



2013

MICHIGAN CORN HYBRIDS COMPARED

MICHIGAN STATE UNIVERSITY | Extension

WEATHER PAGE 4
CORN GRAIN PAGE 7
CORN SILAGE PAGE 28
HANDY Bt TRAIT TABLE PAGE 43

Extension Bulletin E-431 December 2013

COMPANY INDEX

BRAND	CONTACT	BRAND	CONTACT	BRAND	CONTACT
AGRIGOLD	AgriGold Hybrids 5381 Akin Rd St. Francisville, IL 62460 www.agrigold.com	GOLDEN HARVEST	Syngenta Seed 11055 Wayzata Blvd. Minnetonka, MN 55440 www.syngenta.com	PIONEER	DuPont Pioneer 6900 W. 62nd Ave. Johnston, IA 50131 www.pioneer.com
AGVENTURE	AgVenture of Michigan P.O. Box 36 Chesaning, MI 48616 www.AgVenture.com	GREAT LAKES	Great Lakes Hybrids 9915 West M21 Ovid, MI 48866 www.greatlakeshybrids.com	RENK	Renk Seed Company 6809 Wilburn Road Sun Prairie, WI 53590 www.renkseed.com
BECK	Beck's Hybrids 6767 E. 276th Street Atlanta, IN 46031 www.beckshybrids.com	HYLAND SEEDS	Hyland Seeds #5 Hyland Drive P.O. Box 1090 Blenheim, ON N0P 1A0 www.hylandseeds.com	RUPP	Rupp Seeds, Inc. 17919 Co. Rd. B Wauseon, OH 43567 www.ruppseeds.com
BLUE RIVER	Blue River Seed 27087 Timber Road Kelly, IA 50134 www.blueriverorgseed.com	INTEGRA SEED	Wilbur-Ellis Company 2219-229 th Place Ames, IA 50014 www.wilbur-ellis.com	SEED CONSULTANTS	Seed Consultants, Inc. 648 Miami Trace Rd. SW Washington C. H., OH 43160 www.seedconsultants.com
CB SEEDS	Brownseed Genetics, LLC P.O. Box 7 Bay City, WI 54723 www.cbseeds.com	KEY	AGRA Solutions, LLC 23778 Delphos Jennings Road Delphos, OH 45833 www.agrasolutions.com	SELECT	Select Seed 277 West State Rd. 218 Camden, IN 46917 www.selectseed.com
CHANNEL	Monsanto Company 800 N. Lindbergh Blvd. St. Louis, MO 63167 www.channelbio.com	LEGACY SEEDS	Legacy Seeds, Inc. P.O. Box 68 - 290 Depot St. Scandinavia, WI 54977 www.legacyseeds.com	SPECIALTY	Specialty Hybrids 371 N. Diener Road Reynolds, IN 47980 www.specialtyhybrids.com
CROPLAN	Croplan Genetics P.O. Box 64281, MS 5735 St Paul, MN 55164 www.croplan.com	LEGEND/ LEMKE	Legend/Lemke Seed 10220 North Granville Rd. Mequon, WI 53097 www.lemkeseed.com	SPECTRUM	Spectrum Seed Solutions 220 S. Main St. P.O. Box 7 Linden, IN 47955 www.spectrumseed.com
DAIRYLAND	Dairyland Seed P.O. Box 958 West Bend, WI 53095 www.dairylandseed.com	MASTERS CHOICE	Masters Choice, Inc. 3010 State Route 146 E. Anna, IL 62906 www.Seedcorn.com	STEYER	Steyer Seeds 6145 N. County Road 33 Tiffin, OH 44883 www.steyerseeds.com
DEKALB	Monsanto Company 800 N. Lindbergh Blvd. St. Louis, MO 63167 www.asgrowanddekalb.com	MYCOGEN	Mycogen Seeds 9330 Zionsville Road Indianapolis, IN 46268 www.mycogen.com	T.A. SEEDS	T.A Seeds 39 Seeds Lane Jersey Shore, PA 17740 www.taseeds.com
DOEBLER'S	Doebler's PA Hybrids Inc. 202 Tiadaghton Ave. Jersey Shore, PA 17740 www.doebblers.com	NK Brand	Syngenta Seeds, Inc. 11055 Wayzata Blvd. Minnetonka, MN 55440 www.syngenta.com	WELLMAN	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833 www.wellmanseeds.com
DYNA-GRO	Dyna-Gro Seed 4648 S. Garfield Road Auburn, MI 48611 www.dyna-groseed.com	NuTech	NuTech Seed, LLC 2321 N. Loop Dr., Suite 230 Ames, IA 50010 www.nutechseed.com	UNITY	Unity Seeds 3589 Sagamore Pkwy Lafayette, IN 47904 www.unityseeds.com
GEI	Genetic Enterprises Intl. 6165 Crabapple Lane Johnston, IA 50131 www.paezgei@mchsi.com	NuTech/ G2 GENETICS	NuTech Seed, LLC 2321 N. Loop Dr., Suite 230 Ames, IA 50010 www.nutechseed.com		

2013

MICHIGAN CORN PERFORMANCE TRIALS

*K. Thelen, W. D. Widdicombe and L. A. Williams
Department of Plant, Soil, and Microbial Sciences
Michigan State University*

Introduction

The Michigan State University Department of Crop, Soil and Microbial Sciences conducts hybrid corn trials each year in cooperation with Michigan State University AgBio Research stations, seed corn companies, and farmers to determine performance.

Entries

Seed companies are invited to enter hybrids in the trials; a fee is charged to cover expenses incurred while conducting the trials. Separate indices for grain and silage provide a list of all hybrids entered in the 2013 trials (pg. 23 and 31, respectively). Fourteen grain and eleven silage locations were planted. A total of 364 hybrids from 31 seed companies (34 brand names) make up the 606 entries; that translates into 7,192 separate county plots planted. Company names used in association with hybrid numbers refer to the brand. The hybrid numbers are the companies' designations.

Hybrids that have a seed-applied insecticide that may enhance yield are listed in the table column TRT (Treatment). The "TRAIT" column uses code numbers, listing the hybrid traits provided by the company. Treatment and Trait codes are listed in the tables on page 21.

How to Use This Bulletin

Tables list hybrids alphabetically and contain yield results for each location, plus zone averages. Complete one and two-year yield results are listed in tables for each zone where data is available. One-year single-site results are less reliable than multiple year and multiple location averages, and should be interpreted with more caution. Confidence in corn performance data increases as the number of years and the number of testing locations increase. Results for corn grain and corn silage trials are also listed on our Web site:

<http://www.css.msu.edu/varietytrials/>

To obtain additional published copies of this bulletin please contact the Michigan State University Extension Bulletin Office at the following:

MSU BULLETIN OFFICE

117 Central Services Building
Michigan State University
East Lansing, MI 48824
Phone: 517-353-6740
Fax: 517-353-7168

The results shown are the average of four replications grown in close proximity to one another. Two or more

plots of the same hybrid in the same field may produce somewhat different results because of uncontrolled variability in the soil and other environmental factors. Replication and randomization of the entries were two methods employed to reduce this variation. Because these methods do not eliminate all variables, the magnitude of difference necessary for statistical significance has been calculated for yield, moisture content, and test weight. The value calculated as the least significant difference (LSD) is the amount an individual hybrid would have to differ from another hybrid in the same test to be considered significantly different from that hybrid. The coefficient of variability, (CV) is indicative of a trials precision. Trials with low levels of error variation have lower CV values.

The highest yielding hybrid in each trial is indicated with a double asterisk (**). Hybrids that are not significantly different from the highest yielding hybrid are indicated with an asterisk (*). Other agronomic information relative to each trial is given in tables B and C (pg.23 and 30). Fertilizer amounts are shown as total pounds per acre of nitrogen, P₂O₅, and K₂O applied during the season.

Season in Summary: 2013

We had a pretty good spring and summer this year, fall left a little to be desired and we will get to that. Entry forms for participating companies were due March 15th. By the end of March we began receiving the seeds that made up our trials. After a lot of paper work, printing of labels and placing labels on packets, our students began counting the seeds and filling the packets. The counting process was made easier with an Agriculex ESC-1 seed counter. Packets were sorted by trial and location and placed in a computer generated random planting order. Some of our seed comes from winter production in South America. We usually receive seed up to the morning we leave the barn for the first day of planting. Planting began in Cass County on Sunday May 5th, 2013 and over the next four weeks planting went along fine. We planted Grand Traverse County on the morning of May 20th, the afternoon of the 20th we proceeded to Iosco County. After planting 10 of 28 passes in Iosco County the weather forced us out of the field. Because of wet conditions we were not able to return to Iosco County until May 28th. To ensure the equality of all plots, we re-planted the first 10 passes. Delta County was the last plot planted on May 30th.

Weed control went pretty smoothly with one exception. A problem occurred at our Allegan County silage site. Weed control was almost non-existent so the plot was dropped due to extensive weed pressure.

- Season Continued On Page 6.

2013

GROWING SEASON WEATHER SUMMARY

*Jeff Andresen, Extension Agricultural Meteorologist
Department of Geography
Michigan State University*

With a prolonged period of predominantly west to east, zonal upper air flow across the Midwest, milder than normal mean temperatures persisted across the Great Lakes region during much of the late fall of 2012 through early February 2013. The development of an upper air troughing pattern across the region during the last half of February into March finally led to a prolonged period of cooler than normal temperatures and below normal mean temperatures for February, the first cooler than normal month in Michigan since last Fall. Still, given a milder than normal December and January, mean temperatures for the December through February meteorological winter period generally ranged from 1-2°F above the long term normals. A relatively active storm track continued through the region during much of the winter. Precipitation totals during the December through February period were generally above normal (from near normal across western Upper Michigan to more than 150% of normal across central Lower Michigan), which reduced or eliminated long term soil moisture deficits in most areas following last year's drought. By mid March, only southeastern sections of Lower Michigan were still categorized by the U.S. Drought Monitor as 'Abnormally Dry', while much of Lower and eastern Upper Michigan was classified by the Palmer Drought Index as 'Very' or 'Extremely' moist.

An upper air troughing pattern persisted across the Upper Midwest during late March and much of April, resulting in colder than normal temperatures over much of Michigan. On average, it was the coldest April in Michigan in at least 10 years. A series of low pressure systems moved from southwest to northeast across the region during the period, bringing much above normal precipitation totals. Total precipitation from mid March through mid April ranged from less than 2.0 inches across some northern sections of the state to more than 6.00 inches with additional heavy rain and snow fell during the third week of April. The precipitation led to widespread flooding in some areas of the state, particularly west central sections. In northern sections of the state, much of the heavy precipitation fell in the form of snow, with more than 2 feet of snow cover still on the ground across portions of western Upper Michigan as of late April. Given the persistent colder than normal temperatures, overwintering crop phenology lagged behind long term climatological normals by 1.5-2.5 weeks (and more than 4 weeks behind last year's record early growing season) and the pace of spring fieldwork progress fell well behind normal.

During the last week of April, the upper air troughing feature responsible for the earlier inclement weather shifted south of the region, allowing a return of high pressure and an extended warm, dry spell across the

state that persisted into mid May. The break finally allowed spring fieldwork and planting to progress in earnest, although delays continued across western sections of the state impacted by earlier heavy rains and in areas with heavier soils. An active storm track across the central U.S. brought highly variable rates of precipitation to Michigan and the Great Lakes region during late May and the first half of June. The pattern led to several rounds of severe weather during the last week of May accompanied by high winds, hail, and several tornadoes. Overall, cooler and wetter than normal weather early in the 2013 season led to waterlogged soils, extensive fieldwork delays and in some cases, flooding and the need for replanting. At the end of June, the NOAA Palmer Drought Index continued to categorize much of central and southern Lower Michigan as 'Unusually Moist' to 'Extremely Moist'.

The return of an upper air troughing pattern across the region brought cooler than normal weather to much of Michigan once again during late June and early July. A drier than normal trend began across central and northern sections of the Lower Peninsula that would persist through much of the remainder of the growing season. The temporary establishment of a broad upper air ridge across central North America led to heat wave conditions across the Midwestern and Eastern USA during the third week of July, but was followed again by a deep troughing feature that brought cooler than normal temperatures to the Great Lakes region during late July through late August. As of early August, seasonal rainfall totals were highly variable across the state, with some western and southern sections recording less than 75% of normal values (generally 7-8" or less) while portions of the Upper and eastern Lower Peninsulas observed more than 15" (150% of normal or greater). The drier than normal weather in central sections resulted in crop moisture stress, especially on lighter soils.

The upper air troughing feature that led to abnormally cool, dry weather during late July and the first 3 weeks of August was replaced by a broad upper air ridge during the last week of the month which led to a period of hot, humid weather and to locally heavy rains. As of early September, soil moisture levels vary widely across the state, ranging from much above normal in the east to unfavorably dry in the west. Moisture stress continued to be an increasing issue for some crops, especially across western and central sections of the Lower Peninsula where prolonged dryness likely pushed some of the corn crop into early senescence.

- Weather Continued On Page 6.

TABLE A. GROWING SEASON SUMMARY - TEMPERATURE, PRECIPITATION AND GROWING-DEGREE-DAY ACCUMULATIONS

COUNTY	MAY			JUNE			JULY			AUGUST			SEPTEMBER			SEASON			
	OBS	NORM	DEV	OBS	NORM	DEV	OBS	NORM	DEV	OBS	NORM	DEV	OBS	NORM	DEV	OBS	NORM	DEV	
Zone 1	BRANCH & CASS (Coldwater)	62.5	59.2	3.3	68.5	68.4	0.1	70.8	71.9	-1.1	66.9	70.1	-3.2	60.5	63.3	-2.8	65.8	66.6	-0.7
	PPT	1.53	3.12	-1.59	5.70	3.95	1.75	3.65	3.79	-0.14	2.72	3.16	-0.44	1.23	3.01	-1.78	14.83	17.03	-2.20
	GDD	452	381	71	573	564	9	640	670	-30	548	628	-80	403	454	-51	2616	2697	-81
	LENAWEE	61.3	58.3	3.0	67.8	67.8	0.0	71.4	71.7	-0.3	68.8	69.9	-1.1	61.6	62.6	-1.1	66.2	66.1	0.1
	& WASHTEENAW	1.40	3.04	-1.64	5.10	3.30	1.80	2.72	3.73	-1.01	1.95	3.20	-1.25	1.54	2.62	-1.08	12.71	15.89	-3.18
	(Hudson)	428	353	75	549	542	7	655	658	-3	592	616	-24	418	432	-14	2642	2601	41
Zone 2	WOOD (OH) (Bowling Green)	63.7	60.1	3.6	69.3	69.8	-0.5	72.8	73.4	-0.6	70.4	70.9	-0.5	64.8	64.1	0.7	68.2	67.7	0.5
	PPT	3.35	3.58	-0.23	5.32	3.56	1.76	3.94	3.57	0.37	0.86	3.36	-2.50	1.97	2.63	-0.66	15.44	16.70	-1.26
	GDD	472	360	112	584	551	33	693	682	11	638	628	10	475	430	45	2862	2651	211
	ALLEGAN	59.9	57.4	2.5	65.8	67.1	-1.3	69.7	71.2	-1.5	68.1	69.5	-1.4	62.4	61.9	0.5	65.2	65.4	-0.2
	(Wayland)	2.99	2.86	0.13	3.06	3.68	-0.62	2.56	2.95	-0.39	4.12	3.14	0.98	2.28	3.24	-0.96	15.01	15.87	-0.86
	GDD	390	335	55	503	530	-27	612	654	-42	570	610	-40	421	412	9	2496	2541	-45
Zone 3	INGHAM	60.8	57.5	3.3	66.5	67.0	-0.5	70.5	70.7	-0.2	67.5	69.0	-1.5	60.1	62.0	-1.9	65.1	65.2	-0.1
	(MSU)	3.27	2.73	0.54	6.06	3.54	2.52	2.66	3.02	-0.36	3.84	3.12	0.72	1.35	2.50	-1.15	17.18	14.91	2.27
	GDD	421	338	83	518	530	-12	633	640	-7	557	598	-41	387	418	-31	2516	2524	-8
	SAGINAW	62.0	58.6	3.4	68.2	68.2	0.0	72.5	72.1	0.4	69.9	70.2	-0.3	63.0	62.9	0.1	67.1	66.4	0.7
	(Saginaw)	5.17	2.49	2.68	2.53	3.09	-0.56	1.10	2.83	-1.73	2.92	3.29	-0.37	1.02	2.76	-1.74	12.74	14.46	-1.72
	GDD	433	367	66	561	555	6	683	670	13	621	623	-2	433	438	-5	2731	2653	78
Zone 4	HURON	58.6	55.2	3.4	64.8	64.9	-0.1	70.0	69.3	0.7	66.4	67.8	-1.4	58.6	61.0	-2.4	63.7	63.6	0.0
	(Pigeon)	5.31	2.58	2.73	1.85	2.88	-1.03	3.59	2.93	0.66	1.91	3.01	-1.10	1.64	2.67	-1.03	14.30	14.07	0.23
	GDD	360	298	62	461	479	-18	613	602	11	522	569	-47	346	387	-41	2302	2335	-33
	MASON	60.8	54.4	6.4	66.4	63.6	2.8	70.5	68.5	2.0	68.4	67.2	1.2	62.4	60.2	2.2	65.7	62.8	2.9
	(Ludington)	4.08	2.48	1.60	4.12	2.93	1.19	2.33	2.18	0.15	1.30	3.79	-2.49	2.03	3.25	-1.22	13.86	14.63	-0.77
	GDD	413	273	140	521	450	71	628	587	41	579	552	27	418	365	53	2559	2227	332
Zone 5	MONTCALM	60.1	57.7	2.4	66.1	67.1	-1.0	69.5	71.0	-1.5	67.3	69.3	-2.0	59.8	61.6	-1.8	64.6	65.3	-0.8
	(Entrican)	4.72	2.88	1.84	2.06	3.43	-1.37	1.36	2.50	-1.14	4.05	3.84	0.21	1.42	3.12	-1.70	13.61	15.77	-2.16
	GDD	410	351	59	511	536	-25	601	646	-45	558	603	-45	384	414	-30	2464	2550	-86
	GRAND TRAVERSE	56.7	53.5	3.2	64.1	63.7	0.4	70.1	68.8	1.3	68.3	67.3	1.0	60.7	59.3	1.4	64.0	62.5	1.5
	(NWMHS)	2.54	2.48	0.06	1.35	3.15	-1.80	1.65	2.88	-1.23	3.89	2.93	0.96	2.59	3.60	-1.01	12.02	15.04	-3.02
	GDD	331	273	58	451	454	-3	616	587	29	573	552	21	360	348	12	2331	2214	117
Zone 6	IOSCO	58.4	54.1	4.3	65.5	64.1	1.4	69.9	68.4	1.5	67.2	66.3	0.9	60.0	59.0	1.0	64.2	62.4	1.8
	(Standish)	5.70	3.32	2.38	2.71	3.43	-0.72	2.82	2.81	0.01	2.15	3.40	-1.25	1.15	3.24	-2.09	14.53	16.20	-1.67
	GDD	366	181	185	483	431	52	616	576	40	543	489	54	380	279	101	2388	1956	432
	MENOMINEE	53.1	53.6	-0.5	62.2	62.7	-0.5	67.6	67.4	0.2	66.4	65.5	0.9	57.8	57.0	0.8	61.4	61.2	0.2
	(Stephenson)	2.75	3.57	-0.82	1.58	3.72	-2.14	4.07	3.63	0.44	4.90	3.86	1.04	1.86	3.60	-1.74	15.16	18.38	-3.22
	GDD	274	285	-11	427	438	-11	552	559	-7	539	513	26	351	319	32	2143	2114	29
Zone 7	DELTA	51.4	52.6	-1.2	59.0	62.3	-3.3	67.0	65.7	1.3	60.8	65.2	-4.4	57.3	57.7	-0.4	59.1	60.7	-1.6
	(Escanaba)	1.93	2.85	-0.92	1.41	3.06	-1.65	2.79	3.57	-0.78	4.56	3.08	1.48	3.27	3.69	-0.42	13.96	16.25	-2.29
	GDD	230	263	-33	346	419	-73	536	499	37	379	492	-113	483	311	172	1974	1984	-10

OBS = Totals observed in 2013
 NORM = Normals calculated over 30 year period (1981-2010)
 DEV = Deviation of observed from normal
 Table courtesy of MSU Agricultural Weather Office (517-355-0231)

- Weather Continued From Page 4

As of the beginning of September, the U.S. Drought Monitor categorized west central and northern sections of Lower Michigan as 'Abnormally Dry'. Seasonal base 50°F growing degree day accumulations varied widely across the state, ranging from 1-2 calendar weeks behind normal across western sections to 1 week or more ahead of normal in the northeastern Lower Peninsula.

One persistent feature of the upper air flow across North America (and most of the Northern Hemisphere) during much of the spring and summer of 2013 was the tendency for a highly amplified or meridional (more north/south than west/east) pattern. This was especially true for the mid summer months, when the jet stream typically contracts northward into Canada. The unusually meridional flow was responsible for the high number of weather extremes observed throughout the USA and Europe during the late spring and summer.

With an upper air trough across western sections of the USA and broad ridging across the east, weather across the Great Lakes region during September was generally warmer and drier than normal. Mean temperatures for September ranged from slightly below normal levels (1-2°F below normal) across eastern sections of the state to slightly above normal (1-2°F above normal) across western sections. Precipitation totals for the month were generally less than normal, ranging from less than 50% of normal across central and southern sections of Lower Michigan to much above normal levels across eastern sections of Upper Michigan. For many areas in the state, the relatively warm, dry weather was ideal for maturation, grain drydown, and early harvest of crops. With the exception of eastern Upper Michigan and a few scattered sections of southeastern Lower Michigan, precipitation totals during the middle and late summer months remained well below normal (2-6 inches below the 9-11 inch normals), and as of October 1st, southwestern, central, and northeastern sections of Lower Michigan were included in an expanding area of 'Abnormally Dry' conditions by the U.S. Drought Monitor.

Following a persistent upper air ridging pattern across the Midwest during late September and early October that led to a prolonged period of mild weather and mostly favorable harvest conditions, a large troughing feature developed across the Great Lakes once again region during mid-October. The trough led to northwesterly flow aloft and the passage of several Canadian-origin air masses into the central and eastern USA resulting in a prolonged period of cool, unsettled weather including the first killing freeze of the season across some interior northern sections of the state and the first frozen precipitation of the season. The wet conditions, combined with the lack of an earlier hard freeze across central and southern sections of the state led to slow crop and grain drydown rates and in many areas to prolonged harvest delays.

In summary, the 2013 growing season was characterized by a prolonged cool, wet spring which delayed spring fieldwork but replenished soil moisture following last year's drought. Mean temperatures during the summer ranged from warmer than normal across northern

sections to cooler than normal across central and southern sections. Total rainfall was also variable by location, ranging from below normal over northern and central portions of the Lower Peninsula to above normal over much of the Upper and southeastern Lower Peninsulas. A relatively mild early fall season helped crops delayed by late planting and/or cool growing season temperatures to reach maturity prior to the first killing freeze of the season, which was 1-2 weeks later than normal in most locations.

- Season Continued From Page 3

Stand counts went off without a hitch, all plots were counted and thinned at knee high. All locations, except Cass County and Wood County, OH were thinned back to a population of 35,244. Cass County was left with a higher population of 36,828 and Wood County, OH was in between at 36,300.

We began harvesting silage plots on September 4th in Wood County, Ohio and finished on September 24th with our Ingham County late silage. Between September 9th and September 18th we moved along at a good pace. However, after that date, harvesting came to a standstill until October 8th due to soggy weather conditions. Sub-samples were brought back to Michigan State University for further analysis. Two of our students, Emily DeVooght and Casey Reagan, were very instrumental in the quick processing of our sub-samples.

Grain harvest began on November 4th in Branch County. We moved along O.K. until November 14th. Due to mechanical failure and poor weather conditions in some areas, the last two sites, (Mason & Montcalm Counties), were not harvested until December 2nd. Delta County grain was inadvertently gleaned for silage. Montcalm County early grain was not harvested due to extensive spring flooding. Montcalm County late grain was harvested, however, data analysis revealed more extensive damage than we anticipated so the late grain trial had to be dropped as well.

Table A (pg. 5) presents 2013 accumulations of temperature, rainfall, and heat units, plus their deviation from 30 year norms. Data is obtained from Michigan State University weather stations located closest to each location. Actual accumulation at each location may vary slightly. The weather summary is provided by Dr. Jeff Andresen from the Department of Geography using data from the Michigan State University Agricultural Weather Office.

2013 GRAIN PERFORMANCE TRIALS

Introduction

The grain index (pg.26) contains a list of all hybrids planted in the 2013 grain trials.

County results are reported in the following tables:

Tables 1E/1L Zone 1 - Branch, Cass and Washtenaw

Tables 2E/2L Zone 2 - Allegan, Ingham and Saginaw

Tables 3E/3L Zone 3 - Huron, Mason and Montcalm (dropped 2013)

Table 4 Zone 4 - Grand Traverse, Iosco and Menominee (Late)

Table 5 Zone 5 - Delta and Menominee (Early)

Tables 6E/6L Conventional Trial - Huron (Zone 3), Montcalm (Zone 3, dropped 2013), and Saginaw (Zone 2)

The map of Michigan (page 7) shows each zone and the locations where the trials were located.

Methods

Three trial locations were planted in each of four maturity zones, zone 5 had two locations. These zones were based on available growing degree-day units established from long-term weather records. Hybrids entered in a zone were tested in each of the three designated locations. Entries for zone 1, zone 2, and zone 3 were divided into two maturity groups, (early and late), on the basis of relative maturity (RM) provided by the seed companies. In zone 4 and zone 5, all hybrids were tested in one group.

Four-row plots were used at all grain locations. The two center rows were harvested for yield. Plots were 22 feet long with 30-inch row spacing.

Experimental design, data acquisition, analysis of variance and data summarization were facilitated in part by AGROBASE Generation II™ SQL (Agronomix Software, Inc., Winnipeg, Canada). The experimental layout was a four-replication, randomized complete block design. Hybrid performance is reported as the adjusted mean averaged together from four replicated plots.

Variety trials were conducted on farmers' fields and Michigan State University AgBio Research Stations. All hybrids in a location were managed uniformly with the same fertilizers, population, date of planting, and other management practices. In the field, hybrids were identified only by a plot number to assure unbiased comparisons. Trials in Allegan (silage, dropped 2013), Branch, Cass, Mason, and Montcalm (dropped 2013), counties were irrigated.

Stand counts were recorded in June. Plots with stand counts higher than the desired population were thinned at that time. Average trial population plus the desired population rates are listed with other important agronomic information in Table B (pg. 23). Lodging measurements

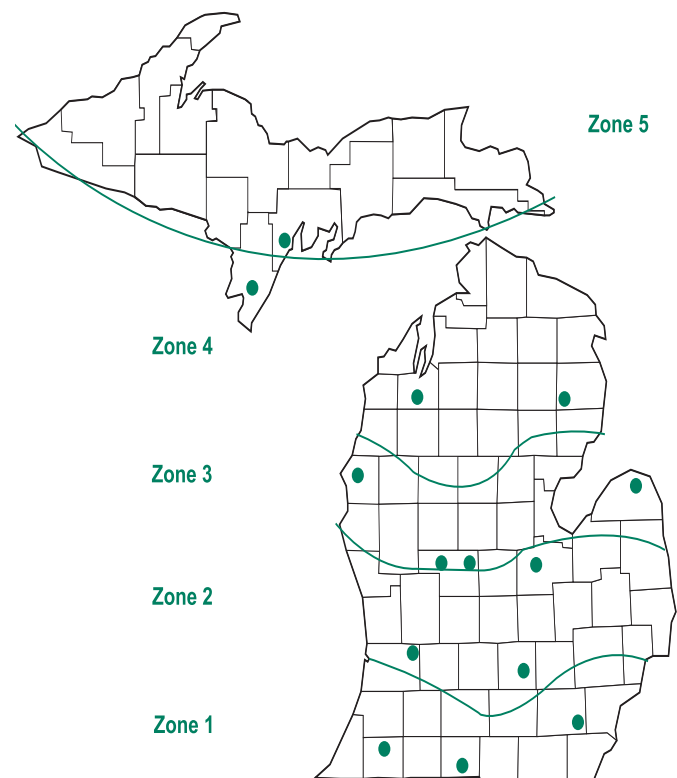
were made during harvest. All plants broken below the ear and/or leaning more than 45 degrees were counted. Plots were harvested mechanically. Moisture content and field weight were measured by a Harvest Master™ single plot high capacity GrainGage™ System mounted on a Massey Ferguson 8XP plot combine. Grain yield is reported at the standard 15.5 percent moisture. Grain test weight is reported at harvest moisture. Automated test weight equipment loses some accuracy as harvest moistures increase. Test weight values should be used to determine relative rank and not as a precise weight.

Results

The tables report the following information about the hybrids tested:

1. Moisture content at harvest (%H₂O).
2. Yield (in bushels per acre) of shelled corn corrected to 15.5 percent moisture (Bu/A)
3. Test weight at harvest moisture (Twt).
4. Percent of stalk lodging (plants broken below the ear and/or 45 degrees off vertical at harvest) (%SL).
5. Percent stand of target population (%Std).

2013 Grain Trial Locations



BRAND / HYBRID	RM	TRT	TRAIT	2 Year Averages 2013 - 2012																			
				Early - TRIAL AVERAGE			Branch - Early			Cass - Early			Washenaw - Early										
				%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd					
PIONEER P0216AM	102	P1250	1,2,4,6	19.5	231.8	57.2	0.5	98	20.7	223.2	56.3	0.0	97	18.5	254.4	58.4	1.4	97	19.3	217.8	57.0	0.0	100
PIONEER P0255AMXT	102	C250	1,2,3,4,6	18.8	231.0	59.3	0.1	98	19.9	218.0	57.1	0.0	96	17.8	236.0	60.2	0.3	99	18.6	239.1*	60.3	0.0	100
PIONEER P0496AMX	104	C250	1,2,3,4,6	19.3	218.4	58.8	0.1	94	20.2	217.7	57.8	0.0	93	18.0	230.0	60.0	0.0	89	19.8	203.6	58.3	0.3	100
PIONEER P0604YHR	106	P1250	1,2,4,6	19.1	236.7	59.8	0.9	99	20.6	231.6	59.0	1.1	100	17.2	250.6	60.7	1.5	96	19.4	228.0	59.8	0.0	100
RENK RK752SSTX	105	P250	1,2,3,4,6	20.4	220.1	58.3	0.4	96	22.5	217.4	57.5	0.0	95	18.8	234.9	59.2	0.6	94	19.8	207.9	58.2	0.6	100
RUPP XR8034	105	C250	1,2,3,4	20.9	233.6	55.4	0.2	98	23.0	241.0*	54.6	0.0	99	18.8	241.4	56.4	0.0	95	21.0	218.3	55.2	0.6	100
RUPP XRD04-04	104	C250	1,2	18.3	222.6	58.6	0.0	97	20.0	232.1	57.6	0.0	98	17.2	237.6	59.2	0.0	94	17.7	198.3	59.0	0.0	100
RUPP XRD07-19	107	P250	1,2	20.5	237.8	57.8	0.0	99	23.3	225.0	56.6	0.0	100	18.3	269.2*	58.7	0.0	98	20.0	219.3	58.0	0.0	100
RUPP XRJ07-20	107	C250	1,2,3,4,6	20.6	232.7	58.3	0.1	99	21.9	240.4*	57.7	0.3	100	18.9	242.4	59.7	0.0	98	21.1	215.5	57.5	0.0	100
SEED CONSULTANTS SCS 1032AM1™	101	P1250	1,2,3,4	19.2	231.6	60.2	1.3	100	20.4	239.1*	59.7	0.9	100	17.9	242.7	61.5	2.5	99	19.1	212.9	59.5	0.6	100
SEED CONSULTANTS SCS 10HO72™	107	P1250	1,2,3,4	19.9	247.5*	60.1	0.1	100	22.0	243.5*	58.3	0.0	100	18.1	260.5*	61.4	0.0	100	19.7	238.6*	60.6	0.3	100
SEED CONSULTANTS SCS 10HR43™	104	C250	1,2,4	20.2	257.5**	58.7	0.0	98	20.9	254.4**	57.2	0.0	96	18.8	267.0*	60.0	0.0	99	20.8	251.2**	58.7	0.0	100
SEED CONSULTANTS SCS 10HR62™	106	P1250	1,2,4,6	20.3	233.8	58.6	0.2	98	21.5	231.4	58.3	0.0	98	19.0	257.0	59.4	0.0	95	20.4	213.2	58.1	0.6	100
SELECT 4633VP	107	P250	1,2,3	21.3	227.2	56.7	0.7	97	22.9	233.2	55.5	0.0	96	19.4	236.8	58.2	1.7	96	21.6	211.6	56.5	0.6	100
SELECT 4277SM	104	P500	1,2,3,4,6	21.4	236.3	57.5	0.4	96	24.8	229.3	56.2	0.0	96	19.0	264.3*	59.4	0.6	93	20.6	215.2	56.9	0.6	98
SELECT 4314AQ	105	C250	1,2,3,4	20.6	239.3	56.5	0.1	96	22.1	237.8	56.2	0.0	91	18.2	241.8	57.2	0.3	95	21.4	238.3*	56.3	0.0	100
SPECIALTY 32V323	102	P500	1,2,3	18.3	229.0	56.6	0.3	95	19.6	216.8	55.9	0.9	95	17.1	245.2	57.0	0.0	92	18.2	224.9	56.9	0.0	100
SPECIALTY 34A413	104	P500	1,2,3,4,6	19.7	240.8	58.0	0.0	99	21.6	241.7*	57.1	0.0	100	18.2	254.1	58.9	0.0	96	19.3	226.6	57.9	0.0	100
SPECIALTY 43R85GENVT3P	105	P500	1,2,3	19.3	234.8	56.9	0.6	100	22.0	234.9	54.5	0.3	100	17.4	257.9*	59.1	1.6	99	18.7	211.7	57.2	0.0	100
SPECIALTY 43R85GENVT3P	106	P500	1,2,3	18.2	239.3	57.9	0.0	100	20.1	240.3*	55.7	0.0	100	16.5	256.8	59.0	0.0	100	18.1	220.8	59.1	0.0	100
STEYER 10403 VT2PPORIBC	104	C250	1,2,3	18.4	224.0	58.8	0.0	95	20.5	227.1	57.9	0.0	94	16.9	254.0	59.7	0.0	94	17.8	190.8	58.8	0.0	97
STEYER 10603 GENSSRIBC	106	C250	1,2,3,4,6	21.6	225.3	56.6	0.0	96	24.3	233.8	54.8	0.0	96	19.0	235.0	57.8	0.0	93	21.5	207.2	57.3	0.0	99
STEYER 10004 GENSSRIBC	100	C250	1,2,3,4,6	18.9	223.6	58.0	0.0	99	20.0	209.4	57.4	0.0	99	17.3	229.9	58.5	0.0	99	19.4	231.5*	58.2	0.0	100
STEYER 10102 GENSSRIBC	101	C250	1,2,3,4,6	17.6	218.5	57.3	1.2	100	19.1	213.1	55.9	2.6	99	16.3	245.3	58.4	1.1	100	17.5	197.1	57.6	0.0	100
WELLMAN W2307DP	107	ENC	1,2	21.0	244.0	57.3	0.4	98	23.4	234.9	56.5	0.6	97	20.1	274.0**	57.9	0.3	97	19.6	223.2	57.5	0.3	100
WELLMAN W2401DP	101	ENC	1,2	17.4	232.4	58.0	0.9	100	18.5	218.6	56.7	1.4	100	16.0	253.8	58.9	0.6	100	17.6	224.9	58.4	0.9	100
WELLMAN W2404DP	104	ENC	1,2	18.6	219.0	58.3	0.0	96	20.3	234.7	57.9	0.0	94	17.0	231.5	59.0	0.0	95	18.5	190.8	58.1	0.0	100
AVERAGE				19.7	232.1	57.4	0.4	98	21.4	229.7	56.4	0.4	98	18.1	247.1	58.5	0.6	96	19.7	219.4	57.4	0.2	99
HIGHEST				23.2	257.5	60.2	2.8	100	24.8	254.4	59.7	5.6	100	22.0	274.0	61.5	4.9	100	23.5	251.2	60.6	1.7	100
LOWEST				17.4	211.9	54.8	0.0	91	18.5	209.2	53.8	0.0	90	16.0	218.3	55.3	0.0	87	16.9	186.1	54.4	0.0	89
CV (%)				4.3	6.5	1.3	309.3	4.0	4.3	6.0	1.4	294.5	4.0	4.8	5.7	1.2	283.2	5.0	3.8	7.9	1.3	324.9	2.0
LSD (5%)				0.6	10.1	0.5	0.9	2.0	1.1	16.0	0.9	1.5	4.0	1.0	16.4	0.8	1.9	5.0	0.9	20.2	0.9	0.8	2.0

BRAND / HYBRID	RM	TRT	TRAIT	2 Year Averages 2013 - 2012																			
				Early - TRIAL AVERAGE			Branch - Early			Cass - Early			Washenaw - Early										
				%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd					
NuTech/G2 GENETICS 5H-806™	106	C250	1,2,4	19.5	206.0*	59.2	0.2	97	20.7	222.5*	58.3	0.0	96	19.0	255.2*	60.7	0.1	95	18.8	140.4**	58.6	0.6	99
NuTech/G2 GENETICS 5H-905™	105	C250	1,2,4	19.0	199.8*	57.4	0.0	98	20.1	203.4	57.1	0.0	96	18.1	259.1*	57.9	0.0	100	18.7	136.9*	57.3	0.0	99
NK Brand N61P-3000GT Brand	107	C250	1,2,3,4	20.8	206.4**	55.3	0.0	99	22.3	231.9**	56.3	0.0	99	19.5	266.5**	57.6	0.1	97	20.5	120.8	52.0	0.0	100
RUPP XR8034	105	C250	1,2,3,4	18.7	191.0	53.7	0.5	99	21.1	227.7*	56.0	0.0	99	18.8	222.7	57.0	0.7	97	16.2	122.7	47.9	0.7	100
RUPP XRD07-19	107	P250	1,2	20.3	195.8	57.7	0.4	99	22.0	202.9	57.8	0.0	100	18.8	257.8*	58.5	1.3	97	20.2	126.6	56.8	0.0	100
SEED CONSULTANTS SCS 10HO72™	107	P1250	1,2,3,4	18.6	203.7*	61.1	0.0	99	20.7	220.1*	59.7	0.0	100	18.3	256.7*	61.7	0.0	98	16.8	134.3*	62.1	0.1	100
SEED CONSULTANTS SCS 10HR62™	106	P1250	1,2,4,6	19.9	199.2*	58.7	0.1	95	20.8	219.2	58.9	0.0	94	19.1	252.2	60.7	0.1	93	19.7	126.1	56.4	0.3	99
WELLMAN W2307DP	107	ENC	1,2	20.2	196.3	56.5	0.4	98	22.0	209.0	57.5	0.3	98	20.1	255.2*	58.4	0.7	98	18.4	124.8	53.6	0.1	98
AVERAGE				19.6	199.8	57.4	0.2	98	21.2	217.1	57.7	0.0	98	19.0	253.2	59.1	0.4	97	18.7	129.1	55.6	0.2	99
HIGHEST				20.8	206.4	61.1	0.5	99	22.3	231.9	59.7	0.3	100	20.1	266.5	61.7	1.3	100	20.5	140.4	62.1	0.7	100
LOWEST				18.6	191.0	53.7	0.0	95	20.1	202.9	56.0	0.0	94	18.1	222.7	57.0	0.0	93	16.2	120.8	47.9	0.0	98
CV (%)				4.0	6.6	1.7	273.5	4.0	4.1	6.6	1.8	241.7	4.0	3.9	5.8	1.8	233.0	5.0	7.4	7.5	10.4	412.1	2.0
LSD (5%)				0.4	8.0	0.5	0.5	2.0	0.7	12.2	0.8	0.8	3.0	0.6	11.8	0.9	1.1	4.0	1.2	12.4	4.9	0.7	2.0

** Highest Yielding Hybrid
* Not Significantly Different from Highest Yielding Hybrid



ZONE 1

BRANCH, CASS & WASHTENAW COUNTY GRAIN TRIALS - LATE (108 Day and Later)

TABLE 1L.

BRAND /HYBRID	RM	TRT	TRAIT	Late - TRIAL AVERAGE						Branch - Late				Cass - Late				Washtenaw - Late								
				%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd			
	1203																									
AGRIGOLD A6472VT3P0	110	P500	1,2,3	21.9	243.9	58.8	0.9	98	24.2	245.7*	57.1	0.3	100	19.5	242.1	60.5	1.5	96								
BECK 5475AM**	108	ESC	1,2,4	20.3	254.3	60.6	0.5	99	21.6	246.3*	58.8	0.3	100	21.1	262.3*	62.4	0.8	97								
BECK 5828AM**	110	ESC	1,2,4	22.9	233.8	56.3	0.6	99	24.8	227.5	54.7	0.0	99	21.1	240.1	58.0	1.1	100								
CHANNEL 211-99VT3PRIB	111	PV500	1,2,3	21.0	252.7	58.3	1.6	99	23.5	245.0*	57.1	1.4	99	18.6	260.4*	59.4	1.9	100								
DAIRYLAND SEED DS-9210SSX	110	C250	1,2,3,4,6	23.0	239.2	58.2	0.0	100	25.3	220.0	55.7	0.0	100	20.7	258.5*	60.8	0.0	100								
DAIRYLAND SEED DS-9610	110	C250	1,2,3,4	23.0	245.6	56.0	1.1	99	25.0	240.3	54.8	0.3	100	21.1	251.0	57.2	1.9	99								
DAIRYLAND SEED DS-9809RA	109	C250	1,2,3,4,6	21.3	223.1	56.8	0.3	99	22.5	221.4	55.7	0.6	100	20.1	224.7	58.0	0.0	98								
DEKALB DKC58-87 GENSSRIB	108	P500	1,2,3,4,6	19.5	232.9	59.9	2.1	97	20.9	225.8	58.3	1.4	97	18.1	240.0	61.6	2.7	97								
DEKALB DKC60-67 GENSSRIB	110	P500	1,2,3,4,6	20.8	258.0*	60.0	0.3	97	22.6	246.8*	58.3	0.0	96	19.1	269.1*	61.7	0.6	99								
DEKALB DKC61-16 GENSSRIB	111	P500	1,2,3,4,6	21.1	250.1	58.2	0.6	98	23.5	235.5	56.8	1.1	100	18.6	264.7*	59.7	0.0	95								
DEKALB DKC61-88 GENVT3PRIB	111	P500	1,2,3	20.9	266.4**	58.9	0.4	99	23.0	258.6**	57.4	0.8	99	18.9	274.3**	60.3	0.0	99								
DEKALB DKC62-08 GENSSRIB	112	P500	1,2,3,4,6	23.3	242.2	58.3	0.1	95	24.8	248.1*	57.0	0.3	97	21.8	236.4	59.6	0.0	93								
DYNAGRO D52SS91	112	P500	1,2,3,4,6	24.7	252.6	58.0	0.0	98	26.5	242.6	57.1	0.0	99	22.9	262.5*	59.0	0.0	97								
NutTech/G2 GENETICS 5F-008™	108	C250	1,2,4	20.7	250.0	59.2	0.0	98	22.7	244.5*	58.6	0.0	99	18.7	255.5	59.9	0.0	98								
NutTech/G2 GENETICS 5Z-109™	109	P1250	1,2,4	22.8	246.0	58.8	2.5	99	24.5	233.3	56.8	2.8	100	21.1	258.6*	60.8	2.2	98								
NutTech/G2 GENETICS 5Z-709™	109	P1250	1,2,4	21.5	248.2	56.9	1.0	100	24.0	238.6	55.3	0.0	99	18.9	257.8*	58.6	1.9	100								
GOLDEN HARVEST G09E98-3000GT Brand	109	C250	1,2,3,4	21.6	250.6	58.8	0.0	99	23.4	239.4	57.6	0.0	100	19.9	261.8*	60.1	0.0	98								
GREAT LAKES 5939VT3PRIB	109	P500	1,2,3	22.7	251.1	54.2	0.0	99	24.8	240.6	53.2	0.0	100	20.7	261.6*	55.2	0.0	98								
GREAT LAKES 6087VT3PRIB	110	P500	1,2,3	21.4	249.9	55.5	0.6	100	23.0	230.9	54.6	1.1	100	19.7	269.0*	56.4	0.0	99								
HYLAND SEEDS 4687	110	P250	1,2,3,4	22.2	238.5	56.6	0.0	96	23.8	232.7	54.8	0.0	97	20.7	244.2	58.5	0.0	94								
HYLAND SEEDS 8695RA	110	P250	1,2,3,4,6	24.5	243.9	56.3	0.7	99	25.9	243.1	56.1	0.6	100	23.2	244.7	56.6	0.8	98								
MYCOGEN 2V709	110	C250	1,2,3,4,6	22.0	237.6	58.2	1.0	100	22.6	237.6	57.2	0.6	99	21.4	237.6	59.3	1.4	100								
MYCOGEN 2C647	108	C250	1,2,3,4,6	21.8	231.1	57.5	0.2	97	22.9	220.5	55.3	0.3	97	20.7	241.7	59.8	0.0	97								
NK Brand N63R-3000GT Brand	109	C250	1,2,3,4	21.5	246.3	58.8	0.0	99	23.4	226.3	57.3	0.0	99	19.5	266.4*	60.2	0.0	100								
PIONEER P0858AMX	108	C250	1,2,3,4,6	22.4	246.0	60.3	1.4	96	23.3	246.2*	59.4	0.6	99	21.5	245.8	61.2	2.3	92								
PIONEER P0945YXR	109	C250	1,2,3,4,6	21.9	247.4	57.8	0.7	95	22.6	252.2*	56.7	1.4	92	21.2	242.5	58.8	0.0	99								
PIONEER P0970AMX	109	C250	1,2,3,4,6	21.4	245.6	58.5	1.6	97	22.5	244.8*	57.1	0.9	100	20.3	246.5	59.9	2.3	95								
PIONEER P0993HR	109	P1250	1,2,4,6	21.5	252.7	55.9	0.7	94	23.7	256.3*	54.8	1.5	98	19.3	249.1	57.1	0.0	91								
RENK RK776VT3P	108	P250	1,2,3	21.3	259.1*	57.5	0.0	96	23.3	253.6*	56.6	0.0	99	19.3	264.6*	58.5	0.0	93								
RENK RK791SSTX	108	P500	1,2,3,4,6	19.8	248.1	58.5	0.6	98	20.9	252.8*	57.3	1.1	98	18.6	243.4	59.7	0.0	98								
RENK RK860VT3P	111	P250	1,2,3	23.1	252.0	58.7	0.0	98	24.7	242.5	57.5	0.0	99	21.5	261.4*	59.9	0.0	96								
RENK RK866SSTX	111	P500	1,2,3,4,6	22.3	229.4	57.8	0.3	98	23.7	218.2	56.4	0.0	97	21.0	240.7	59.2	0.6	98								
RENK RK880SSTX	112	P500	1,2,3,4,6	21.7	235.0	57.6	0.0	98	23.6	223.5	56.2	0.0	100	19.8	246.6	59.0	0.0	96								
RUPP XRJ10-91	110	C250	1,2,3,4,6	22.5	248.7	57.7	1.3	97	25.0	251.2*	55.9	1.8	98	20.0	246.3	59.6	0.8	96								
RUPP XRT09-22	109	C250	1,2,3,4	21.9	243.7	58.9	0.6	100	23.9	244.6*	57.0	1.1	100	19.8	242.9	60.8	0.0	99								
SEED CONSULTANTS SC.11AO03™	110	C250	1,2,3,4	22.4	236.1	55.8	0.0	99	24.5	237.2	54.2	0.0	100	20.2	235.1	57.4	0.0	99								
SEED CONSULTANTS SCS 1074AM-R™	108	P1250	1,2	21.8	254.0	58.8	2.5	97	23.8	243.7	57.4	2.8	97	19.8	264.4*	60.3	2.2	98								
SEED CONSULTANTS SCS 1093AAHQ™	109	P1250	1,2,3,4	20.8	241.9	58.7	0.0	100	22.7	224.9	57.2	0.0	100	19.0	258.9*	60.2	0.0	100								
SEED CONSULTANTS SCS 10HR94™	109	C250	1,2,4	22.1	252.8	56.6	0.3	95	24.9	237.1	55.2	0.6	96	19.3	268.5*	58.1	0.0	94								
SEED CONSULTANTS SCS 10RR70™	108	P1250	1	21.9	238.9	60.1	0.6	100	23.7	231.3	58.3	0.6	100	20.2	246.6	61.8	0.6	100								
SEED CONSULTANTS SCS 1114AM-R™	111	C250	1,2	21.3	239.8	57.6	0.1	99	22.6	215.9	55.6	0.0	97	19.9	263.8*	59.5	0.3	100								
SEED CONSULTANTS SCS 1133AM-R™	113	C250	1,2	22.8	245.5	58.8	0.1	97	24.6	229.7	57.2	0.0	97	21.0	261.3*	60.3	0.3	96								
SEED CONSULTANTS SCS 11HR02™	110	P1250	1,2,4	21.8	247.3	58.2	1.1	98	23.5	244.8*	56.6	1.1	98	20.1	249.8	59.9	1.1	97								
SEED CONSULTANTS SCS 11HR21™	113	P1250	1,2,4	21.9	258.2*	58.3	2.3	100	23.8	244.8*	57.1	1.7	100	20.0	271.7*	59.6	3.0	100								
SPECIALTY 38A573	108	P500	1,2,3,4,6	21.3	235.6	57.3	0.2	95	22.4	228.6	56.4	0.3	94	20.2	242.6	58.3	0.0	96								

STEYER 10803 GENSSRIBC	108	C250	1,2,3,4,6	21.8	222.5	59.4	1.3	93	24.1	215.8	57.7	2.0	96	19.5	229.1	61.1	0.6	91
STEYER 11004 GENSSRIBC	110	C250	1,2,3,4,6	22.0	242.4	58.1	0.4	98	23.6	238.2	56.9	0.3	100	20.5	246.7	59.3	0.6	96
WELLMAN W2310DP	110	ENC	1,2	22.6	253.8	59.4	0.0	99	24.7	233.6	57.4	0.0	100	20.5	274.0*	61.4	0.0	98
WELLMAN W2409S	109	ENC	1,2,3	21.5	249.8	57.6	0.3	93	23.7	239.6	56.7	0.0	95	19.3	260.0*	58.6	0.6	92
AVERAGE				21.9	245.2	58.0	0.6	98	23.6	237.6	56.6	0.6	99	20.1	252.8	59.4	0.6	97
HIGHEST				24.7	266.4	60.6	2.5	100	26.5	258.6	59.4	2.8	100	23.2	274.3	62.4	3.0	100
LOWEST				19.5	222.5	54.2	0.0	93	20.9	215.8	53.2	0.0	92	18.1	224.7	55.2	0.0	91
CV (%)				4.4	5.6	1.6	257.3	4.0	4.0	5.2	1.3	246.4	3.0	5.0	5.8	1.9	266.0	4.0
LSD (5%)				0.8	11.3	0.8	1.3	3.0	1.1	14.4	0.9	1.7	4.0	1.2	17.3	1.3	2.0	5.0

2 Year Averages 2013 - 2012

BRAND / HYBRID	RM	TRT	TRAIT	Late - TRIAL AVERAGE				Branch - Late				Cass - Late				Washtenaw - Late			
				%H2O	BU/A	Twt	%SL %Sd	%H2O	BU/A	Twt	%SL %Sd	%H2O	BU/A	Twt	%SL %Sd	%H2O	BU/A	Twt	%SL %Sd
NK Brand N63R-3000GT Brand	109	C250	1,2,3,4	20.9	237.6	60.3	0.1	98	22.3	216.0	58.6	0.0	99	19.6	259.2*	62.1	0.2	98	
PIONEER P0993HR	109	P1250	1,2,4,6	21.3	244.6*	56.8	0.4	97	22.9	232.2*	55.8	0.7	99	19.7	257.0	57.8	0.1	95	
RENK RK880SSTX	112	P500	1,2,3,4,6	21.1	236.2	58.7	0.1	97	22.3	213.8	57.5	0.0	99	19.9	258.6*	59.8	0.3	95	
SEED CONSULTANTS SC 11A003™	110	C250	1,2,3,4	21.8	231.6	56.7	0.2	99	23.3	217.9	55.9	0.4	100	20.3	245.3	57.6	0.0	98	
SEED CONSULTANTS SCS 11HR02™	110	P1250	1,2,4	21.8	245.5*	58.3	0.7	99	23.2	235.1**	57.2	0.6	99	20.4	255.9	59.3	0.8	99	
WELLMAN W2310DP	110		1,2	21.8	247.6**	59.4	0.0	99	23.0	223.9*	58.4	0.0	99	20.7	271.2**	60.5	0.0	99	
AVERAGE				21.5	240.5	58.4	0.3	98	22.8	223.2	57.2	0.3	99	20.1	257.9	59.5	0.2	97	
HIGHEST				21.8	247.6	60.3	0.7	99	23.3	235.1	58.6	0.7	100	20.7	271.2	62.1	0.8	99	
LOWEST				20.9	231.6	56.7	0.0	97	22.3	213.8	55.8	0.0	99	19.6	245.3	57.6	0.0	95	
CV (%)				4.2	6.3	3.7	219.7	4.0	3.9	5.9	1.5	214.7	4.0	4.5	6.6	2.1	223.3	4.0	
LSD (5%)				0.5	9.0	1.2	0.7	2.0	0.8	11.4	0.7	1.0	3.0	0.7	13.8	1.0	1.1	3.0	

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

TABLE 2E.

ALLEGAN, INGHAM & SAGINAW COUNTY GRAIN TRIALS - EARLY (101 Day and Earlier)

ZONE 2

2013		Early - TRIAL AVERAGE						Allegan - Early				Ingham - Early				Saginaw - Early							
BRAND / HYBRID	RM	TRT	TRAIT	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd
AGRIGOLD A6252STXRIB	100	P500	1,2,3,4,6	19.6	232.4	58.4	0.6	99	22.0	229.5	57.2	0.0	96	17.7	234.4	59.3	1.4	100	19.1	233.4	58.7	0.3	100
AGRIGOLD A6257STXRIB	100	P500	1,2,3,4,6	20.4	243.1	58.1	5.3	100	22.0	245.4 *	57.2	0.3	100	19.2	242.8	58.3	15.5	100	19.9	241.3 *	58.8	0.3	100
CHANNEL 197-33STXRIB	97	PV500	1,2,3,4,6	19.7	236.5	59.1	1.9	99	22.8	234.9	56.9	0.9	98	18.2	236.5	59.2	4.8	100	18.1	238.3 *	61.3	0.0	100
CHANNEL 197-68STXRIB	97	PV500	1,2,3,4,6	20.3	236.3	58.0	2.6	99	22.6	236.8	57.0	0.6	100	18.3	247.7	58.8	6.4	94	19.9	230.5	58.1	0.9	100
CHANNEL 199-54VT2PRIB	99	PV500	1,2	20.3	236.0	58.4	0.5	99	22.6	235.1	57.3	0.0	97	18.1	233.2	59.0	1.4	100	20.3	239.7 *	59.0	0.0	100
CROPLAN 3733VT2PRIB	97	ACC	1,2	19.4	229.6	58.0	7.1	99	22.5	228.8	56.8	0.0	100	18.1	232.8	58.1	21.3	96	17.7	227.3	59.2	0.0	100
CROPLAN 3737SS	97	ACC	1,2,3,4,6	18.0	236.1	58.9	0.3	100	19.8	237.6	58.2	0.0	100	17.2	239.7	58.7	0.8	100	17.0	230.9	59.8	0.0	100
CROPLAN 3899VT2PRIB	96	ACC	1,2	20.2	250.9 *	58.5	3.1	99	22.6	261.4 **	56.7	0.0	97	18.9	242.1	60.0	9.3	100	19.1	249.0 *	58.8	0.0	100
CROPLAN 4099SS/RIB	99	ACC	1,2,3,6	20.7	249.6 *	57.9	3.0	100	22.5	249.3 *	57.1	0.3	100	19.6	251.5 *	57.5	8.8	99	19.9	248.1 *	59.1	0.0	100
CROPLAN 4199SS	101	ACC	1,2,3,6	21.1	246.9	57.6	2.2	99	24.2	243.6	55.4	0.0	97	18.9	250.1 *	58.6	6.5	100	20.1	247.1 *	58.8	0.0	100
DAIRYLAND SEED DS-9501SSX	101	C250	1,2,3,4,6	18.6	220.4	58.6	0.8	98	19.8	207.9	58.0	0.0	96	17.7	231.8	59.0	2.3	100	18.4	221.6	58.8	0.0	99
DAIRYLAND SEED DS-9898RA	98	C250	1,2,3,4,6	20.8	229.5	57.6	2.0	100	23.0	240.6	58.2	0.3	100	19.3	223.8	58.3	5.6	100	20.0	224.1	58.4	0.0	100
DEKALB DKC46-20 GENVT3PRIB	96	P500	1,2,3	18.6	232.4	60.9	3.5	100	21.1	231.4	59.5	0.9	99	17.2	239.8	61.1	9.6	100	17.7	226.1	62.1	0.0	100
DEKALB DKC48-12 GENSSRIB	98	P500	1,2,3,4,6	18.6	231.3	56.8	1.1	100	20.3	221.6	55.3	0.0	100	17.5	230.0	56.5	3.4	100	18.1	242.4 *	58.7	0.0	100
DEKALB DKC49-29 GENSSRIB	99	P500	1,2,3,4,6	19.1	225.3	58.9	0.0	98	20.4	222.5	57.9	0.0	97	18.1	230.0	59.1	0.0	97	18.7	223.3	59.8	0.0	100
DEKALB DKC50-83 GENVT3PRIB	100	P500	1,2	18.7	236.9	58.5	0.1	100	20.4	234.5	57.6	0.0	100	17.9	240.9	58.1	0.0	100	17.9	235.5	59.9	0.3	100
DYNAGRO 38SS50	97	P500	1,2,3,4,6	18.6	220.1	59.6	0.7	99	20.1	219.9	58.4	0.0	96	17.5	220.5	60.2	2.0	100	18.0	220.0	60.3	0.0	100
DYNAGRO D34VP52	94	P500	1,2,3	18.7	233.6	59.3	1.3	100	20.4	231.0	58.4	0.0	99	17.9	239.1	58.7	3.9	100	17.8	230.9	60.7	0.0	100
DYNAGRO D35VP40	95	P500	1,2,3	17.6	238.1	56.7	2.5	100	19.8	230.6	55.8	0.0	99	16.5	242.8	56.0	7.6	100	16.6	241.1 *	58.2	0.0	100
DYNAGRO D39VP14	99	P500	1,2,3	18.8	238.5	59.0	0.8	97	20.2	246.6 *	57.6	0.0	96	17.8	240.5	59.0	2.3	98	18.3	228.4	60.5	0.0	96
DYNAGRO D41SS71	101	P500	1,2,3,4,6	20.1	237.9	58.3	0.8	97	22.6	239.5	56.6	0.0	94	18.9	243.4	58.6	2.5	100	18.9	230.8	59.6	0.0	97
NuTech/G2 GENETICS 3F-198™	98	C250	1,2,4	18.9	240.6	55.8	1.4	99	22.5	245.0	54.5	0.0	98	17.2	244.3	56.1	4.2	100	17.0	232.6	56.9	0.0	100
NuTech/G2 GENETICS 5H-399™	99	C250	1,2,4	19.4	233.2	56.3	3.7	99	21.5	228.9	55.2	0.3	99	18.9	246.5	56.1	10.9	98	17.7	224.3	57.7	0.0	100
NuTech/G2 GENETICS 5Z-200™	100	P1250	1,2,4	19.9	228.8	57.5	8.7	97	23.2	236.9	55.8	0.3	96	18.6	224.0	57.7	25.9	100	18.0	225.4	58.9	0.0	95
GOLDEN HARVEST G99Z33-3011A	99	C250	1,2,3,4	19.9	233.0	57.9	5.3	96	22.1	242.5	56.5	0.6	96	18.8	230.4	58.7	15.2	100	19.0	226.1	58.6	0.0	94
GOLDEN HARVEST G01U28-3111	101	C250	1,2,3,4,6	20.0	231.9	58.8	1.1	99	23.3	232.3	57.3	2.0	99	18.2	241.9	59.2	1.4	99	18.5	221.6	59.9	0.0	100
GOLDEN HARVEST G01P52-3011A	101	C250	1,2,3,4	20.2	234.3	58.8	2.5	100	23.0	239.4	57.6	0.0	99	18.4	236.1	59.1	7.3	100	19.2	227.6	59.9	0.3	100
GREAT LAKES 4879STXRIB	98	P500	1,2,3,6	20.2	248.9 *	58.3	6.3	100	22.6	252.7 *	56.9	0.0	100	18.8	251.2 *	58.7	18.8	100	19.3	242.9 *	59.3	0.0	100
GREAT LAKES 5015STXRIB	100	P500	1,2,3,6	20.3	237.6	58.4	1.2	99	23.2	230.8	57.1	1.4	98	18.2	244.2	58.7	2.0	100	19.7	237.9 *	59.4	0.3	99
HYLAND SEEDS 4398	96	P250	1,2,3,4	18.0	229.2	59.5	2.3	100	19.8	227.9	58.4	0.0	100	17.8	239.6	59.7	6.8	99	16.5	220.0	60.5	0.0	100
HYLAND SEEDS 8450RA	98	P250	1,2,3,4,6	20.6	223.6	57.4	1.3	100	23.1	236.2	55.9	0.0	99	19.3	232.9	58.5	3.9	100	19.4	201.7	57.8	0.0	100
HYLAND SEEDS 8505RA	101	P250	1,2,3,4,6	21.4	239.4	57.1	3.2	100	24.3	233.5	55.8	0.0	100	19.3	245.3	58.5	9.6	100	20.7	239.3 *	57.1	0.0	100
HYLAND SEEDS 8515RA	101	P250	1,2,3,4,6	20.6	221.7	59.1	1.2	99	22.6	228.8	58.3	0.0	99	18.9	231.9	59.8	3.7	98	20.2	204.5	59.1	0.0	100
HYLAND SEEDS HLCVR68	98	P250	1,2,3	19.5	237.8	59.7	6.0	100	22.2	241.8	58.1	1.1	100	17.9	244.7	59.9	16.9	100	18.5	226.9	61.1	0.0	100
LEGACY SEEDS L-3712 VT3PRO	96	P250	1,2,3	18.7	228.8	59.4	0.3	99	20.6	231.4	58.1	0.0	100	17.5	223.8	59.4	0.9	97	17.9	231.1	60.7	0.0	99
LEGACY SEEDS L-3813 GENSS	96	P250	1,2,3	19.7	235.9	58.1	0.1	100	22.3	238.0	56.6	0.3	99	18.1	245.6	58.2	0.0	100	18.7	224.2	59.7	0.0	100
LEGACY SEEDS L-4113 GENSS	100	P500	1,2,3,4	19.6	228.7	58.8	0.1	100	20.5	226.5	58.4	0.0	99	19.3	239.4	58.8	0.3	100	19.2	220.0	59.1	0.0	100
LEGACY SEEDS L-4343 VT3PRO	101	P250	1,2,3	18.7	235.2	58.8	2.4	99	20.5	222.8	58.1	0.6	99	17.6	245.7	58.7	6.6	99	17.9	237.2	59.7	0.0	100
LEGEND LR9497 GENSS	97	P500	1,2,3,4,6	19.7	231.0	57.8	0.2	99	22.2	227.5	56.5	0.0	99	17.9	235.7	57.5	0.6	99	18.9	229.6	59.3	0.0	100
MYCOGEN 2A509	101	C250	1,2,3,4,6	20.8	215.0	58.5	0.7	100	22.5	213.9	57.5	0.0	99	18.8	222.4	59.4	2.0	100	21.0	208.8	58.6	0.0	100
MYCOGEN 2Y479	98	C250	1,2,3,4,6	21.0	225.9	57.7	2.9	99	22.6	232.0	55.6	0.0	98	18.8	220.1	59.2	8.7	100	21.5	225.5	58.2	0.0	100
NK Brand N42Z-3011A	99	C250	1,2,3,4	19.1	228.8	57.6	2.1	98	21.6	241.5	57.1	0.0	95	17.5	216.9	57.4	6.2	100	18.2	228.1	58.4	0.0	98
NK Brand N45P-3011A	101	C250	1,2,3,4	19.3	237.0	59.1	0.8	100	21.2	241.0	57.8	0.6	100	18.3	243.9	59.6	1.7	100	18.6	226.0	59.8	0.3	100
NK Brand N46U-3111	101	C250	1,2,3,4,6	19.0	222.8	59.1	2.1	98	20.7	218.7	58.3	2.3	99	17.4	229.7	59.2	4.1	96	18.8	220.0	60.0	0.0	100
NuTech 5N-001™	101	C250	1,2,3,4	18.9	234.9	55.8	3.0	98	19.9	225.9	55.2	0.6	100	18.5	252.3 *	54.7	7.7	95	18.2	226.4	57.5	0.9	98

	NuTech 5N-803™	C250	1,2,3,4	20.7	244.7	57.6	2.4	93	23.1	243.6	56.1	0.6	93	18.8	263.3 *	58.1	6.6	91	20.3	227.3	58.5	0.0	95
PIONEER P0094AMX	C250	1,2,3,4,6	20.8	236.3	58.0	2.0	100	23.0	241.7	56.7	0.0	100	19.1	247.4	58.4	6.0	99	20.2	219.8	59.0	0.0	100	
PIONEER P9675AMXT	C250	1,2,3,4,6	18.8	227.4	59.0	7.4	100	20.2	235.0	57.4	0.0	100	18.0	230.4	58.9	5.3	100	18.3	216.9	60.8	16.9	100	
PIONEER P9690AM	P1250	1,2,4,6	18.8	234.1	58.0	0.3	100	20.4	232.0	56.0	0.0	99	18.4	237.4	58.1	0.9	100	17.6	232.9	60.0	0.0	100	
PIONEER P9754YHR	C250	1,2,4,6	19.3	219.1	61.1	0.9	100	20.1	224.0	60.0	0.0	100	19.2	223.8	61.6	2.8	100	18.6	209.6	61.8	0.0	100	
RUPP XRD000-27	C250	1,2	20.4	230.9	58.3	5.1	99	22.7	233.3	57.2	0.0	97	19.2	232.8	58.6	1.1	100	19.3	226.6	59.1	14.1	99	
RUPP XRD90-64	C250	1,2	18.0	226.9	57.9	3.5	99	20.6	239.8	57.2	0.0	98	17.0	226.9	57.2	10.4	100	16.4	213.9	59.4	0.0	100	
RUPP XRJ97-17	C250	1,2,3,4,6	20.1	226.0	58.5	0.0	100	22.4	229.1	57.2	0.0	99	18.7	224.7	59.0	0.0	100	19.3	224.3	59.2	0.0	100	
RUPP XRJ98-11	P250	1,2,3,4,6	19.6	228.0	59.6	0.7	100	21.7	230.3	58.6	0.3	100	18.6	229.3	59.0	2.0	100	18.6	224.4	61.3	0.0	100	
RUPP XRT94-06	P250	1,2,3,4	18.6	228.7	59.9	1.3	100	20.2	231.4	58.4	0.0	100	17.8	228.0	59.4	3.9	100	17.9	226.6	62.1	0.0	100	
SEED CONSULTANTS SCS 1032AM1™	P1250	1,2,3,4	20.9	234.0	60.4	1.7	100	23.7	238.1	59.2	0.3	99	20.1	244.1	60.8	4.8	100	19.0	219.8	61.3	0.0	100	
SEED CONSULTANTS SCS 10HQ02™	C250	1,2,3,4	21.2	221.1	58.2	2.0	98	24.7	210.2	56.3	0.0	93	19.2	238.0	59.0	5.1	100	19.7	215.0	59.3	0.9	100	
SEED CONSULTANTS SCS 924YHR™	P1250	1,2	18.7	227.4	56.7	9.0	99	17.9	223.7	56.7	0.0	99	17.9	231.1	56.8	18.1	99	---	---	---	---	---	
SPECIALTY 25A113	P500	1,2,3,4,6	17.8	223.7	60.5	0.8	100	18.6	212.7	60.5	0.0	100	17.2	229.5	59.8	1.4	100	17.6	228.8	61.4	0.9	100	
SPECIALTY 29A263	P500	1,2,3,4,6	19.7	257.1 **	57.7	0.8	100	22.4	253.1 *	56.2	0.0	100	18.0	266.1 **	58.6	2.5	99	18.7	252.0 **	58.2	0.0	100	
SPECIALTY 42R32GENVT3P	P500	1,2,3	17.8	226.5	58.6	0.4	100	18.8	235.7	57.5	0.3	100	17.4	212.2	58.3	0.9	99	17.2	231.6	60.2	0.0	100	
SPECIALTY 82R08GENSS	P500	1,2,3,4,6	18.5	231.2	60.8	1.7	100	20.5	245.1	59.7	0.0	100	17.2	233.9	60.8	5.1	100	17.8	214.6	62.0	0.0	100	
STEYER 9503 VIP3111	C250	1,2,3,4,6	19.2	232.3	59.0	2.2	100	22.5	237.5	57.2	0.6	99	17.7	227.3	59.2	6.2	100	17.4	232.2	60.8	0.0	100	
STEYER 9603 VT2PRORIBC	C250	1,2	18.7	215.2	59.5	9.5	100	21.3	234.0	57.8	0.0	100	17.7	199.7	59.1	27.8	99	17.3	211.8	61.5	0.6	99	
STEYER 10004 GENSSRIBC	C250	1,2,3,4,6	20.7	225.1	58.8	0.5	100	23.2	229.4	57.4	0.3	99	18.8	222.5	59.0	1.1	100	20.2	223.5	60.0	0.0	100	
STEYER 10102 GENSSRIBC	C250	1,2,3,4,6	18.5	236.3	58.7	1.9	100	19.7	228.5	57.9	0.0	100	17.7	245.4	59.2	5.6	100	18.2	235.0	58.9	0.0	100	
STEYER 9203 VT2PRORIBC	C250	1,2	18.4	233.2	59.8	0.8	100	20.3	230.1	58.2	0.0	100	17.2	238.5	60.8	2.5	100	17.7	230.9	60.5	0.0	100	
STEYER 9801 VIP3111	C250	1,2,3,4,6	19.2	224.2	58.8	4.0	97	21.0	228.3	57.7	0.0	96	17.7	225.4	58.6	11.9	94	18.9	218.9	60.3	0.0	100	
UNITY SEEDS 7700 3000g†	C250	1,2,3,4	21.6	227.8	56.3	4.0	100	25.0	209.5	55.0	0.0	100	19.6	238.4	57.0	12.1	100	20.2	235.5	57.0	0.0	100	
AVERAGE			19.5	232.2	58.5	2.3	99	21.7	233.0	57.2	0.2	99	18.2	235.9	58.7	6.1	99	18.7	227.8	59.5	0.5	100	
HIGHEST			21.6	257.1	61.1	9.5	100	25.0	261.4	60.5	2.3	100	20.1	266.1	61.6	27.8	100	21.5	252.0	62.1	16.9	100	
LOWEST			17.6	215.0	55.8	0.0	93	18.6	207.9	54.5	0.0	93	16.5	199.7	54.7	0.0	91	16.4	201.7	56.9	0.0	94	
CV (%)			5.0	6.0	1.6	268.0	2.6	5.9	5.9	1.6	392.5	3.0	3.6	6.4	1.4	146.0	3.0	4.9	5.3	1.7	99.5	2.0	
LSD (5%)			0.7	9.3	0.6	4.0	1.7	1.5	16.0	1.1	1.0	3.0	0.8	17.5	1.0	10.5	4.0	1.1	14.1	1.2	6.3	2.0	

** Highest Yielding Hybrid
* Not Significantly Different from Highest Yielding Hybrid

TABLE 2L. ALLEGAN, INGHAM & SAGINAW COUNTY GRAIN TRIALS - LATE (102 Day and Later) ZONE 2

BRAND /HYBRID	RM	TRT	TRAIT	Late - TRIAL AVERAGE				Allegan - Late				Ingham - Late				Saginaw - Late							
				%H2O	BU/A	Twt	%SL %Scd	%H2O	BU/A	Twt	%SL %Scd	%H2O	BU/A	Twt	%SL %Scd	%H2O	BU/A	Twt	%SL %Scd				
AGRI-GOLD A6267STX	102	P500	1,2,3,4,6	22.3	232.5	56.8	4.5	100	24.5	244.4	56.8	0.3	99	19.2	227.5	57.7	13.2	100	23.3	225.6*	55.8	0.0	100
	103	P500	1,2,3	21.0	232.6	58.5	2.0	98	24.3	245.2	57.4	0.0	96	17.7	229.4	59.8	5.3	98	20.9	223.2	58.4	0.8	100
	102	PV500	1,2,3,4,6	21.0	220.4	54.9	0.6	99	26.7	224.5	54.2	0.6	98	17.4	216.8	56.7	0.9	100	18.9	219.9	54.0	0.3	98
	103	PV500	1,2,3,4,6	21.6	222.1	58.0	6.2	99	23.7	235.4	58.0	0.0	97	19.2	218.2	58.9	18.5	100	22.0	212.6	57.1	0.0	100
	102	ACC	1,2,3	21.3	245.0*	58.0	3.7	100	25.5	267.0*	57.1	0.8	100	18.0	247.1*	58.9	10.4	100	20.3	220.9	58.1	0.0	100
	103	ACC	1,2,3	21.8	234.1	57.6	3.4	99	21.7	252.7	56.0	0.0	98	17.5	231.9	60.1	9.6	100	20.2	217.7	56.7	0.6	100
	104	C250	1,2,3,4,6	21.9	208.1	58.1	0.9	99	25.1	218.7	57.2	0.9	100	18.8	213.8	59.3	2.0	98	21.8	191.9	57.7	0.0	98
	104	C250	1,2,3,4	22.5	223.5	56.3	6.5	99	26.1	240.2	55.8	0.9	99	19.0	225.0	57.8	15.6	99	22.5	205.4	55.2	3.1	99
	102	P500	1,2,3	21.0	235.1	57.6	7.1	99	23.3	261.2*	58.0	0.0	100	18.5	227.2	57.9	21.4	97	21.3	216.9	56.9	0.0	100
	102	P500	1,2	20.2	232.6	58.0	0.9	99	23.0	244.0	57.9	0.0	99	18.1	241.0*	58.8	2.8	99	19.5	212.8	57.3	0.0	100
AGRI-GOLD A6319VT3PRIB	103	P500	1,2,3,4,6	22.4	236.6	57.3	0.5	100	25.4	242.3	56.5	0.0	100	19.4	240.3*	58.6	1.4	100	22.5	227.3*	56.8	0.0	100
	103	P500	1,2,3,4,6	21.5	233.2	56.8	5.3	99	23.6	238.9	56.2	0.0	99	18.0	235.3	58.1	16.0	100	22.9	225.3*	56.2	0.0	99
	104	P500	1,2,3,4,6	22.1	227.8	57.8	9.0	100	24.8	246.0	57.4	0.0	99	19.2	218.2	58.3	26.4	100	22.2	219.2	57.6	0.6	100
	102	C250	1,2,4	20.7	228.9	57.8	2.2	97	26.4	239.8	57.5	0.0	100	20.1	232.1	59.8	1.7	100	23.9	226.2*	57.4	1.4	99
	105	P1250	1,2,4	22.5	236.8	57.3	4.5	99	26.1	233.2	56.3	0.0	95	19.0	243.5*	58.9	13.4	99	22.6	233.7*	56.7	0.0	100
	106	C250	1,2,4	22.0	239.6*	57.9	1.3	97	23.5	253.2	57.3	0.0	96	19.4	230.3	59.1	3.9	99	23.3	235.2*	57.3	0.0	97
	105	C250	1,2,4	21.3	245.5*	56.7	8.5	100	25.5	268.6**	55.4	0.6	100	18.2	246.7*	58.4	24.8	99	20.4	221.3	56.3	0.0	100
	105	C250	1,2,3,4,6	23.6	225.5	57.3	1.7	96	26.3	235.1	56.5	0.6	94	20.0	233.4	58.6	4.5	100	24.4	208.0	56.9	0.0	95
	102	P500	1,2,3,6	22.2	235.8	57.1	1.5	100	24.4	243.7	56.6	0.8	100	19.2	243.9*	58.4	3.7	99	23.0	220.0	56.2	0.0	100
	103	P500	1,2,3	21.1	217.7	54.8	1.5	100	24.5	220.5	53.5	0.0	100	18.8	223.2	57.2	4.5	99	20.2	209.6	53.7	0.0	100
AGRI-GOLD A6267STX	105	P500	1,2,3	24.4	206.6	54.4	6.3	100	30.4	218.6	52.5	2.3	100	20.3	217.6	56.2	14.9	100	22.5	183.6	54.6	1.7	100
	107	P500	1,2,3	24.8	217.0	54.1	6.2	98	28.8	231.2	53.6	0.0	96	19.7	206.1	55.7	5.6	100	26.0	213.9	53.2	13.1	98
	110	P250	1,2,3,4	26.3	222.9	54.4	0.8	100	33.6	229.2	53.8	0.6	100	21.0	227.5	55.7	0.9	100	24.3	212.1	53.9	1.1	100
	104	P250	1,2,3,4,6	22.2	227.4	57.0	21.3	99	26.3	241.1	55.5	0.0	100	19.5	224.5	58.8	61.8	100	20.9	216.6	56.5	2.2	98
	103	P250	1,2,3,4,6	21.8	227.9	56.2	0.0	98	25.2	237.7	55.4	0.0	100	18.7	232.5	57.5	0.0	97	21.5	213.5	55.7	0.0	97
	104	P250	1,2,3,4,6	21.9	225.5	56.8	11.0	99	25.4	241.3	55.7	0.0	99	19.2	213.3	58.3	31.5	100	21.1	221.8	56.6	1.4	99
	106	P250	1,2,3,4,6	23.7	224.4	56.8	32.5	100	25.6	239.7	54.9	0.0	100	19.7	222.2	59.3	86.0	100	25.9	211.2	56.3	11.5	100
	107	P250	1,2,3,4,6	24.9	203.1	56.2	9.2	100	30.1	226.0	55.1	0.0	100	20.0	194.9	58.6	27.1	99	24.6	188.4	55.0	0.6	100
	102	P500	1,2,3,4	21.3	224.3	56.3	1.5	100	25.7	238.9	55.3	0.0	100	17.4	214.9	57.2	2.8	100	20.8	219.2	56.4	1.7	100
	104	P250	1,2,3	23.0	233.7	57.8	3.7	100	27.1	251.1	57.2	0.0	100	19.4	231.2	59.1	9.8	100	22.5	218.9	57.2	1.4	100
AGRI-GOLD A6267STX	106	P500	1,2,3,4	23.6	230.1	57.7	1.1	98	28.2	243.5	56.1	0.6	95	19.9	230.2	59.4	2.8	100	22.7	216.5	57.7	0.0	99
	100	P500	1,2,3,4,6	20.9	215.9	58.4	4.8	94	23.6	245.3	58.0	1.9	90	17.3	195.9	59.1	10.3	99	21.9	206.3	58.2	2.1	94
	105	C250	1,2,3,4,6	23.9	209.3	56.5	7.3	100	27.7	228.7	55.7	1.1	99	19.1	215.8	58.5	12.1	100	25.0	183.3	55.3	8.7	99
	102	C250	1,2,3,4,6	20.3	231.8	59.2	18.4	99	23.3	259.7*	58.2	0.9	98	17.4	205.8	61.0	52.2	99	20.2	230.1*	58.4	2.0	99
	102	P1250	1,2,4,6	21.9	238.2	57.1	1.0	99	25.0	254.2*	56.1	0.0	100	18.8	245.3*	58.8	2.7	96	21.8	215.1	56.5	0.3	100
	102	C250	1,2,3,4,6	20.2	224.6	59.4	2.0	100	22.6	239.5	58.7	0.3	100	18.5	225.9	59.7	5.7	99	19.5	208.4	59.8	0.0	100
	104	C250	1,2,3,4,6	21.8	225.9	58.1	4.1	97	24.1	243.9	57.4	0.0	94	18.9	214.0	59.6	12.1	100	22.3	219.8	57.2	0.3	96
	106	P1250	1,2,4,6	21.1	227.5	59.2	5.9	100	25.6	260.3*	57.8	0.0	99	17.7	220.7	60.8	16.3	100	20.1	201.4	59.1	1.4	100
	108	C250	1,2,3,4,6	24.0	221.7	59.6	3.7	99	27.4	232.9	58.8	0.9	99	20.4	219.4	61.4	9.0	99	24.2	212.7	58.8	1.1	100
	109	C250	1,2,3,4,6	24.2	233.8	56.7	7.4	99	28.9	239.2	56.1	0.6	97	20.3	237.4	58.4	21.1	99	23.5	224.8*	55.7	0.6	100

Table with columns for Hybrid/Year, RM, TRI, TRAIT, and various performance metrics. Includes data for PIONEER P0970AMX through PIONEER P0993HR and various consultant hybrids.

2 Year Averages 2013 - 2012. Table with columns for Late - TRIAL AVERAGE, Alleghan - Late, Ingham - Late, and Saginaw - Late. Includes data for NuTech/G2 GENETICS hybrids.

** Highest Yielding Hybrid
* Not Significantly Different from Highest Yielding Hybrid

TABLE 3E. HURON, MASON & MONTCALM COUNTY GRAIN TRIALS - EARLY (97 Day and Earlier) ZONE 3

BRAND / HYBRID	RM	TRT	TRAIT	Early - TRIAL AVERAGE					Huron - Early					Mason - Early					Montcalm - Early										
				%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd						
				21.9	233.5	57.4	0.1	100	17.2	243.2	59.1	0.0	100	26.6	223.7	55.8	0.3	99											
CHANNEL 192-09VT3PRIB	92	PV500	1,2,3	23.8	244.5	56.7	0.3	99	20.6	242.8	57.8	0.6	100	26.9	246.2*	55.6	0.0	98											
CHANNEL 197-33STXRIB	97	PV500	1,2,3,4,6	23.8	264.0**	56.8	1.1	100	20.8	271.7**	58.0	1.1	100	26.8	256.2**	55.7	1.1	100											
CHANNEL 197-68STXRIB	97	PV500	1,2,3,4,6	20.8	224.1	58.1	0.4	99	16.9	237.4	59.5	0.0	100	24.6	210.9	56.6	0.9	99											
CROPLAN 2845SSRIB	89	ACC	1,2,3,4,6	20.8	223.9	57.3	0.4	100	17.6	227.1	58.1	0.6	100	24.0	220.6	56.5	0.3	100											
CROPLAN 3055VT2P	92	ACC	1,2	21.7	241.0	58.1	0.0	99	18.6	236.3	59.8	0.0	100	24.9	245.8*	56.5	0.0	97											
CROPLAN 3399SS	93	ACC	1,2,3,4,6	21.5	231.3	57.1	0.8	100	18.8	228.1	57.7	0.6	100	24.2	234.5*	56.6	1.1	100											
CROPLAN 3733VT2P/RIB	97	ACC	1,2	22.3	250.8	58.1	1.6	100	20.4	250.5	59.7	0.0	100	24.1	251.0*	56.6	3.1	100											
CROPLAN 3899VT2P/RIB	96	ACC	1,2	21.1	211.7	56.2	1.3	100	18.2	212.4	55.9	2.5	100	24.1	211.0	56.6	0.0	100											
DAIRYLAND SEED DS-9487RA	87	C250	1,2,3,4,6	22.0	201.6	56.6	0.6	99	20.1	224.9	56.7	0.9	98	24.0	178.4	56.5	0.3	100											
DAIRYLAND SEED DS-9694SSX	94	C250	1,2,3,4,6	21.3	232.0	57.0	0.7	100	18.3	227.2	57.6	1.4	100	24.4	236.8*	56.4	0.0	100											
DAIRYLAND SEED DS-9791RA	91	C250	1,2,3,4,6	21.6	224.9	57.1	0.4	100	17.4	231.4	58.3	0.9	100	25.9	218.4	55.9	0.0	100											
DEKALB DKC38-04 GENSSRIB	88	P500	1,2,3,4,6	20.8	227.8	57.9	0.1	100	17.9	239.6	59.1	0.0	100	23.7	216.0	56.6	0.3	99											
DEKALB DKC41-32 GENSSRIB	91	P500	1,2,3,4,6	20.1	241.9	57.6	0.6	100	17.9	252.3	58.0	0.8	100	22.3	231.5*	57.3	0.3	99											
DEKALB DKC43-10 GENVT2PRIB	93	P500	1,2	21.1	258.0*	58.8	0.1	95	18.6	270.8*	60.7	0.0	89	23.7	245.3*	56.9	0.3	100											
DEKALB DKC46-20 GENVT3PRIB	96	P500	1,2,3	20.1	235.2	57.9	0.4	100	17.4	234.6	58.7	0.0	100	22.8	235.8*	57.1	0.9	100											
DYNAGRO D29SS30	90	P500	1,2,3,4,6	22.4	220.6	57.1	1.9	98	17.9	246.4	58.8	0.6	99	27.0	194.8	55.4	3.2	97											
DYNAGRO D31VP31	91	P500	1,2,3	21.1	241.0	58.1	0.6	100	19.0	237.9	59.3	0.0	99	23.3	244.0*	56.9	1.1	100											
DYNAGRO D34VP52	94	P500	1,2,3	19.8	244.1	57.7	0.0	100	17.0	252.5	58.2	0.0	100	22.6	235.6*	57.2	0.0	99											
DYNAGRO D35VP40	95	P500	1,2,3	21.3	248.6	58.0	0.1	100	19.7	252.8	58.8	0.3	100	22.9	244.3*	57.1	0.0	100											
DYNAGRO D38SS50	97	P500	1,2,3,4,6	18.8	211.3	58.5	1.5	100	16.9	207.7	58.9	2.8	100	20.6	215.0	58.1	0.3	100											
GOLDEN HARVEST G88M78-3110/	88	C250	1,2,4,6	18.8	240.8	57.7	0.9	100	16.8	234.9	57.5	1.4	99	20.7	246.6*	57.9	0.3	100											
GOLDEN HARVEST G92T43-3111	92	C250	1,2,3,4,6	23.0	234.2	56.8	2.1	99	19.8	237.7	57.9	1.4	100	26.3	230.8*	55.8	2.9	99											
GOLDEN HARVEST G97S12-3000C	97	C250	1,2,3,4	22.5	229.8	56.7	0.4	100	19.7	234.5	57.2	0.9	100	25.3	225.2	56.2	0.0	100											
GREAT LAKES 4206STXRIB	92	P500	1,2,3,6	20.9	221.0	58.7	0.7	99	19.5	224.1	60.1	0.0	99	22.3	217.9	57.3	1.4	98											
GREAT LAKES 4457VT3PRIB	94	P500	1,2,3	22.0	237.0	58.1	0.7	100	19.4	241.4	59.8	0.9	100	24.6	225.9	56.4	0.6	100											
GREAT LAKES 4567VT3PRIB	95	P500	1,2,3	19.5	229.4	58.1	1.6	100	17.2	234.2	58.9	0.0	100	21.9	224.5	57.4	3.2	99											
HYLAND SEEDS 4398	96	P250	1,2,3,4	20.6	212.1	56.8	13.9	100	17.9	223.4	56.7	0.0	100	23.3	200.9	56.9	27.8	100											
HYLAND SEEDS 8300RA	91	P250	1,2,3,4,6	21.1	215.2	56.8	13.9	100	18.3	228.0	57.0	0.0	100	24.0	202.4	56.6	27.8	100											
HYLAND SEEDS 8315RA	92	P250	1,2,3,4,6	21.2	243.2	58.1	0.6	100	18.4	247.7	59.4	0.0	100	23.9	238.8*	56.8	1.1	100											
LEGACY SEEDS L-3043 VT2PRO	92	P250	1,2	23.5	233.7	57.4	0.4	100	19.9	249.7	58.8	0.0	100	27.1	217.7	56.0	0.9	100											
LEGACY SEEDS L-3712 VT3PRO	96	P250	1,2,3	23.1	228.1	57.3	0.0	99	19.7	229.5	58.9	0.0	99	26.5	226.6	55.7	0.0	99											
LEGACY SEEDS L-3813 GENSS	96	P250	1,2,3	21.5	233.0	58.2	0.0	100	19.6	250.7	59.7	0.0	100	23.5	215.2	56.8	0.0	100											
LEGEND LR9495 VT3P	95	P500	1,2,3	22.4	234.8	57.2	0.0	99	20.3	245.7	58.0	0.0	100	24.6	238.8	56.4	0.0	98											
LEGEND LR9497 GENSS	97	P500	1,2,3,4,6	19.3	218.2	57.9	4.5	100	17.0	224.5	58.3	7.9	100	21.7	211.9	57.6	1.1	100											
NK Brand N23M-3110A	88	C250	1,2,4,6	20.1	233.5	56.7	0.8	100	16.8	236.2	56.7	1.7	100	23.4	230.8*	56.8	0.0	100											
NK Brand N29T-3111 Brand	92	C250	1,2,3,4,6	22.7	234.9	57.1	0.6	95	19.9	231.4	58.2	1.1	99	25.4	238.4*	56.0	0.0	91											
NK Brand N37S-3000GT	97	C250	1,2,3,4	21.3	237.2	58.0	8.2	100	19.2	226.2	59.1	7.0	100	23.4	248.3*	56.9	9.3	100											
NuTech 5N-197™	97	C250	1,2,3,4	19.7	238.5	57.7	2.4	100	17.9	239.2	57.7	0.6	100	21.6	237.9*	57.6	4.3	99											
NuTech/G2 GENETICS 5X-894™	94	P1250	1,2,3,4	24.7	188.5	56.0	1.4	100	19.7	174.1	57.3	2.8	100	29.7	203.0	54.8	0.0	100											
NuTech/G2 GENETICS 5Z-9605™	96	P1250	1,2,4																										

RENK RK568VT3P	95	P250	1,2,3	20.8	245.0	58.4	0.3	100	18.9	247.6	59.6	0.0	100	22.7	242.4 *	57.2	0.6	100
RUPP XRD90-64	90	C250	1,2	20.0	242.4	57.7	1.0	100	18.1	242.0	57.9	1.4	100	22.0	242.8 *	57.5	0.6	99
RUPP XRD97-56	97	C250	1,2	20.6	245.3	57.4	1.5	100	18.7	248.9	57.5	0.6	100	22.4	241.8 *	57.2	2.5	99
RUPP XRJ97-17	97	C250	1,2,3,4,6	23.1	231.1	56.8	1.6	97	21.1	250.1	57.4	2.3	100	25.2	212.1	56.2	0.9	94
RUPP XRT94-06	94	P250	1,2,3,4	23.0	228.6	57.5	1.1	99	19.1	233.6	59.2	0.8	100	27.0	223.7	55.8	1.4	99
STEYER 9503 VIP3111	95	C250	1,2,3,4,6	21.9	227.4	57.2	3.4	100	19.3	218.4	57.9	2.0	100	24.5	236.3 *	56.5	4.8	99
STEYER 9603 VT2PRORIBC	96	C250	1,2	20.7	233.8	58.8	1.8	99	18.0	241.8	60.9	2.8	100	23.5	225.9	56.8	0.9	99
STEYER 9208 VT2PRORIBC	92	C250	1,2	21.2	237.1	57.8	0.1	100	18.8	240.8	58.8	0.0	100	23.6	233.5 *	56.8	0.3	100
AVERAGE				21.4	232.4	57.6	1.6	99	18.7	237.0	58.5	1.1	99	24.1	227.7	56.6	2.1	99
HIGHEST				24.7	264.0	59.0	13.9	100	21.1	271.7	60.9	7.9	100	29.7	256.2	58.1	27.8	100
LOWEST				18.8	188.5	56.0	0.0	95	16.8	174.1	55.9	0.0	89	20.6	178.4	54.8	0.0	91
CV (%)				5.8	6.7	1.4	491.6	3.0	4.1	5.7	1.4	174.9	4.0	9.4	10.0	1.4	529.0	2.0
LSD (5%)				1.0	12.9	0.7	6.5	3.0	0.9	15.9	1.0	2.3	5.0	2.7	26.7	0.9	12.7	2.0

2 Year Averages 2013 - 2012																			
BRAND / HYBRID	RM	TRT	TRAIT	Early - TRIAL AVERAGE					Huron - Early					Mason - Early					
				%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	
DYNAGRO D31VP31	91	P500	1,2,3	20.7	215.9	57.6	2.4	99	18.7	215.1 *	58.4	2.8	99	22.7	216.6	56.9	2.0	98	
DYNAGRO D34VP52	94	P500	1,2,3	20.8	226.2 *	57.9	1.5	96	20.5	208.2 *	57.8	1.8	100	21.1	244.2 *	58.0	1.3	92	
DYNAGRO D35VP40	95	P500	1,2,3	19.6	225.3 *	57.3	2.0	96	18.7	210.9 *	57.3	2.8	98	20.6	239.7 *	57.3	1.2	94	
GOLDEN HARVEST G92T43-3111	92	C250	1,2,3,4,6	18.2	218.1	57.1	6.2	98	17.3	183.4	56.4	11.4	100	19.2	252.9 **	57.9	1.1	97	
LEGACY SEEDS L-3712 VT3PRO	96	P250	1,2,3	22.2	227.3 *	57.5	2.0	98	21.0	214.5 *	57.5	1.7	100	23.3	240.2 *	57.5	2.3	96	
NK Brand N291T-3111 Brand	92	C250	1,2,3,4,6	19.0	206.6	56.9	14.1	100	17.3	184.3	56.2	25.3	100	20.8	229.0	57.6	2.8	99	
NuTech 5N-197™	97	C250	1,2,3,4	21.0	220.7	58.3	6.3	100	20.1	195.8	57.0	6.6	100	21.8	245.7 *	59.6	6.1	100	
RENK RK568VT3P	95	P250	1,2,3	20.8	229.3 **	57.9	1.5	99	20.8	218.7 **	58.0	0.8	98	20.9	239.9 *	57.8	2.1	100	
RUPP XRT94-06	94	P250	1,2,3,4	22.1	225.9 *	57.7	1.8	99	20.8	212.6 *	57.4	1.7	100	23.4	239.1 *	58.1	1.8	98	
AVERAGE				20.5	221.7	57.6	4.2	98	19.5	204.8	57.3	6.1	99	21.5	238.6	57.9	2.3	97	
HIGHEST				22.2	229.3	58.3	14.1	100	21.0	218.7	58.4	25.3	100	23.4	252.9	59.6	6.1	100	
LOWEST				18.2	206.6	56.9	1.5	96	17.3	183.4	56.2	0.8	98	19.2	216.6	56.9	1.1	92	
CV (%)				4.4	6.6	3.9	410.3	5.0	4.1	5.9	1.8	269.7	3.0	7.1	9.1	3.4	507.7	7.0	
LSD (5%)				0.5	8.2	1.2	4.5	3.0	0.6	11.1	0.8	5.7	3.0	1.4	17.2	1.6	9.0	6.0	

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

PIONEER P0210YXR	102	C250	1,2,3,4,6	22.0	250.6 *	57.7	1.8	99	20.2	245.9 *	58.6	0.9	100	23.9	255.2 *	56.8	2.8	97
PIONEER P0216AM	102	P1250	1,2,4,6	23.6	252.1 **	56.3	3.1	100	21.9	250.3 *	56.8	0.0	100	25.3	254.0 *	55.8	6.2	100
PIONEER P0255AMXT	102	C250	1,2,3,4,6	22.0	236.5	58.0	3.9	100	19.0	229.5	59.7	1.4	100	24.9	243.6 *	56.3	6.5	100
PIONEER P0993HR	109	P1250	1,2,4,6	26.1	234.7	54.8	4.1	101	23.4	211.9	54.8	4.5	103	28.8	257.6 *	54.9	3.7	100
RENK RK581SSSTX	100	P500	1,2,3,4,6	23.7	209.2	56.5	2.1	100	22.2	196.9	56.9	1.7	99	25.1	221.4	56.1	2.5	100
RENK RK598SSTX	100	P500	1,2,3,4,6	22.0	219.5	57.7	1.0	99	19.7	217.1	58.8	0.9	99	24.3	221.9	56.6	1.1	99
RENK RK629VT3P	102	P250	1,2,3	23.7	233.8	57.3	3.8	100	21.5	235.2	58.7	0.9	100	25.9	232.4	55.8	6.7	100
RENK RK666SSTX	102	P500	1,2,3,4,6	24.6	235.7	56.0	1.4	100	22.2	230.8	56.6	1.7	100	27.0	240.6	55.4	1.1	100
STEYER 10004 GENSSRIBC	100	C250	1,2,3,4,6	23.3	227.9	56.9	0.0	100	21.6	226.0	57.6	0.0	100	24.9	229.8	56.1	0.0	100
STEYER 10102 GENSSRIBC	101	C250	1,2,3,4,6	21.7	231.5	57.3	2.9	99	19.5	242.2 *	58.0	0.0	99	24.0	220.8	56.6	5.7	98
STEYER X3981BA VIP3111	98	C250	1,2,3,4,6	24.4	217.2	56.2	4.9	100	21.0	214.7	57.3	2.8	100	27.8	219.7	55.0	7.0	100
AVERAGE				23.0	233.5	56.6	2.8	99	21.0	229.4	57.2	1.2	99	25.1	237.7	56.1	4.3	99
HIGHEST				26.1	252.1	58.7	20.9	101	23.7	254.3	61.1	8.2	103	28.8	260.4	56.9	35.4	100
LOWEST				20.3	209.2	54.6	0.0	93	18.1	194.8	54.1	0.0	91	22.0	214.6	54.9	0.0	91
CV (%)				6.1	6.3	1.3	325.6	2.0	4.9	6.4	1.5	194.9	3.0	6.8	6.1	1.0	288.0	2.0
LSD (5%)				1.2	12.1	0.6	7.4	2.0	1.2	17.1	1.0	2.7	3.0	2.0	16.8	0.7	14.6	2.0

2 Year Averages 2013 - 2012																							
BRAND / HYBRID	RM	TRT	TRAIT	Late - TRIAL AVERAGE					Huron - Late					Mason - Late					Montcalm - Late				
				%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd
DYNAGRO D39VP14	99	P500	1,2,3	21.5	227.4 *	57.3	1.2	96	21.3	211.7 **	57.0	2.5	97	21.7	243.1	57.5	0.0	94					
NuTech 5N-001™	101	C250	1,2,3,4	23.3	215.3	54.3	2.7	96	22.3	175.7	53.0	2.9	97	24.4	254.8 *	55.6	2.6	94					
NuTech/G2 GENETICS 5H-202™	102	C250	1,2,4	21.7	223.6	59.3	3.3	98	21.1	190.7	59.7	3.7	100	22.2	256.5 *	58.8	2.9	97					
NuTech/G2 GENETICS 5H-399™	99	C250	1,2,4	22.3	221.8	55.3	2.7	98	21.9	184.5	54.7	1.7	100	22.8	259.1 *	55.8	3.7	97					
NuTech/G2 GENETICS 5H-502™	102	C250	1,2,4	23.1	234.4 **	56.6	1.4	94	21.9	208.9 *	57.0	0.8	96	24.3	260.0 **	56.2	2.0	92					
RENK RK629VT3P	102	P250	1,2,3	22.8	223.8	60.2	3.6	96	21.9	199.0	63.5	3.5	99	23.7	248.6 *	57.0	3.8	94					
AVERAGE				22.5	224.4	57.2	2.5	96	21.7	195.1	57.5	2.5	98	23.2	253.7	56.8	2.5	95					
HIGHEST				23.3	234.4	60.2	3.6	98	22.3	211.7	63.5	3.7	100	24.4	260.0	58.8	3.8	97					
LOWEST				21.5	215.3	54.3	1.2	94	21.1	175.7	53.0	0.8	96	21.7	243.1	55.6	0.0	92					
CV (%)				4.7	6.7	2.9	263.6	6.0	4.6	6.7	3.5	419.8	3.0	5.4	7.3	1.6	228.4	9.0					
LSD (5%)				0.6	8.3	0.9	3.7	3.0	0.8	12.2	1.7	5.2	2.0	1.1	14.5	0.7	7.6	7.0					

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

2 Year Averages 2013 - 2012

BRAND / HYBRID	RM	TRT	TRAIT	TRIAL AVERAGE			Grand Traverse - Early			Iosco - Early			Menominee - Late										
				%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd					
DYNAGRO D31VP31	91	P500	1,2,3	26.4	176.2	54.6	0.8	99	31.8	162.3	52.7	0.3	99	21.7	202.2*	56.1	0.8	100	25.7	163.9*	55.0	1.2	98
DYNAGRO D34VP52	94	P500	1,2,3	29.5	161.9	54.0	1.4	98	34.3	134.5	53.5	2.4	100	25.1	189.0	55.3	0.6	99	29.0	162.3*	53.3	1.3	95
DYNAGRO D35VP40	95	P500	1,2,3	25.8	184.8**	53.5	0.3	98	30.0	186.7**	52.5	0.0	100	21.8	210.3**	54.4	0.3	96	25.7	157.6*	53.8	0.6	97
NuTech/G2 GENETICS 5X-795™	94	C250	1,2,3,4	26.5	167.6	53.9	0.5	100	31.7	140.7	52.4	0.6	100	21.2	198.1	54.5	0.4	100	26.7	164.1**	54.7	0.4	100
AVERAGE				27.0	172.6	54.0	0.7	99	31.9	156.1	52.8	0.8	100	22.5	199.9	55.1	0.5	99	26.8	162.0	54.2	0.9	98
HIGHEST				29.5	184.8	54.6	1.4	100	34.3	186.7	53.5	2.4	100	25.1	210.3	56.1	0.8	100	29.0	164.1	55.0	1.3	100
LOWEST				25.8	161.9	53.5	0.3	98	30.0	134.5	52.4	0.0	99	21.2	189.0	54.4	0.3	96	25.7	157.6	53.3	0.4	95
CV (%)				4.1	6.9	1.8	516.1	4.0	4.1	11.0	1.7	1224.0	2.0	4.3	6.2	1.5	286.4	4.0	3.1	6.0	1.4	849.5	5.0
LSD (5%)				0.7	6.6	0.5	0.9	2.0	1.3	15.3	0.7	2.1	2.0	0.8	10.0	0.7	1.3	3.0	0.8	9.0	0.6	1.7	4.0

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

CODES NUMBERS FOR HYBRID TRAITS

Code Num.	Traits & Resistant Events
1	Glyphosate
2	European Corn Borer
3	Corn Rootworm
4	Liberty Link
5	Clearfield, IMI, IT, IR
6	Western Bean Cutworm
7	Brown Mid Rib
8	Leafy
9	High Oil
10	Waxy
11	HTF High Total Fermentable
12	HAE High Available Energy
13	HES High Extractable Starch
14	Other

TREATMENT CODES FOR SEED APPLIED INSECTICIDES

TRT	Seed Treatment	Chemical Rate
	No Seed Insecticide Applied	
C125	Cruiser® 125	0.125 mg Thiamethoxan per kernal
C250	Cruiser® 250	0.250 mg Thiamethoxan per kernal
C1250	Cruiser® 1250	1.25 mg Thiamethoxan per kernal
P250	Poncho® 250	0.25 mg Clothianidian per kernal
P1250	Poncho® 1250	1.25 mg Clothianidian per kernal
Cruiser® is a registered trademark of Syngenta Group Company		
Poncho® is a registered trademark of Gustafson LLC		



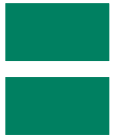


TABLE 5. DELTA & MENOMINEE (EARLY) COUNTY GRAIN TRIALS (93 Day and Earlier)

2013		TRIAL AVERAGE						Delta						Menominee - Early						
BRAND / HYBRID	RM	TRT	TRAIT	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd		
CHANNEL 192-09VT3PRIB	92	P500	1,2,3	One Location no trial average						Location inadvertently gleaned for silage						32.3	187.8 *	53.9	0.0	100
DEKALB DKC38-04 GENSSRIB	88	P500	1,2,3,4,6													32.4	184.7 *	54.0	0.6	99
DYNAGRO D29SS30	90	P500	1,2,3,4,6													30.8	182.5	54.1	0.3	96
DYNAGRO D31VP31	91	P500	1,2,3													30.7	180.6	54.2	0.0	100
GREAT LAKES 3591RR	85	P500	1													24.9	170.2	55.9	0.0	100
GREAT LAKES 3827VT3PRIB	88	P500	1,2,3													29.9	165.9	54.6	0.8	100
GREAT LAKES 4006VT2RIB	90	P500	1,2													31.7	188.6 *	54.1	1.1	100
GREAT LAKES 4282VT3PRIB	92	P500	1,2,3													29.2	168.8	54.7	3.1	98
HYLAND SEEDS 8201RA	84	P250	1,2,3,4,6													31.1	178.4	54.3	0.0	100
HYLAND SEEDS 8202RA	85	P250	1,2,3,4,6													32.0	193.9 *	54.0	0.3	99
HYLAND SEEDS 8295RA	88	P250	1,2,3,4,6													32.7	175.0	53.9	0.0	100
LEGEND LR9386 VT2P	86	P500	1,2													29.3	182.6	54.7	0.0	98
MYCOGEN 2G192	85	C250	1,2,4													27.7	158.9	55.3	1.1	100
MYCOGEN 2J238	86	C250	1,2,3,4,6													32.2	194.2 *	54.0	0.0	100
NuTech 5B-290™	90	C250	1,2,4													31.6	189.1 *	54.1	1.4	99
NuTech 5B-888™	88	C250	1,2,4													29.6	181.1	54.6	0.0	99
NuTech/G2 GENETICS 5X-193™	93	C250	1,2,3,4													32.0	192.4 *	54.1	0.0	100
NuTech/G2 GENETICS 5X-890™	90	C250	1,2,3,4													32.4	179.7	53.8	0.3	99
NuTech/G2 GENETICS 5Z-091™	91	P1250	1,2,4													31.7	196.4 **	54.2	0.3	99
PIONEER P9329VHR	93	P1250	1,2,4,6													30.9	182.8	54.5	0.0	99
AVERAGE																30.8	181.7	54.3	0.5	99
HIGHEST																32.7	196.4	55.9	3.1	100
LOWEST																24.9	158.9	53.8	0.0	96
CV (%)																4.5	5.8	0.7	235.7	2.0
LSD (5%)																1.6	12.5	0.5	1.3	3.0
2 Year Averages 2013 - 2012		TRIAL AVERAGE						Delta						Menominee - Early						
BRAND / HYBRID	RM	TRT	TRAIT	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd	%H2O	BUJA	Twt	%SL	%Sd		
DYNAGRO D31VP31	91	P500	1,2,3													25.3	151.5	54.9	2.3	97
NuTech 5B-290™	90	C250	1,2,4													26.5	163.8 **	53.0	0.9	94
NuTech 5B-888™	88	C250	1,2,4													24.6	150.0	56.0	2.5	89
NuTech/G2 GENETICS 5X-193™	93	C250	1,2,3,4													26.1	152.6	54.6	1.5	96
AVERAGE																25.7	154.5	54.6	1.8	94
HIGHEST																26.5	163.8	56.0	2.5	97
LOWEST																24.6	150.0	53.0	0.9	89
CV (%)																3.9	5.3	1.6	420.3	4.0
LSD (5%)																0.9	7.5	0.7	3.2	3.0

** Highest Yielding Hybrid
* Not Significantly Different from Highest Yielding Hybrid

TABLE B.

AGRONOMIC TABLE FOR GRAIN TRIAL LOCATIONS

	COUNTY	PLANTING DATES	HARVEST DATES	PREVIOUS CROP	100 % STAND	AVERAGE STAND	FERTILIZER N - P - K
Zone 1	WASHTENAW	May 7	Nov 5	Soybeans	35,244	34,891	178 - 9 - 3
	BRANCH	May 9	Nov 4	Corn	35,244	34,539	201 - 9 - 3
	CASS	May 5	Nov 10	Corn	36,828	35,354	271 - 9 - 3
Zone 2	ALLEGAN	May 8	Oct 23 & 25	Corn	35,244	34,539	141- 9 - 3
	INGHAM	May 6	Nov 8	Soybeans	35,244	34,891	190 - 9 - 3
	INGHAM CONV.	May 19	Nov 24	Soybeans	35,244	33,481	155 - 9 - 3
	SAGINAW & CONV.	May 14	Nov 3	Soybeans	35,244	34,891	155 - 9 - 3
Zone 3	HURON & Conv.	May 16	Nov 13	Corn	35,244	34,891	120 - 9 - 3
	MONTCALM & CONV.	May 15	Dec 2	-----	-----	-----	Dropped
	MASON	May 17	Dec 2	Carrots	35,244	34,891	21 - 9 - 3 + Pig manure
	IOSCO	May 28	Nov 12	Corn	35,244	34,186	170 - 9 - 3
Zone 4	GRAND TRAVERSE	May 20	Nov 14	Corn Red Clover	35,244	34,539	190 - 9 - 3 + manure
	MENOMINEE	May 29	Nov 26	Corn	35,244	34,539	119 - 9 - 3 + manure
Z5	DELTA	May 30	-----	-----	-----	-----	119 - 9 - 3

	COUNTY	SOIL TYPE	SOIL TEST	FARM COOPERATOR	LOCATION
Zone 1	WASHTENAW	Kibbie fine sandy loam 0-4% Slopes	pH 6.9 P 22, K 193.5	Mathew Talladay	Milan
	BRANCH	Fox Sandy Loam 0-2% Slopes	pH 5.9 P 43, K 100.5	Kyle Huff	Coldwater
	CASS	Kalamazoo Loam 0-6% Slopes	pH 6.4 P 29.5, K 142	George Brossman	Vandalia
Zone 2	ALLEGAN	Ockley Loam 1-6% Slopes	pH 5.9 P 77, K 303	Jim & John Schipper	Martin
	INGHAM	Capac Loam 0-3% Slopes	pH 6.15 P 49, K 173.5	Jorgensen Farms Jerry Jorgensen & Mike Turner	Williamston
	SAGINAW & Conv.	Brookston Loam 0-3% Slopes	pH 6.7 P 42.5, K 112	Fred Gross Farms Peggy Gross & Dick Birchmeier	New Lothrop
Zone 3	HURON & Conv.	Kilmanagh Loam	pH 6.7 P 119, K 241	Wil-Le Farms Ron & Ed McCrea	Bad Axe
	MONTCALM	Montcalm & McBride Loamy Sands 0-6% Slopes	pH 6 P 152, K 174	Sackett Farms Larry Sackett	Stanton
	MONTCALM Conv.	Montcalm & McBride Sandy Loam 0-6%	pH 6 P 152, K 174	AgBio Research Center, MSU Bruce Sackett	Entrican
	MASON	Fern-Marlette Complex 0-6% Slopes	pH 6.5 P 128, K 205	Robert Oshe Jacob Zwagerman	Scottville
Zone 4	IOSCO	Kawkawlin sandy Loam 0-6% Slopes	pH 7 P 48, K 172	Jeremy Beebe	Whittemore
	GRAND TRAVERSE	Karlin Sandy Loam 2-12% Slopes	pH 6.15 P 62, K 230	Ed Breitmeyer	Buckley
	MENOMINEE	Onaway fine Sandy Loam 3-9% Slopes	pH 7.4 P 14, K 75.5	Johnson Dairy Farm Dave Johnson	Daggett
Z5	DELTA	Karlin Sandy Loam 0-6 % Slopes	pH 5.65 P 43, K 99.5	VanDrese Farms	Gladstone

TABLE 6E. INGHAM, MONTCALM & SAGINAW COUNTY CONVENTIONAL GRAIN TRIALS - EARLY (101 Day and Earlier) ZONE 2 - 3

2013 BRAND / HYBRID	RM	TRT	TRAIT	Early - TRIAL AVERAGE				Ingham - Early				Montcalm - Early				Saginaw - Early			
				%H2O	BU/A	Twt	%SL %Sd	%H2O	BU/A	Twt	%SL %Sd	%H2O	BU/A	Twt	%SL %Sd	%H2O	BU/A	Twt	%SL %Sd
BLUE RIVER 22A10	85		Conv.	18.2	190.7	61.2	4.8	99	19.3	182.1	58.7	9.5	98	17.1	199.2	63.6	0.0	100	
BLUE RIVER 42A32	96		Conv.	19.1	204.6	59.5	14.3	97	19.7	195.9	58.7	28.6	95	18.5	213.2	60.2	0.0	100	
CB SEEDS CBX41302	90		Conv.	20.4	179.2	60.1	7.5	86	21.0	177.3	58.2	14.9	78	19.7	181.1	61.9	0.0	95	
CB SEEDS CBX52111	98		Conv.	23.4	196.5	58.6	8.7	100	23.6	184.7	57.0	17.3	99	23.2	208.2	60.2	0.0	100	
CB SEEDS CBX55291	101		Conv.	24.2	203.2	57.4	14.3	100	23.8	204.7	56.7	28.5	99	24.5	201.6	58.1	0.0	100	
GEI 101lys	104		Conv.	27.8	164.0	53.9	34.5	98	25.9	173.8	55.9	65.8	96	29.6	154.2	51.8	3.1	100	
GREAT LAKES 4918	98	P500	Conv.	20.2	217.0	57.6	23.6	100	19.6	198.7	58.5	47.2	100	20.7	235.3 *	56.6	0.0	100	
KEY 401	101		Conv.	19.6	243.1 **	59.2	3.7	92	20.7	241.6 **	58.3	7.3	83	18.5	244.6 **	60.0	0.0	100	
RUPP XR1464	90	C250	Conv.	18.5	208.3	59.0	32.9	100	18.8	190.2	59.0	65.4	100	18.1	226.4	59.0	0.3	100	
RUPP XRA98-58	98	C250	Conv.	21.2	234.4 *	58.0	22.7	98	22.1	238.2 *	57.5	45.4	96	20.3	230.5	58.4	0.0	100	
SPECTRUM 4660	96	C250	Conv.	18.4	228.8	61.1	0.6	100	18.8	228.5 *	58.8	1.1	100	18.0	229.1	63.4	0.0	100	
SPECTRUM 4832	98	C250	Conv.	20.1	237.2 *	59.3	1.9	96	21.0	237.5 *	58.2	3.7	92	19.1	236.9 *	60.3	0.0	100	
STEYER 9802	98	C250	Conv.	20.3	229.4	57.9	4.2	97	20.4	230.5 *	58.4	8.3	95	20.1	228.3	57.4	0.0	100	
STEYER 10102	101	C250	Conv.	19.7	225.3	59.6	2.3	96	20.7	218.9	58.3	4.2	92	18.7	231.7	60.8	0.3	100	
AVERAGE				20.8	211.5	58.7	12.5	97	21.1	207.3	58.0	24.8	94	20.4	215.7	59.4	0.3	100	
HIGHEST				27.8	243.1	61.2	34.5	100	25.9	241.6	59.0	65.8	100	29.6	244.6	63.6	3.1	100	
LOWEST				18.2	164.0	53.9	0.6	86	18.8	173.8	55.9	1.1	78	17.1	154.2	51.8	0.0	95	
CV (%)				4.6	6.7	1.4	129.0	7.0	3.8	8.4	1.0	92.1	10.0	5.2	4.3	1.7	299.4	2.0	
LSD (5%)				0.8	11.8	0.7	13.5	6.0	1.0	20.9	0.7	27.2	12.0	1.3	10.9	1.2	0.9	2.0	

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

TABLE 6L. INGHAM, MONTCALM & SAGINAW COUNTY CONVENTIONAL GRAIN TRIALS - LATE (102 Day and Later) ZONE 2 - 3

2013 BRAND / HYBRID	RM TRT TRAIT	Late - TRIAL AVERAGE						Ingham - Late			Montcalm - Late			Saginaw - Late		
		%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd	%H2O	BU/A	Twt	%SL	%Sd
CB SEEDS CBSK6A4433	104 Conv.	22.6	196.6	58.3	3.2	94	23.8	207.4	56.7	5.4	93	21.4	185.7	59.9	0.9	96
GREAT LAKES 5283	102 P500 Conv.	21.2	236.3 **	60.8	1.2	100	22.4	239.1 *	57.2	2.3	100	19.9	233.5 **	64.3	0.0	100
KEY 909	109 Conv.	23.8	222.8	57.8	6.2	93	25.2	239.3 *	56.2	12.4	90	22.4	206.3	59.4	0.0	95
RUPP XRA04-11	104 C250 Conv.	21.4	213.5	57.3	10.1	100	23.1	229.3 *	56.8	20.1	100	19.7	197.7	57.8	0.0	100
SPECTRUM 5250	102 C250 Conv.	22.7	227.9 *	58.6	11.3	98	23.9	239.9 *	56.7	22.0	97	21.5	215.9	60.5	0.6	99
SPECTRUM 5648	106 C250 Conv.	22.5	228.0 *	57.1	3.2	95	23.4	234.4 *	56.7	6.4	94	21.6	221.6 *	57.4	0.0	97
STEYER 10501	105 C250 Conv.	20.6	199.6	57.8	11.4	98	22.9	210.1	56.9	22.7	95	18.2	189.0	58.7	0.0	100
STEYER X31081TC	108 C250 Conv.	24.0	218.8	57.8	5.3	99	24.3	217.0	56.7	10.5	99	23.7	220.6 *	58.9	0.0	100
WELLMAN WZ408	108 Conv.	23.0	233.9 *	58.2	0.0	100	23.9	243.1 **	56.6	0.0	100	22.0	224.7 *	59.8	0.0	100
AVERAGE		22.4	219.7	58.2	5.7	97	23.6	228.8	56.7	12.7	96	21.2	210.6	59.6	0.2	98
HIGHEST		24.0	236.3	60.8	11.4	100	25.2	243.1	57.2	25.4	100	23.7	233.5	64.3	0.9	100
LOWEST		20.6	196.6	57.1	0.0	93	22.4	207.4	56.2	0.0	90	18.2	185.7	57.4	0.0	95
CV (%)		5.0	6.5	2.6	136.3	3.0	3.2	7.3	0.6	89.8	3.0	6.6	5.5	3.5	290.3	2.0
LSD (5%)		0.9	12.0	1.3	6.5	2.0	0.9	20.2	0.4	13.7	4.0	1.7	14.0	2.5	0.5	2.0

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

HYBRID INDEX FOR GRAIN TRIALS

ZONE 1 Tables 1E/1L Branch Cass Trial Average		ZONE 2 Tables 2E/2L Allegan Ingham Saginaw Trial Average		ZONE 3 Tables 3E/3L Huron Mason Montcalm Trial Average		ZONE 4 Table 4 Iosco Menominee - Late Trial Average		ZONE 5 Table 5 Delta Menominee - Early Trial Average		CONVENTIONAL TRIAL Tables 6E/6L Ingham - Zone 2 Montcalm - Zone 3 Saginaw - Zone 2 Trial Average	
BRAND / HYBRID	RM	TABLE	BRAND / HYBRID	RM	TABLE	BRAND / HYBRID	RM	TABLE	BRAND / HYBRID	RM	TABLE
AGRICOLD			DAIRYLAND SEED			GOLDEN HARVEST					
A6252STXRIB	100	2E	DS-9487RA	87	3E,4	G88M78-3110A				88	3E
A6257STXRIB	100	2E	DS-9791RA	91	3E	~G92T43-3111				92	3E
A6267STX	102	2L	DS-9694SSX	94	3E	G97S12-3000GT				97	3E
A6319VT3PRIB	103	2L	DS-9898RA	98	2E,3L	G99Z33-3011A				99	2E
~A6358VT3Pro	105	1E	DS-9501SSX	101	1E,2E,3L	~G01P52-3011A				101	2E
A6389VT3PRIB	106	1E	DS-9604SSX	104	1E,2L,3L	G01U28-3111				101	2E
~A6408VT3PRIB	107	1E	~Hi DF-3702-9	104	1E,2L,3L	~G05T82-3122				105	2L
~A6472VT3Pro	110	1L	DS-9306	106	1E	G07V88-3000GT				107	1E
			DS-9809RA	109	1L	G07F23-3111				107	1E
AgVenture/VPMAXX			DS-9210SSX	110	1L	~G09E98-3000GT				109	1L
RL5811HBW	102	1E,2L,3L	DS-9610	110	1L						
BECK			DEKALB			GREAT LAKES					
4321HXR™*	99	1E	DKC38-04 GENSSRIB	88	3E,5	3591RR				85	5
5131AM™*	105	1E	DKC41-32 GENSSRIB	91	3E	3827VT3PRIB				88	5
5140HR™*	105	1E	DKC43-10 GENVT2PRIB	93	3E	4006VT2RIB				90	5
5475AM™*	108	1L	DKC46-20 GENVT3PRIB	96	2E,3E	~4282VT3PRIB				92	5
5828AM™*	110	1L	DKC48-12 GENSSRIB	98	2E,3L	4206STXRIB				92	3E
			DKC49-29 GENSSRIB	99	2E,3L	~4457VT3PRIB				94	3E
BLUE RIVER			DKC50-83 GENVT3PRIB	100	2E,3L	4567VT3PRIB				95	3E
22A10	85	6E	DKC52-04 GENVT3PRIB	102	1E,2L,3L	~4879STXRIB				98	2E,3L
42A32	96	6E	DKC52-61 GENVT2PRIB	102	1E,2L,3L	4918				98	6E
			DKC53-56 GENSSRIB	103	1E,2L	~5015STXRIB				100	2E,3L
CB SEEDS			DKC53-78 GENSSRIB	103	1E,2L	~5283STXRIB				102	1E,2L,3L
CBX41302	90	6E	DKC54-38 GENSSRIB	104	1E,2L	5283				102	6L
CBX52111	98	6E	DKC55-09 GENSSRIB	105	1E	~5368VT3PRIB				103	1E,2L
CBX55291	101	6E	DKC57-75 GENSSRIB	107	1E	5525VT3PRO				105	1E,2L
CBSK6A4433	104	6L	DKC58-87 GENSSRIB	108	1L	~5785VT3PRIB				107	1E,2L
			DKC60-67 GENSSRIB	110	1L	~5939VT3PRIB				109	1L
CHANNEL			DKC61-16 GENSSRIB	111	1L	6087VT3PRIB				110	1L
192-09VT3PRIB	92	3E,5	DKC61-88 GENVT3PRIB	111	1L						
197-33STXRIB	97	2E,3E	DKC62-08 GENSSRIB	112	1L	HYLAND SEEDS					
197-68STXRIB	97	2E,3E				8201RA				84	5
199-54VT2PRIB	99	1E,2E,3L	DYNAGRO			8202RA				85	5
203-44STXRIB	103	1E,2L	D29SS30	90	3E,5	8295RA				88	5
202-32STXRIB	104	1E	~D31VP31	91	3E,5	8300RA				91	3E
206-78STXRIB	106	1E	D34VP52	94	2E,3E	8315RA				92	3E
~207-13VT3PRIB	107	1E	D35VP40	95	2E,3E	4398				96	2E,3E
211-99VT3PRIB	111	1L	~D38SS50	97	2E,3E	HLCVR68				98	2E,3L
			D39VP14	99	2E,3L	8450RA				98	2E,3L
CROPLAN			D41SS71	101	2E,3L	8505RA				101	2E,3L
2845SS/RIB	92	3E	D42SS42	102	1E,2L,3L	8515RA				101	2E,3L
3055VT2P	92	3E	D46SS46	106	1E,2L	8552RA				103	2L
3399SS	93	3E	D47SS23	107	1E,2L	8521RA				104	1E,2L,3L
3899VT2P/RIB	96	2E,3E	D52SS91	112	1L	~8575RA				104	1E,2L
3733VT2P/RIB	97	2E,3E				8598RA				106	1E,2L
3737SS	97	3E	GEI			8636RA				107	1E,2L
3913AS4111	99	2E,3L	~GEI 101lys	101	6E	~4687				110	1L,2L
4099SS/RIB	99	2E,3L				~8695RA				110	1L
~4199SS	101	2E,3L				KEY					
~4975VT3P	102	2L,3L				401				101	6E
5398VT3P	103	2L,3L				909				109	6L

BRAND / HYBRID	RM	TABLE	BRAND / HYBRID	RM	TABLE	BRAND / HYBRID	RM	TABLE
LEGACY SEEDS			PIIONEER			SELECT		
L-3043 VT2PRO	92	3E	P9329YHR	93	3E,5	4277SM	104	1E
L-3712 VT3PRO	96	2E,3E	~ P9675AMXT	96	2E,3E	4314AQ	105	1E
L-3813 GENSS	96	2E,3E	P9690AM	96	2E,3E	4633VP	107	1E
L-4113 GENSS	100	2E,3L	~ P9754YHR	97	2E,3E			
L-4343 VT3PRO	101	2E,3L	P0094AMX	100	2E,3L	SPECIALTY		
L-4513 GENSS	102	2L,3L	~ P0210YXR	102	1E,2L,3L	25A113	95	2E
L-5522 VT3PRO	104	2L	~ P0216AM	102	1E,2L,3L	42R32GENVT3P	96	2E
L-5943 GENSS	106	2L	~ P0255AMXT	102	1E,2L,3L	82R08GENSS	97	2E
			P0496AMX	104	1E,2L	29A263	99	2E
LEGEND			P0604YHR	106	1E,2L	32V323	102	1E,2L
LR9386 VT2P	86	5	P0858AMX	108	1L,2L	33A403	103	1E,2L
LR9495 VT3P	95	3E	~ P0993HR	109	1L,2L,3L	~ 34A413	104	1E,2L
LR9497 GENSS	97	2E,3E	~ P0945YXR	109	1L,2L	~ 43R83GENVT3P	105	1E,2L
LR9308 GENSSRIB	108	1E	~ P0970AMX	109	1L,2L	38A573	108	1L
LEMKE			RENK			SPECTRUM		
4048 VIP3111	100	1E,2L,3L	~ RK492SSTX	92	4	4660	96	6E
			RK522SSTX	94	4	4832	98	6E
MYCOGEN			RK568VT3P	95	3E	5250	102	6L
2G192	85	5	RK557SSTX	95	3E	~ 5648	106	6L
2J238	86	5	RK581SSTX	100	3L			
2Y479	98	2E,3L	RK598SSTX	100	3L	STEYER		
2A509	101	2E,3L	~ RK629VT3P	102	2L,3L	9203 VT2PRORIBC	92	2E,3E
2C674	108	1L	RK666SSTX	102	2L,3L	9503 VIP3111	95	2E,3E
2V709	110	1L	RK699SSTX	105	2L	9603 VT2PRORIBC	96	2E,3E
			RK752SSTX	105	1E,2L	9801 VIP3111	98	2E,3L
NK Brand			RK776VT3P	108	1L	9802	98	6E
N23M-3110A	88	3E	RK791SSTX	108	1L	10004 GENSSRIBC	100	1E,2E,3L
~ N29T-3111 Brand	92	3E	RK866SSTX	111	1L	10102 GENSSRIBC	101	1E,2E,3L
N37S-3000GT	97	3E	RK860VT3P	111	1L	10102	101	6E
N42Z-3011A	99	2E	RK880SSTX	112	1L	10403 VT2PRORIBC	104	1E,2L
N46U-3111	101	2E				10501	105	6L
~ N45P-3011A	101	2E	RUPP			10603 GENSSRIBC	106	1E
~ N53W-3122	105	2L	XRD90-64	90	2E,3E	10803 GENSSRIBC	108	1L
N61P-3000GT	107	1E	XR1464	90	6E	X31081TC	108	6L
N60F-3111	107	1E	XRT94-06	94	2E,3E	11004 GENSSRIBC	110	1L
~ N63R-3000GT	109	1L	XRD97-56	97	3E			
			XRJ97-17	97	2E,3E	UNITY SEEDS		
NuTech			XRJ98-11	98	2E	7700 3000gt	100	2E
5B-888™	88	5	XRA98-58	98	6E	4602 VT3P	102	2L
~ 5B-290™	90	5	XRD00-27	100	2E	7603 3000GT	103	2L
~ 5N-197™	97	3E	XRJ03-31	103	2L	7505 3122	105	2L
5N-9802™	98	3L	XRD04-04	104	1E,2L	7606 3000GT	106	2L
~ 5N-803™	101	2E,3L	XRA04-11	104	6L	5507 SS-RIB	107	2L
~ 5N-001™	101	2E,3L	XR8034	105	1E			
			XRD07-19	107	1E	WELLMAN		
NuTech/G2 GENETICS			XRJ07-20	107	1E	W2401DP	101	1E
~ 5X-890™	90	5	XRT09-22	109	1L	W2404DP	104	1E
5Z-091™	91	5	XRJ10-91	110	1L	W2307DP	107	1E
5X-193™	93	5				W2408	108	6L
5X-894™	94	3E	SEED CONSULTANTS			W2409S	109	1L
5X-795™	94	4	SCS 924YHR™	92	2E	W2310DP	110	1L
5Z-9605™	96	3E	SCS 10HQ02™	100	2E			
~ 3F-198™	98	2E,3L	SCS 1032AM1™	101	1E,2E			
5X-698™	98	3L	SCS 10HR43™	104	1E,2L			
~ 5H-399™	99	2E,3L	SCS 1062AHQ™	106	1E,2L			
5Z-200™	100	2E,3L	~ SCS 10HR62™	106	1E,2L			
5Z-0105™	101	3L	SCS 10HQ72™	107	1E,2L			
~ 5H-502™	102	2L,3L	SCS 10RR70™	108	1L,2L			
~ 5H-202™	102	2L,3L	SCS 1074AM-R™	108	1L,2L			
~ 3D-802™	102	2L,3L	SCS 1093AAHQ™	109	1L,2L			
5H-905™	105	1E,2L	SCS 10HR94™	109	1L,2L			
5H-805™	105	1E,2L	SCS 11HR02™	110	1L			
~ 5H-806™	106	1E,2L	SC 11AQ03™	110	1L			
5H-707™	107	1E	SCS 1114AM-R™	111	1L			
5F-008™	108	1L	~ SCS 11HR21™	113	1L			
5Z-709™	109	1L	~ SCS 1133AM-R™	113	1L			
~ 5Z-109™	109	1L						

~ Denotes hybrids that were entered into the Grain and Silage Trials.

2013 SILAGE PERFORMANCE TRIALS

Introduction

The silage index (pg.31) contains a list of all hybrids planted in the 2013 silage trials.

County results are reported in the following tables:

Tables 7E/7L Zone 1 - Branch, Lenawee and Wood (OH)

Tables 8E/8L Zone 2/3 - Allegan (dropped 2013), Huron (Zone 3) and Ingham

Table 9 Zone 4 - Iosco, Menominee (Late), and Osceola

Table 10 Zone 5 - Alger, Delta and Menominee (Early)

The map of Michigan (page 29 shows each zone and the locations where the trials were located.

Methods

Testing procedures (randomization, replication, planting rates, etc.) for silage evaluation are the same as those utilized for the grain trials. For silage agronomic information refer to Table C (pg. 30)

Zones 1 and zone 2/3 were divided into two maturity groups (designated early and late) on the basis of the relative maturity (RM) submitted by the companies with results listed in separate tables. Zones 1 and zone 2/3 have two maturity groups "E" or "L" based on company RM. In cooperation with The Ohio State University, the Wood County, OH location is planted and managed by OSU while MSU handles harvest, plus quality and data analysis.

Silage plots were harvested with a two-row self-propelled forage harvester. Electronic scales mounted on the chopper measured plot weights. Total plot weight was applied to calculate green tons per acre (**GT/A**). Sub samples of fodder including grain were collected, weighed, oven dried until weight loss was zero, then weighed again to determine the percent dry matter (**%DM**). Dry tons per acre (**DT/A**) is calculated mathematically by multiplying **GT/A** by **%DM**. The samples were ground using a 1.0 mm screen before conducting quality analysis using Near Infrared Reflectance (NIR) to predict quality components.

Silage Analysis

Tables 7E, 7L, 8E, 8L, 9 and 10 provide silage quality data as determined by NIR analysis on freshly dried & ground samples. Data is provided for individual locations and also averaged over multiple locations. Near infrared spectral analysis involves irradiating the sample with light in the near infrared spectrum (1,100 to 2,500 nm). The illuminated sample absorbs light proportional to specific chemical and physical properties. The reflected energy is measured and was correlated statistically with the updated 2013 Near-infrared Spectroscopy (NIRS), equation established for silage quality levels. Results of the five quality traits analyzed are presented in the quality tables. The six quality traits are:

1. **IVD=(in vitro) digestible dry matter-48hr.** IVD is a measure of forage digestibility. Higher IVD is desirable.
2. **ADF=acid detergent fiber.** ADF represents the less digestible portion of the corn forage, containing cellulose, lignin, and heat damaged protein. ADF is closely related to the digestibility of forages. Lower ADF implies the forage is more digestible. More mature plant material will contain higher ADF concentrations. A low concentration of ADF is desirable.
3. **NDF=neutral detergent fiber.** NDF is a measure of the fiber content of the corn forage. It is less digestible than non-fiber constituents of the forage. Forages with high NDF levels have lower energy. NDF is also a measure of potential forage intake. High NDF levels decrease the potential forage intake. Low NDF content is desirable.
4. **NDFD=neutral detergent fiber digestibility-48hr.** NDFD is the portion of neutral detergent fiber digested by animals at a specified level of feed intake. High NDFD is desirable.
5. **CP=crude protein.** Forages are generally supplemented with high protein concentrates such as soybean meal to increase the protein content of ruminant diets. Corn hybrids with high protein levels require less supplementation and therefore result in lower feed costs. High protein content is desirable.
6. **STRCH=starch.** Starch from the grain, along with the digestible component of the fiber, accounts for the majority of the energy in corn silage.

Silage quality traits are reported on a dry matter basis (100 percent DM). Quality traits in these tables are intended for use in hybrid selection only. Analysis for the balancing of feed rations should be analyzed from hybrids grown on each individual farm.

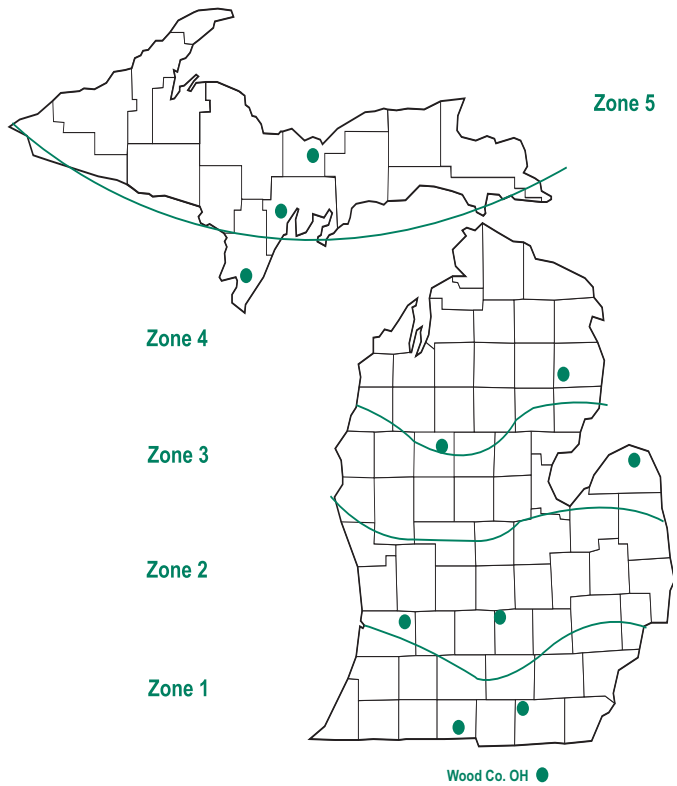


2013 Silage Trial Locations

MILK2006

An updated calculation using the MILK2006 equation (UW-Madison Dairy Science Department) was used to estimate MK/T (milk per ton) and MK/A (milk per acre). MILK2006 estimates the dry matter intake using the NDF and CWD (cell wall digestibility) parameters of the sample. The updated equation utilizes CP, fat, and sugar as well as the organic acid fractions along with their total-tract digestibility coefficients to estimate energy. Whole plant dry matter was calculated to 34% for all hybrids and digestibility coefficients used for the fat and sugars as well as the organic acid fractions were held constant. MILK2006 also assumes the weight of the cow is 1,350 lbs. and that it consumes a 30 percent NDF diet. Using National Research Council (NRC, 2001) energy requirements, the estimated intake of energy from corn silage is converted to milk per ton. Milk per acre is then calculated using the estimated values for milk per ton and dry matter yield per acre. For more information on the utility of MILK2006 please see:

www.uwex.edu/ces/crops/uwforage/Milk2006silage.html



Notes

TABLE C.

AGRONOMIC TABLE FOR SILAGE TRIAL LOCATIONS

	COUNTY	PLANTING DATES	HARVEST DATES	PREVIOUS CROP	100 % STAND	AVERAGE STAND	FERTILIZER N - P - K
Zone 1	BRANCH	May 9	Sept 12	Corn	35,244	33,834	201 - 9 - 3
	LENAWEE	May 7	Sept 13	Soybeans	35,244	34,891	127 - 9 - 3 + manure
	WOOD (OHIO)	May 6	Sept 4	Soybeans	36,300	35,574	210 - 40 - 40
Zone 2	ALLEGAN	May 13	-----	-----	-----	-----	Dropped
	INGHAM	May 19	Sep 23 & 24	Soybeans	35,244	34,891	155 - 9 - 3
	HURON	May 16	Sep 18	Corn	35,244	34,891	120 - 9 - 3
Zone 4	IOSCO	May 28	Oct 17	Corn	35,244	33,834	170 - 9 - 3
	OSCEOLA	May 15	Oct 8	Corn	35,244	34,186	170 - 9 - 3 + manure
	MENOMINEE	May 29	Sep 10	Corn	35,244	34,186	119 - 9 - 3 + manure
Z5	ALGER	May 29	Sep 9 & 11	Peas/Oats	35,244	33,129	119 - 9 - 3
	DELTA	May 30	Sep 9	Sod	35,244	34,186	119 - 9 - 3

	COUNTY	SOIL TYPE	SOIL TEST	FARM COOPERATOR	LOCATION
Zone 1	BRANCH	Fox Sandy Loam 0-2% Slopes	pH 5.9 P 43, K 100.5	Kyle Huff	Coldwater
	LENAWEE	Blount Loam 0-7% Slopes	pH 7.1 P 140 K 300	Bakerland Farms Blaine Baker	Clayton
	WOOD (OHIO)	Hoytville Clay loam	pH 5.8 P 114, K 435	OARDC Matt Davis	Hoytville, Ohio
Zone 2	ALLEGAN	Chelsea Loamy Fine Sands 0-6% Slopes	pH 6.5 P 71, K 275	Lettinga Farms Paul Lettinga	Wayland
	INGHAM	Early: Colwood-Brookston Late: Capac Loam	pH7, P44, K217 pH6, P55, K197	Crop & Soil Sciences Research Facility, MSU	East Lansing
	HURON	Kilmanagh Loam	pH 6.7 P 119, K 241	Wil-Le Farms Ron & Ed McCrea	Bad Axe
Zone 4	IOSCO	Kawkawlin Sandy Loam 0-4% Slopes	pH 7 P 48, K 172	Jeremy Beebe	Whittemore
	OSCEOLA	Isabella Sandy Loam 0-6% Slopes	pH 6.2 P 146, K 211	Robert E. Lee	Marion
	MENOMINEE	Onaway Fine Sandy Loam 3-9% Slopes	pH 7.4 P 14, K 75.5	Johnson Dairy Farm Dave Johnson	Daggett
Zone 5	ALGER	Eben Very Cobbly Sandy Loam 1-6% Slopes	pH 7.4 P 63.5, K 86.5	AgBio Research Station Chris Kapp	Chatham
	DELTA	Karlin Sandy Loam 0-6% Slopes	pH 5.65 P 43, K 99.5	VanDrese Farms	Gladstone

SILAGE HYBRID INDEX

ZONE 1 - Tables 7E/7L

Branch
Wood (Ohio)
Trial Average

BRAND / HYBRID	RM	TABLE
AGRIGOLD		
~ A6358VT3Pro	105	8L
~ A6408VT3PRIB	107	8L
~ A6472VT3Pro	110	7E
A6517VT3PRIB	113	7L
CHANNEL		
202-64STXRIB	102	8E
~ 207-13VT3PRIB	107	8L
210-95STXRIB	110	7E
214-14VT3PRIB	114	7L
CROPLAN		
~ 4199SS	101	8E
~ 4975VT3P	102	8E
4819AS3000/GT	103	8E
5415SS/RIB	104	8E
5887VT3P	107	8L
DAIRYLAND SEED		
Hi DF-3290-9	90	9
Hi DF-3396SSX	96	8E,9
Hi DF-3197-7	97	8E,9
~ Hi DF-3702-9	104	8E,9
Hi DF-3108RA	108	7E,8L
DS-9311SSX	110	7E,8L
Hi DF-3510SSX	110	7E,L
DS-9614Q	111	7L
DOEBLERS®		
554GRQ	105	7E
RPM® 604HRQ™	108	7E
RPM® 647AM1™	110	7E
RPM® 657AM™	112	7L
RPM® 689AMXT™	113	7L
698GRQ	114	7L
RPM® 743HXR™	116	7L
DYNAGRO		
~ D31VP31	91	9
~ D38SS50	97	8E
D45Q50	105	8L
D50SS43	110	7E,8L
GEI		
~ 101lys	101	9,10
GOLDEN HARVEST		
~ G92T43-3111	92	9
~ G01P52-3011A	101	9
~ G05T82-3122	105	8L
G08X83-3110	108	8L
~ G09E98-3000GT	109	8L
G11U58-3122	111	7L
G12J11-3011A	112	7L

ZONE 2 - Tables 8E/8L

Allegran
Huron - Zone 3
Ingham
Trial Average

BRAND / HYBRID	RM	TABLE
GREAT LAKES		
~ 4282VT3PRIB	92	10
~ 4457VT3PRIB	94	10
~ 4879STXRIB	98	9,10
~ 5015STXRIB	100	8E,9,10
~ 5283STXRIB	102	8E,9
~ 5368VT3PRIB	103	8E,9
~ 5785VT3PRIB	107	7E,8L
~ 5939VT3PRIB	109	7E
6232VT3PRIB	112	7L
6354VT3PRIB	113	7L
GREAT LAKES		
HLSR35	98	9
HLS8477	98	9
HLSR59	102	8E
~ 8575RA	104	8E
~ 4687	110	7E,8L
~ 8695RA	110	7E,8L
LEGACY SEEDS		
L-5350 3000GT	104	8E
L-5810 3000GT	106	8L
L-7253 3000GT	112	8L
MASTERS CHOICE		
MC-4880	98	8E
MC-5370	103	8E
MCT-5663	106	8L
MC-6060	110	7E
MCT-6153	111	7L
MYCOGEN		
TMF2Q308	91	10
TMF2L418	94	9
TMF2Q413	96	9,10
TMF2L538	101	8E
TMF2R720	109	7E
TMF2H747	113	7L
NK Brand		
~ N29T-3111 Brand	92	9
~ N45P-3011A	101	9
~ N53W-3122	105	8L
N61X-3110	108	8L
~ N63R-3000GT	109	8L
N68B-3122	111	7L
N70J-3011A	112	7L
NuTech		
~ 5B-290™	90	10
3A-496™	96	9,10
~ 5N-197™	97	9
~ 5N-803™	101	9
~ 5N-001™	101	9
5N-406™	106	8L
3A-306™	106	8L

ZONE 4 - Table 9

Iosco
Menominee - Late
Osceola
Trial Average

BRAND / HYBRID	RM	TABLE
NuTech/G2 GENETICS		
~ 5X-890™	90	10
~ 3F-198™	98	10
~ 5H-399™	99	10
~ 5H-502™	102	9
~ 5H-202™	102	9
~ 3D-802™	102	9
~ 5H-806™	106	8L
3D-909™	109	8L
~ 5Z-109™	109	8L
5F-811™	111	7L
5Z-612™	112	7L
5Z-113™	113	7L
3F-513™	115	7L
3F-515™	115	7L
5H-216™	116	7L
PIONEER		
~ P9675AMXT	96	9,10
~ P9754YHR	97	9,10
~ P0210YXR	102	7E,8E,9
~ P0216AM	102	7E,8E,9
~ P0255AMXT	102	8E,9
~ P0993HR	109	7E,8L
~ P0945YXR	109	7E,8L
~ P0970AMX	109	7E,8L
RENK		
RK302GTCBLLBL	88	9
~ RK492SSTX	92	9
RK565GTCBLLRWBL	99	8E,9
~ RK629VT3P	102	8E
RK858VT3P	112	8L
SEED CONSULTANTS		
~ SCS 10HR62™	106	7E
SCS 11HR12™	112	7L
~ SCS 11HR21™	113	7L
~ SCS 1133AM-R™	113	7L
SCS 1131AM-R™	114	7L
SCS 11HQ39™	114	7L
SCS 1154AM-R™	116	7L
SPECIALTY		
~ 34A413	104	8E
83R90GENSS	105	8L
~ 43R83GENVT3P	105	8L
46R02GENVT3P	109	8L
SPECTRUM		
4130	90	9,10
5045	100	8E
~ 5648	106	7E
T. A. SEEDS		
TA583-28	108	7E
TA615-16ND	110	7E
TA657-13VP	111	7L
TA683-13VP	112	7L
TA765-30	115	7L

ZONE 5 - Table 10

Alger
Delta
Menominee - Early
Trial Average

~ Denotes hybrids that were entered into the Grain and Silage Trials.

TABLE 7E. BRANCH, LENAWE & WOOD (OHIO) COUNTY SILAGE TRIALS - EARLY (110 Day and Earlier) ZONE 1

		Early - TRIAL AVERAGE										Branch - Early														
2013		YIELD					% QUALITY					YIELD					% QUALITY									
BRAND /HYBRID	TRT	TRAIT	%DM	G/T/A	DT/A	%STD	IVD	ADF	NDF	INDFD	CP	STR	MK/T	MK/A	%DM	G/T/A	DT/A	%STD	IVD	ADF	NDF	INDFD	CP	STR	MK/T	MK/A
AGRIGOLD A6472VT3P10	P500	1,2,3	41.1	25.0	10.2	99	83.0	17.5	34.2	50.5	8.1	43.4	3390	34673	39.4	23.1	9.0	97	84.3	16.2	33.1	52.6	8.2	43.2	3489	31401
CHANNEL 210-955TXRIB	PV500	1,2,3,4,6	41.8	24.7	10.3	100	83.7	15.8	32.9	50.5	8.1	43.1	3444	35473	39.3	23.4	9.2	100	84.0	16.1	33.7	52.5	7.9	41.7	3467	31808
DAIRYLAND SEED DS-9311SSX	C250	1,2,3,4,6	37.5	25.3	9.4	100	81.5	19.5	36.4	49.1	8.3	39.9	3281	31186	37.9	24.2	9.2	99	83.0	17.7	35.8	52.5	8.4	40.5	3387	32134
DAIRYLAND SEED HI DF-3108RA	C250	1,2,3,4,6	36.6	28.3	10.3	99	80.5	21.3	39.5	50.9	7.8	36.1	3171	32429	37.0	27.9	10.3*	97	83.1	18.4	36.5	53.7	7.6	40.5	3392	33047
DAIRYLAND SEED HI DF-3510SSX	C250	1,2,3,4,6	33.9	30.9	10.4	99	80.1	22.3	41.0	51.5	7.5	36.3	3160	33072	33.2	29.0	9.7*	99	82.4	19.8	38.1	53.9	7.5	38.7	3338	32190
DOEBLERS® 554GRQ	C250	1,2,3,4	41.4	23.9	9.9	94	82.1	18.9	35.6	49.8	7.8	39.4	3318	32794	38.9	24.4	9.7*	91	83.5	16.6	34.1	51.7	8.0	41.0	3436	33311
DOEBLERS® RPM® 604HRQ™	C250	1,2,3,4	40.2	25.5	10.1	96	81.4	19.7	37.3	50.2	8.2	38.9	3294	33333	39.3	25.4	10.0*	89	83.7	18.0	36.3	55.0	8.7	40.5	3420	34080
DOEBLERS® RPM® 647AMI™	C250	1,2,3,4	37.6	27.1	10.1	99	82.5	18.6	35.6	50.7	8.3	40.6	3327	33890	37.2	26.4	9.8*	96	83.3	17.5	35.6	53.2	8.3	40.4	3410	33488
DYNAGRO D50SS43	P500	1,2,3	40.4	28.1	11.2**	99	81.0	19.0	37.6	49.5	8.0	38.6	3231	36114	41.2	25.4	10.5**	97	83.7	16.6	34.2	52.4	7.9	42.0	3447	36007
GREAT LAKES 5785VT3PRIB	P500	1,2,3	44.3	24.2	10.5	97	82.0	19.2	36.3	50.2	7.1	42.3	3303	34632	41.5	25.8	10.4*	95	83.0	18.4	36.1	52.8	7.8	42.0	3385	35096
GREAT LAKES 5939VT3PRIB	P500	1,2,3	37.3	26.5	9.8	100	81.5	20.9	38.0	51.3	7.9	39.5	3227	31974	35.7	24.8	8.8	99	83.1	17.9	35.6	52.4	8.1	40.6	3395	29976
HYLAND SEEDS 4687	P250	1,2,3,4	40.8	24.6	10.0	100	82.6	18.5	35.9	51.6	7.8	41.1	3345	33341	40.2	23.7	9.5	99	83.9	16.5	33.5	52.1	8.0	40.9	3444	32688
HYLAND SEEDS 8695RA	P250	1,2,3,4,6	39.2	25.8	10.0	100	83.3	17.5	34.0	50.9	7.9	42.6	3405	34041	38.2	24.2	9.3	100	84.4	16.7	34.1	54.2	7.6	42.9	3487	32346
MASTERS CHOICE MC-6060	C250	Conv.	40.4	23.8	9.6	97	80.6	19.6	37.0	47.7	8.2	39.6	3221	30819	38.8	23.9	9.3	92	83.0	16.9	34.5	50.5	8.2	43.1	3398	31524
MYCOGEN TMF2R720	C250	1,2,3,4,6	36.6	29.0	10.6	100	80.3	21.0	40.1	51.0	7.8	35.3	3173	33373	37.2	27.8	10.4*	99	83.5	17.0	35.7	53.8	7.8	40.6	3421	35437
PIONEER P0210YXR	C250	1,2,3,4,6	40.9	24.8	10.1	98	83.2	18.2	34.8	51.7	8.1	41.7	3394	34240	38.5	25.3	9.7*	96	84.5	16.7	33.7	53.8	7.9	42.1	3495	33939
PIONEER P0216AM	P1250	1,2,4,6	38.8	25.8	9.9	99	82.9	18.7	35.5	51.9	8.1	39.9	3369	33282	38.5	23.1	9.1	99	84.4	16.9	33.6	53.7	7.9	41.7	3493	31783
PIONEER P0945YXR	C250	1,2,3,4,6	39.0	26.9	10.4	100	82.5	18.7	35.6	50.9	8.3	42.1	3345	35195	38.7	25.5	9.8*	100	83.6	17.7	35.4	53.5	8.7	41.5	3423	35237
PIONEER P0970AMX	C250	1,2,3,4,6	37.5	27.5	10.3	99	82.5	19.3	36.5	52.1	8.0	39.0	3339	34419	37.8	25.7	9.7*	98	83.7	17.3	35.0	53.5	7.8	40.6	3439	33250
PIONEER P0993HR	P1250	1,2,4,6	38.7	26.8	10.3	97	83.9	18.2	34.5	53.3	8.1	42.0	3439	35400	37.6	24.2	9.1	92	85.4	17.1	32.9	55.8	8.2	42.7	3558	32392
SPECTRUM 5648	C250	Conv.	39.4	24.3	9.5	90	82.0	19.5	36.4	50.6	7.8	38.4	3338	31874	37.3	23.8	8.9	83	82.6	19.0	37.2	53.3	7.6	36.9	3355	29732
T. A. SEEDS TAS83-28	C250	1,2,3,4	41.3	26.5	10.9*	100	82.8	17.8	35.4	51.2	8.1	41.2	3347	36456	40.5	25.7	10.4*	100	84.2	15.9	32.8	51.7	7.9	44.0	3486	36218
AVERAGE			39.3	26.2	10.2	98.3	82.1	19.1	36.4	50.8	8.0	40.0	3312	33728	38.4	25.0	9.6	96.2	83.6	17.4	34.9	53.1	8.0	41.2	3433	32831
HIGHEST			44.3	30.9	11.2	100.0	83.9	22.3	41.0	53.3	8.3	43.4	3444	36456	41.5	29.0	10.5	100.0	85.4	19.8	38.1	55.8	8.8	44.0	3558	36218
LOWEST			33.9	23.8	9.4	90.0	80.1	15.8	32.9	47.7	7.1	35.3	3160	30819	33.2	21.3	8.3	82.9	82.4	15.9	32.8	50.5	7.5	36.9	3338	28032
CV (%)			5.4	6.6	6.5	2.6	1.9	7.9	7.5	4.4	8.1	7.8	3	8	4.7	5.9	6.7	4.0	1.4	6.4	5.7	2.8	4.3	5.9	2	7
LSD (5%)			1.4	1.2	0.5	1.7	1.1	1.0	1.8	1.5	0.4	2.1	73	1795	2.1	1.7	0.8	4.5	1.4	1.3	2.4	2.5	0.4	4.1	98	2566

		Early - TRIAL AVERAGE										Branch - Early														
2 Year Averages 2013 - 2012		YIELD					% QUALITY					YIELD					% QUALITY									
BRAND /HYBRID	TRT	TRAIT	%DM	G/T/A	DT/A	%STD	IVD	ADF	NDF	INDFD	CP	STR	MK/T	MK/A	%DM	G/T/A	DT/A	%STD	IVD	ADF	NDF	INDFD	CP	STR	MK/T	MK/A
PIONEER P0993HR	P1250	1,2,4,6	38.8	22.4	8.7	96	84.8	17.3	34.1	55.6	8.0	39.5	3431	29943	39.3	22.1	8.6	96	86.0	15.7	31.8	56.0	8.0	43.3	3583	30965

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

2013		Lenawee - Early										Wood - Early															
BRAND / HYBRID	RM	TRT	TRAIT	YIELD					% QUALITY					YIELD					% QUALITY								
				%DM	G/T/A	D/T/A	%STD	IVD	ADF	NDF	INDFD	CP	STR	MK/T	MK/A	%DM	G/T/A	D/T/A	%STD	IVD	ADF	NDF	INDFD	CP	STR	MK/T	MK/A
AGRIOLD A6472VT3P10	110	P500	1,2,3	40.6	29.9	12.2*	100	83.0	17.0	33.0	48.4	8.3	44.8	3387	41163	43.4	22.2	9.6*	99	81.8	19.3	36.6	50.3	7.8	42.1	3294	31455
CHANNEL 210-955TXRIB	110	PV500	1,2,3,4,6	40.7	28.6	11.6	100	84.3	13.7	30.5	48.3	8.5	45.0	3484	40547	45.5	22.2	10.1*	100	83.0	17.5	34.5	50.6	8.1	42.7	3382	34065
DAIRYLAND SEED DS-9311SSX	110	C250	1,2,3,4,6	35.0	31.5	11.0	100	80.5	20.4	34.3	43.2	8.4	40.7	3225	35392	39.7	20.4	8.1	100	81.2	20.5	39.0	51.7	8.2	38.6	3231	26030
DAIRYLAND SEED HI DF-3108RA	108	C250	1,2,3,4,6	34.7	31.9	11.1	100	80.4	21.7	38.6	49.2	8.1	35.8	3108	35236	38.2	25.2	9.6*	100	78.1	23.9	43.6	49.8	7.7	32.2	3012	29003
DAIRYLAND SEED HI DF-3510SSX	110	C250	1,2,3,4,6	32.0	36.5	11.6	100	80.0	22.0	40.0	49.9	7.7	36.2	3144	36485	36.6	27.2	10.0*	99	71.8	25.2	45.0	50.7	7.3	34.0	2998	30543
DOEBLERS® 554GRQ	105	C250	1,2,3,4	39.7	25.7	10.2	97	80.6	22.2	38.3	49.1	7.6	36.2	3196	32590	45.7	21.5	9.8*	95	82.3	18.0	34.5	48.7	7.7	40.9	3323	32481
DOEBLERS® RPM® 604HRQ™	108	C250	1,2,3,4	37.3	30.8	11.5	100	80.7	20.5	37.7	48.8	8.1	37.5	3205	36790	43.9	20.3	8.9	99	80.0	20.5	37.8	47.0	7.7	38.6	3257	29130
DOEBLERS® RPM® 647AMI™	110	C250	1,2,3,4	35.5	32.6	11.6	100	82.8	18.4	33.7	48.7	8.7	42.3	3317	39146	40.1	22.3	8.9	100	81.3	19.9	37.6	50.2	8.0	39.2	3254	29037
DYNAGRO D50SS43	110	P500	1,2,3	36.3	35.8	13.0**	99	80.0	19.4	39.1	49.0	8.0	37.1	3153	40997	43.7	23.2	10.1*	100	79.2	21.2	39.3	47.0	8.0	36.6	3095	31339
GREAT LAKES 5785VT3PRIB	107	P500	1,2,3	43.6	26.1	11.2	99	81.8	18.9	34.8	47.6	5.6	43.6	3281	36830	47.9	20.6	9.9*	98	81.2	20.3	37.8	50.1	7.9	41.2	3244	31969
GREAT LAKES 5939VT3PRIB	109	P500	1,2,3	34.5	31.6	10.9	100	79.5	24.2	39.8	48.5	8.0	37.2	3006	34114	41.7	23.0	9.7*	100	81.9	20.7	38.5	53.0	7.7	40.8	3279	31831
HYLAND SEEDS 4687	110	P250	1,2,3,4	38.3	28.8	11.0	100	82.8	18.1	34.7	50.4	7.8	42.9	3359	36890	43.9	21.5	9.4	100	81.2	21.0	39.4	52.3	7.7	39.4	3232	30445
HYLAND SEEDS 8695RA	110	P250	1,2,3,4,6	36.8	31.3	11.5	100	82.6	18.4	34.4	49.4	8.0	42.2	3350	38424	42.6	21.8	9.3	100	83.0	17.4	33.5	49.0	8.0	42.8	3379	31354
MASTERS CHOICE MC-6060	110	C250	Conv.	37.0	27.1	10.3	100	80.4	18.1	37.5	47.9	8.3	39.5	3193	32697	45.3	20.5	9.3	100	78.4	23.7	39.1	44.6	8.0	36.1	3073	28236
MYCOGEN TMF2R720	109	C250	1,2,3,4,6	35.4	33.6	11.9	100	80.6	20.5	38.2	49.1	8.2	35.5	3194	38028	37.2	25.6	9.6*	100	76.8	25.6	46.6	50.1	7.4	30.0	2905	26654
PIONEER P0210YXR	102	C250	1,2,3,4,6	41.3	27.4	11.3	99	82.6	19.0	35.2	50.5	7.9	41.9	3341	37745	43.0	21.6	9.3	99	82.5	18.9	35.4	50.7	8.5	41.1	3345	31036
PIONEER P0216AM	102	P1250	1,2,4,6	36.0	31.6	11.1	99	81.6	19.8	36.6	49.8	8.4	37.6	3269	36374	41.9	22.7	9.5	100	82.7	19.4	36.3	52.2	8.0	40.5	3346	31689
PIONEER P0945YXR	109	C250	1,2,3,4,6	35.9	32.0	11.4	100	81.6	19.3	35.7	48.5	7.9	42.4	3282	37508	42.3	23.3	9.9*	100	82.3	19.0	35.9	50.6	8.3	42.3	3328	32839
PIONEER P0970AMX	109	C250	1,2,3,4,6	37.2	32.5	12.0	100	82.5	19.6	35.5	50.7	8.0	40.2	3336	40166	37.6	24.4	9.2	100	81.4	20.9	39.1	52.3	8.2	36.3	3241	29942
PIONEER P0993HR	109	P1250	1,2,4,6	36.7	31.7	11.6	100	83.4	18.1	33.9	51.1	8.1	42.3	3404	39518	41.7	24.5	10.2**	100	82.9	19.5	36.6	53.2	8.0	40.9	3354	34290
SPECTRUM 5648	106	C250	Conv.	37.8	28.0	10.4	94	83.0	18.8	33.9	50.0	7.9	40.5	3382	35269	43.1	21.3	9.2	94	80.5	20.5	38.1	48.7	7.8	37.9	3276	30622
T. A. SEEDS TA583-28	108		1,2,3,4	39.6	30.8	12.2*	99	83.5	14.9	32.0	48.4	8.8	43.5	3424	41858	43.7	23.0	10.1*	100	80.7	22.6	41.6	53.5	7.7	36.2	3133	31292
AVERAGE				37.4	30.6	11.4	99.4	81.8	19.2	35.7	48.9	8.0	40.3	3279	37408	42.3	22.6	9.5	99.2	81.1	20.6	38.3	50.5	7.9	38.9	3237	30725
HIGHEST				43.6	36.5	13.0	100.0	84.3	24.2	40.0	51.1	8.8	45.0	3484	41858	47.9	27.2	10.2	100.0	84.4	25.6	46.6	54.5	8.5	44.9	3464	34290
LOWEST				32.0	25.7	10.2	93.5	79.5	13.7	30.5	43.2	5.6	35.5	3006	32590	36.6	20.3	8.1	93.5	76.8	17.4	33.5	44.6	7.3	30.0	2905	26030
CV (%)				6.1	7.3	6.9	1.6	2.4	9.1	9.8	3.7	12.3	9.5	4	10	5.3	5.6	5.6	1.5	1.9	8.0	6.3	6.2	4.7	7.6	3	6
LSD (5%)				2.7	2.6	0.9	1.8	2.3	2.1	4.1	3.0	1.2	4.5	158	4234	2.7	1.5	0.6	1.8	1.8	2.0	2.8	3.7	0.4	3.5	120	2265

2 Year Averages 2013 - 2012		Lenawee - Early										Wood - Early															
BRAND / HYBRID	RM	TRT	TRAIT	YIELD					% QUALITY					YIELD					% QUALITY								
				%DM	G/T/A	D/T/A	%STD	IVD	ADF	NDF	INDFD	CP	STR	MK/T	MK/A	%DM	G/T/A	D/T/A	%STD	IVD	ADF	NDF	INDFD	CP	STR	MK/T	MK/A
PIONEER P0993HR	109	P1250	1,2,4,6	38.3	22.7	8.8	96	83.7	18.8	36.4	55.2	8.1	39.5	3431	29943	38.3	22.7	8.8	96	83.7	18.8	36.4	55.2	8.1	39.5	3431	29943

** Highest Yielding Hybrid
* Not Significantly Different from Highest Yielding Hybrid

TABLE 7L.

BRANCH, LENAWEE & WOOD (OHIO) COUNTY SILAGE TRIALS - LATE (111 Day and Later)

ZONE 1

BRAND/HYBRID		2013												2012											
		Late - TRIAL AVERAGE						YIELD						MILK 2006						Branch - Late					
		RM	TRT	TRAIT	%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MK/T	MK/A	IVD	ADF	NDF	NDFD	CP	STR	MK/T	MK/A	
AGRICOLD A6517V3PRIB	113	P500	1,2,3	38.0	25.9	9.8	99	81.7	19.8	37.5	51.2	7.8	40.2	3284	31642	82.1	19.1	37.0	51.6	7.9	40.0	3320	27989		
CHANNEL 214-14VT3PRIB	114	PV500	1,2,3	39.4	26.0	10.2	98	81.7	17.8	35.6	48.4	8.6	40.1	3294	33586	82.6	15.8	33.0	47.4	8.6	42.7	3382	32141		
DAIRYLAND SEED DS-9614Q	114	C250	1,2,3,4,6	37.2	25.6	9.6	99	83.0	19.0	36.4	53.2	7.9	41.2	3369	32285	83.7	18.0	35.4	54.0	7.9	42.1	3430	30021		
DOBLERS® 698GRQ	111	C250	1,2,3,4	37.7	28.2	10.5	98	82.0	19.7	38.8	53.6	8.2	37.1	3284	34408	82.8	18.9	37.5	54.2	7.9	38.2	3357	32154		
DOBLERS® RPM® 657AM™	112	C250	1,2,3,4	38.9	27.4	10.5	96	82.0	19.4	37.5	51.9	8.3	37.6	3297	34551	83.7	16.7	34.2	52.3	8.3	40.8	3436	33916		
DOBLERS® RPM® 689AMX™	113	C250	1,2,3,4	40.1	26.9	10.7*	97	81.6	18.9	38.1	51.8	8.1	38.7	3271	35688	82.5	18.3	37.1	52.7	8.1	38.8	3341	31827		
DOBLERS® RPM® 743HR™	116	C250	1,2,3,4	38.9	27.3	10.6	97	82.2	18.8	36.5	51.2	7.9	39.4	3319	35243	83.5	17.6	34.8	52.5	7.8	41.2	3420	32771		
GOLDEN HARVEST G1U58-3122	111	C250	1,2,3,4,6	38.2	25.8	9.8	100	83.0	18.2	35.5	52.1	8.0	41.0	3378	33548	83.6	17.6	35.1	53.2	8.0	41.1	3423	32415		
GOLDEN HARVEST G12J11-3011A	112	C250	1,2,3,4	40.2	25.3	10.0	99	81.5	19.5	36.6	49.4	8.0	40.5	3378	32827	83.3	17.7	33.9	50.7	8.2	41.9	3416	31352		
GREAT LAKES 6232VT3PRIB	112	P500	1,2,3	36.9	26.7	9.8	99	81.1	19.5	37.5	49.8	7.9	39.9	3249	31631	82.6	18.1	36.1	51.8	7.9	40.5	3360	28806		
GREAT LAKES 6354VT3PRIB	113	P500	1,2,3	39.3	25.0	9.8	99	81.0	18.7	36.0	47.3	8.1	41.1	3254	32541	83.1	17.3	34.6	51.0	8.3	42.0	3396	29450		
MASTERS CHOICE MCT-6153	111	C250	1,2,3,4	39.2	25.4	9.8	97	81.6	20.0	38.3	52.1	7.6	40.8	3270	31891	84.3	17.0	33.4	52.9	7.8	44.5	3481	32320		
MYCOGEN TMF2H747	113	C250	1,2,3,4,6	35.0	29.1	10.1	99	80.7	21.5	40.6	52.3	7.4	36.7	3193	31563	82.4	19.8	37.7	53.3	7.6	39.0	3334	28834		
NK Brand N688-3122	111	C250	1,2,3,4,6	40.3	24.3	9.8	99	83.7	17.5	34.5	52.9	8.0	43.1	3428	33597	84.6	16.7	33.4	53.8	7.8	44.9	3497	31816		
NK Brand N70J-3011A	112	C250	1,2,3,4	40.2	25.6	10.3	99	81.3	18.2	35.7	47.7	7.9	41.3	3276	34361	82.7	16.3	34.9	50.3	7.5	41.7	3375	33156		
NuTechG2 GENETICS 3F-513™	115	C250	1,2	38.0	25.4	9.6	99	81.6	20.1	38.6	52.3	7.9	37.7	3262	31690	82.8	17.7	37.1	53.5	7.9	40.0	3358	29097		
NuTechG2 GENETICS 3F-515™	115	C250	1,2	37.9	27.2	10.2	97	81.3	19.8	38.1	50.9	8.7	39.0	3252	33219	82.8	18.7	35.6	51.7	8.5	39.9	3372	31853		
NuTechG2 GENETICS 5F-811™	111	C250	1,2,4	37.8	28.4	10.7*	98	81.3	19.9	37.2	49.8	8.1	38.1	3262	34861	82.7	18.2	36.1	52.1	7.8	39.1	3365	32035		
NuTechG2 GENETICS 5H-216™	116	P1250	1,2,4	39.5	26.0	10.2	98	81.1	20.3	38.9	51.5	7.7	38.3	3236	32195	82.3	18.5	37.0	52.0	7.6	38.6	3331	32648		
NuTechG2 GENETICS 5Z-113™	113	P1250	1,2,4	39.2	25.1	9.8	93	82.2	19.2	37.5	52.5	8.2	37.8	3307	32929	83.7	17.4	35.5	54.0	8.3	39.6	3423	30203		
NuTechG2 GENETICS 5Z-612™	112	P1250	1,2,4	39.6	28.2	11.2**	99	82.3	18.4	36.3	51.2	8.4	39.7	3328	37840	82.8	17.7	35.9	51.9	8.2	39.3	3369	34991		
SEED CONSULTANTS SCS 1131AM-R™	114	C250	1,2	38.0	27.1	10.2	98	81.3	18.9	37.4	50.0	8.3	38.2	3258	33258	82.3	18.1	36.6	51.8	8.5	39.0	3335	31730		
SEED CONSULTANTS SCS 1133AM-R™	113	C250	1,2	37.8	26.8	10.1	97	81.1	19.6	39.4	52.2	8.3	37.3	3246	31936	83.1	16.8	36.2	53.2	7.9	39.5	3437	34091		
SEED CONSULTANTS SCS 1154AM-R™	116	C250	1,2	38.1	28.3	10.7*	98	81.4	19.7	38.7	51.8	8.2	38.3	3251	34030	82.9	18.1	36.2	52.7	8.3	39.8	3373	32650		
SEED CONSULTANTS SCS 11H039™	114	P1250	1,2,3,4	39.3	26.4	10.3	91	82.5	17.8	35.6	50.8	8.2	39.2	3345	34409	83.2	16.8	34.7	51.7	8.2	39.7	3406	33519		
SEED CONSULTANTS SCS 11HR12™	112	P1250	1,2,4	38.6	26.5	10.5	99	81.5	19.3	37.1	50.2	8.2	38.6	3273	34230	83.3	17.2	34.8	51.9	8.3	41.4	3407	34763		
SEED CONSULTANTS SCS 11HR21™	113	P1250	1,2,4	39.8	27.7	11.0*	98	82.0	18.6	36.3	50.3	8.0	39.7	3312	36350	83.1	18.5	37.0	54.3	7.9	38.4	3378	34452		
T.A. SEEDS TA657-13VP	111	1,2,3	39.7	24.5	9.8	98	80.6	19.8	37.9	48.7	7.8	38.1	3204	31590	82.4	17.6	35.5	50.4	7.7	41.1	3351	32344			
T.A. SEEDS TA683-13VP	112	1,2,3	41.3	26.4	10.8*	98	82.3	17.9	35.0	49.4	8.1	41.4	3350	36469	82.9	17.4	35.4	51.7	7.9	41.3	3435	34917			
T.A. SEEDS TA765-30	115	1,2,4,6	38.7	28.2	10.8*	99	81.7	19.5	38.0	51.7	8.1	37.9	3275	35367	83.5	16.6	34.5	52.1	8.0	41.5	3423	33369			
AVERAGE			38.8	26.6	10.2	97.9	81.7	19.2	37.2	50.9	8.1	39.3	3287	33637	83.0	17.7	35.5	52.2	8.0	40.6	3391	32034			
HIGHEST			41.3	29.1	11.2	99.5	83.7	21.5	40.6	53.6	8.7	43.1	3428	37840	84.6	19.8	37.7	54.3	8.6	44.9	3497	34991			
LOWEST			35.0	24.3	9.6	91.3	80.6	17.5	34.5	47.3	7.4	36.7	3193	31563	82.1	15.8	33.0	47.4	7.5	38.2	3320	27989			
CV (%)			5.2	6.1	6.9	3.8	1.9	7.8	6.4	5.5	5.4	6.9	3	7	4.0	6.6	7.6	6.1	3.2	3.2	4.7	5.8	2		
LSD (5%)			1.4	1.1	0.5	2.5	1.1	1.0	1.6	1.9	0.3	1.8	1.7	1.644	1.8	2.0	2.0	2.0	2.8	0.4	2.8	93	2938		

BRAND/HYBRID		2 Year Averages 2013 - 2012												Branch - Late											
		Late - TRIAL AVERAGE						YIELD						MILK 2006						% QUALITY					
		RM	TRT	TRAIT	%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MK/T	MK/A	IVD	ADF	NDF	NDFD	CP	STR	MK/T	MK/A	
GOLDEN HARVEST G12J11-3011A	112	C250	1,2,3,4	41.5	21.2	8.7	97	83.2	17.6	34.6	51.6	7.8	41.9	3415	29773	84.4	16.2	32.8	52.7	7.5	43.8	3508	30491		
SEED CONSULTANTS SCS 11HR12™	112	P1250	1,2,4	39.9	22.9	9.1	99	83.1	18.1	35.7	52.7	8.0	40.2	3401	31038	83.9	17.1	34.2	53.0	7.7	42.7	3466	32095		
SEED CONSULTANTS SCS 11HR21™	113	P1250	1,2,4	40.1	24.7	9.9**	97	83.7	17.6	35.5	54.1	7.6	40.6	3438	33835	84.2	17.4	35.6	55.8	7.4	40.9	3472	34409		
T.A. SEEDS TA657-13VP	111	1,2,3	41.4	21.1	8.7	93	82.1	18.4	36.7	51.3	7.6	39.7	3335	29245	83.3	16.9	34.7	51.8	7.2	42.7	3426	30605			
AVERAGE			40.7	22.5	9.1	96.3	83.0	17.9	35.6	52.4	7.7	40.6	3397	30973	84.0	16.9	34.3	53.3	7.5	42.5	3468	31900			
HIGHEST			39.5	21.1	8.7	93.4	82.1	17.6	34.6	51.3	7.6	39.7	3335	29245	83.3	16.2	32.8	51.8	7.2	40.9	3426	30491			
LOWEST			5.0	6.0	6.6	5.1	1.7	7.6	6.2	4.6	5.1	6.9	3	7	5.2	7.0	7.6	7.3	1.3	7.4	6.8	3.3	5.1		
LSD (5%)			1.0	0.8	0.4	2.7	0.7	0.8	1.2	1.3	0.2	1.4	51	1255	1.6	1.4	1.4	2.0	2.0	0.3	2.3	67	2146		

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

2013		Lenawee - Late										Wood - Late															
BRAND / HYBRID	RM	TRT	TRAIT	YIELD			% QUALITY			MILK 2006	YIELD			% QUALITY			MILK 2006										
				%DM	G/T/A	D/T/A	%STD	IVD	ADF		NDF	NDFD	CP	STR	MK/T	MK/A		%DM	G/T/A	D/T/A	%STD	IVD	ADF	NDF	NDFD	CP	STR
AGRI GOLD A657V73PRIB	113	P500	1,2,3	37.4	29.0	10.9	100	80.8	20.8	38.5	50.1	7.4	39.2	3215	34946	41.6	23.3	9.7	99	82.3	19.5	36.9	51.9	8.1	41.3	3318	31991
CHANNEL 214-14VT3PRIB	114	PV500	1,2,3	39.0	31.4	12.2	100	81.2	18.3	36.2	47.9	8.4	39.3	3256	39721	41.2	21.6	8.9	99	81.2	19.5	37.6	49.9	8.8	38.4	3244	28898
DAIRYLAND SEED DS-9614Q	111	C250	1,2,3,4,6	36.2	30.1	10.9	100	83.0	18.6	35.5	52.0	7.5	41.7	3369	36548	40.8	21.3	9.2	100	82.4	20.5	38.2	53.8	8.3	39.7	3309	30286
DOEBLERS® 698GRQ	114	C250	1,2,3,4	34.5	34.9	12.0	100	81.2	19.3	39.3	52.2	8.4	35.2	3226	38852	42.2	23.3	9.9	100	81.9	21.1	39.6	54.5	8.2	37.9	3270	32219
DOEBLERS® RPM® 657AM™	112	C250	1,2,3,4	36.6	34.2	12.5	99	80.7	21.9	40.9	52.6	8.4	33.8	3175	39667	42.0	21.9	9.2	96	81.7	19.6	37.3	50.9	8.2	38.2	3279	30070
DOEBLERS® RPM® 689ANX™	113	C250	1,2,3,4	37.9	31.8	12.0	99	80.2	19.7	41.1	51.7	7.5	36.4	3150	40043	44.5	23.9	10.6*	99	82.2	18.7	36.2	50.9	8.7	40.9	3321	35193
DOEBLERS® RPM® 743HR™	116	C250	1,2,3,4	39.6	32.3	12.8	100	83.1	17.8	34.5	51.0	8.1	41.8	3384	43149	39.9	23.8	9.5	99	80.0	21.0	40.3	50.2	7.9	35.2	3152	29808
GOLDEN HARVEST G11U58-3122	111	C250	1,2,3,4,6	36.6	30.6	11.3	100	82.9	16.8	33.5	49.0	7.8	42.3	3385	38199	41.0	22.0	9.0	100	82.6	20.2	37.9	54.1	8.2	39.7	3327	30030
GOLDEN HARVEST G12J11-3011A	112	C250	1,2,3,4	37.2	30.4	11.3	100	80.9	19.8	37.8	49.3	7.6	40.1	3226	36368	44.4	21.8	9.6	100	80.3	21.0	38.0	48.2	8.2	39.6	3193	30762
GREAT LAKES 6232V73PRIB	112	P500	1,2,3	34.8	31.6	11.0	100	80.7	19.5	38.0	49.1	7.5	39.4	3211	35245	40.1	24.4	9.7	100	80.1	20.9	38.5	48.4	8.3	39.9	3175	30841
GREAT LAKES 635V73PRIB	113	P500	1,2,3	39.6	28.6	11.3	100	79.7	19.3	36.6	44.4	7.7	40.5	3164	35802	42.2	22.5	9.5	100	80.3	19.4	36.9	46.6	8.2	40.9	3203	32372
MASTERS CHOICE MCT-6153	111	C250	1,2,3,4	35.1	30.9	10.9	99	78.7	21.9	44.2	51.6	7.4	37.0	3031	32898	44.3	20.9	9.2	99	82.0	21.0	37.4	51.8	7.7	41.1	3298	30456
MYCOGEN IMF2H747	113	C250	1,2,3,4,6	34.0	34.8	11.8	100	80.5	20.4	40.3	51.6	7.1	37.0	3177	35481	38.2	25.9	9.9	99	79.1	24.3	43.7	52.1	7.4	34.2	3069	30373
NK Brand N688-3122	111	C250	1,2,3,4,6	39.9	27.3	10.8	97	83.3	17.5	34.8	51.9	7.7	42.2	3393	36728	42.3	22.5	9.5	99	83.3	18.4	35.4	52.9	8.4	42.1	3394	32246
NK Brand N70J-3011A	112	C250	1,2,3,4	38.8	28.5	11.1	98	81.9	18.2	35.1	48.4	8.1	41.8	3311	36827	43.3	23.0	10.0	100	79.3	20.0	37.3	44.4	8.1	40.6	3141	33101
NuTechG2 GENETICS 3F-513™	115	C250	1,2	35.8	31.3	11.3	100	80.3	21.0	39.7	50.3	7.3	36.4	3173	35856	40.2	21.9	8.8	100	81.6	20.6	39.2	53.1	8.5	36.6	3257	30116
NuTechG2 GENETICS 3F-515™	115	C250	1,2	36.4	31.5	11.4	100	79.7	20.7	39.2	48.2	8.8	36.6	3141	35890	40.8	24.1	9.8	100	81.5	20.9	39.4	52.9	8.9	40.6	3242	31915
NuTechG2 GENETICS 5F-811™	111	C250	1,2,4	36.4	35.0	12.7	100	81.0	19.4	36.6	48.2	8.3	38.2	3243	41269	40.2	24.5	9.9	98	80.2	22.0	39.0	49.1	8.2	37.1	3176	31281
NuTechG2 GENETICS 5H-216™	116	P1250	1,2,4	37.7	28.7	10.8	98	80.4	20.5	39.3	50.1	7.5	36.4	3182	31977	43.9	22.8	10.0	99	80.8	21.8	40.5	52.5	7.9	39.9	3194	31959
NuTechG2 GENETICS 5Z-113™	113	P1250	1,2,4	38.0	29.6	11.2	99	80.7	21.0	39.8	51.5	8.0	35.9	3194	35804	41.2	22.7	9.4	91	82.1	19.3	37.2	52.0	8.5	37.9	3306	30886
NuTechG2 GENETICS 5Z-612™	112	P1250	1,2,4	41.1	34.8	14.2**	100	82.6	18.5	36.0	51.6	8.4	41.9	3337	47468	39.9	22.5	9.0	99	81.6	19.2	36.9	50.1	8.6	38.0	3278	31062
SEED CONSULTANTS SCS 1131AM-R™	114	C250	1,2	37.2	30.1	11.2	98	80.6	18.7	37.8	48.5	7.8	38.2	3206	35861	40.3	24.9	10.0	99	81.0	19.9	37.8	49.7	8.6	37.6	3233	32183
SEED CONSULTANTS SCS 1133AM-R™	113	C250	1,2	36.3	32.1	11.7	100	80.3	22.0	41.9	53.0	8.3	36.9	3144	34529	39.9	22.9	9.1	95	80.0	20.1	40.1	50.4	8.6	35.5	3157	27189
SEED CONSULTANTS SCS 1154AM-R™	116	C250	1,2	37.2	32.1	11.9	100	80.2	20.9	41.4	52.0	8.0	38.2	3144	37334	41.1	24.8	10.2*	100	81.1	20.2	38.6	51.1	8.2	36.9	3236	31104
SEED CONSULTANTS SCS 11HQ39™	114	P1250	1,2,3,4	37.9	31.1	11.8	97	81.8	18.3	36.3	49.7	7.9	38.6	3289	38640	42.5	22.6	9.6	88	82.5	18.3	35.7	51.0	8.4	39.3	3341	32068
SEED CONSULTANTS SCS 11HR12™	112	P1250	1,2,4	34.8	32.0	11.1	99	79.6	21.3	39.9	48.7	8.0	34.8	3127	34596	42.2	24.5	10.3**	100	81.7	19.3	36.7	49.9	8.5	39.7	3283	33930
SEED CONSULTANTS SCS 11HR21™	113	P1250	1,2,4	38.7	30.6	11.9	100	81.4	17.9	34.5	46.0	8.2	40.9	3282	38970	43.2	25.3	10.9**	100	81.6	19.5	37.3	50.7	7.8	39.9	3277	35628
T. A. SEEDS TA657-13VP	111	C250	1,2,3	36.6	28.3	10.7	100	80.3	19.5	37.1	46.8	7.5	37.1	3171	33850	43.4	21.4	9.3	100	79.0	22.2	41.1	48.9	8.1	36.1	3088	28575
T. A. SEEDS TA683-13VP	112	C250	1,2,3	39.0	30.9	12.0	100	82.0	17.8	34.4	47.9	8.1	42.4	3323	40028	45.7	23.3	10.5*	100	81.9	18.4	35.2	48.5	8.3	40.5	3292	34461
T. A. SEEDS TA765-30	115	C250	1,2,4,6	36.2	33.9	12.3	99	80.8	21.1	40.4	52.5	8.0	34.9	3191	39120	42.5	24.5	10.5*	100	80.8	20.7	39.0	50.6	8.3	37.3	3211	33612
AVERAGE				37.2	31.3	11.6	99.4	81.0	19.6	38.0	49.9	7.9	38.5	3227	37389	41.8	23.2	9.7	98.4	81.2	20.2	38.2	50.7	8.3	38.7	3242	31487
HIGHEST				41.1	35.0	14.2	100.0	83.3	22.0	44.2	53.0	8.8	42.4	3393	47468	45.7	25.9	10.9	100.0	83.3	24.3	43.7	54.5	8.9	42.1	3394	35628
LOWEST				34.0	27.3	10.7	96.6	78.7	16.8	33.5	44.4	7.1	33.8	3031	31977	38.2	20.9	8.8	87.5	79.0	18.3	35.2	44.4	7.4	34.2	3069	27189
CV (%)				5.4	6.3	7.0	1.7	2.1	7.9	6.2	6.7	6.1	7.0	4	8	5.8	4.7	5.7	2.5	2.2	8.1	6.8	6.1	5.2	7.8	4	7
LSD (5%)				2.3	2.3	1.0	2.0	2.0	1.8	2.8	5.6	0.6	3.2	134	3412	2.9	1.3	0.7	2.9	2.1	1.9	3.0	5.2	0.5	3.5	147	2426

2 Year Averages 2013 - 2012		Lenawee - Late										Wood - Late													
BRAND / HYBRID	RM	TRT	TRAIT	YIELD			% QUALITY			MILK 2006	YIELD			% QUALITY			MILK 2006								
				%DM	G/T/A	D/T/A	%STD	IVD	ADF		NDF	NDFD	CP	STR	MK/T	MK/A		%DM	G/T/A	D/T/A	%STD	IVD	ADF	NDF	NDFD
GOLDEN HARVEST G12J11-3011A	112	C250	1,2,3,4	No data collected 2012										41.3	21.3	8.8	96	81.9	19.0	36.4	50.5	8.0	40.1	3321	29055
SEED CONSULTANTS SCS 11HR12™	112	P1250	1,2,4	No data collected 2012										39.5	22.7	9.0	100	82.3	19.1	37.2	52.4	8.4	37.7	3337	29980
SEED CONSULTANTS SCS 11HR21™	113	P1250	1,2,4	No data collected 2012										40.4	24.3	9.8**	96	83.2	17.8	35.4	52.5	7.8	40.2	3404	33260
T. A. SEEDS TA657-13VP	111	C250	1,2,3	No data collected 2012										40.7	21.1	8.6	93	81.0	20.0	38.7	50.8	8.1	36.7	3243	27886
AVERAGE				No data collected 2012										40.5	22.3	9.1	96.0	82.1	19.0	36.9	51.6	8.0	38.7	3326	30045
HIGHEST				No data collected 2012										41.3	24.3	9.8	99.6	83.2	20.0	38.7	52.5	8.4	40.2	3404	33260
LOWEST				No data collected 2012										39.5	21.1	8.6	93.1	81.0	17.8	35.4	50.5	7.8	36.7	3243	27886
CV (%)				No data collected 2012										4.7	4.6	5.2	3.4	1.7	7.0	5.7	4.6	4.3	6.7	3	6
LSD (5%)																									

TABLE 8E.

ALLEGAN, HURON & INGHAM COUNTY SILAGE TRIALS - EARLY (104 Day and Earlier)

ZONE 2 - 3

2013		Early - TRIAL AVERAGE										Allegan - Early																			
		YIELD					% QUALITY					YIELD					% QUALITY														
BRAND / HYBRID	RM	TRT	TRAIT	%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MLK 2006	MLK/ MKT	MK/A	%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MLK 2006	MLK/ MKT	MK/A		
CHANNEL 202-64STXRIB	102	PV500	1,2,3,4,6	39.7	24.0	9.4	100	84.2	16.6	33.1	52.2	7.8	44.0	3480	32840																
CROPLAN 4199SS	101	C250	1,2,3,6	38.6	26.5	10.2*	99	84.4	16.7	33.4	53.1	7.7	43.8	3486	36698																
CROPLAN 4819AS3000GT	103	C250	1,2,3,4	38.8	27.0	10.4*	100	84.6	17.1	33.5	53.9	7.4	43.1	3499	36208																
CROPLAN 4975VT3P	102	C250	1,2,3	40.6	24.3	9.8	99	83.0	17.3	34.5	50.7	7.1	41.8	3390	33115																
CROPLAN 5415SSRIB	104	C250	1,2,3,6	35.8	28.8	10.4*	100	82.5	19.2	36.0	51.5	7.0	40.1	3324	34438																
DAIRYLAND SEED HI DF-3197-7	97	C250	1,2	43.4	22.4	9.5	99	83.9	17.9	34.2	52.9	7.8	45.0	3449	32022																
DAIRYLAND SEED HI DF-3396SSX	96	C250	1,2,3,4,6	40.9	22.7	9.2	100	83.0	17.8	35.3	51.7	7.8	42.8	3386	32117																
DAIRYLAND SEED HI DF-3702-9	104	C250	1,2,3,4	38.1	26.3	9.9	99	83.6	17.5	34.1	51.9	7.4	42.7	3436	34141																
DYNAGRO D38SS50	97	P500	1,2,3,4,6	41.2	23.9	9.8	100	84.3	16.7	32.1	50.7	7.8	45.5	3488	33003																
GREAT LAKES 5015STXRIB	100	P500	1,2,3,6	38.7	25.3	9.7	100	84.2	17.1	33.7	52.9	7.7	43.8	3472	33693																
GREAT LAKES 5283STXRIB	102	P500	1,2,3,6	38.3	27.6	10.5**	100	84.0	16.4	32.8	51.1	7.8	43.5	3467	36295																
GREAT LAKES 5368VT3PRIB	103	P500	1,2,3	37.5	27.3	10.2*	100	83.9	17.7	34.8	53.8	7.3	41.7	3449	35096																
HYLAND SEEDS 8575RA	104	P250	1,2,3,4,6	36.4	27.0	9.8	99	83.9	16.9	33.1	51.4	7.6	43.2	3463	34317																
HYLAND SEEDS HLSR59	102	P250	1	33.3	29.3	9.7	100	81.0	20.4	39.7	52.1	7.3	34.4	3232	31354																
LEGACY SEEDS L-5350 3000GT	104	C250	1,2,3,4	36.3	26.8	9.7	100	82.8	18.9	35.0	51.0	7.4	39.3	3415	33666																
MASTERS CHOICE MC-4880	98	C250	Conv.	41.6	23.8	9.9	100	84.1	16.5	32.8	51.4	7.5	44.1	3475	34400																
MASTERS CHOICE MC-5370	103	C250	Conv.	37.8	26.7	10.0*	92	84.0	17.0	33.5	52.1	7.5	42.5	3464	34784																
MYCOGEN TMF2L538	101	C250	1,2,3,4,6	33.1	28.2	9.3	100	81.4	20.4	41.1	54.6	7.0	34.4	3240	29508																
PIONEER P0210YXR	102	C250	1,2,3,4,6	37.1	27.4	10.1*	100	84.0	17.8	33.0	51.4	7.5	42.3	3466	35108																
PIONEER P0216AM	102	PT250	1,2,4,6	36.2	28.9	10.4*	100	84.7	16.8	33.2	53.9	7.8	43.1	3507	36387																
PIONEER P0255AMXT	102	C250	1,2,3,4,6	38.2	26.2	9.9	100	82.9	17.9	36.1	52.5	8.0	40.5	3372	33540																
RENK RK565GTCLLRWBL	99	C250	1,2,3,4,6	41.8	24.4	10.2*	100	84.0	16.4	32.8	51.1	7.7	44.0	3470	35240																
RENK RK629VT3P	102	P250	1,2,3	36.4	28.2	10.3*	99	83.1	17.6	34.6	51.0	7.7	41.6	3397	35822																
SPECIALTY 34A413	104	P500	1,2,3,4,6	38.6	26.4	10.2*	100	84.2	16.4	33.0	52.0	7.8	43.1	3479	35525																
SPECTRUM 5045	100	C250	Conv.	42.7	24.6	10.5**	98	83.8	16.4	32.7	50.5	7.6	44.5	3458	36236																
AVERAGE				38.5	26.2	10.0	99.3	83.6	17.5	34.3	52.1	7.6	42.2	3431	34222																
HIGHEST				43.4	29.3	10.5	100.0	84.7	20.4	41.1	54.6	8.0	45.5	3507	36698																
LOWEST				33.1	22.4	9.2	91.9	81.0	16.4	32.1	50.5	7.0	34.4	3232	29508																
CV (%)				5.3	6.1	5.8	1.5	1.9	9.2	6.9	6.3	5.2	7.0	3	6																
LSD (5%)				1.7	1.3	0.5	1.2	1.3	1.3	2.0	2.7	0.3	2.4	92	1713																

2 Year Averages 2013 - 2012		Early - TRIAL AVERAGE										Allegan - Early																			
		YIELD					% QUALITY					YIELD					% QUALITY														
BRAND / HYBRID	RM	TRT	TRAIT	%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MLK 2006	MLK/ MKT	MK/A	%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MLK 2006	MLK/ MKT	MK/A		
DAIRYLAND SEED HI DF-3197-7	97	C250	1,2	42.8	18.6	7.9	100	84.4	18.3	35.9	56.3	7.8	41.2	3462	26979																
DAIRYLAND SEED HI DF-3396SSX	96	C250	1,2,3,4,6	42.8	18.9	8.0	100	84.7	16.6	34.7	55.8	7.9	43.3	3514	28258																
DAIRYLAND SEED HI DF-3702-9	104	C250	1,2,3,4	37.1	22.7	8.4*	99	83.9	18.2	36.1	55.2	7.2	40.6	3460	29201																
LEGACY SEEDS L-5350 3000GT	104	C250	1,2,3,4	36.4	22.4	8.1	100	83.8	18.6	36.5	55.5	7.4	38.1	3467	28418																
RENK RK565GTCLLRWBL	99	C250	1,2,3,4,6	41.9	20.2	8.4*	100	84.1	17.2	35.3	54.5	7.7	40.9	3472	29374																
RENK RK629VT3P	102	P250	1,2,3	37.8	23.2	8.7**	100	84.1	17.3	35.3	54.9	7.7	40.4	3477	30532																
AVERAGE				39.8	21.0	8.3	99.6	84.2	17.7	35.6	55.4	7.6	40.8	3475	28794																
HIGHEST				42.8	23.2	8.7	100.0	84.7	18.6	36.5	56.3	7.9	43.3	3514	30532																
LOWEST				36.4	18.6	7.9	99.1	83.8	16.6	34.7	54.5	7.2	38.1	3460	26979																
CV (%)				5.6	5.8	6.5	1.7	1.7	9.2	7.2	5.2	5.1	8.1	3	7																
LSD (5%)				1.2	0.8	0.3	0.9	0.7	0.9	1.3	1.5	0.2	1.8	52	1224																

** Highest Yielding Hybrid
 * Not Significantly Different from Highest Yielding Hybrid

2013		Huron - Early										Ingham - Early															
BRAND / HYBRID	RM	TRT	TRAIT	YIELD					% QUALITY					MILK 2006													
				%DM	GTIA	DTIA	%STD	IVD	ADF	NDF	NDFFD	CP	STR	MKIT	MKIA	%DM	GTIA	DTIA	%STD	IVD	ADF	NDF	NDFFD	CP	STR	MKIT	MKIA
CHANNEL 202-645TXRIB	102	PV500	1,2,3,4,6	36.3	26.2	9.5	100	84.0	17.5	34.1	53.0	7.6	42.4	43.1	21.8	9.4	100	84.5	15.8	32.0	51.5	8.1	45.5	3502	32825		
CROPLAN 41995SS	101	C250	1,2,3,6	36.4	27.9	10.2*	99	84.1	17.7	34.6	53.9	7.6	42.1	40.9	25.2	10.3*	99	84.7	15.7	32.1	52.3	7.8	45.6	3512	36262		
CROPLAN 4819AS3000GT	103	C250	1,2,3,4	35.3	29.5	10.4**	100	84.9	17.3	33.5	54.8	7.5	42.8	42.2	24.6	10.4*	99	84.3	17.0	33.5	53.1	7.3	43.4	3480	35995		
CROPLAN 4975VT3P	102	C250	1,2,3	37.7	25.6	9.6	100	82.3	18.8	36.6	51.7	6.9	40.5	33.42	32.032	10.0	99	83.7	15.8	32.3	49.7	7.3	43.2	3438	34197		
CROPLAN 54155SRIB	104	C250	1,2,3,6	33.6	30.3	10.4**	99	81.3	20.6	37.8	50.5	7.0	36.5	38.0	27.4	10.4*	100	83.8	17.8	34.2	52.5	7.1	43.8	3442	35599		
DAIRYLAND SEED HI DF-3197-7	97	C250	1,2	39.2	24.8	9.7*	98	83.9	17.7	34.7	53.5	7.9	43.7	47.6	20.0	9.4	100	83.9	18.1	33.7	52.3	7.8	46.3	3452	32439		
DAIRYLAND SEED HI DF-3396SSX	96	C250	1,2,3,4,6	37.2	24.7	9.2	100	81.6	18.7	38.4	51.9	7.3	40.4	44.6	20.8	9.2	100	84.4	16.9	32.1	51.5	8.3	45.2	3494	32247		
DAIRYLAND SEED HI DF-3702-9	104	C250	1,2,3,4	33.7	28.5	9.6	99	82.2	19.4	37.2	52.0	7.3	38.9	42.5	24.1	10.2	100	85.1	15.7	31.1	51.9	7.4	46.4	3545	36229		
DYNAGRO D38SS0	97	P500	1,2,3,4,6	36.9	25.8	9.5	99	83.7	19.5	35.4	53.8	7.8	41.7	34.28	32.686	10.0	100	84.9	14.0	28.9	47.6	7.8	49.3	3548	33320		
GREAT LAKES 50155TXRIB	100	P500	1,2,3,6	35.1	27.2	9.5	100	83.8	18.1	34.8	53.3	8.0	42.0	42.4	23.3	9.9	100	84.6	16.1	32.6	52.6	7.4	45.6	3505	34637		
GREAT LAKES 52835TXRIB	102	P500	1,2,3,6	34.4	30.1	10.3*	100	83.2	17.8	35.0	51.9	7.9	41.1	42.2	25.1	10.6*	100	84.8	15.1	30.7	50.4	7.8	45.9	3530	37421		
GREAT LAKES 5368VT3PRIB	103	P500	1,2,3	34.4	29.1	10.0*	100	82.9	19.1	37.0	53.9	7.2	39.0	40.7	25.5	10.4*	100	85.0	16.4	32.6	53.8	7.4	44.4	3525	36483		
HYLAND SEEDS 8576RA	104	P250	1,2,3,4,6	33.2	29.1	9.6	100	83.6	19.0	34.7	52.6	7.4	41.2	34.32	34.048	9.9	98	84.3	14.9	31.5	50.1	7.9	45.2	3494	34586		
HYLAND SEEDS HL SR59	102	P250	1	31.0	31.7	9.8*	100	81.1	20.9	40.1	53.0	7.2	33.3	35.7	26.9	9.6	100	80.9	19.9	39.3	51.2	7.4	35.6	3224	30879		
LEGACY SEEDS L-5350 3000GT	104	C250	1,2,3,4	34.4	28.7	9.9*	100	80.8	21.1	37.4	48.5	7.3	34.5	38.3	25.0	9.5	100	84.8	16.7	32.6	53.4	7.5	44.0	3519	33501		
MASTERS CHOICE MC-4880	98	C250	Conv.	38.2	24.3	9.3	100	83.2	18.3	35.4	52.6	7.2	41.5	45.1	23.3	10.5*	100	85.0	14.7	30.3	50.3	7.8	46.6	3545	37225		
MASTERS CHOICE MC-5370	103	C250	Conv.	35.2	28.2	9.9*	92	83.7	18.0	35.2	53.6	7.3	40.6	40.5	25.1	10.2	92	84.3	15.9	31.8	50.6	7.7	44.4	3494	35584		
MYCOGEN TMF2L538	102	C250	1,2,3,4,6	31.0	29.0	9.0	100	81.3	20.4	42.6	52.7	6.7	32.7	32.26	29.046	35.3	27.3	80.1	20.3	39.5	53.0	7.3	36.2	3255	29771		
PIONEER P0210YXR	102	C250	1,2,3,4,6	33.8	28.2	9.5	99	83.0	18.5	35.8	52.4	7.3	39.4	33.84	32.227	40.4	26.5	10.7*	100	85.1	17.0	30.1	50.4	7.7	45.2	3548	37988
PIONEER P0216AM	102	P1250	1,2,4,6	33.4	31.3	10.4**	100	83.6	17.4	35.3	53.4	7.5	40.3	34.25	35.730	39.0	26.5	10.3*	100	85.8	16.3	31.1	54.5	8.0	45.9	3590	37044
PIONEER P0255AMXT	102	C250	1,2,3,4,6	35.0	27.3	9.5	100	82.1	19.9	37.2	51.7	7.7	39.8	33.18	31.643	41.4	25.1	10.4*	100	83.7	16.0	35.0	53.3	8.2	41.3	3425	35437
RENK RK565GT CBLLRWBL	99	C250	1,2,3,4,6	39.3	24.7	9.7*	100	83.6	17.3	33.8	51.5	7.6	42.9	44.3	24.0	10.6*	100	84.4	15.6	31.8	50.8	7.8	45.1	3498	37082		
RENK RK629VT3P	102	P250	1,2,3	34.5	29.5	10.2*	100	82.2	18.5	35.8	50.1	7.5	40.0	33.38	35.888	38.4	27.0	10.4*	99	83.9	16.6	33.4	51.9	7.9	43.2	3456	35755
SPECIALTY 344A13	104	P500	1,2,3,4,6	36.8	26.8	9.9*	97	84.2	17.0	33.8	53.2	7.7	41.3	34.76	34.326	40.5	26.1	10.6*	100	84.5	15.8	32.2	50.9	7.9	44.8	3481	36724
SPECTRUM 5045	100	C250	Conv.	40.4	25.0	10.1*	97	83.0	17.6	34.3	50.4	7.4	42.5	40.00	34.144	45.0	24.3	10.9**	100	84.6	15.2	31.1	50.5	7.8	46.5	3517	38329
AVERAGE				35.5	27.7	9.8	99.3	82.9	18.6	36.0	52.5	7.4	40.0	33.80	33.334	41.5	24.6	10.1	99.4	84.2	16.4	32.6	51.6	7.7	44.3	3481	35110
HIGHEST				40.4	31.7	10.4	100.0	84.9	21.1	42.6	56.2	8.0	43.7	35.18	37.134	47.6	27.4	10.9	100.0	85.8	20.3	39.5	54.5	8.3	49.3	3590	38329
LOWEST				31.0	24.3	9.0	91.9	80.8	17.0	33.5	48.5	6.7	32.7	32.07	29.046	35.3	20.0	9.2	91.9	80.9	14.0	28.9	47.6	7.1	35.6	3224	29771
CV (%)				5.0	5.8	6.3	1.7	2.1	8.8	7.1	7.0	5.6	7.7	4	7	5.5	6.4	5.1	1.3	1.6	8.7	6.7	5.5	4.7	6.0	3	6
LSD (5%)				2.1	1.9	0.7	2.0	2.1	1.9	3.0	6.2	0.5	3.7	144	2641	2.7	1.9	0.6	1.5	1.6	1.7	2.6	4.8	0.4	3.1	116	2317

2 Year Averages 2013 - 2012		Huron - Early										Ingham - Early															
BRAND / HYBRID	RM	TRT	TRAIT	YIELD					% QUALITY					MILK 2006													
				%DM	GTIA	DTIA	%STD	IVD	ADF	NDF	NDFFD	CP	STR	MKIT	MKIA	%DM	GTIA	DTIA	%STD	IVD	ADF	NDF	NDFFD	CP	STR	MKIT	MKIA
DAIRYLAND SEED HI DF-3197-7	97	C250	1,2	42.1	20.2	8.3	99	84.8	17.5	35.3	56.7	7.6	43.1	35.18	28.371	43.6	17.0	7.5	100	84.0	19.1	36.5	55.9	8.0	39.3	3406	25588
DAIRYLAND SEED HI DF-3396SSX	96	C250	1,2,3,4,6	41.2	19.6	7.9	100	83.9	17.3	36.5	56.1	7.4	41.9	34.56	27.889	44.5	18.2	8.0*	100	85.5	15.9	32.8	55.6	8.4	44.7	3573	28628
DAIRYLAND SEED HI DF-3702-9	104	C250	1,2,3,4	35.5	24.5	8.7*	98	83.3	18.9	37.3	55.3	7.0	39.2	34.20	29.624	38.8	21.0	8.2*	100	84.5	17.5	35.0	55.2	7.4	42.0	3501	28877
LEGACY SEEDS L-5350 3000GT	104	C250	1,2,3,4	36.4	24.0	8.6*	99	83.2	19.4	36.9	54.4	7.2	36.5	34.45	30.112	36.5	20.7	7.6	100	84.4	17.9	36.1	56.5	7.6	39.8	3489	26725
RENK RK565GT CBLLRWBL	99	C250	1,2,3,4,6	42.2	20.4	8.5*	100	84.3	17.0	34.4	54.4	7.3	42.7	35.01	29.669	41.6	19.9	8.4*	100	83.9	17.5	36.1	54.6	8.0	39.1	3443	29080
RENK RK629VT3P	102	P250	1,2,3	37.3	24.1	8.9**	100	83.9	17.6	35.5	54.7	7.4	40.5	34.68	31.531	38.2	22.2	8.5**	99	84.3	17.0	35.1	55.1	8.0	40.4	3486	29533
AVERAGE				39.1	22.1	8.5	99.4	83.9	17.9	36.0	55.3	7.3	40.7	34.68	29.516	40.5	19.8	8.0	99.8	84.4	17.5	35.3	55.5	7.9	40.9	3483	28072
HIGHEST				42.2	24.5	8.9	100.0	84.8	19.4	37.3	56.7	7.6	43.1	35.18	31.531	44.5	22.2	8.5	100.0	85.5	19.1	36.5	56.5	8.4	44.7	3573	29533
LOWEST				35.5	19.6	7.9	98.2	83.2	17.0	34.4	54.4	7.0	36.5	34.20	27.889	36.5	17.0	7.5	99.3	83.9	15.9	32.8	54.6	7.4	39.1	3406	25588
CV (%)				4.9	5.3	6.2	1.9	1.7	7.9	6.3	5.1	5.2	7.8	3	7	5.6	6.1	6.2	1.6	1.6	9.2	7.6	5.1	5.2	8.2	3	7
LSD (5%)				1.5	1.1	0.5	1.6	1.2	1.2	1.9	3.3	0.3	2.6	85	1819	1.9	1.2	0.5	1.3	1.1	1.3	2.1	3.2	0.3	2.9	78	1825

** Highest Yielding Hybrid
 * Not Significantly Different from Highest Yielding Hybrid

2013		Huron - Late										Ingham - Late															
BRAND/HYBRID	TRT	RM	TRAIT	YIELD					% QUALITY					YIELD					% QUALITY					MILK 2006			
				%DM	G/T/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MK/IT	MK/A	%DM	G/T/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MK/IT	MK/A
AGRICOLD A6358V13P10	P500	105	1,2,3	40.2	24.0	9.3	100	82.4	20.8	37.7	53.3	6.7	40.9	33.7	31088	41.4	25.8	10.7	100	81.7	19.5	37.6	51.2	7.2	40.1	32.91	35298
AGRICOLD A6408V13PR1B	P500	107	1,2,3	36.3	25.7	9.3	100	81.1	20.6	38.9	51.5	6.8	38.1	32.95	30278	42.3	24.7	10.5	100	82.6	17.9	34.8	50.0	7.5	42.9	33.71	35232
CHANNEL 207-13V13PR1B	PV500	107	1,2,3	38.6	26.1	10.1	99	82.5	18.8	36.8	52.4	7.2	39.4	33.53	33777	37.2	30.3	11.3	97	81.9	19.2	37.6	51.7	7.8	37.6	32.99	37307
CROPLAN 588V713P	C250	107	1,2,3	37.7	25.2	9.5	100	82.2	18.8	37.1	52.0	7.1	39.4	33.34	31656	37.4	29.5	11.4	100	82.9	17.6	35.6	51.7	7.8	41.7	33.77	38339
DAIRYLAND SEED DS-9311SSX	C250	110	1,2,3,4,6	36.0	24.1	8.7	100	81.5	20.7	39.6	53.4	7.3	36.6	32.69	28388	36.3	28.3	10.3	100	80.1	19.9	38.9	51.5	7.5	38.2	32.44	33278
DAIRYLAND SEED HI DF-3108RA	C250	108	1,2,3,4,6	32.7	28.3	9.3	100	80.2	22.2	41.3	52.2	6.8	32.9	31.82	30553	34.2	30.9	10.6	100	81.8	20.9	39.7	51.6	7.0	36.1	32.20	33984
DAIRYLAND SEED HI DF-3510SSX	C250	110	1,2,3,4,6	31.0	29.7	9.2	98	80.4	23.3	41.2	52.6	6.7	31.4	30.95	28382	31.8	34.5	11.0	96	80.6	22.0	41.2	52.9	7.2	35.4	31.94	34993
DYNAORO D50S543	P500	110	1,2,3	34.8	25.4	8.6	99	80.4	20.2	40.5	51.6	7.0	35.8	31.96	29279	39.1	29.6	11.6	99	82.7	18.1	36.1	51.9	7.5	39.7	33.61	38835
DYNAORO D45Q50	P500	105	1,2,3,4	35.1	27.5	9.6	99	83.2	19.9	37.9	54.6	7.2	37.3	33.59	32240	36.3	28.5	10.4	94	82.6	19.1	36.6	52.4	7.4	39.5	33.50	34666
GOLDEN HARVEST G05182-3122	C250	105	1,2,3,4,6	38.4	24.4	9.4	99	83.2	19.9	35.0	52.0	7.4	41.2	34.07	33469	39.6	28.4	11.3	94	83.9	16.8	33.4	51.7	7.6	43.1	34.58	38946
GOLDEN HARVEST G08X83-3110	C250	108	1,2,4,6	34.3	28.4	9.8	100	81.3	20.2	38.9	51.9	8.0	35.3	32.60	31864	37.8	29.2	11.0	100	82.8	17.8	35.6	51.6	8.3	40.0	33.68	37039
GOLDEN HARVEST G09E98-3000G	C250	109	1,2,3,4	36.1	25.8	9.3	100	81.6	20.6	39.1	52.8	7.1	39.3	33.68	32835	37.1	28.7	10.8	100	83.7	17.4	34.5	52.7	7.7	40.1	34.35	37090
GREAT LAKES 5785V13PR1B	P500	107	1,2,3	36.5	24.7	9.1	100	81.4	20.3	38.4	51.7	6.7	39.1	32.78	29741	41.8	26.2	11.0	100	83.1	17.6	34.5	51.0	7.3	43.4	34.04	37295
HYLAND SEEDS 4687	P250	110	1,2,3,4	35.1	27.0	9.5	99	82.3	21.1	39.4	55.0	6.7	38.7	33.15	31343	38.6	27.0	10.5	94	83.4	17.9	35.0	52.5	7.2	41.6	34.13	35713
HYLAND SEEDS 8695RA	P250	110	1,2,3,4,6	37.5	24.9	9.7	100	82.2	19.6	37.6	52.6	7.0	40.3	33.27	31036	38.1	28.4	10.8	100	83.4	18.7	35.6	53.3	7.3	42.3	34.07	36752
LEGACY SEEDS L5810 3000GT	C250	106	1,2,3,4	36.6	26.5	9.7	99	83.0	19.8	36.5	53.4	7.0	39.9	33.84	34534	36.5	29.3	10.7	98	83.0	18.8	36.3	53.1	7.6	39.9	33.78	36016
LEGACY SEEDS L7253 3000GT	C250	112	1,2,3,4	36.1	25.8	9.3	100	81.6	20.6	39.1	52.8	7.1	39.3	32.77	30472	36.5	29.0	10.6	100	81.5	19.7	37.5	50.8	7.2	41.5	32.82	34650
MASTERS CHOICE MCT-5663	C250	106	1,2,3,4	33.8	26.9	9.1	100	82.8	19.6	37.0	53.5	7.0	39.3	33.68	30488	38.0	27.7	10.5	99	84.0	17.6	34.6	53.7	7.4	41.2	34.54	36286
NK Brand N63W-3122	C250	108	1,2,3,4,6	38.2	24.7	9.4	99	83.1	18.1	35.0	51.6	7.2	41.5	34.02	31813	37.1	27.9	10.2	99	81.5	19.5	37.4	50.5	7.6	38.2	32.82	33562
NK Brand N61X-3110	C250	105	1,2,4,6	34.6	27.7	9.6	100	81.6	20.2	39.5	53.2	7.6	35.7	32.69	31300	37.3	28.9	11.0	98	82.8	18.0	36.3	52.7	8.1	38.8	33.67	36985
NK Brand N63R-3000GT	C250	109	1,2,3,4	35.2	27.6	9.7	100	82.5	18.4	35.8	50.9	7.0	34.4	31.98	33136	37.6	29.7	10.9	100	83.7	17.6	34.6	52.8	7.5	40.6	34.33	37503
NuTech 3A-306™	C250	106	1	34.1	26.4	9.0	100	81.6	21.2	40.6	54.5	7.1	36.1	32.62	29291	36.6	26.4	9.7	100	81.2	19.5	39.1	51.9	7.0	36.2	32.50	31322
NuTech 5N-406™	C250	106	1,2,3,4	35.7	26.5	9.4	99	82.3	19.2	37.8	53.2	6.9	38.5	33.34	31461	38.5	28.7	11.1	100	83.6	16.9	33.5	51.0	7.6	42.2	34.41	38044
NuTechG2 GENETICS 3D-909™	C250	109	1,2,3,4	39.0	24.7	9.6	100	81.6	18.8	36.9	50.0	7.3	38.9	32.98	31587	38.6	27.9	10.8	97	82.1	17.7	36.1	50.5	8.0	39.1	33.29	35785
NuTechG2 GENETICS 5H-806™	C250	106	1,2,4	38.7	23.6	9.1	99	83.1	18.3	36.6	53.8	7.0	40.9	33.90	30787	37.5	26.5	10.1	93	84.5	17.2	34.1	54.4	8.0	41.7	34.83	33467
NuTechG2 GENETICS 5Z-109™	P1250	109	1,2,4	37.9	26.3	10.0	100	81.8	20.1	38.3	52.5	6.9	38.8	33.00	32893	39.8	28.4	11.3	99	83.2	17.4	34.6	51.3	7.4	41.8	34.05	38401
PIONEER P0945YXR	C250	109	1,2,3,4,6	35.3	27.3	9.6	98	81.1	21.3	40.1	53.0	7.3	34.3	32.41	31059	35.3	30.0	10.6	100	81.1	20.3	38.7	51.2	7.5	38.1	32.47	34393
PIONEER P0970AMX	C250	109	1,2,3,4,6	33.4	28.1	9.4	100	80.6	22.4	42.3	54.1	6.7	30.9	31.23	29190	36.1	28.8	10.5	100	82.7	19.0	37.3	53.6	7.6	38.0	33.52	33742
PIONEER P0993HR	P1250	109	1,2,4,6	35.5	29.0	10.3	99	83.3	19.2	36.3	54.0	7.3	40.4	34.00	34960	39.5	29.0	11.4	98	85.4	15.9	31.9	54.3	7.6	45.6	35.62	40645
RENK RK85BVT3P	C250	112	1,2,3	36.2	26.2	9.4	100	81.2	20.5	39.2	52.0	6.9	34.9	32.23	30301	37.0	31.5	11.7	99	82.6	18.5	36.6	52.4	7.5	39.5	33.53	39177
SPECIALTY 43R83GENVT3P	P500	105	1,2,3	39.2	24.1	9.4	100	82.4	18.7	36.5	51.8	6.7	41.1	33.53	31626	39.9	27.9	11.1	100	83.3	16.8	34.4	51.3	7.3	42.9	34.15	38004
SPECIALTY 46R02GENVT3P	P500	109	1,2,3	32.5	27.9	9.0	99	81.2	20.2	38.9	51.8	7.4	38.7	32.58	29401	37.0	29.6	11.0	100	83.5	17.1	34.1	51.7	7.5	42.7	34.29	37554
SPECIALTY 83R90GENSS	P500	105	1,2,3,4,6	39.1	23.8	9.3	100	82.9	20.8	38.4	55.1	7.0	41.0	33.58	31164	40.1	27.8	11.1	100	83.1	17.9	34.7	51.4	7.2	43.5	34.02	37782
AVERAGE				36.1	26.2	9.4	99.5	81.9	20.0	38.2	52.8	7.1	37.8	32.96	31254	37.8	28.6	10.8	98.7	82.7	18.3	36.0	52.0	7.5	40.4	33.65	36306
HIGHEST				40.2	29.7	10.3	100.0	83.3	23.3	42.3	55.1	8.0	41.5	34.07	34960	42.3	34.5	11.7	100.0	85.4	22.0	41.2	54.4	8.3	45.6	35.62	40645
LOWEST				31.0	23.6	8.6	96.9	80.2	17.9	35.0	50.0	6.7	30.9	30.95	28382	31.8	24.7	9.7	93.2	80.6	15.9	31.9	50.0	7.0	35.4	31.94	31322
CV (%)				5.3	6.6	6.2	1.7	1.8	8.2	6.9	3.9	6.7	7.0	3	6	4.9	5.8	5.7	3.2	1.4	7.3	5.8	2.9	4.0	5.7	2	7
LSD (5%)				2.3	2.0	0.7	2.0	1.7	1.9	3.1	3.5	0.6	3.1	1.31	2376	2.2	1.9	0.7	3.7	1.3	1.6	2.5	2.5	0.4	2.7	97	2881

2 Year Averages 2013 - 2012		Huron - Late										Ingham - Late															
BRAND/HYBRID	TRT	RM	TRAIT	YIELD					% QUALITY					YIELD					% QUALITY					MILK 2006			
				%DM	G/T/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MK/IT	MK/A	%DM	G/T/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MK/IT	MK/A
DYNAORO D45Q50	P500	105	1,2,3,4	36.5	24.4	8.9	98	83.6	19.1	37.7	56.4	6.9	38.2	34.28	30292	30.3	24.3	7.6	96	83.8	18.2	35.9	54.8	7.2	39.7	34.45	26013
LEGACY SEEDS L5810 3000GT	C250	106	1,2,3,4	36.7	23.3	8.5	99	84.2	18.6	36.2	56.3	6.7	40.2	34.75	30415	29.2	24.0	7.4	96	83.4	19.2	38.4	56.7	7.2	3		

BRAND / HYBRID	RM	TRT	TRAIT	TRIAL AVERAGE														IOSCO													
				YIELD							% QUALITY							YIELD							% QUALITY						
				%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MILK	MK/A	%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MILK	MK/A				
DAIRYLAND SEED HI DF-3197-7	97	C250	1.2	43.0	21.8	8.8	99	81.5	20.1	38.4	51.4	8.2	41.4	3266	29196	57.3	15.7	8.9	100	81.1	17.0	34.6	45.6	9.2	45.6	3259	29083				
DAIRYLAND SEED HI DF-3290-9	90	C250	1.2,3,4	47.8	19.2	8.7	99	81.1	20.9	37.4	49.4	7.9	41.4	3287	28483	62.8	13.5	8.4	98	82.8	17.2	34.2	49.4	9.1	46.4	3364	28354				
DAIRYLAND SEED HI DF-3396SSX	96	C250	1.2,3,4,6	42.4	21.6	8.7	99	82.8	18.0	36.3	52.3	8.5	40.3	3296	29196	56.6	15.8	8.9	100	83.6	15.6	32.8	50.0	9.3	47.2	3424	30330				
DAIRYLAND SEED HI DF-3702-9	104	C250	1.2,3,4	34.7	25.1	8.5	98	81.5	20.2	39.0	52.6	7.7	39.4	3266	28057	42.0	20.8	8.7	94	81.3	20.1	38.9	52.0	7.9	40.8	3236	28161				
DYNAGRO D31VP31	91	P500	1.2,3	45.4	18.4	8.2	98	82.4	17.9	35.2	49.5	7.9	44.9	3348	26789	57.1	15.6	8.9	97	81.8	17.1	34.3	46.6	8.3	46.3	3303	27922				
GET101fys	101	Conv.		35.1	22.3	7.3	93	82.3	19.6	38.6	53.8	7.7	38.5	3315	24371	45.6	16.4	7.5	88	83.3	16.5	32.6	48.9	8.0	45.9	3416	25502				
GOLDEN HARVEST G01P52-3011A	101	C250	1.2,3,4	37.9	23.9	8.7	98	82.5	18.0	35.8	51.3	8.0	42.2	3354	29354	47.2	19.1	9.0	97	81.8	18.0	36.0	49.4	8.0	44.0	3294	29677				
GOLDEN HARVEST G2143-3111	92	C250	1.2,3,4,6	52.2	17.1	8.5	98	82.3	18.1	35.9	50.5	8.2	44.3	3336	27951	67.8	12.8	8.6	99	84.1	15.4	31.5	49.4	8.8	48.2	3467	29911				
GREAT LAKES 48795TXRIB	98	P500	1.2,3,6	38.8	23.1	8.7	99	81.9	19.1	38.8	53.3	7.8	40.5	3289	28580	48.0	19.2	9.2*	100	81.1	19.4	38.6	50.9	8.5	41.1	3223	29652				
GREAT LAKES 50155TXRIB	100	P500	1.2,3,6	38.6	23.0	8.5	100	81.0	19.7	37.8	49.5	7.7	40.6	3288	27358	49.3	18.2	8.9	100	80.0	17.1	34.3	41.8	8.5	45.3	3359	30363				
GREAT LAKES 52835TXRIB	102	P500	1.2,3,6	35.9	26.9	9.4**	99	81.3	18.7	37.2	49.6	7.9	41.6	3271	30705	43.2	21.5	9.3*	97	81.0	17.0	34.6	45.0	8.6	44.7	3256	30162				
GREAT LAKES 5368V3PRIB	103	P500	1.2,3	36.8	25.0	8.7	98	81.7	20.9	40.4	54.9	7.7	39.0	3264	28557	46.9	19.4	9.6*	97	84.0	19.0	37.6	57.5	8.1	44.3	3403	32489				
HYLAND SEEDS HLS8477	98	P250	1.2,3,4,6	40.5	22.9	8.9	98	82.0	19.3	38.1	52.5	8.4	40.3	3296	29196	51.5	17.6	9.0	98	81.4	18.4	36.8	49.5	9.4	41.7	3259	29318				
HYLAND SEEDS HLSR35	98	P250	1	40.3	20.9	7.9	99	80.1	22.6	42.7	53.3	8.2	35.8	3142	25135	52.8	15.1	8.0	99	80.7	21.4	41.7	53.6	8.4	39.2	3165	26492				
MYCOGEN TME20413	96	C250	1.2,4,6	42.1	21.9	8.7	99	81.9	20.0	39.3	53.8	8.3	40.4	3284	29135	55.0	16.4	9.0	100	82.6	19.7	37.8	54.0	9.1	44.3	3316	29687				
NK Brand N29T-3111 Brand	92	C250	1.2,3,4,6	49.8	17.4	8.3	98	81.6	19.1	36.9	49.9	8.1	43.6	3288	27830	65.1	13.0	8.5	96	81.6	17.7	35.3	47.8	8.8	45.8	3284	27755				
NK Brand N45P-3011A	101	C250	1.2,3,4	38.0	24.9	9.2*	97	82.2	19.0	37.5	52.6	7.9	39.3	3319	30691	47.6	20.5	9.7**	92	83.2	16.5	34.0	50.6	8.3	41.6	3391	34499				
NuTech 3A-496™	96	C250	1	36.4	23.5	8.1	98	79.9	21.4	42.7	52.9	7.9	35.7	3117	25622	46.2	16.2	7.5	99	79.7	19.5	40.8	50.2	8.7	41.4	3120	24389				
NuTech 5N-001™	101	C250	1.2,3,4	40.7	23.7	9.1*	97	82.3	19.0	37.9	53.3	7.9	41.3	3321	30280	53.8	17.2	9.2*	96	81.6	18.7	38.5	52.3	8.3	42.2	3263	29870				
NuTech 5N-197™	97	C250	1.2,3,4	41.9	22.4	8.8	100	81.3	18.6	37.7	50.2	7.9	41.4	3264	28666	59.5	15.6	9.3*	100	83.3	14.7	33.0	49.6	8.9	48.3	3408	31780				
NuTech 5N-803™	101	C250	1.2,3,4	36.6	25.1	8.8	95	82.5	19.6	38.7	54.8	7.5	40.2	3326	29246	46.7	19.5	9.1*	94	83.4	18.8	37.2	55.3	7.8	43.3	3373	30723				
NuTechG2 GENETICS 3D-802™	102	C250	1.2,3,4	36.8	24.6	8.7	96	81.6	18.0	37.6	50.5	7.7	42.1	3329	29489	46.2	19.8	9.1*	94	82.6	15.2	31.6	44.8	8.5	46.4	3376	30819				
NuTechG2 GENETICS 5H-202™	102	C250	1.2,4	40.5	24.5	9.2*	100	81.2	19.6	38.9	51.4	7.9	41.6	3247	30388	44.6	17.1	9.4*	99	82.9	16.4	32.1	46.9	8.4	47.3	3393	31990				
NuTechG2 GENETICS 5H-502™	102	C250	1.2,4	37.6	23.9	8.8	93	82.5	19.2	37.4	53.3	8.0	41.7	3339	30241	44.6	20.8	9.3*	88	84.2	17.2	34.5	54.1	8.1	45.8	3447	34900				
PIONEER P0210YXR	102	C250	1.2,3,4,6	36.6	25.6	8.9	99	81.5	19.9	38.5	51.8	8.1	40.1	3270	29599	46.5	20.4	9.4*	99	82.2	17.7	35.2	49.3	8.4	44.4	3320	31333				
PIONEER P0216AM	102	P1250	1.2,4,6	36.8	26.1	9.0*	99	82.4	19.1	37.3	52.4	7.8	41.4	3329	30071	49.0	19.1	9.2*	99	82.8	16.2	33.0	47.8	8.3	47.8	3378	31132				
PIONEER P0255AMXT	102	C250	1.2,3,4,6	39.1	23.2	8.8	98	81.2	19.7	38.3	50.6	8.1	39.4	3247	29250	49.5	18.6	9.2*	98	81.4	16.8	34.8	46.5	8.3	44.9	3279	30180				
PIONEER P0675AMXT	96	C250	1.2,3,4,6	43.8	20.9	8.7	98	82.0	19.8	37.0	50.9	8.5	41.4	3236	29229	55.9	15.9	8.9	98	81.5	20.5	38.5	51.9	9.3	41.1	3241	30130				
PIONEER P0754VHR	97	C250	1.2,4,6	43.1	20.3	8.4	100	79.6	19.6	39.2	47.8	8.4	39.5	3148	26521	55.2	15.8	8.7	99	79.5	19.2	38.3	54.3	9.0	41.3	3134	27261				
RENK RK302GTCLLBL	88	C250	1.2,4,6	47.9	19.5	8.9	95	83.3	17.7	34.8	52.1	8.1	45.0	3407	30299	62.5	14.0	8.7	96	85.1	16.5	32.5	54.1	8.6	48.9	3188	30707				
RENK RK4925STX	92	P500	1.2,3,4,6	41.3	19.8	8.1	85	83.4	17.9	35.0	52.3	8.2	43.8	3410	27522	50.9	17.2	9.0	75	84.9	15.7	29.8	49.5	8.6	49.1	3532	31584				
RENK RK565GTCLLRWBL	99	C250	1.2,3,4,6	42.8	22.4	8.8	100	81.7	18.2	36.4	49.3	7.5	40.0	3281	29569	59.4	14.5	8.6	99	82.5	15.7	32.5	46.0	8.5	43.3	3351	28809				
SPECTRUM 4130	90	C250	Conv.	46.5	20.5	9.1*	97	82.2	19.8	38.2	53.2	8.1	41.4	3308	30195	58.5	15.2	8.9	90	82.1	21.0	40.3	55.3	8.4	40.4	3257	28800				
AVERAGE				40.8	22.5	8.7	97.5	81.8	19.3	37.9	51.7	8.0	41.0	3290	28688	52.7	17.2	8.9	96.2	82.3	17.7	35.4	49.7	8.5	44.5	3327	29785				
HIGHEST				52.2	26.9	9.4	99.7	83.4	22.6	42.7	54.9	8.5	45.0	3410	30705	67.8	21.5	9.7	100.0	85.1	21.4	41.7	57.5	9.4	49.1	3532	34499				
LOWEST				34.7	17.1	7.3	84.7	79.6	17.7	34.8	47.8	7.5	35.7	3117	24371	42.0	12.8	7.5	75.3	79.5	14.7	29.8	41.8	7.8	39.2	3120	24389				
CV (%)				6.2	7.8	6.7	4.2	2.7	8.8	6.6	9.0	5.3	7.4	4	7	6.4	6.8	5.8	5.2	3.1	8.5	6.4	13.0	5.9	6.8	5	7				
LSD (5%)				1.7	1.2	0.4	2.7	1.5	1.1	1.7	3.2	0.3	2.1	95	1301	3.9	1.4	0.6	5.8	3.0	1.8	2.7	10.8	0.6	3.6	182	2360				

BRAND / HYBRID	RM	TRT	TRAIT	TRIAL AVERAGE														IOSCO													
				YIELD							% QUALITY							YIELD							% QUALITY						
				%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MILK	MK/A	%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MILK	MK/A				
DAIRYLAND SEED HI DF-3197-7	97	C250	1.2	39.5	22.0	8.4*	99	82.6	19.7	39.1	55.3	8.4	38.8	3344	28205	44.5	21.3	8.7**	100	83.0	17.7	36.8	53.5	9.1	40.4	3388	29526				
DAIRYLAND SEED HI DF-3290-9	90	C250	1.2,3,4	43.6	19.3	8.1	98	82.4	19.3	36.9	52.3	8.3	40.4	3372	27372	48.5	17.2	7.7	99	83.8	16.8	34.7	53.0	9.2	41.8	3450	26601				
DAIRYLAND SEED HI DF-3396SSX	96	C250	1.2,3,4,6	39.5	20.9	8.0	98	83.5																							

2013																												
Memominee - Late						Osceola																						
BRAND/HYBRID	RM	TRT	TRAIT	YIELD			% QUALITY			MILK 2006	YIELD			% QUALITY			MILK 2006											
				%DM	G/T/A	DT/A	%STD	IVD	ADF		NDF	NDFFD	CP	STR	MK/A	IVD		ADF	NDF	NDFFD	CP	STR	MK/A					
DAIRYLAND SEED HI DF-3197-7	97	C250	1,2	31.2	28.5	9.1	97	81.2	23.8	43.1	56.5	7.2	36.1	3228	29369	40.4	21.1	8.4	100	82.1	19.5	37.4	52.1	8.1	42.5	3311	29136	
DAIRYLAND SEED HI DF-3290-9	90	C250	1,2,3,4	36.8	23.2	8.5	99	78.3	27.5	43.6	51.0	6.7	33.1	3154	27832	43.8	21.0	9.2	100	82.2	18.2	34.6	48.6	8.0	44.8	3344	29264	
DAIRYLAND SEED HI DF-3396SSX	96	C250	1,2,3,4,6	30.7	26.7	8.2	98	80.9	22.1	43.1	55.7	7.6	34.8	3207	26125	40.0	22.5	9.0	100	83.9	16.2	33.0	51.3	8.5	44.2	3456	30960	
DAIRYLAND SEED HI DF-3702-9	104	C250	1,2,3,4	26.9	31.0	8.5	100	78.7	23.6	44.6	52.2	7.5	32.8	3069	26594	35.3	23.6	8.2	100	84.5	16.8	33.4	53.6	7.6	44.7	3493	29908	
DYNAMRO D31VP31	91	P500	1,2,3	36.1	20.7	7.5	100	81.4	21.2	40.3	53.8	7.3	40.5	3264	24291	43.1	18.9	8.1	97	84.0	15.4	30.9	48.0	8.1	47.8	3477	28155	
GET101lys	101		Conv.	23.5	29.5	7.0	97	79.9	24.3	47.2	57.5	7.8	27.8	3108	21588	36.3	21.1	7.6	95	83.8	18.0	36.0	54.9	7.4	42.5	3422	26022	
GOLDEN HARVEST G01P52-3011A	101	C250	1,2,3,4	29.2	28.5	8.3	99	80.8	20.0	49.1	50.9	7.6	37.6	3240	26813	37.4	20.0	9.0	99	85.0	16.0	32.3	53.6	8.4	45.1	3527	31571	
GOLDEN HARVEST G92143-3111	92	C250	1,2,3,4,6	43.9	18.2	8.0	97	80.4	21.9	41.1	52.3	7.8	38.9	3197	25502	45.0	20.3	9.0	99	82.3	17.1	35.2	49.9	8.1	45.8	3344	28438	
GREAT LAKES 48795TXRIB	98	P500	1,2,3,6	29.9	26.8	8.0	100	81.1	21.5	42.5	55.6	7.4	37.0	3225	25286	38.4	23.4	8.9	96	83.6	16.3	35.4	53.6	7.6	43.4	3418	30393	
GREAT LAKES 50155TXRIB	100	P500	1,2,3,6	28.7	27.3	7.8	99	78.7	25.0	45.1	52.9	7.0	29.8	3026	22309	37.7	23.5	8.9	100	84.4	17.1	34.0	54.0	7.6	46.6	3478	29401	
GREAT LAKES 52835TXRIB	102	P500	1,2,3,6	27.9	31.4	8.7	99	80.9	20.2	40.1	52.4	7.4	37.8	3238	28255	36.6	27.8	10.2	**	83.1	18.9	36.8	51.5	7.7	42.4	3319	33698	
GREAT LAKES 5368V3PRIB	103	P500	1,2,3	26.2	30.6	8.4	100	78.0	24.9	47.2	53.5	7.8	29.7	3006	24116	34.7	24.9	8.6	98	83.1	18.7	36.4	53.7	7.4	42.9	3383	29064	
HYLAND SEEDS HLS8477	98	P250	1,2,3,4,6	31.8	27.2	8.6	100	81.5	21.2	41.9	55.9	7.2	36.7	3255	28070	38.2	24.1	9.0	96	83.0	18.2	35.7	52.3	8.6	42.4	3374	30199	
HYLAND SEEDS HLSR35	98	P250	1	29.5	27.9	8.1	99	79.7	23.4	45.2	55.2	7.6	32.3	3120	25286	38.7	19.7	7.5	100	79.8	23.2	41.2	51.1	8.5	36.1	3142	30626	
MYCOGEN IMF20413	96	C250	1,2,4,6	30.5	28.5	8.7	100	79.8	22.8	45.8	56.0	7.4	31.5	3119	27025	40.7	21.0	8.5	97	83.4	17.5	34.1	51.4	8.5	45.4	3417	30693	
NK Brand IN29T-3111 Brand	92	C250	1,2,3,4,6	41.8	18.9	7.9	99	81.1	21.6	40.7	53.4	7.5	39.8	3243	27085	42.4	20.3	8.6	99	82.1	18.2	34.7	48.6	8.1	45.3	3337	28650	
NK Brand N45P-3011A	101	C250	1,2,3,4	30.3	27.9	8.4	100	80.6	22.9	42.0	53.9	7.5	35.4	3202	26964	36.2	26.3	9.6	**	100	82.9	17.5	36.7	53.4	8.0	40.9	3363	30611
NuTech 3A-496™	96	C250	1	27.0	29.6	8.0	97	77.1	26.5	50.6	54.8	7.1	24.3	2863	22768	36.1	24.7	8.8	99	83.0	18.1	36.8	53.7	8.1	41.5	3368	29710	
NuTech 5N-001™	101	C250	1,2,3,4	29.3	30.2	8.8	100	81.2	21.9	42.2	55.3	7.1	36.3	3233	28531	39.1	23.8	9.3	94	84.3	16.4	33.0	52.3	8.1	45.5	3478	32437	
NuTech 5N-197™	97	C250	1,2,3,4	30.1	27.7	8.3	99	78.9	22.7	44.0	52.1	7.1	32.7	3080	25636	36.1	24.0	8.7	100	81.7	18.5	35.9	49.1	7.7	43.2	3304	28581	
NuTech 5N-803™	101	C250	1,2,3,4	28.5	29.0	8.1	96	80.4	21.7	43.4	54.9	7.4	33.8	3175	25576	34.7	26.9	9.2	96	83.8	18.3	35.5	54.2	7.4	43.7	3428	31440	
NuTech/G2 GENETICS 3D-802™	102	C250	1,2,3,4	28.3	29.2	8.2	100	78.6	21.3	46.4	53.6	7.2	35.5	3176	27298	35.8	25.0	8.9	92	83.7	17.6	34.8	53.2	7.5	44.5	3433	30389	
NuTech/G2 GENETICS 5H-202™	102	C250	1,2,4	29.3	30.1	8.9	100	78.5	24.2	45.7	53.0	7.6	34.0	3049	28524	36.8	26.5	9.3	100	82.2	18.1	39.0	54.3	7.7	43.6	3300	30651	
NuTech/G2 GENETICS 5H-502™	102	C250	1,2,4	31.3	27.3	8.5	95	80.3	22.3	45.3	53.7	7.8	35.9	3181	27131	36.9	23.7	8.7	97	83.1	18.1	35.2	52.1	8.2	43.4	3388	29542	
PIONEER P0210YXR	102	C250	1,2,3,4,6	26.9	30.9	8.1	100	79.2	24.3	45.9	54.7	8.1	31.9	3082	25064	36.3	25.4	9.2	99	83.3	17.7	34.4	51.4	7.8	44.1	3408	32400	
PIONEER P0216AM	102	P1250	1,2,4,6	27.8	32.2	8.9	99	80.3	23.2	44.4	55.7	7.3	32.1	3159	28134	33.5	27.0	9.0	100	84.0	17.9	34.6	53.8	7.8	44.2	3449	30948	
PIONEER P0255AMXT	102	C250	1,2,3,4,6	30.4	25.9	7.9	96	79.4	24.3	44.5	53.7	7.6	31.2	3096	24987	43.2	25.1	9.4	**	99	82.8	18.1	35.7	51.6	8.3	42.0	3364	32273
PIONEER P075AMXT	96	C250	1,2,3,4,6	32.2	24.6	7.9	100	81.1	21.8	40.8	53.6	7.7	38.5	3240	25983	42.2	22.2	9.4	**	96	83.3	17.1	31.6	47.2	8.4	44.8	3228	31974
PIONEER P915HYHR	97	C250	1,2,4,6	32.7	24.2	7.9	100	77.9	22.0	43.1	48.8	7.6	35.6	3039	24085	41.3	20.9	8.6	100	83.3	17.7	36.3	48.4	8.7	41.7	3273	28236	
RENK RK302GTCBLLBL	88	C250	1,2,4,6	38.8	24.2	9.4	**	80.8	20.4	39.4	51.2	7.5	40.5	3236	30374	42.3	20.3	8.6	90	84.0	16.4	32.6	51.0	8.1	45.6	3467	29817	
RENK RK492SSTX	92	P500	1,2,3,4,6	33.7	22.9	7.7	93	82.2	20.4	40.1	55.7	6.5	39.1	3312	25581	39.2	19.2	7.5	86	83.1	17.6	35.1	51.7	8.5	43.3	3386	25400	
RENK RK565GTCBLLRWBL	99	C250	1,2,3,4,6	31.6	29.2	9.2	**	81.1	21.7	42.6	55.5	7.6	34.9	3226	29754	37.3	23.6	8.7	100	81.7	17.1	34.3	46.4	7.7	41.9	3268	30144	
SPECTRUM 4130	90	C250	Conv.	39.3	25.1	9.7	**	81.7	20.7	40.1	54.4	7.9	39.5	3279	31900	41.6	21.4	8.8	100	82.9	17.7	34.1	49.8	8.0	44.5	3387	29886	
AVERAGE				31.3	27.1	8.3	98.7	80.0	22.6	43.3	53.9	7.4	34.7	3161	26443	38.6	23.1	8.8	97.7	83.0	17.7	35.1	51.6	8.0	43.6	3380	29837	
HIGHEST				43.9	32.2	9.7	100.0	82.2	27.5	50.6	57.5	8.1	40.5	3312	31900	45.0	21.8	10.2	100.0	85.0	23.2	41.2	54.9	8.7	47.8	3527	33698	
LOWEST				23.5	18.2	7.0	93.0	77.1	20.0	39.1	48.8	6.5	24.3	2863	21588	33.5	18.9	7.5	85.7	79.8	15.4	30.9	46.4	7.4	36.1	3142	23626	
CV (%)				6.0	7.6	6.9	3.2	3.0	9.1	7.1	7.5	5.7	9.5	4	8	5.6	8.1	7.4	4.0	1.8	8.1	5.9	5.4	4.1	6.3	4	6	
LSD (5%)				2.2	2.4	0.7	3.7	2.8	2.4	3.6	6.8	0.5	3.9	1.66	2378	2.5	2.2	0.8	4.5	1.8	1.7	2.4	4.6	0.6	3.3	1.46	2199	

2 Year Averages 2013 - 2012																												
Memominee - Late						Osceola																						
BRAND/HYBRID	RM	TRT	TRAIT	YIELD			% QUALITY			MILK 2006	YIELD			% QUALITY			MILK 2006											
				%DM	G/T/A	DT/A	%STD	IVD	ADF		NDF	NDFFD	CP	STR	MK/A	IVD		ADF	NDF	NDFFD	CP	STR	MK/A					
DAIRYLAND SEED HI DF-3197-7	97	C250	1,2	34.7	21.8	7.5	97	82.3	22.0	42.3	58.3	8.3	35.5	3311	24539	39.3	22.8	9.0	**	100	82.4	19.4	38.3	54.0	7.8	40.5	3334	30550
DAIRYLAND SEED HI DF-3290-9	90	C250	1,2,3,4	39.8	18.5	7.2	97	80.0	24.6	42.7	53.3	7.6	34.4	3229	23728	42.7	22.2	9.5	**	99	83.5	16.6	33.4	50.5	7.9	45.1	3438	31787
DAIRYLAND SEED HI DF-3396SSX	96	C250	1,2,3,4,6	35.4	20.4	6.9	95	82.3	22.2	44.3	59.9	8.8	31.7	3287	22668	38.												

ALGER, DELTA & MENOMINEE (EARLY) COUNTY SILAGE TRIALS (100 Day and Earlier)

TABLE 10.

		TRIAL AVERAGE																										
		YIELD						% QUALITY						MILK 2006														
		%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MK/T	MK/A	ALGER		MILK 2006												
														IVD	ADF	NDF	NDFD	CP	STR	MK/T	MK/A							
2013																												
BRAND / HYBRID	RM	TRT	TRAIT	23.4	27.9	6.5	90	78.8	25.3	49.7	57.3	8.3	26.6	30.29	20044	22.2	25.0	5.4	87	78.5	24.7	53.5	59.8	8.4	23.6	3000	16288	
GEI 1011ys	104	Conv.	0	37.1	18.3	6.8	93	79.6	23.8	45.0	54.7	7.8	33.8	31.25	21056	36.1	16.4	5.9	95	80.0	24.1	45.9	56.4	7.6	31.0	3164	18560	
GREAT LAKES 4282VT3PRIB	92	1,2,3	P500	31.4	23.2	7.3*	98	80.3	21.7	42.7	53.7	7.7	35.3	31.87	23012	30.3	22.0	6.6	99	80.4	23.2	45.8	57.2	7.3	30.5	3186	21110	
GREAT LAKES 4457VT3PRIB	94	1,2,3	P500	28.1	25.3	7.1	97	80.4	23.3	45.3	56.5	7.7	31.7	31.67	21972	26.7	24.0	6.4	93	79.6	25.9	51.3	60.2	7.5	24.4	3085	17971	
GREAT LAKES 4879STXRIB	98	1,2,3,6	P500	28.8	25.2	7.2	99	80.3	23.1	44.4	55.5	7.5	33.7	31.70	23447	26.8	24.7	6.6	100	79.6	24.3	47.9	57.4	7.2	29.1	3124	22051	
GREAT LAKES 5015STXRIB	100	1,2,3,6	P500	29.3	22.9	6.7	95	80.0	23.1	45.3	55.9	8.2	31.6	31.45	21642	28.1	20.4	5.7	84	79.3	23.7	48.8	57.6	8.1	27.6	3093	17710	
MYCOGEN IMF2L418	94	1,2,3,4,8	C250	30.2	25.1	7.5*	95	80.2	23.2	44.2	55.0	7.6	34.5	31.65	23182	27.5	27.6	**	100	80.3	24.1	47.6	58.6	7.3	29.7	3162	24016	
MYCOGEN IMF2Q413	96	1,2,4,6	C250	27.2	27.2	7.3*	98	77.6	26.1	50.7	55.7	7.7	25.3	29.53	21691	26.0	24.3	6.3	98	76.2	27.2	55.1	56.8	7.5	21.0	2866	17986	
NuTech 3A-496™	96	1	C250	34.2	21.9	7.4*	96	80.4	22.5	42.4	53.7	7.6	37.0	31.98	24342	34.9	16.9	6.1	88	81.8	21.3	42.5	57.1	7.2	35.1	3296	21230	
NuTech 5B-290™	90	1,2,4	C250	30.6	23.7	7.3*	99	79.8	23.4	44.1	54.0	7.7	34.4	31.44	22912	29.4	21.7	6.4	100	78.6	25.1	48.4	55.7	7.6	29.1	3060	19444	
NuTechG2 GENETICS 3F-198™	98	1,2,4	C250	30.7	22.0	6.9	95	79.9	23.1	44.0	54.2	7.8	33.9	31.51	21691	29.3	19.0	5.7	90	78.9	24.9	48.5	56.5	7.6	27.8	3078	17465	
NuTechG2 GENETICS 5H-399™	99	1,2,4	C250	34.5	18.8	6.5	98	79.4	23.3	44.3	53.5	7.7	34.9	31.24	20309	34.9	16.5	5.9	100	77.6	26.0	50.1	55.3	7.4	28.9	2995	16946	
NuTechG2 GENETICS 5X-890™	90	1,2,3,4	C250	32.7	21.8	7.2	94	80.5	22.6	42.5	54.0	8.2	35.8	31.25	23436	31.3	22.3	7.1*	84	80.5	23.1	44.6	56.3	8.3	32.0	3199	22716	
PIONEER P0675AMXT	96	1,2,3,4,6	C250	32.1	22.3	7.1	99	78.3	23.5	45.9	52.6	8.0	32.4	30.43	21084	30.2	21.8	6.4	99	77.0	24.6	50.2	54.3	8.3	26.3	2956	18770	
PIONEER P9754YHR	97	1,2,4,6	C250	34.3	22.4	7.7**	96	82.0	20.1	40.3	55.3	7.7	38.2	33.07	26779	34.8	19.0	6.6	94	81.0	22.3	44.3	57.0	7.4	32.9	3233	22397	
SPECTRUM 4130	90	Conv.	C250	31.0	23.2	7.1	96.2	79.8	23.2	44.7	54.8	7.8	33.3	31.40	22440	29.9	21.4	6.3	94.0	79.3	24.5	48.3	57.1	7.6	28.6	3100	19644	
AVERAGE				37.1	17.9	7.7	99.3	82.0	26.1	50.7	57.3	8.3	38.2	33.07	26779	36.1	27.4	7.6	100.0	81.8	27.4	55.1	60.2	8.4	35.1	3296	24016	
HIGHEST				23.4	18.3	6.5	90.1	77.6	20.1	40.3	52.6	7.5	25.3	29.53	20044	22.2	16.4	5.4	83.7	76.2	21.3	42.5	54.3	7.2	21.0	2866	16288	
LOWEST				5.9	7.1	8.2	89	2.3	7.2	5.8	4.9	6.0	7.7	4	6	6.4	7.9	9.0	13.6	2.3	5.9	5.8	4.0	6.2	8.5	4	7	
CV (%)				1.2	1.1	0.4	5.8	1.3	1.1	1.8	1.8	0.3	1.7	82	981	2.3	2.0	0.7	15.2	2.2	1.7	3.4	3.9	0.6	2.9	145	1541	
LSD (5%)																												
		Delta																										
		YIELD						% QUALITY						MILK 2006														
		%DM	GT/A	DT/A	%STD	IVD	ADF	NDF	NDFD	CP	STR	MK/T	MK/A	MENOMINEE - EARLY		MILK 2006												
														IVD	ADF	NDF	NDFD	CP	STR	MK/T	MK/A							
2013																												
BRAND / HYBRID	RM	TRT	TRAIT	23.7	28.3	6.7	91	77.6	25.1	50.4	55.6	8.5	25.4	29.25	19585	24.2	30.4	7.4	92	80.3	23.3	45.2	56.5	8.0	30.7	3163	24259	
GEI 1011ys	104	Conv.	0	35.8	17.6	6.3	94	76.1	28.3	51.2	53.4	8.2	28.1	28.38	17127	39.4	20.8	8.2	92	82.8	19.0	37.8	54.3	7.6	42.3	3373	27481	
GREAT LAKES 4282VT3PRIB	92	1,2,3	P500	31.9	22.2	7.3*	96	79.9	20.9	41.2	51.1	8.6	37.7	31.49	22933	31.9	25.3	8.1	99	80.7	21.1	41.0	52.8	7.3	37.6	3225	24993	
GREAT LAKES 4457VT3PRIB	94	1,2,3	P500	28.4	25.0	7.1*	100	79.8	23.0	43.7	53.7	8.2	33.1	31.21	22152	29.1	27.0	7.8	98	81.9	21.0	40.9	55.7	7.4	37.6	3294	25794	
GREAT LAKES 4879STXRIB	98	1,2,3,6	P500	29.0	22.5	6.4	98	79.2	23.9	44.2	52.9	8.2	33.4	30.82	19709	30.6	28.3	8.7*	100	82.0	21.2	41.1	56.3	7.1	38.7	3303	28582	
GREAT LAKES 5015STXRIB	100	1,2,3,6	P500	30.3	22.4	6.8*	100	80.3	22.6	42.7	54.0	8.7	34.1	31.60	21553	29.5	26.0	7.7	100	80.5	23.0	44.5	56.1	7.7	33.1	3181	25663	
MYCOGEN IMF2L418	94	1,2,3,4,8	C250	30.6	22.2	6.6	100	78.9	23.5	43.5	51.5	8.1	34.6	30.76	20399	32.4	25.5	8.2	85	81.3	22.0	41.5	54.9	7.4	39.2	3256	25132	
MYCOGEN IMF2Q413	96	1,2,4,6	C250	27.1	25.8	7.0*	100	77.8	26.1	49.2	54.8	8.3	24.8	29.38	20491	28.6	31.5	8.7*	95	78.8	24.9	47.8	55.6	7.2	30.2	3054	26595	
NuTech 3A-496™	96	1	C250	33.2	22.3	7.4**	100	81.3	20.0	37.6	50.3	8.4	41.0	32.68	25436	34.4	26.4	8.7*	100	78.2	26.3	47.2	53.8	7.1	35.0	3029	26360	
NuTech 5B-290™	90	1,2,4	C250	32.3	22.0	7.1*	98	79.8	23.0	42.1	51.2	8.2	36.3	31.41	22229	30.1	27.5	8.4	99	80.9	22.0	41.7	54.2	7.2	37.8	3222	27064	
NuTechG2 GENETICS 3F-198™	98	1,2,4	C250	30.8	21.0	6.5	97	78.8	23.7	43.6	51.3	8.6	34.1	30.66	19867	32.1	26.0	8.4	100	82.0	20.8	39.9	54.8	7.3	39.8	3310	27741	
NuTechG2 GENETICS 5H-399™	99	1,2,4	C250	33.2	17.8	5.9	94	78.3	23.4	43.3	49.7	8.7	35.4	30.39	17930	35.5	22.0	7.8	100	82.4	20.4	39.5	55.5	7.2	40.4	3340	26049	
NuTechG2 GENETICS 5X-890™	90	1,2,3,4	C250	31.7	19.7	6.3	100	79.7	22.7	41.5	51.1	9.0	36.6	31.37	19606	35.1	23.3	8.2	99	81.2	22.0	41.4	54.5	7.4	38.8	3250	27987	
PIONEER P0675AMXT	96	1,2,3,4,6	C250	32.5	20.4	6.6	100	78.5	23.6	44.2	51.4	8.4	34.4	30.42	20127	33.5	24.7	8.3	98	79.3	22.4	43.2	52.2	7.3	36.4	3131	24356	
PIONEER P9754YHR	97	1,2,4,6	C250	33.9	20.8	7.0*	95	81.9	19.1	37.9	52.2	8.4	40.4	32.97	24173	34.3	27.5	9.4**	100	83.2	18.9	38.7	56.7	7.4	41.2	3392	33767	
SPECTRUM 4130	90	Conv.	C250	30.9	22.0	6.7	97.3	79.2	23.3	43.7	52.3	8.4	40.0	30.85	20888	32.0	26.2	8.3	97.1	81.0	21.9	42.1	54.9	7.4	37.2	3236	26788	
AVERAGE				35.8	28.3	7.4	100.0	81.9	28.3	51.2	55.6	9.0	41.0	32.97	25436	39.4	31.5	9.4	100.0	83.2	26.3	47.8	56.7	8.0	42.3	3392	33767	
HIGHEST				23.7	17.6	5.9	91.0	76.1	19.1	37.6	49.7	8.1	24.8	28.38	17127	24.2	20.8	7.4	85.4	78.2	18.9	37.8	52.2	7.1	30.2	3029	24259	
LOWEST				4.9	5.7	7.2	3.2	2.4	6.8	5.3	6.1	5.5	6.6	4	7	6.3	7.3	8.1	7.1	2.2	8.7	6.3	4.6	6.2	7.7	4	6	
CV (%)				1.8	1.5	0.6	3.7	2.3	1.9	2.8	5.5	0.6	2.7	146	1839	2.4	2.3	0.8	8.2	2.1	2.3	3.2	4.3	0.5	3.4	142	1950	
LSD																												

HANDY Bt TRAIT TABLE

Bt Trait Table November 1, 2013	Bt protein(s)	Insects controlled (bold) or suppressed (<i>italics</i>) Above-ground ----- In soil	Herbicide tolerance	Refuge %, location in the MIDWEST
Agrisure Trait Family				
Agrisure CB/LL	Cry1Ab	ECB <i>CEW FAW SB</i>	---	LL 20% within ½ mile
Agrisure GT/CB/LL	Cry1Ab	ECB <i>CEW FAW SB</i>	---	GT LL 20% within ½ mile
Agrisure RW	mCry3A	---	CRW	-- 20% in field/adjacent
Agrisure GT/RW	mCry3A	---	CRW	GT 20% in field/adjacent
Agrisure CB/LL/RW	Cry1Ab mCry3A	ECB <i>CEW FAW SB</i>	CRW	LL 20% in field/adjacent
Agrisure 3000GT	Cry1Ab mCry3A	ECB <i>CEW FAW SB</i>	CRW	GT LL 20% in field/adjacent
Agrisure Artesian 3011A	Cry1Ab mCry3A	ECB <i>CEW FAW SB</i>	CRW	GT LL 20% in field/adjacent
Agrisure Viptera 3110	Cry1Ab Vip3A	BCW CEW ECB FAW WBC SB	---	GT LL 20% within ½ mile
Agrisure Viptera 3111	Cry1Ab Vip3A mCry3A	BCW CEW ECB FAW WBC SB	CRW	GT LL 20% in field/adjacent
Agrisure 3122 E-Z Refuge	Cry1Ab Cry1F mCry3A Cry34/35Ab1	BCW ECB FAW WBC CEW SB	CRW	GT 5% in the bag
Agrisure Viptera 3220 E-Z Refuge	Cry1Ab Cry1F Vip3A	BCW CEW ECB FAW WBC SB	---	GT 5% in the bag
Agrisure Duracade 5122 E-Z Refuge	Cry1Ab Cry1F mCry3A eCry3.1Ab	BCW ECB FAW WBC CEW SB	CRW	GT 5% in the bag
Agrisure Duracade 5222 E-Z Refuge	Cry1Ab Cry1F Vip3A mCry3A eCry3.1Ab	BCW CEW ECB FAW WBC SB	CRW	GT 5% in the bag
Herculex Trait Family				
Herculex I (HX1)	Cry1F	BCW ECB FAW WBC CEW SB	---	LL RR2 (most) 20% within ½ mile
Herculex RW (HXRW)	Cry34/35Ab1	---	CRW	20% in field/adjacent
Herculex XTRA (HXX)	Cry1F Cry34/35Ab1	BCW ECB FAW WBC CEW SB	CRW	20% in field/adjacent
Optimum Trait Family				
Optimum AcreMax (AM-R)	Cry1F Cry1Ab	BCW ECB FAW WBC CEW SB	---	RR2 5% in the bag
Optimum AcreMax1 (AM1)	Cry1F Cry34/35Ab1	BCW ECB FAW WBC CEW	CRW	LL RR2 10% in the bag (<i>CRW</i>) & 20% - ½ mile (<i>ECB</i>)
Optimum AcreMax Rootworm (AMRW-R)	Cry34/35Ab1	---	CRW	RR2 10% in the bag
Optimum AcreMax Xtra (AMX-R)	Cry1F Cry1Ab Cry34/35Ab1	BCW ECB FAW WBC CEW SB	CRW	RR2 10% in the bag
Optimum AcreMax Xtreme (AMXT-R)	Cry1F Cry1Ab mCry3A Cry34/35Ab1	BCW ECB FAW WBC CEW SB	CRW	RR2 5% in the bag
Optimum Intrasect	Cry1F Cry1Ab	BCW ECB FAW WBC CEW SB	---	LL RR2 5% within ½ mile
Optimum Intrasect Xtra	Cry1F Cry1Ab Cry34/35Ab1	BCW ECB FAW WBC CEW SB	CRW	LL RR2 20% in field/adjacent
Optimum Intrasect XTreme	Cry1F Cry1Ab mCry3A Cry34/35Ab1	BCW ECB FAW WBC CEW SB	CRW	LL RR2 5% in field/adjacent
Optimum TRIssect	Cry1F mCry3A	BCW ECB FAW WBC CEW SB	CRW	LL RR2 20% in field/adjacent
YieldGard / Genuity Trait Family				
YieldGard VT Triple	Cry1Ab Cry3Bb1	ECB <i>CEW FAW SB</i>	CRW	RR2 20% in field/adjacent
Genuity VT Double PRO	Cry1A.105 Cry2Ab2	CEW ECB FAW	---	RR2 20% within ½ mile
Genuity VT Triple PRO	Cry1A.105 Cry2Ab2 Cry3Bb1	CEW ECB FAW	CRW	RR2 20% in field/adjacent
Genuity SmartStax	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	BCW CEW ECB FAW SB WBC	CRW	LL RR2 5% in field/adjacent
Genuity VT Double PRO RIB Complete (GENVT2P)	Cry1A.105 Cry2Ab2	CEW ECB FAW	---	RR2 5% in the bag
Genuity VT Triple PRO RIB Complete (GENVT3P)	Cry1A.105 Cry2Ab2 Cry3Bb1	CEW ECB FAW	CRW	RR2 10% in the bag
Genuity SmartStax RIB Complete	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	BCW CEW ECB FAW SB WBC	CRW	LL RR2 5% in the bag
Refuge Advanced Trait Family				
Refuge Advanced Powered by SmartStax	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	BCW CEW ECB FAW SB WBC	CRW	LL RR2 5% in the bag

Company Index

Introduction

Weather

Corn Grain Performance Trials

Zone 1 Grain Early - 107 Day and Earlier

Zone 1 Grain Late - 108 Day and Later

Zone 2 Grain Early - 101 Day and Earlier

Zone 2 Grain Late - 102 Day and Later

Zone 3 Grain Early - 97 Day and Earlier

Zone 3 Grain Late - 98 Day and Later

Zone 4 Grain - 98 Day and Earlier

Zone 5 Grain - 93 Day and Earlier

Corn Grain Agronomics

Conventional - 101 Day and Earlier

Conventional - 102 Day and Later

Corn Grain Hybrid Index

Corn Silage Performance Trials

Corn Silage Agronomics

Corn Silage Hybrid Index

Zone 1 Silage Early - 110 Day and Earlier

Zone 1 Silage Late - 111 Day and Later

Zone 2 - 3 Silage Early - 104 Day and Earlier

Zone 2- 3 Silage Late - 105 Day and Later

Zone 4 Silage - 104 Day and Earlier

Zone 5 Silage - 100 Day and Earlier

THANK YOU TO OUR FARM COOPERATORS:

ZONE 1

Baker-Ladd Farms, Blaine Baker, Clayton
George Brossman, Vandalia
Kyle Huff, Coldwater
OSU NW Experiment Station, Richard Minyo
Hoytville, Ohio
Mathew Talladay, Milan

ZONE 2

Fred Gross Farms -
Peggy Gross & Dick Birchmeier, New Lothrop
Jorgensens Farm Elevator
Jerry Jorgensen & Mike Turner, Williamston
Paul Lettinga, Wayland
MSU Agronomy Farm, Brian Graff, East Lansing
Jim & John Schipper, Martin

ZONE 3

AgBio Research Station, Bruce Sackett, Entrican
Robert Oshe, Custer
Sacket Farms, Larry Sackett, Stanton
Wil-le Farms, Ron & Ed McCrea, Bad Axe

ZONE 4/5

VanDrese Farms, Gladstone
Johnson Dairy Farm, Dave Johnson, Daggett
Robert E. Lee, Marion
Jeremy Beebe, Whittmore
AgBio Research Station, Chris Kapp, Chatham

THANK YOU TO THOSE WHO HELPED:

Jake Williams
Emily DeVooght
Casey Reagan
Nathan Hoshal
David Batterson
Katherine Boyse
Mark Wohlfert
Warren Sokolnicki

MICHIGAN STATE | **Extension**
UNIVERSITY

MSU is an affirmative action/equal opportunity institution. Michigan State University Extension programs and materials are available to all without regard to race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, marital status, or family status. Issued in furtherance of MSU Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Thomas G. Coon, director, MSU Extension, East Lansing, MI 48824. - This information is for educational purposes only. Reference to commercial products or trade names does not imply endorsement by MSU Extension or bias against those not mentioned. This bulletin becomes public property upon publication and may be reprinted verbatim as a separate or within another publication with credit to MSU. Reprinting cannot be used to advertise a commercial product or company.