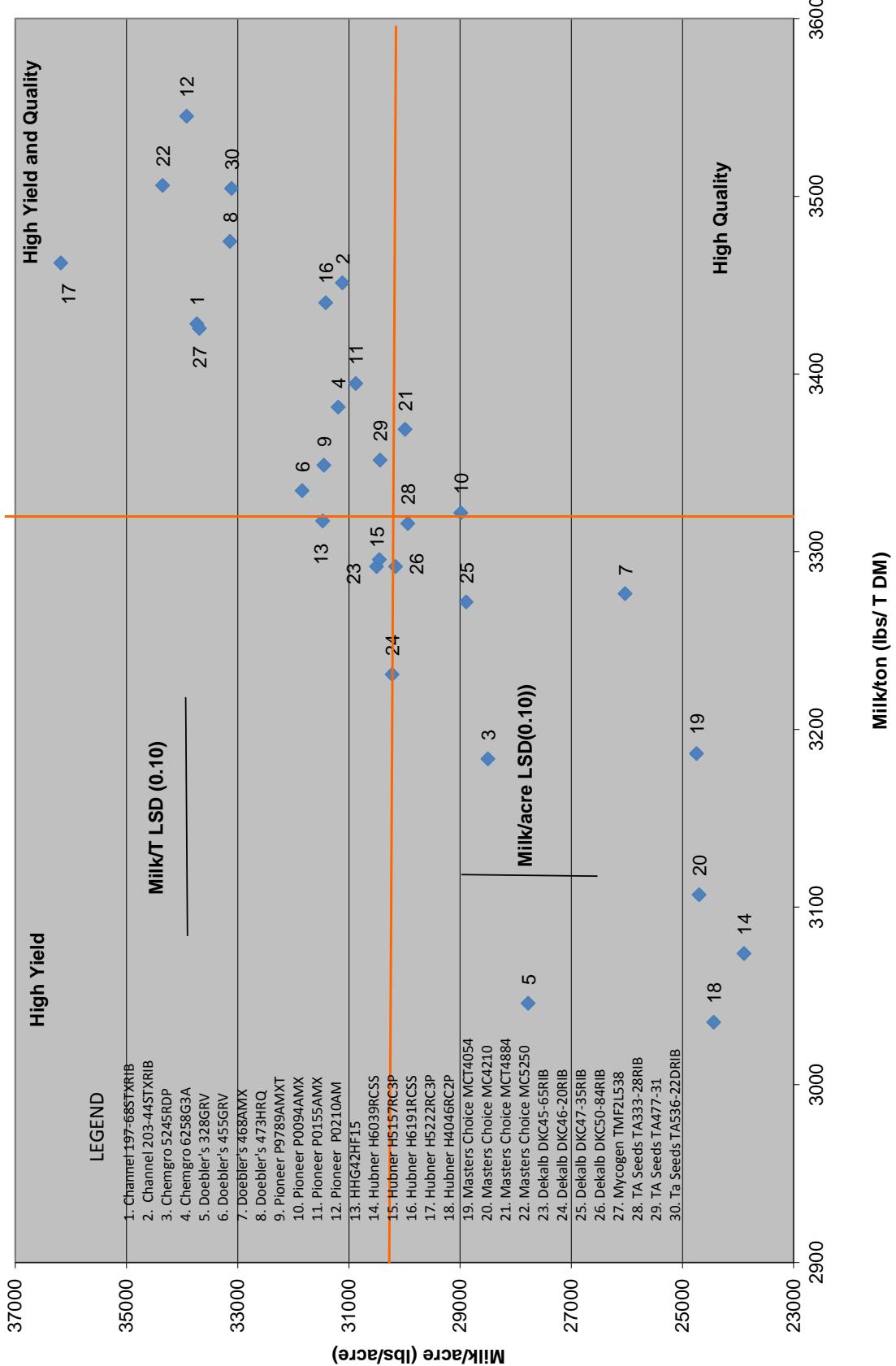
NEI=net energy for lactation, and NDFD=neutral detergent fiber digestibility. Milk/ton calculated using Milk 2006.

Traits: ECB= European Corn Borer, CRW= Corn Rootworm, BL=Broad lepidoptera Tolerant, WBC= Western Bean Cutworm, FAW= Fall Armyworm, BCW= Black Cutworm, GT=Glutamate Tolerant, ND= Nutridense

LL=Glucofuranose Tolerant, NS= Non-tolerant

Prepared by Greg W. Roth, James A. Breining, John A. Shaffer and W. Scott Harkom (Department of Plant Science).





Virginia Tech

2014 Corn Silage Trials

2014 Virginia Tech Corn Silage Trials

Table 1. List of Hybrids in the 2014 VA Tech Corn Silage Hybrid Test



Brand	Hybrid	ID	Trait Group ¹	DTM ²	OBS ³	Insecticide
Augusta	5262GTCBLL	8046	2	112	2	C1250
Augusta	7664VT3PRO	1009	31A	114	1	C1250
Augusta	8064VT2PRO	1010	30	114	2	C
Augusta	5565VT2PRO	1012	29	115	2	C1250
Augusta	A5465GTCBLL	8151	2	115	2	C1250
Augusta	6866GT3111	1001	9	116	1	C1250
Augusta	5566GTCBLL	1005	2	116	2	C1250
Augusta	6867GT3000	1011	6	117	1	C250
Augusta	8868VT3PRO	1006	31A	118	2	C250
Channel	214-14VT3PRIB	4754	31	114	4	A500/V
Channel	215-83STXRIB	4774	33	115	4	A500/V
Channel	218-73VT3PRIB	4797	31	118	4	A500/V
Chemgro	7348G3	8255	6	113	1	C
Chemgro	7746R3P	8253	31	115	1	C
Chemgro	7646R3P	8257	31	116	1	C
Chemgro	7658G3	8258	6	116	1	C
Doeblers	RPM® 647AM1™	5146	17	110	4	PH
Doeblers	RPM® 5315AMXT™	9206	19	113	4	PH
Doeblers	RPM® 689AMXT™	9209	19	113	4	PH
Doeblers	RPM® 743HXR™	5142	12	116	4	PH
Doeblers	5615GRQ	9207	6	116	4	C
Doeblers	5815GRQ	9208	6	118	4	C
Dyna-Gro	D55VP77	4084	31	115	2	PL
Dyna-Gro	D55QC73	4090	8	115	2	PL
Dyna-Gro	D58QC72	4089	8	118	2	PL
Hubner Seed	H5420RC3P	4863	31	110	4	A500/V
Hubner Seed	H4663RC2P	4868	30	113	4	A500/V
Hubner Seed	H5867RC3P	4865	31	115	4	A500/V
Masters Choice	MCT 6583	4806	6	115	2	C
Masters Choice	MCT 6753	4805	6	117	4	C
Mid-Atlantic Seeds	MA8111VT3P	4910	31A	111	1	A250
Mid-Atlantic Seeds	MA5122GT	4932	1A	112	1	C
Mid-Atlantic Seeds	MA8157VT3P	4919	31A	115	1	A250
Mid-Atlantic Seeds	MA5150GT	4933	1A	115	1	C
Mid-Atlantic Seeds	MA8162VT2P	4934	29	115	1	A250
Mid-Atlantic Seeds	MA8167VT3P	4743	31A	116	1	A250
NK	N75H 5122A Brand	8999	35	114	2	C
NK	N79Z 3111 Brand	1202	8	115	4	C
NK	N83D 3000GT Brand	9000	6	117	4	C
Pioneer	P1105AMX	5088	18	111	4	PH
Pioneer	P1319HR	5067	12	113	4	PH
Pioneer	P1498CHR	5068	23	114	4	PH
Pioneer	P1449XR	5075	14	114	4	PH
Pioneer	P1690AM	5074	17	116	4	PH
Pioneer	P2088AMX	5076	18	120	4	PH
Seed Consultants	SCS 11HR21™	4627	12	111	4	PH
Seed Consultants	SC 11AQ15™	4650	6	111	4	PH

2014 Corn Silage Trials

Brand	Hybrid	ID	Trait Group ¹	DTM ²	OBS ³	Insecticide
Table 1. List of Hybrids in the 2014 VA Tech Corn Silage Hybrid Test, continued.						

Brand	Hybrid	ID	Trait Group ¹	DTM ²	OBS ³	Insecticide
Seed Consultants	SCS 1131AM-R™	4645	15	112	4	C
Seed Consultants	SC 11AQ35™	4651	6	112	4	PH
Seed Consultants	SCS 11AGT43™	4652	2	113	4	PH
Seed Consultants	SCS 11HR63™	4638	12	115	4	PH
Seed Consultants	SC 11AGT74™	4653	2	116	4	PH
Seed Consultants	SC 11AQ72™	4637	6	117	4	PH
T.A. Seeds	TA765-30	5413	8	115	1	C
T.A. Seeds	TA780-13VPRIB	5417	31	116	1	C
T.A. Seeds	TA774-22VPRIB	5418	30	116	1	C
T.A. Seeds	TA784-13VPRIB	5411	31	118	1	C

¹ Trait Group according to Table 2.

² Days to maturity (DTM) provided by company; differences in maturity rating methods may exist.

³ Number of observations hybrid occurred (OBS); the greater the observations, the more reliable the data.

Shaded hybrids indicate hybrids entered in less than 3 locations. Hybrids are sorted by Brand then DTM.

Table 14. Three-Year Average Corn Silage Test Results (2012, 2013 & 2014) at the Southern Piedmont Site

Brand	Hybrid	ID	DTM ¹	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NE _L	TDN	Milk/2006	Milk/2006
Doeblers	RPM® 743HXR™	5142	-Days--	29.15%	18.01 ton/acre	8.24%	30.78 *	52.68 *	62.13 *	0.64 *	67.46 *	2929 *
Channel	218-73VT3PRIB	4797	116	29.91 *	17.64 *	8.17 *	8.05 *	30.90 *	53.70 *	0.63 *	66.29 *	2871 *
Seed Consultants	SCS 11HR21™	4627	118	29.15 *	17.43 *	6.10 *	7.95 *	30.01 *	52.27 *	0.60 *	59.60 *	18626 *
Seed Consultants	SC 11AQ72™	4637	111	29.15 *	17.43 *	5.98 *	8.24 *	31.29 *	53.63 *	0.63 *	61.21 *	2949 *
Masters Choice	MCT 6753	4805	117	29.93 *	17.02 *	5.96 *	8.40 *	31.06 *	52.51 *	0.64 *	59.64 *	66.42 *
Pioneer	P1498CHR	5068	114	28.80 *	16.33 *	5.72 *	8.14 *	30.53 *	53.02 *	0.65 *	60.44 *	2879 *
Seed Consultants	SCS 11HR63™	4638	115	29.18 *	17.21 *	6.02 *	8.04 *	32.40 *	55.55 *	0.62 *	57.90 *	17556 *
Channel	214-14VT3PRIB	4754	114	28.96 *	15.81 *	5.53 *	8.49 *	30.44 *	58.64 *	0.64 *	66.58 *	17533 *
												16905 *
	Site Average		29.22	17.07	5.97	8.19	30.93	53.18	59.87	0.64	66.57	2888
	LSD (0.10)		1.07	1.15	0.40	0.38	1.18	1.80	2.30	0.02	1.83	122
	C.V.		5.29	9.81	9.80	6.70	5.51	4.92	5.57	3.93	3.99	6
												1549
												12

¹Days to maturity provided by company; differences in maturity rating methods may exist between companies.

*Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Hybrids are listed in descending order of lb milk/acre.

Table 13. Two-Year Average Corn Silage Test Results (2013 & 2014) at the Southern Piedmont Site

Brand	Hybrid	ID	DTM ¹	DM at Harvest	Yield at 35% DM	DM Yield ton/acre	Crude Protein %	ADF %	NDF %	NDF Digest.	NE _L Mcal/lb	TDN %	Milk/2006	Milk/2006
Doeblers	RPM® 743HXR™	5142	-Days--	30.78	23.93 *	8.37 *	7.00	29.56 *	51.49 *	64.44 *	0.67	70.35 *	3.131	*
Seed Consultants	SCS 11HR21™	4627	111	30.70	23.63 *	8.27 *	6.74	28.83 *	51.86	64.15 *	0.66	69.82 *	3.095	*
Channel	218-73VT3PRIB	4797	118	31.42 *	23.28 *	8.15 *	7.07	28.83 *	51.84	62.97 *	0.66	69.56 *	3.088	*
Pioneer	P2088AMX	5076	120	29.07	22.40 *	7.84 *	6.77	31.18	53.85	65.39 *	0.67	70.53 *	3.125	*
Seed Consultants	SCS 11HR63™	4638	115	30.35	23.38 *	8.18 *	6.65	31.31	54.20	62.11	0.65	68.21 *	2.988	24546
Seed Consultants	SCS 1131AM-R™	4645	112	29.27	22.86 *	8.00 *	7.16	30.66	53.83	64.66 *	0.66	69.71 *	3.065	*
Seed Consultants	SC 11AQ72™	4637	117	29.73	22.52 *	7.88 *	7.11	29.96 *	52.62	63.74 *	0.66	69.73 *	3.086	*
Pioneer	P1319HR	5067	113	29.97	21.82	7.64 *	7.29	29.90 *	52.24	65.54 *	0.67	70.90 *	3.159	*
Masters Choice	MCT 6753	4805	117	30.81	22.23 *	7.80 *	7.45 *	30.11 *	51.35 *	63.28	0.66	69.46 *	3.075	*
Pioneer	P1690AM	5074	116	32.72 *	22.61 *	7.91 *	6.65	30.03 *	50.86	64.80	*	69.02	3.034	23998
Hubner Seed	H5420RC3P	4863	110	30.38	21.27	7.44	7.05	29.38 *	51.03 *	63.77	*	70.61 *	3.161	*
Pioneer	P1449XR	5075	114	28.64	21.30	7.45	7.81 *	29.57 *	52.25	66.01 *	0.67	70.49 *	3.125	*
Pioneer	P1498CHR	5068	114	29.94	21.21	7.42	7.05	29.92 *	52.97	64.05 *	0.67	70.50 *	3.144	*
Channel	214-14VT3PRIB	4754	114	30.27	20.79	7.28	7.58 *	28.75 *	49.73 *	61.30	0.67	69.92 *	3.139	*
Hubner Seed	H5867RC3P	4865	115	29.76	20.77	7.27	7.16	30.07 *	52.46	62.12	0.66	68.96	3.046	*
<hr/>														
Site Average			30.25	22.27	7.79	7.10	29.87	52.17	63.89	0.67	69.85	3.097	24167	
LSD (0.10)			1.41	1.84	0.64	0.43	1.65	2.02	0.02	1.63	1.16	2289		
G.V.			5.45	9.69	9.69	7.17	6.48	4.55	4.22	3.01	2.74	4	11	

¹Days to maturity provided by company; differences in maturity rating methods may exist between companies.

* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.

Hybrids are listed in descending order of lb milk/acre.

Table 12. 2014 Corn Silage Test Results at the Southern Piedmont Site

Brand	Hybrid	ID	DTM ¹	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	NDF Digest.	NE _L	TDN	Milk/2006	Milk/2006
Doeblers	RPM® 689AMXT™	9209	-Days--	26.92%	20.91 ton/acre	7.32*	7.46*	31.66*	55.43*	61.69*	0.66	69.78*	3066*	22393*
Doeblers	RPM® 743HXR™	5142	113	26.63*	20.35*	7.12*	7.24*	31.06*	54.43*	61.08*	0.67	70.18*	3111*	22187*
Channel	214-14VT3P/RIB	4754	114	27.34*	19.77*	6.92*	7.95*	29.48*	52.47*	60.34*	0.67	70.33*	3139*	21715*
Hubner Seed	H5420RC3P	4863	110	26.75*	19.42*	6.80*	7.34*	30.72*	54.03*	61.72*	0.67	70.79*	3150*	21423*
Doeblers	RPM® 647AM1™	5146	110	28.23*	19.22*	6.73*	7.41*	29.15*	51.88*	60.73*	0.68	70.95*	3185*	21416*
Seed Consultants	SCS 11HR63™	4638	115	25.64*	20.16*	7.05*	6.84*	33.41*	58.03*	61.46*	0.65	69.28*	3021*	21289*
Pioneer	P1319HR	5067	113	27.14*	19.56*	6.85*	7.66*	30.59*	53.65*	61.52*	0.67	70.35*	3120*	21278*
Master's Choice	MCT 6753	4805	117	26.89 *	19.72 *	6.90 *	7.71 *	31.01 *	53.76 *	60.19 *	0.66	69.34 *	3057 *	21123
Channel	218-73VTS3P/RIB	4797	118	27.90*	19.66*	6.88*	7.20*	30.37*	54.65*	59.16*	0.66	69.13*	3055*	21031*
Pioneer	P1105AMX	5088	111	25.74*	18.99*	6.65*	7.28*	30.82*	53.40*	60.94*	0.67	70.48*	3139*	20873*
Seed Consultants	SC 11AGT74™	4653	116	26.47*	19.59*	6.86*	7.32*	31.77*	55.68*	61.55*	0.65	69.42*	3038*	20843*
Doeblers	5615GRQ	9208	118	26.73*	18.61*	6.51*	7.35*	30.67*	54.29*	61.04*	0.67	70.06*	3102*	20552*
Seed Consultants	SCS 11HR21™	4627	111	24.83*	18.45*	6.46*	6.95*	31.62*	55.09*	61.76*	0.67	70.43*	3117*	20440*
Pioneer	P1498CHR	5068	114	27.02*	18.04*	6.31*	7.15*	31.04*	55.02*	62.21*	0.67	71.14*	3170*	20883*
Seed Consultants	SC 11AQ35™	4651	112	27.00*	18.33*	6.42*	7.62*	30.01*	52.69*	60.44*	0.67	70.20*	3126*	20071*
Channel	215-83STX/RIB	4774	115	25.60*	18.76*	6.57*	7.00*	33.77*	56.65*	62.05*	0.66	69.61*	3043*	19955*
Hubner Seed	H4663RC2P	4688	113	26.57*	18.41*	6.44*	7.62*	30.30*	53.67*	60.25*	0.67	69.80*	3095*	19835*
NK	N79Z 3111 Brand	1202	115	26.73*	18.54*	6.49*	7.19*	31.16*	55.02*	61.15*	0.66	69.76*	3073*	19833*
Seed Consultants	SC 11AQ72™	4637	117	25.78*	18.42*	6.45*	7.31*	31.59*	55.47*	61.93*	0.66	69.85*	3067*	19731*
Seed Consultants	SCS 1131AMR™	4645	112	24.85*	18.41*	6.44*	7.71*	32.81*	56.69*	63.58*	0.66	70.12*	3057*	19673*
Doeblers	RPM® 5315AMXT™	9206	113	25.58*	18.00*	6.30*	7.68*	30.69*	53.71*	62.08*	0.67	70.45*	3118*	19639*
Pioneer	P1690AM	5074	116	26.42*	18.37*	6.43*	7.08*	32.31*	55.08*	61.10*	0.66	69.33*	3040*	19807*
Seed Consultants	SCS 11AGT43™	4652	113	26.16*	18.40*	6.44*	7.78*	31.83*	55.62*	60.79*	0.65	69.02*	3019*	19417*
Pioneer	P2088AMX	5076	120	25.13*	18.19*	6.37*	7.34*	33.23*	56.44*	61.93*	0.66	69.69*	3051*	19412*
Seed Consultants	SC 11AQ15™	4650	111	25.61*	17.85*	6.25*	6.93*	31.31*	55.22*	60.59*	0.66	69.77*	3083*	19246*
Pioneer	P1449XR	5075	114	24.70*	17.86*	6.25*	7.72*	31.74*	55.79*	61.74*	0.66	69.78*	3063*	19182*
Hubner Seed	H5667RC3P	4865	115	26.41*	18.16*	6.35*	7.24*	31.55*	55.02*	60.09*	0.65	68.55*	2992*	19114*
NK	N83D 3000GT Brand	9000	117	26.35*	17.77*	6.22*	7.58*	31.60*	56.01*	62.70*	0.65	69.55*	3028*	18839*
Doeblers	5615GRQ	9207	116	26.16*	16.37*	5.73*	7.60*	30.60*	53.86*	60.75*	0.66	69.39*	3052*	17448*
Site Average			26.32	18.77	6.57	7.39	31.31	54.79	61.26	0.66	69.88	3082	20243	
LSD (0.10)			1.87	2.64	0.92	0.61	3.57	2.12	0.02	1.99	156	2978		
C.V.			4.68	9.29	9.28	5.47	6.32	4.32	2.29	1.89	3	10		

¹Days to maturity provided by company; differences in maturity rating methods may exist between companies.* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Hybrids are listed in descending order of lb milk/acre.

Table 9. 2014 Corn Silage Test Results at the Northern Piedmont Site

Brand	Hybrid	ID	DTM ¹	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest.	NE _L	TDN	Milk2006	Milk2006
Seed Consultants	SCS 1131AM-R™	4645	--Days--	32.26%	29.88 ton/acre	10.46 *	7.11 *	28.79 *	50.26 *	60.29	0.66	67.49	3001
Pioneer	P1690AM	5074	112	35.40 *	31.76 *	11.12 *	6.53	29.03	50.36 *	62.30	0.63	65.85	2843
Augusta	8868V/T3PRO	1006	118	32.73	29.99 *	10.50 *	6.59	30.00	51.40	62.08	0.65	67.28	31292
Pioneer	P2088AMX	5076	120	31.84	28.76	10.07	6.38	29.91	51.83	65.21	0.66 *	69.14	30867
Seed Consultants	SCS 11HR21™	4627	111	31.03	28.89 *	10.11 *	6.91	29.46	50.60 *	62.19	0.66	68.32	3045
Pioneer	P1319HR	5067	113	34.21 *	30.31 *	10.61 *	6.79	30.45	51.43	61.18	0.64	66.11	2878
NK	N792 3111 Brand	1202	115	32.65	29.44 *	10.31 *	6.85	29.95	51.42	59.81	0.65	66.69	2943
Channel	218-73V/T3PRIB	4797	118	31.92	28.94 *	10.13 *	7.06	28.64 *	50.59 *	59.91	0.65	67.23	30306
Seed Consultants	SC 11AGT74™	4653	116	33.75 *	28.41	9.94	7.47 *	27.97 *	49.40 *	63.07	0.66	68.05	3014
Seed Consultants	SCS 11HR63™	4638	115	33.32	28.98 *	10.14 *	6.40	30.24	52.03	62.24	0.65	67.07	2943
Channel	215-83STXRIB	4774	115	32.44	27.69	9.69	6.68	29.83	50.85	61.11	0.65	67.51	2993
Doeblers	RPM® 743HXR™	5142	116	32.26	27.47	9.61	6.59	30.00	51.22	63.42	0.66	68.14	3015
Hubner Seed	H5420RC3P	4863	110	32.09	27.98	9.79	6.43	30.82	52.33	60.23	0.65	66.89	2954
Hubner Seed	H4663RC2P	4868	113	31.30	27.59	9.66	6.71	29.80	50.26 *	59.68	0.66	67.25	2987
Doeblers	5815GRQ	9208	118	33.28	27.65	9.68	7.31 *	28.63 *	49.26 *	61.78	0.65	67.37	28771
Hubner Seed	H5867RC3P	4866	115	30.92	27.78	9.72	7.21 *	28.50 *	50.30 *	59.27	0.65	66.85	2862
Doeblers	RPM® 5315AMXT™	9206	113	30.97	26.95	9.43	6.79	29.61	50.73	61.22	0.66 *	67.93	3025
Channel	214-14V/T3PRIB	4754	114	33.16	26.87	9.40	7.17 *	27.94 *	48.06 *	59.65	0.66 *	67.69	3024
Pioneer	P1449XR	5075	114	29.20	25.48	8.92	7.57 *	28.45 *	49.84 *	67.46 *	0.68 *	70.79 *	3181
Seed Consultants	SC 11AQ15™	4650	111	31.64	26.25	9.19	7.07	28.42 *	47.69 *	59.29	0.67	68.25	3073
Pioneer	P1105AMX	5088	111	31.71	26.68	9.34	7.37 *	28.21 *	49.15 *	60.97	0.66	67.84	3022
Augusta	A5466GTCBLL	8151	115	34.61 *	27.67	9.68	7.11 *	29.10 *	49.94 *	60.71	0.64	66.12	2885
Seed Consultants	SC 11AQ72™	4637	117	30.82	26.81	9.38	7.06	29.59	51.38	62.07	0.65	67.55	2983
Augusta	5262GTCBLL	8046	112	32.37	26.55	9.29	7.37 *	28.33 *	48.49 *	59.21	0.66	67.21	2899
Pioneer	8064V/T2PRO	1010	114	32.50	26.56	9.29	7.21 *	27.79 *	49.68 *	58.09	0.65	66.95	27696
NK	N83D 3000GT Brand	9000	117	32.73	26.36	9.23	7.21 *	28.77 *	50.33 *	61.86	0.65	67.85	2995
Pioneer	P1498CHR	5068	114	33.79 *	26.53	9.28	7.44 *	28.88 *	49.37 *	61.98	0.65	67.30	27494
Masters Choice	MCT 6583	4806	115	32.53	25.73	9.00	7.55 *	27.39 *	48.74 *	60.29 *	0.67 *	68.17	3056 *
Doeblers	RPM® 647AM1™	5146	110	35.96 *	27.53	9.64	7.35 *	27.82 *	48.14 *	60.87	0.63	65.78	27397
Augusta	556AV/T2PRO	1012	115	32.17	25.85	9.05	7.21 *	28.72 *	50.31 *	59.88	0.66	67.49	3006
Doeblers	RPM® 689AMXT™	9209	113	32.19	25.30	8.86	7.50 *	28.60 *	49.05 *	60.32	0.66	67.87	3032
Augusta	5566GTCBLL	1005	116	31.69	24.67	8.64	7.31 *	29.44 *	51.68	63.43	0.65	68.03	3007
Seed Consultants	SC 11AQ35™	4651	112	31.73	24.66	8.63	6.90	29.63	49.61 *	58.12	0.65	66.69	25485
Masters Choice	MCT 6753	4805	117	31.76	24.87	8.71	6.77	30.32	52.35	61.37	0.64	66.48	2804
Seed Consultants	SCS 11AGT43™	4652	113	32.47	25.11	8.79	7.08	30.38	52.04	60.27	0.63	65.63	25021
Doeblers	5615GRQ	9207	116	31.97	22.84	8.00	7.02	28.30 *	49.28 *	60.26	0.66 *	67.94	3038
Site Average			32.43	27.24	9.54	7.03	29.10	50.26	61.14	0.65	67.40	2893	28405
LSD (0.10)			2.43	2.93	1.03	0.48	1.93	1.87	0.02	1.60	125	2801	
C.V.			6.23	8.95	5.73	5.53	4.86	2.55	1.97	4.38	8		

¹Days to maturity provided by company; differences in maturity rating methods may exist between companies.* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Hybrids are listed in descending order of lb milk/acre.

Table 6. 2014 Corn Silage Test Results at the Shenandoah Valley Site

Brand	Hybrid	ID	DTM ¹	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	NDF Digest.	NE _L	TDN	Milk2006	Milk2006
Channel	214-14VT3PRIB	4754	114	43.29	37.16	* 13.01	* 7.48	29.04	51.19	59.18	0.55	58.78	2321	30147 *
Pioneer	P1319HR	5067	113	43.57	34.20	* 11.97	* 7.31	30.92	54.27	65.06	* 0.56	60.60	2391	28645 *
Augusta	7664VT3PRO	1009	114	37.44	30.43	10.65	7.80	* 28.47	* 51.98	60.62	0.60	* 63.46	* 2666	* 28480
Channel	218-73VT3PRIB	4797	118	41.79	32.50	* 11.38	* 7.67	27.13	* 49.86	* 59.63	0.58	60.90	2478	28162 *
Seed Consultants	SCS 11AGT63™	4638	115	41.89	32.31	* 11.31	* 7.23	30.66	52.73	61.24	0.56	60.24	2406	27142 *
Augusta	6867GT3000	1011	117	40.37	30.68	10.74	7.56	29.14	51.80	61.92	0.58	* 61.80	* 2528	* 27101 *
T.A. Seeds	TA784-13VPRIB	5411	118	40.26	30.57	10.70	7.11	30.05	52.85	62.01	0.58	* 61.91	* 2527	* 27021 *
Hubner Seed	H4663RC2P	4686	113	43.45	32.84	* 11.49	* 6.97	31.57	53.41	61.13	0.55	59.41	2339	26884 *
NK	N792 3111 Brand	1202	115	38.86	29.90	10.46	7.76	* 29.96	53.38	61.61	0.59	* 62.08	* 2550	* 26638 *
Augusta	A5465GTCBLL	8151	115	42.35	30.37	10.63	7.72	28.76	49.96	* 63.03	0.57	61.42	* 2477	26320 *
Seed Consultants	SC 11AGT74™	4653	116	43.43	30.22	10.58	7.74	* 27.85	* 50.81	62.52	0.57	60.93	2453	25982 *
Augusta	5262GTCBLL	8046	112	46.86	32.45	* 11.36	* 7.31	29.27	49.96	* 61.18	0.54	58.88	2280	25900 *
Mid-Atlantic Seeds	MA5122GT	4932	112	41.84	29.89	10.46	7.51	29.25	50.42	60.29	0.57	60.57	2442	25445 *
Pioneer	P2088AMX	5076	120	42.46	29.86	10.45	7.49	28.44	* 50.51	61.96	0.57	60.63	2427	25424 *
Mid-Atlantic Seeds	MA8162VT2P	4934	115	41.19	29.72	10.40	7.58	29.04	51.18	58.72	0.57	60.11	2426	25350 *
NK	N83D 3000GT Brand	9000	117	45.30	29.41	10.29	7.84	* 27.28	* 47.85	* 61.69	0.57	61.23	2472	25315 *
Dyna-Gro	D550C73	4090	115	43.20	29.91	10.47	7.19	29.16	51.97	62.29	0.56	60.37	2406	25311 *
T.A. Seeds	TA765-30	5413	115	43.29	29.28	10.25	7.20	30.02	52.49	64.14	0.57	61.53	* 2469	25159 *
Augusta	8868VT3PRO	1006	118	41.83	29.04	10.16	7.18	29.13	51.31	61.75	0.57	61.19	2476	25111 *
Doeblers	RPM® 743HXR™	5142	116	46.78	30.78	10.77	6.96	30.26	52.30	64.27	0.54	59.18	2286	24800 *
Chemgro	7348G3	8255	113	46.23	30.05	10.52	7.36	29.36	49.61	* 60.05	0.55	59.27	2340	24650 *
Seed Consultants	SCS 11AGT43™	4652	113	44.77	30.23	10.58	7.28	29.70	51.82	61.07	0.55	59.63	2330	24611 *
Mid-Atlantic Seeds	MA8167VT3P	4743	116	40.43	27.00	9.45	7.75	* 27.92	* 50.20	* 60.87	0.59	* 62.10	* 2559	* 24293 *
Seed Consultants	SC 11AQ15™	4650	111	41.27	26.91	9.42	7.82	* 26.26	* 46.75	* 59.42	0.59	* 62.31	* 2580	* 24266 *
Chemgro	7658G3	8258	116	44.12	29.30	10.26	7.01	29.92	52.44	61.07	0.56	59.68	2365	24256 *
Augusta	5565VT2PRO	1012	115	43.53	28.93	10.13	7.47	29.54	52.67	61.47	0.56	59.95	2371	23992 *
NK	N75H 5122A Brand	8999	114	39.74	26.80	9.38	7.68	28.47	* 51.56	61.18	0.59	* 61.89	* 2542	* 23688 *
Seed Consultants	SCS 11HR21™	4627	111	44.75	27.95	9.78	7.54	28.30	* 48.72	* 61.18	0.56	60.30	2410	23504 *
Augusta	8064VT2PRO	1010	114	41.46	27.70	9.70	7.09	30.84	54.24	60.18	0.57	60.22	2418	23389 *
Doeblers	RPM® 647AM1™	5146	110	51.17	* 28.49	9.97	7.55	* 28.11	* 49.98	* 62.08	0.55	59.37	2331	23216 *
Augusta	5566GTCBLL	1005	116	41.01	25.51	8.93	8.27	* 27.33	* 49.56	* 63.52	0.59	* 62.93	* 2596	* 23150 *
Hubner Seed	H5867RC3P	4865	115	42.37	27.57	9.65	7.41	28.87	51.47	60.31	0.56	59.70	2380	23144 *
Seed Consultants	SC 11AQ35™	4651	112	45.15	28.33	9.91	6.99	30.13	51.99	62.32	0.55	59.16	2303	22831 *
Masters Choice	MCT 6583	4806	115	40.31	27.03	9.46	7.16	30.03	53.17	59.91	0.57	60.26	2431	22831 *
Chemgro	7746R3P	8253	115	44.58	28.16	9.86	6.97	31.12	53.08	62.01	0.55	59.13	2304	22751 *
Doeblers	RPM® 689AMXT™	9209	113	41.50	26.48	9.27	7.94	* 28.67	51.95	60.76	0.57	60.81	2458	22645 *
Doeblers	RPM® 5315AMXT™	9206	113	43.12	27.54	9.64	7.83	* 29.24	51.74	62.38	0.55	59.45	2332	22529 *
T.A. Seeds	TA780-13VPRIB	5417	116	42.20	27.05	9.47	7.25	29.92	52.85	60.54	0.56	59.58	2365	22318 *
Masters Choice	MCT 6753	4805	117	40.45	24.83	8.69	7.41	29.35	52.00	62.49	0.59	* 62.30	* 2555	* 22310 *
Pioneer	P1498CHR	5068	114	41.58	25.50	8.93	7.61	29.20	51.59	62.58	0.58	* 61.93	* 2524	* 22245 *
Seed Consultants	SC 11AQ72™	4637	117	43.51	25.73	9.01	7.44	28.80	49.99	* 61.96	0.57	60.62	2426	21879 *
Chemgro	7646R3P	8257	116	41.50	25.10	8.79	7.70	29.48	50.97	61.44	0.57	61.23	2479	21729 *
Mid-Atlantic Seeds	MA8111VT3P	4910	111	41.83	26.11	9.14	7.41	27.78	* 49.29	* 56.88	0.57	59.40	2389	21613 *
Augusta	6866GT3111	1001	116	41.35	24.28	8.50	7.70	28.81	50.04	* 62.59	0.58	* 62.01	* 2532	* 21467 *
Mid-Atlantic Seeds	MA8157VT3P	4919	115	39.18	24.38	8.53	7.25	30.53	53.36	60.57	0.58	* 61.51	* 2515	* 21391 *
Channel	215-83STXRIB	4774	115	43.76	24.85	8.70	7.77	* 27.55	* 48.89	* 61.18	0.56	60.29	2408	20974 *
Pioneer	P1690AM	5074	116	45.23	25.49	8.92	6.96	30.20	52.63	62.91	0.55	59.59	2330	20851 *
Doeblers	5615GRQ	9207	116	41.17	23.19	8.12	7.54	27.21	* 49.31	* 60.30	0.59	* 61.96	* 2555	* 20768 *
Hubner Seed	H5420RC3P	4863	110	41.68	24.61	8.61	7.13	30.15	52.65	59.69	0.56	59.97	2403	20677 *
T.A. Seeds	TA774-22VPRIB	5418	116	42.21	24.40	8.54	7.44	29.04	50.34	58.02	0.56	59.37	2374	20295 *
Mid-Atlantic Seeds	MA5150GT	4933	115	47.47	25.21	8.83	7.73	* 28.59	* 50.03	* 60.81	0.54	58.63	2274	20102 *
Seed Consultants	SCS 1131AM-R™	4645	112	45.13	24.35	8.52	7.56	29.90	52.07	61.57	0.55	59.26	2319	19755 *
Pioneer	P1449XR	5075	114	42.61	22.14	7.75	7.88	* 28.21	* 50.66	66.88	0.58	62.55	* 2522	* 19582 *
Dyna-Gro	D580C72	4089	118	40.71	21.41	7.49	8.01	* 27.08	* 48.91	* 60.96	0.59	* 62.23	* 2569	* 19390 *
Doeblers	5815GRQ	9208	118	42.87	21.96	7.69	7.81	* 27.43	* 49.61	* 61.59	0.58	61.31	* 2486	18988 *
Dyna-Gro	D55VP77	4084	115	43.83	22.44	7.85	7.46	28.15	* 50.44	59.42	0.56	59.75	2388	18899 *
Pioneer	P1105AMX	5088	111	47.81	* 20.76	7.27	7.08	30.36	52.74	62.66	0.55	59.28	2311	16761 *
Site Average				42.82	27.71	9.70	7.47	29.07	51.22	61.39	0.57	60.60	2431	23545 *
LSD (0.10)				3.47	5.46	1.91	0.54	2.37	3.52	2.55	0.02	2.19	164	4794 *
C.V.				6.43	15.71	15.71	6.17	6.98	5.87	3.55	3.46	2.86	5	16 *

¹Days to maturity provided by company; differences in maturity rating methods may exist between companies.

* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.

Hybrids are listed in descending order of lb milk/acre.

Table 15. 2014 Corn Silage Test Results at the Southwestern Virginia Site

Brand	Hybrid	ID	DTM ¹	DM at Harvest:	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest.	NE _L	TDN	Milk2006	Milk2006		
Seed Consultants	SCS 11HR21™	4627	111	56.97	30.43 *	10.65 *	7.38 *	29.36 *	48.88 *	63.54 *	0.59 *	62.59 *	27237 *		
Channel	218-73VT3PRIB	4797	118	60.04	30.88 *	10.81 *	6.89	29.66	49.28 *	62.58 *	0.58 *	62.06 *	27233 *		
Seed Consultants	SC 11AQ72™	4637	117	63.14	25.56	8.95	6.99	28.59 *	47.02 *	60.48	0.58 *	61.22 *	22331 *		
Dyna-Gro	D58QC72	4089	118	53.83	26.41	9.24	6.98	29.49 *	48.68 *	60.82	0.56	59.59	2351		
Seed Consultants	SCS 1131AM-R™	4645	112	62.63	25.54	8.94	7.46	28.85 *	47.60 *	60.87	0.56 *	59.81	2375		
Dyna-Gro	D55QC73	4090	115	58.71	24.85	8.70	7.06	29.85	48.45 *	60.57	0.56 *	60.00	2395		
Seed Consultants	SC 11AGT74™	4653	116	55.11	25.43	8.90	7.19	28.23 *	45.82 *	58.51	0.55	58.89	2326		
NK	N8SD 3000GT Brand	9000	117	56.05	24.39	8.54	7.38 *	29.30 *	47.51 *	60.22	0.57 *	60.19	2413 *		
Doeblers	RPM® 743HXR™	5142	116	55.04	23.86	8.35	6.98	28.72 *	47.66 *	60.39	0.57 *	60.58	2443 *		
Masters Choice	MCT 6753	4805	117	61.73	25.53	8.94	6.96	31.20	51.68	59.97	0.54	58.29	2254		
Dyna-Gro	D55VP77	4084	115	57.77	21.58	7.55	6.75	27.00 *	45.14 *	62.13	0.59 *	62.16 *	2552 *		
Hubner Seed	H4663RC2P	4868	113	61.82	22.59	7.90	6.88	29.48 *	49.83 *	61.86	0.57 *	60.75 *	19206		
Doeblers	5615GRQ	9207	116	60.75	22.00	7.70	6.95	28.97 *	48.58 *	63.64	0.57 *	61.37 *	18826		
Seed Consultants	SCS 11HR63™	4638	115	60.78	22.67	7.93	6.76	29.53 *	49.36 *	60.87	0.56	59.56	2353		
Doeblers	RPM® 5315AMXT™	9206	113	63.57	21.80	7.63	7.30	32.08	56.01	63.25	0.56	60.65 *	18342		
Doeblers	5815GRQ	9208	118	54.56	21.38	7.48	7.45	*	29.65	48.98 *	61.99	0.57 *	60.50	18202	
Hubner Seed	H5420RC3P	4863	110	69.40	*	21.42	7.50	27.98 *	45.94 *	59.52	0.57 *	60.27 *	18188		
Hubner Seed	H5667RC3P	4865	115	57.83	21.11	7.39	7.31	27.69 *	45.54 *	58.62	0.57 *	60.67 *	2461 *		
Seed Consultants	SCS 11AGT43™	4652	113	67.34	*	22.43	7.85	7.23	30.80	54.18	62.13	0.54	58.83	2275	
Doeblers	RPM® 689AMXT™	9209	113	61.12	20.83	7.29	7.74	*	29.32	50.17 *	60.99	0.56 *	59.95	17667	
Pioneer	P+690AM	5074	116	65.10	20.82	7.29	7.12	30.34	50.73 *	60.82	0.56	59.84	2377		
NK	N75H 5122A Brand	8999	114	57.54	21.45	7.51	6.51	32.60	57.09	61.58	0.54	58.50	16890		
Channal	215-83STXRB	4774	115	64.89	19.94	6.98	7.18	29.63	49.85 *	59.58	0.56	59.49	2366		
NK	N79Z 3111 Brand	1202	115	59.36	19.00	6.65	6.84	30.17	51.24 *	62.19	0.57 *	60.89 *	2441 *		
Channal	214-14VT3PRIB	4754	114	65.30	19.13	6.70	6.89	30.17	52.86	62.66 *	0.56	60.14 *	16237		
Doeblers	RPM® 647AM1™	5146	110	71.10	*	18.29	6.40	7.44	*	27.94	47.38 *	63.34 *	0.57 *	61.18 *	15772
Pioneer	P2088AMX	5076	120	62.46	20.04	7.01	6.80	32.34	55.86	62.38	0.53	58.08	2211		
Seed Consultants	SC 11AQ35™	4650	111	62.08	18.21	6.37	6.79	27.93 *	46.51 *	61.19	0.56	60.15	2391		
Seed Consultants	SC 11AQ15™	4651	112	66.72	*	18.49	6.47	6.90	29.92	50.76 *	60.05	0.56	59.44	15497	
Pioneer	P1105AMX	5088	111	69.54	*	16.47	5.76	7.28	*	51.36 *	63.88 *	0.57 *	61.34 *	14217	
Pioneer	P1449XR	5075	114	56.88	16.57	5.80	7.47	*	30.86	54.14	65.72 *	0.55	59.89	13461	
Pioneer	P1319HR	5067	113	61.71	15.27	6.35	6.61	28.94 *	48.81 *	61.45	0.56	60.68 *	2411		
Pioneer	P1498CHR	5068	114	59.71	14.78	5.17	7.18	30.70	54.61	63.86 *	0.56	60.48	2373		
Site Average			61.23	21.79	7.63	7.09	29.57	49.92	61.58	0.56	60.24	2397	18312		
LSD (0.10)			4.82	4.28	1.50	0.36	2.62	6.52	3.24	0.02	1.98	150	3727		
C.V.			6.13	15.35	15.35	4.33	7.51	11.06	4.45	3.21	2.56	5	16		

¹Days to maturity provided by company; differences in maturity rating methods may exist between companies.* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Hybrids are listed in descending order of lb milk/acre.

University of Florida

2014 Corn Silage Hybrid Variety Test
University of Florida, Gainesville, Florida



number Plot	Company	Hybrid	Relative Maturity	Yield Dry Tons/acre	Yield 35% DM T/Air/Ton of silage	Milk	Harvest DM %	Milk Ib/lb/cwt	Crude protein %	NDF	digestibility %	NDF digestibility %	Starch %	Sugar %	NEL Mcal/lb	TDN %	digestible NDF TIA	Yield
23	Agra Tech	76GVIP	115	8.66	24.7	3209	27829	31.1	8.5	46.2	55.6	27.9	5.6	0.69	67.1	2.21		
24	Agra Tech	84GVIP	118	8.66	24.7	3538*	30582	34.0	7.6	36.7	56.6	37.4*	5.2	0.75*	72.5*	1.79		
25	Agra Tech	8688vT3P	118	8.87	25.3	3272	29000	30.9	7.6	43.3	51.4	29.7	5.9	0.71	68.6	1.97		
26	Agra Tech	999vIP	124	9.26	26.5	3295	30494	30.6	8.0	44.9	54.6	26.5	6.8*	0.70	68.2	2.28		
27	Agra Tech	1023vIP	130	11.82*	33.8*	2963	34993*	31.8	8.4	47.6	48.2	24.7	4.9	0.68	65.6	2.71*		
28	Agra Tech	903vIP	118	9.91	28.3	3517*	31318	32.5	7.4	39.5	57.4	33.5*	5.7	0.74*	71.1*	2.02		
29	Agra Tech	1777vT3P	115	9.74	27.8	3102	30135	30.8	9.1*	47.1	54.9	23.4	7.5*	0.67	65.4	2.51*		
31	Augusta Seed	008 VT3 PRO	117	9.7	27.7	3386	32767*	29.7	8.0	42.6	56.8	30.4	5.7	0.71	68.8	2.35		
32	Augusta Seed	8868 VT3 PRO X	118	8.83	25.2	3384	29321	32.0	7.9	41.4	55.7	30.5	5.9	0.72	69.2	2.03		
33	Augusta Seed	6666 GT3111	116	8.61	24.6	3511*	30198	33.7	8.1	37.6	58.2	35.9*	5.9	0.74*	71.4*	1.88		
51	CropPlan Genetics	8621vT3P	117	9.59	27.4	3432	32341*	33.4	7.6	41.0	56.1	30.4	6.9*	0.73	70.2	2.20		
52	CropPlan Genetics	7327vT3P	117	10.32	29.5	3312	34227*	33.5	7.5	41.1	53.7	31.8	5.5	0.72	69.6	2.27		
6	Dynagro	D55QJC73	115	9.89	28.3	3408	33719*	30.3	8.0	41.7	54.9	30.2	6.1	0.72	69.7	2.26		
7	Dynagro	D57vNP75 vT3P	117	8.78	25.1	3538*	31120	31.0	7.3	39.4	55.5	32.5	5.5	0.74*	71.3*	1.91		
8	Dynagro	D59HB50 HXJPR2	119	9.63	27.5	3578*	34467*	33.4	7.7	34.9	54.2	38.5*	5.2	0.76*	72.9*	1.82		
9	Dynagro	CX13418	117	9.49	27.1	3536*	33542*	30.9	8.0	38.8	54.1	32.2	6.6*	0.74*	71.3*	1.99		
15	Masterschoice	MCT 6583	115	8.86	25.3	3265	28896	30.0	8.2	44.3	54.6	30.1	5.0	0.70	67.8	2.15		
16	Masterschoice	MCT 9864	118	8.30	23.7	3375	27945	33.5	7.0	41.1	54.8	31.8	5.7	0.73	70.1	1.87		
17	Masterschoice	MCT 630GT	115	9.88	28.2	3330	33498*	32.5	8.2	41.1	55.9	29.6	6.2	0.72	69.4	2.27		
18	Masterschoice	MCT 6753	117	8.58	24.5	3503*	30002	31.0	7.0	41.5	56.8	30.3	6.4	0.73*	70.5*	2.02		
19	Masterschoice	MIC 600M EXP	115	8.20	23.4	3264	28759	29.9	8.6*	44.1	55.6	26.5	6.5*	0.70	67.7	2.01		
20	Masterschoice	MIC 686N EXP	117	9.37	29.8	3455	32343	33.0	7.4	41.4	56.9	23.6	6.5	0.73	70.2	2.21		
21	Masterschoice	MIC 683M EXP	118	9.25	26.4	3261	30251	31.1	7.5	40.8	52.8	28.8	7.8*	0.72	69.8	1.99		
22	Masterschoice	MIC 674L EXP	117	8.89	25.4	3384	30145	33.5	7.9	40.2	54.6	31.7	6.8*	0.73	70.3	1.94		
10	Mycogen	TMF2L874	118	9.15	26.1	3335	30410	28.8	7.1	44.5	54.6	26.7	6.4	0.71	68.8	2.22		
11	Mycogen	F2F817	116	8.30	23.7	3510*	23135	30.1	8.3	44.6	62.9*	28.7	5.0	0.72	69.7	2.32		
12	Mycogen	TMF2H747	115	9.18	26.2	3206	28404	28.8	8.0	45.8	53.7	29.0	5.0	0.69	67.1	2.25		
13	Mycogen	TMF2H919	123	8.79	25.1	3326	29350	29.9	8.2	44.9	54.1	26.6	6.3	0.71	68.7	2.13		
14	Mycogen	TMF2L825	117	9.82	28.1	3343	32773*	30.8	6.8	43.4	52.4	30.8	5.8	0.72	69.2	2.24		

*Hybrids that performed similarly to the best hybrid. F-protected LSD Analysis. Probability <0.10

Planting date: March 11, 2014

Harvest dates were from June 26 to July 17, 2014.

Planting rate was 30,628 seeds/acre in 30 inch rows.

Fertilization: 150 lbs/A of 11-37-0 starter, 250 lbs of N; 56 lbs of P; and 173 lbs of K per acre.

2 applications of Headline fungicide

Milk per ton* of silage and 'milk per acre' of silage yield were calculated using the Milk 2006 formula from the University of Wisconsin.

2014 Corn Silage Hybrid Variety Test
University of Florida, Gainesville, Florida

Spring Planting																			
Company	Hybrid	Relative	Yield	Milk	Milk	Dry matter	Crude protein	NDF	NDF	Starch	Sugar	NEL	TDN	Moalib	%	Moalib	%	Yield digestible	
		Maturity Day: Dry Tons/acre	DM T/A	lb/ton	Ton of silage	Ibblacte	%	%	% digestibility, %	%	%	%						NDF, T/A	
40	Monsanto	DKC64-69 VT3P	114	8.21	23.5	3313	27214	30.1	8.2	43.5	55.6	31.3	4.5	0.70	68.2	1.98			
41	Monsanto	DKC66-87 VT2P	116	8.59	24.5	3473	28738	32.5	7.9	41.0	57.9	32.7	5.3	0.73	70.1	2.06			
42	Monsanto	DKC66-97 VT2P	116	7.95	22.7	3459	27478	33.4	7.8	41.0	56.8	32.4	5.2	0.73*	70.7	1.96			
43	Monsanto	DKD68-92 VT2P	116	9.03	25.8	3404	30700	33.0	7.5	40.9	55.4	30.3	7.1*	0.72	69.9	2.04			
43	Origin Seeds	004Y28Z7	116	9.64	27.5	3351	32168	30.7	8.2	44.3	56.5	26.6	6.9*	0.71	68.6	2.42			
50	Origin Seeds	004Y2888	116	9.01	25.7	3454	31174	32.3	8.1	42.1	58.0	30.2	6.3	0.73	70.1	2.20			
45	Pioneer	P1319HR	113	9.48	27.1	3531*	33398*	32.9	8.3	38.3	57.5	34.4*	5.4	0.74*	71.2*	2.10			
46	Pioneer	P1690YHR	116	10.22	29.2	3303	33710*	31.2	8.0	45.7	57.3	27.8	5.2	0.70	68.0	2.68*			
47	Pioneer	P1637YYH	116	9.68	27.7	3378	32660*	30.9	8.4	44.4	58.6	28.3	5.9	0.71	68.6	2.51			
48	Pioneer	P1794YYH	117	10.60	30.3	3363	35585*	32.8	7.9	42.7	56.0	29.8	5.8	0.71	69.0	2.55*			
30	Sun Prairie	SPX4095RR	116	9.2	26.3	3264	29371	32.2	8.2	45.1	55.8	29.4	5.1	0.7	67.5	2.32			
1	Syngenta	N77P-3111	114	9.56	27.3	3407	32573*	30.6	8.3	42.7	56.4	29.2	6.3	0.72	69.4	2.30			
2	Syngenta	N78S-3111	116	9.68	27.7	3598*	34832*	29.2	7.7	39.5	56.9	34.9*	5.2	0.75*	71.8*	2.17			
3	Syngenta	N79T-3111	116	8.92	25.5	3503*	31271	33.4	8.5	38.9	58.2	34.9*	5.4	0.74*	71.7	2.01			
4	Syngenta	N83D-3000GT	118	9.53	27.2	3416	32570*	31.8	8.0	42.0	56.1	30.0	6.4	0.72	69.8	2.24			
5	Syngenta	N68B-311	111	8.38	25.7	3684*	33061*	32.4	7.8	37.3	60.7	37.7	3.9	0.76	72.9*	2.04			
34	TA Seeds	802-220P	120	9.05	25.9	3336	30203	32.1	7.7	42.4	53.4	30.4	5.3	0.71	68.9	2.05			
35	TA Seeds	TA120-02	120	9.80	28.0	3333	32664*	34.1	7.5	42.3	53.9	31.8	5.1	0.72	70.0	2.23			
36	TA Seeds	TA780-130P	116	9.62	27.5	3577*	34316*	32.2	7.6	40.3	59.9	31.3	5.7	0.74*	71.4*	2.32			
37	TA Seeds	TA774-220P	116	8.39	24.0	3416	28685	32.2	8.0	41.1	54.9	31.5	5.2	0.73	70.1	1.90			
38	TA Seeds	TA790-18	119	9.11	26.0	3205	29143	30.4	7.6	45.6	54.0	25.5	6.6*	0.70	67.4	2.25			
39	TA Seeds	TA784-13VP	118	9.05	25.9	3314	29998	32.3	7.5	43.2	55.2	28.3	6.4	0.71	68.5	2.16			
		Mean		9.23	26.4	3386	31202	31.7	7.88	42.1	55.7	30.5	5.9	0.72	69.5	2.16			
		Standard error		0.34	1.7	90.4	1362	0.52	0.25	1.81	0.79	2.31	0.53	0.012	1.1	0.12			

*Hybrids that performed similarly to the best hybrid. F-protected LSD Analysis. Probability <0.10

Planting date: March 11, 2014

Harvest dates were from June 26 to July 17, 2014.

Planting rate was 30,628 seeds/acre in 30 inch rows.

Fertilization: 150 lbs/A of 11-37-0 starter, 250 lbs of N; 56 lbs of P; and 173 lbs of K per acre.

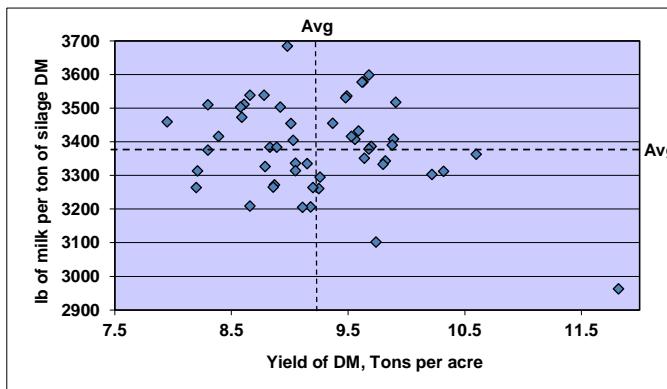
2 applications of Headline fungicide

Milk per ton' of silage and 'milk per acre' of silage yield were calculated using the Milk 2006 formula from the University of Wisconsin.

2014 Corn Silage Hybrid Variety Test; University of Florida; Spring Planting

Hybrids highlighted in yellow appear in the upper right quadrant of the graph

Company	Hybrid	Yield Dry Tons/acre	Milk lb/Ton of silage	Milk lb/acre
Agra Tech	76GVIP	8.66	3209	27,829
Agra Tech	84GVIP	8.66	3538	30,582
Agra Tech	868VT3P	8.87	3272	29,000
Agra Tech	999VIP	9.26	3295	30,494
Agra Tech	1023VIP	11.82	2963	34,993
Agra Tech	903VIP	9.91	3517	31,318
Agra Tech	1777 V13	9.74	3102	30,135
Augusta Seed	008 VT3 PRO	9.7	3386	32,767
Augusta Seed	8868 VT3 PROX	8.83	3384	29,921
Augusta Seed	6866 GT3111	8.61	3511	30,198
Croplan Genetics	8621VT3P	9.59	3432	32,941
Croplan Genetics	7927VT3P	10.32	3312	34,227
Dynagro	D55QC73	9.89	3408	33,719
Dynagro	D57VP75 VT3P	8.78	3538	31,120
Dynagro	D59HR50 HX/RR2	9.63	3578	34,467
Dynagro	CX13418	9.49	3536	33,542
Masterschoice	MCT 6583	8.86	3265	28,896
Masterschoice	MCT9864	8.30	3375	27,945
Masterschoice	MCT 630GT	9.88	3390	33,498
Masterschoice	MCT 6753	8.58	3503	30,002
Masterschoice	MC 600M EXP	8.20	3264	26,759
Masterschoice	MC 686N EXP	9.37	3455	32,343
Masterschoice	MC 683M EXP	9.25	3261	30,251
Masterschoice	MC 674L EXP	8.89	3384	30,145
Mycogen	TMF2L874	9.15	3335	30,410
Mycogen	F2F817	8.30	3510	29,135
Mycogen	TMF2H747	9.18	3206	29,404
Mycogen	TMF2H919	8.79	3326	29,350
Mycogen	TMF2L825	9.82	3343	32,773
Monsanto	DKC 64-69 VT3P	8.21	3313	27,214
Monsanto	DKC 66-87 VT2P	8.59	3473	29,738
Monsanto	DKC 66-97 VT2P	7.95	3459	27,478
Monsanto	DKC 68-92 VT2P	9.03	3404	30,700
Origin Seeds	004Y2827	9.64	3351	32,168
Origin Seeds	004Y2888	9.01	3454	31,174
Pioneer	P1319HR	9.48	3531	33,398
Pioneer	P1690YHR	10.22	3303	33,710
Pioneer	P1637VYHR	9.68	3378	32,660
Pioneer	P1794VYHR	10.60	3363	35,585
Sun Prairie	SPX4095RR	9.2	3264	29,971
Syngenta	N77P-3111	9.56	3407	32,573
Syngenta	N78S-3111	9.68	3598	34,832
Syngenta	N79T-3111	8.92	3503	31,271
Syngenta	N83D-3000GT	9.53	3416	32,570
Syngenta	N68B-3111	8.98	3684	33,061
TA Seeds	802-22DP	9.05	3336	30,203
TA Seeds	120-02	9.80	3333	32,664
TA Seeds	780-13DP	9.62	3577	34,316
TA Seeds	774-22DP	8.39	3416	28,685
TA Seeds	790-18	9.11	3205	29,143
TA Seeds	784-13VP	9.05	3314	29,998
<hr/>				
Mean				
9.23				
3386				
31202				



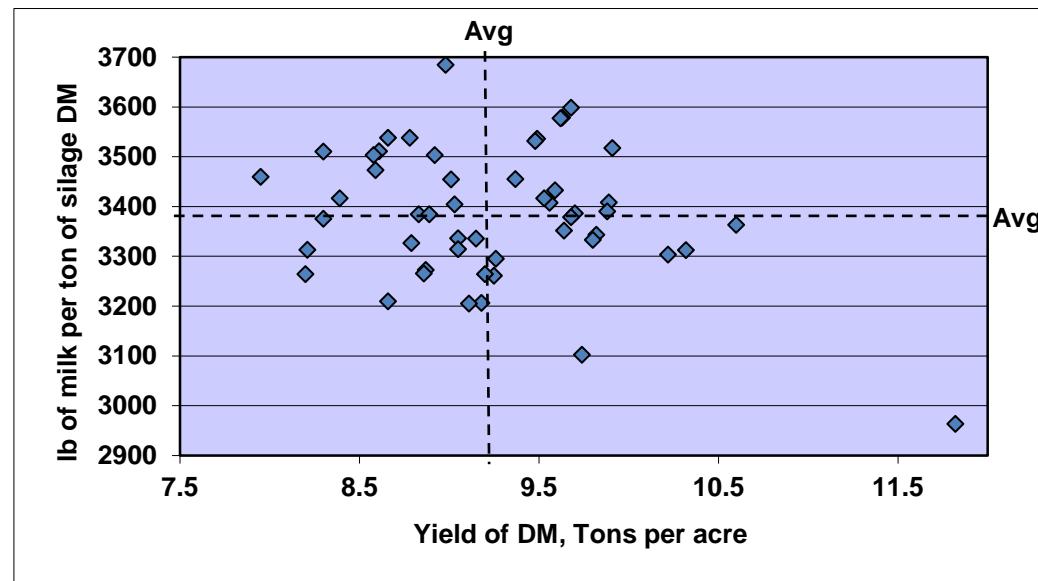
2014 Corn Silage Field Day Corn Hybrid Variety Test, Spring Planting

University of Florida, Gainesville, Florida

Spring Planting

These varieties appear in the upper right hand quadrant of the graph below.

Company	Hybrid	Yield Dry Tons/acre	Milk lb/Ton of silage	Milk lb/acre
Agra Tech	903VIP	9.91	3517	31,318
Augusta Seed	008 VT3 PRO	9.70	3386	32,767
Croplan Genetics	8621VT3P	9.59	3432	32,941
Dynagro	D55QC73	9.89	3408	33,719
Dynagro	D59HR50HX/RR2	9.63	3578	34,467
Dynagro	CX13418	9.49	3536	33,542
Masterschoice	MCT 630GT	9.88	3390	33,498
Masterschoice	MC 686N EXP	9.37	3455	32,343
Pioneer	P1319HR	9.48	3531	33,398
Syngenta	N77P-3111	9.56	3407	32,573
Syngenta	N78S-3111	9.68	3598	34,832
Syngenta	N83D-3000GT	9.53	3416	32,570
TA Seeds	780-13DP	9.62	3577	34,316



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High Energy Forages and Soil Building Cover Crops



THE UNIVERSITY OF
MAINE
Cooperative Extension

A Member of the University of Maine system

2013 Maine Corn Hybrid Performance Trial



Funding provided by local seed companies and the University of Maine Cooperative Extension.

Special thanks to John Stoughton and the farm crew at Misty Meadows Farm for hosting the trial and helping with planting and harvesting.

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In 2013, the University of Maine Cooperative Extension conducted a hybrid silage corn evaluation program in cooperation with local seed dealers, Maine Farm Days and Misty Meadows Farm who hosted the trial in Clinton, Maine.

The purpose of the program is to provide unbiased performance comparisons of hybrid corn available in the central Maine area. It is important to remember that the data presented are from a single test at one location. Hybrid performance data from additional tests in different locations, and often over several years, should be compared before you make conclusions.

Contacts for corn hybrid seeds in 2013 trial

American Organics

Paris Farmers Union Milt Sinclair (207) 743-1291 miltwspfu@hotmail.com

Blue River

AgMatters LLC Lauchlin Titus (207) 314-2655 LTitus1@myfairpoint.net
Newman Gamage (207) 622-5009 (H) (207) 446-5620 (M)

Dairyland

Dairyland Seed Co. James Stone 800-236-0163 (262) 685-8859 jstone@dairyland.com
Northeast Agricultural Sales*

Paris Farmers Union Milt Sinclair (207) 743-1291 miltwspfu@hotmail.com

DeKalb

Crop Production Services**
Klaus Busch (518) 320-246 klaus.j.busch@monsanto.com
Northeast Agricultural Sales*

Dynagro

Crop Production Services**

Masters Choice

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Paris Farmers Union Milt Sinclair (207) 743-1291 miltwspfu@hotmail.com

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MPG Crop Services Tim Donovan (207) 877-5923 tdonovan@mpgco-op.com
Northeast Agricultural Sales*
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Syngenta/NK Jonathan Stevens (207) 538-7150 jonathan.stevens@syngenta.com

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Schlessman Seeds

Gold Star Feed and Grain, LLC Michele Bennett (207) 754-0764 mbennett@goldstarfeed.com

Seedway

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Feed Commodities International Al Fortin (207) 341-0968 afortin@feedcommodities.com
Maine Seed Company Tate McPherson (207) 551-8301 tate@mainsseedcompany.com
MPG Crop Services Tim Donovan (207) 877-5923 tdonovan@mpgco-op.com

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Spencer Greatorex	(207) 341-1375 (M)	svg1@adelphia.net
Wayne Bartlett	(209) 416-2795 (M)	bartlettw1@hotmail.com

****Crop Production Services (Office: (207) 795-6640)**

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Franklin Leavitt	(207) 944-1922 (M)	Franklin.Leavitt@cpsagu.com
Randy Drown	(207) 650-0310	randy.drown@cpsagu.com

TESTING PROCEDURE

The experiment was planted at the Misty Meadows Farm in Clinton on May 31, 2013, using a six-row corn planter. The predominant soil type was Woodbridge fine sandy loam. A cover crop of winter rye was harvested prior to planting and the residual material was chisel plowed.

Prior to planting, 10,000 gallons per acre of liquid cow manure was applied to the field and incorporated by harrowing. Five gallons per acre of liquid starter fertilizer (6-21-4) was applied at planting. Lumax herbicide (3 quarts per acre) plus atrazine (1 pound per acre) were applied immediately after planting. When the corn was 12 inches tall, 50 pounds of nitrogen were applied per acre as urea.

Three replications of 35 hybrids were planted in a randomized block design. Plots were 75 feet long and 15 feet wide with 6 rows on 30 inch centers. The hybrids used were nominated and donated by seed companies. Hybrids had relative maturity days ranging from 79 to 102 (Tables 2 and 3). We targeted a planting density of 32,000 plants/acre.

The plots were harvested using a six-row corn chopper. Corn from each plot was loaded into a mixer wagon with scales. Grab samples from one replicate of each treatment were frozen and sent to the Dairy One Laboratory in New York for analysis for moisture and quality using wet chemistry.



Growing degree days were calculated using temperature data collected by the National Oceanic and Atmospheric Administration's National Climate Data Center (www.ncdc.noaa.gov) in Augusta, Maine. Total growing degree days (86/50) were 2027 for 2013 (Table 1). The experiment was harvested on October 3, 2013. At this time, silage harvest was underway on commercial farms. A killing frost had not yet occurred.

Table 1. Growing degree days, Maine corn silage variety trial, 2007-2013.

Year	Location	Growing degree days (86/50)
2007	Clinton	2086
2008	Clinton	1840
2009	Leeds	1908
2010	Leeds	2120
2011	Clinton	2287
2012	Clinton	2160
2013	Clinton	2027



A total of 24.66 inches of rain was recorded in Waterville, Maine, by the National Weather Service between June 1 and September 30, 2013 (Table 2).

Table 2. Monthly rainfall, June – September, Waterville, Maine.

	Rain (inches)
June	5.19
July	4.22
August	6.74
September	8.51
Total	24.66

Analysis of variance was conducted to identify differences between hybrid silage yield (corrected to 30% dry matter) and expected milk yield (milk per ton of dry matter multiplied by dry matter). Linear regression analysis was conducted to see the effect of relative maturity on silage yield, expected milk yield, % dry matter, and all quality parameters.

RESULTS

Yield and quality data were not collected from one plot of Mycogen TMF2Q413 that had been highly damaged by wildlife, likely raccoons. Interestingly, the damage appeared to be limited to this plot alone. The grab sample from American Organics 90G had high ash content, suggesting contamination with soil. The quality data from this sample were not used, although the dry matter content was used to calculate standardized dry weight.

Yield and Expected Milk Yield

Yields were corrected to a standard 30% dry matter. Forage digestibility and energy content were used to project potential milk yield (milk lbs/ton of dry matter). Expected milk yield per acre was calculated by multiplying the potential milk per ton



of dry matter by the tons of dry matter per acre. This serves as another measure of productivity of each hybrid. Both yield (30% DM) and expected milk yield results are shown in Table 3.

Analysis of variance showed that there were significant differences among the hybrids tested for both yield ($p < 0.0001$) and expected milk yield ($p < 0.0001$). In Table 3, hybrids followed by the same letter are statistically similar (Tukey's HSD).

There was no linear correlation between relative maturity and yield (30% dry matter) (Figure 1) or between relative maturity and expected milk yield (Figure 2) ($p=0.2648$ and $p=0.1189$, respectively).

Table 3 includes data from two BMR (brown mid-rib) varieties. BMR varieties need to be evaluated for their higher digestibility and enhanced animal intake and performance if rations are balanced correctly. When comparing these varieties, producers should make sure they look at NDF digestibility (NDFD, % of NDF). Producers should segregate BMR varieties at harvest to utilize this feed with cows for specific rations, including pre-fresh, fresh and high producing groups.



Table 3. Varieties and yield, 2013.

Hybrid	RM	Yield, 30% DM (tons/acre)*			Expected milk yield (lbs/acre)**,***
American Organic 3 G03	94	25.0	ab		26,388 ab
American Organic 90 G	90	23.9	abc		. .
American Organic PB 5503	85	20.9	bcd		21,045 b-j
Blue River 21L90	85	22.2	abcd		21,474 b-j
Blue River 33L90	93	21.2	abcd		18,145 g-j
Blue River 43L96	98	22.4	abcd		19,042 e-j
Schlessman 234gt3000	101	22.8	abcd		22,459 b-i
Schlessman 868 gt	86	21.7	abcd		20,273 c-j
Schlessman 901gt3110	90	21.6	abcd		22,068 b-j
Dairyland DS 7085	85	18.9	cd		17,963 hij
Dairyland HiDF 319707	97	24.2	abc		25,627 abc
Dairyland HiDF 3290-9	90	23.6	abcd		23,727 a-f
DeKalb DKC 38-04	88	24.2	abc		24,307 a-e
DeKalb DKC 43-48	93	23.0	abcd		23,227 a-h
DeKalb DKC 46-20	96	24.6	ab		24,839 a-d
Dynagro 26VP56	86	23.3	abcd		25,011 abc
Dynagro 31VP31	91	22.0	abcd		23,699 a-g
Dynagro 34VN19	94	20.8	bcd		20,292 c-j
Masters Choice MC4050	90	21.3	abcd		22,479 b-i
Masters Choice MC480	87	24.3	abc		25,200 abc
Masters Choice MCT4881GT	98	21.7	abcd		21,234 b-j
Mycogen 2H079	79	26.6	a		28,773 a
Mycogen F2F298	89	18.1	d		18,288 f-j
Mycogen TMF2Q413	95	18.2	cd		16,800 ij
Northrup King N19L 3110A	85	24.5	ab		16,630 j
Northrup King N29T 3220	92	23.3	abcd		23,121 b-h
Northrup King N36A 3000GT	96	21.9	abcd		21,715 b-j
Pioneer P1376XR bmr	102	22.0	abcd		17,411 ij
Pioneer P8906AM	89	22.1	abcd		21,582 b-j
Pioneer P9411HR	94	22.1	abcd		22,931 b-i
Pioneer P9807HR	98	21.5	abcd		22,388 b-i
Seedway SW 2901L	86	23.8	abc		22,654 b-i
Seedway SW 3301L	91	23.4	abcd		21,027 b-j
Seedway SW 3904L	94	23.7	abc		19,343 d-j
Seedway SW 3937.bmr	95	19.7	bcd		20,191 c-j

*Means followed by the same latter are not statistically different (Tukey's HSD)

** ***Expected milk yield = calculated milk lbs/ton multiplied by dry matter yield. Calculated milk lbs/ton is a projection of potential milk yield per ton of forage dry matter, based on forage digestibility and energy content.

Figure 1. Effect of Relative Maturity on Corn Silage Yield (corrected to 30% DM) (2013)

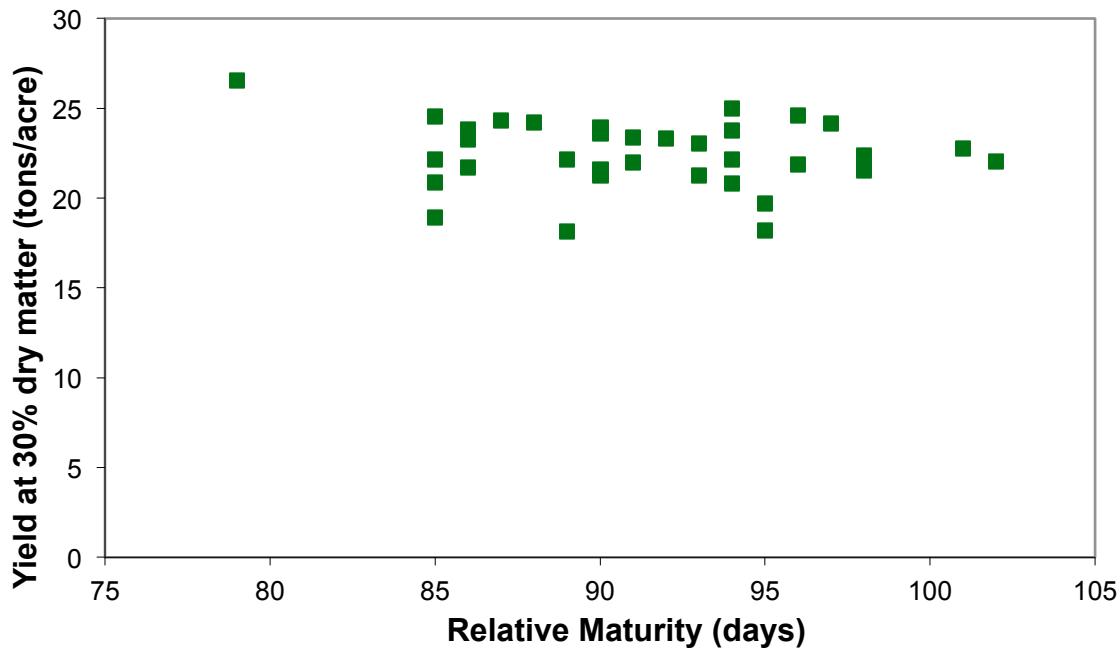
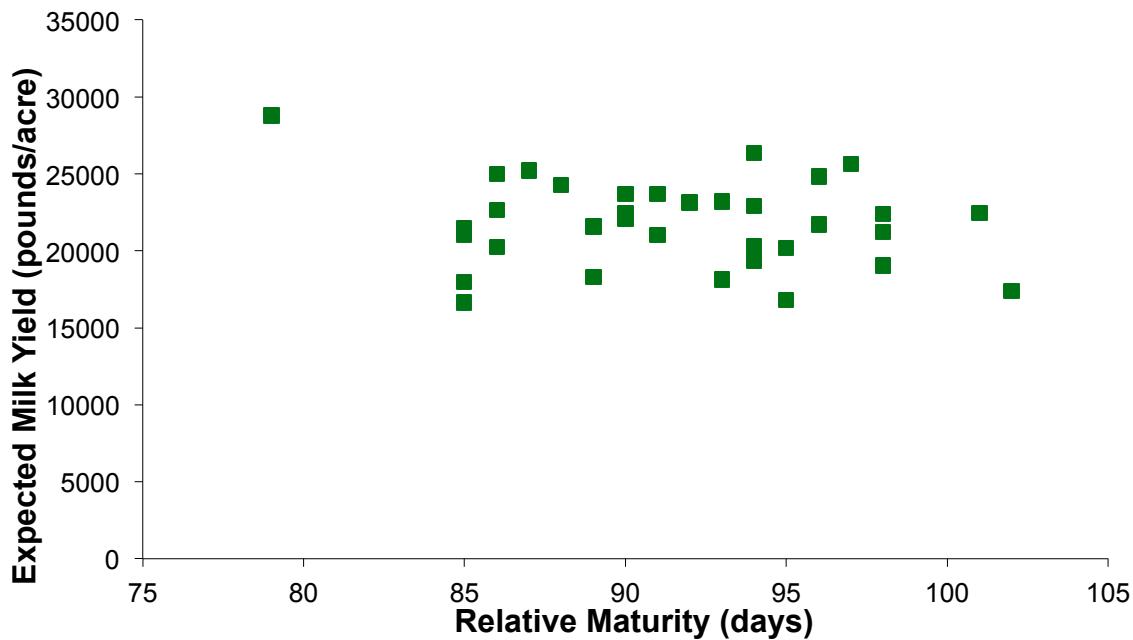


Figure 2. Effect of Relative Maturity on Expected Milk Yield Per Acre (2013)



Quality

Table 4 lists select quality results for the 2013 trial.

Dry matter decreased as relative maturity increased, as shown in Figure 9. There was a significant linear effect with an r^2 of 0.288. In 2013, early-maturing varieties tended to be at optimum or higher dry matter; later-maturing varieties tended to be below optimum dry matter.

There were no significant linear relationships between relative maturity and any quality parameters, including net energy of lactation, digestibility (IVTD 30 hr (as % of dry matter) and NDFD (as % of NDF)), or % crude protein.



Figure 3. Effect of Relative Maturity on Dry Matter (2013)

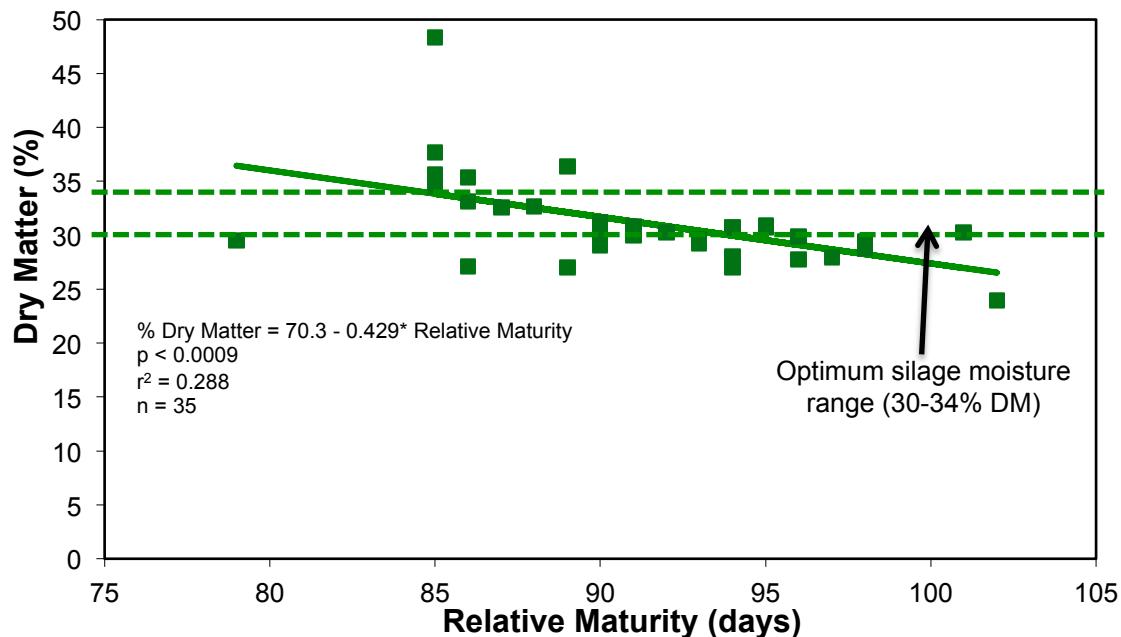


Table 4. Varieties and select quality results, 2013.

Hybrid	RM	Dry Matter (%)	Crude Protein (%DM)	NDF (%)DM	NFC (%)DM	NEL (Mcal/lb)	IVTD 30hr (%ofDM)	NDFD 30hr (%ofNDF)
American Organic 3 G03	94	30.7	7.1	39.6	47.7	0.79	82	55
American Organic 90 G	90	31.2	no data	no data	no data	no data	no data	no data
American Organic PB 5503	85	37.7	6.4	41	48.5	0.79	81	53
Blue River 21L90	85	35.7	6.3	46.5	43.1	0.74	78	54
Blue River 33L90	93	29.6	5.2	54.7	36.4	0.66	75	55
Blue River 43L96	98	28.8	6.8	49.6	39.5	0.71	78	55
Schlessman 234gt3000	101	30.3	5.7	45.1	45.4	0.77	81	58
Schlessman 868 gt	86	27.1	6	47.8	41.9	0.75	80	59
Schlessman 901gt3110	90	29	6	40.2	48.9	0.78	82	54
Dairyland DS 7085	85	34.5	5.2	45.1	44.2	0.72	77	50
Dairyland HiDF 319707	97	27.9	5.8	45.5	44.3	0.77	81	59
Dairyland HiDF 3290-9	90	30.3	6.6	41.3	46.8	0.75	79	50
DeKalb DKC 38-04	88	32.7	6.9	41.7	46.1	0.75	79	50
DeKalb DKC 43-48	93	29.2	5.5	45.2	45.4	0.77	81	59
DeKalb DKC 46-20	96	29.9	6.3	46	43.7	0.76	80	57
Dynagro 26VP56	86	35.3	6.1	38.6	51.3	0.83	84	57
Dynagro 31VP31	91	30.8	5.6	41.6	48.9	0.8	82	58
Dynagro 34VN19	94	27	7	44.5	43.7	0.78	82	59
Masters Choice MC4050	90	30.8	5.4	42.2	48	0.78	81	56
Masters Choice MC480	87	32.6	5.5	41.1	49.6	0.79	82	56
Masters Choice MCT4881GT	98	29.2	6.2	44.6	44.8	0.77	81	58
Mycogen 2H079	79	29.5	6.9	41	47.2	0.79	82	56
Mycogen F2F298	89	27	5.7	43	47.6	0.79	86	68
Mycogen TMF2Q413	95	30.9	6.6	50	38.4	0.71	77	54
Northrup King N19L 3110A	85	48.3	6.2	43.4	42.5	0.67	75	43
Northrup King N29T 3220	92	30.3	5.8	47.1	43.4	0.72	77	52
Northrup King N36A 3000GT	96	27.8	7.4	42.4	45.4	0.77	81	55
Pioneer P1376XR bmr	102	23.9	5.5	45.2	41.3	0.74	83	62
Pioneer P8906AM	89	36.4	6.7	44.4	44.6	0.75	78	51
Pioneer P9411HR	94	30.7	5.4	43.1	47.2	0.76	80	54
Pioneer P9807HR	98	29.4	5.7	40.6	49.9	0.81	83	58
Seedway SW 2901L	86	33.1	6.9	48.1	40.3	0.71	77	52
Seedway SW 3301L	91	30	7.2	46.6	40.5	0.72	78	53
Seedway SW 3904L	94	28	6.7	51.3	35.8	0.66	75	52
Seedway SW 3937.bmr	95	30.7	7.5	42.4	45.3	0.79	85	66

CONCLUSION

The 2013 growing season for corn silage proved to be difficult, especially early in the season, as persistent rains in June made it difficult for some growers to get their corn planted. We were able to plant in May on a wet field, helped in part by a winter rye crop that was planted last fall and harvested for feed prior to field preparation for our trials.

Moisture was adequate throughout the season and a warm late summer and early fall helped to provide the necessary growing degree days necessary for many of the varieties in our trial, based on whole plant moisture, to reach optimum quality for corn silage harvest.

This was the second year out of the seven years of the trial where there was no significant linear relationship between relative maturity and yield corrected to 30% dry matter. In the remaining five years of the trial, this relationship was significant but weak (low r^2), and it amounted to an increase of 0.97 – 1.9 tons per acre yield for every 10-day increase in relative maturity (Table 4).

Table 4. Increase in yield (30% dry matter) and expected milk yield for each 10 days increase in relative maturity as estimated by linear regression (2007 – 2013).

	Tons/acre yield (30% DM) increase per 10 days maturity	Pounds/acre expected milk yield increase per 10 days maturity
2007	1.1	.
2008	0.97	.
2009	No relationship	91
2010	1.9	2890
2011	2	3280
2012	1.1	1480
2013	No relationship	No relationship

In 2013, there was also no significant linear relationship between relative maturity and expected milk yield. Again, these relationships have been weak, but consistent in the past, with an increase of 91 – 3280 pounds per acre of milk expected for each 10-day increase in relative maturity (Table 4).

Shorter season hybrids offer options for improved cover crop establishment and the potential for double cropping. Although they may be slightly less productive in some growing seasons, this additional crop flexibility can significantly improve the total yield of digestible nutrients per acre. There is risk associated with choosing longer season hybrids for higher yield. Yield responses to longer maturity was greatest in the highest growing degree years, and it was not present under average growing conditions. By choosing short-season or mid-season varieties, producers help to guarantee a level of maturity and dry matter that produces quality corn silage that ferments well in the silo.

They become less vulnerable to late wet harvest years. This also opens the door for improved nutrient and soil management options such as cover cropping.

Most earlier-maturing hybrids showed optimum or close to optimum dry matter content at harvest time. Later-maturing hybrids had somewhat lower than recommended dry matter content at harvest. In all seven years of the trials there has been a significant linear relationship between relative maturity and dry matter, with later-maturing hybrids being wetter at harvest. In 2010, 2011, and 2013, hybrids with shorter maturities showed higher dry matter content than recommended, indicating that they could have been harvested earlier.

ACKNOWLEDGEMENTS

We would like to thank John Stoughton and the farm crew at Misty Meadows Farm for their help with planting, crop management, and harvest. Thanks are also extended to the seed dealers who helped with seed donation, planting, and harvesting and to staff and students who helped in the field and in the office.



University of Georgia

University of Georgia Corn Silage Trials, 2014

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage: Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2014

Company or Brand Name	Hybrid Name	Quality Factors ¹			Dry Matter Yield				
		Milk Production ²		Grain Portion %	Statewide Average	Dry Matter Yield tons/acre			
		Ibs/ton DM	Ibs/acre			Blairsville	Calhoun	Griffin	Tifton
<u>Short -Season</u>									
Croplan Genetics	7087 VT3P	3724	35591	55	.	13.3	7.8	.	9.7
DeKalb	DKC61-79	3687	31995	57	8.1	11.1	5.5	6.6	9.1
DeKalb	DKC64-69	3641	38935	53	9.5	10.5	9.0	8.5	10.1
Dyna-Gro	D55GT73	3654	42541	56	10.3	11.0	9.8	8.6	11.7
Dyna-Gro	D55QC73	3705	40179	52	.	.	7.8	8.4	11.4
MC	EXP 600M	3798	34981	55	9.1	11.1	7.7	8.3	9.2
MC	MCT-630GT	3582	35232	55	10.2	12.7	10.3	7.3	10.3
MC	MCT-6583	3574	36796	56	.	.	.	7.8	10.3
Mycogen	TMF2H747	3784	44569	57	9.3	11.3	7.1	7.4	11.6
Mycogen	TMF2R737	3625	38777	50	10.4	12.6	8.9	9.1	11.0
Pioneer	P1319HR	3637	39472	57	10.1	12.9	7.6	8.6	11.2
T. A. Seeds	TA744-22DP	3788	34241	54	.	.	.	6.9	9.4
T. A. Seeds	TA765-18	3680	42871	53	.	.	.	8.5	11.7
T. A. Seeds	TA780-22DP	3774	40417	61	10.0	13.0	8.9	7.7	10.5
T. A. Seeds	X19918	3809	37337	60	.	.	.	.	9.7
Average		3698	38262	55	9.7	12.0	8.2	8.0	10.5

**Summary of Evaluations of Corn Hybrids for Silage:
Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2014
(Continued)**

Company or Brand Name	Hybrid Name	Quality Factors ¹			Grain Portion %	Dry Matter Yield				
		Milk Production ²		Statewide Average		Dry Matter Yield				
		Ibs/ton DM	Ibs/acre			Blairsville	Calhoun	Griffin	Tifton	
Mid-Season										
AgraTech	1023VIP	3369	44146	44	.	.	.	.	12.8
AgraTech	76GVIP	3912	41852	63	.	10.5	.	.	10.7	
AgraTech	84GVIP	3867	38433	62	9.8	11.7	8.7	9.0	9.9	
AgraTech	868VT3P	3635	39390	50	.	.	.	.	10.8
AgraTech	999VIP	3568	42278	48	11.0	13.1	9.6	8.9	12.3	
Croplan Genetics	7927 VT3P	3840	39554	55	.	12.7	9.2	.	10.8	
Croplan Genetics	8621 VT2 Pro	3686	37755	55	.	11.9	10.0	.	10.9	
Croplan Genetics	8750 RH	3841	43187	55	.	13.2	10.8	.	11.7	
DeKalb	DKC66-40	3619	38057	52	10.6	12.4	10.9	8.4	10.7	
Dyna-Gro	D57VP75	3580	36147	55	.	.	11.9	7.9	10.5	
Dyna-Gro	D59HR50	3520	43108	49	11.2	10.9	12.4	9.5	12.0	
MC	EXP 674L	3752	40127	55	.	.	.	.	10.7
MC	EXP 683M	3751	39531	53	11.3	12.5	13.0	9.1	10.8	
MC	EXP 686N	3778	37029	56	.	.	.	.	9.9
MC	MCT-6753	3756	34578	57	.	.	.	8.0	9.1	
MC	MCT-6894	3962	34466	61	9.0	10.9	8.6	7.8	8.7	
Mycogen	F2F 817	3943	40162	60	7.9	7.4	6.7	7.8	9.8	
Mycogen	TMF2H919	3683	42724	53	11.1	11.0	12.6	9.7	11.3	
Mycogen	TMF2L825	3699	39556	49	9.9	10.5	9.1	8.9	11.0	
Pioneer	P1637VYHR	3736	40357	59	10.1	13.5	7.1	9.0	11.0	
Pioneer	P1690YHR	3716	40521	56	10.8	12.1	10.6	9.2	11.1	
Pioneer	P1739YHR	3653	41275	50	.	.	.	.	11.1
Pioneer	P1794VYHR	3712	45867	55	.	.	.	.	12.2
Sun Prairie	SPX4095RR	3712	37483	53	.	.	.	.	10.2
Syngenta NK	N83D-3000GT	3731	37491	58	9.1	9.7	8.3	8.8	9.9	
T. A. Seeds	TA774-13VP	3790	37901	61	.	.	.	8.6	10.6	
T. A. Seeds	TA784-13VP	3650	37951	57	10.1	13.1	9.4	7.5	10.5	
T. A. Seeds	TA790-18	3760	39494	56	.	.	.	8.9	10.7	
T. A. Seeds	X19919	3602	38572	56	.	.	.	.	10.4
T. A. Seeds	X19921	3723	42081	49	.	.	.	.	10.9
T. A. Seeds	X19922	3643	41881	56	.	.	.	.	11.4
Average		3716	39773	55	10.2	11.6	9.9	8.6	10.8	
<i>Overall test statistics:</i>										
Average		3710 ³	39280 ⁴	55	10.0 ⁵	11.7	9.3	8.4	10.7	
LSD at 10% Level		158	4741	6	0.7	1.7	1.8	0.9	0.8	
Std. Err. of Entry Mean		66	1997	2	0.3	0.7	0.8	0.4	0.4	

Summary of Evaluations of Corn Hybrids for Silage: Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2014 (Continued)

1. Quality factors taken from the replicated silage trial at Tifton.
2. This variable is calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
3. CV = 2.5%, and df for EMS = 46.
4. CV = 7.2%, and df for EMS = 46.
5. CV = 12.0%, and df for EMS = 252.

Bolding indicates entries performing equally to highest performing entry within a column based on Fisher's protected LSD (P = 0.10).

Summary of Quality Factors of Corn Hybrids for Silage, Tifton, Georgia, 2014

Company or Brand Name	Hybrid Name	Quality Factors ¹									Dry Matter Yield		
		Milk Production ²					Grain				Grain Portion	% Tifton	
		lbs/ton		DM	lbs/acre	Protein	NDF	ADF	TDN	NDF48 ³	Ash		
Short-Season													
Croplan Genetics	7087 VT3P	3724	35591	8.6	27.2	15.7	76.5	77.5	4.3	55	55	9.7	
DeKalb	DKC61-79	3687	31995	8.4	29.4	16.1	76.3	75.7	3.7	57	57	9.1	
DeKalb	DKC64-69	3641	38935	8.1	33.4	17.8	75.1	73.2	3.1	53	53	10.1	
Dyna-Gro	D55GT73	3654	42541	8.1	30.7	17.2	75.5	73.3	3.3	56	56	11.7	
Dyna-Gro	D55QC73	3705	40179	8.4	32.5	18.0	75.0	75.6	3.8	52	52	11.4	
MC	EXP 600M	3798	34981	9.5	29.1	15.3	76.8	80.0	3.9	55	55	9.2	
MC	MCT-630GT	3582	35232	8.8	34.3	18.8	74.5	73.5	4.0	55	55	10.3	
MC	MCT-6583	3574	36796	8.3	33.2	18.6	74.6	72.1	3.7	56	56	10.3	
Mycogen	TMF2H747	3784	44569	8.3	29.1	16.4	76.0	78.6	3.7	57	57	11.6	
Mycogen	TMF2R737	3625	38777	8.5	27.9	16.0	76.3	74.0	4.1	50	50	11.0	
Pioneer	P1319HR	3637	39472	8.8	30.9	16.3	76.1	74.6	4.0	57	57	11.2	
T. A. Seeds	TA744-22DP	3788	34241	8.7	28.9	15.8	76.4	80.1	4.1	54	54	9.4	
T. A. Seeds	TA765-18	3680	42871	8.5	34.7	19.3	74.1	75.8	4.0	53	53	11.7	
T. A. Seeds	TA780-22DP	3774	40417	8.0	30.2	16.3	76.1	79.6	3.7	61	61	10.5	
T. A. Seeds	X19918	3809	37337	8.8	30.6	16.5	75.9	80.5	3.9	60	60	9.7	
<i>Average</i>		3698	38262	8.5	30.8	16.9	75.7	76.3	3.8	55	55	10.5	

Summary of Quality Factors of Corn Hybrids for Silage, Tifton, Georgia, 2014 (Continued)

Company or Brand Name	Hybrid Name	Quality Factors ¹									Dry Matter Yield		
		Milk Production ²					Grain						
		lbs/ton		DM	lbs/acre	Protein	NDF	ADF	TDN	NDF48 ³	Ash	Portion	Tifton
Mid-Season													
AgraTech	1023VIP	3369	44146	9.4	38.6	22.0	72.4	68.4	4.7	44	12.8		
AgraTech	76GVIP	3912	41852	8.7	26.9	14.7	77.1	84.9	3.7	63	10.7		
AgraTech	84GVIP	3867	38433	8.9	27.4	15.2	76.8	82.0	3.7	62	9.9		
AgraTech	868VT3P	3635	39390	8.4	33.4	19.2	74.2	74.8	4.4	50	10.8		
AgraTech	999VIP	3568	42278	9.1	32.5	17.3	75.5	72.6	3.9	48	12.3		
Croplan Genetics	7927 VT3P	3840	39554	8.5	30.2	16.0	76.3	81.1	3.7	55	10.8		
Croplan Genetics	8621 VT2 Pro	3686	37755	8.6	31.0	17.1	75.6	77.1	4.2	55	10.9		
Croplan Genetics	8750 RH	3841	43187	8.0	31.7	18.9	74.4	81.6	4.2	55	11.7		
DeKalb	DKC66-40	3619	38057	8.5	32.1	17.5	75.3	74.2	4.0	52	10.7		
Dyna-Gro	D57VP75	3580	36147	8.6	30.9	17.5	75.3	74.5	4.6	55	10.5		
Dyna-Gro	D59HR50	3520	43108	8.6	39.2	23.3	71.5	72.7	5.0	49	12.0		
MC	EXP 674L	3752	40127	9.4	29.2	15.8	76.4	78.7	4.1	55	10.7		
MC	EXP 683M	3751	39531	8.3	29.4	16.5	76.0	78.4	4.0	53	10.8		
MC	EXP 686N	3778	37029	8.5	29.8	16.9	75.7	79.1	3.9	56	9.9		
MC	MCT-6753	3756	34578	8.8	27.3	15.5	76.6	78.5	4.2	57	9.1		
MC	MCT-6894	3962	34466	8.6	28.5	15.8	76.4	86.2	4.0	61	8.7		
Mycogen	F2F 817	3943	40162	9.4	28.8	17.0	71.5	85.7	4.5	60	9.8		
Mycogen	TMF2H919	3683	42724	9.8	35.7	18.7	74.5	73.2	3.9	53	11.3		
Mycogen	TMF2L825	3699	39556	7.9	31.4	18.1	74.9	76.8	4.0	49	11.0		
Pioneer	P1637VYHR	3736	40357	8.3	28.5	15.8	76.4	77.6	3.6	59	11.0		
Pioneer	P1690YHR	3716	40521	8.4	29.5	16.1	76.2	78.2	3.9	56	11.1		
Pioneer	P1739YHR	3653	41275	8.0	30.1	17.8	75.1	75.4	4.2	50	11.1		
Pioneer	P1794VYHR	3712	45867	8.5	31.0	17.5	75.3	78.1	4.3	55	12.2		
Sun Prairie	SPX4095RR	3712	37483	8.5	31.0	17.7	75.2	77.2	4.2	53	10.2		
Syngenta NK	N83D-3000GT	3731	37491	9.0	32.7	17.5	75.3	77.0	3.8	58	9.9		
T. A. Seeds	TA774-13VP	3790	37901	8.1	30.5	18.0	75.0	80.8	4.5	61	10.6		
T. A. Seeds	TA784-13VP	3650	37951	8.6	33.0	18.9	74.4	75.5	4.3	57	10.5		
T. A. Seeds	TA790-18	3760	39494	8.5	33.8	17.8	75.1	78.2	3.5	56	10.7		
T. A. Seeds	X19919	3602	38572	8.8	33.5	19.2	74.2	74.4	4.4	56	10.4		
T. A. Seeds	X19921	3723	42081	9.0	30.6	18.2	74.9	78.6	4.8	49	10.9		
T. A. Seeds	X19922	3643	41881	8.9	35.0	20.6	73.2	77.3	5.3	56	11.4		
<i>Average</i>		3716	39773	8.7	31.4	17.7	75.1	77.7	4.2	55	10.8		
<i>Overall tests statistics:</i>													
<i>Average</i>		3710⁴	39280⁵	8.6	31.2	17.4	75.3	77.2	4.1	55	10.7		
<i>LSD at 10% Level</i>		158	4741	0.4	5.1	N.S. ⁶	N.S.	0.6	5.0	6	0.8		
<i>Std. Err. of Entry Mean</i>		66	1497	0.2	2.2	1.5	1.2	0.3	2.1	2	0.4		

1. Quality factors taken from the replicated silage trial at Tifton.

2. This variable is calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.

3. NDF48: Percent dry matter disappearance/48 hours.

4. CV = 2.5%, and df for EMS = 46.

5. CV = 7.2%, and df for EMS = 46.

6. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries performing equally to highest performing entry within a column based on Fisher's protected LSD ($P = 0.10$).
AP-101-6

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2014, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				tons/acre
<u>Short-Season</u>							
T. A. Seeds	TA765-18	11.7	21.0	56.1	53	32017	.
Dyna-Gro	D55GT73	11.7	20.5	57.2	56	30492	12.2
Mycogen	TMF2H747	11.6	19.1	60.9	57	32017	.
Dyna-Gro	D55QC73	11.5	21.5	53.5	52	32888	.
Pioneer	P1319HR	11.2	18.7	59.9	57	32234	11.3
Mycogen	TMF2R737	11.0	19.9	55.8	50	33977	.
T. A. Seeds	TA780-22DP	10.5	18.8	57.1	61	30710	.
MC	MCT-630GT	10.3	17.3	59.8	55	32712	.
MC	MCT-6583	10.3	17.3	60.1	56	31364	10.3
DeKalb	DKC64-69	10.1	17.9	57.1	53	30492	10.5
T. A. Seeds	X19918	9.7	16.1	60.6	60	30492	.
Croplan Genetics	7087 VT3P	9.7	15.1	64.5	55	31363	.
T. A. Seeds	TA744-22DP	9.4	14.6	64.8	54	31799	.
MC	EXP 600M	9.3	15.4	60.6	55	29403	.
DeKalb	DKC61-79	9.1	13.4	68.0	57	32452	.
Average		10.5 ¹	17.8 ²	59.7	55	31627	11.1
LSD at 10% Level		0.8	2.1	4.8	4	1938	0.6
Std. Err. of Entry Mean		0.4	0.9	2.0	2	815	0.2

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2014, Irrigated
(Continued)

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry	Green				
Mid-Season							
AgraTech	1023VIP	12.8	26.7	48.2	44	32016	.
AgraTech	999VIP	12.4	24.4	51.1	48	32235	.
Pioneer	P1794VYHR	12.2	20.3	60.3	55	32017	.
Dyna-Gro	D59HR50	12.0	22.9	53.1	49	31581	11.5
Croplan Genetics	8750 RH	11.7	19.8	59.2	55	33324	.
T. A. Seeds	X19922	11.5	16.5	69.6	56	33759	.
Mycogen	TMF2H919	11.3	24.8	45.8	53	31799	.
Pioneer	P1739YHR	11.2	17.2	65.0	50	33759	.
Pioneer	P1690YHR	11.1	16.7	67.2	56	32234	12.0
Mycogen	TMF2L825	11.1	18.0	61.3	49	32888	.
Pioneer	P1637VYHR	11.0	15.5	70.6	59	33977	.
Croplan Genetics	8621 VT2 Pro	10.9	18.4	59.4	55	32452	11.2
T. A. Seeds	X19921	10.9	16.6	66.1	49	32452	.
Croplan Genetics	7927 VT3P	10.8	17.4	62.0	55	33106	.
MC	EXP 683M	10.8	20.3	53.3	53	31363	.
AgraTech	868VT3P	10.8	16.4	65.6	50	31581	.
DeKalb	DKC66-40	10.7	17.8	60.1	52	33759	.
AgraTech	76GVIP	10.7	16.7	64.0	63	33324	.
T. A. Seeds	TA790-18	10.7	17.9	59.6	56	33106	.
MC	EXP 674L	10.7	17.0	63.2	55	33106	.
T. A. Seeds	TA774-13VP	10.6	16.5	64.1	61	33542	.
T. A. Seeds	TA784-13VP	10.5	16.9	62.2	57	30928	11.4
Dyna-Gro	D57VP75	10.5	16.9	62.4	55	31363	9.9
T. A. Seeds	X19919	10.4	17.0	61.8	56	33541	.
Sun Prairie	SPX4095RR	10.2	15.5	66.2	53	31146	.
ALA-FLO	9500	10.2	16.4	62.2	56	31146	.
AgraTech	84GVIP	9.9	15.4	64.4	62	32888	.
Syngenta NK	N83D-3000GT	9.9	17.1	58.0	58	30710	.
MC	EXP 686N	9.9	16.9	58.7	56	29839	.
Mycogen	F2F 817	9.8	17.6	55.9	60	32888	.
MC	MCT-6753	9.1	14.7	62.3	57	28314	.
MC	MCT-6894	8.7	12.5	69.8	61	29621	10.0
<i>Average</i>		10.8 ³	18.0 ⁴	61.0	55	32180	11.0
<i>LSD at 10% Level</i>		0.8	1.8	3.9	7	2089	N.S. ⁵
<i>Std. Err. of Entry Mean</i>		0.4	0.8	1.6	3	889	0.4

Tifton, Georgia: Evaluation of Corn Hybrids for Silage, 2014, Irrigated (Continued)

1. CV = 6.8%, and df for EMS = 42.
2. CV = 10.1%, and df for EMS = 42.
3. CV = 6.6%, and df for EMS = 93.
4. CV = 8.5%, and df for EMS = 93.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	April 3, 2014.
Harvested:	July 29, 2014.
Seeding Rate:	34,000 seeds per acre in 30-inch rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = High, K = Medium, and pH = 6.1.
Fertilization:	123 lb N, 180 lb P ₂ O ₅ , and 300 lb K ₂ O/acre as preplant; 270 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Disked, subsoiled and bedded, rototilled; Atrazine, Prowl, Accent, and Basagran used for weed control; Telone II used for nematode control; irrigated 11 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Griffin, Georgia:
Evaluation of Corn Hybrids for Silage, 2014, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg				
		Dry	Green				Dry Forage Yield				
tons/acre											
Short-Season											
Mycogen	TMF2R737	9.1	17.0	53.7	47	32670	.				
Pioneer	P1319HR	8.6	12.5	69.5	48	33880	9.5				
Dyna-Gro	D55GT73	8.6	14.7	58.4	47	32186	10.0				
T. A. Seeds	TA765-18	8.6	13.3	64.5	47	31944	.				
DeKalb	DKC64-69	8.5	14.8	57.4	49	32912	10.0				
Dyna-Gro	D55QC73	8.4	13.7	61.1	47	32912	.				
MC	EXP 600M	8.3	14.0	59.3	55	30492	.				
MC	MCT-6583	7.8	10.9	72.7	48	33154	.				
T. A. Seeds	TA780-22DP	7.8	11.8	66.5	50	30250	.				
Mycogen	TMF2H747	7.4	14.6	50.4	44	30734	.				
MC	MCT-630GT	7.3	11.9	61.1	46	28072	.				
T. A. Seeds	TA744-22DP	6.9	11.5	60.1	46	30250	.				
DeKalb	DKC61-79	6.6	8.2	80.6	48	33638	.				
Average		8.0 ¹	13.0 ²	62.7	48	31776	9.8				
LSD at 10% Level		1.0	1.1	5.3	3	2248	N.S. ³				
Std. Err. of Entry Mean		0.4	0.5	2.2	2	941	0.4				
Mid-Season											
Mycogen	TMF2H919	9.7	21.3	45.5	44	31702	.				
Dyna-Gro	D59HR50	9.5	18.9	50.1	45	31460	10.0				
Pioneer	P1690YHR	9.2	13.7	68.0	46	33880	.				
MC	EXP 683M	9.1	15.3	59.7	48	32428	.				
Pioneer	P1637VYHR	9.0	12.8	71.0	48	33396	.				
AgraTech	84GVIP	9.0	16.3	56.1	54	32428	.				
AgraTech	999VIP	8.9	19.3	46.3	40	31218	.				
Mycogen	TMF2L825	8.9	12.9	69.5	38	32670	.				
T. A. Seeds	TA790-18	8.9	13.6	65.8	49	33396	.				
Syngenta NK	N83D-3000GT	8.8	15.0	59.5	50	32186	.				
T. A. Seeds	TA774-13VP	8.6	14.4	60.2	49	33880	.				
DeKalb	DKC66-40	8.4	12.9	65.4	46	30976	.				
MC	MCT-6753	8.0	11.4	70.1	50	27588	.				
Dyna-Gro	D57VP75	7.9	11.9	67.5	45	32186	10.5				
MC	MCT-6894	7.9	11.2	69.8	55	30734	.				
Mycogen	F2F 817	7.9	12.0	67.1	40	30492	.				
T. A. Seeds	TA784-13VP	7.6	11.2	67.1	45	29524	9.5				
Average		8.7 ⁴	14.3 ⁵	62.3	47	31773	10.0				
LSD at 10% Level		0.9	1.6	6.4	2	2384	N.S.				
Std. Err. of Entry Mean		0.4	0.7	2.7	1	1005	0.5				

Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2014, Irrigated (Continued)

1. CV = 10.1%, and df for EMS = 36.
2. CV = 7.3%, and df for EMS = 36.
3. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.
4. CV = 8.4%, and df for EMS = 48.
5. CV = 9.5%, and df for EMS = 48.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	April 13, 2014.
Harvested:	August 11, 2014.
Seeding Rate:	34,000 seeds per acre in 30-inch rows.
Soil Type:	Pacolet sandy loam.
Soil Test:	P = Medium, K = High, and pH = 6.0.
Fertilization:	75 lb N, 150 lb P ₂ O ₅ , and 225 lb K ₂ O/acre as preplant; 200 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Subsoiled, disked, and rototilled; Lasso, Atrazine, Callisto, and Option used for weed control; irrigated 13 inches.

Test conducted by H. Jordan and G. Ware.

**Calhoun, Georgia:
Evaluation of Corn Hybrids for Silage, 2014, Irrigated**

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				Dry Forage Yield
Short-Season							
MC	MCT-630GT	10.3	17.2	59.7	48	34557	.
Dyna-Gro	D55GT73	9.8	17.1	57.2	50	32488	8.2
DeKalb	DKC64-69	9.1	15.6	57.7	52	33936	9.3
T. A. Seeds	TA780-22DP	8.9	13.4	66.4	51	33316	.
Mycogen	TMF2R737	8.9	17.3	51.1	47	32488	.
Dyna-Gro	D55QC73	7.9	15.8	49.8	50	35178	.
Croplan Genetics	7087 VT3P	7.8	12.3	63.6	49	30832	.
MC	EXP 600M	7.7	12.8	60.4	54	27729	.
Pioneer	P1319HR	7.6	14.3	53.6	51	35592	8.6
Mycogen	TMF2H747	7.1	14.0	50.4	46	36005	.
DeKalb	DKC61-79	5.5	10.7	51.1	51	31867	.
Average		8.2 ¹	14.6 ²	56.5	50	33090	8.7
LSD at 10% Level		1.6	2.5	6.3	4	4132	N.S. ³
Std. Err. of Entry Mean		0.7	1.0	2.6	2	1722	0.6
Mid-Season							
MC	EXP 683M	13.0	16.4	79.0	54	31867	.
Mycogen	TMF2H919	12.6	26.5	47.2	50	30625	.
Dyna-Gro	D59HR50	12.4	21.7	57.7	48	32074	11.8
Dyna-Gro	D57VP75	11.9	17.3	70.6	49	31660	10.2
DeKalb	DKC66-40	10.9	16.3	69.4	53	30419	.
Croplan Genetics	8750 RH	10.8	17.1	64.8	52	31660	.
Pioneer	P1690YHR	10.6	15.6	69.5	51	31039	.
Croplan Genetics	8621 VT2 Pro	10.0	20.7	48.2	52	31867	10.5
AgraTech	999VIP	9.6	16.9	59.2	51	29384	.
T. A. Seeds	TA784-13VP	9.5	17.2	54.8	47	31660	11.1
Croplan Genetics	7927 VT3P	9.2	13.2	71.1	51	31039	.
Mycogen	TMF2L825	9.1	13.8	67.0	47	32281	.
AgraTech	84GVIP	8.7	14.1	61.6	57	31039	.
MC	MCT-6894	8.6	13.5	65.1	57	31039	.
Syngenta NK	N83D-3000GT	8.3	12.9	65.5	55	28556	.
Pioneer	P1637VYHR	7.1	14.0	50.3	54	29177	.
Mycogen	F2F 817	6.7	13.0	52.2	50	31040	.
Average		9.9 ⁴	16.5 ⁵	62.0	52	30966	10.9
LSD at 10% Level		2.0	3.4	13.9	6	N.S.	N.S.
Std. Err. of Entry Mean		0.8	1.4	5.9	2	1036	0.6

Calhoun, Georgia:
Evaluation of Corn Hybrids for Silage, 2014, Irrigated
(Continued)

1. CV = 16.4%, and df for EMS = 30.
2. CV = 14.2%, and df for EMS = 30.
3. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.
3. CV = 17.0%, and df for EMS = 48.
4. CV = 17.6%, and df for EMS = 48.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	April 24, 2014.
Harvested:	August 22, 2014.
Seeding Rate:	Short-Season: 36,500 seeds per acre in 30-inch rows. Mid-Season: 33,000 seeds per acre in 30-inch rows.
Soil Type:	Rome gravelly clay loam.
Soil Test:	P = Very High, K = High, and pH = 5.9.
Fertilization:	135 lb N, 70 lb P ₂ O ₅ , and 230 lb K ₂ O/acre as preplant; 200 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Moldboard plowed, disked, and rototilled; Me-too-lachlor, Callisto, Accent, and Atrazine used for weed control with one cultivation; irrigated 10 inches.

Test conducted by H. Jordan, G. Ware, and J. Stubbs.

Blairsville, Georgia:
Evaluation of Corn Hybrids for Silage, 2014, Nonirrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg				
		Dry	Green				Dry Forage Yield				
tons/acre											
Short-Season											
Croplan Genetics	7087 VT3P	13.3	24.6	54.6	53	35332	.				
T. A. Seeds	TA780-22DP	13.0	23.3	56.0	56	35090	11.4				
Pioneer	P1319HR	12.9	24.0	53.7	56	33880	.				
MC	MCT-630GT	12.7	23.9	53.6	56	31460	.				
Mycogen	TMF2R737	12.6	27.8	45.2	55	35332	.				
Mycogen	TMF2H747	11.3	22.1	51.2	52	34122	.				
DeKalb	DKC61-79	11.1	18.4	60.7	59	32428	.				
MC	EXP 600M	11.1	24.3	46.2	56	30492	.				
Dyna-Gro	D55GT73	11.0	25.1	44.6	54	32912	.				
DeKalb	DKC64-69	10.5	23.3	45.0	55	35090	.				
Average		11.9 ¹	23.7 ²	51.1	55	33614	11.4				
LSD at 10% Level		1.9	2.8	5.5	3	2189	.				
Std. Err. of Entry Mean		0.8	1.2	2.3	1	923	.				
Mid-Season											
Pioneer	P1637VYHR	13.5	24.7	54.7	53	35090	.				
Croplan Genetics	8750 RH	13.2	28.3	46.4	52	34606	.				
T. A. Seeds	TA784-13VP	13.1	24.3	54.6	55	33396	11.8				
AgraTech	999VIP	13.1	31.0	42.0	52	33154	.				
Croplan Genetics	7927 VT3P	12.7	24.7	51.0	55	34606	.				
MC	EXP 683M	12.5	27.6	45.5	55	33638	.				
DeKalb	DKC66-40	12.4	23.9	51.7	55	35574	.				
Pioneer	P1690YHR	12.1	22.0	55.4	53	34364	.				
Croplan Genetics	8621 VT2 Pro	12.0	28.0	42.5	56	34848	11.5				
AgraTech	84GVIP	11.7	28.8	40.8	59	34606	.				
Mycogen	TMF2H919	11.0	32.0	34.2	50	34606	.				
MC	MCT-6894	10.9	20.9	52.1	58	32670	.				
Dyna-Gro	D59HR50	10.9	26.5	41.0	54	30976	10.4				
AgraTech	76GVIP	10.6	27.3	38.5	58	34122	.				
Mycogen	TMF2L825	10.5	24.0	43.7	47	35090	.				
Syngenta NK	N83D-3000GT	9.7	22.2	43.6	54	31218	.				
Mycogen	F2F 817	7.4	13.0	58.0	46	32428	.				
Average		11.6 ³	25.2 ⁴	46.8	54	33823	11.2				
LSD at 10% Level		1.5	3.0	6.7	3	2722	N.S. ⁵				
Std. Err. of Entry Mean		0.6	1.2	2.8	1	1130	1.1				

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2014, Nonirrigated (Continued)

1. CV = 13.8%, and df for EMS = 48.
2. CV = 9.4%, and df for EMS = 48.
3. CV = 10.3%, and df for EMS = 27.
4. CV = 10.5%, and df for EMS = 27.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	May 2, 2014.
Harvested:	September 18, 2014.
Seeding Rate:	36,000 seeds per acre in 30-inch rows.
Soil Type:	Suches loam.
Soil Test:	P = Very High, K = High, and pH = 6.1.
Fertilization:	212 lb N, 200 lb P ₂ O ₅ , and 122 lb K ₂ O/acre as preplant; 184 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Moldboard plowed and disked; Atrazine, Dual Magnum, and Simazine used for weed control.

Test conducted by H. Jordan, G. Ware, R. Covington, and L. Lee.

King's Multi-Location Silage Trials



2014 Masters Choice Replicated Silage Trial

Mt Joy, PA

Trial: 110 to 118 Days
Planted: 5/10/14 Harvested: 9/1/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
EXP-K	110	32000	61.1	27.9	8.9	a	43.0	97.7	46.7
EXP-M	117	31700	65.9	26.4	8.4	ab	46.0	112.7	66.7
MC6470	114	32000	66.1	24.1	7.7	bc	38.0	83.7	70.0
MCT6361	113	31400	65.6	24.0	7.7	bc	46.7	102.3	46.7
MC6750	117	31200	63.4	23.9	7.6	bc	50.3	99.7	33.3
EXP-L	112	29800	65.0	23.8	7.6	bc	46.7	111.3	66.7
EXP-N	118	31100	65.5	23.5	7.5	bc	46.7	106.7	70.0
MC6890	118	30000	58.3	23.5	7.5	bc	48.3	104.0	43.3
MC6580	115	30800	66.5	22.6	7.2	c	51.7	98.0	46.7
EXP-O	118	30000	67.4	22.0	7.0	c	47.7	109.7	60.0
MC6150	111	31200	65.0	21.6	6.9	c	43.3	97.0	30.0
Averages	31018	64.5	23.9	7.7			46.2	102.1	52.7

LSD(.05) 3.2

cv = 7.9

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% NDF	% Lignin (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton	
EXP-K	110	32000	61.1	27.9	8.9	8.2	24.2	38.9	2.95	56.9	0.9	34.3	69.3	0.77	4.83	17.9	3164
EXP-M	117	31700	65.9	26.4	8.4	8.5	22.1	35.5	2.60	58.3	1.2	36.8	72.5	0.79	5.12	19.5	3566
MC6470	114	32000	66.1	24.1	7.7	7.8	21.2	34.2	2.40	59.7	1.2	38.8	72.5	0.80	5.01	19.5	3678
MCT6361	113	31400	65.6	24.0	7.7	22.1	34.9	2.63	57.7	1.3	37.6	70.6	0.79	4.91	18.5	3549	
MC6750	117	31200	63.4	23.9	7.6	8.6	24.6	39.8	2.97	56.9	1.0	32.6	70.1	0.76	5.01	18.2	3254
EXP-L	112	29800	65.0	23.8	7.6	7.9	22.2	35.6	2.72	56.7	1.4	37.8	72.1	0.79	4.90	19.3	3485
EXP-N	118	31100	65.5	23.5	7.5	7.5	21.9	35.4	2.36	60.5	1.1	38.5	71.8	0.79	5.14	19.1	3612
MC6890	118	30000	58.3	23.5	7.5	8.2	21.4	34.3	2.44	58.2	1.2	39.0	67.3	0.79	4.93	16.9	3127
MC6580	115	30800	66.5	22.6	7.2	7.8	23.9	38.4	2.69	58.0	1.1	34.2	72.4	0.77	4.95	19.4	3461
EXP-O	118	30000	67.4	22.0	7.0	7.5	21.7	34.8	2.47	57.7	1.3	39.1	73.7	0.79	4.93	20.2	3679
MC6150	111	31200	65.0	21.6	6.9	7.8	22.9	36.7	2.67	56.2	1.3	37.0	72.3	0.78	4.95	19.4	3437
Averages	115	31018	64.5	23.9	7.7	8.0	22.6	36.2	2.63	57.9	1.2	36.9	71.3	0.78	4.97	18.9	3456

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd ** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68% Tons	DM %	CP %	ADF %	aNDFom %	Lignin (30 hr) %	NDFd %	Sugar %	Starch %	7 Hr 4mm Starchd %	NEL %	NDF Kd **	Starch Kd	Milk per Ton
EXP-O	118	30000	67.4	22.0	7.0	7.5	21.7	34.8	2.47	57.7	1.3	39.1	73.7	0.79	4.93	20.2	3679
MC6470	114	32000	66.1	24.1	7.7	7.8	21.2	34.2	2.40	59.7	1.2	38.8	72.5	0.80	5.01	19.5	3678
EXP-N	118	31100	65.5	23.5	7.5	7.5	21.9	35.4	2.36	60.5	1.1	38.5	71.8	0.79	5.14	19.1	3612
EXP-M	117	31700	65.9	26.4	8.4	8.5	22.1	35.5	2.60	58.3	1.2	36.8	72.5	0.79	5.12	19.5	3566
MCT6361	113	31400	65.6	24.0	7.7	7.7	22.1	34.9	2.63	57.7	1.3	37.6	70.6	0.79	4.91	18.5	3549
EXP-L	112	29800	65.0	23.8	7.6	7.9	22.2	35.6	2.72	56.7	1.4	37.8	72.1	0.79	4.90	19.3	3485
MC6580	115	30800	66.5	22.6	7.2	7.8	23.9	38.4	2.69	58.0	1.1	34.2	72.4	0.77	4.95	19.4	3461
MC6150	111	31200	65.0	21.6	6.9	7.8	22.9	36.7	2.67	56.2	1.3	37.0	72.3	0.78	4.95	19.4	3437
MC6750	117	31200	63.4	23.9	7.6	8.6	24.6	39.8	2.97	56.9	1.0	32.6	70.1	0.76	5.01	18.2	3254
EXP-K	110	32000	61.1	27.9	8.9	8.2	24.2	38.9	2.95	56.9	0.9	34.3	69.3	0.77	4.83	17.9	3164
MC6890	118	30000	58.3	23.5	7.5	8.2	21.4	34.3	2.44	58.2	1.2	39.0	67.3	0.79	4.93	16.9	3127
Averages	115	31018	64.5	23.9	7.7	8.0	22.6	36.2	2.63	57.9	1.2	36.9	71.3	0.78	4.97	18.9	3456



2014 Masters Choice Replicated Silage Trial
Mt Joy, PA



Trial: 102 to 109 Days
Planted: 5/10/14 Harvested: 8/28/14

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
MC5660	106	29000	59.3	27.5	8.8	a	48.0	106.0	56.7
EXP-H	103	30900	56.9	27.0	8.6	a	43.3	91.7	66.7
MC535	107	31100	61.5	26.4	8.4	a	43.7	98.0	73.3
MC5250	102	31100	60.6	26.2	8.4	a	47.0	98.0	70.0
MCT5451	104	31100	61.5	25.6	8.2	a	44.0	98.7	70.0
MC5370	103	30300	60.7	25.1	8.0	a	47.0	100.0	53.3
EXP-J	109	30900	60.5	25.0	8.0	a	45.3	96.0	66.7
EXP-I	105	30600	61.3	24.9	8.0	a	44.7	96.0	66.7
Averages		30625	60.3	26.0	8.3		45.4	98.1	65.4
LSD(.05)							4.4		
							cv = 9.7		

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% NDF	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC5660	106	29000	59.3	27.5	8.8	7.2	20.2	31.6	2.20	56.6	1.4	43.2	70.7	0.80	4.77	18.6
EXP-H	103	30900	56.9	27.0	8.6	7.7	24.0	38.7	2.75	60.4	1.3	33.8	67.3	0.78	5.00	16.9
MC535	107	31100	61.5	26.4	8.4	7.0	21.8	34.1	2.58	56.0	1.2	40.7	69.5	0.79	4.73	17.9
MC5250	102	31100	60.6	26.2	8.4	7.1	22.3	35.0	2.54	57.3	1.2	38.6	70.1	0.79	4.70	18.3
MCT5451	104	31100	61.5	25.6	8.2	7.4	20.2	32.1	2.14	57.6	1.6	41.4	73.8	0.80	4.78	20.3
MC5370	103	30300	60.7	25.1	8.0	6.9	19.9	31.1	2.26	56.2	1.5	43.6	71.7	0.81	4.81	19.1
EXP-J	109	30900	60.5	25.0	8.0	8.2	22.0	35.5	2.85	54.4	1.0	38.2	66.6	0.79	4.43	16.5
EXP-I	105	30600	61.3	24.9	8.0	8.1	20.7	34.5	2.39	60.7	1.2	38.1	69.5	0.80	5.13	17.9
Averages	105	30625	60.3	26.0	8.3	7.5	21.4	34.1	2.46	57.4	1.3	39.7	69.9	0.80	4.79	18.2
																3237

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
EXP-I	105	30600	61.3	24.9	8.0	8.1	20.7	34.5	2.39	60.7	1.2	38.1	69.5	0.80	5.13	17.9	3432
MCT5451	104	31100	61.5	25.6	8.2	7.4	20.2	32.1	2.14	57.6	1.6	41.4	73.8	0.80	4.78	20.3	3368
MC5370	103	30300	60.7	25.1	8.0	6.9	19.9	31.1	2.26	56.2	1.5	43.6	71.7	0.81	4.81	19.1	3333
MC535	107	31100	61.5	26.4	8.4	7.0	21.8	34.1	2.58	56.0	1.2	40.7	69.5	0.79	4.73	17.9	3300
MC5250	102	31100	60.6	26.2	8.4	7.1	22.3	35.0	2.54	57.3	1.2	38.6	70.1	0.79	4.70	18.3	3237
MC5660	106	29000	59.3	27.5	8.8	7.2	20.2	31.6	2.20	56.6	1.4	43.2	70.7	0.80	4.77	18.6	3220
EXP-J	109	30900	60.5	25.0	8.0	8.2	22.0	35.5	2.85	54.4	1.0	38.2	66.6	0.79	4.43	16.5	3199
EXP-H	103	30900	56.9	27.0	8.6	7.7	24.0	38.7	2.75	60.4	1.3	33.8	67.3	0.78	5.00	16.9	3076
Averages	105	30625	60.3	26.0	8.3	7.5	21.4	34.1	2.46	57.4	1.3	39.7	69.9	0.80	4.79	18.2	3271



2014 Masters Choice Replicated Silage Trial

Cochranville, PA

Trial: 102 to 109 Days
Planted: 5/12/14 Harvested: 9/15/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
MC535	107	31100	63.8	28.0	9.0	a	41.3	97.7	33.3
MC5660	106	30000	62.1	27.9	8.9	a	46.3	102.7	16.7
MC5250	102	31100	62.2	27.2	8.7	a	47.3	105.3	13.3
MC5370	103	30500	61.1	26.8	8.6	ab	42.3	95.3	23.3
EXP-J	109	30500	63.8	25.8	8.3	abc	41.7	98.0	23.3
EXP-I	105	31100	61.6	25.7	8.2	bc	38.3	90.7	30.0
MCT5451	104	30900	63.8	24.5	7.8	bc	40.3	100.7	10.0
EXP-H	103	30800	60.6	23.1	7.4	c	42.0	96.0	16.7
Averages		30750	62.4	26.1	8.4		42.4	98.3	20.8
LSD(.05)							2.8		
cv =							6.2		

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% NDF	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC535	107	31100	63.8	28.0	9.0	7.3	23.1	37.4	2.75	57.4	0.9	40.7	69.8	0.79	4.82	18.1
MC5660	106	30000	62.1	27.9	8.9	7.8	22.7	35.9	2.75	55.2	1.3	41.1	71.8	0.79	4.87	19.1
MC5250	102	31100	62.2	27.2	8.7	7.5	23.0	36.0	2.70	57.0	0.9	42.0	67.2	0.79	4.64	16.8
MC5370	103	30500	61.1	26.8	8.6	7.2	24.2	38.0	2.99	55.0	1.3	38.5	69.1	0.77	4.68	17.8
EXP-J	109	30500	63.8	25.8	8.3	8.0	26.0	41.9	3.48	52.8	0.8	35.0	68.2	0.76	4.64	17.3
EXP-I	105	31100	61.6	25.7	8.2	8.6	23.3	38.1	2.85	59.1	0.9	38.7	65.6	0.78	5.20	16.1
MCT5451	104	30900	63.8	24.5	7.8	8.1	25.8	41.3	3.40	53.8	1.0	35.4	64.9	0.75	4.71	15.8
EXP-H	103	30800	60.6	23.1	7.4	8.2	21.2	34.1	2.66	58.8	0.8	43.3	64.2	0.80	5.17	15.5
Averages	105	30750	62.4	26.1	8.4	7.8	23.7	37.8	2.95	56.1	1.0	39.3	67.6	0.78	4.84	17.1
																3243

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC535	107	31100	63.8	28.0	9.0	7.3	23.1	37.4	2.75	57.4	0.9	40.7	69.8	0.79	4.82	18.1	3444
EXP-H	103	30800	60.6	23.1	7.4	8.2	21.2	34.1	2.66	58.8	0.8	43.3	64.2	0.80	5.17	15.5	3343
MC5250	102	31100	62.2	27.2	8.7	7.5	23.0	36.0	2.70	57.0	0.9	42.0	67.2	0.79	4.64	16.8	3313
EXP-I	105	31100	61.6	25.7	8.2	8.6	23.3	38.1	2.85	59.1	0.9	38.7	65.6	0.78	5.20	16.1	3280
MC5660	106	30000	62.1	27.9	8.9	7.8	22.7	35.9	2.75	55.2	1.3	41.1	71.8	0.79	4.87	19.1	3275
EXP-J	109	30500	63.8	25.8	8.3	8.0	26.0	41.9	3.48	52.8	0.8	35.0	68.2	0.76	4.64	17.3	3183
MC5370	103	30500	61.1	26.8	8.6	7.2	24.2	38.0	2.99	55.0	1.3	38.5	69.1	0.77	4.68	17.8	3158
MCT5451	104	30900	63.8	24.5	7.8	8.1	25.8	41.3	3.40	53.8	1.0	35.4	64.9	0.75	4.71	15.8	2944
Averages	105	30750	62.4	26.1	8.4	7.8	23.7	37.8	2.95	56.1	1.0	39.3	67.6	0.78	4.84	17.1	3243



2014 Masters Choice Replicated Silage Trial
 Cochranville, PA
 Trial: 110 to 118 Days
 Planted: 5/12/14 Harvested: 9/15/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68% Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
EXP-O	118	29200	62.8	34.0	10.9	a	40.3	112.7
EXP-N	118	30600	63.4	32.7	10.5	ab	47.0	109.7
MC6750	117	28400	66.9	31.0	9.9	abc	53.3	109.7
MC6470	114	31100	65.1	30.3	9.7	bcd	37.0	92.7
MC6580	115	27000	66.8	29.6	9.5	bcd	49.3	105.7
EXP-K	110	30800	63.5	29.6	9.5	bcde	46.3	108.0
EXP-L	112	30000	61.4	29.1	9.3	cde	46.7	106.7
MC6150	111	30800	64.9	28.7	9.2	cdde	45.0	105.0
MCT6361	113	30300	64.3	27.8	8.9	de	48.0	106.0
MC6890	118	31100	63.9	27.1	8.7	e	48.3	110.7
EXP-M	117	31100	62.9	26.9	8.6	e	48.0	111.3
Averages	30036	64.2	29.7	9.5		46.3	107.1	38.5

LSD(.05)

cv = 6.2

3.1

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68% Tons	% DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
EXP-O	118	29200	62.8	34.0	10.9	7.4	22.4	35.8	2.71	54.8	1.0	43.0	71.8	0.79	4.84	19.2	3305
EXP-N	118	30600	63.4	32.7	10.5	6.6	22.6	36.3	2.49	57.3	0.8	42.3	72.7	0.79	5.02	19.7	3405
MC6750	117	28400	66.9	31.0	9.9	7.7	23.7	38.4	3.01	55.3	1.1	38.9	72.0	0.77	5.15	19.3	3495
MC6470	114	31100	65.1	30.3	9.7	7.7	21.6	34.3	2.68	58.2	1.0	43.0	67.8	0.80	4.77	17.1	3591
MC6580	115	27000	66.8	29.6	9.5	7.5	22.6	35.8	2.62	55.6	1.2	41.1	72.3	0.78	4.89	19.4	3529
EXP-K	110	30800	63.5	29.6	9.5	7.8	24.3	39.2	2.99	56.7	1.0	37.3	68.9	0.77	4.93	17.6	3311
EXP-L	112	30000	61.4	29.1	9.3	7.7	24.7	39.3	3.23	53.6	0.9	39.0	67.8	0.78	4.70	17.1	3188
MC6150	111	30800	64.9	28.7	9.2	7.4	22.7	36.3	2.72	55.6	1.1	41.6	71.0	0.79	4.89	18.7	3471
MCT6361	113	30300	64.3	27.8	8.9	7.0	21.4	33.2	2.56	54.5	1.0	46.2	70.9	0.80	4.74	18.7	3491
MC6890	118	31100	63.9	27.1	8.7	8.2	26.5	41.4	3.50	52.8	1.2	34.2	61.8	0.75	4.84	14.5	3157
EXP-M	117	31100	62.9	26.9	8.6	8.3	27.8	43.4	3.51	53.2	1.0	32.0	65.6	0.74	4.75	16.1	3011
Averages	115	30036	64.2	29.7	9.5	7.6	23.7	37.6	2.91	55.2	1.0	39.9	69.3	0.78	4.87	17.9	3359

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd), %HR, Van Amburgh, iNDF

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% NDF	% Lignin (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton	
MC6470	114	31100	65.1	30.3	9.7	7.7	21.6	34.3	2.68	58.2	1.0	43.0	67.8	0.80	4.77	17.1	
MC6580	115	27000	66.8	29.6	9.5	7.5	22.6	35.8	2.62	55.6	1.2	41.1	72.3	0.78	4.89	19.4	
MC6750	117	28400	66.9	31.0	9.9	7.7	23.7	38.4	3.01	55.3	1.1	38.9	72.0	0.77	5.15	19.3	
MCT6361	113	30300	64.3	27.8	8.9	7.0	21.4	33.2	2.56	54.5	1.0	46.2	70.9	0.80	4.74	18.7	
MC6150	111	30800	64.9	28.7	9.2	7.4	22.7	36.3	2.72	55.6	1.1	41.6	71.0	0.79	4.89	18.7	
EXP-N	118	30600	63.4	32.7	10.5	6.6	22.6	36.3	2.49	57.3	0.8	42.3	72.7	0.79	5.02	19.7	
EXP-K	110	30800	63.5	29.6	9.5	7.8	24.3	39.2	2.99	56.7	1.0	37.3	68.9	0.77	4.93	17.6	
EXP-O	118	29200	62.8	34.0	10.9	7.4	22.4	35.8	2.71	54.8	1.0	43.0	71.8	0.79	4.84	19.2	
EXP-L	112	30000	61.4	29.1	9.3	7.7	24.7	39.3	3.23	53.6	0.9	39.0	67.8	0.78	4.70	17.1	
MC6890	118	31100	63.9	27.1	8.7	8.2	26.5	41.4	3.50	52.8	1.2	34.2	61.8	0.75	4.84	14.5	
EXP-M	117	31100	62.9	26.9	8.6	8.3	27.8	43.4	3.51	53.2	1.0	32.0	65.6	0.74	4.75	16.1	
Averages	115	30036	64.2	29.7	9.5	7.6	23.7	37.6	2.91	55.2	1.0	39.9	69.3	0.78	4.87	17.9	3359



2014 Masters Choice Replicated Silage Trial

Lewisburg, PA

Trial: 102 to 109 Days

Planted: 5/28/14 Harvested: 9/24/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
MC5660	106	30600	67.9	31.7	10.1	a	61.3	124.0	50.0
EXP-J	109	31100	67.7	30.9	9.9	ab	57.0	120.0	43.3
MC5250	102	31100	65.5	30.2	9.7	ab	59.7	121.3	40.0
MC535	107	31100	68.9	27.9	8.9	bc	57.3	122.3	50.0
MCT5451	104	29500	66.3	27.6	8.8	bc	54.0	112.3	50.0
EXP-H	103	30900	62.3	27.3	8.7	c	56.0	107.0	40.0
MC5370	103	29400	66.0	27.3	8.7	c	56.3	118.0	20.0
EXP-I	105	31100	66.5	25.1	8.0	c	53.3	108.7	20.0
Averages		30600	66.4	28.5	9.1		56.9	116.7	39.2
LSD(.05) 3.3									
cv = 6.7									

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% NDF	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC5660	106	30600	67.9	31.7	10.1	6.1	24.7	39.2	3.05	50.7	1.1	35.3	79.5	0.76	4.49	24.1	3369
EXP-J	109	31100	67.7	30.9	9.9	7.3	22.7	37.4	3.11	50.4	0.6	36.9	72.9	0.78	4.61	19.7	3457
MC5250	102	31100	65.5	30.2	9.7	6.4	21.8	34.9	2.63	54.2	0.7	40.3	74.9	0.79	4.62	21.0	3463
MC535	107	31100	68.9	27.9	8.9	5.8	23.1	37.2	2.84	51.8	1.0	37.9	78.6	0.78	4.39	23.4	3505
MCT5451	104	29500	66.3	27.6	8.8	6.3	22.4	37.9	2.78	53.0	0.9	37.2	79.0	0.78	4.74	23.7	3416
EXP-H	103	30900	62.3	27.3	8.7	5.9	20.9	34.1	2.57	55.0	0.5	43.2	74.0	0.79	4.85	20.4	3339
MC5370	103	29400	66.0	27.3	8.7	5.8	23.9	38.8	2.97	52.2	0.8	36.8	76.8	0.77	4.60	22.2	3353
EXP-I	105	31100	66.5	25.1	8.0	7.4	21.1	35.1	2.62	56.1	0.6	39.1	73.3	0.79	4.96	20.0	3578
Averages	105	30600	66.4	28.5	9.1	6.4	22.6	36.8	2.82	52.9	0.8	38.3	76.1	0.78	4.66	21.8	3435

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
EXP-I	105	31100	66.5	25.1	8.0	7.4	21.1	35.1	2.62	56.1	0.6	39.1	73.3	0.79	4.96	20.0	3578
MC535	107	31100	68.9	27.9	8.9	5.8	23.1	37.2	2.84	51.8	1.0	37.9	78.6	0.78	4.39	23.4	3505
MC5250	102	31100	65.5	30.2	9.7	6.4	21.8	34.9	2.63	54.2	0.7	40.3	74.9	0.79	4.62	21.0	3463
EXP-J	109	31100	67.7	30.9	9.9	7.3	22.7	37.4	3.11	50.4	0.6	36.9	72.9	0.78	4.61	19.7	3457
MCT5451	104	29500	66.3	27.6	8.8	6.3	22.4	37.9	2.78	53.0	0.9	37.2	79.0	0.78	4.74	23.7	3416
MC5660	106	30600	67.9	31.7	10.1	6.1	24.7	39.2	3.05	50.7	1.1	35.3	79.5	0.76	4.49	24.1	3369
MC5370	103	29400	66.0	27.3	8.7	5.8	23.9	38.8	2.97	52.2	0.8	36.8	76.8	0.77	4.60	22.2	3353
EXP-H	103	30900	62.3	27.3	8.7	5.9	20.9	34.1	2.57	55.0	0.5	43.2	74.0	0.79	4.85	20.4	3339
Averages	105	30600	66.4	28.5	9.1	6.4	22.6	36.8	2.82	52.9	0.8	38.3	76.1	0.78	4.66	21.8	3435



2014 Masters Choice Replicated Silage Trial

Lewisburg, PA

Trial: 90 to 98 Days

Planted: 5/28/14 Harvested: 9/24/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
MC4880	98	31100	66.5	26.5	8.5	a	57.7	118.0	46.7
EXP-F	95	31100	66.6	26.0	8.3	a	51.0	115.0	36.7
EXP-D	90	31100	58.4	25.7	8.2	a	54.3	108.3	23.3
EXP-G	98	31100	65.8	25.6	8.2	a	54.7	110.0	56.7
EXP-E	92	30500	61.8	24.9	8.0	ab	50.0	102.7	43.3
MC4560	95	28600	66.5	24.3	7.8	abc	52.7	110.0	53.3
MC4050	90	30800	66.2	24.0	7.7	abc	56.0	107.0	40.0
MC4210	92	31100	60.7	23.2	7.4	bc	53.3	111.0	26.7
MC4540	95	30000	64.7	21.7	6.9	c	49.0	103.3	50.0
Averages	94	30600	64.1	24.6	7.9		53.2	109.5	41.9
							2.6		
									cv = 6.2
									LSD(.05)

LSD(.05)

cv = 6.2

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% NDF	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC4880	98	31100	66.5	26.5	8.5	7.0	25.0	39.4	3.19	51.2	0.8	38.7	73.6	0.77	4.55	20.2	3366
EXP-F	95	31100	66.6	26.0	8.3	7.9	23.1	36.9	3.11	50.8	0.7	40.6	70.9	0.78	4.72	18.6	3453
EXP-D	90	31100	58.4	25.7	8.2	7.1	27.8	44.1	3.79	48.8	0.7	35.0	66.6	0.74	4.32	16.5	2723
EXP-G	98	31100	65.8	25.6	8.2	7.2	23.5	36.9	2.80	55.5	0.8	42.2	69.5	0.78	5.00	18.0	3477
EXP-E	92	30500	61.8	24.9	8.0	6.7	24.1	38.9	2.78	59.2	0.6	41.1	71.0	0.79	5.24	18.7	3327
MC4560	95	28600	66.5	24.3	7.8	7.4	23.1	36.8	2.83	52.6	0.9	40.5	73.3	0.79	4.80	20.0	3491
MC4050	90	30800	66.2	24.0	7.7	6.3	25.2	40.0	3.18	51.7	0.9	39.3	74.8	0.77	4.65	20.9	3375
MC4210	92	31100	60.7	23.2	7.4	6.0	22.7	35.1	2.73	50.6	0.8	45.8	74.0	0.79	4.40	20.4	3110
MC4540	95	30000	64.7	21.7	6.9	7.3	23.4	36.9	2.85	54.0	0.7	42.3	72.7	0.78	4.92	19.6	3371
Averages	94	30600	64.1	24.6	7.9	7.0	24.2	38.3	3.0	52.7	0.8	40.6	71.8	0.8	4.7	19.2	3299

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr starchd

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4nm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC4560	95	28600	66.5	24.3	7.8	7.4	23.1	36.8	2.83	52.6	0.9	40.5	73.3	0.79	4.80	20.0	3491
EXP-G	98	31100	65.8	25.6	8.2	7.2	23.5	36.9	2.80	55.5	0.8	42.2	69.5	0.78	5.00	18.0	3477
EXP-F	95	31100	66.6	26.0	8.3	7.9	23.1	36.9	3.11	50.8	0.7	40.6	70.9	0.78	4.72	18.6	3453
MC4050	90	30800	66.2	24.0	7.7	6.3	25.2	40.0	3.18	51.7	0.9	39.3	74.8	0.77	4.65	20.9	3375
MC4540	95	30000	64.7	21.7	6.9	7.3	23.4	36.9	2.85	54.0	0.7	42.3	72.7	0.78	4.92	19.6	3371
MC4880	98	31100	66.5	26.5	8.5	7.0	25.0	39.4	3.19	51.2	0.8	38.7	73.6	0.77	4.55	20.2	3366
EXP-E	92	30500	61.8	24.9	8.0	6.7	24.1	38.9	2.78	59.2	0.6	41.1	71.0	0.79	5.24	18.7	3327
MC4210	92	31100	60.7	23.2	7.4	6.0	22.7	35.1	2.73	50.6	0.8	45.8	74.0	0.79	4.40	20.4	3110
EXP-D	90	31100	58.4	25.7	8.2	7.1	27.8	44.1	3.79	48.8	0.7	35.0	66.6	0.74	4.32	16.5	2723
Averages	94	30600	64.1	24.6	7.9	7.0	24.2	38.3	3.03	52.7	0.8	40.6	71.8	0.78	4.73	19.2	3299



2014 Masters Choice Replicated Silage Trial

Lewisburg, PA

Trial: 80 to 90 Days

Planted: 5/28/14 Harvested: 9/17/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
MC4050	90	31900	64.4	29.6	9.5	a	58.3	108.7	30.0
MC480	87	30100	62.6	24.9	8.0	b	46.0	102.7	33.3
EXP-B	87	32000	68.5	24.6	7.9	b	56.0	118.0	30.0
MC3220	82	30500	63.4	24.1	7.7	b	48.3	107.0	30.0
EXP-C	88	31900	67.4	22.0	7.0	bc	42.7	98.3	66.7
EXP-A	80	33600	58.2	19.5	6.3	c	45.0	103.0	30.0
Averages	31667	64.1	24.1	7.7			49.4	106.3	36.7
LSD(.05)					3.1				
cv =					7.2				

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	aNDFom	% Lignin (30 hr)	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC4050	90	31900	64.4	29.6	9.5	8.0	21.6	34.5	2.83	52.3	0.9	43.3	74.1	0.79	4.89	20.5	3411
MC480	87	30100	62.6	24.9	8.0	7.6	25.8	40.5	3.38	51.3	0.9	37.1	72.7	0.76	4.61	19.6	3108
EXP-B	87	32000	68.5	24.6	7.9	7.4	27.8	44.2	3.73	49.4	0.9	33.7	73.5	0.75	4.61	20.1	3211
MC3220	82	30500	63.4	24.1	7.7	7.9	26.5	41.8	3.60	48.6	1.0	35.4	70.9	0.75	4.58	18.7	3044
EXP-C	88	31900	67.4	22.0	7.0	8.6	23.9	38.2	3.20	54.2	0.8	37.2	70.1	0.78	5.04	18.2	3514
EXP-A	80	33600	58.2	19.5	6.3	6.7	23.1	37.3	3.02	53.8	0.4	42.8	67.9	0.79	4.63	17.1	3021
Averages	86	31667	64.1	24.1	7.7	7.7	24.8	39.4	3.3	51.6	0.8	38.3	71.5	0.8	4.7	19.0	3218

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
EXP-C	88	31900	67.4	22.0	7.0	8.6	23.9	38.2	3.20	54.2	0.8	37.2	70.1	0.78	5.04	18.2	3514
MC4050	90	31900	64.4	29.6	9.5	8.0	21.6	34.5	2.83	52.3	0.9	43.3	74.1	0.79	4.89	20.5	3411
EXP-B	87	32000	68.5	24.6	7.9	7.4	27.8	44.2	3.73	49.4	0.9	33.7	73.5	0.75	4.61	20.1	3211
MC480	87	30100	62.6	24.9	8.0	7.6	25.8	40.5	3.38	51.3	0.9	37.1	72.7	0.76	4.61	19.6	3108
MC3220	82	30500	63.4	24.1	7.7	7.9	26.5	41.8	3.60	48.6	1.0	35.4	70.9	0.75	4.58	18.7	3044
EXP-A	80	33600	58.2	19.5	6.3	6.7	23.1	37.3	3.02	53.8	0.4	42.8	67.9	0.79	4.63	17.1	3021
Averages	86	31667	64.1	24.1	7.7	7.7	24.8	39.4	3.3	51.6	0.8	38.3	71.5	0.8	4.7	19.0	3218



2014 Masters Choice Replicated Silage Trial

Jersey Shore, PA

Trial: 90 to 98 Days

Planted: 4/29/14 Harvested: 9/9/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
EXP-G	98	33600	60.3	28.1	9.0	a	50.3	103.0	36.7
EXP-D	90	33100	52.1	27.7	8.9	ab	50.0	100.3	16.7
MC4880	98	33100	64.2	27.2	8.7	abc	50.7	109.0	36.7
EXP-E	92	32700	58.5	26.8	8.6	abc	48.7	99.0	20.0
446M	95	32000	60.5	25.8	8.3	bcd	45.0	100.3	30.0
MC4050	90	30000	60.6	25.1	8.0	cd	48.3	98.0	16.7
MC4540	95	33400	59.9	24.4	7.8	de	50.3	102.7	26.7
MC4210	92	33100	59.3	24.0	7.7	de	47.0	99.0	16.7
MC4560	95	25400	63.7	22.7	7.3	e	44.7	100.7	40.0
Averages	94	31822	59.9	25.8	8.2		48.3	101.3	26.7
						LSD(.05)	2.2		
						cv =	4.9		

LSD(.05)

cv =

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% NDF	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
EXP-G	98	33600	60.3	28.1	9.0	8.1	21.0	32.6	2.59	54.6	0.7	45.0	69.9	0.79	5.00	18.1	3194
EXP-D	90	33100	52.1	27.7	8.9	7.6	22.3	34.0	2.77	54.6	0.7	44.9	67.9	0.79	4.80	17.2	2852
MC4880	98	33100	64.2	27.2	8.7	7.4	20.6	32.0	2.72	51.7	0.7	46.2	72.2	0.80	4.65	19.4	3452
EXP-E	92	32700	58.5	26.8	8.6	7.7	22.0	33.5	2.86	52.8	0.6	45.3	68.2	0.79	4.85	17.3	3040
446M	95	32000	60.5	25.8	8.3	8.3	20.6	31.9	2.84	50.8	1.1	44.2	72.5	0.79	5.06	19.6	3137
MC4050	90	30000	60.6	25.1	8.0	8.6	21.7	33.1	2.93	51.0	1.1	42.8	71.9	0.78	4.88	19.2	3119
MC4540	95	33400	59.9	24.4	7.8	7.6	20.3	31.5	2.53	54.8	0.7	47.6	71.5	0.79	5.02	19.0	3208
MC4210	92	33100	59.3	24.0	7.7	8.1	23.0	35.3	3.35	47.6	1.1	41.1	70.7	0.78	4.66	18.5	2960
MC4560	95	25400	63.7	22.7	7.3	7.9	24.3	38.2	3.05	53.6	0.9	37.9	72.4	0.76	4.91	19.5	3220
Averages	94	31822	59.9	25.8	8.2	7.9	21.8	33.6	2.8	52.4	0.8	43.9	70.8	0.8	4.9	18.6	3131

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr starchd

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons %	CP %	ADF aNDFom	% Lignin (30 hr)	% NDFd Sugar	% Starch	% 7 Hr 4nm Starchd	% NDF Kd ** NEL	% Starch Kd	Milk per Ton	
MC4880	98	33100	64.2	27.2	8.7	7.4	20.6	32.0	2.72	51.7	0.7	46.2	72.2	0.80	4.65 19.4 3452
MC4560	95	25400	63.7	22.7	7.3	7.9	24.3	38.2	3.05	53.6	0.9	37.9	72.4	0.76	4.91 19.5 3220
MC4540	95	33400	59.9	24.4	7.8	7.6	20.3	31.5	2.53	54.8	0.7	47.6	71.5	0.80	5.02 19.0 3208
EXP-G	98	33600	60.3	28.1	9.0	8.1	21.0	32.6	2.59	54.6	0.7	45.0	69.9	0.79	5.00 18.1 3194
446M	95	32000	60.5	25.8	8.3	8.3	20.6	31.9	2.84	50.8	1.1	44.2	72.5	0.79	5.06 19.6 3137
MC4050	90	30000	60.6	25.1	8.0	8.6	21.7	33.1	2.93	51.0	1.1	42.8	71.9	0.78	4.88 19.2 3119
EXP-E	92	32700	58.5	26.8	8.6	7.7	22.0	33.5	2.86	52.8	0.6	45.3	68.2	0.79	4.85 17.3 3040
MC4210	92	33100	59.3	24.0	7.7	8.1	23.0	35.3	3.35	47.6	1.1	41.1	70.7	0.78	4.66 18.5 2960
EXP-D	90	33100	52.1	27.7	8.9	7.6	22.3	34.0	2.77	54.6	0.7	44.9	67.9	0.79	4.80 17.2 2852
Averages	94	31822	59.9	25.8	8.2	7.9	21.8	33.6	2.85	52.4	0.8	43.9	70.8	0.79	4.87 18.6 3131



2014 Masters Choice Replicated Silage Trial
Jersey Shore, PA
Trial: 80 to 90 Days
Planted: 4/29/14 Harvested: 9/9/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
EXP-B	87	31100	62.8	24.7	7.9	a	54.7	114.7	23.3
MC4050	90	28700	64.2	24.5	7.8	a	48.7	98.0	26.7
MC3220	82	30900	56.7	23.6	7.6	ab	45.0	103.3	23.3
MC480	87	28300	60.8	22.8	7.3	abc	43.7	93.3	16.7
EXP-C	88	31100	61.4	21.0	6.7	bc	39.7	86.3	33.3
EXP-A	80	34200	53.0	20.0	6.4	c	42.7	94.0	10.0
Averages	86	30717	59.8	22.8	7.3		45.8	98.3	22.2

3.0

LSD(.05)
cv = 7.4

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin (30 hr)	% NDFd	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
EXP-B	87	31100	62.8	24.7	7.9	8.2	30.6	47.2	4.15	46.8	1.2	27.8	68.5	0.71	4.27	17.4	2735
MC4050	90	28700	64.2	24.5	7.8	8.2	26.2	40.9	3.60	49.5	0.9	36.5	61.1	0.74	4.88	19.2	3051
MC3220	82	30900	56.7	23.6	7.6	8.2	25.7	39.8	3.59	50.3	1.3	34.4	67.6	0.76	4.66	17.0	2792
MC480	87	28300	60.8	22.8	7.3	7.9	22.5	34.7	3.03	51.8	0.9	42.7	72.0	0.78	4.84	19.3	3143
EXP-C	88	31100	61.4	21.0	6.7	8.8	23.0	35.8	3.16	52.9	1.3	37.2	66.2	0.77	4.99	16.4	3157
EXP-A	80	34200	53.0	20.0	6.4	9.1	22.1	34.7	3.23	52.8	0.8	40.0	62.1	0.78	4.81	14.6	2860
Averages	86	30717	59.8	22.8	7.3	8.4	25.0	38.9	3.5	50.7	1.1	36.4	66.3	0.8	4.7	17.3	2956

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
EXP-C	88	31100	61.4	21.0	6.7	8.8	23.0	35.8	3.16	52.9	1.3	37.2	66.2	0.77	4.99	16.4	3157
MC480	87	28300	60.8	22.8	7.3	7.9	22.5	34.7	3.03	51.8	0.9	42.7	72.0	0.78	4.84	19.3	3143
MC4050	90	28700	64.2	24.5	7.8	8.2	26.2	40.9	3.60	49.5	0.9	36.5	61.1	0.74	4.88	19.2	3051
EXP-A	80	34200	53.0	20.0	6.4	9.1	22.1	34.7	3.23	52.8	0.8	40.0	62.1	0.78	4.81	14.6	2860
MC3220	82	30900	56.7	23.6	7.6	8.2	25.7	39.8	3.59	50.3	1.3	34.4	67.6	0.76	4.66	17.0	2792
EXP-B	87	31100	62.8	24.7	7.9	8.2	30.6	47.2	4.15	46.8	1.2	27.8	68.5	0.71	4.27	17.4	2735
Averages	86	30717	59.8	22.8	7.3	8.4	25.0	38.9	3.46	50.7	1.1	36.4	66.3	0.76	4.74	17.3	2956



2014 Masters Choice Silage Trial

Dayton, VA

Planted: 6/3/14 Harvested: 9/16/14

Maturity Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC4050	90	26000	50.5	26.4	8.4	7.8	19.3	31.2	2.64	50.2	1.6	44.2	69.7	0.79	4.17	18.0	2778
MC4210	92	26000	54.3	22.9	7.3	8.4	16.7	27.3	2.32	51.3	1.8	47.7	73.7	0.80	4.61	20.2	2843
MC4560	95	26000	55.3	22.9	7.3	8.8	19.7	32.4	2.50	57.3	1.1	40.9	68.7	0.78	5.11	17.5	2863
MC4540	95	26000	53.8	25.3	8.1	8.0	21.4	35.3	2.51	60.9	0.7	38.4	66.9	0.78	4.86	16.7	2943
EXP-F	95	26000	56.1	24.5	7.9	7.5	22.9	37.1	2.91	54.1	1.2	36.9	69.8	0.75	4.67	18.1	2759
MC4880	98	26000	60.7	26.5	8.5	7.5	20.0	32.3	2.58	54.4	1.2	41.7	74.0	0.79	4.68	20.4	3193
MC5090	100	26000	61.0	19.1	6.1	7.3	23.1	37.2	3.02	52.7	1.4	38.9	71.6	0.76	4.97	19.0	3034
MC5250	102	26000	67.0	26.5	8.5	7.5	22.8	34.7	2.69	55.2	1.7	35.8	75.0	0.76	4.76	21.0	3379
MC5370	103	26000	57.9	33.7	10.8	7.2	19.9	32.1	2.43	56.1	1.8	40.8	74.0	0.79	4.88	20.4	3055
MC5300	103	26000	67.0	28.0	9.0	7.5	23.6	36.0	2.78	55.1	2.1	33.8	73.8	0.75	4.72	20.3	3333
MC530	105	26000	62.3	30.0	9.6	6.9	19.1	32.0	2.35	55.5	1.6	42.9	72.4	0.79	4.77	19.5	3329
MC5660	106	26000	66.4	32.8	10.5	7.0	19.9	30.9	2.28	56.4	1.8	41.6	74.7	0.79	5.04	20.8	3567
MC535	107	26000	67.0	30.5	9.7	7.5	21.9	34.0	2.66	55.1	1.9	37.2	73.4	0.77	4.91	20.0	3475
MC5800	108	26000	65.5	25.8	8.3	7.8	20.5	32.5	2.61	56.6	1.4	40.5	72.1	0.78	5.11	19.3	3498
MC6060	110	26000	60.2	23.5	7.5	7.7	27.8	42.9	3.62	50.7	1.0	30.8	69.0	0.71	4.49	17.7	2691
EXP-K	110	26000	62.9	26.0	8.3	8.0	21.3	33.8	2.60	58.6	1.9	36.6	69.2	0.77	5.05	17.8	3329
MC6150	111	26000	69.4	34.2	10.9	7.8	23.5	37.2	2.86	56.1	2.1	33.0	72.4	0.75	5.26	19.5	3404
EXP-L	112	26000	67.1	31.1	9.9	7.2	26.1	42.1	3.20	53.6	1.8	29.1	75.8	0.74	4.77	21.5	3181
MC6470	114	26000	67.0	27.5	8.8	8.0	24.0	37.2	2.99	54.0	1.8	32.0	73.2	0.76	4.56	19.9	3287
MC6580	115	26000	65.0	27.1	8.7	7.6	23.8	38.7	2.80	57.6	1.7	31.9	72.1	0.75	5.14	19.3	3246
MC590	116	26000	67.6	32.0	10.2	7.3	24.8	39.0	2.91	57.2	1.9	31.0	73.1	0.75	5.03	19.8	3327
MC6750	117	26000	65.9	31.5	10.1	7.9	24.5	37.9	2.94	57.8	2.4	29.6	70.0	0.75	5.28	18.2	3157
MC6890	118	26000	66.9	27.8	8.9	7.7	26.0	39.5	2.99	55.3	2.8	28.8	71.5	0.73	4.95	19.0	3069
Emerge 542	101	26000	59.4	27.2	8.7	7.9	21.2	35.2	2.26	59.9	1.5	38.0	75.3	0.78	4.96	21.2	3183
Emerge 580	104	26000	53.2	26.2	8.4	7.6	25.1	40.2	2.84	56.9	1.6	34.0	78.6	0.76	5.08	23.4	2809
Emerge 600	107	26000	60.4	31.1	10.0	8.0	22.7	36.5	2.65	57.4	1.6	35.8	73.6	0.77	4.87	20.1	3141
Emerge 610	108	26000	64.1	28.2	9.0	8.7	20.1	31.1	2.32	56.7	2.4	38.5	76.4	0.79	4.80	21.9	3459
Emerge 619	109	26000	67.3	31.6	10.1	8.2	21.6	33.9	2.24	58.7	2.5	36.3	77.0	0.79	5.23	22.3	3569
Emerge 669	111	26000	69.7	30.4	9.7	8.1	22.0	33.9	2.34	56.7	2.5	36.2	78.9	0.78	5.11	23.6	3537
Emerge 731	112	26000	65.8	31.7	10.2	7.9	26.0	38.4	2.82	57.5	2.5	30.0	76.1	0.75	4.78	21.7	3181
Emerge 849	115	26000	66.2	28.2	9.0	8.3	20.8	32.7	2.34	60.2	2.2	37.2	73.8	0.79	4.97	20.3	3578
Averages		26000	62.7	28.1	9.0	7.8	22.3	35.3	2.68	56.0	1.8	36.5	73.1	0.77	4.89	19.9	3200

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Company and Maturity

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Dayton, VA

Planted: 6/3/14 Harvested: 9/16/14

Maturity Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC4050	90	26000	50.5	26.4	8.4	7.8	19.3	31.2	2.64	50.2	1.6	44.2	69.7	0.79	4.17	18.0	2778
MC4210	92	26000	54.3	22.9	7.3	8.4	16.7	27.3	2.32	51.3	1.8	47.7	73.7	0.80	4.61	20.2	2843
MC4560	95	26000	55.3	22.9	7.3	8.8	19.7	32.4	2.50	57.3	1.1	40.9	68.7	0.78	5.11	17.5	2863
MC4540	95	26000	53.8	25.3	8.1	8.0	21.4	35.3	2.51	60.9	0.7	38.4	66.9	0.78	4.86	16.7	2943
EXP-F	95	26000	56.1	24.5	7.9	7.5	22.9	37.1	2.91	54.1	1.2	36.9	69.8	0.75	4.67	18.1	2759
MC4880	98	26000	60.7	26.5	8.5	7.5	20.0	32.3	2.58	54.4	1.2	41.7	74.0	0.79	4.68	20.4	3193
MC5090	100	26000	61.0	19.1	6.1	7.3	23.1	37.2	3.02	52.7	1.4	38.9	71.6	0.76	4.97	19.0	3034
MC5250	102	26000	67.0	26.5	8.5	7.5	22.8	34.7	2.69	55.2	1.7	35.8	75.0	0.76	4.67	21.0	3379
MC5370	103	26000	57.9	33.7	10.8	7.2	19.9	32.1	2.43	56.1	1.8	40.8	74.0	0.79	4.88	20.4	3055
MC5300	103	26000	67.0	28.0	9.0	7.5	23.6	36.0	2.78	55.1	2.1	33.8	73.8	0.75	4.72	20.3	3333
MC530	105	26000	62.3	30.0	9.6	6.9	19.1	32.0	2.35	55.5	1.6	42.9	72.4	0.79	4.77	19.5	3329
MC5660	106	26000	66.4	32.8	10.5	7.0	19.9	30.9	2.28	56.4	1.8	41.6	74.7	0.79	5.04	20.8	3567
MC535	107	26000	67.0	30.5	9.7	7.5	21.9	34.0	2.66	55.1	1.9	37.2	73.4	0.77	4.91	20.0	3475
MC5800	108	26000	65.5	25.8	8.3	7.8	20.5	32.5	2.61	56.6	1.4	40.5	72.1	0.78	5.11	19.3	3498
MC6060	110	26000	60.2	23.5	7.5	7.7	27.8	42.9	3.62	50.7	1.0	30.8	69.0	0.71	4.49	17.7	2691
EXP-K	110	26000	62.9	26.0	8.3	8.0	21.3	33.8	2.60	58.6	1.9	36.6	69.2	0.77	5.05	17.8	3329
MC6150	111	26000	69.4	34.2	10.9	7.8	23.5	37.2	2.86	56.1	2.1	33.0	72.4	0.75	5.26	19.5	3404
EXP-L	112	26000	67.1	31.1	9.9	7.2	26.1	42.1	3.20	53.6	1.8	29.1	75.8	0.74	4.77	21.5	3181
MC6470	114	26000	67.0	27.5	8.8	8.0	24.0	37.2	2.99	54.0	1.8	32.0	73.2	0.76	4.56	19.9	3287
MC6580	115	26000	65.0	27.1	8.7	7.6	23.8	38.7	2.80	57.6	1.7	31.9	72.1	0.75	5.14	19.3	3246
MC590	116	26000	67.6	32.0	10.2	7.3	24.8	39.0	2.91	57.2	1.9	31.0	73.1	0.75	5.03	19.8	3327
MC6750	117	26000	65.9	31.5	10.1	7.9	24.5	37.9	2.94	57.8	2.4	29.6	70.0	0.75	5.28	18.2	3157
MC6890	118	26000	66.9	27.8	8.9	7.7	26.0	39.5	2.99	55.3	2.8	28.8	71.5	0.73	4.95	19.0	3069
Averages		26000	62.5	27.6	8.8	7.6	22.3	35.4	2.75	55.3	1.7	36.7	72.0	0.76	4.86	19.3	3163

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



MASTERS CHOICE
SEEDCORN.COM

2014 Masters Choice Silage Trial

Dayton, VA

Planted: 6/3/14 Harvested: 9/16/14

Yield Sort

King's
AgriSeeds
Inc.


Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC6150	111	26000	69.4	34.2	10.9	7.8	23.5	37.2	2.86	56.1	2.1	33.0	72.4	0.75	5.26	19.5	3404
MC5370	103	26000	57.9	33.7	10.8	7.2	19.9	32.1	2.43	56.1	1.8	40.8	74.0	0.79	4.88	20.4	3055
MC5660	106	26000	66.4	32.8	10.5	7.0	19.9	30.9	2.28	56.4	1.8	41.6	74.7	0.79	5.04	20.8	3567
MC590	116	26000	67.6	32.0	10.2	7.3	24.8	39.0	2.91	57.2	1.9	31.0	73.1	0.75	5.03	19.8	3327
MC6750	117	26000	65.9	31.5	10.1	7.9	24.5	37.9	2.94	57.8	2.4	29.6	70.0	0.75	5.28	18.2	3157
EXP-L	112	26000	67.1	31.1	9.9	7.2	26.1	42.1	3.20	53.6	1.8	29.1	75.8	0.74	4.77	21.5	3181
MC535	107	26000	67.0	30.5	9.7	7.5	21.9	34.0	2.66	55.1	1.9	37.2	73.4	0.77	4.91	20.0	3475
MC530	105	26000	62.3	30.0	9.6	6.9	19.1	32.0	2.35	55.5	1.6	42.9	72.4	0.79	4.77	19.5	3329
MC5300	103	26000	67.0	28.0	9.0	7.5	23.6	36.0	2.78	55.1	2.1	33.8	73.8	0.75	4.72	20.3	3333
MC6890	118	26000	66.9	27.8	8.9	7.7	26.0	39.5	2.99	55.3	2.8	28.8	71.5	0.73	4.95	19.0	3069
MC6470	114	26000	67.0	27.5	8.8	8.0	24.0	37.2	2.99	54.0	1.8	32.0	73.2	0.76	4.56	19.9	3287
MC6580	115	26000	65.0	27.1	8.7	7.6	23.8	38.7	2.80	57.6	1.7	31.9	72.1	0.75	5.14	19.3	3246
MC4880	98	26000	60.7	26.5	8.5	7.5	20.0	32.3	2.58	54.4	1.2	41.7	74.0	0.79	4.68	20.4	3193
MC5250	102	26000	67.0	26.5	8.5	7.5	22.8	34.7	2.69	55.2	1.7	35.8	75.0	0.76	4.76	21.0	3379
MC4050	90	26000	50.5	26.4	8.4	7.8	19.3	31.2	2.64	50.2	1.6	44.2	69.7	0.79	4.17	18.0	2778
EXP-K	110	26000	62.9	26.0	8.3	8.0	21.3	33.8	2.60	58.6	1.9	36.6	69.2	0.77	5.05	17.8	3329
MC5800	108	26000	65.5	25.8	8.3	7.8	20.5	32.5	2.61	56.6	1.4	40.5	72.1	0.78	5.11	19.3	3498
MC4540	95	26000	53.8	25.3	8.1	8.0	21.4	35.3	2.51	60.9	0.7	38.4	66.9	0.78	4.86	16.7	2943
EXP-F	95	26000	56.1	24.5	7.9	7.5	22.9	37.1	2.91	54.1	1.2	36.9	69.8	0.75	4.67	18.1	2759
MC6060	110	26000	60.2	23.5	7.5	7.7	27.8	42.9	3.62	50.7	1.0	30.8	69.0	0.71	4.49	17.7	2691
MC4210	92	26000	54.3	22.9	7.3	8.4	16.7	27.3	2.32	51.3	1.8	47.7	73.7	0.80	4.61	20.2	2843
MC4560	95	26000	55.3	22.9	7.3	8.8	19.7	32.4	2.50	57.3	1.1	40.9	68.7	0.78	5.11	17.5	2863
MC5090	100	26000	61.0	19.1	6.1	7.3	23.1	37.2	3.02	52.7	1.4	38.9	71.6	0.76	4.97	19.0	3034
Emerge 731	112	26000	65.8	31.7	10.2	7.9	26.0	38.4	2.82	57.5	2.5	30.0	76.1	0.75	4.78	21.7	3181
Emerge 619	109	26000	67.3	31.6	10.1	8.2	21.6	33.9	2.24	58.7	2.5	36.3	77.0	0.79	5.23	22.3	3569
Emerge 600	107	26000	60.4	31.1	10.0	8.0	22.7	36.5	2.65	57.4	1.6	35.8	73.6	0.77	4.87	20.1	3141
Emerge 669	111	26000	69.7	30.4	9.7	8.1	22.0	33.9	2.34	56.7	2.5	36.2	78.9	0.78	5.11	23.6	3537
Emerge 610	108	26000	64.1	28.2	9.0	8.7	20.1	31.1	2.32	56.7	2.4	38.5	76.4	0.79	4.80	21.9	3459
Emerge 849	115	26000	66.2	28.2	9.0	8.3	20.8	32.7	2.34	60.2	2.2	37.2	73.8	0.79	4.97	20.3	3578
Emerge 542	101	26000	59.4	27.2	8.7	7.9	21.2	35.2	2.26	59.9	1.5	38.0	75.3	0.78	4.96	21.2	3183
Emerge 580	104	26000	53.2	26.2	8.4	7.6	25.1	40.2	2.84	56.9	1.6	34.0	78.6	0.76	5.08	23.4	2809
Averages		26000	62.7	28.1	9.0	7.8	22.3	35.3	2.68	56.0	1.8	36.5	73.1	0.77	4.89	19.9	3200

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Company and Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Dayton, VA

Planted: 6/3/14 Harvested: 9/16/14

Yield Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC6150	111	26000	69.4	34.2	10.9	7.8	23.5	37.2	2.86	56.1	2.1	33.0	72.4	0.75	5.26	19.5	3404
MC5370	103	26000	57.9	33.7	10.8	7.2	19.9	32.1	2.43	56.1	1.8	40.8	74.0	0.79	4.88	20.4	3055
MC5660	106	26000	66.4	32.8	10.5	7.0	19.9	30.9	2.28	56.4	1.8	41.6	74.7	0.79	5.04	20.8	3567
MC590	116	26000	67.6	32.0	10.2	7.3	24.8	39.0	2.91	57.2	1.9	31.0	73.1	0.75	5.03	19.8	3327
MC6750	117	26000	65.9	31.5	10.1	7.9	24.5	37.9	2.94	57.8	2.4	29.6	70.0	0.75		18.2	3157
EXP-L	112	26000	67.1	31.1	9.9	7.2	26.1	42.1	3.20	53.6	1.8	29.1	75.8	0.74	4.77	21.5	3181
MC535	107	26000	67.0	30.5	9.7	7.5	21.9	34.0	2.66	55.1	1.9	37.2	73.4	0.77	4.91	20.0	3475
MC530	105	26000	62.3	30.0	9.6	6.9	19.1	32.0	2.35	55.5	1.6	42.9	72.4	0.79	4.77	19.5	3329
MC5300	103	26000	67.0	28.0	9.0	7.5	23.6	36.0	2.78	55.1	2.1	33.8	73.8	0.75	4.72	20.3	3333
MC6890	118	26000	66.9	27.8	8.9	7.7	26.0	39.5	2.99	55.3	2.8	28.8	71.5	0.73	4.95	19.0	3069
MC6470	114	26000	67.0	27.5	8.8	8.0	24.0	37.2	2.99	54.0	1.8	32.0	73.2	0.76	4.56	19.9	3287
MC6580	115	26000	65.0	27.1	8.7	7.6	23.8	38.7	2.80	57.6	1.7	31.9	72.1	0.75	5.14	19.3	3246
MC4880	98	26000	60.7	26.5	8.5	7.5	20.0	32.3	2.58	54.4	1.2	41.7	74.0	0.79	4.68	20.4	3193
MC5250	102	26000	67.0	26.5	8.5	7.5	22.8	34.7	2.69	55.2	1.7	35.8	75.0	0.76	4.76	21.0	3379
MC4050	90	26000	50.5	26.4	8.4	7.8	19.3	31.2	2.64	50.2	1.6	44.2	69.7	0.79	4.17	18.0	2778
EXP-K	110	26000	62.9	26.0	8.3	8.0	21.3	33.8	2.60	58.6	1.9	36.6	69.2	0.77	5.05	17.8	3329
MC5800	108	26000	65.5	25.8	8.3	7.8	20.5	32.5	2.61	56.6	1.4	40.5	72.1	0.78	5.11	19.3	3498
MC4540	95	26000	53.8	25.3	8.1	8.0	21.4	35.3	2.51	60.9	0.7	38.4	66.9	0.78	4.86	16.7	2943
EXP-F	95	26000	56.1	24.5	7.9	7.5	22.9	37.1	2.91	54.1	1.2	36.9	69.8	0.75	4.67	18.1	2759
MC6060	110	26000	60.2	23.5	7.5	7.7	27.8	42.9	3.62	50.7	1.0	30.8	69.0	0.71	4.49	17.7	2691
MC4210	92	26000	54.3	22.9	7.3	8.4	16.7	27.3	2.32	51.3	1.8	47.7	73.7	0.80	4.61	20.2	2843
MC4560	95	26000	55.3	22.9	7.3	8.8	19.7	32.4	2.50	57.3	1.1	40.9	68.7	0.78	5.11	17.5	2863
MC5090	100	26000	61.0	19.1	6.1	7.3	23.1	37.2	3.02	52.7	1.4	38.9	71.6	0.76	4.97	19.0	3034
Averages		26000	62.5	27.6	8.8	7.6	22.3	35.4	2.75	55.3	1.7	36.7	72.0	0.76	4.84	19.3	3163

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Dayton, VA

Planted: 6/3/14 Harvested: 9/16/14

Milk per Ton Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC5660	106	26000	66.4	32.8	10.5	7.0	19.9	30.9	2.28	56.4	1.8	41.6	74.7	0.79	5.04	20.8	3567
MC5800	108	26000	65.5	25.8	8.3	7.8	20.5	32.5	2.61	56.6	1.4	40.5	72.1	0.78	5.11	19.3	3498
MC535	107	26000	67.0	30.5	9.7	7.5	21.9	34.0	2.66	55.1	1.9	37.2	73.4	0.77	4.91	20.0	3475
MC6150	111	26000	69.4	34.2	10.9	7.8	23.5	37.2	2.86	56.1	2.1	33.0	72.4	0.75	5.26	19.5	3404
MC5250	102	26000	67.0	26.5	8.5	7.5	22.8	34.7	2.69	55.2	1.7	35.8	75.0	0.76		21.0	3379
MC5300	103	26000	67.0	28.0	9.0	7.5	23.6	36.0	2.78	55.1	2.1	33.8	73.8	0.75	4.72	20.3	3333
MC530	105	26000	62.3	30.0	9.6	6.9	19.1	32.0	2.35	55.5	1.6	42.9	72.4	0.79	4.77	19.5	3329
EXP-K	110	26000	62.9	26.0	8.3	8.0	21.3	33.8	2.60	58.6	1.9	36.6	69.2	0.77	5.05	17.8	3329
MC590	116	26000	67.6	32.0	10.2	7.3	24.8	39.0	2.91	57.2	1.9	31.0	73.1	0.75	5.03	19.8	3327
MC6470	114	26000	67.0	27.5	8.8	8.0	24.0	37.2	2.99	54.0	1.8	32.0	73.2	0.76	4.56	19.9	3287
MC6580	115	26000	65.0	27.1	8.7	7.6	23.8	38.7	2.80	57.6	1.7	31.9	72.1	0.75	5.14	19.3	3246
MC4880	98	26000	60.7	26.5	8.5	7.5	20.0	32.3	2.58	54.4	1.2	41.7	74.0	0.79	4.68	20.4	3193
EXP-L	112	26000	67.1	31.1	9.9	7.2	26.1	42.1	3.20	53.6	1.8	29.1	75.8	0.74	4.77	21.5	3181
MC6750	117	26000	65.9	31.5	10.1	7.9	24.5	37.9	2.94	57.8	2.4	29.6	70.0	0.75	5.28	18.2	3157
MC6890	118	26000	66.9	27.8	8.9	7.7	26.0	39.5	2.99	55.3	2.8	28.8	71.5	0.73	4.95	19.0	3069
MC5370	103	26000	57.9	33.7	10.8	7.2	19.9	32.1	2.43	56.1	1.8	40.8	74.0	0.79	4.88	20.4	3055
MC5090	100	26000	61.0	19.1	6.1	7.3	23.1	37.2	3.02	52.7	1.4	38.9	71.6	0.76	4.97	19.0	3034
MC4540	95	26000	53.8	25.3	8.1	8.0	21.4	35.3	2.51	60.9	0.7	38.4	66.9	0.78	4.86	16.7	2943
MC4560	95	26000	55.3	22.9	7.3	8.8	19.7	32.4	2.50	57.3	1.1	40.9	68.7	0.78	5.11	17.5	2863
MC4210	92	26000	54.3	22.9	7.3	8.4	16.7	27.3	2.32	51.3	1.8	47.7	73.7	0.80	4.61	20.2	2843
MC4050	90	26000	50.5	26.4	8.4	7.8	19.3	31.2	2.64	50.2	1.6	44.2	69.7	0.79	4.17	18.0	2778
EXP-F	95	26000	56.1	24.5	7.9	7.5	22.9	37.1	2.91	54.1	1.2	36.9	69.8	0.75	4.67	18.1	2759
MC6060	110	26000	60.2	23.5	7.5	7.7	27.8	42.9	3.62	50.7	1.0	30.8	69.0	0.71	4.49	17.7	2691
Emerge 849	115	26000	66.2	28.2	9.0	8.3	20.8	32.7	2.34	60.2	2.2	37.2	73.8	0.79	4.97	20.3	3578
Emerge 619	109	26000	67.3	31.6	10.1	8.2	21.6	33.9	2.24	58.7	2.5	36.3	77.0	0.79	5.23	22.3	3569
Emerge 669	111	26000	69.7	30.4	9.7	8.1	22.0	33.9	2.34	56.7	2.5	36.2	78.9	0.78	5.11	23.6	3537
Emerge 610	108	26000	64.1	28.2	9.0	8.7	20.1	31.1	2.32	56.7	2.4	38.5	76.4	0.79	4.80	21.9	3459
Emerge 542	101	26000	59.4	27.2	8.7	7.9	21.2	35.2	2.26	59.9	1.5	38.0	75.3	0.78	4.96	21.2	3183
Emerge 731	112	26000	65.8	31.7	10.2	7.9	26.0	38.4	2.82	57.5	2.5	30.0	76.1	0.75	4.78	21.7	3181
Emerge 600	107	26000	60.4	31.1	10.0	8.0	22.7	36.5	2.65	57.4	1.6	35.8	73.6	0.77	4.87	20.1	3141
Emerge 580	104	26000	53.2	26.2	8.4	7.6	25.1	40.2	2.84	56.9	1.6	34.0	78.6	0.76	5.08	23.4	2809
Averages		26000	62.7	28.1	9.0	7.8	22.3	35.3	2.68	56.0	1.8	36.5	73.1	0.77	4.89	19.9	3200

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Company and Milk per Ton

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Dayton, VA

Planted: 6/3/14 Harvested: 9/16/14

Milk per Ton Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NDF Kd **	% NDF Kd	% Starch Kd	% Milk per Ton
MC5660	106	26000	66.4	32.8	10.5	7.0	19.9	30.9	2.28	56.4	1.8	41.6	74.7	0.79	5.04	20.8	3567
MC5800	108	26000	65.5	25.8	8.3	7.8	20.5	32.5	2.61	56.6	1.4	40.5	72.1	0.78	5.11	19.3	3498
MC535	107	26000	67.0	30.5	9.7	7.5	21.9	34.0	2.66	55.1	1.9	37.2	73.4	0.77	4.91	20.0	3475
MC6150	111	26000	69.4	34.2	10.9	7.8	23.5	37.2	2.86	56.1	2.1	33.0	72.4	0.75	5.26	19.5	3404
MC5250	102	26000	67.0	26.5	8.5	7.5	22.8	34.7	2.69	55.2	1.7	35.8	75.0	0.76		21.0	3379
MC5300	103	26000	67.0	28.0	9.0	7.5	23.6	36.0	2.78	55.1	2.1	33.8	73.8	0.75	4.72	20.3	3333
MC530	105	26000	62.3	30.0	9.6	6.9	19.1	32.0	2.35	55.5	1.6	42.9	72.4	0.79	4.77	19.5	3329
EXP-K	110	26000	62.9	26.0	8.3	8.0	21.3	33.8	2.60	58.6	1.9	36.6	69.2	0.77	5.05	17.8	3329
MC590	116	26000	67.6	32.0	10.2	7.3	24.8	39.0	2.91	57.2	1.9	31.0	73.1	0.75	5.03	19.8	3327
MC6470	114	26000	67.0	27.5	8.8	8.0	24.0	37.2	2.99	54.0	1.8	32.0	73.2	0.76	4.56	19.9	3287
MC6580	115	26000	65.0	27.1	8.7	7.6	23.8	38.7	2.80	57.6	1.7	31.9	72.1	0.75	5.14	19.3	3246
MC4880	98	26000	60.7	26.5	8.5	7.5	20.0	32.3	2.58	54.4	1.2	41.7	74.0	0.79	4.68	20.4	3193
EXP-L	112	26000	67.1	31.1	9.9	7.2	26.1	42.1	3.20	53.6	1.8	29.1	75.8	0.74	4.77	21.5	3181
MC6750	117	26000	65.9	31.5	10.1	7.9	24.5	37.9	2.94	57.8	2.4	29.6	70.0	0.75	5.28	18.2	3157
MC6890	118	26000	66.9	27.8	8.9	7.7	26.0	39.5	2.99	55.3	2.8	28.8	71.5	0.73	4.95	19.0	3069
MC5370	103	26000	57.9	33.7	10.8	7.2	19.9	32.1	2.43	56.1	1.8	40.8	74.0	0.79	4.88	20.4	3055
MC5090	100	26000	61.0	19.1	6.1	7.3	23.1	37.2	3.02	52.7	1.4	38.9	71.6	0.76	4.97	19.0	3034
MC4540	95	26000	53.8	25.3	8.1	8.0	21.4	35.3	2.51	60.9	0.7	38.4	66.9	0.78	4.86	16.7	2943
MC4560	95	26000	55.3	22.9	7.3	8.8	19.7	32.4	2.50	57.3	1.1	40.9	68.7	0.78	5.11	17.5	2863
MC4210	92	26000	54.3	22.9	7.3	8.4	16.7	27.3	2.32	51.3	1.8	47.7	73.7	0.80	4.61	20.2	2843
MC4050	90	26000	50.5	26.4	8.4	7.8	19.3	31.2	2.64	50.2	1.6	44.2	69.7	0.79	4.17	18.0	2778
EXP-F	95	26000	56.1	24.5	7.9	7.5	22.9	37.1	2.91	54.1	1.2	36.9	69.8	0.75	4.67	18.1	2759
MC6060	110	26000	60.2	23.5	7.5	7.7	27.8	42.9	3.62	50.7	1.0	30.8	69.0	0.71	4.49	17.7	2691
Averages		26000	62.5	27.6	8.8	7.6	22.3	35.4	2.75	55.3	1.7	36.7	72.0	0.76	4.87	19.3	3163

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Red Font Indicates Best Column Value

Note - * Hybrids have quality data only from 2014

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Howard, PA

Planted: 5/13/14 Harvested: 9/22/14

Maturity Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
EXP-A	80	29000	61.5	23.5	7.5	8.3	17.6	30.0	2.88	51.0	0.4	46.7	63.8	0.81	4.25	15.3	3326
MCT3221	82	29000	60.6	25.0	8.0	8.7	26.5	43.1	4.06	46.9	1.3	29.6	63.9	0.73	4.05	15.4	2794
EXP-B	87	29000	59.7	35.6	11.4	7.9	20.7	34.4	2.83	50.8	1.3	41.8	72.1	0.78	4.69	19.3	3002
MC480	87	29000	60.6	30.0	9.6	7.6	22.5	39.0	2.88	57.8	1.4	35.6	69.9	0.77	5.03	18.1	3195
EXP-C	88	29000	63.8	23.2	7.4	8.7	29.9	48.2	4.23	48.9	1.6	23.7	63.4	0.71		15.2	2827
MC4050	90	29000	67.2	26.2	8.4	8.9	28.8	44.4	3.91	49.8	2.8	24.6	69.7	0.71	4.79	18.1	2904
EXP-E	92	29000	65.3	24.8	8.0	7.9	27.5	42.9	3.39	54.9	0.8	34.3	67.5	0.74	4.97	17.0	3209
MC4210	92	29000	62.9	23.2	7.4	7.6	27.0	42.3	3.57	51.0	1.2	33.5	70.1	0.74	4.59	18.3	3016
EXP-F	95	29000	67.4	22.7	7.3	11.3	27.2	44.2	4.13	49.0	0.7	30.0	70.1	0.73	3.91	18.3	3067
MC4560	95	29000	60.8	31.3	10.0	8.5	20.2	32.3	2.51	56.5	1.2	43.5	69.5	0.80	5.45	17.9	3284
MC4540	95	29000	64.1	25.0	8.0	7.5	21.4	34.0	2.28	61.8	0.9	44.1	71.1	0.80	5.37	18.7	3555
MC4880	98	29000	62.3	34.5	11.0	8.3	22.4	35.7	2.78	57.0	0.9	39.5	68.4	0.79	5.11	17.4	3332
EXP-G	98	29000	61.0	30.7	9.8	8.4	23.4	37.6	2.41	62.9	0.9	38.7	70.6	0.78	5.62	18.5	3291
MC5250	102	29000	64.4	34.0	10.9	8.5	24.2	38.0	2.74	56.4	1.2	36.3	73.7	0.77	5.15	20.2	3315
MCEXP-H	103	29000	65.6	27.4	8.8	8.8	27.9	43.9	3.51	56.3	1.2	29.2	67.8	0.74	5.34	17.1	3231
MC5370	103	29000	61.2	36.1	11.5	7.6	23.7	37.2	2.80	55.8	1.6	37.2	73.1	0.77	5.00	19.9	3170
MC5451	104	29000	67.6	27.0	8.6	8.0	26.2	41.2	3.24	53.7	1.1	33.6	70.8	0.75	4.78	18.6	3337
EXP-I	105	29000	66.9	30.1	9.6	9.2	21.7	35.6	2.69	58.9	1.2	38.0	68.7	0.79	5.36	17.3	3640
MC5660	106	29000	66.6	39.2	12.5	8.2	20.7	32.6	2.55	55.6	1.9	40.9	73.1	0.79	5.22	19.9	3600
MC535	107	29000	67.9	34.2	11.0	8.0	29.4	45.9	3.84	50.7	1.1	28.1	71.4	0.73	4.43	18.9	3104
EXP-J	109	29000	64.1	37.0	11.8	9.8	21.4	34.6	2.86	57.5	0.9	39.3	67.7	0.79	5.22	17.1	3490
EXP-K	110	29000	64.3	33.4	10.7	8.4	20.4	33.1	2.34	60.3	1.1	41.4	74.0	0.80	5.09	20.4	3598
MC6150	111	29000	64.9	30.3	9.7	7.6	18.4	30.4	1.87	59.7	1.2	46.6	76.8	0.82	5.24	22.1	3704
EXP-L	112	29000	66.1	37.9	12.1	8.5	22.2	36.2	2.57	59.0	1.4	38.1	72.9	0.79	5.38	19.8	3577
MC6361	113	29000	68.8	31.4	10.0	8.5	26.7	41.9	3.34	56.0	2.0	27.5	69.5	0.74	5.22	17.9	3255
MC6470	114	29000	68.8	31.4	10.0	8.5	23.5	37.4	2.76	55.4	1.2	36.3	76.3	0.78	4.88	21.8	3535
MC6580	115	29000	66.5	30.8	9.9	7.1	25.8	39.9	3.33	49.7	1.3	37.1	77.0	0.76	4.47	22.3	3252
MC590	116	29000	66.6	33.1	10.6	7.4	21.0	33.5	2.40	56.6	1.6	43.5	76.4	0.80	4.97	21.9	3659
EXP-M	117	29000	64.2	28.4	9.1	7.8	26.7	41.6	3.59	48.9	1.3	35.7	74.9	0.75	4.75	20.9	3053
MC6750	117	29000	63.5	31.9	10.2	7.2	24.7	39.6	3.08	53.6	1.5	36.2	78.7	0.76	4.96	23.5	3207
EXP-N	118	29000	67.5	26.1	8.3	7.1	26.1	41.2	3.42	51.9	1.0	35.4	76.1	0.75	4.86	21.7	3312
MC6890	118	29000	64.6	32.7	10.5	7.8	27.0	42.6	3.46	55.5	1.4	32.5	69.6	0.74	5.24	18.0	3155
EXP-O	118	29000	69.3	27.3	8.7	7.7	29.3	44.5	3.86	49.8	1.4	30.8	73.8	0.73	4.56	20.3	3117
Averages		29000	64.7	30.1	9.6	8.2	24.3	38.8	3.09	54.5	1.3	36.0	71.3	0.76	4.94	19.0	3276

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Maturity

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Howard, PA

Planted: 5/13/14 Harvested: 9/22/14

Yield Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC5660	106	29000	66.6	39.2	12.5	8.2	20.7	32.6	2.55	55.6	1.9	40.9	73.1	0.79	5.22	19.9	3600
EXP-L	112	29000	66.1	37.9	12.1	8.5	22.2	36.2	2.57	59.0	1.4	38.1	72.9	0.79	5.38	19.8	3577
EXP-J	109	29000	64.1	37.0	11.8	9.8	21.4	34.6	2.86	57.5	0.9	39.3	67.7	0.79	5.22	17.1	3490
MC5370	103	29000	61.2	36.1	11.5	7.6	23.7	37.2	2.80	55.8	1.6	37.2	73.1	0.77	5.00	19.9	3170
EXP-B	87	29000	59.7	35.6	11.4	7.9	20.7	34.4	2.83	50.8	1.3	41.8	72.1	0.78		19.3	3002
MC4880	98	29000	62.3	34.5	11.0	8.3	22.4	35.7	2.78	57.0	0.9	39.5	68.4	0.79	5.11	17.4	3332
MC535	107	29000	67.9	34.2	11.0	8.0	29.4	45.9	3.84	50.7	1.1	28.1	71.4	0.73	4.43	18.9	3104
MC5250	102	29000	64.4	34.0	10.9	8.5	24.2	38.0	2.74	56.4	1.2	36.3	73.7	0.77	5.15	20.2	3315
EXP-K	110	29000	64.3	33.4	10.7	8.4	20.4	33.1	2.34	60.3	1.1	41.4	74.0	0.80	5.09	20.4	3598
MC590	116	29000	66.6	33.1	10.6	7.4	21.0	33.5	2.40	56.6	1.6	43.5	76.4	0.80	4.97	21.9	3659
MC6890	118	29000	64.6	32.7	10.5	7.8	27.0	42.6	3.46	55.5	1.4	32.5	69.6	0.74	5.24	18.0	3155
MC6750	117	29000	63.5	31.9	10.2	7.2	24.7	39.6	3.08	53.6	1.5	36.2	78.7	0.76	4.96	23.5	3207
MC6361	113	29000	68.8	31.4	10.0	8.5	26.7	41.9	3.34	56.0	2.0	27.5	69.5	0.74	5.22	17.9	3255
MC6470	114	29000	68.8	31.4	10.0	8.5	23.5	37.4	2.76	55.4	1.2	36.3	76.3	0.78	4.88	21.8	3535
MC4560	95	29000	60.8	31.3	10.0	8.5	20.2	32.3	2.51	56.5	1.2	43.5	69.5	0.80	5.45	17.9	3284
MC6580	115	29000	66.5	30.8	9.9	7.1	25.8	39.9	3.33	49.7	1.3	37.1	77.0	0.76	4.47	22.3	3252
EXP-G	98	29000	61.0	30.7	9.8	8.4	23.4	37.6	2.41	62.9	0.9	38.7	70.6	0.78	5.62	18.5	3291
MC6150	111	29000	64.9	30.3	9.7	7.6	18.4	30.4	1.87	59.7	1.2	46.6	76.8	0.82	5.24	22.1	3704
EXP-I	105	29000	66.9	30.1	9.6	9.2	21.7	35.6	2.69	58.9	1.2	38.0	68.7	0.79	5.36	17.3	3640
MC480	87	29000	60.6	30.0	9.6	7.6	22.5	39.0	2.88	57.8	1.4	35.6	69.9	0.77	5.03	18.1	3195
EXP-M	117	29000	64.2	28.4	9.1	7.8	26.7	41.6	3.59	48.9	1.3	35.7	74.9	0.75	4.75	20.9	3053
MCEXP-H	103	29000	65.6	27.4	8.8	8.8	27.9	43.9	3.51	56.3	1.2	29.2	67.8	0.74	5.34	17.1	3231
EXP-O	118	29000	69.3	27.3	8.7	7.7	29.3	44.5	3.86	49.8	1.4	30.8	73.8	0.73	4.56	20.3	3117
MC5451	104	29000	67.6	27.0	8.6	8.0	26.2	41.2	3.24	53.7	1.1	33.6	70.8	0.75	4.78	18.6	3337
MC4050	90	29000	67.2	26.2	8.4	8.9	28.8	44.4	3.91	49.8	2.8	24.6	69.7	0.71	4.79	18.1	2904
EXP-N	118	29000	67.5	26.1	8.3	7.1	26.1	41.2	3.42	51.9	1.0	35.4	76.1	0.75	4.86	21.7	3312
MCT3221	82	29000	60.6	25.0	8.0	8.7	26.5	43.1	4.06	46.9	1.3	29.6	63.9	0.73	4.05	15.4	2794
MC4540	95	29000	64.1	25.0	8.0	7.5	21.4	34.0	2.28	61.8	0.9	44.1	71.1	0.80	5.37	18.7	3555
EXP-E	92	29000	65.3	24.8	8.0	7.9	27.5	42.9	3.39	54.9	0.8	34.3	67.5	0.74	4.97	17.0	3209
EXP-A	80	29000	61.5	23.5	7.5	8.3	17.6	30.0	2.88	51.0	0.4	46.7	63.8	0.81	4.25	15.3	3326
MC4210	92	29000	62.9	23.2	7.4	7.6	27.0	42.3	3.57	51.0	1.2	33.5	70.1	0.74	4.59	18.3	3016
EXP-C	88	29000	63.8	23.2	7.4	8.7	29.9	48.2	4.23	48.9	1.6	23.7	63.4	0.71	4.18	15.2	2827
EXP-F	95	29000	67.4	22.7	7.3	11.3	27.2	44.2	4.13	49.0	0.7	30.0	70.1	0.73	3.91	18.3	3067
Averages		29000	64.7	30.1	9.6	8.2	24.3	38.8	3.09	54.5	1.3	36.0	71.3	0.76	4.92	19.0	3276

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Howard, PA

Planted: 5/13/14 Harvested: 9/22/14

Milk per Ton Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC6150	111	29000	64.9	30.3	9.7	7.6	18.4	30.4	1.87	59.7	1.2	46.6	76.8	0.82	5.24	22.1	3704
MC590	116	29000	66.6	33.1	10.6	7.4	21.0	33.5	2.40	56.6	1.6	43.5	76.4	0.80	4.97	21.9	3659
EXP-I	105	29000	66.9	30.1	9.6	9.2	21.7	35.6	2.69	58.9	1.2	38.0	68.7	0.79	5.36	17.3	3640
MC5660	106	29000	66.6	39.2	12.5	8.2	20.7	32.6	2.55	55.6	1.9	40.9	73.1	0.79	5.22	19.9	3600
EXP-K	110	29000	64.3	33.4	10.7	8.4	20.4	33.1	2.34	60.3	1.1	41.4	74.0	0.80		20.4	3598
EXP-L	112	29000	66.1	37.9	12.1	8.5	22.2	36.2	2.57	59.0	1.4	38.1	72.9	0.79	5.38	19.8	3577
MC4540	95	29000	64.1	25.0	8.0	7.5	21.4	34.0	2.28	61.8	0.9	44.1	71.1	0.80	5.37	18.7	3555
MC6470	114	29000	68.8	31.4	10.0	8.5	23.5	37.4	2.76	55.4	1.2	36.3	76.3	0.78	4.88	21.8	3535
EXP-J	109	29000	64.1	37.0	11.8	9.8	21.4	34.6	2.86	57.5	0.9	39.3	67.7	0.79	5.22	17.1	3490
MC5451	104	29000	67.6	27.0	8.6	8.0	26.2	41.2	3.24	53.7	1.1	33.6	70.8	0.75	4.78	18.6	3337
MC4880	98	29000	62.3	34.5	11.0	8.3	22.4	35.7	2.78	57.0	0.9	39.5	68.4	0.79	5.11	17.4	3332
EXP-A	80	29000	61.5	23.5	7.5	8.3	17.6	30.0	2.88	51.0	0.4	46.7	63.8	0.81	4.25	15.3	3326
MC5250	102	29000	64.4	34.0	10.9	8.5	24.2	38.0	2.74	56.4	1.2	36.3	73.7	0.77	5.15	20.2	3315
EXP-N	118	29000	67.5	26.1	8.3	7.1	26.1	41.2	3.42	51.9	1.0	35.4	76.1	0.75	4.86	21.7	3312
EXP-G	98	29000	61.0	30.7	9.8	8.4	23.4	37.6	2.41	62.9	0.9	38.7	70.6	0.78	5.62	18.5	3291
MC4560	95	29000	60.8	31.3	10.0	8.5	20.2	32.3	2.51	56.5	1.2	43.5	69.5	0.80	5.45	17.9	3284
MC6361	113	29000	68.8	31.4	10.0	8.5	26.7	41.9	3.34	56.0	2.0	27.5	69.5	0.74	5.22	17.9	3255
MC6580	115	29000	66.5	30.8	9.9	7.1	25.8	39.9	3.33	49.7	1.3	37.1	77.0	0.76	4.47	22.3	3252
MCEXP-H	103	29000	65.6	27.4	8.8	8.8	27.9	43.9	3.51	56.3	1.2	29.2	67.8	0.74	5.34	17.1	3231
EXP-E	92	29000	65.3	24.8	8.0	7.9	27.5	42.9	3.39	54.9	0.8	34.3	67.5	0.74	4.97	17.0	3209
MC6750	117	29000	63.5	31.9	10.2	7.2	24.7	39.6	3.08	53.6	1.5	36.2	78.7	0.76	4.96	23.5	3207
MC480	87	29000	60.6	30.0	9.6	7.6	22.5	39.0	2.88	57.8	1.4	35.6	69.9	0.77	5.03	18.1	3195
MC5370	103	29000	61.2	36.1	11.5	7.6	23.7	37.2	2.80	55.8	1.6	37.2	73.1	0.77	5.00	19.9	3170
MC6890	118	29000	64.6	32.7	10.5	7.8	27.0	42.6	3.46	55.5	1.4	32.5	69.6	0.74	5.24	18.0	3155
EXP-O	118	29000	69.3	27.3	8.7	7.7	29.3	44.5	3.86	49.8	1.4	30.8	73.8	0.73	4.56	20.3	3117
MC535	107	29000	67.9	34.2	11.0	8.0	29.4	45.9	3.84	50.7	1.1	28.1	71.4	0.73	4.43	18.9	3104
EXP-F	95	29000	67.4	22.7	7.3	11.3	27.2	44.2	4.13	49.0	0.7	30.0	70.1	0.73	3.91	18.3	3067
674L	117	29000	64.2	28.4	9.1	7.8	26.7	41.6	3.59	48.9	1.3	35.7	74.9	0.75	4.75	20.9	3053
MC4210	92	29000	62.9	23.2	7.4	7.6	27.0	42.3	3.57	51.0	1.2	33.5	70.1	0.74	4.59	18.3	3016
EXP-B	87	29000	59.7	35.6	11.4	7.9	20.7	34.4	2.83	50.8	1.3	41.8	72.1	0.78	4.69	19.3	3002
MC4050	90	29000	67.2	26.2	8.4	8.9	28.8	44.4	3.91	49.8	2.8	24.6	69.7	0.71	4.79	18.1	2904
EXP-C	88	29000	63.8	23.2	7.4	8.7	29.9	48.2	4.23	48.9	1.6	23.7	63.4	0.71	4.18	15.2	2827
MCT3221	82	29000	60.6	25.0	8.0	8.7	26.5	43.1	4.06	46.9	1.3	29.6	63.9	0.73	4.05	15.4	2794
Averages		29000	64.7	30.1	9.6	8.2	24.3	38.8	3.09	54.5	1.3	36.0	71.3	0.76	4.91	19.0	3276

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Milk per Ton

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial
Tionesta, PA
Planted: 5/12/14 Harvested: 9/23/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
EXP-A	80	29000	61.9	21.5	6.9	8.0	22.9	38.1	3.19	54.6	1.5	34.8	63.6	0.77	4.49	15.3	3188
MCT3221	82	29000	67.6	25.8	8.3	6.5	26.7	45.1	3.61	51.5	0.8	35.1	70.8	0.74	4.21	18.6	3232
EXP-B	87	29000	69.5	21.6	6.9	7.4	26.7	44.6	3.50	51.4	1.4	27.7	71.4	0.74	4.39	18.9	3166
MCT480	87	29000	69.9	27.8	8.9	8.4	22.9	38.3	2.96	58.8	1.2	34.6	68.4	0.77	5.16	17.4	3588
EXP-C	88	29000	70.3	22.2	7.1	7.5	26.0	44.0	3.46	53.9	1.2	29.8	66.8	0.74		16.6	3273
MCT4054	90	29000	70.3	32.4	10.4	7.4	25.3	40.9	3.21	53.2	2.4	29.0	72.6	0.74	5.09	19.6	3140
EXP-E	92	29000	68.1	28.8	9.2	7.8	24.2	39.9	3.06	57.1	1.3	33.5	67.5	0.77	4.59	17.0	3501
MCT4211	92	29000	68.6	26.8	8.6	7.1	26.8	44.0	3.38	53.6	1.4	29.0	77.9	0.74	4.97	22.9	3239
P9329	93	29000	67.5	24.7	7.9	6.8	25.2	40.9	3.24	52.7	1.1	33.0	74.3	0.75	4.69	20.6	3343
EXP-F	95	29000	67.5	26.4	8.4	7.2	23.2	37.9	3.12	53.8	1.3	35.3	71.5	0.76	4.52	19.0	3421
MCT4564	95	29000	67.0	29.4	9.4	10.2	22.4	37.8	3.34	52.2	1.6	30.4	68.4	0.76	4.60	17.4	3307
MC4540	95	29000	66.1	27.2	8.7	8.9	21.3	35.2	2.82	57.3	1.1	35.6	69.5	0.77	5.00	18.0	3482
P9675AMXT	96	29000	67.1	24.3	7.8	7.0	21.0	34.6	2.66	54.7	1.1	40.6	71.3	0.78	4.70	18.9	3549
MCT4884	97	29000	66.8	27.0	8.6	7.2	24.7	41.3	3.06	57.4	1.6	30.7	72.0	0.75	5.25	19.2	3328
P9789AMXT	98	29000	67.6	22.9	7.3	7.1	29.6	48.7	3.87	52.7	1.6	22.9	71.0	0.71	4.86	18.7	2950
EXP-G	98	29000	67.7	27.9	8.9	6.9	21.7	35.0	2.52	59.7	1.1	37.5	71.3	0.78	5.16	18.9	3639
P9117AMX	99	29000	66.1	22.9	7.3	7.4	21.7	35.4	2.79	55.9	2.0	36.1	72.7	0.78	4.93	19.6	3474
P0094AMX	100	29000	69.3	25.9	8.3	6.2	25.3	42.0	3.13	54.7	1.6	30.1	74.9	0.75	4.61	20.9	3207
MC5250	102	29000	70.6	33.0	10.6	7.3	24.5	39.3	2.98	54.2	1.7	33.2	75.7	0.76	4.60	21.5	3391
P0210R	102	29000	68.3	34.9	11.2	6.5	25.4	40.0	2.88	57.2	1.5	36.5	75.9	0.77	4.91	21.6	3494
EXP-H	103	29000	66.4	27.6	8.8	6.4	24.7	40.1	2.89	58.1	1.5	35.3	72.5	0.76	4.99	19.5	3448
MCT5371	103	29000	69.4	24.7	7.9	5.9	29.7	47.1	3.65	51.9	1.8	27.5	76.2	0.73	4.56	21.8	3099
MC5451	104	29000	67.8	32.1	10.3	6.8	25.2	40.7	2.82	57.7	1.5	35.6	74.8	0.76	4.91	20.9	3478
EXP-I	105	29000	69.6	26.3	8.4	7.0	28.4	46.0	3.38	56.8	1.1	29.1	72.7	0.74	5.07	19.6	3305
MCT5663	106	29000	70.1	26.3	8.4	6.4	28.7	45.0	3.58	50.2	1.6	31.2	77.9	0.73	4.63	22.9	3152
MC535	107	29000	70.8	28.0	9.0	7.2	26.8	42.9	3.48	53.1	1.2	32.2	74.3	0.75	4.55	20.6	3307
EXP-J	109	29000	70.0	24.4	7.8	7.1	26.1	41.7	3.55	50.0	1.1	35.8	74.7	0.76	4.40	20.8	3312
P0970AMXT	109	29000	68.9	24.1	7.7	6.7	26.1	41.6	3.08	56.6	1.8	32.4	74.3	0.76	4.92	20.6	3439
Averages		29000	68.2	26.7	8.5	7.2	25.1	41.0	3.19	54.7	1.4	32.7	72.3	0.75	4.77	19.5	3338

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Maturity

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial
Tionesta, PA
Planted: 5/12/14 Harvested: 9/23/14



Yield Sort

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NDF Kd **	% NDF Kd	% Starch Kd	% Milk per Ton
P0210R	102	29000	68.3	34.9	11.2	6.5	25.4	40.0	2.88	57.2	1.5	36.5	75.9	0.77	4.91	21.6	3494
MC5250	102	29000	70.6	33.0	10.6	7.3	24.5	39.3	2.98	54.2	1.7	33.2	75.7	0.76	4.60	21.5	3391
MCT4054	90	29000	70.3	32.4	10.4	7.4	25.3	40.9	3.21	53.2	2.4	29.0	72.6	0.74	5.09	19.6	3140
MC5451	104	29000	67.8	32.1	10.3	6.8	25.2	40.7	2.82	57.7	1.5	35.6	74.8	0.76	4.91	20.9	3478
MCT4564	95	29000	67.0	29.4	9.4	10.2	22.4	37.8	3.34	52.2	1.6	30.4	68.4	0.76		17.4	3307
EXP-E	92	29000	68.1	28.8	9.2	7.8	24.2	39.9	3.06	57.1	1.3	33.5	67.5	0.77	4.59	17.0	3501
MC535	107	29000	70.8	28.0	9.0	7.2	26.8	42.9	3.48	53.1	1.2	32.2	74.3	0.75	4.55	20.6	3307
EXP-G	98	29000	67.7	27.9	8.9	6.9	21.7	35.0	2.52	59.7	1.1	37.5	71.3	0.78	5.16	18.9	3639
MCT480	87	29000	69.9	27.8	8.9	8.4	22.9	38.3	2.96	58.8	1.2	34.6	68.4	0.77	5.16	17.4	3588
EXP-H	103	29000	66.4	27.6	8.8	6.4	24.7	40.1	2.89	58.1	1.5	35.3	72.5	0.76	4.99	19.5	3448
MC4540	95	29000	66.1	27.2	8.7	8.9	21.3	35.2	2.82	57.3	1.1	35.6	69.5	0.77	5.00	18.0	3482
MCT4884	97	29000	66.8	27.0	8.6	7.2	24.7	41.3	3.06	57.4	1.6	30.7	72.0	0.75	5.25	19.2	3328
MCT4211	92	29000	68.6	26.8	8.6	7.1	26.8	44.0	3.38	53.6	1.4	29.0	77.9	0.74	4.97	22.9	3239
EXP-F	95	29000	67.5	26.4	8.4	7.2	23.2	37.9	3.12	53.8	1.3	35.3	71.5	0.76	4.52	19.0	3421
MCT5663	106	29000	70.1	26.3	8.4	6.4	28.7	45.0	3.58	50.2	1.6	31.2	77.9	0.73	4.63	22.9	3152
EXP-I	105	29000	69.6	26.3	8.4	7.0	28.4	46.0	3.38	56.8	1.1	29.1	72.7	0.74	5.07	19.6	3305
P0094AMX	100	29000	69.3	25.9	8.3	6.2	25.3	42.0	3.13	54.7	1.6	30.1	74.9	0.75	4.61	20.9	3207
MCT3221	82	29000	67.6	25.8	8.3	6.5	26.7	45.1	3.61	51.5	0.8	35.1	70.8	0.74	4.21	18.6	3232
MCT5371	103	29000	69.4	24.7	7.9	5.9	29.7	47.1	3.65	51.9	1.8	27.5	76.2	0.73	4.56	21.8	3099
P9329	93	29000	67.5	24.7	7.9	6.8	25.2	40.9	3.24	52.7	1.1	33.0	74.3	0.75	4.69	20.6	3343
EXP-J	109	29000	70.0	24.4	7.8	7.1	26.1	41.7	3.55	50.0	1.1	35.8	74.7	0.76	4.40	20.8	3312
P9675AMXT	96	29000	67.1	24.3	7.8	7.0	21.0	34.6	2.66	54.7	1.1	40.6	71.3	0.78	4.70	18.9	3549
P0970AMXT	109	29000	68.9	24.1	7.7	6.7	26.1	41.6	3.08	56.6	1.8	32.4	74.3	0.76	4.92	20.6	3439
P9789AMXT	98	29000	67.6	22.9	7.3	7.1	29.6	48.7	3.87	52.7	1.6	22.9	71.0	0.71	4.86	18.7	2950
P9117AMX	99	29000	66.1	22.9	7.3	7.4	21.7	35.4	2.79	55.9	2.0	36.1	72.7	0.78	4.93	19.6	3474
EXP-C	88	29000	70.3	22.2	7.1	7.5	26.0	44.0	3.46	53.9	1.2	29.8	66.8	0.74	4.63	16.6	3273
EXP-B	87	29000	69.5	21.6	6.9	7.4	26.7	44.6	3.50	51.4	1.4	27.7	71.4	0.74	4.39	18.9	3166
EXP-A	80	29000	61.9	21.5	6.9	8.0	22.9	38.1	3.19	54.6	1.5	34.8	63.6	0.77	4.49	15.3	3188
Averages		29000	68.2	26.7	8.5	7.2	25.1	41.0	3.19	54.7	1.4	32.7	72.3	0.75	4.77	19.5	3338

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Maturity

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial
Tionesta, PA
Planted: 5/12/14 Harvested: 9/23/14



Milk per Ton Sort

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
EXP-G	98	29000	67.7	27.9	8.9	6.9	21.7	35.0	2.52	59.7	1.1	37.5	71.3	0.78	5.16	18.9	3639
MCT480	87	29000	69.9	27.8	8.9	8.4	22.9	38.3	2.96	58.8	1.2	34.6	68.4	0.77	5.16	17.4	3588
P9675AMXT	96	29000	67.1	24.3	7.8	7.0	21.0	34.6	2.66	54.7	1.1	40.6	71.3	0.78	4.70	18.9	3549
EXP-E	92	29000	68.1	28.8	9.2	7.8	24.2	39.9	3.06	57.1	1.3	33.5	67.5	0.77	4.59	17.0	3501
P0210R	102	29000	68.3	34.9	11.2	6.5	25.4	40.0	2.88	57.2	1.5	36.5	75.9	0.77		21.6	3494
MC4540	95	29000	66.1	27.2	8.7	8.9	21.3	35.2	2.82	57.3	1.1	35.6	69.5	0.77	5.00	18.0	3482
MC5451	104	29000	67.8	32.1	10.3	6.8	25.2	40.7	2.82	57.7	1.5	35.6	74.8	0.76	4.91	20.9	3478
P9117AMX	99	29000	66.1	22.9	7.3	7.4	21.7	35.4	2.79	55.9	2.0	36.1	72.7	0.78	4.93	19.6	3474
EXP-H	103	29000	66.4	27.6	8.8	6.4	24.7	40.1	2.89	58.1	1.5	35.3	72.5	0.76	4.99	19.5	3448
P0970AMXT	109	29000	68.9	24.1	7.7	6.7	26.1	41.6	3.08	56.6	1.8	32.4	74.3	0.76	4.92	20.6	3439
EXP-F	95	29000	67.5	26.4	8.4	7.2	23.2	37.9	3.12	53.8	1.3	35.3	71.5	0.76	4.52	19.0	3421
MC5250	102	29000	70.6	33.0	10.6	7.3	24.5	39.3	2.98	54.2	1.7	33.2	75.7	0.76	4.60	21.5	3391
P9329	93	29000	67.5	24.7	7.9	6.8	25.2	40.9	3.24	52.7	1.1	33.0	74.3	0.75	4.69	20.6	3343
MCT4884	97	29000	66.8	27.0	8.6	7.2	24.7	41.3	3.06	57.4	1.6	30.7	72.0	0.75	5.25	19.2	3328
EXP-J	109	29000	70.0	24.4	7.8	7.1	26.1	41.7	3.55	50.0	1.1	35.8	74.7	0.76	4.40	20.8	3312
MCT4564	95	29000	67.0	29.4	9.4	10.2	22.4	37.8	3.34	52.2	1.6	30.4	68.4	0.76	4.60	17.4	3307
MC535	107	29000	70.8	28.0	9.0	7.2	26.8	42.9	3.48	53.1	1.2	32.2	74.3	0.75	4.55	20.6	3307
EXP-I	105	29000	69.6	26.3	8.4	7.0	28.4	46.0	3.38	56.8	1.1	29.1	72.7	0.74	5.07	19.6	3305
EXP-C	88	29000	70.3	22.2	7.1	7.5	26.0	44.0	3.46	53.9	1.2	29.8	66.8	0.74	4.63	16.6	3273
MCT4211	92	29000	68.6	26.8	8.6	7.1	26.8	44.0	3.38	53.6	1.4	29.0	77.9	0.74	4.97	22.9	3239
MCT3221	82	29000	67.6	25.8	8.3	6.5	26.7	45.1	3.61	51.5	0.8	35.1	70.8	0.74	4.21	18.6	3232
P0094AMX	100	29000	69.3	25.9	8.3	6.2	25.3	42.0	3.13	54.7	1.6	30.1	74.9	0.75	4.61	20.9	3207
EXP-A	80	29000	61.9	21.5	6.9	8.0	22.9	38.1	3.19	54.6	1.5	34.8	63.6	0.77	4.49	15.3	3188
EXP-B	87	29000	69.5	21.6	6.9	7.4	26.7	44.6	3.50	51.4	1.4	27.7	71.4	0.74	4.39	18.9	3166
MCT5663	106	29000	70.1	26.3	8.4	6.4	28.7	45.0	3.58	50.2	1.6	31.2	77.9	0.73	4.63	22.9	3152
MCT4054	90	29000	70.3	32.4	10.4	7.4	25.3	40.9	3.21	53.2	2.4	29.0	72.6	0.74	5.09	19.6	3140
MCT5371	103	29000	69.4	24.7	7.9	5.9	29.7	47.1	3.65	51.9	1.8	27.5	76.2	0.73	4.56	21.8	3099
P9789AMXT	98	29000	67.6	22.9	7.3	7.1	29.6	48.7	3.87	52.7	1.6	22.9	71.0	0.71	4.86	18.7	2950
Averages		29000	68.2	26.7	8.5	7.2	25.1	41.0	3.19	54.7	1.4	32.7	72.3	0.75	4.76	19.5	3338

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Maturity

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Replicated Silage Trial

Williamsburg, PA

Trial: 102 to 113 Days

Planted: 5/19/14 Harvested: 9/24/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	Statistical Difference	Ear Height (Inches)	Plant Height (Inches)	Milk Line (50 = 50% Milk Line) (0 = Black Layer)
EXP-K	110	33500	57.6	41.6	13.3	a	-	-	-
MC5250	102	33000	61.2	32.7	10.5	b	-	-	-
EXP-I	105	32167	53.0	30.4	9.7	bc	-	-	-
MC535	107	31667	63.0	30.3	9.7	bc	-	-	-
MC5660	106	29333	68.9	29.4	9.4	c	-	-	-
EXP-J	109	32833	66.0	29.2	9.3	cd	-	-	-
MC5370	103	29500	60.9	28.8	9.2	cd	-	-	-
MC6150	111	33500	70.2	26.8	8.6	de	-	-	-
EXP-H	103	33167	60.6	26.3	8.4	e	-	-	-
EXP-L	112	27000	64.6	26.0	8.3	e	-	-	-
MCT5451	104	33000	65.7	25.4	8.1	e	-	-	-
MCT6361	113	31333	71.1	24.9	8.0	e	-	-	-
Averages		31667	63.6	29.3	9.4		-	-	-

LSD(.05)

2.4

cv = 4.9

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
EXP-K	110	33500	57.6	41.6	13.3	7.9	17.1	29.9	2.06	59.7	0.9	45.7	78.6	0.82	5.17	23.4	3265
MC5250	102	33000	61.2	32.7	10.5	6.9	20.0	32.8	2.28	54.7	0.8	45.5	78.1	0.80	4.88	23.1	3253
EXP-I	105	32166.7	53.0	30.4	9.7	7.8	15.8	28.7	1.80	59.2	0.7	49.1	78.0	0.83	4.97	22.9	3094
MC535	107	31666.7	63.0	30.3	9.7	7.0	19.5	32.5	2.40	54.5	1.0	43.7	78.0	0.80	4.78	23.0	3420
MC5660	106	29333.3	68.9	29.4	9.4	6.9	27.6	43.4	3.57	50.0	1.0	31.1	76.8	0.73	4.56	22.1	3138
EXP-J	109	32833.3	66.0	29.2	9.3	7.6	24.9	39.8	3.46	48.7	0.6	36.0	73.3	0.76	4.30	20.0	3200
MC5370	103	29500	60.9	28.8	9.2	6.3	24.4	38.9	3.04	51.9	1.0	37.1	76.6	0.76	4.49	22.0	3008
MC6150	111	33500	70.2	26.8	8.6	6.4	29.2	45.8	3.70	47.2	1.3	27.5	81.4	0.72	4.02	25.6	2970
EXP-H	103	33166.7	60.6	26.3	8.4	8.4	21.5	37.4	2.91	58.5	0.6	38.6	72.7	0.78	5.42	19.7	3238
EXP-L	112	27000	64.6	26.0	8.3	6.9	32.7	51.6	4.49	43.8	1.0	23.2	78.9	0.68	3.82	23.6	2527
MCT5451	104	33000	65.7	25.4	8.1	7.0	25.2	40.2	3.39	47.9	0.6	35.6	75.4	0.74	4.14	21.3	3059
MCT6361	113	31333.3	71.1	24.9	8.0	6.8	31.4	49.1	4.28	45.2	1.2	23.4	77.5	0.70	3.89	22.6	2782
Averages	107	31667	63.6	29.3	9.4	7.2	24.1	39.2	3.12	51.8	0.9	36.4	77.1	0.76	4.54	22.4	3080

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

Sorted by Milk per Ton

Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC535	107	31666.7	63.0	30.3	9.7	7.0	19.5	32.5	2.40	54.5	1.0	43.7	78.0	0.80	4.78	23.0	3420
EXP-K	110	33500	57.6	41.6	13.3	7.9	17.1	29.9	2.06	59.7	0.9	45.7	78.6	0.82	5.17	23.4	3265
MC5250	102	33000	61.2	32.7	10.5	6.9	20.0	32.8	2.28	54.7	0.8	45.5	78.1	0.80	4.88	23.1	3253
EXP-H	103	33166.7	60.6	26.3	8.4	8.4	21.5	37.4	2.91	58.5	0.6	38.6	72.7	0.78	5.42	19.7	3238
EXP-J	109	32833.3	66.0	29.2	9.3	7.6	24.9	39.8	3.46	48.7	0.6	36.0	73.3	0.76	4.30	20.0	3200
MC5660	106	29333.3	68.9	29.4	9.4	6.9	27.6	43.4	3.57	50.0	1.0	31.1	76.8	0.73	4.56	22.1	3138
EXP-I	105	32166.7	53.0	30.4	9.7	7.8	15.8	28.7	1.80	59.2	0.7	49.1	78.0	0.83	4.97	22.9	3094
MCT5451	104	33000	65.7	25.4	8.1	7.0	25.2	40.2	3.39	47.9	0.6	35.6	75.4	0.74	4.14	21.3	3059
MC5370	103	29500	60.9	28.8	9.2	6.3	24.4	38.9	3.04	51.9	1.0	37.1	76.6	0.76	4.49	22.0	3008
MC6150	111	33500	70.2	26.8	8.6	6.4	29.2	45.8	3.70	47.2	1.3	27.5	81.4	0.72	4.02	25.6	2970
MCT6361	113	31333.3	71.1	24.9	8.0	6.8	31.4	49.1	4.28	45.2	1.2	23.4	77.5	0.70	3.89	22.6	2782
EXP-L	112	27000	64.6	26.0	8.3	6.9	32.7	51.6	4.49	43.8	1.0	23.2	78.9	0.68	3.82	23.6	2527
Averages	107	31667	63.6	29.3	9.4	7.2	24.1	39.2	3.12	51.8	0.9	36.4	77.1	0.76	4.54	22.4	3080



2014 Masters Choice Silage Trial

Ovid, NY

Planted: 6/2/14 Harvested: 9/12 - 10/2 2014



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin (30 hr)	% NDFd	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NDF Kd **	% Starch Kd	Milk per Ton	
MC5250(+) 1/3 MasterGraze	102	NA	NA	7.0													
MC5250(+) 2/3 MasterGraze	102	NA	NA	7.0													
MasterGraze		NA	62.7	NA	7.0	8.6	24.4	39.4	2.58	66.1	1.5	29.9	66.4	0.76	5.15	16.5	
MC5250(+) 1/2 MasterGraze	102	29000	66.3	24.7	7.0	7.3	23.1	36.1	2.62	58.5	1.9	34.1	77.1	0.77	4.90	22.3	3425
MC4210(+)2/3 MasterGraze	92	26000	60.0	21.9	7.0	8.4	22.5	36.4	2.66	60.3	1.6	32.7	72.0	0.77		19.9	3140
MC4210(+)1/2 MasterGraze	92	25000	59.1	21.7	7.0	7.7	22.2	36.6	2.79	58.6	1.2	35.1	73.8	0.78	4.92	20.3	3181
MC4210(+)1/3 MasterGraze	92	25000	61.4	21.7	6.9	6.8	22.6	36.3	2.82	55.4	1.4	35.9	79.3	0.78	4.72	24.0	3199
MC3220(+)2/3 MasterGraze	82	28000	70.8	21.4	6.9	7.7	24.5	38.9	2.62	59.9	3.3	28.0	79.2	0.76	5.36	23.8	3150
MC3220(+)1/2 MasterGraze	82	22000	71.3	20.2	6.5	8.4	24.4	39.4	2.66	58.9	2.9	26.6	81.5	0.76	5.24	25.7	3099
MC3220(+)1/3 MasterGraze	82	29000	73.8	19.2	6.2	7.9	26.3	41.6	3.17	55.5	2.3	25.4	81.3	0.74	4.74	25.5	3013
Averages		26286	65.7	21.6	6.8	7.9	23.8	38.1	2.74	59.2	2.0	31.0	76.3	0.77	5.00	22.3	3195

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Romulus, NY

Planted: 5/24/14 Harvested: 9/12/2014



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68% Tons	DM Tons	% CP	% ADF	% aNDFom	% Lignin (30 hr)	% NDFd Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% Kd **	% NDF Kd	% Starch Kd	Milk per Ton
MC4560	95	24000	68.5	27.6	8.8	7.5	21.5	34.4	2.54	56.5	1.6	35.8	78.9	0.78	4.93	23.6	3522
TMF2L530	101	26000	70.9	27.3	8.7	7.8	22.3	36.6	2.52	59.4	2.1	32.3	76.3	0.77	5.11	21.8	3418
MC5250	102	26000	71.0	27.2	8.7	6.9	21.9	34.5	2.37	57.5	1.8	35.7	82.9	0.78	4.85	26.9	3483
MC4880	98	26000	67.9	27.1	8.7	7.1	20.8	34.0	2.41	57.5	1.5	38.4	77.3	0.79	4.86	22.5	3677
MC4210	92	32000	66.7	26.0	8.3	5.9	22.6	36.0	2.57	56.9	1.4	38.0	78.0	0.79		23.0	3577
MC5370	103	28000	69.3	25.9	8.3	6.6	21.8	35.2	2.39	58.9	1.9	36.5	81.7	0.79	5.10	25.8	3596
MC4050	90	28000	67.0	25.8	8.3	6.4	21.2	33.9	2.45	56.6	1.5	39.5	79.0	0.80	4.86	23.7	3659
42HF15	102	26000	72.5	24.1	7.7	7.1	27.3	43.4	3.23	55.4	1.7	26.9	79.1	0.74	4.77	23.8	3148
Averages		27000	69.2	26.4	8.4	6.9	22.4	36.0	2.56	57.3	1.7	35.4	79.2	0.78	4.93	23.9	3510

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Ambburgh, iNDF)



2014 Masters Choice Silage Trial

Ovid, NY

Planted: 5/7/14

Harvested: 9/8 - 9/12/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC5451	104	32000	54.1	38.7	12.4	7.4	18.8	30.4	2.26	56.7	1.5	45.2	72.8	0.81	4.67	19.7	2988
MC5250	102	30000	53.6	37.0	11.8	6.6	21.9	35.1	2.57	54.3	1.4	41.5	73.6	0.78	4.52	20.2	2799
EXP-G	98	32000	61.2	35.2	11.3	8.1	18.8	30.1	2.05	59.1	1.3	42.5	78.3	0.80	4.93	23.2	3371
MC4884	98	31000	58.4	35.1	11.2	6.7	20.3	32.6	2.36	57.3	1.4	42.5	76.6	0.79	5.02	22.0	3114
P0210AMX	102		61.4	34.4	11.0	7.1	22.8	36.6	2.61	58.4	1.6	37.8	76.6	0.77		22.0	3218
MC5370	103	29000	62.6	32.7	10.5	7.1	20.9	33.2	2.26	57.9	1.9	40.0	75.7	0.79	4.76	21.5	3390
EXP-H	103	31000	64.5	32.2	10.3	8.0	22.2	36.8	2.93	58.8	0.7	39.8	68.4	0.78	4.92	17.4	3459
TMF2L530	101	32000	60.8	31.9	10.2	6.7	26.3	42.2	3.23	54.2	1.6	31.4	71.3	0.75	4.70	18.9	2985
P0216HR	102	30000	67.3	31.7	10.1	7.8	21.9	34.8	2.68	55.4	1.7	38.1	76.7	0.79	4.69	22.1	3580
F2F569BMR	105	32000	62.0	30.9	9.9	6.8	23.1	39.0	2.74	58.3	1.4	34.4	74.5	0.77	5.13	20.7	3250
MC4050	90	29000	59.3	30.5	9.8	6.8	22.7	36.6	2.83	54.4	1.7	36.4	79.5	0.78	4.89	24.1	3089
EXP-C	88	27000	55.2	30.1	9.6	8.4	23.5	39.5	3.14	56.5	1.7	30.6	72.1	0.76	5.15	19.3	2865
MC4210	92	30000	55.2	30.1	9.6	7.7	19.5	32.6	2.58	54.4	1.4	41.9	76.3	0.80	4.74	21.8	2954
MC4540	95	29000	57.3	30.0	9.6	6.9	21.6	34.0	2.41	59.3	1.3	40.0	73.8	0.79	4.94	20.3	3056
EXP-D	90	31000	56.4	30.0	9.6	7.1	21.9	35.2	2.68	55.4	1.7	37.9	75.5	0.78	4.88	21.3	2922
MC3220	82	31000	50.1	29.6	9.5	7.2	22.4	36.6	2.80	56.3	1.3	38.3	77.0	0.78	5.21	22.3	2902
MC535	107	32000	65.3	29.3	9.4	8.0	23.3	36.8	3.05	55.0	1.9	35.0	71.3	0.76	4.91	18.9	3339
MC480GT	87	29000	60.9	28.1	9.0	7.0	24.9	40.6	3.21	56.0	1.4	33.1	77.4	0.76	5.16	22.6	3139
EXP-F	95	31000	60.7	27.6	8.8	7.5	20.5	33.0	2.58	54.0	1.4	41.6	75.6	0.78	5.18	21.4	3132
EXP-E	92	29000	60.5	27.2	8.7	7.8	23.0	37.8	2.81	58.3	1.5	35.4	75.0	0.77	5.23	21.0	3173
EXP-B	87	30000	50.6	27.0	8.6	8.1	22.0	35.8	2.79	55.1	1.3	38.5	75.8	0.78	5.27	21.5	2868
P9807R	98	29000	63.3	27.0	8.6	7.5	21.4	34.1	2.60	55.5	1.6	37.4	78.4	0.78	4.81	23.3	3361
MC5660	106	32000	60.8	25.7	8.2	7.3	21.1	35.6	2.06	66.5	1.6	39.7	73.9	0.79	5.36	20.4	3395
MC4560	95	25000	59.4	25.4	8.1	6.6	21.9	35.0	2.55	56.2	1.3	39.4	75.6	0.78	4.84	21.4	3095
EXP-J	109	27000	68.9	25.3	8.1	6.4	26.9	41.8	3.33	54.4	1.4	31.1	74.4	0.73	4.89	20.6	3212
EXP-A	80	32000	51.0	25.3	8.1	7.9	19.5	32.6	2.61	57.8	0.8	41.9	69.5	0.81	4.85	17.9	3060
EXP-I	105	33000	53.9	25.2	8.1	5.7	23.0	37.0	2.68	54.2	1.2	39.8	74.5	0.77	4.61	20.7	2778
MC5273000GT	105	32000	53.4	21.8	7.0	6.4	26.0	41.4	3.26	49.3	1.4	35.4	75.0	0.74	4.40	21.0	2540
Averages		30259	58.9	29.8	9.5	7.2	22.2	36.0	2.70	56.4	1.4	38.1	74.8	0.78	4.91	21.0	3108

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Loweville, NY

Planted: 5/29/14 Harvested: 10/1/2014



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% Starchd	% NEI	% 7 Hr 4mm	% NDF	% Starch	% Kd **	Milk per Ton
EXP-C	88	31000	69.1	27.0	8.7	7.4	24.9	39.7	2.98	57.7	1.2	30.5	81.7	0.76	4.90	25.8	3382		
EXP-D	90	32000	72.2	25.6	8.2	7.2	25.3	39.8	2.87	57.4	1.4	30.2	84.3	0.75	4.65	28.3	3277		
MC3220	82	32000	64.5	25.5	8.2	7.6	24.8	40.4	3.10	55.6	1.1	32.9	79.1	0.76	4.88	23.8	3265		
EXP-B	87	28000	69.7	24.6	7.9	7.7	25.0	40.8	2.93	57.1	1.1	30.7	81.2	0.75	4.94	25.5	3390		
MC480	87	27000	72.3	24.2	7.8	7.8	25.5	40.8	3.02	57.7	1.5	29.1	82.0	0.76		26.1	3310		
EXP-A	80	28000	66.5	24.1	7.7	8.4	24.6	39.7	2.95	60.2	1.5	29.0	76.1	0.76	4.90	21.7	3320		
MC4210	92	31000	71.2	23.4	7.5	8.2	24.5	38.4	3.00	53.2	1.4	32.3	83.4	0.76	4.71	27.3	3359		
MC4050	90	28000	74.9	20.4	6.5	8.4	24.5	39.5	3.00	55.4	1.7	28.3	82.2	0.75	4.86	26.3	3173		
Averages		29625	70.1	24.4	7.8	7.8	24.9	39.9	2.98	56.8	1.4	30.4	81.3	0.76	4.83	25.6	3310		

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Ambburgh, iNDF)



2014 Masters Choice Silage Trial

Loweville, NY

Planted: 6/5/14 Harvested: 10/1/2014



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC5090 (OG)	100	32000	75.2	24.8	7.9	8.8	25.9	40.5	3.28	53.7	1.2	30.3	82.6	0.74	4.53	26.7	3272
MC5250 (UT)	102	31000	76.8	24.7	7.9	9.0	28.7	44.6	3.17	55.9	2.6	17.8	88.0	0.72	4.35	34.7	2616
MC4590 (OG)	95	32000	73.2	22.6	7.2	8.2	28.8	45.8	3.32	53.7	1.6	24.0	86.9	0.73	4.58	31.1	3046
MC468 (OG)	83	29000	70.1	20.1	6.4	8.0	24.4	39.1	2.77	56.5	1.1	32.8	85.9	0.76	4.72	29.9	3439
MC4050 (UT)	90	27000	74.6	19.4	6.2	9.3	25.7	41.3	3.00	56.5	1.4	27.4	85.5	0.75		29.5	3277
Averages		30200	74.0	22.3	7.1	8.7	26.7	42.3	3.11	55.3	1.6	26.5	85.8	0.74	4.55	30.4	3130

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Valley Falls, NY

Planted: 5/13/14 Harvested: 9/9 - 9/18/14



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC3221	82	31000	55.2	35.7	11.4	7.1	19.9	33.2	2.63	53.7	1.9	41.5	76.0	0.79	5.25	21.6	2917
MC5660	106	25000	64.9	35.6	11.4	7.3	23.8	37.8	2.96	52.6	2.7	32.3	78.4	0.75	4.83	23.3	3065
MC5370	103	25000	62.6	35.1	11.2	7.0	22.5	36.3	2.86	52.5	2.2	36.8	78.1	0.77	4.84	23.1	3174
EXP-I	105	30000	60.7	35.0	11.2	7.7	21.8	36.9	2.87	56.5	1.4	36.6	72.6	0.78	5.11	19.6	3226
MC535	107	30000	64.7	34.2	10.9	7.0	23.0	37.2	2.92	53.1	1.8	35.7	77.8	0.77		22.8	3313
MC5250	102	27000	67.0	34.0	10.9	7.1	24.1	38.7	3.08	54.3	1.8	35.4	75.9	0.76	4.85	21.6	3366
EXP-J	109	30000	67.0	33.5	10.7	7.5	24.8	40.5	3.51	49.3	2.0	32.0	76.9	0.75	4.48	22.2	3243
MC4540	95	32000	56.8	33.1	10.6	6.6	20.7	33.4	2.35	57.4	1.6	42.0	72.3	0.79	5.06	19.4	2973
EXP-F	94	30000	63.1	32.9	10.5	7.2	21.8	34.7	2.84	51.5	1.9	39.3	74.1	0.77	5.08	20.5	3187
EXP-D	90	28000	52.5	32.7	10.5	7.0	19.6	32.8	2.44	55.5	1.3	43.4	74.0	0.79	4.71	20.4	2903
P9690R	93	31000	64.3	32.4	10.4	7.3	21.6	34.1	2.74	52.9	2.0	38.9	74.0	0.78	5.03	20.4	3325
EXP-G	98	28000	66.1	32.3	10.3	8.1	21.8	34.2	2.64	57.1	2.6	34.8	72.5	0.77	5.35	19.5	3365
TA 550-18ND	105	28000	61.0	32.3	10.3	8.2	22.2	37.0	3.20	52.1	1.4	36.4	72.0	0.77	4.70	19.3	3120
EXP-B	87	30000	49.2	31.8	10.2	7.8	23.2	38.4	3.06	53.1	1.3	37.6	74.4	0.76	5.16	20.6	2733
EXP-E	92	28000	64.1	31.4	10.1	7.1	24.0	38.7	2.87	57.6	1.8	35.7	73.6	0.76	5.17	20.2	3291
EXP-H	103	32000	59.8	31.4	10.1	7.4	22.5	37.4	2.88	56.5	1.4	37.1	71.6	0.77	5.13	19.1	3129
MC5451	104	27000	54.9	31.0	9.9	7.6	21.9	36.9	3.00	51.9	1.5	38.7	73.7	0.77	4.80	20.2	2770
MC4884	98	27000	61.3	30.2	9.7	7.0	23.3	37.6	2.88	54.4	2.3	35.3	74.0	0.76	5.02	20.4	3096
MC4210	92	32000	62.0	29.7	9.5	7.2	21.8	34.4	2.75	53.9	2.4	38.5	72.3	0.78	5.15	19.4	3215
MC3221/MasterGraze	82	20000	57.3	29.4	9.4	8.1	21.4	35.6	2.80	55.6	1.7	39.2	71.7	0.78	5.22	19.1	2968
P38A55	93	31000	58.1	28.8	9.2	7.7	22.9	37.2	3.12	51.7	2.2	35.7	73.9	0.76	5.21	20.4	2859
MC4560	95	32000	62.4	28.8	9.2	7.3	22.2	35.5	2.72	55.1	2.4	36.5	73.5	0.77	5.32	20.1	3204
Seedway 3904	98	28000	59.4	27.9	8.9	7.0	27.3	43.5	3.64	47.2	2.3	30.1	76.7	0.73	4.44	22.1	2686
EXP-C	88	32000	57.1	26.1	8.4	7.5	22.4	37.5	2.99	55.7	1.3	37.4	71.5	0.77	5.14	19.0	2956
MC3221/MasterGraze	82	25000	54.8	26.1	8.4	7.6	22.3	36.5	2.90	54.6	1.9	36.8	72.5	0.77	5.22	19.5	2852
EXP-A	80	30000	48.5	25.8	8.2	7.8	21.5	35.8	2.87	56.7	1.0	39.7	69.0	0.78	5.15	17.7	2872
MC4050	90	24000	63.4	25.2	8.1	7.6	22.1	35.1	2.89	53.8	2.1	36.7	73.5	0.77	5.30	20.1	3260
MC480GT	87	29000	62.3	23.6	7.5	7.3	25.8	42.4	3.15	57.1	1.8	30.8	76.2	0.74	5.13	21.8	3107
Averages		28643	60.0	30.9	9.9	7.4	22.6	36.8	2.91	54.1	1.9	36.8	74.0	0.77	5.03	20.5	3078

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial
Trumansburg, NY
Planted: 5/20/14 Harvested: 10/2/2014



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% iNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% Starchd	% NEI	% 7 Hr 4mm Starchd	% NDF Kd **	% Starch Kd	Milk per Ton
MC5090	100	300000	62.1	36.1	11.6	6.9	21.6	34.8	2.81	52.4	1.7	38.7	78.8	0.79	4.73	23.5	3277	
MC5300	103	250000	65.3	35.2	11.3	7.4	24.2	39.0	2.89	54.1	2.2	31.4	81.7	0.76	4.72	25.8	3158	
MC4880	98	300000	57.1	34.9	11.2	7.1	21.0	34.6	2.69	55.5	1.6	37.4	75.7	0.78	4.79	21.5	3020	
MC5800	108	300000	65.9	33.6	10.7	7.4	23.7	37.9	2.92	53.7	2.2	32.4	77.6	0.77	4.72	22.7	3240	
MC480/MST	87	290000	59.8	32.0	10.3	7.2	22.3	36.5	2.73	56.7	1.8	35.3	77.1	0.78		22.3	3143	
MC480	87	290000	59.8	31.4	10.1	7.5	22.1	36.4	2.65	57.2	1.5	35.8	79.4	0.79	4.87	24.0	3223	
MC4050	90	300000	69.5	30.5	9.8	7.8	22.8	36.4	2.73	55.8	2.3	31.7	80.5	0.78	4.94	24.9	3305	
MC4590	95	260000	58.1	30.1	9.6	6.7	22.7	36.7	2.75	54.3	1.7	37.3	77.0	0.78	4.71	22.3	3038	
MC3220	82	270000	57.9	28.9	9.3	7.8	18.4	30.9	2.38	56.6	1.4	42.1	76.6	0.81	5.00	22.0	3226	
MC468	83	260000	60.1	26.2	8.4	7.7	21.8	35.7	2.75	54.5	1.9	35.6	78.2	0.78	4.77	23.1	3142	
Averages		28200	61.6	31.9	10.2	7.4	22.1	35.9	2.73	55.1	1.8	35.8	78.3	0.78	4.81	23.2	3177	

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Silage Trial

Phelps, NY

Planted: 5/15/14 Harvested: 9/20/2014



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton	
MC535	107	31000	75.4	26.0	8.3	7.6	25.1	41.8	2.89	57.7	1.6	27.6	83.4	0.76	4.92	27.3	3227	
DeDell DL3857	98	30000	73.4	24.4	7.8	7.7	27.6	44.7	3.05	57.6	1.6	24.2	81.7	0.74	5.03	25.8	3059	
MC5250	102	29000	74.7	24.0	7.7	7.0	26.0	41.4	2.80	58.1	1.6	28.2	83.4	0.75	5.06	27.4	3190	
P9917	99	31000	71.5	23.9	7.6	7.7	24.0	38.0	2.67	56.0	1.6	31.0	82.5	0.77	4.81	26.5	3300	
MC4880	98	31000	71.8	23.6	7.6	7.7	25.2	40.2	3.02	55.1	1.6	29.1	79.8	0.76			24.3	3230
Chemgrow 6583G3N	105	29000	75.5	23.1	7.4	7.9	26.8	42.4	3.20	53.5	2.0	24.8	83.4	0.74	4.60	27.3	2961	
MC5370	103	30000	74.2	22.4	7.2	7.8	25.6	41.1	3.04	55.3	1.8	26.2	82.4	0.75	4.74	26.5	3044	
MC4210	92	32000	70.9	22.1	7.1	7.3	26.0	42.1	3.14	56.1	1.6	29.2	80.5	0.75	4.97	24.8	3301	
P0216HR	102	33000	77.0	21.3	6.8	7.8	25.0	40.7	2.80	57.3	1.6	28.1	84.0	0.76	4.83	28.0	3205	
Averages		30667	73.8	23.4	7.5	7.6	25.7	41.4	2.96	56.3	1.7	27.6	82.3	0.75	4.87	26.4	3169	

Note: Samples were ensiled an average of 3 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

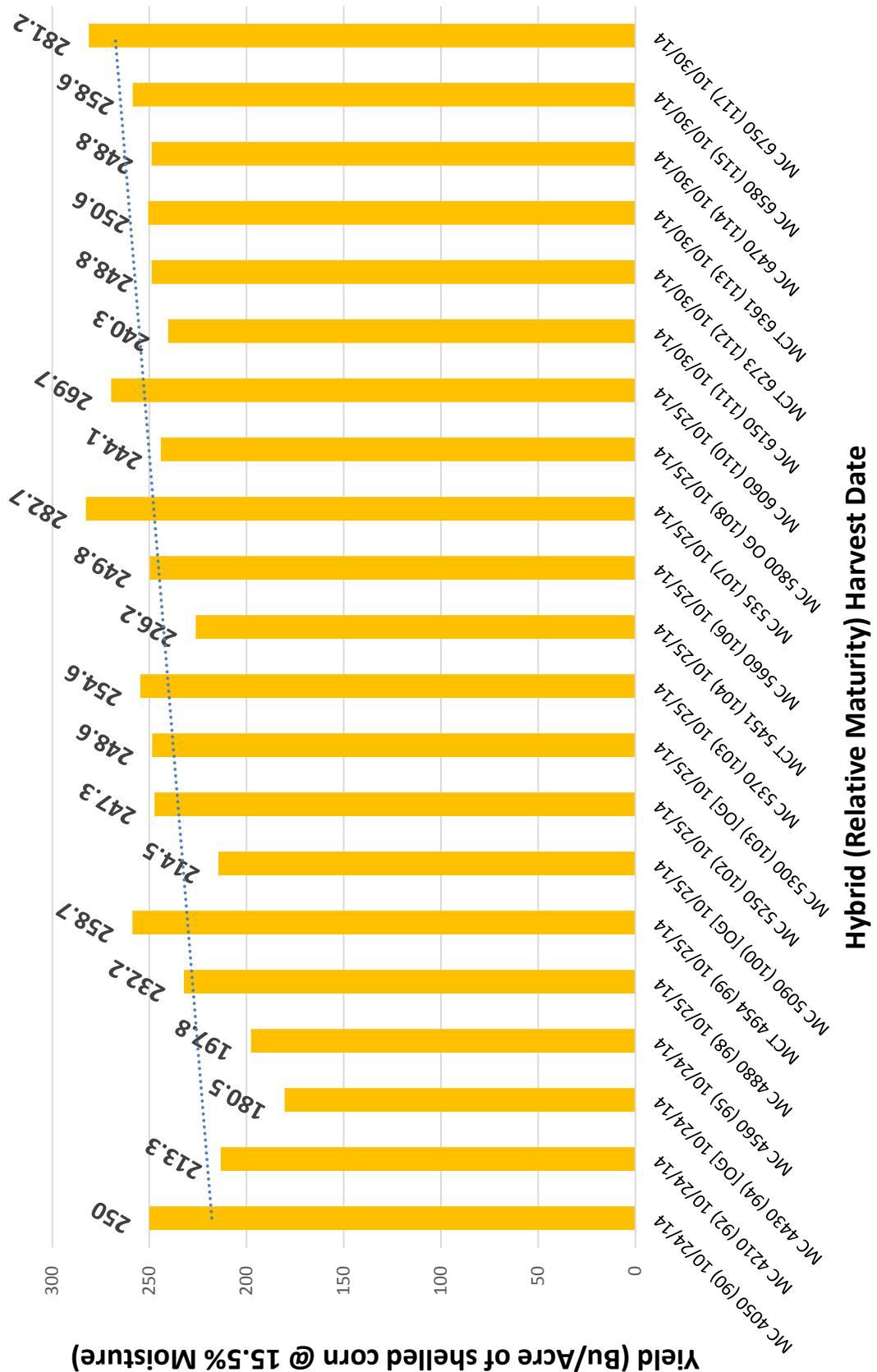
Sorted by Yield

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

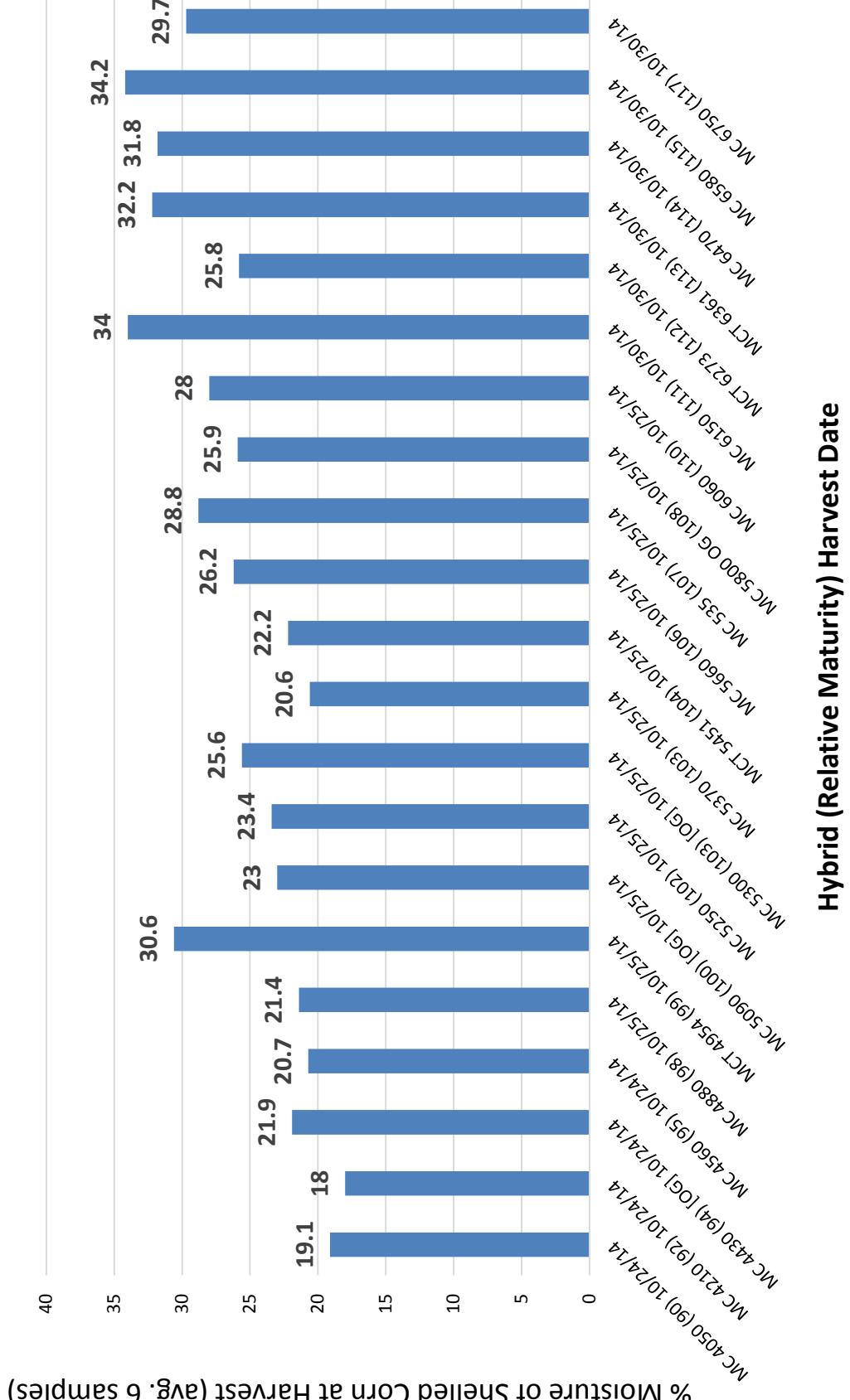
King's Single-Location Hybrid Comparison & Analysis Grain & Silage

2014 Masters Choice Corn Plot
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
 Planted 6-3-2014, planting rate 27,700 seeds/acre



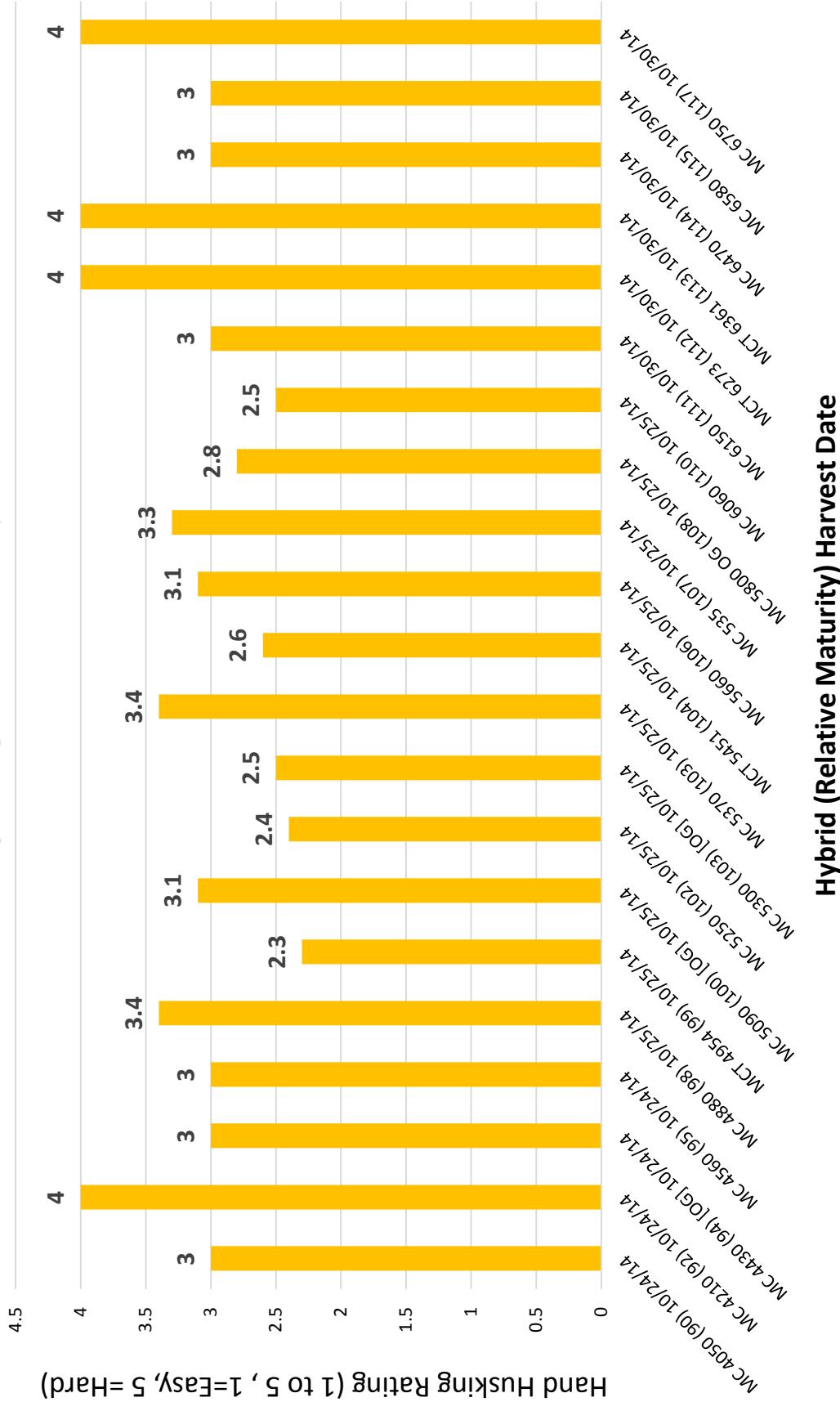
2014 Masters Choice Corn Plot

% Moisture of shelled corn at harvest
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
Planted 6-3-2014, planting rate 27,700 seeds/acre

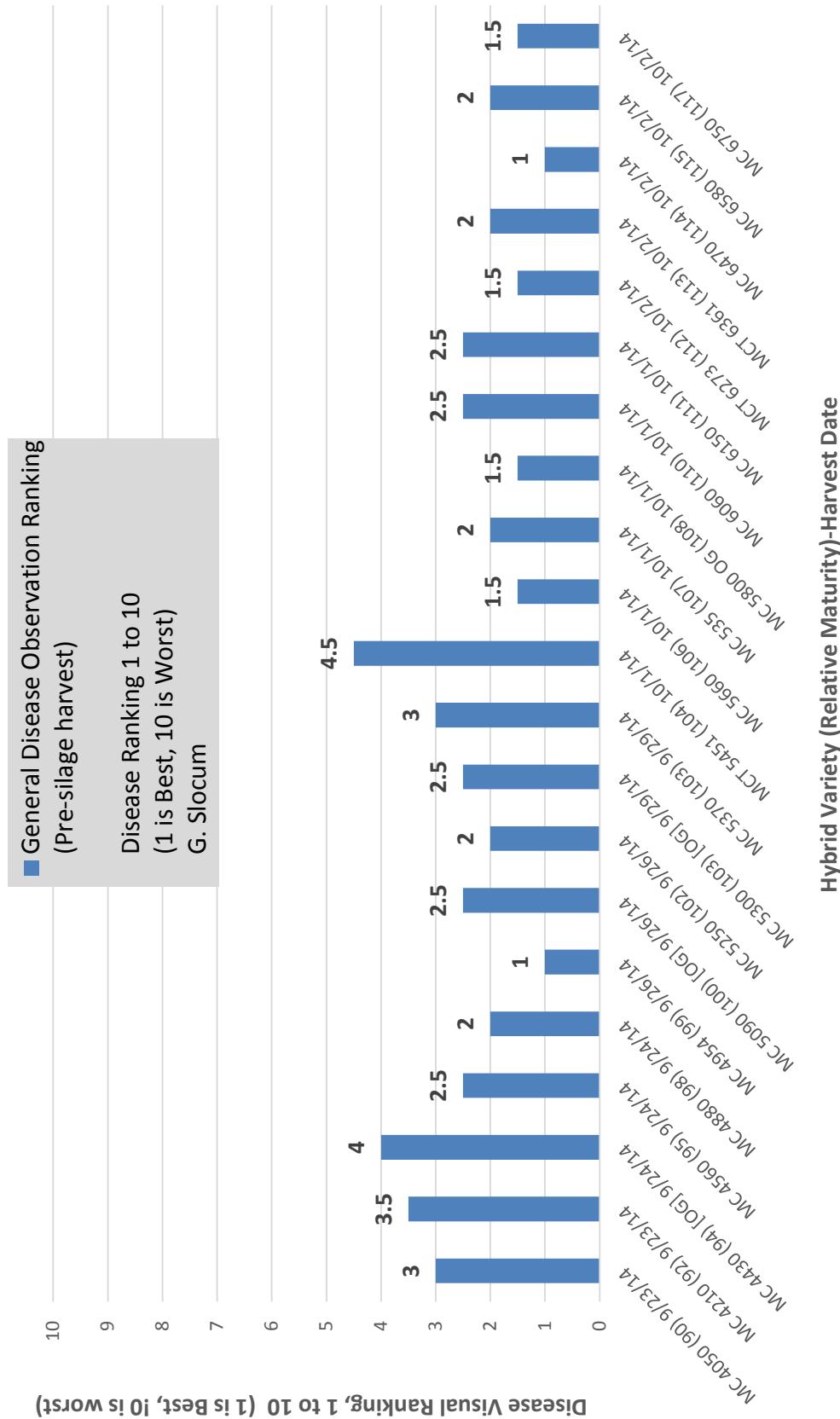


2014 Masters Choice Corn Plot
Hand Husking Rating of Corn
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
Planted 6-3-2014

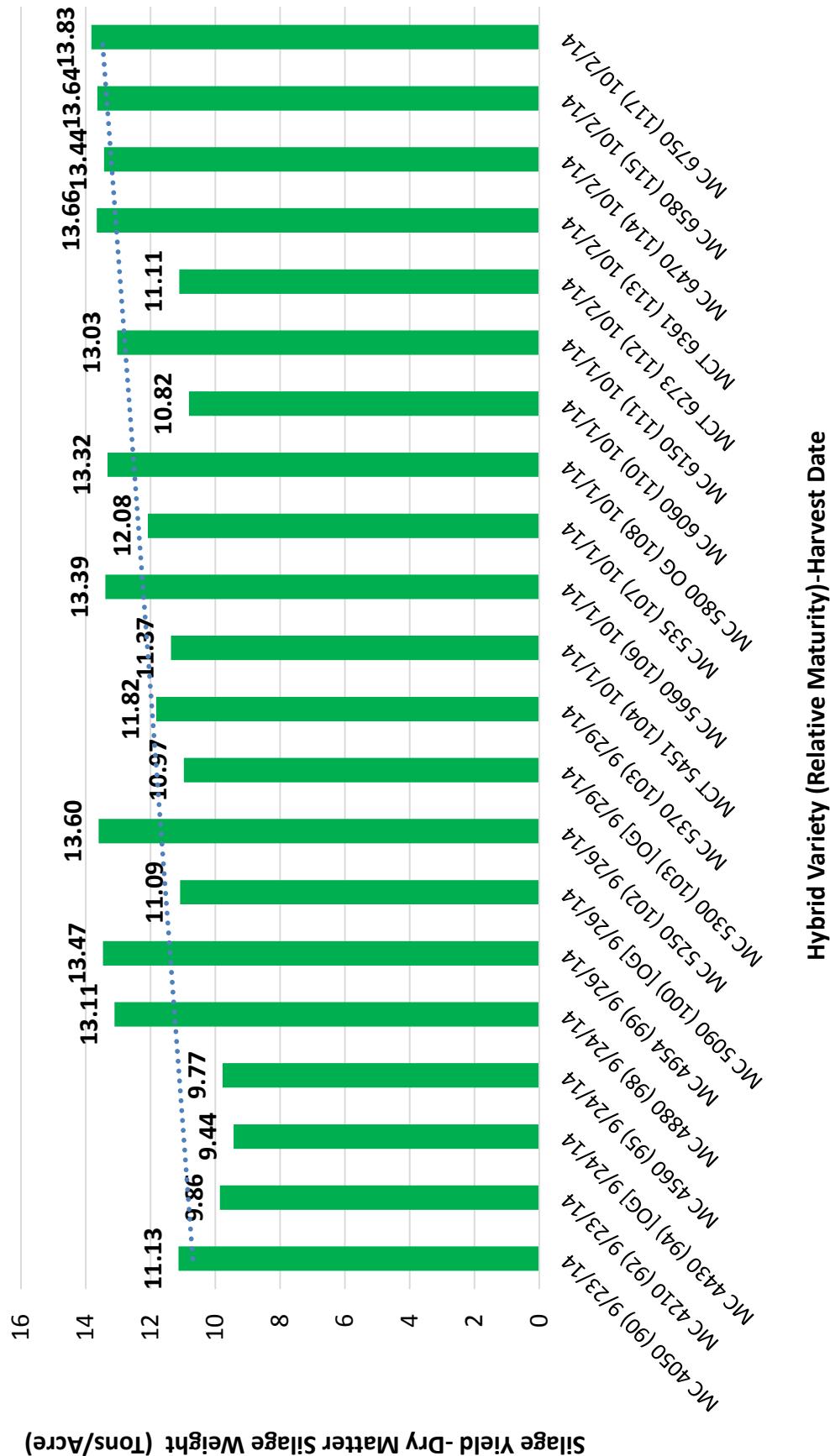
Hand Husking Rating (1 to 5 , 1=Easy, 5=Hard)



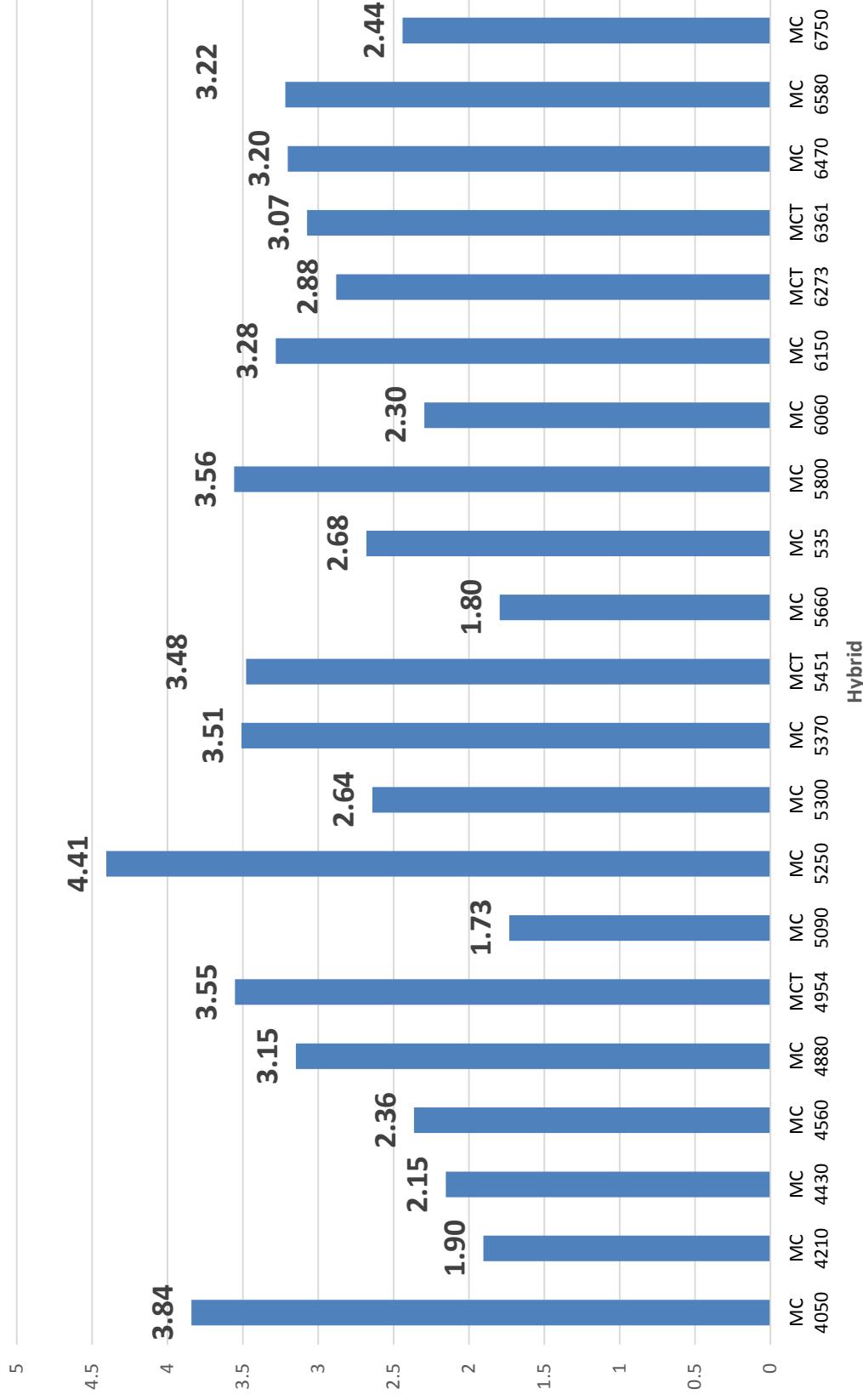
2014 Masters Choice Corn Plot
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
General Disease Observation Ranking
(Pre-silage harvest ranking)
Disease Ranking Scale 1 to 10



2014 Masters Choice Corn Plot
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
Dry Matter Silage Yields (Tons/Acre)
Planted: 6/3/14 - (No-till) at 27,700 seeding population



2014 Masters Choice Corn Plot
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
Tons/Acre of 7hour digestible starch
7 hour Starch digestibility (%) x Tons of Starch (DM)
Planted: 6/3/14 - (No-till) at 27,700 seeding population



2014 Masters Choice Corn Plot

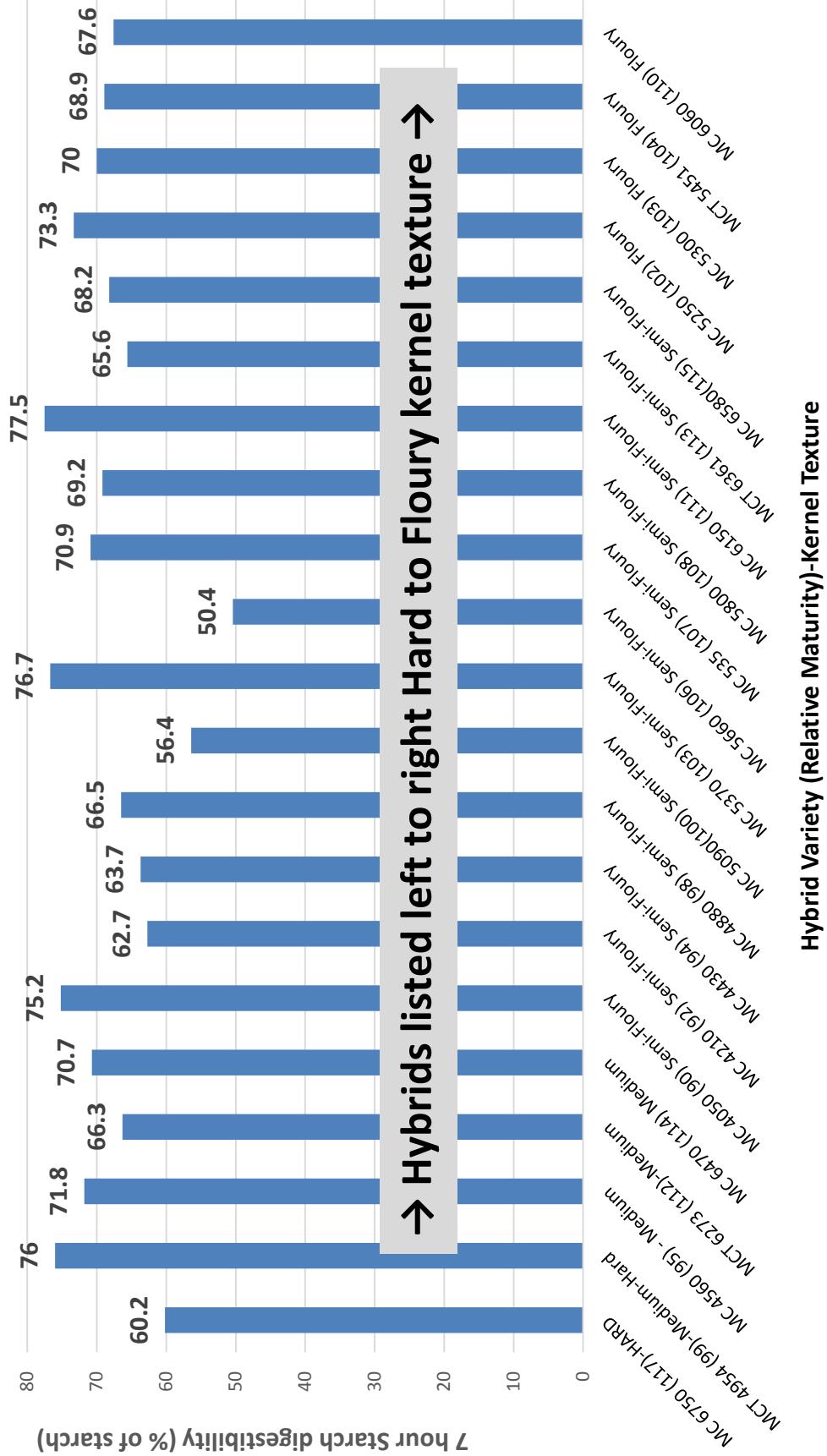
Graph of 7 hour Starch digestibility (% of starch)

Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA

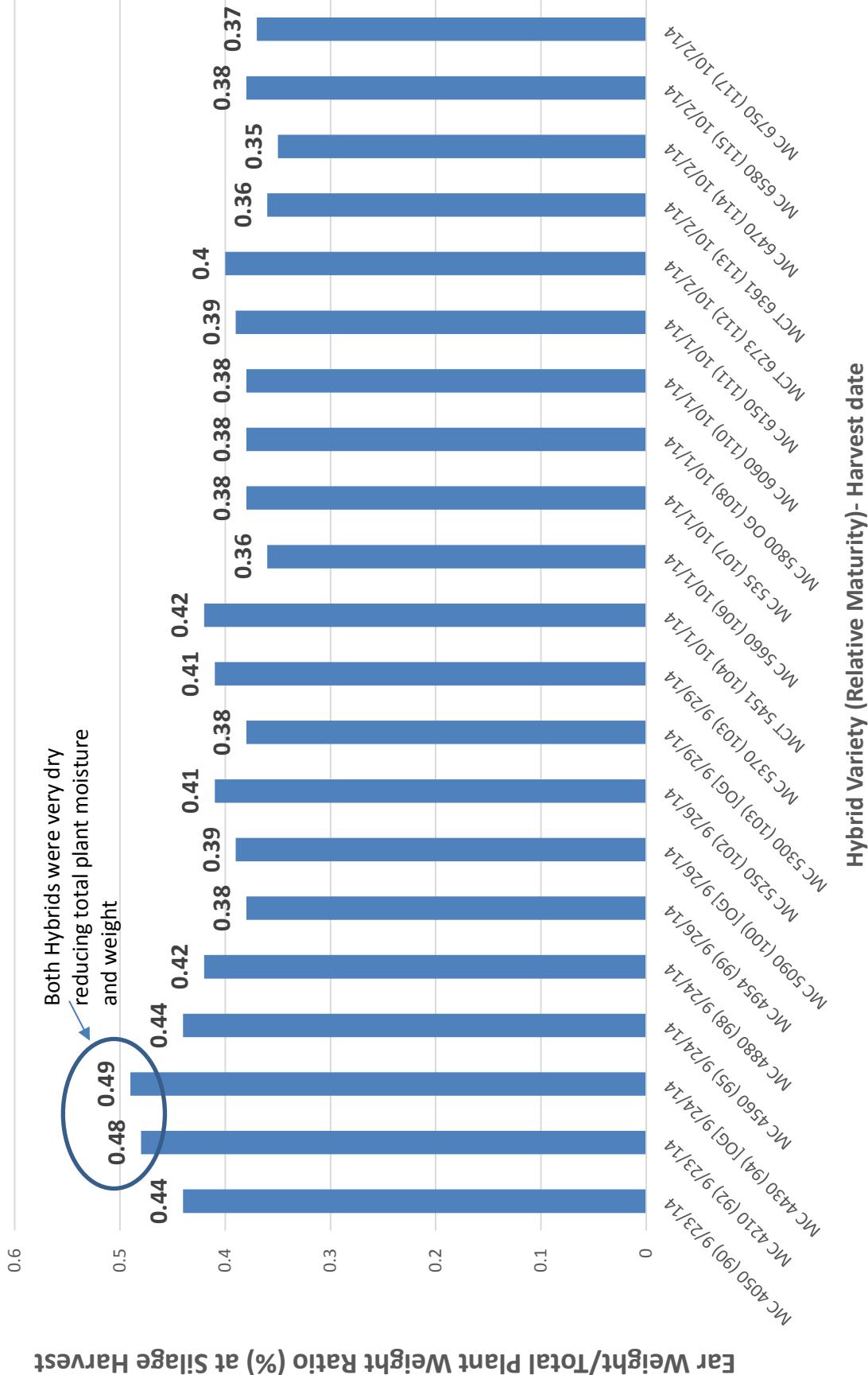
Planted: 6/3/14 - (No-till) at 27,700 seeding population

Hybrids listed left to right Hard to Floury kernel texture

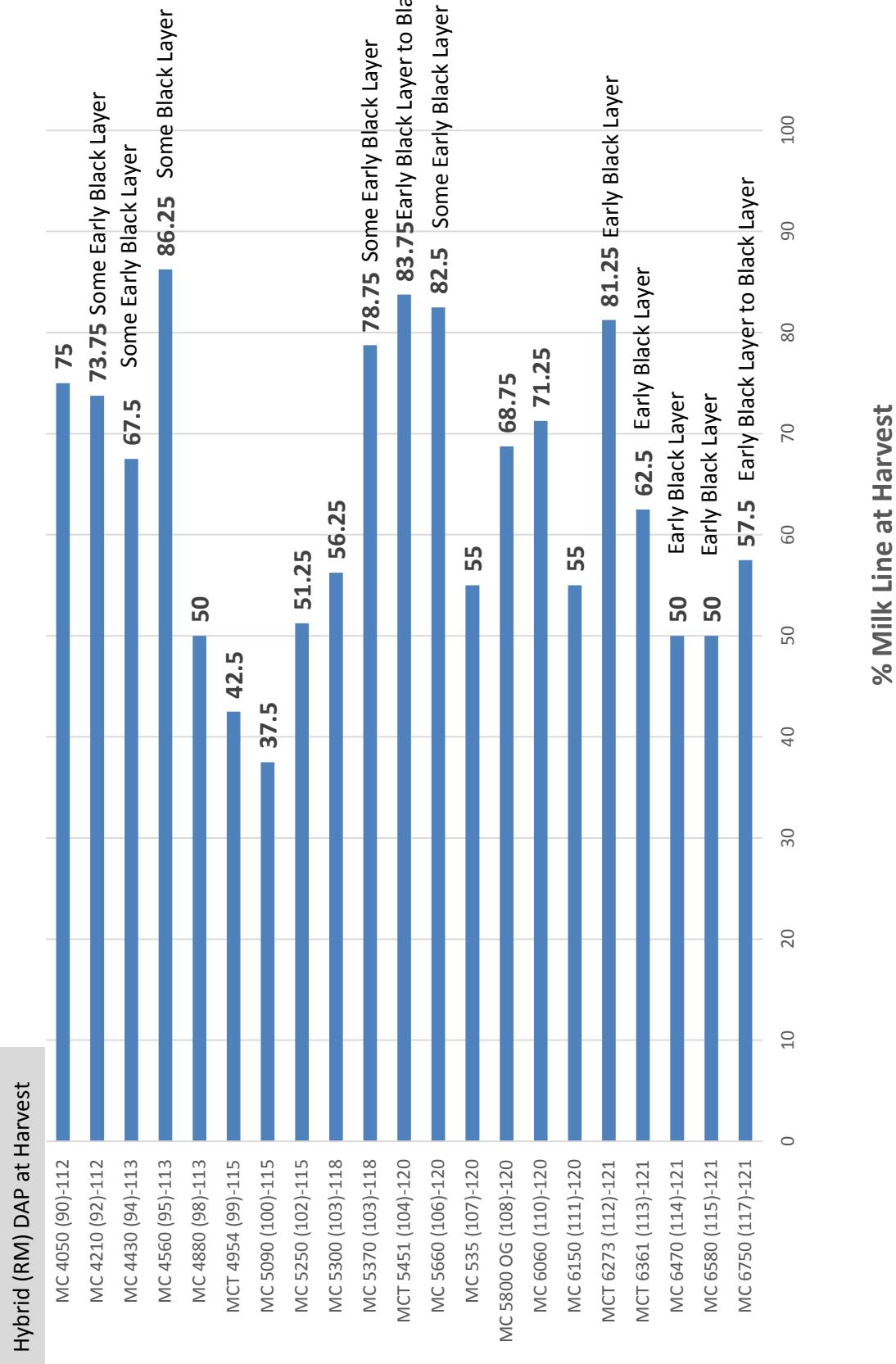
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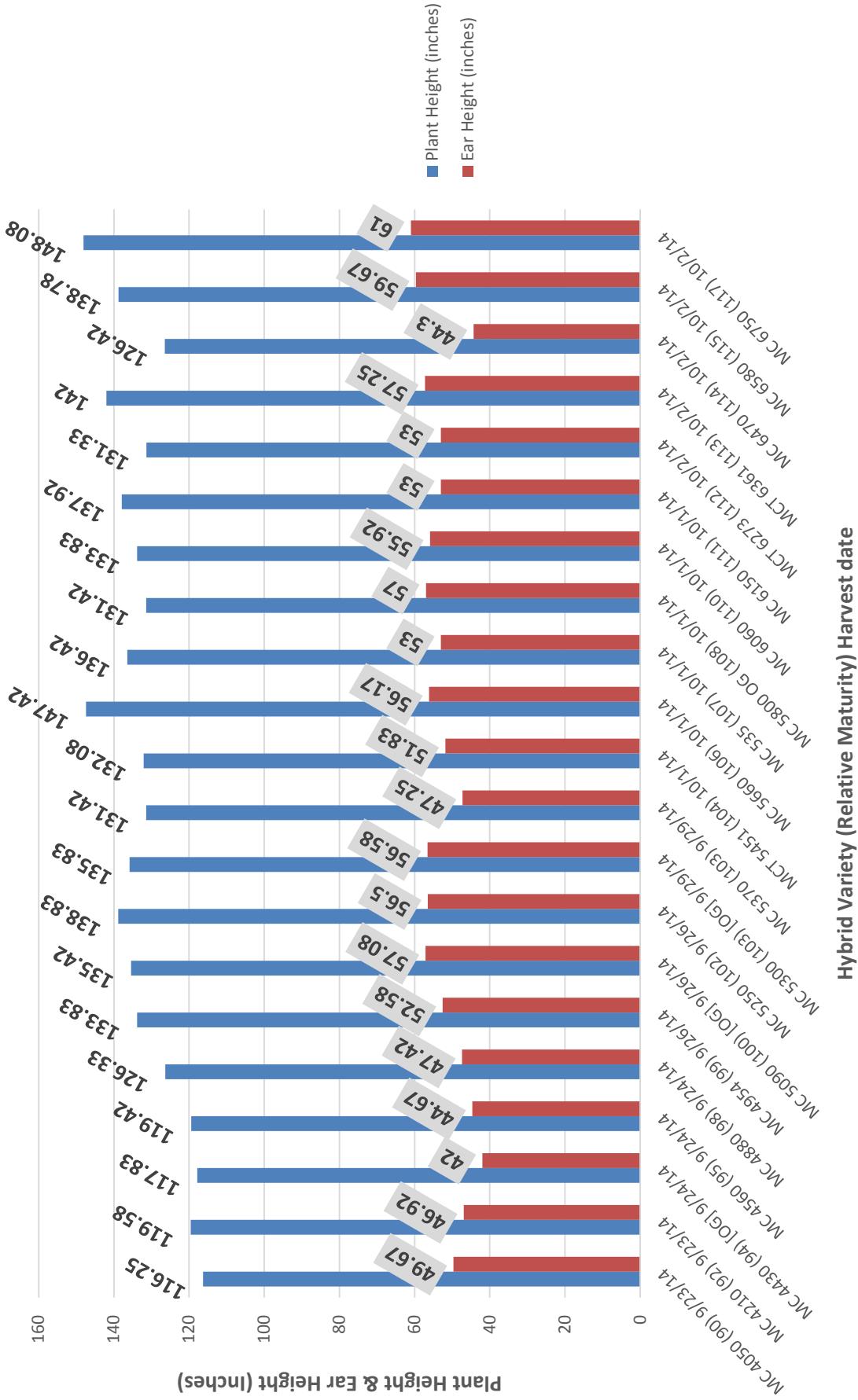
2014 Masters Choice Corn Plot
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
Ear Weight/Total Plant Weight Ratio (%) at field harvest moisture
Planted: 6/3/14 - (No-till) at 27,700 seedling population



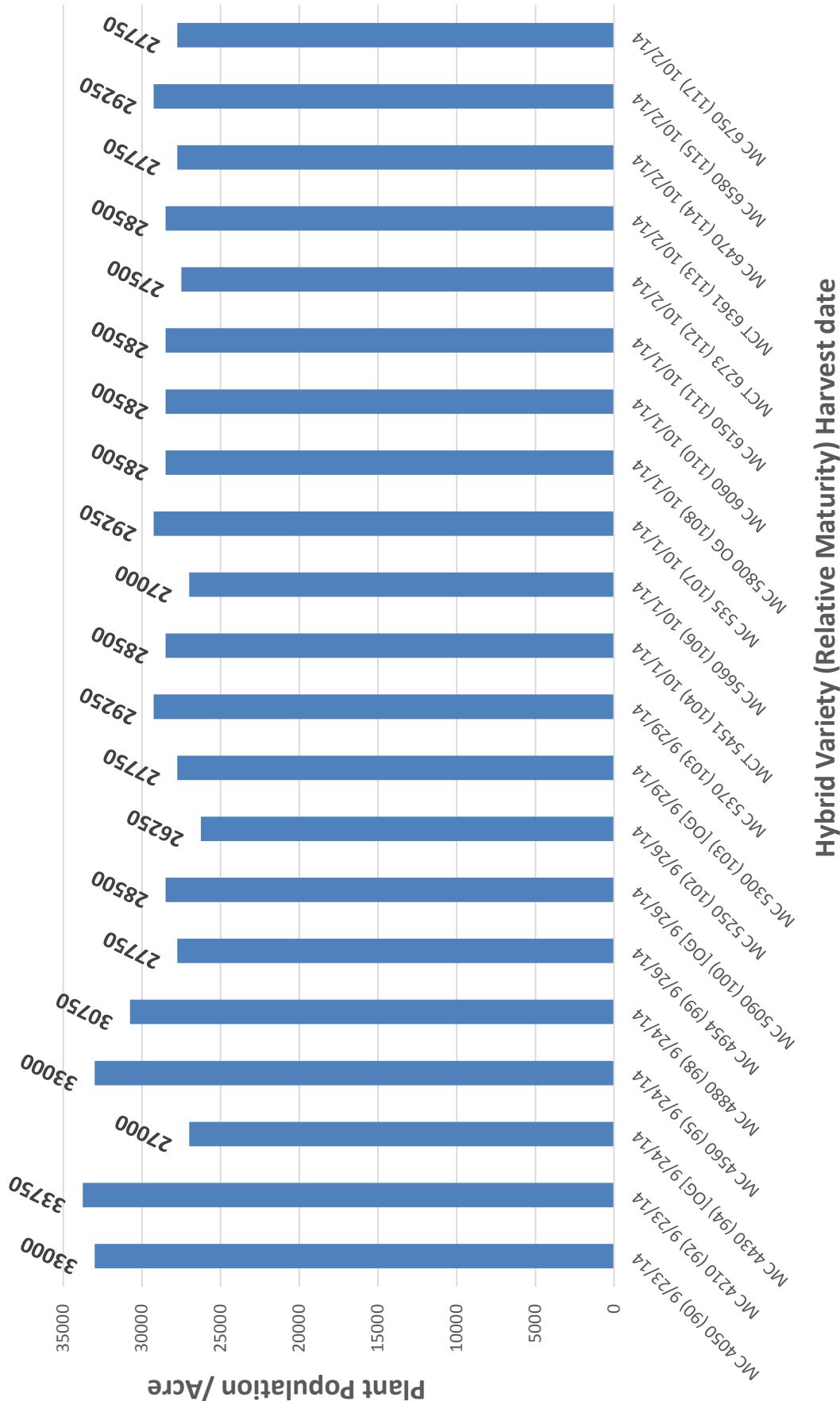
2014 Masters Choice Corn Plot
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
Hybrid, (Relative Maturity) and DAP (Days After Planting on the Harvest Date) & Milk Line at Harvest
Planted: 6/3/14 - (No-till) at 27,700 seeding population



2014 Masters Choice Corn Plot
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
Measured Plant Height & Ear Height in INCHES (3 measurements per Rep x 4 reps)
Planted: 6/3/14 - (No-till) at 27,700 seeding population



2014 Masters Choice Corn Plot
Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA
Plant population of Silage Harvested plots
Planted: 6/3/14 - (No-till) at 27,700 seedling population





2014 Masters Choice Corn Plot

Silage Yield Data

Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA

40°7' 4.81" N, 76°11'27.02" W Elevation: 318 ft.

Planted: 6/3/14 - (No-till planted into cover crop) at 27,700 seeding population

Fertility: Full crop of crimson clover grown as a cover crop in bloom (Sprayed with glyphosate) - Semi-Solid Manure slurry applied over top of crimson clover cover crop, then no-till planted



Soils: Ha A - Hagerstown Silt Loam

Silage Corn data

Hybrid	Relative Maturity	Date Silage Harvested	Silage Harvest Population	Plant height (inches)	Ear height (inches)	Pre-silage harvest disease ranking (1-best, 10-worst)	Silage yield Tons/A (Dry Matter)	Moisture %	Silage Yield Tons/A (65% Moisture)		NEL %NDFd30	Mcallo per Ton	Starch % of DM	7-hr Starch (% of starch)	Population	Ear & Shelled Corn data				
									Silage Yield Tons/A (70% Moisture)	%CP						Grain Harvest Population	Fresh Weight (Tons/Acre)	Ear Weight Fresh Weight (Tons/Acre)	Yield: Bu/Acre of Shelled Corn at 15.5% Moisture	
MC 4050	90	9/23/14	33,000	116.3	49.7	3.0	11.13	62.0	31.81	37.11	7.6	54.2	0.82	3449	45.9	75.2	29,250	9.1	250.0	3.0
MC 4210	92	9/23/14	33,750	119.6	46.9	3.5	9.86	59.0	28.17	32.87	7.8	57.3	0.76	3031	30.8	62.7	23,250	7.7	213.3	4.0
MC 4430	94	9/24/14	27,000	117.8	42.0	4.0	9.44	51.6	26.97	31.46	7.4	52.6	0.76	2730	35.8	63.7	23,250	6.9	180.5	3.0
MC 4560	95	9/24/14	33,000	119.4	44.7	2.5	9.77	63.3	27.92	32.58	7.8	53.3	0.76	3192	33.7	71.8	24,000	7.4	197.8	3.0
MC 4880	98	9/24/14	30,750	126.3	47.4	2.0	13.11	56.9	37.46	43.70	6.9	56.2	0.78	3011	36.1	66.5	26,250	8.8	232.2	3.4
MC 4954	99	9/26/14	27,750	133.8	52.6	1.0	13.47	64.7	38.49	44.90	7.6	57.1	0.78	3397	34.7	76.0	27,000	11.6	258.7	2.3
MC 5090 OG	100	9/26/14	28,500	135.4	57.1	2.5	11.09	62.7	31.67	36.95	6.5	46.3	0.72	2777	27.7	56.4	28,500	8.4	214.5	3.1
MC 5250	102	9/26/14	26,250	138.8	56.5	2.0	13.60	56.5	38.86	45.34	6.7	54.4	0.80	3012	44.2	73.3	27,750	9.8	247.3	2.4
MC 5300 OG	103	9/29/14	27,750	135.8	56.6	2.5	10.97	66.7	31.35	36.57	6.9	49.8	0.74	3137	34.4	70.0	27,750	10.2	248.6	2.5
MC 5370	103	9/29/14	29,250	131.4	47.3	3.0	11.82	61.9	33.78	39.41	7.0	55.3	0.79	3308	38.7	76.7	28,500	9.5	254.6	3.4
MCT 5451	104	10/1/14	28,500	132.1	51.8	4.5	11.37	58.1	32.49	37.91	7.2	51.9	0.80	3047	44.4	68.9	30,000	8.7	226.2	2.6
MC 5660	106	10/1/14	27,000	147.4	56.2	1.5	13.39	59.7	38.26	44.64	7.1	52.9	0.73	2738	26.6	50.4	27,000	10.4	249.8	3.1
MC 5335	107	10/1/14	29,250	136.4	53.0	2.0	12.08	65.3	34.52	40.28	6.5	50.2	0.74	3081	31.3	70.9	28,500	12.2	282.7	3.3
MC 5800 OG	108	10/1/14	28,500	131.4	57.0	1.5	13.32	62.5	38.07	44.41	6.9	53.5	0.78	3219	38.6	69.2	30,000	10.1	244.1	2.8
MC 6060	110	10/1/14	28,500	133.8	55.9	2.5	10.82	66.7	30.90	36.05	7.1	51.1	0.73	3119	31.4	67.6	27,750	11.5	269.7	2.5
MC 6150	111	10/1/14	28,500	137.9	53.0	2.5	13.03	65.9	37.22	43.42	7.2	54.6	0.75	3304	32.5	77.5	25,500	11.3	240.3	3.0
MCT 6273	112	10/2/14	27,500	131.3	53.0	1.5	11.11	63.2	31.74	37.03	7.0	51.7	0.77	3201	39.1	66.3	25,500	10.2	248.8	4.0
MCT 6261	113	10/2/14	28,500	142.0	57.3	2.0	13.66	64.6	39.02	45.52	7.2	52.5	0.75	3200	34.3	65.6	27,750	11.5	250.6	4.0
MC 6470	114	10/2/14	27,750	126.4	44.3	1.0	13.44	64.3	38.39	44.79	7.4	58.4	0.76	3347	33.7	70.7	26,250	11.3	248.8	3.0
MC 6580	115	10/2/14	29,250	138.8	59.7	2.0	13.64	61.4	38.97	45.47	7.0	54.3	0.76	3082	34.6	68.2	27,750	12.2	258.6	3.0
MC 6750	117	10/2/14	27,750	148.1	61.0	1.5	13.83	63.5	39.50	46.09	7.4	53.8	0.74	3079	29.3	60.2	25,500	12.4	281.2	4.0
			Plot Averages →			12.09	61.93	34.55	40.31	7.2	53.4	0.76	3117	35.1	68.0	27,000	10.1	242.8		

Southeastern PA FIRST data: Corn Silage Harvest Report -Green Castle, Franklin County (18 hybrids) Planted 5/19/14, Planting population: 33,500 -Harvested 9/20/14 -RM range from (108 ton 118)

DM Silage Yields from (low 8.31 to high 12.24 Tons/A) average 10.23 Tons/A

Southeastern PA FIRST data: Corn Silage Harvest Report -Mt. Joy, Lancaster County (18 hybrids) Planted 5/28/14, Planting population: 33,500 -Harvested 9/3/14 -RM range from (108 ton 118)

DM Silage Yields from (low 5.55 to high 7.08 Tons/A) average 6.45 Tons/A

Southeastern PA FIRST data: Corn Silage Harvest Report -Gettysburg, Adams County (18 hybrids) Planted 5/20/14, Planting population: 33,500 -Harvested 9/19/14 -RM range from (108 ton 118)

DM Silage Yields from (low 5.64 to high 7.32 Tons/A) average 6.24 Tons/A



2014 Masters Choice Corn Plot
Shelled Corn Grain Yield Data



Eli Weaver's Meadow View Farm, Leola, Lancaster County, PA

Planted: 6/3/14 - (No-till) at 27,700 seeding population. Data is taken from two different fields on the same farm; some hybrids duplicated.

BF = Back Field, Corn after corn, No-till planted - No cover crop, Some corn residue on soil surface, manure applied, weed pressure during growing season. No starter fertilizer & No pre or post emerge synthetic fertility applied. This was a low-fertility growing scenario

EF = East Field Corn Plot No-Till planted into a glyphosate killed cover crop of crimson clover which had semi-solid manure spread on top of it prior to planting. No starter fertilizer & No synthetic pre or post emerge fertility applied.

Hybrid (Relative Maturity) BF= Back Field EF=East Field	Relative Maturity	Date Harvested	Harvest Population	Plant height (inches)	Ear height (inches)	% Moisture at Harvest	Ear Corn Weight at Harvest (Field moisture) Tons/Acre	Shelled Grain Yield Bu/A 15.5% Moisture
EXP 326N BF	80	11/14/2014	27,750	123.7	40.4	16.0	5.77	167.2
MCT 3221 BF	82	11/14/2014	27,750	123.3	42.2	16.2	6.94	200.8
EXP 330M BF	87	11/14/2014	27,000	126.9	55.8	14.9	6.94	215.7
EXP 362N GT BF	88	11/13/2014	27,000	112.2	42.1	18.1	6.75	188.9
MCT 4054 BF	90	11/13/2014	27,000	118.5	48.1	15.0	7.22	212.7
MC 4050 EF	90	10/24/2014	29,250	116.3	49.7	19.1	9.09	238.0
MC 4210 EF	92	10/24/2014	23,250	119.6	46.9	18.0	7.73	258.7
MC 4430 EF	94	10/24/2014	23,250	117.8	42.0	21.9	6.89	214.5
MC 4560 EF	95	10/24/2014	24,000	119.4	44.7	20.7	7.41	232.9
MCT 4564 BF	95	11/11/2014	27,000	125.6	51.6	16.8	6.94	198.5
MC 4880 EF	98	10/25/2014	26,250	126.3	47.4	21.4	8.81	246.3
MCT 4884 BF	98	11/11/2014	30,000	131.3	51.3	17.9	8.71	246.3
MC 4954 EF	99	10/25/2014	27,000	133.8	52.6	30.6	11.58	266.4
MC 5090 OG EF	100	10/25/2014	28,500	135.4	57.1	23.0	8.4	208.4
MC 5250 EF	102	10/25/2014	27,750	138.8	56.5	23.4	9.75	247.2
MC 5300 OG EF	103	10/25/2014	27,750	135.8	56.6	25.6	10.22	247.4
EXP 590N BF	103	11/11/2004	28,500	115.3	45.8	19.5	6.89	187.9
MC 5370 EF	103	10/25/2014	28,500	131.4	47.3	20.6	9.52	247.8
MCT 5371 BF	103	11/11/2014	27,750	121.6	41.4	20	7.27	196.3
MCT 5451 EF	104	10/25/2014	30,000	132.1	51.8	22.2	8.72	209.1
MCT 5451 BF	104	11/8/2014	27,750	116.1	44.7	15.7	6.00	174.7
EXP 574N BF	105	11/8/2014	27,750	107.9	42.2	19.9	7.97	215.6
MC 530 BF	105	11/8/2014	28,500	123.2	49.4	21.7	9.80	256.2
MC 5660 EF	106	10/25/2014	27,000	147.4	56.2	26.2	10.36	256.1
MC 535 EF	107	10/25/2014	28,500	136.4	53.0	28.8	12.23	273.9
MC 535 BF	107	11/14/2014	27,750	131.3	53.6	21.2	9.38	247.6
MC 5800 OG EF	108	10/25/2014	30,000	131.4	57.0	25.9	10.08	225.4
MC 5800 OG BF	108	11/8/2014	27,000	124.3	52.7	21.8	6.94	181.6
EXP 501N BF	109	11/8/2014	27,750	126.4	51.8	19.5	8.95	244.0
MC 6060 EF	110	10/25/2014	27,750	133.8	55.9	28.0	11.53	269.7
MC 6060 BF	110	11/8/2014	27,000	124.6	52.2	19.9	8.91	241.5
EXP 679N BF	110	11/8/2014	29,250	125.8	50.9	22.5	9.47	244.7
MC 6150 EF	111	10/30/2014	25,500	137.9	53.0	34.0	11.3	240.3
MCT 6273 BF	112	11/8/2014	28,500	131.3	53.0	22.1	9.38	243.4
MCT 6273 EF	112	10/30/2014	25,500	116.3	47.3	25.8	10.22	248.8
EXP 698N BF	112	11/8/2014	24,750	133.1	53.3	22.2	9.61	249.3
MCT 6361	113	10/30/2014	27,750	142.0	57.3	32.3	11.48	250.6
MCT 6361 BF	113	11/8/2014	27,750	119.1	49.1	24.8	9.28	230.3
MC 6470	114	10/30/2014	26,250	126.4	44.3	31.8	11.34	248.8
MC 6580	115	10/30/2014	27,750	138.8	59.7	34.2	12.23	258.6
MC 6750	117	10/30/2014	25,500	148.1	61.0	29.7	12.38	281.2



2013-2014 Masters Choice Silage Trial

Dayton, VA

Yield Sort



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	7 Hr 4mm Starchd	% NDF Kd **	% NDF Kd	% Starch Kd	% Milk per Ton
MC590*	116	26500	67.6	35.3	11.3	7.3	24.8	39.0	2.91	57.2	1.9	31.0	73.1	0.75	5.03	19.80	3327
MC6750*	117	26750	66.8	35.2	11.3	7.9	24.5	37.9	2.94	57.8	2.4	29.6	70.0	0.75	5.28	18.20	3157
MC5370	103	26500	62.4	34.8	11.1	7.8	20.4	32.3	2.62	55.4	2.1	38.7	70.4	0.78	5.09	18.95	3219
MC6150	111	26500	67.8	33.7	10.8	7.8	22.4	35.2	2.79	55.2	2.2	35.3	66.4	0.76	5.23	19.10	3421
MC5660	106	26250	65.1	33.7	10.8	7.3	21.0	32.8	2.57	55.5	2.0	39.2	70.0	0.78	5.19	18.80	3410
MC6580	115	26500	65.9	33.5	10.7	8.0	23.1	37.8	2.85	57.4	1.9	32.1	67.9	0.76	5.22	18.75	3274
MC6470	114	26000	67.0	33.2	10.6	8.2	23.3	36.6	2.95	55.2	1.8	32.4	65.5	0.77	4.79	19.15	3311
MC535	107	26500	66.3	32.8	10.5	8.1	21.3	33.4	2.79	54.7	2.1	36.7	68.2	0.78	5.12	17.85	3414
MC5250	102	26500	67.7	32.5	10.4	8.1	22.5	34.7	2.84	54.7	1.9	35.0	67.6	0.77	5.01	19.20	3372
MC5300	103	26500	67.6	32.3	10.4	7.8	23.7	36.8	2.87	55.2	2.1	32.2	71.8	0.76	4.82	20.35	3269
MC6890	118	26500	66.5	32.1	10.3	7.8	23.8	36.8	2.92	54.8	2.4	32.8	67.1	0.75	5.08	18.15	3231
MC530*	105	26500	67.4	31.7	10.2	6.9	19.1	32.0	2.35	55.5	1.6	42.9	72.4	0.79	4.77	19.50	3329
MC4880	98	26500	62.9	31.1	10.0	8.1	20.2	32.3	2.73	54.9	1.5	39.1	69.8	0.79	4.86	18.25	3290
MC5800	108	27000	66.1	30.5	9.7	8.2	21.9	34.9	2.94	55.0	1.9	35.9	66.0	0.77	5.17	18.65	3345
MC4210	92	26500	61.6	29.0	9.3	8.2	20.3	31.9	2.87	51.7	1.9	40.3	71.6	0.78	4.80	18.45	3069
MC4050	90	26500	61.5	28.3	9.0	8.0	21.4	33.8	2.94	52.0	1.7	38.3	72.7	0.78	4.56	18.10	3032
EXP-F	95	26500	61.1	26.9	8.6	8.2	21.7	34.9	2.93	54.1	1.7	36.5	66.6	0.76	5.13	17.55	3052
MC4560	95	26000	59.6	24.9	8.0	8.6	18.9	30.5	2.39	56.9	1.0	44.0	65.9	0.80	5.26	17.70	3209
Averages		26472	65.0	31.7	10.2	7.9	21.9	34.6	2.79	55.2	1.9	36.2	69.0	0.77	5.02	18.69	3263

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note - * Hybrids have quality data only from 2014

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2013-2014 Masters Choice Silage Trial
Loweville, NY
2 Locations Each Year



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin (30 hr)	% NDFd	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC4210	92	31000	66.2	30.5	9.8	7.5	24.2	38.3	3.10	51.9	1.6	34.9	77.8	0.76	4.73	24.05	3183
MC480	87	27000	69.3	28.8	9.2	7.7	25.1	40.7	2.87	56.6	2.0	29.9	84.9	0.76	4.82	24.45	3326
MC5250	102	26667	75.0	27.6	8.8	8.2	27.7	44.0	3.34	56.0	2.3	22.9	85.3	0.73	4.53	27.20	2915
MC3220	82	31000	65.9	27.0	8.6	7.9	24.2	38.8	3.14	55.7	1.3	34.3	75.6	0.76	5.02	20.50	3362
MC4050	90	26250	72.5	23.3	7.5	7.8	25.7	40.5	3.07	54.9	1.8	29.4	83.1	0.76	4.81	26.48	3212
MC468	83	25500	67.5	22.6	7.2	7.9	23.6	37.4	2.73	56.5	1.4	34.1	84.6	0.75	4.64	26.65	3433
Averages		27903	69.4	26.6	8.5	7.8	25.1	39.9	3.04	55.2	1.7	30.9	81.9	0.75	4.76	24.89	3238

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, INDF)



**2013-2014 Masters Choice Silage Trial
2 Year Summary (6-2014 , 3- 2013)
9 Locations (PA - NY - VA)**



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC480	87	28822	63.2	29.2	9.3	7.6	24.1	39.3	3.10	55.5	1.3	35.7	72.8	0.76	4.99	19.80	3213
MC4210	92	30244	61.9	28.9	9.2	7.2	23.5	37.3	3.09	52.1	1.5	37.9	73.1	0.77	4.79	20.21	3089
MC3220	82	29600	60.2	28.7	9.2	7.6	24.0	38.7	3.30	51.9	1.3	36.6	70.6	0.76	4.77	18.54	3031
MC4560	95	27889	64.2	28.5	9.1	7.9	21.7	34.8	2.75	54.8	1.4	39.4	72.3	0.78	5.08	19.37	3357
MC4050	90	28555	66.1	28.3	9.0	7.6	24.6	38.9	3.25	52.1	1.6	35.0	72.4	0.76	4.89	20.27	3206
Averages		29022	63.1	28.7	9.2	7.6	23.6	37.8	3.10	53.3	1.4	36.9	72.2	0.77	4.90	19.64	3179

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2013-2014 Masters Choice Silage Trial
 2 Year Summary (6-2014 , 6- 2013)
 12 Locations (PA - NY - VA)



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin	% NDFd (30 hr)	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
EXP-E	92	28750	62.2	28.6	9.1	7.3	23.9	38.2	2.97	56.2	1.0	38.1	70.0	0.77	4.99	18.80	3218
MC4210	92	29858	59.9	28.2	9.0	7.3	22.7	36.1	3.02	51.7	1.3	39.7	72.1	0.78	4.78	19.94	3050
MC4560	95	28075	63.1	27.9	8.9	7.9	21.5	34.5	2.76	54.5	1.3	40.3	71.6	0.78	5.09	19.10	3285
EXP-F	95	29650	64.1	27.1	8.7	8.0	22.7	36.2	3.10	51.8	1.3	38.2	70.9	0.77	4.87	19.03	3210
<i>Averages</i>		29083	62.3	27.9	8.9	7.6	22.7	36.3	2.96	53.6	1.2	39.1	71.1	0.77	4.93	19.22	3191

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



**2013-2014 Masters Choice Silage Trial
2 Year Summary
13 Locations (7-2014 , 6- 2013) (PA - NY - VA)**



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin (30 hr)	% NDFd	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NDF NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC4880	98	28669	63.2	30.1	9.6	7.5	22.0	35.3	2.85	54.5	1.3	39.3	72.8	0.78	4.92	19.22	3263
MC4210	92	29562	59.5	27.8	8.9	7.3	22.2	35.5	2.97	51.7	1.3	40.3	72.3	0.78	4.77	19.96	3034
MC4560	95	27915	62.5	27.5	8.8	7.9	21.3	34.3	2.74	54.7	1.2	40.3	71.4	0.78	5.09	18.98	3252
EXP-F	95	29369	63.4	26.9	8.6	8.0	22.7	36.3	3.09	52.0	1.2	38.1	70.8	0.76	4.85	18.95	3175
Averages		28879	62.1	28.1	9.0	7.7	22.1	35.3	2.91	53.2	1.3	39.5	71.8	0.78	4.91	19.28	3181

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %Hr, Van Amburgh, iNDF)



2013-2014 Masters Choice Silage Trial
2 Year Summary
17 Locations (10-2014 , 7-2013) (PA - NY - VA)



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% ANDFom	Lignin (30 hr)	% NDFd	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	% Milk per Ton
MC5250	102	28788	65.0	31.3	10.0	7.3	22.9	36.2	2.79	54.9	1.4	37.5	72.8	0.77	4.83	20.28	3284
MC5370	103	27900	64.1	30.1	9.6	7.1	22.8	36.4	2.85	54.1	1.6	37.2	73.9	0.77	4.85	20.65	3251
Averages		28344	64.5	30.7	9.8	7.2	22.8	36.3	2.82	54.5	1.5	37.4	73.4	0.77	4.84	20.46	3268

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



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2013-2014 Masters Choice Silage Trial
2 Year Summary
16 Locations (9-2014 , 7-2013) (PA - NY - VA)



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin (30 hr)	% NDFd	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC5660	106	29008	64.6	31.5	10.0	7.2	23.3	36.9	2.86	54.2	1.6	36.4	71.7	0.77	4.91	20.21	3286
MC535	107	29876	66.2	30.7	9.8	7.2	23.4	37.3	3.02	53.1	1.3	36.5	72.1	0.77	4.73	19.83	3347
Averages		29442	65.4	31.1	9.9	7.2	23.3	37.1	2.94	53.7	1.4	36.5	71.9	0.77	4.82	20.02	3317

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



**2013-2014 Masters Choice Silage Trial
2 Year Summary
8 Locations (4-2014 , 4- 2013) (PA - VA)**



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin (30 hr)	% NDFd Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton	
MC6580	115	28957	65.4	32.6	10.3	7.6	23.1	37.1	2.92	54.6	1.2	36.8	68.4	0.77	4.94	19.90	3340
MC6470	114	29400	66.2	32.5	10.3	7.8	22.0	35.2	2.74	56.6	1.1	38.1	67.8	0.78	4.90	19.14	3499
MC5660	106	29171	63.3	32.2	10.2	7.4	22.1	35.0	2.74	54.2	1.3	38.2	67.2	0.77	4.96	18.76	3252
MCT6361	112	29571	65.6	31.6	10.0	7.6	22.4	35.1	2.83	54.4	1.4	38.1	66.4	0.77	5.00	18.46	3366
MC535	107	29700	65.9	31.4	10.0	7.4	23.6	37.3	3.07	53.1	1.2	36.0	67.6	0.77	4.80	18.30	3305
MC6150	111	28986	65.3	30.6	9.7	7.8	21.1	33.9	2.60	55.8	1.4	38.7	69.6	0.78	5.18	19.76	3456
Averages		29298	65.3	31.8	10.1	7.6	22.4	35.6	2.82	54.8	1.3	37.6	67.8	0.77	4.96	19.05	3370

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)

King's Multi-Location Grain Trials



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2013-2014 Masters Choice Silage Trial
2 Year Summary
7 Locations (4-2014 , 3-2013) (PA - VA)



Hybrid	Maturity Days	Plant Pop.	% Moisture	Tons @ 68%	DM Tons	% CP	% ADF	% aNDFom	% Lignin (30 hr)	% NDFd	% Sugar	% Starch	% 7 Hr 4mm Starchd	% NEL	% NDF Kd **	% Starch Kd	Milk per Ton
MC6750	117	29267	65.7	28.1	9.0	7.9	24.4	38.9	3.00	55.9	1.3	34.3	67.3	0.76	5.10	18.73	3278
MC6580	115	29000	67.1	27.8	8.9	7.6	23.7	37.9	2.93	55.0	1.2	36.1	71.6	0.76	4.96	20.23	3385
MC6890	118	29367	64.2	27.1	8.7	8.0	23.4	37.0	2.95	55.6	1.4	36.5	66.7	0.77	5.17	17.76	3238
Averages		29211	65.7	27.7	8.9	7.8	23.8	37.9	2.96	55.5	1.3	35.6	68.5	0.76	5.08	18.91	3300

Note: Samples were ensiled an average of 13 week prior to analysis

Note: Moisture levels can effect 7 hr starch digestibility - drier silage can have lower 7hr Starchd

Sorted by Yield Highest to Lowest

Red Font Indicates Best Column Value

Note- %NDF Kd*** = NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)



2014 Masters Choice Grain Yield Check
Cooperator: David Showalter
Dayton, VA
Planted: 6/3/2014 Harvested: 10/29/2014



Hybrid	Maturity Days	Population	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Moisture Adjusted Test Weight	Yield Rank 1-31	Disease Rating @ Silage Harvest	Plant Intactness Rating
MC4050	90	26000	13.8	184.2	56.2	16	7.0	5.0
MC4210	92	26000	12.6	153.0	54.5	29	7.0	4.0
MC4560	95	26000	13.7	151.4	57.1	30	6.0	4.0
MC4540	95	26000	13.6	161.1	57.1	27	5.0	4.0
EXP-F	95	26000	14.7	163.0	60.8	26	6.0	4.0
MC4880	98	26000	17.0	165.9	59.9	25	7.0	5.0
MC5090	100	26000	17.1	170.1	60.0	21	8.0	6.0
MC5250	102	26000	18.9	169.3	59.7	24	8.0	5.0
MC5370	103	26000	18.5	227.3	59.9	2	6.0	7.0
MC5300	103	26000	18.1	202.5	59.2	8	8.0	6.0
MC530	105	26000	19.1	190.4	58.8	12	7.0	6.0
MC5660	106	26000	19.1	207.7	58.9	7	8.0	8.0
MC535	107	26000	18.4	188.3	60.4	14	7.0	6.0
MC5800	108	26000	17.1	170.1	57.9	21	8.0	5.0
MC6060	110	26000	17.3	169.5	58.6	23	4.0	4.0
EXP-K	110	26000	21.2	158.6	61.5	28	8.0	9.0
MC6150	111	26000	22.2	196.9	57.9	9	8.0	8.0
EXP-L	112	26000	21.5	191.0	60.1	11	6.0	6.0
MC6470	114	26000	21.7	177.9	59.7	18	8.0	7.0
MC6580	115	26000	20.3	173.8	58.7	20	8.0	6.0
MC590	116	26000	20.2	191.1	60.7	10	8.0	7.0
MC6750	117	26000	22.2	184.6	60.1	15	8.0	7.0
MC6890	118	26000	20.4	148.1	60.9	31	5.0	6.0
Emerge 542	101	26000	16.9	188.7	58.3	13	6.0	8.0
Emerge 580	104	26000	15.3	179.9	58.7	17	7.0	5.0
Emerge 600	107	26000	17.4	234.8	59.7	1	7.0	6.0
Emerge 610	108	26000	16.9	224.6	59.3	4	8.0	7.0
Emerge 619	109	26000	25.1	226.6	59.0	3	7.0	8.0
Emerge 669	111	26000	23.2	213.8	58.6	6	6.0	8.0
Emerge 731	112	26000	21.4	224.6	62.7	5	3.0	9.0
Emerge 849	115	26000	21.9	177.3	62.0	19	7	7

Averages

18.6

186.0

59.3

All Ratings are on a scale of 1-9 where 9 is best



2014 Masters Choice Grain Yield Check
Cooperator: David Showalter
Dayton, VA
Planted: 6/3/2014 Harvested: 10/29/2014



Hybrid	Maturity Days	Population	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Moisture Adjusted Test Weight	Yield Rank 1-23	Disease Rating @ Silage Harvest	Plant Intactness Rating
MC4050	90	26000	13.8	184.2	56.2	10	7.0	5.0
MC4210	92	26000	12.6	153.0	54.5	21	7.0	4.0
MC4560	95	26000	13.7	151.4	57.1	22	6.0	4.0
MC4540	95	26000	13.6	161.1	57.1	19	5.0	4.0
EXP-F	95	26000	14.7	163.0	60.8	18	6.0	4.0
MC4880	98	26000	17.0	165.9	59.9	17	7.0	5.0
MC5090	100	26000	17.1	170.1	60.0	13	8.0	6.0
MC5250	102	26000	18.9	169.3	59.7	16	8.0	5.0
MC5370	103	26000	18.5	227.3	59.9	1	6.0	7.0
MC5300	103	26000	18.1	202.5	59.2	3	8.0	6.0
MC530	105	26000	19.1	190.4	58.8	7	7.0	6.0
MC5660	106	26000	19.1	207.7	58.9	2	8.0	8.0
MC535	107	26000	18.4	188.3	60.4	8	7.0	8.0
MC5800	108	26000	17.1	170.1	57.9	13	8.0	5.0
MC6060	110	26000	17.3	169.5	58.6	15	4.0	6.0
EXP-K	110	26000	21.2	158.6	61.5	20	8.0	9.0
MC6150	111	26000	22.2	196.9	57.9	4	8.0	8.0
EXP-L	112	26000	21.5	191.0	60.1	6	6.0	6.0
MC6470	114	26000	21.7	177.9	59.7	11	8.0	7.0
MC6580	115	26000	20.3	173.8	58.7	12	8.0	6.0
MC590	116	26000	20.2	191.1	60.7	5	8.0	7.0
MC6750	117	26000	22.2	184.6	60.1	9	8.0	7.0
MC6890	118	26000	20.4	148.1	60.9	23	5.0	6.0

Averages

18.2

178.1

59.1

All Ratings are on a scale of 1-9 where 9 is best



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2014 Masters Choice Grain Yield Check
Cooperator: John Glick
Howard, PA
Planted: 5/13/2014 Harvested: 10/30/2014

King's
AgriSeeds^{Inc.}


Hybrid	Maturity Days	Population	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Moisture Adjusted Test Weight	Yield Rank 1-33	Disease Rating @ Silage Harvest	Plant Intactness Rating
EXP-A	80	29000	13.0	178.2	57.6	30	3.0	8.0
MCT3221	82	29000	13.5	171.4	57.0	32	3.0	8.0
EXP-B	87	29000	14.3	186.7	53.6	25	4.0	7.0
MC480	87	29000	15.1	224.3	57.1	10	5.0	9.0
EXP-C	88	29000	16.1	182.9	60.8	27	4.0	7.0
MC4050	90	29000	14.7	219.6	54.8	11	5.0	8.0
EXP-E	92	29000	15.5	189.7	58.3	23	4.0	7.0
MC4210	92	29000	15.2	179.3	56.6	29	5.0	8.0
EXP-F	95	29000	15.1	157.0	56.1	33	6.0	8.0
MC4560	95	29000	15.6	211.8	55.9	14	6.0	7.0
MC4540	95	29000	16.1	205.0	57.7	19	4.0	7.0
MC4880	98	29000	18.5	209.8	59.4	17	6.0	9.0
EXP-G	98	29000	16.8	214.4	59.3	13	2.0	6.0
MC5250	102	29000	18.1	210.9	58.1	15	6.0	7.0
EXP-H	103	29000	18.8	187.7	59.7	24	7.0	8.0
MC5370	103	29000	18.4	231.8	59.9	7	6.0	8.0
MCT5451	104	29000	18.0	194.9	59.1	22	2.0	6.0
EXP-I	105	29000	22.4	204.9	61.3	20	8.0	6.0
MC5660	106	29000	21.3	254.6	59.4	1	7.0	9.0
MC535	107	29000	24.1	210.5	61.6	16	7.0	9.0
EXP-J	109	29000	18.8	209.1	58.6	18	6.0	6.0
EXP-K	110	29000	23.2	248.6	62.0	2	7.0	9.0
MC6150	111	29000	27.0	236.3	59.4	5	8.0	9.0
EXP-L	112	29000	25.1	227.4	60.1	9	7.0	9.0
MC6361	113	29000	28.8	216.4	64.5	12	7.0	9.0
MC6470	114	29000	29.8	236.5	61.8	4	8.0	9.0
MC6580	115	29000	30.0	198.7	62.0	21	8.0	8.0
MC590	116	29000	28.8	230.5	60.9	8	8.0	9.0
EXP-M	117	29000	26.4	175.0	58.9	31	4.0	8.0
MC6750	117	29000	31.4	235.6	63.2	6	8.0	9.0
EXP-N	118	29000	31.9	242.9	63.6	3	8.0	9.0
MC6890	118	29000	22.0	185.4	58.9	26	5.0	8.0
EXP-O	118	29000	31.0	182.4	62.8	28	5.0	9.0

Averages

21.1

207.6

59.4

All Ratings are on a scale of 1-9 where 9 is best



2014 Masters Choice Grain Yield Check
 Cooperator: Bryan Beck
 Tionesta, PA
 Planted: 5/13/2014 Harvested: 11/11/2014



Hybrid	Maturity Days	Population	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Moisture Adjusted Test Weight	Yield Rank 1-28	Disease Rating @ Silage Harvest	Plant Intactness Rating
EXP-A	80	29000	15.4	168.9	57.8	26	6.0	6.0
MCT3221	82	29000	16.9	213.3	57.8	6	6.0	7.0
EXP-B	87	29000	15.8	192.5	55.5	20	6.0	6.5
MCT480	87	29000	18.3	221.5	58.8	5	7.0	6.5
EXP-C	88	29000	20.5	158.8	58.8	27	7.0	7.0
MCT4054	90	29000	17.1	206.9	55.4	10	7.0	6.0
EXP-E	92	29000	17.4	194.5	56.6	19	4.5	6.0
MCT4211	92	29000	17.1	195.1	56.4	18	7.0	6.5
P9329AM	93	29000	17.9	181.6	58.5	23	8.0	6.0
EXP-F	95	29000	17.6	229.2	60.9	1	8.0	6.5
MC4540	95	29000	17.3	200.6	56.0	15	6.0	6.0
MCT4564	95	29000	17.4	224.0	56.6	4	6.0	7.0
P9675AMXT	96	29000	17.6	229.2	58.3	1	4.5	8.0
P9789AMX	97	29000	18.8	202.7	56.6	13	4.5	8.0
EXP-G	98	29000	19.1	207.6	57.8	9	8.0	6.0
MCT4884	98	29000	18.2	192.3	58.2	21	4.5	8.0
P9917AMX	99	29000	19.5	201.0	58.1	14	4.5	7.0
P0094AMX	100	29000	20.0	205.5	58.4	11	6.0	6.0
MC5250	102	29000	20.9	197.4	57.5	16	8.0	7.5
P0210R	102	29000	18.9	225.6	57.1	3	8.0	7.5
EXP-H	103	29000	23.1	186.5	58.6	22	7.0	6.0
MCT5371	103	29000	23.9	211.8	58.6	7	6.0	7.5
MCT5451	104	29000	25.2	208.0	59.1	8	6.0	7.0
EXP-I	105	29000	27.5	181.0	63.3	24	8.0	4.0
MCT5663	106	29000	30.1	179.4	60.8	25	7.0	7.5
MC535	107	29000	30.9	197.2	62.8	17	6.0	7.0
EXP-J	109	29000	23.5	141.8	56.7	28	4.5	6.0
P0970AMXT	109	29000	32.0	203.8	63.1	12	7.0	9.0
Averages			20.6	198.5	58.4			

All Ratings are on a scale of 1-9 where 9 is best



2014 Masters Choice Grain Yield Check
Cooperator: T. Fake
Windsor, PA
Planted: 6/5/2014 Harvested: 12/2/2014



Hybrid	Maturity Days	Population	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Moisture Adjusted Test Weight	Yield Rank 1-28
MC5250 UT	102	28000	19.3	158.4	53.9	5
MC5300	103	28000	20.0	196.8	56.8	1
MC535 UT	107	28000	22.6	172.0	56.0	4
MC535 GENII	107	28000	21.7	176.0	56.6	2
MC5800	108	28000	17.6	173.5	56.9	3
Averages		20.2	175.3	56.0		

Plot was on certified organic land



2014 Masters Choice Replicated Grain Trial Summary
Location: Clayton, DE
Trial: 105 to 115 Days



Hybrid	Maturity Days	Population	% Broken Stalks	% Root Lodged	Harvest Appearance Rating	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
SP111-2GT3	111	31900	1.0	0.0	7.7	24.3	287.5	55.2	a
SXP114-2	114	32000	0.5	0.5	7.7	23.8	280.5	56.7	ab
MCT6470	114	31700	0.5	0.0	8.7	23.7	274.3	56.5	ab
SP708VIP	110	32000	0.0	6.4	6.0	22.1	270.2	56.6	abc
SP619VIP	109	31400	0.0	3.5	8.8	22.2	266.8	56.3	abcd
MCT6583	115	32000	1.5	1.0	8.8	25.1	261.6	56.5	bcde
MCT6153	111	29400	0.0	0.0	8.8	24.1	257.9	54.5	bcde
SX580	105	30800	0.0	0.5	8.8	21.3	256.9	57.2	bcde
MCT5663	106	31700	0.5	0.0	8.7	21.0	249.5	58.1	cdef
XSP114-1	114	32000	0.0	19.1	7.7	25.3	246.3	56.6	def
XSP1054	105	32000	0.0	3.9	8.3	21.4	243.9	56.3	def
SP722GT3	111	32000	0.0	2.0	8.3	23.3	241.2	57.8	ef
SP849VIP	115	31700	0.0	2.5	7.7	23.6	239.7	59.0	ef
MC534	107	32000	0.0	8.3	6.0	21.6	230.0	61.5	f
Averages		31614	0.3	3.4	8.0	23.1	257.6	57.1	
LSD .05							24.5		
CV =								5.7	

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.
A Broken Stalk is defined as broken below the ear



2014 Masters Choice Replicated Grain Trial Summary
Location: Mt Joy, PA
Trial: 102 to 109 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
MCT5451	104	32000	0.0	5.0	21.6	194.4	58.7	a
MCT5375	103	31900	2.0	6.0	20.9	189.0	58.8	a
MCT5663	106	31900	0.0	7.7	20.1	186.6	58.6	a
MC535	107	32000	0.0	7.0	21.0	186.4	59.7	a
EXP-H	103	31700	3.0	7.3	21.3	178.7	59.6	a
MC5250	102	31900	0.0	4.0	20.2	178.0	58.4	a
EXP-J	109	30900	1.5	4.7	21.6	173.9	60.9	a
EXP-I	105	32000	1.0	4.3	21.3	165.1	61.1	a
Averages	31788	0.9	5.8	21.0	181.5	59.5	34.2	
LSD .05								
CV =								

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.
A Broken Stalk is defined as broken below the ear



2014 Masters Choice Replicated Grain Trial Summary
Location: Mt Joy, PA
Trial: 110 to 118 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
MCT6753	117	30500	1.0	8.7	25.6	244.1	56.9	a
EXP-N	118	31200	3.5	8.7	24.0	230.0	57.2	b
MC6470	114	32000	0.0	9.7	23.7	219.6	58.0	bc
EXP-O	118	31900	2.0	8.0	24.6	212.9	56.3	bc
MCT6153	111	29500	0.0	8.0	22.7	206.6	55.0	cd
MCT6361	113	31700	0.0	7.0	23.1	204.4	56.8	cd
MCT6583	115	32000	5.4	7.7	24.0	199.8	56.4	cd
EXP-M	117	32000	0.0	7.7	24.1	189.1	57.0	de
EXP-K	110	31400	1.0	7.0	20.8	186.9	59.8	de
MCT6894	118	31900	0.0	6.0	22.7	175.3	58.0	e
EXP-L	112	29500	0.0	8.3	21.6	172.7	58.0	e
Averages		31236	1.2	7.9	23.4	203.8	57.2	
LSD .05						22.3		
CV =							6.5	

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.
A Broken Stalk is defined as broken below the ear



2014 Masters Choice Replicated Grain Trial Summary
Location: Jersey Shore, PA
Trial: 80 to 90 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Root Lodging	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
MCT4054	90	28700	2.7	5.3	0.0	16.4	202.6	58.5	a
MCT480GT	87	32000	4.9	4.3	0.0	17.0	194.4	59.9	a
EXP-B	87	32000	1.5	5.0	0.0	15.8	187.4	57.7	a
EXP-C	88	31600	1.0	4.7	0.0	17.4	162.2	59.9	b
MCT3221GT	82	30800	1.0	5.0	2.0	16.1	138.9	57.0	c
EXP-A	80	32000	7.8	3.0	1.0	16.3	108.3	51.8	d
Averages		31183	3.2	4.6	0.5	16.5	165.6 19.0	57.5	
LSD .05									
CV =		6.5							

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.

A Broken Stalk is defined as broken below the ear



2014 Masters Choice Replicated Grain Trial Summary

Location: Jersey Shore, PA

Trial: 90 to 98 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Root Lodging	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
EXP-G	98	32000	1.0	3.7	10.3	16.4	207.7	59.3	a
MCT4884	98	31200	10.6	5.3	34.7	17.5	206.2	60.5	a
MCT4564	95	30600	2.6	4.0	4.6	16.6	203.2	58.2	a
EXP-E	92	30800	3.1	5.3	0.0	16.7	194.9	60.5	a
MCT4054	90	29700	2.6	5.3	6.9	16.4	188.9	57.3	a
MC4540	95	32000	9.8	3.0	0.0	16.0	167.5	58.9	b
EXP-D	90	31600	14.4	3.0	1.0	15.7	165.1	59.0	b
MCT4211GT	92	32000	1.0	4.0	32.4	16.2	158.2	58.5	b
EXP-F	95	31400	2.0	6.3	0.0	16.2	153.1	58.2	b

Averages

31256

5.2

4.4

10.0

16.4

182.8

58.9

LSD .05

20.2

CV = 6.4

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.

A Broken Stalk is defined as broken below the ear



2014 Masters Choice Replicated Grain Trial Summary

Location: Cochranville, PA

Trial: 102 to 109 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
MC535	107	31100	1.5	7.7	21.3	255.8	58.2	a
MCT5663	106	30900	0.5	7.0	19.9	244.9	58.2	b
MC5250	102	31100	3.5	5.0	19.1	243.7	59.2	b
MCT5375	103	31100	1.0	7.0	19.4	234.1	58.2	bc
MCT5451	104	30800	0.5	4.0	19.3	228.9	59.2	bcd
EXP-H	103	30500	1.5	4.0	20.0	221.0	60.3	cd
EXP-I	105	31100	3.5	3.0	21.0	215.7	58.7	de
EXP-J	109	29700	1.6	4.7	19.3	199.0	58.9	e

Averages

30788

1.7

5.3

19.9

230.4

17.6

58.9

LSD .05

CV = 4.4

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.

A Broken Stalk is defined as broken below the ear



2014 Masters Choice Replicated Grain Trial Summary

Location: Cochranville, PA

Trial: 111 to 118 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
EXP-O	118	31100	0.0	8.0	25.9	268.6	55.3	a
EXP-N	118	31100	0.0	8.3	24.3	267.2	57.4	a
MCT6753	117	29500	0.5	8.3	25.2	263.4	58.4	a
MCT6361	113	31100	0.0	7.7	23.1	258.6	56.4	ab
MC6470	114	30800	0.0	8.7	23.0	257.9	56.3	ab
EXP-K	110	31100	0.0	8.7	21.6	240.1	57.8	bc
EXP-M	117	30900	0.0	7.7	23.3	233.1	57.1	c
MCT6153	111	27200	0.0	5.0	23.2	229.5	55.2	cd
MCT6583	115	31100	0.5	7.0	24.5	224.5	55.8	cd
EXP-L	112	27600	1.7	6.7	21.7	207.2	56.8	d
MCT6894	118	30900	1.0	4.0	21.2	178.6	58.4	e

Averages

30218

0.3

7.3

23.3

239.0

56.8

LSD .05

23.4

CV =

5.8

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.

A Broken Stalk is defined as broken below the ear



2014 Masters Choice Replicated Grain Trial Summary

Location: Lewisburg, PA

Trial: 80 to 90 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
MCT4054	90	30500	3.1	7.3	17.2	198.8	57.6	a
EXP-B	87	31100	0.0	7.7	16.6	181.4	58.0	ab
MCT480GT	87	31600	1.0	6.0	17.4	178.7	59.5	bc
MCT3221GT	82	32000	1.0	7.3	16.6	175.4	59.8	bcd
EXP-C	88	32000	1.0	6.0	19.4	156.4	60.2	cde
EXP-A	80	32000	1.0	6.3	16.7	152.0	59.8	e
Averages		31533	1.2	6.8	17.3	173.8	59.1	
LSD .05						20.0		
CV =		6.5						

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.

A Broken Stalk is defined as broken below the ear



2014 Masters Choice Replicated Grain Trial Summary

Location: Lewisburg, PA

Trial: 90 to 98 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
MCT4884	98	32000	1.5	8.7	18.1	208.3	58.3	a
MCT4054	90	30600	0.5	7.0	16.7	206.7	57.1	a
MCT4211GT	92	31700	1.0	7.7	16.4	199.6	57.8	ab
MCT4564	95	31400	2.5	6.7	16.7	199.1	56.7	ab
EXP-G	98	32000	1.5	6.7	17.4	184.1	57.8	bc
EXP-F	95	32000	2.0	6.7	16.8	183.6	60.7	bc
EXP-E	92	31700	0.0	5.3	17.2	171.0	58.3	c
MC4540	95	32000	1.5	4.0	15.7	167.7	57.5	c
EXP-D	90	32000	0.0	4.7	15.4	165.1	58.8	c
Averages		31711	1.2	6.4	16.7	187.2	58.1	
LSD .05							20.6	
CV =		6.4						

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.

A Broken Stalk is defined as broken below the ear

Other Crop Trials



2014 Masters Choice Replicated Grain Trial Summary

Location: Lewisburg, PA

Trial: 102 to 107 Days



Hybrid	Maturity Days	Population	% Broken Stalks	Harvest Appearance Rating	% Moisture	BU Yield Adjusted to 15.5 % Moisture	Test Weight	Statistical Difference
MCT5663	106	30900	0.5	8.7	21.0	220.1	55.8	a
MC5250	102	30600	5.1	6.3	19.9	203.1	57.1	ab
EXP-J	109	30800	0.0	5.0	20.9	202.2	55.4	ab
MCT5451	104	30500	2.1	7.3	20.0	195.5	56.3	bc
MCT5375	103	30600	1.0	8.3	20.9	195.4	56.8	bc
EXP-H	103	30800	5.6	6.7	20.3	189.1	57.8	bc
MC535	107	31100	0.0	8.7	22.2	185.0	55.4	bc
EXP-I	105	31100	2.0	4.0	21.3	173.3	55.3	c

Averages

30800

2.0

6.9

20.8

195.4

56.3

24.1

LSD .05

CV = 7.1

Harvest Appearance is a rating from 1-9 where 9 is best. It is a visual rating of the intactness of the plant at harvest.

A Broken Stalk is defined as broken below the ear.



2014 Masters Choice Corn Plot
Shelled Corn Yield Data
Burkholder's Farm, School Road, Fleetwood, Berks County, PA
40°28' 15.25" N, 75°48'47.80" W Elevation: 420 ft.
Planted: 5/26/14 - at 29,700 seeding population, Harvested 11/15/2014



Soils: DbA & DbB - Duffield Silt Loam
Fertility: pig (3/4 southern part of field) and steer manure (1/4 northern part); 4 gallons/A 10-20-10 starter fertilizer at planting

Hybrid	Relative Maturity	% Moisture at Harvest	Test Weight @ 15.5% Moisture	Yield: Bu/Acre of Shelled Corn at 15.5% Moisture
MC 4050	90	13.5	53.9	166.96
MC 4210	92	13.9	56.1	178.39
MC 4430	94	15.3	56.2	129.90
MC 4560	95	14.1	56.6	183.45
MC 4590	95	15.2	55.9	154.18
RM 90 to 95 Average				162.58
MC 4880	98	15.9	58.9	173.73
MC 5090 OG	100	15.0	57.3	152.01
MC 5250	102	15.8	56.1	187.65
MC 5300 OG	103	16.4	56.2	168.10
MC 5370	103	16.5	57.7	171.29
MC 527	105	15.5	55.7	185.86
MC 530	105	18.2	56.2	168.36
RM 98 to 105 Average				172.43
MC 5660	106	15.9	53.6	183.75
MC 534	107	17.3	59.2	191.80
MC 535	107	19.6	57.5	190.19
MC 5800 OG	108	16.2	56.9	162.55
MC 6060 OG	110	16.4	56.8	182.45
MC 6060	110	16.4	56.8	176.28
Exp. 679N	110	17.4	57.7	189.86
RM 106 to 110 Average				182.41
MC 583	111	15.6	55.1	163.71
MC 6150	111	18.7	54.0	206.85
Exp 698N	112	18.5	56.9	163.56
MC 6470	114	21.6	56.6	208.11
RM 111 to 114 Average				185.56
MC 6580 Field Check 1	115	19.4	55.5	195.42
MC 6580 Field Check 2	115	20.7	55.2	186.30
MC 6580 Field Check 3	115	22.3	56.1	189.96
MC 6580 Field Check 4	115	22.0	54.4	202.06
MC 6580 Field Check 5	115	22.6	55.0	195.34
MC 6580 Field Check 6	115	22.5	55.6	189.78
MC 6580 Avg. 6 checks	115	21.58	55.3	193.14
MC 628	115	21.0	56.0	204.77
MC 590	116	19.3	55.9	190.38
MC 6750	117	21.2	57.2	201.33
MC 6890	118	20.0	60.3	176.95
RM 115 to 118 Average				193.31
MC Field Average				180.95

2014 King's AgriSeeds Alfalfa Research Trial

2014 King's Alfalfa Trial		Mt. Joy, PA	Planted	4/6/13	Cut 1	Harvested	5/21/2014
Yield Data					Cut 2	Harvested	6/24/2014
Sorted by Yield					Cut 3	Harvested	7/24/2014
					Cut 4	Harvested	9/12/2014
					Cut 5	Harvested	10/24/2014
Cut 1	Cut 2	Cut 3	Cut 4	Cut 5	Total	Cut 1	Cut 5
DM Yield	DM Yield	DM Yield	DM Yield	DM Yield	Plant	Plant	Plant
Tons/A	Tons/A	Tons/A	Tons/A	Tons/A	Height "	Height "	Height "
					Height "	Height "	Height "
Secure BR	3.3	1.8	1.6	1.6	0.9	24.7	22.0
Traffic Pro OC	3.3	1.9	1.4	1.4	0.7	28.7	21.3
PLH 322 OG	3.2	1.7	1.6	1.4	0.6	25.7	26.0
Enhancer II CT	3.1	1.8	1.6	1.4	0.6	27.3	23.3
Dormancy 6 EXP	3.0	1.8	1.6	1.3	0.8	27.3	24.0
Traffic Pro HL	3.3	1.8	1.4	1.3	0.5	28.7	24.3
525 CT	3.3	1.7	1.6	1.1	0.6	27.0	23.7
E2 631	3.6	1.4	1.4	1.3	0.6	26.3	22.7
Baralfa 42X UC	3.1	1.6	1.5	1.4	0.7	24.0	22.3
E2 640	3.2	1.5	1.4	1.4	0.7	26.7	23.0
Profusion CT	2.9	1.8	1.4	1.3	0.6	27.7	23.7
PLH 322 HL	2.7	1.7	1.6	1.3	0.7	28.3	25.0
Branched Root EXP	2.9	1.5	1.5	1.2	0.7	26.7	23.0
444 CT	3.2	1.4	1.3	1.3	0.5	26.7	22.3
Freedom Red Clover	2.7	1.6	1.2	1.4	0.4	23.3	21.7
Mean	3.1	1.7	1.5	1.3	0.6	28.2	26.6
LSD (.05)	0.6	0.5	0.2	0.3	0.1	23.3	21.8
CV (%)	10.6	9.5	9.3	15.3	10.1	21.1	21.0

2014 King's Alfalfa Trial								
<u>Cut 1 Quality Data</u>								
	%	%	%	%	%	%	%	%
	CP	ADF	aNDForm	Lignin	NDFd 30 hr	Sugar	NEL	Kd Rate
Secure BR	23.5	29.7	33.2	6.39	50.7	7.5	0.62	4.15
Traffic Pro OC	24.2	29.3	32.9	6.30	50.5	7.8	0.63	4.08
PLH 322 OG	23.5	27.7	32.2	5.88	51.1	7.3	0.65	4.39
Enhancer II CT	23.5	29.4	32.4	5.97	52.4	6.3	0.64	4.27
Dormancy 6 EXP	23.5	29.8	33.2	6.80	49.3	7.4	0.62	4.40
Traffic Pro HL								
525 CT	22.9	29.6	34.2	6.04	51.5	7.2	0.63	4.34
E2 631								
Baralfa 42X UC								
E2 640								
Profusion CT	22.8	31.2	34.7	6.79	48.4	6.7	0.61	4.07
PLH 322 HL								
Branched Root EXP								
444 CT								
Freedom Red Clover	19.9	28.6	34.0	6.66	51.5	10.0	0.63	4.34
Mean	23.0	29.4	33.4	6.35	50.7	7.5	0.63	4.26

2014 King's Alfalfa Trial								
<u>Cut 3 Quality Data</u>								
	%	%	%	%	%	%	%	%
	CP	ADF	aNDForm	Lignin	NDFd 30 hr	Sugar	NEL	Kd Rate
Secure BR	22.2	28.7	34.0	6.03	48.7	7.8	0.64	4.67
Traffic Pro OC	22.7	28.5	32.3	5.90	48.3	8.1	0.63	4.17
PLH 322 OG	23.1	29.1	32.5	5.82	47.7	8.8	0.61	3.96
Enhancer II CT	21.0	28.6	33.9	5.73	49.9	8.1	0.63	4.50
Dormancy 6 EXP	21.4	30.7	36.4	6.38	47.2	7.8	0.62	4.48
Traffic Pro HL								
525 CT	21.6	26.8	31.4	5.46	49.2	8.8	0.64	4.36
E2 631								
Baralfa 42X UC								
E2 640								
Profusion CT	23.6	27.5	31.9	5.58	50.0	7.0	0.64	4.27
PLH 322 HL								
Branched Root EXP								
444 CT								
Freedom Red Clover	21.6	30.3	35.8	6.96	47.5	11.1	0.59	4.70
Mean	22.2	28.8	33.5	5.98	48.6	8.4	0.63	4.39

2014 King's Alfalfa Trial								
<u>Quality Data Summary</u>								
<u>Average Cut 1 and 3 Quality Data</u>								
	%	%	%	%	%	%	%	%
	CP	ADF	aNDForm	Lignin	NDFd 30 hr	Sugar	NEL	Kd Rate
Secure BR	22.9	29.2	33.6	6.21	49.7	7.7	0.63	4.41
Traffic Pro OC	23.5	28.9	32.6	6.10	49.4	8.0	0.63	4.13
PLH 322 OG	23.3	28.4	32.4	5.85	49.4	8.1	0.63	4.18
Enhancer II CT	22.3	29.0	33.2	5.85	51.2	7.2	0.64	4.39
Dormancy 6 EXP	22.5	30.3	34.8	6.59	48.3	7.6	0.62	4.44
Traffic Pro HL								
525 CT	22.3	28.2	32.8	5.75	50.4	8.0	0.64	4.35
E2 631								
Baralfa 42X UC								
E2 640								
Profusion CT	23.2	29.4	33.3	6.19	49.2	6.9	0.63	4.17
PLH 322 HL								
Branched Root EXP								
444 CT								
Freedom Red Clover	20.8	29.5	34.9	6.81	49.5	10.6	0.61	4.52
Mean	22.6	29.1	33.4	6.17	49.6	8.0	0.63	4.32

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2014 King's AgriSeeds Grass Mix Research Trial

2014 King's Grass Mixes Trial		Mt. Joy, PA		Cut 1		Harvested 5/21/2014		Cut 2		Harvested 6/24/2014			
Planted 4/6/2013		Cut 3		Harvested 8/5/2014		Cut 4		Harvested 10/24/2014					
4 Cuts in 2014													
Sorted by Yield	Cut 1	Cut 2	Cut 3	Cut 4	Total	Cut 1	Cut 2	Cut 3	Cut 4	Average	Grass Mix	Grass Mix	Average
	DM Yield	DM Yield	DM Yield	DM Yield	DM Yield	Plant	Plant	Plant	Plant	Plant	Disease	Disease	Disease
	Tons/A	Tons/A	Tons/A	Tons/A	Tons/A	Height"	Height"	Height"	Height"	Height"	Rating*	Rating*	Rating*
Lowland Hay	3.1	1.8	1.1	1.3	7.3	24.0	22.0	18.0	14.7	19.7	1.0	1.0	2.0
King's Grazing	2.6	1.4	1.1	1.1	6.2	34.0	28.0	16.3	12.0	22.6	1.0	4.0	3.3
Southern BeefMaster	2.7	1.3	1.0	1.0	6.0	28.0	23.0	18.3	11.7	20.3	1.3	2.0	1.7
BeefMaster	2.2	1.4	1.4	0.9	6.0	26.0	23.0	22.3	11.0	20.6	2.0	1.0	1.7
Versa	2.6	1.3	0.8	0.7	5.5	35.0	23.3	16.3	11.3	21.5	2.0	4.0	2.7
Greenfast	2.1	1.4	0.9	1.0	5.4	26.0	22.0	17.0	11.3	19.1	1.0	3.0	2.3
Hillside	2.3	1.3	1.0	0.8	5.4	31.0	24.0	17.7	12.0	21.2	2.0	4.0	2.3
Horse Supreme	2.6	1.1	0.9	0.8	5.4	34.0	21.0	16.7	12.0	20.9	2.0	3.0	3.3
Dairy Green	2.4	1.2	0.8	0.7	5.1	25.0	20.3	13.7	10.7	17.4	1.0	2.0	1.7
Organic Star	2.2	1.1	0.8	1.0	5.1	28.0	23.0	15.7	13.3	20.0	2.0	2.0	1.0
Organic Partner	2.1	1.1	0.7	0.9	4.8	28.0	21.0	15.7	11.0	18.9	1.7	4.0	2.3
Creekside	2.4	1.1	0.6	0.7	4.7	25.0	19.0	12.3	10.3	16.7	1.0	2.0	1.7
Tri Star	1.9	1.4	0.8	0.6	4.7	23.0	23.7	17.0	13.7	19.3	2.0	3.0	3.3
Leo Trefoil	1.1	1.4	0.7	4.6	20.0	15.0	13.0	9.7	14.4	-	-	-	-
3 Way Clover	2.0	1.5	0.6	0.4	4.5	23.0	21.0	17.7	7.7	17.4	-	-	-
Graze-All	1.9	1.1	0.8	0.6	4.4	31.0	23.7	15.0	10.0	19.9	2.0	3.0	3.7
GrassPro	2.0	1.0	0.6	0.6	4.2	29.0	22.3	15.7	11.3	19.6	2.7	3.0	2.3
Sale Topper	2.0	1.1	0.5	0.5	4.1	31.0	23.7	15.3	10.3	20.1	2.3	4.0	2.3
Clean & Green	2.3	0.9	0.4	0.5	4.1	32.0	17.7	12.3	11.0	18.2	2.0	2.0	2.0
MilkWay	2.0	1.1	0.5	0.5	4.1	24.0	17.3	12.3	9.7	15.8	1.7	4.0	2.3
AlfaMate	1.8	1.0	0.5	0.4	3.8	28.0	24.0	16.0	11.0	19.8	2.0	4.0	2.3
Companion Mix	1.5	0.4	0.1	0.2	2.2	18.0	9.3	6.0	7.7	10.3	2.0	3.0	2.3
Mean	2.2	1.2	0.8	0.7	4.9	27.4	21.2	15.5	11.1	18.8	1.7	2.9	2.3
LSD (.05)	1.2	0.7	0.2	0.3									
cv(%)	16.1	16.6	14.2	24.5									

* Note -Disease Rating scale is 1-9 where 1.0 is no disease and 9.0 would be severe disease.

2014 King's AgriSeeds Alfalfa Based Mix Research Trial

2014 King's Alfalfa Based Mixes Trial																	
Planted 4/6/2013		Mt. Joy, PA		Cut 1 Harvested 5/21/2014		Cut 2		Harvested 6/24/2014									
5 Cuts in 2014				Cut 3 Harvested 8/5/2014		Cut 4		Harvested 9/12/2014									
Sorted by Yield																	
		Cut 1	Cut 2	Cut 3	Cut 4	Cut 5	Total	Cut 1	Cut 2								
DM Yield		DM Yield	DM Yield	DM Yield	DM Yield	DM Yield	Plant	Plant	Plant								
Tons/A		Tons/A	Tons/A	Tons/A	Tons/A	Tons/A	Height "	Height "	Height "								
Performance Max		2.6	2.0	1.9	1.4	1.0	8.9	27.0	23.7								
Haymaster		3.4	2.0	1.4	1.0	0.7	8.4	28.0	22.3								
BrowseMaster		2.5	2.0	1.4	1.1	0.8	7.8	28.0	22.3								
HayBoss		3.2	1.8	1.1	1.0	0.6	7.7	27.0	26.3								
Highland Hay		2.9	1.8	1.3	0.9	0.6	7.4	28.0	22.3								
North Star		2.5	1.7	1.4	1.0	0.7	7.4	30.0	25.0								
Mean		2.8	1.9	1.4	1.1	0.7	7.9	28.0	25.6								
LSD (.05)		13.9	8.0	6.1	10.9	7.9		22.1	20.6								
		0.7	0.3	0.2	0.2	0.1			15.0								
		cv (%)															

2014 King's AgriSeeds Grass Variety Research Trial

2014 King's Grass Trial		Mt. Joy, PA	Planted	4/6/13		Cut 1	Harvested	5/23/2014					
Planted 4/6/2013						Cut 2	Harvested	6/24/2014					
4 Cuts in 2014						Cut 3	Harvested	8/5/2014					
Sorted by Species and Yield						Cut 4	Harvested	10/24/2014					
Sorted by Species		Cut 1	Cut 2	Cut 3	Cut 4	Total	Cut 1	Cut 2	Cut 3	Cut 4	Average	Cut 2*	Cut 3*
	Tons/A	DM Yield	DM Yield	DM Yield	DM Yield	Tons/A	Plant	Plant	Plant	Plant	Disease	Disease	Disease
	Tons/A	Tons/A	Tons/A	Tons/A	Tons/A	Tons/A	Height"	Height"	Height"	Height"	Rating*	Rating*	Rating*
HLR Orchardgrass	3.5	1.7	1.6	1.1	7.9	30.0	28.7	19.7	18.0	24.1	2.3	2.7	2.7
Echelon Orchardgrass	3.0	1.6	1.3	1.1	7.0	26.7	27.0	18.7	14.3	21.7	2.0	2.7	2.7
Niva Orchardgrass	3.1	1.6	1.4	1.0	7.0	28.3	26.0	19.3	16.3	22.5	2.3	3.3	2.6
BarAllergo Orchardgrass	2.8	1.8	1.3	1.1	7.0	26.7	28.0	19.0	16.0	22.4	2.0	2.0	2.0
Lidaeta Orchardgrass - DSV	2.9	1.5	1.2	1.0	6.6	27.7	26.0	18.0	14.7	21.6	2.0	3.7	1.7
Athos Orchardgrass	2.1	1.4	1.2	1.0	5.7	23.7	26.7	18.0	16.0	21.1	2.0	3.7	2.0
Tower Tall Fescue	2.2	1.3	1.2	1.2	5.9	24.7	22.00	17.3	14.3	19.6	1.0	1.7	1.5
Kora Tall Fescue	2.4	1.4	0.9	1.0	5.7	27.7	22.33	16.0	13.3	19.8	1.0	2.0	1.7
BarOptima Tall Fescue	2.0	1.3	1.0	1.1	5.5	24.3	21.33	16.7	13.0	18.8	1.0	2.3	1.3
STF 43 Tall Fescue	2.3	1.4	0.8	0.9	5.3	23.7	22.33	15.0	11.7	18.2	1.0	2.3	2.0
Remington Ryegrass NEA2	1.8	1.4	0.5	0.7	4.4	15.3	18.7	9.3	9.7	13.3	1.0	3.0	2.0
Remington Ryegrass	1.8	1.2	0.6	0.8	4.4	16.7	16.7	10.3	9.3	13.2	1.3	2.7	2.1
BG 24 Ryegrass	1.6	1.2	0.7	0.8	4.3	15.7	19.3	11.0	9.0	13.8	1.0	2.3	1.8
Kentaur Ryegrass	1.6	1.2	0.4	0.7	3.9	17.0	19.3	10.3	9.7	14.1	1.0	3.3	1.7
Astonenergy Perennial Ryegrass - DSV	1.1	1.1	0.6	0.9	3.8	12.3	19.0	10.0	9.3	12.7	1.0	4.0	1.7
BG 34 Ryegrass	1.3	1.0	0.4	0.7	3.4	15.3	15.3	9.3	9.0	12.2	2.0	3.7	2.0
Trojan Ryegrass	0.8	0.9	0.6	0.7	3.0	16.0	9.7	10.0	12.9	1.3	3.0	1.7	2.0
GreenSpirit Italian Ryegrass	2.2	1.4	0.7	0.9	5.2	27.7	22.7	13.0	11.7	18.8	1.0	2.0	1.6
Barmultra II Italian Ryegrass	2.1	1.5	0.4	0.7	4.8	25.0	25.7	11.7	10.7	18.3	1.0	2.3	1.7
Fox Italian Ryegrass	2.0	1.3	0.3	0.6	4.2	26.3	25.7	11.3	11.3	18.7	1.3	2.3	2.0
Fojtan Festulolium	2.2	1.1	1.1	1.0	5.5	24.3	20.3	15.7	13.0	18.3	1.3	3.3	1.7
Pereus Festulolium	2.1	1.7	0.5	0.8	5.1	23.0	23.0	11.0	11.0	17.0	1.0	2.7	2.0
Lifemra Festulolium - DSV	2.3	1.3	0.5	0.8	4.9	22.0	20.0	12.0	11.3	16.3	1.3	4.0	2.4
HDR Meadow Fescue	2.1	1.4	0.7	0.7	4.9	24.0	20.7	13.7	12.3	17.7	1.3	3.3	2.3
Liherold Meadow Fescue - DSV	2.3	1.2	0.7	0.6	4.8	26.0	17.3	13.0	22.7	19.8	2.0	3.3	2.5
Laura Meadow Fescue	1.8	1.3	0.8	0.8	4.7	23.7	19.0	13.3	12.0	17.0	2.0	4.0	2.3
Versa	3.1	1.8	1.3	1.0	7.2	31.7	27.7	18.3	12.7	22.6	1.3	3.0	3.3
TriStar	2.4	1.6	1.1	1.1	6.3	26.7	28.0	17.3	14.3	21.6	2.0	2.7	2.5
Graze-All	2.3	1.6	1.2	0.9	6.1	31.0	26.7	18.0	14.0	22.4	2.0	3.0	4.0
MilkWay	2.0	1.5	1.0	0.9	5.4	24.7	22.00	15.0	13.0	18.7	2.0	3.0	2.4
Mean	2.2	1.4	0.9	0.9	5.3	23.6	22.4	14.4	12.8	18.3	1.5	2.9	2.2
LSD (.05)	0.6	0.3	0.4	0.4									
cv (%)	16.0	13.2	28.7	29.8									

*Note - Disease Rating scale is 1-9 where 1.0 is no disease and 9.0 would be severe disease.

2014 King's Grass Trial									
Cut 1 Quality Data		%	%	%	%	%	%	%	
Sorted by Species		CP	ADF	aNDFom	Lignin	NDFd 30 hr	Sugar	NEL	Kd Rate
HLR Orchardgrass									
Echelon Orchardgrass	10.4	33.0	52.9	3.55	70.2	10.2	0.67	6.71	
Niva Orchardgrass	10.7	32.9	53.7	3.46	71.8	9.2	0.67	6.92	
BarAllergo Orchardgrass	10.0	30.9	50.1	3.31	71.4	11.8	0.69	7.11	
Lidacta Orchardgrass									
Athos Orchardgrass	11.3	32.5	53.1	3.39	72.2	9.0	0.67	6.84	
Tower Tall Fescue	12.2	32.0	53.7	3.03	70.9	9.9	0.65	6.04	
Kora Tall Fescue	11.1	31.0	52.0	2.84	72.4	10.3	0.67	6.67	
BarOptima Tall Fescue	11.8	32.5	55.2	2.89	73.8	9.5	0.66	6.75	
STF 43 Tall Fescue	12.9	30.1	50.3	2.58	74.8	10.5	0.67	6.17	
Remington Ryegrass NEA2									
Remington Ryegrass	9.8	25.6	39.0	3.01	66.8	16.0	0.69	5.47	
BG 24 Ryegrass									
Kentaur Ryegrass	11.5	27.4	42.9	2.68	71.4	13.3	0.69	5.73	
Astonenergy Perennial Ryegrass									
BG 34 Ryegrass	13.8	27.0	42.4	2.62	71.8	11.1	0.71	5.16	
Trojan Ryegrass									
GreenSpirit Italian Ryegrass									
Barmultra II Italian ryegrass									
Fox Italian Ryegrass									
Fojtan Festulolium	13.2	30.6	52.0	2.74	72.9	10.2	0.67	6.28	
Perseus Festulolium	10.8	27.6	43.3	2.66	75.1	12.9	0.70	7.35	
Lifema Festulolium	11.3	27.7	42.0	3.15	70.4	13.2	0.69	6.69	
HDR Meadow Fescue	12.0	27.9	45.7	2.86	71.8	12.7	0.70	7.72	
Liherold Meadow Fescue	10.5	31.0	49.3	2.60	75.0	10.9	0.69	7.18	
Laura Meadow Fescue									
Versa	10.0	35.0	56.0	3.58	70.3	9.2	0.66	6.77	
TriStar									
Graze-All									
MilkWay	12.6	30.8	49.6	2.66	75.0	9.1	0.67	6.69	
Mean	11.4	30.3	49.1	2.98	72.1	11.1	0.68	6.57	

2014 King's Grass Trial									
Cut 3 Quality Data		%	%	%	%	%	%	%	
Sorted by Species		CP	ADF	aNDFom	Lignin	NDFd 30 hr	Sugar	NEL	Kd Rate
HLR Orchardgrass									
Echelon Orchardgrass	16.2	32.8	54.9	4.06	69.8	7.7	0.68	5.81	
Niva Orchardgrass	15.3	33.4	55.5	3.93	68.8	7.5	0.67	5.65	
BarAllergo Orchardgrass	14.6	33.0	53.9	3.85	69.1	8.6	0.67	5.54	
Lidacta Orchardgrass									
Athos Orchardgrass	14.9	35.1	56.7	4.32	65.6	6.8	0.65	5.50	
Tower Tall Fescue	14.1	30.9	48.4	3.17	74.8	10.5	0.69	6.12	
Kora Tall Fescue	15.8	33.5	51.4	3.10	75.6	8.3	0.67	5.96	
BarOptima Tall Fescue	14.3	32.6	51.0	3.37	72.9	9.2	0.67	6.02	
STF 43 Tall Fescue	15.2	31.4	48.8	3.28	75.0	9.3	0.68	6.24	
Remington Ryegrass NEA2									
Remington Ryegrass	14.4	31.3	45.2	4.07	65.8	11.1	0.66	5.74	
BG 24 Ryegrass									
Kentaur Ryegrass	17.1	31.1	44.4	4.34	62.0	10.8	0.66	4.98	
Astonenergy Perennial Ryegrass									
BG 34 Ryegrass	18.0	30.2	43.4	4.45	61.3	10.6	0.66	4.96	
Trojan Ryegrass									
GreenSpirit Italian Ryegrass									
Barmultra II Italian ryegrass									
Fox Italian Ryegrass									
Fojtan Festulolium	14.2	32.3	55.2	3.63	67.8	8.6	0.66	5.18	
Perseus Festulolium	20.0	28.2	45.3	3.79	68.3	9.6	0.68	4.65	
Lifema Festulolium	17.7	31.0	49.1	3.40	70.3	9.0	0.65	5.38	
HDR Meadow Fescue	17.0	29.6	46.2	3.34	74.0	8.4	0.71	6.10	
Liherold Meadow Fescue	16.4	30.0	46.4	3.39	72.0	8.2	0.70	5.93	
Laura Meadow Fescue									
Versa	14.1	35.1	55.9	4.43	68.9	7.5	0.64	6.12	
TriStar									
Graze-All									
MilkWay	16.5	28.8	50.4	3.47	72.0	9.2	0.67	6.26	
Mean	15.9	31.7	50.1	3.74	69.7	8.9	0.67	5.67	

2014 King's AgriSeeds Spring Annuals Research Trial

2014 King's AgriSeeds Fall Annual Research Trial

2014 King's Fall Oat Trial										2014 King's Fall Oat Trial											
Mt. Joy, PA					Planted - 8/28/2014					Harvested - 10/27/2014					Mt. Joy, PA						
DM Yield	Significance	Tons @	Plant	Height "	Plant	Plant	Height "	Plant	Height "	Table	Extended	Feekes	%	%	ADF	aNDFom	Lignin	NDFd 30 hr	Sugar	Kd Rate	RFQ
Tons/A	Ranking	65%	65%	65%	65%	65%	65%	65%	65%			@ Harvest	CP	CP	CP	CP	CP	CP	CP	CP	
Badger Oats	2.3	a	6.4	25.3	30.7	10.5	13.3	37.2	53.2			31.4	47.2	2.79	85.1	9.6	6.62	6.28	148		
AC King's Barley	2.1	ab	6.1	23.7	28.3	8.5	16.1													148	
(AC King's Barley + Reeves)	2.1	ab	6.0	21.0	27.7	8.5 - 8	19.3	29.0	44.3											186	
CDCC Haymaker	2.1	ab	6.0	18.0	35.0	7.0	19.3	27.3	42.4											195	
(AC King's Barley + Prolief 234)	2.0	bc	5.7	21.3	28.3	8.5 - 7	17.4	31.0	45.6											173	
EXP Spring Malting Barley	1.9	bcd	5.4	18.3	23.0	7.0	18.8	29.8	43.9											168	
Prolief Oat*	1.9	bcd	5.4	19.1	27.0	7.0	20.5	26.5	40.7											204	
Pronghorn Spring Triticale + Reeves	1.9	cde	5.3	19.7	29.3	10.1 - 8.3	19.5	27.5	42.9											189	
TritOats	1.8	cde	5.3	20.7	32.0	7.0	20.7	26.6	40.8											196	
Everleaf 126	1.8	def	5.2	18.0	30.0	7.0	20.6	25.5	39.4											198	
Forage Maker 50	1.7	def	5.0	18.7	28.3	7.0	19.7	25.8	39.5											197	
Bay Oats	1.7	def	4.9	19.3	27.0	5.0	20.8	27.2	41.6											195	
Reeves Oats	1.7	def	4.9	20.7	31.3	8.1	18.4	28.2	43.7											215	
EXP Oat*	1.7	e fg	4.9	17.0	29.0	7.0	21.4	25.2	39.4											198	
Prolief 234	1.7	e fg	4.9	19.3	28.3	7.0	18.6	27.2	42.0											201	
Jerry Oats	1.6	e fg	4.6	17.3	28.3	7.0	19.7	27.0	42.1											212	
Oats Plus	1.6	e fg	4.5	20.0	32.3	7.0	21.1	25.9	35.1											193	
EXP Spring Triticale*	1.5	fg	4.4	19.0	29.8	7.0	21.8	27.6	42.5											162	
CARGO	1.5	fg	4.3	20.0	31.7	7.0	20.5	27.1	41.1											203	
DoublePlay	1.5	fg	4.2	19.0	29.0	7.0	22.1	25.3	38.8											188	
Pronghorn Spring Triticale	1.5	g	4.2	18.3	27.3	10.1 - 7	17.6	27.2	41.4											198	
Pronghorn Spring Triticale	1.4	g	4.0	21.0	27.3	10.1	21.4	26.7	41.7											181	
Mean		1.8	5.1	19.8	29.1		19.5	27.8	42.2											192	
LSD (.05)		0.2																			
CV (%)		6.6																			

Note: *Entries had only enough seed for 1 plot replication
 Red Font in the Best Value for that Trait

2014 King's AgriSeeds Spring Barley and Spring Triticale Soft Dough Research Trial

2014 King's Agriseeds Winter Triticale Research Trial

2014 King's Agriseeds Winter Triticale Research Trial

Other Traits	Plot	Early Vigor	Early Growth Rating	Plant Rating	Height "
	Quality	Rating	4/24/2014	5/2/2014	
EXP Triticale	1.0	2.7	1.0	30.3	
EXP Triticale	1.0	2.7	2.3	33.7	
EXP Triticale	1.0	1.0	1.0	31.7	
Tritic 718	1.3	2.0	1.3	35.3	
EXP Triticale	1.0	2.0	1.3	36.0	
EXP Triticale	1.0	2.0	2.7	26.0	
EXP Triticale	1.7	3.0	2.0	27.7	
Tritic 815	1.7	3.0	2.3	27.0	
TriMark 099	1.0	2.3	2.0	27.3	
Tritic 336	1.0	1.0	1.0	26.3	
Tritic 141	1.3	2.7	2.0	33.0	
EXP Triticale	1.3	6.3	3.7	23.0	
EXP Triticale	1.0	4.7	3.7	24.3	
EXP Triticale	1.3	1.7	2.7	27.0	
EXP Triticale	1.3	6.7	4.0	22.0	
EXP Triticale	1.3	5.0	3.7	24.0	
Huron Rye	1.0	1.0	1.0	28.0	
Danko Rye	1.0	1.0	1.0	27.7	
Valor Barley	6.3	6.7	4.7	26.8	
Atlantic Barley	6.7	7.0	4.7	24.0	
EXP Barley	5.7	6.3	4.0	24.8	
Comments					
*Disease, Vigor and Early Growth Rating are on a scale of 1-9 where 1 is best					
Cereal Rye and Barley were harvested prior to Triticale.					

2014 King's AgriSeeds Non Dwarf Summer Annual Research Trial

2014 King's Standard Sorghum Sudan Trial										Previous Crop - Sorghum																	
Sorted by Yield					Mt. Joy, PA					Planted 6/18/14					Cut 1 Harvested 7/25/14					Fertility 45 units of N from AMS each harvest							
DM Yield	DM Yield	DM Yield	Tons/A	Tons/A	Cut 1	Cut 2	Total	Tons/A	Tons/A	CP %	ADF %	aNDFom %	Cut 1	Quality	Sugar %	NDFd 30 hr %	NEl	Kd Rate	CP %	ADF %	aNDFom %	Cut 2	Quality	NDFd 30 hr %	Sugar %	NEl	Kd Rate
EX/P BMR Sorghum Sudan	2.8	2.5	5.3	11.2	29.2	54.2	2.66	79.3	13.2	0.67	6.61	12.9	31.4	54.7	2.75	69.0	11.3	0.64	2.75	31.4	54.7	2.75	69.0	11.3	0.64	5.51	
HAWKING	1.8	3.0	4.8	16.0	27.4	53.3	2.60	76.8	12.8	0.69	7.38	11.9	33.2	56.8	3.61	62.5	10.3	0.63	3.61	33.2	56.8	3.61	62.5	10.3	0.63	5.22	
WONDERLEAF	2.1	2.6	4.7	16.9	28.7	52.0	2.61	80.2	10.7	0.65	6.83	13.6	33.5	49.6	2.92	62.3	10.0	0.57	2.92	33.5	49.6	2.92	62.3	10.0	0.57	4.80	
EXP Millet	1.7	2.8	4.5	15.7	35.6	54.4	3.36	75.6	8.1	0.65	6.59	11.8	34.1	53.7	2.82	64.0	10.8	0.58	2.82	34.1	53.7	2.82	64.0	10.8	0.58	4.77	
EX/P BMR Sorghum Sudan	2.2	2.2	4.4	16.3	27.5	53.6	2.05	78.3	11.9	0.70	6.72	13.4	32.9	55.7	2.57	65.0	10.5	0.60	2.57	32.9	55.7	2.57	65.0	10.5	0.60	5.29	
AS 5501	2.2	2.1	4.3	15.1	28.7	55.1	2.48	77.8	12.0	0.68	7.17	14.9	32.9	55.6	3.09	66.5	8.0	0.62	3.09	32.9	55.6	3.09	66.5	8.0	0.62	5.49	
AS 3901	1.8	2.4	4.2	16.9	29.7	56.2	2.40	77.4	11.3	0.68	7.20	12.6	32.2	55.7	2.82	68.1	10.0	0.63	2.82	32.2	55.7	2.82	68.1	10.0	0.63	5.31	
EX/P BMR Sorghum Sudan	2.0	1.8	3.8	15.0	29.7	55.8	2.34	76.5	11.7	0.68	6.69	12.5	32.8	55.4	2.89	62.9	9.5	0.61	2.89	32.8	55.4	2.89	62.9	9.5	0.61	4.76	
EX/P BMR Sorghum Sudan	2.0	1.8	3.8	17.2	28.1	54.1	2.93	72.1	11.2	0.68	7.16	13.0	31.6	55.1	3.16	64.1	11.2	0.61	3.16	31.6	55.1	3.16	64.1	11.2	0.61	5.52	
Mean	2.1	2.4	4.4	15.6	29.4	54.3	2.60	77.1	11.4	0.68	6.93	13.0	32.7	54.7	2.96	64.9	10.2	0.61	2.96	32.7	54.7	2.96	64.9	10.2	0.61	5.19	
LSD (.05)	0.5	0.5																									
cv (%)	11.6	12.1																									
Other Traits										Total	Cut 1	Cut 2	Average	Cut 1	Cut 2	Average	Cut 1	Cut 2	Average	Cut 1	Cut 2	Average	Cut 1	Cut 2	Average		
Yield					Plant					Plant	Height	Height	at	Moisture	Moisture	at	Harvest	Harvest	at	Variety	Variety	Description					
2 Cuts @					Height					Height	Height	Height	at	Moisture	Moisture	at	Harvest	Harvest	at								
65% Moisture					Cut 1					Cut 1	Cut 2	Average															
EX/P BMR Sorghum Sudan	15.1				48.3	42.3	45.3			84.1			81.7			82.9											
HAWKING	13.9				49.3	49.3				86.5			77.8			82.2											
WONDERLEAF	13.3				37.0	36.3	36.7			86.4			79.1			82.8											
EXP Millet	12.8				30.0	32.0				86.3			77.3			81.8											
AS 5501	12.4				46.7	40.7	43.7			86.3			82.5			84.4											
AS 3901	12.2				46.3	38.7	42.5			86.4			81.8			84.1											
EX/P BMR Sorghum Sudan	10.9				48.0	43.3	45.7			87.9			81.6			84.8											
EX/P BMR Sorghum Sudan	10.7				36.0	30.7	33.4			87.1			81.7			84.4											
Mean	12.6				43.1	39.3	41.2			86.4			80.6			83.5											

Red Font in the Best Value for that Trait

This trial was in a different part of the field than the non dwarf trial where there was better soil moisture

2014 King's AgriSeeds Dwarf Summer Annual Research Trial

2014 King's Dwarf Sorghum Sudan Trial																							
Sorted by Yield		Mt. Joy, PA			Planted 6/18/14			Cut 1 Harvested 7/25/14			Fertility 45 units of N from AMS each harvest												
		DM Yield		DM Yield		Cut 1 Quality			Cut 2			Quality											
Tons/A	Tons/A	Cut 1	Cut 2	Tons/A	Total	CP %	ADF %	aNDFom %	Lignin %	NDFd 30 hr %	Sugar %	NEI	Kd Rate	CP %	ADF %	aNDFom %	Lignin %	NDFd 30 hr %	Sugar %	NEI	Kd Rate		
AS 3902	2.6	2.6	5.2	16.7	29.0	55.0	2.33	77.2	11.2	0.69	6.92	13.4	32.6	55.4	3.00	63.4	9.5	0.62	4.84				
EXCEED BMR Millet	2.1	2.9	4.9	14.5	34.7	54.4	2.73	79.7	8.5	0.66	6.93	10.5	35.3	53.0	2.74	64.6	9.5	0.56	4.50				
AS 6402	2.4	2.3	4.7	15.4	30.2	55.5	2.37	78.0	10.6	0.68	7.08	13.2	33.2	52.7	2.59	61.1	9.5	0.57	4.57				
EXP Dwarf Sorghum Sudan	2.2	2.4	4.6	16.4	29.3	54.9	2.33	78.3	10.9	0.68	7.10	14.3	32.7	51.1	2.74	58.7	10.3	0.58	4.47				
EXP Dwarf Sorghum Sudan	2.1	2.3	4.4	16.9	29.9	55.9	2.30	77.5	10.5	0.69	7.09	12.5	34.2	53.5	2.86	57.9	9.6	0.57	4.11				
Mean	2.3	2.5	4.8	16.0	30.6	55.1	2.41	78.1	10.3	0.68	7.02	12.8	33.6	53.1	2.79	61.1	9.7	0.58	4.50				
LSD (.05)	0.4	0.5																					
cv (%)	8.6	10.9																					
Other Traits												Description											
Total Yield		Cut 1 Plant		Cut 2 Plant		Moisture at at at			Moisture at at at			Variety											
2 Cuts @ 65% Moisture		Cut 1 Height		Height		Harvest Harvest Harvest			Harvest Harvest Harvest														
AS 3902	14.8	42.0	38.3	40.2		84.6		79.7		82.2		A Gene 6 BMR Dwarf Sudangrass											
AS 6402	14.1	41.7	36.3	39.0		86.4		78.1		82.3		A Gene 6 BMR Dwarf Sorghum Sudangrass											
EXCEED BMR Millet	14.1	36.3	33.0	34.7		85.4		79.2		82.3		A BMR Dwarf Pearl Millet											
EXP Dwarf Sorghum Sudan	13.0	42.3	34.3	38.3		86.9		79.4		83.2		A Gene 6 BMR Dwarf Sorghum Sudangrass											
EXP Dwarf Sorghum Sudan	12.5	43.3	35.7	39.5		87.7		80.5		84.1		A Gene 6 BMR Dwarf Sorghum Sudangrass											
Means	13.7	41.1	35.5	38.3		86.2		79.4		82.8													
Red Font in the Best Value for that Trait																							

2014 King's AgriSeeds Forage Sorghum Boot Stage Harvest Research Trial

2014 King's AgriSeeds Forage Sorghum Soft Dough Harvest Research Trial

2014 King's AgriSeeds Soybean Research Trial

2014 King's Soybean Trials		Planted - 6/2/2014			Harvested - 11/3/2014					
Lewisburg, PA										
Sorted by Maturity		Lodge**	Plant	%	Test	Yield	Significance	Maturity	Brand	Traits
Variety	Rating	Height	Moisture	Weight	Adjusted to 13.5%	Ranking	Group			
360SB	2.7	32.7	11.6	58.5	62.5	a	3.6	Crissinger	Conventional	
EXP-L	1.7	33.3	11.6	59.2	52.2	bcd	3.6	Sun Prairie	Roundup Ready	
SP 36R24	1.7	33.0	11.4	59.3	50.7	bcde	3.6	Sun Prairie	Roundup Ready	
EXP-C	1.7	31.3	11.7	58.9	57.1	ab	3.4	Other	Conventional	
EXP-D	1.7	30.7	11.6	59.4	51.7	bcd	3.4	Other	STS	
EXP-P	2.0	32.0	11.7	60.0	49.4	cde	3.4	Sun Prairie	Conventional	
SP 3384N	1.7	30.7	11.5	60.4	55.0	abcd	3.3	Sun Prairie	Conventional	
EXP-O	1.3	32.7	11.4	58.5	56.3	abcd	3.1	Sun Prairie	Roundup Ready	
EXP-B	1.7	32.3	11.5	59.7	49.7	bcde	3.1	Other	Conventional	
SP 31R22	1.7	28.7	11.6	59.2	48.8	de	3.1	Sun Prairie	Roundup Ready	
EXP-N	2.0	29.0	11.6	58.7	56.9	abc	2.9	Sun Prairie	Roundup Ready	
SP 2984N	1.7	31.0	11.5	59.1	49.3	cde	2.9	Sun Prairie	Roundup Ready	
EXP-A	2.0	24.7	11.4	57.6	45.1	e	2.9	Other	Conventional	
EXP-W	2.0	31.3	11.4	58.9	48.6	de	2.8	Sun Prairie	Roundup Ready	
EXP-V	1.7	30.0	11.7	58.6	46.7	e	2.8	Other	Conventional	
EXP-U	1.3	27.3	11.8	59.4	45.3	e	2.7	Other	Conventional	
EXP-T	2.0	31.0	11.6	58.5	46.8	e	2.6	Other	Conventional	
EXP-S	1.0	26.7	11.9	58.8	48.6	de	2.2	Other	Conventional	
EXP-R	2.0	25.7	11.6	58.9	44.4	e	2.1	Other	Conventional	
Mean	1.8	30.2	11.6	59.0	50.8					
CV =					9.3					
LSD .05					7.8					

**Lodge Rating is on a scale of 1-9 where 1 is best

2014 King's Agriseeds Soybean Research Trials

2014 King's Soybean Trials			Planted - 4/28/2014			Harvested - 10/9/2014					
Cochranville, PA											
Sorted by Maturity											
Variety	Rating	Lodge**	Plant	%	Moisture	Test	Yield	Adjusted to 13.5%	Ranking	Maturity	Company
			Height	Weight						Group	Brand
SP 31R22	2.3	42.3	13.9	59.4	76.5	a	3.1	Sun Prairie	Roundup Ready		
EXP -O	3.0	42.0	13.8	59.3	73.3	ab	3.1	Sun Prairie	Roundup Ready		
EXP-B	3.0	41.7	13.9	60.2	72.2	ab	3.1	Other	Conventional		
SP 3384N	4.0	41.3	14.1	59.7	67.3	abc	3.3	Sun Prairie	Conventional		
EXP-N	3.7	41.0	13.7	59.4	64.4	abc	2.9	Sun Prairie	Roundup Ready		
EXP-A	2.7	36.0	13.7	58.9	63.4	bc	2.9	Other	Conventional		
SP 2984N	3.0	41.0	14.1	59.4	57.8	c	2.9	Sun Prairie	Conventional		
EXP-C	3.0	36.3	13.6	59.7	76.4	a	3.4	Other	Conventional		
SP 36R24	3.0	44.0	13.5	59.1	73.9	a	3.6	Sun Prairie	Roundup Ready		
EXP-D	3.3	37.7	13.9	59.5	73.2	ab	3.4	Other	STS		
EXP-E	2.7	49.0	13.8	60.6	72.7	ab	3.5	Other	STS		
360SB	5.7	43.7	13.8	59.6	71.5	ab	3.6	Crissinger	Conventional		
EXP-G	3.7	40.0	13.8	59.1	70.2	ab	3.6	Other	STS		
EXP-P	5.0	42.7	14.1	59.4	69.0	ab	3.4	Sun Prairie	Conventional		
EXP-F	2.3	43.7	14.2	60.3	68.8	ab	3.5	Other	Conventional		
EXP-L	2.7	43.0	14.0	59.6	61.0	b	3.6	Sun Prairie	Roundup Ready		
SP3884N	3.3	41.0	13.6	59.3	72.7	a	3.8	Sun Prairie	Conventional		
EXP-H	3.0	39.3	13.6	59.7	70.7	a	3.7	Other	Conventional		
EXP-Q	5.0	46.3	13.7	59.9	69.1	a	3.8	Sun Prairie	Conventional		
EXP-I	4.7	40.3	13.7	59.0	66.1	a	3.8	Other	Conventional		
EXP-M	3.0	47.3	14.0	59.2	64.0	a	3.8	Sun Prairie	Roundup Ready		
EXP-J	3.7	43.0	13.9	59.6	68.4	a	4.1	Other	Conventional		
SP39R22	4.7	46.3	14.1	59.6	65.8	a	3.9	Sun Prairie	Roundup Ready		
EXP-K	4.3	47.7	14.1	58.8	56.7	a	4.3	Other	Conventional		
Mean	3.5	42.4	13.9	59.5	68.6						
CV =											
LSD .05											

**Lodge Rating is on a scale of 1-9 where 1 is best

10.9

12.3

2014 King's AgriSeeds Soybean Research Trial

2014 King's Soybean Trials		Cochranville and Lewisburg, PA						
Sorted by Yield								
	Lodge**	Plant	%	Test	Yield	Maturity	Brand	Traits
Variety	Rating	Height	Moisture	Weight	Adjusted to 13.5%	Group		
360SB	4.2	38.2	12.7	59.1	67.0	3.6	Crissinger	Conventional
EXP-C	2.3	33.8	12.7	59.3	66.7	3.4	Other	Conventional
EXP-O	2.2	37.3	12.6	58.9	64.8	3.1	Sun Prairie	Roundup Ready
SP 31R22	2.0	35.5	12.8	59.3	62.7	3.1	Sun Prairie	Roundup Ready
EXP-D	2.5	34.2	12.7	59.5	62.5	3.4	Other	STS
SP 36R24	2.3	38.5	12.5	59.2	62.3	3.6	Sun Prairie	Roundup Ready
SP 3384N	2.8	36.0	12.8	60.1	61.2	3.3	Sun Prairie	Conventional
EXP-B	2.3	37.0	12.7	59.9	61.0	3.1	Other	Conventional
EXP-N	2.8	35.0	12.7	59.1	60.7	2.9	Sun Prairie	Roundup Ready
EXP-P	3.5	37.3	12.9	59.7	59.2	3.4	Sun Prairie	Conventional
EXP-L	2.2	38.2	12.8	59.4	56.6	3.6	Sun Prairie	Roundup Ready
EXP-A	2.3	30.3	12.6	58.3	54.3	2.9	Other	Conventional
SP 2984N	2.3	36.0	12.8	59.2	53.5	2.9	Sun Prairie	Conventional
Mean	2.6	35.9	12.7	59.3	61.0			

**Lodge Rating is on a scale of 1-9 where 1 is best