

A3653

Wisconsin Corn Hybrid Performance Trials

Grain • Silage • Specialty • Organic



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COLLEGE OF
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UNIVERSITY OF WISCONSIN-MADISON

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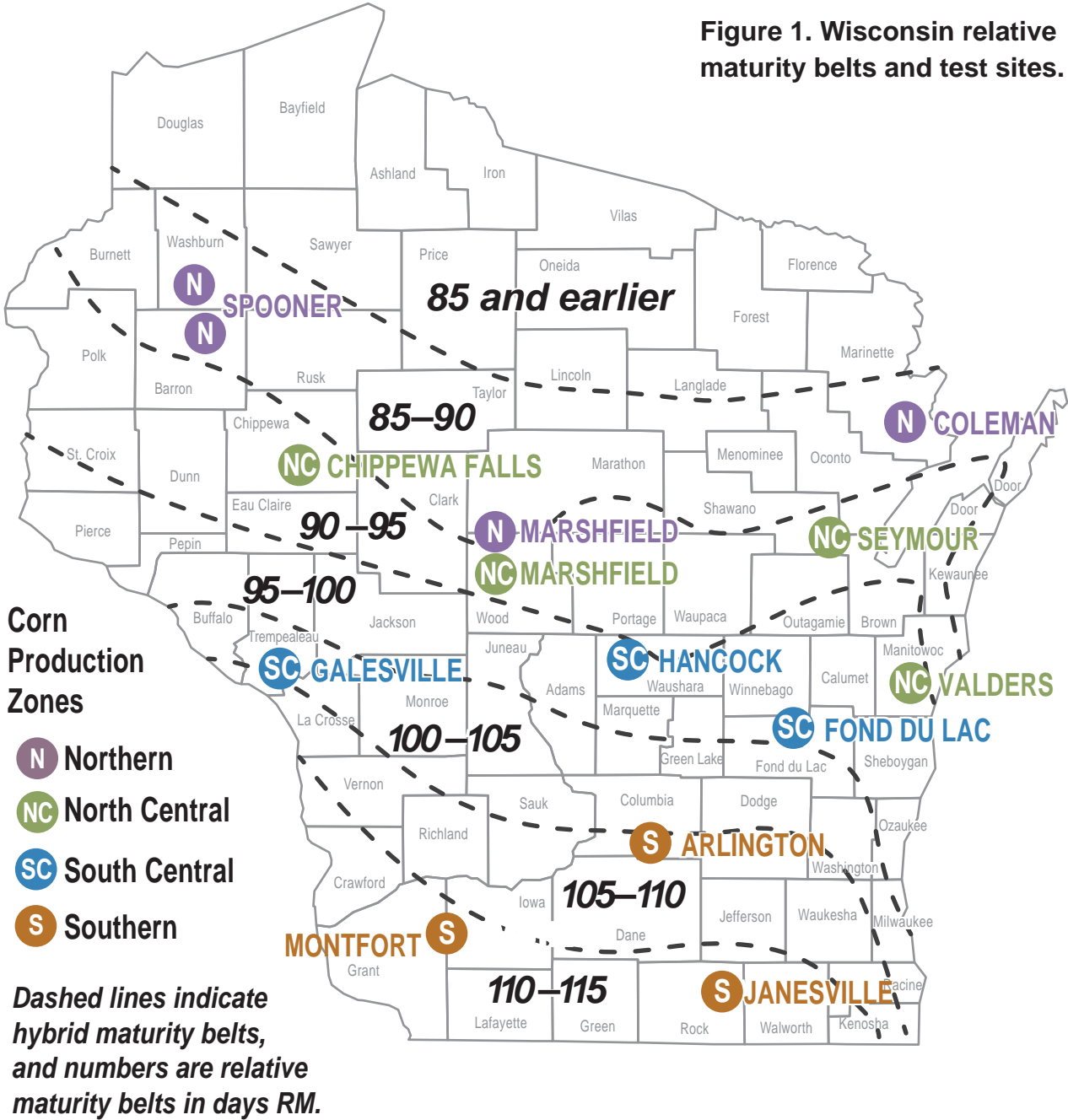
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Figure 1. Wisconsin relative maturity belts and test sites.



Trait references

References to transgenic traits in this publication are for your convenience and are not an endorsement or criticism of one trait over other similar traits. Every attempt was made to ensure accuracy of traits in the hybrids tested. You are responsible for using traits according to the current label directions of seed companies. Follow directions exactly to protect the environment and people from misuse. Failure to do so violates the law.



INTRODUCTION

Every year, the University of Wisconsin–Extension and the University of Wisconsin–Madison College of Agricultural and Life Sciences conduct a corn evaluation program in cooperation with the Wisconsin Crop Improvement Association. The purpose of this program is to provide unbiased performance comparisons of hybrid seed corn for both grain and silage available in Wisconsin.

In 2019, grain and silage performance trials were planted at 14 locations in four production zones: the southern, south central, north central, and northern zones. Both seed companies and university researchers submitted hybrids. Companies with hybrids included in the 2019 trials are listed in Table 1. Specific hybrids and where they were tested are shown in Table 2. A summary of the transgenic traits tested in 2019 is shown in Table 3. A summary of seed treatment performance in 2019 is shown in Table 4. In the back of the report, hybrids tested over the past three years are listed in Table 24. At most locations, trials were divided into early- and late-maturity trials based on the hybrid relative maturities provided by the companies. The specific relative maturities separating early- and late-trials are listed in the tables.

Growing Conditions For 2019

Seasonal precipitation and temperature at the trial sites are shown in Table 5. The 2019 growing season was colder and wetter than the 30-year normal for most of the season throughout Wisconsin. According to USDA-NASS data, 2019 was the slowest planting season for farmers since records were initiated and kept beginning in 1979. Farmer harvest progress has also been slower than normal. Most trial plots were established by early May, except for sites in northeastern Wisconsin. Stand establishment was good to excellent at all locations, except Hancock. Pollination conditions were above average and ear size was longer than normal. Significant storms in mid-July caused significant lodging at Arlington and Galesville. Significant green-snap occurred at Coleman. In northeastern Wisconsin, some flooding and standing water was observed in the plots and surrounding area. The fall killing frost was later than normal. An exceptionally cool and wet fall made harvest difficult and slower than normal. Grain moisture was higher than normal. Little disease and insect pressure were observed in most trials.

Cultural Practices

The seedbed at each location was prepared by either conventional or conservation tillage methods. Seed treatments of hybrids entered into the trials are described in Table 4. Fertilizer was applied as recommended by soil tests. Herbicides were applied for weed control and supplemented with cultivation when necessary. Corn rootworm insecticide was applied in all trials. Information on cultural practices for each location is summarized in Table 6.

Planting

A precision vacuum corn planter using GIS technology was used at all locations except Spooner. Two-row plots, 25 feet long, were planted at all locations. Plots were not hand-thinned. Each hybrid was grown in at least three separate plots (replicates) at each location to account for field variability.



Harvesting

Grain: Two-row plots were harvested with a self-propelled corn combine. Lodged plants and/or broken stalks were counted, plot grain weights and moisture contents were measured, and yields were calculated and adjusted to 15.5% moisture. Test weight was measured on each plot.

Silage: Whole plant (silage) plots were harvested using a tractor-driven, three-point mounted one-row chopper. One row was analyzed for whole-plant yield and quality. Plot weight and moisture content were measured, and yields were adjusted to tons of dry matter per acre. A sub-sample was collected and analyzed using near infrared spectroscopy.

PRESENTATION OF DATA

Yield results for individual location trials and for multi-location averages are listed in Tables 7 through 22. Within each trial, hybrids are ranked by moisture averaged over all trials conducted in that zone during 2019. Yield data for both 2018 and 2019 are provided if the hybrid was entered in both years. Starting in 2009, a nearest neighbor analysis of variance for all trials as described by Yang et al. (2004, *Crop Science* 44:49–55) and Smith and Casler (2004, *Crop Science* 44:56–62) is included. A hybrid index (Table 2) lists relative maturity ratings, specialty traits, seed treatments, and production zones tested for each hybrid.

Relative maturity

Seed companies use different methods and standards to classify or rate the maturity of corn hybrids. To provide corn producers a “standard” maturity comparison for the hybrids evaluated, the average grain or silage moisture of all hybrids rated by the company’s relative maturity rating system are shown in each table as shaded rows. In these Wisconsin results tables, hybrids with lower moisture than a particular relative maturity average are likely to be earlier than that relative maturity, while those with higher grain moisture are most likely later in relative maturity. Company relative maturity ratings are rounded to 5-day increments.

The Wisconsin Relative Maturity rating system for grain (GRM) and silage (SRM) compares the harvest moisture of a grain or silage hybrid to the average moisture of company ratings using linear regression. Each hybrid is rated within the trial and averaged over all trials in a zone. Maturity ratings (company, GRM, and SRM) can be found in Table 2.

Grain performance index

Three factors—yield, moisture, and standability—are of primary importance in evaluating and selecting corn hybrids. A performance index (PI), which combines these factors in one number, was calculated for multi-location averages for grain trials. This index evaluates yield, moisture, and lodged stalks at a 50 (yield): 35 (moisture): 15 (lodged stalks) ratio.

The PI was computed by converting the yield, moisture (dry matter), and upright stalk values of each hybrid to a percentage of the test average. Then the PI for each hybrid that appears in the tables was calculated as follows:

$$\text{Performance Index (PI)} = \frac{[(\text{Yield} \times 0.50) + (\text{Dry matter} \times 0.35) + (\text{Upright stalks} \times 0.15)]}{100}$$



Silage performance index

Corn silage quality was analyzed using near infrared spectroscopy equations derived from previous work. Plot samples were dried, ground, and analyzed for crude protein (CP), acid detergent fiber (ADF), neutral detergent fiber (NDF), in-vitro cell wall digestibility (NDFD), in-vitro digestibility (IVD), and starch. Spectral groups and outliers were checked using wet chemistry analysis.

The **MILK2006** silage performance indices, milk per ton and milk per acre, were calculated using an adaptation by Randy Shaver (UW–Madison Department of Dairy Science) of the MILK91 model (Undersander, Howard, and Shaver; *Journal Production Agriculture* 6:231–235). In MILK2006, the energy content of corn silage was estimated using a modification of a published summative energy equation (Weiss and coworkers, 1992; *Animal Feed Science Technology* 39:95–110). In the modified summative equation, CP, fat, NDF, starch, and sugar plus organic acid fractions were included along with their corresponding total-tract digestibility coefficients for estimating the energy content of corn silage. Whole-plant dry matter content was normalized to 35% for all hybrids. The sample lab measure of NDFD was used for the NDF digestibility coefficient. Digestibility coefficients used for the CP, fat, and sugar plus organic acid fractions were constants. Dry matter intake was estimated using NDF and NDFD content assuming a 1,350-pound cow consuming a 30% NDF diet. Using National Research Council (NRC, 2001) energy requirements, the intake of energy from corn silage was converted to expected **milk per ton**. **Milk per acre** was calculated using milk per ton and dry matter yield per acre estimates (Schwab, Shaver, Lauer, and Coors, 2003; *Animal Feed and Science Technology* 109:1–18).

Least significant difference

Variations in yield and other characteristics occur because of variations in soil and growing conditions that lower the precision of the results. Statistical analysis makes it possible to determine, with known probabilities of error, whether a difference is real or whether it might have occurred by chance. Use the appropriate least significant difference (LSD) value at the bottom of the tables to determine true differences.

Least significant differences at the 10% level of probability are shown. Where the difference between two selected hybrids within a column is greater than or equal to the LSD value at the bottom of the column, you can be sure in nine out of ten cases that there is a real difference between the two hybrid averages. If the difference is less than the LSD value, the difference may still be real, but the experiment has produced no evidence of real differences. Hybrids that were not significantly lower in performance than the highest hybrid in a particular test are indicated with an asterisk (*).

HOW TO USE THE RESULTS

The results provide you with an independent, objective evaluation of the performance of unfamiliar hybrids that seed company sales representatives are promoting, as well as a comparison of these unfamiliar hybrids with competitive hybrids. Below are suggested steps to follow for selecting top performing hybrids for next year using these trial results:

1. **Use multi-location average data in shaded areas.** Consider single location results with extreme caution.



2. Begin with trials in the zone(s) nearest you.
3. Compare hybrids with similar maturities within a trial. You will need to divide most trials into at least two and sometimes three groups with similar average harvest moisture—within about a 2% range in moisture.
4. Make a list of five to 10 hybrids with highest 2018 performance index within each maturity group within a trial.
5. **Evaluate the consistency of the performance of the hybrids on your list** over the years and in other zones.
 - a. Scan the 2019 results. **Be wary** of any hybrids on your list that had a 2019 PI of 100 or lower. Choose two or three of the remaining hybrids that have relatively high PIs for **both** 2019 and 2018.
 - b. Check to see if the hybrids you have chosen were **entered in other zones**. (For example, some hybrids entered in the Southern Zone Trials, Tables 7 and 8, are also entered in the South Central Zone Trials, Tables 9 and 10.)
 - c. **Be wary** of any hybrids with a PI of 100 or lower for 2019 or 2018 in any other zones.
6. Repeat this procedure with about three maturity groups to select top-performing hybrids with a range in maturity in order to spread weather risks and harvest time.
7. Observe the relative performance of the hybrids you have chosen based on these trial results in several other reliable, unbiased trials and be wary of any with inconsistent performance.
8. Consider including the hybrids you have chosen in your own test plot, primarily to evaluate the way hybrids stand after maturity, dry-down rate, grain quality, or ease of combine shelling or picking.
9. Remember that you don't know what weather conditions (rainfall, temperature) will be like next year. Therefore, the most reliable way to choose hybrids with greatest chance to perform best next year on your farm is to consider performance in both 2019 and 2018 over a wide range of locations and climatic conditions.

Note: You are taking a tremendous gamble if you make hybrid selection decisions based on 2019 yield comparisons in only one or two local test plots.

FOR MORE INFORMATION

Current and past versions of *Wisconsin Corn Hybrid Performance Trials* (A3653) are available in Microsoft Excel and Acrobat PDF formats at the Wisconsin Corn Agronomy website: corn.agronomy.wisc.edu. To obtain a printed copy, visit UW-Extension's Learning Store at learningstore.uwex.edu, where the most current version of *Wisconsin Corn Hybrid Performance Trials* (A3653) can be ordered or downloaded. For more information on the Wisconsin Crop Improvement Association, visit: wcia.wisc.edu.

Table 1. Companies included in the 2019 trials.

Brand	Company	Address	City	State	Zip	Website
AgriGold	AgriGold Hybrids	5381 Akin Road	St. Francisville	IL	62460	agrigold.com
Augusta	Augusta Seed Corporation	P.O. Box 899	Verona	VA	24482	augustaseed.com
Beck's	Beck's Hybrids	2326 230th Street	Atlanta	IN	46031	beckshybrids.com
Blue River Organic	Blue River Organic Seed	2326 230th Street	Ames	IA	50014	blueriverorgseed.com
Brunner	Brunner Seed, Inc	W. 3850 US HWY 10	Durand	WI	54736	brunnerseed.com
Burrus	Burrus Bros and AssocGrowers	206 N Hughes Rd	Woodstock	IL	60098	burrusseed.com
Channel	Channel	26011 Gladiola Lane	Lanesboro	MN	55949	channel.com
Cornelius	Cornelius Seed	14760 317th Ave	Bellevue	IA	52031	corneliusseed.com
Croplan	Winfield Solutions, LLC	P.O. Box 64589	St. Paul	MN	55164	winfield.com
Dairyland	Dairyland Seed	P.O. Box 958	West Bend	WI	53095	dairylandseed.com
Dekalb	Monsanto	W. 4211 CTY RD H	Pine River	WI	54965	monsanto.com
DuPont Pioneer	Pioneer Hi-Bred Int'l, Inc	P.O. Box 1100	Johnston	IA	50131	pioneer.com
Federal Hybrids	Federal Hybrids	P.O. Box 17	West Bend	IA	50597	federalhybrids.com
Foundation Direct	Foundation Direct Seeds	634 13th Avenue North	Onalaska	WI	54650	foundationorganicseed.com
Foundation Organic	Foundation Organic Seeds	634 13th Avenue North	Onalaska	WI	54650	foundationorganicseed.com
Frontiersmen	Frontiersmen Inc.	210 North Third Street	Kentland	IN	47951	frontiersmen.ag
Golden Harvest	Syngenta	11055 Wayzata Blvd	Minnetonka	MN	55305	syngenta.com
InVision	Growmark, Inc	1701 Towanda Ave	Bloomington	IL	61701	fsseeds.com
Jung	Jung Seed Genetics, Inc	618 Warner Street	Randolph	WI	53956	jungseedgenetics.com
Latham	Latham Hi-Tech Seed	131 180th Street	Alexander	IA	50420	lathamseeds.com
Legacy Seeds	Legacy Seeds, Inc	P.O. Box 68	Scandinavia	WI	54977	legacyseeds.com
Legend Seeds	Legend Seeds	P.O. Box 241	De Smet	SD	57231	legendseeds.net
LG Seeds	LG Seeds	22827 Shissler Road	Elmwood	IL	61529	lgseeds.com
Masters Choice	Masters Choice, Inc	305 West Vienna Street	Anna	IL	62906	seedcorn.com
Mycogen	Mycogen Seeds	9330 Zionsville Rd	Indianapolis	IN	46268	mycogen.com
NK Brand	Syngenta	11055 Wayzata Blvd	Minnetonka	MN	55305	syngenta.com
O'Brien	O'Brien Farms, Inc	552 Glenway Road	Brooklyn	WI	53521	obrienhybrids.com
Power Plus	Burrus Bros and AssocGrowers	206 N Hughes Rd	Woodstock	IL	60098	burrusseed.com
Prairie Hybrids	Prairie Hybrids Seeds	27445 Hurd Road	Deer Grove	IL	61243	prairiehybrids.com
ProHarvest	Brunner Seed, Inc	W 3850 HWY 10	Durand	WI	54736	brunnerseeds.com
Project Seeds	Project Seeds	634 13th Avenue North	Onalaska	WI	54650	foundationorganicseed.com
Renk	Renk Seed Co.	6809 Wilburn Road	Sun Prairie	WI	53590	renkseed.com
Stine	Stine Seeds	22555 Laredo Trail	Adel	IA	50003	stineseed.com
Thunder Seed	Thunder Seed	806 Center Ave West	Dilworth	MN	56529	thunderseed.com
Tracy Seeds	Tracy Seeds, LLC	1805 S. State RD 140	Janesville	WI	53546	tracyseeds.com
Viking	Albert Lea Seed	P.O. Box 127	Albert Lea	MN	56007	alseed.com
Wyffels	Wyffels Hybrid	13344 US HWY 6	Geneseo	IL	61254	wyffels.com

Table 2. Corn hybrids included in the 2019 trials. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or MILK2006) in one or more zones.

Brand Hybrid	Technology: Traits †	Maturity Co.	Seed GRMSRM Trt ‡	Tables	Brand Hybrid	Technology: Traits †	Maturity Co.	Seed GRMSRM Trt ‡	Tables				
AgriGold					Cornelius								
A621-77STXRIB	50: CB,RR	91	93	53	11	*6376	1: None	103	103	97	10*		
A624-06VT2PRO	21: CB,RR	94	93	53	11	*6438DP	21: CB,RR	104	104	103	97	7*,10,16*	
A625-78VT2RIB	50: CB,RR	95	96	53	9,12*	*6869	1: None	108	109	109	97	8*,17*	
A627-83VT2RIB	50: CB,RR	97	97	53	9,12	*C349SS	23: CB,LL,RR,RW	102	103		53	10*	
A628-20VT2RIB	50: CB,RR	98	98	53	9	*C385DP	21: CB,RR	103	103		97	7*	
*A629-12VT2PRO	21: CB,RR	99	100	104	53	*C385SS	23: CB,LL,RR,RW	103	104		53	10*	
*A629-22STXRIB	49: CB,LL,RR,RW	99	99	105	53	*C461SS	23: CB,LL,RR,RW	107	103		53	10*	
*A632-07STX	23: CB,LL,RR,RW	102	103	105	53	*C478DP	21: CB,RR	105	104		97	7*,10*	
*A634-93	1: None	104	103	103	53	C5713SS	23: CB,LL,RR,RW	97	99		53	9	
*A635-54VT2RIB	50: CB,RR	105	104	103	53	*C575DP	21: CB,RR	109	108	109	97	8*,17*	
*A636-11STX	23: CB,LL,RR,RW	106	105	106	53	*C577SS	49: CB,LL,RR,RW	109	108	109	102	8*,17*	
*A637-55VT2RIB	50: CB,RR	107	108	109	53	C633DP	21: CB,RR	110	109		97	8	
*A638-44DGV2PRO	67: CB,DT,RR	108	109	109	53	*C6401SS	23: CB,LL,RR,RW	104	104		53	10*	
*A638-74VT2RIB	50: CB,RR	108	109	109	53	*C7125DP	21: CB,RR	111	111	111	53	8*,15*	
*A638-84	1: None	108	108	109	53	*C7366DGDP	67: CB,DT,RR	113		111	53	15*	
*A639-40VT2RIB	50: CB,RR	109	110	109	53	*C7551SS	23: CB,LL,RR,RW	115		111	53	15*	
*A639-70STX	23: CB,LL,RR,RW	109	109	108	53								
*A640-77VT2RIB	23: CB,LL,RR,RW	110	110	108	53								
*A641-06STXRIB	49: CB,LL,RR,RW	111	110	112	53								
*A641-54VT2PRO	21: CB,RR	111	110	112	53								
Augusta Seed					Croplan								
A2039-3120GTEZ	70: CB,LL,RR	89	91	121	11	*4188VT2P	50: CB,RR	101	99		212	9*	
A2345-3220GTEZ	59: CB,LL,RR	95	97	121	9,12								
A3054-3010GT	3: CB,LL,RR	104	105	121	7								
Beck's					Dairyland								
5113AM	56: CB,LL,RR	101	99	211	9	DS-2220AM	56: CB,LL,RR	82	83		220	13	
5765AMXT	61: CB,LL,RR,RW	107		105	211	19	*DS-3030AM	56: CB,LL,RR	90	86		220	13*
5829A4	7: CB,LL,RR,RW	108		104	211	19	DS-3370YHR	55: CB,LL,RR	93	89		220	13
Blue River Organic					DS-3518AMXT								
21B11	1: None	85	90	170	23	*DS-3519AM	56: CB,LL,RR	96	93	93	220	12*,13*,18,20*	
26B78	1: None	88	92	170	23	*DS-3550YHR	55: CB,LL,RR	95	95		190	12*,13*	
33A16	1: None	92	98	170	22	*DS-3715AM	56: CB,LL,RR	97	96	94	220	9*,12*,18*,20*	
38G54	1: None	96	99	170	21,22	*DS-3750YHR	55: CB,LL,RR	97	97		220	9*,12*	
48G35	1: None	102	104	104	55	19,21	*DS-3810YHR	55: CB,LL,RR	98	96		190	12*
51T59	1: None	103		104	55	19	*DS-4018AM	56: CB,LL,RR	101	99		220	9,12*
57A30	1: None	107		110	55	17	*DS-4019AM	56: CB,LL,RR	99	100		220	7*,9
62G22	1: None	110		110	55	14,17*	*DS-4310YHR	55: CB,LL,RR	103	105		220	7*,10
Brunner					*DS-4317AM								
2897GT-3010	3: CB,LL,RR	89	88	133	11,13		*DS-4318AM	56: CB,LL,RR	104	103	104	220	7*,16*,19*
4044	1: None	104	104	133	10		*DS-4329AM	56: CB,LL,RR	105	105		220	7*,10
EXP102	6: CB,LL,RR	102	102	133	10		*DS-4440AM	56: CB,LL,RR	104	103		220	7*,10
EXP109	72: CB,LL,RR	109	110	110	133	8,17	*DS-4580CYXR	74: CB,LL,RR,RW	105	104		190	7*,10*
EXP95A	59: CB,LL,RR	95	96	133	12		*DS-4816AM	56: CB,LL,RR	108		108	220	17*
Burrus					*DS-4840AM								
4T46SS	23: CB,LL,RR,RW	108	109	203	8		*DS-5018AM	56: CB,LL,RR	110		111	190	17*
Channel					*DS-5329AM								
185-30VT2PRIB	50: CB,RR	85	86	217	20		*DS-7004RA	73: CB,LL,RR	104	105	104	220	10,16*,19*
192-98STXRIB	49: CB,LL,RR,RW	92	93	213	20		*EXP-08508AMXT	61: CB,LL,RR,RW	85	86		220	13*
198-98STXRIB	49: CB,LL,RR,RW	98	98	215	18		*HiDF-3397RA	54: CB,LL,RR,RW	97		96	220	18*,20*
199-11STXRIB	49: CB,LL,RR,RW	99	96	216	18		*HiDF3099RA	54: CB,LL,RR,RW	99		98	220	18*
204-74VT2PRIB	50: CB,RR	104	103	217	16		*HiDF3197RA	54: CB,LL,RR,RW	97		94	220	18*,20*
207-27STXRIB	49: CB,LL,RR,RW	107	110	216	17		HiDF3211RA	54: CB,LL,RR,RW	111		111	220	17
209-15STXRIB	49: CB,LL,RR,RW	109	109	216	14		*HiDF3308AM	56: CB,LL,RR	108		109	220	14*,17*
210-98STXRIB	49: CB,LL,RR,RW	110	109	216	14		*HiDF3407RA	54: CB,LL,RR,RW	107		109	220	14*,17*
					*HiDF3802AMXT								
					HiDF3808RA								
					Dekalb								
					DKC32-12RIB								
					*DKC37-50RIB								
					DKC41-99RIB								
					DKC42-04RIB								
					*DKC43-75RIB								
					DKC44-80RIB								
					*DKC47-54RIB								
					*DKC49-44RIB								

† See Table 3 for transgenic technology details. Traits: CB= Corn borer, DT= Drought tolerant, LL= Liberty Link, RR= Roundup Ready, RW= Corn rootworm; Other: bmr= brown midrib, lfy= leafy, ND= Nutri-Dense, w= white, wo= water optimized

‡ See Table 4 for seed treatment details.

Table 2 (continued). Corn hybrids included in the 2019 trials. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or MILK2006) in one or more zones.

Brand	Technology:	Maturity				Seed	Tables	Brand	Technology:	Maturity				Seed	Tables
Hybrid	Traits †	Co.	GR	SR	Trt ‡	‡	Hybrid	Traits †	Co.	GR	SR	Trt ‡	‡		
DKC52-35RIB	50: CB,RR	102	102	104	215	10,16*	Golden Harvest								
DKC53-27RIB	49: CB,LL,RR,RW	103	104	104	215	10,16	G00H12-3010	3: CB,LL,RR	100	98	173		9		
DKC54-65RIB	50: CB,RR	104	104	215	215	10	G02K39-3120 EZ	70: CB,LL,RR	102	103	173		10		
DKC55-37RIB	49: CB,LL,RR,RW	105		105	216	16	*G03R40-3110	6: CB,LL,RR	103	102	173		10*		
DKC55-53RIB	49: CB,LL,RR,RW	105	104	215	215	7,10	*G04S19-3122 EZ	60: CB,LL,RR,RW	104	104	173		16*,19		
DKC58-34RIB	49: CB,LL,RR,RW	108	108	215	215	8	G05K08-3010	3: CB,LL,RR	105	104	173		7		
DKC59-07RIB	49: CB,LL,RR,RW	109		107	222	14	*G08M20-3120 EZ	70: CB,LL,RR	108	109	173		8*		
DKC59-81RIB	49: CB,LL,RR,RW	109	108	215	215	8	*G09Y24-3220A EZ	59: CB,LL,RR,wo	109	111	173		17*		
DKC60-67RIB	49: CB,LL,RR,RW	110		107	221	14	G10L16-3330 EZ	72: CB,LL,RR	110	108	173		8		
DKC61-41RIB	50: CB,RR	111	111	215	215	8	*G10T63-3120 EZ	70: CB,LL,RR	110	109	173		14*,17*		
DKC62-20RIB	50: CB,RR	112	109	214	214	8	*G12W66-3122 EZ	60: CB,LL,RR,RW	112	111	173		15*,17*		
DKC63-90RIB	49: CB,LL,RR,RW	113		112	216	15	*G95D32-3220 EZ	59: CB,LL,RR	95	97	97	173	9*,18*		
DKC64-34RIB	49: CB,LL,RR,RW	114		112	216	15	G97N86-3220 EZ	59: CB,LL,RR	97	99	173		9		
DuPont Pioneer							InVision								
P0306AM	56: CB,LL,RR	103	103	190	190	10	FS 35SV1 RIB	50: CB,RR	85	88	90	151	11,13,20		
P0574AMXT	61: CB,LL,RR,RW	105	105	197	197	10	*FS 37TV1 RIB	50: CB,RR	87	88	87	151	11,13,20*		
P9492AM	56: CB,LL,RR	94	91	197	197	11,13*	*FS 41TV1 RIB	50: CB,RR	91	92	93	151	11,13,20*		
P9998AMXT	61: CB,LL,RR,RW,wo	99	99	197	197	9,12	FS 45SV1 RIB	50: CB,RR	95	97	88	151	12,20		
P0389AMXT	61: CB,LL,RR,RW	103	104	190	190	10	*FS 47TV1 RIB	50: CB,RR	97	98	96	151	9*,12,18*		
Federal Hybrids							Jung								
3570VT2PRIB	50: CB,RR	83	85	151	151	13	31DP308	50: CB,RR	81	83	214	214	13		
3660GT3011A	66: CB,LL,RR,RW,wo	86	85	149	149	13	32DP300	50: CB,RR	82	81	217	217	13		
3790VT2PRIB	50: CB,RR	87	87	151	151	13	*36DP310	50: CB,RR	86	88	88	217	13,20*		
4160VT2PRIB	50: CB,RR	91	92	95	151	11,13,20	*36DP318	50: CB,RR	86	87	214	214	13*		
4190VT2PRIB	50: CB,RR	91	91	151	151	11,13	37SS328	49: CB,LL,RR,RW	87	87	217	217	13		
4240VT2PRIB	50: CB,RR	92		91	151	20	39DP338	50: CB,RR	89	87	217	217	13		
4580VT2PRIB	50: CB,RR	95	97	151	151	12	41DP400	50: CB,RR	91	92	217	217	11		
4680VT2PRIB	50: CB,RR	96	97	97	151	9,12,18*	42DP419	50: CB,RR	92	92	217	217	11		
4700SS	23: CB,LL,RR,RW	97	98	53	53	12	46SS427RIB	49: CB,LL,RR,RW	96	96	215	215	12		
4880VT2PRIB	50: CB,RR	98	96	151	151	9,12	46SS428	49: CB,LL,RR,RW	96		95	216	20		
4990VT2PRIB	50: CB,RR	99	98	151	151	9,12	*47DP410	50: CB,RR	97	96	217	217	9*		
4999VT2PRIB	50: CB,RR	99	97	99	151	12,18	47DP429	50: CB,RR	97	98	217	217	9		
5000VT2P	21: CB,RR	100	98	53	53	12	*48DP420	50: CB,RR	98	98	217	217	9*		
5280VT2PRIB	50: CB,RR	102	103	151	151	7,10*	48SS420	49: CB,LL,RR,RW	98		97	216	18		
5690VT2PRIB	50: CB,RR	106	103	151	151	7	*49SS437RIB	49: CB,LL,RR,RW	99		96	215	18*		
5700SS	23: CB,LL,RR,RW	107	108	53	53	8	4D178RIB	50: CB,RR	84		91	218	20		
Foundation Direct							Frontiersmen								
8500	1: None	100		104	128	19	4D381RIB	50: CB,RR	94	92	218	218	11		
8855	1: None	92	91	128	128	11	*51SS500	49: CB,LL,RR,RW	101	104	216	216	19*		
8885GTCBLLBL	7: CB,LL,RR,RW	93	91	128	128	11	*51SS509	49: CB,LL,RR,RW	101	101	216	216	9*		
8978GT	2: RR	85	86	128	128	13	*52SS507RIB	49: CB,LL,RR,RW	102	104	215	215	7*,10		
Foundation Organic							*53SS517RIB								
7700	1: None	93	91	3	3	23	*54SS528	49: CB,LL,RR,RW	104	103	215	215	7*		
8749UT	1: None	95	94	3	3	23	*56SS538	49: CB,LL,RR,RW	106	105	104	215	7*,16*		
EXP107	1: None	107	107	3	3	21	*57SS530	49: CB,LL,RR,RW	107	108	109	216	8,17*		
EXP98-80	1: None	98	101	170	170	22	58SS529	49: CB,LL,RR,RW	108	109	216	216	8		
OR-EXP100	1: None	100	99	3	3	22	*58SS537RIB	49: CB,LL,RR,RW	108	108	215	215	14*,17*		
OR8799	1: None	100	98	3	3	22									
ORG8500	1: None	102	102	3	3	22									
ORG8507	1: None	103	105	3	3	22									
ORG8513	1: None	105	106	3	3	21									
ORG8801	1: None	90	92	3	3	23									

† See Table 3 for transgenic technology details. Traits: CB= Corn borer, DT= Drought tolerant, LL= Liberty Link, RR= Roundup Ready, RW= Corn rootworm; Other: bmr= brown midrib, lfy= leafy, ND= Nutri-Dense, w= white, wo= water optimized

‡ See Table 4 for seed treatment details.

Table 2 (continued). Corn hybrids included in the 2019 trials. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or MILK2006) in one or more zones.

Brand Hybrid	Technology: Traits †	Maturity Co.	Seed GRMSRM	Trt ‡	Tables	Brand Hybrid	Technology: Traits †	Maturity Co.	Seed GRMSRM	Trt ‡	Tables
61SS608	49: CB,LL,RR,RW	111	111	215	8	*LR94A01-3011A	66: CB,LL,RR,RW,wo	101	103	164	19*
7S378RIB	49: CB,LL,RR,RW	94		96 215	20	LR9701GENSSRIB	49: CB,LL,RR,RW	101	100	164	9
7S522RIB	49: CB,LL,RR,RW	102	104	215	10	*LR9809VT2PRIB	50: CB,RR	109	109	164	17*
7S744RIB	49: CB,LL,RR,RW	111		112 215	15	LR9886VT2PRIB	50: CB,RR	86	89	164	13
HDS36R22	16: RR	102		104 190	19	*LR9895VT2PRIB	50: CB,RR	95	96	164	12*
HDS76S76RIB	49: CB,LL,RR,RW,HDS	108		106 190	17,19*	*LR9897VT2PRIB	50: CB,RR	97		96 164	18*
						LR9903GENSSRIB	49: CB,LL,RR,RW	103	103	164	7,10*
LG Seeds						*LR9905 VIP3220	59: CB,LL,RR	105	105	164	7*,10*
LG30C02VT2RIB	50: CB,RR	80	82	136	13	*LR9912GENSSRIB	49: CB,LL,RR,RW	112	110	112 164	8*,15*
LG38C18VT2RIB	50: CB,RR	88	87	93 136	13,20	*LR9913 VIP3120	70: CB,LL,RR	113	111	111 164	8,15*,17*
LG42C63VT2RIB	50: CB,RR	92	91	93 136	11,20	LR9993GENSSRIB	49: CB,LL,RR,RW	93	93	164	11
LG44C27VT2RIB	50: CB,RR	94	92	92 136	11,20	*LR9995 VIP3220	59: CB,LL,RR	95	96	96 164	12*,18*
LG51C48VT2PRO	21: CB,RR	101	102	104 136	7,9*,16*,19*	LR99A09-3220	59: CB,LL,RR	109	110	164	8
LG5370VT2RIB	50: CB,RR	84	86	136	13						
LG5375VT2RIB	50: CB,RR	85	85	136	13	Masters Choice					
LG5410VT2RIB	50: CB,RR	91	93	95 136	11,20*	*MC5790	1: None	107	109	107 175 14*,17*,19*,21*	
LG5465VT2RIB	50: CB,RR	97	97	94 136	9,12*,18,20*	*MCT2552-3110	6: CB,LL,RR	75		83 175	20*
LG5494VT2RIB	50: CB,RR	99	97	97 136	9,12,18*	*MCT3393-3000GT	5: CB,LL,RR,RW	83		87 175	18*,20
LG54C04	1: None	104		103 136	16,19*	*MCT3891GT	2: RR	88		90 121	18,20*
LG5505STXRIB	49: CB,LL,RR,RW	100		104 136	16,19	*MCT4572-3010	3: CB,LL,RR	95		95 175	18*,20*
LG5505VT2RIB	50: CB,RR	100	98	136	9	*MCT5454-3111	7: CB,LL,RR,RW	104		105 175	14,16,19*
LG5525VT2RIB	50: CB,RR	105	104	103 136	7,10,16*,19*	*MCT6552-3110	6: CB,LL,RR	115		112 175	15*
LG5548STXRIB	49: CB,LL,RR,RW	109	108	136	8						
LG5590VT2P	50: CB,RR	110		107 136	14	Mycogen					
LG57C33STX	23: CB,LL,RR,RW	107	107	136	8	*F2F712	16: RR,bmr	112		112 149	15,17*
LG58C77VT2RIB	50: CB,RR	108	109	109 136	8,17	BMR97B37RA	49: CB,LL,RR,RW,bmr	97		100 178	18,20
LG59C66VT2RIB	50: CB,RR	109	108	108 136	8,14*,17*						
LG60C33VT2PRO	21: CB,RR	110	111	136	8	NK Brand					
LG62C02VT2RIB	50: CB,RR	112	111	111 136	8,15	*NK0243-3120-EZ1	70: CB,LL,RR	102	102	104 167	7,10,12,19*
LG62C35VT2PRO	21: CB,RR	112	111	136	8	*NK0440-3122-EZ1	60: CB,LL,RR,RW	104	105	105 167	10,14,16*,19*
						NK0472-3110	6: CB,LL,RR	104	103	103 167	7,10*,19*
Latham						*NK0624-3220-EZ1	59: CB,LL,RR	106		105 167	14*,16*
4242VT2PRO	21: CB,RR	92		91 151	20	NK0886-3120-EZ1	70: CB,LL,RR	108	108	167	8
4375VT2PRO	21: CB,RR	93		93 151	20	NK1066-3122-EZ1	60: CB,LL,RR,RW	110		110 167	14
4517VT2PRO	21: CB,RR	95		95 151	18,20*	*NK1082-3330A-EZ1	72: CB,LL,RR,wo	110	108	109 167	8,14,17*
4692RR	16: RR	96		98 151	18	*NK1205-3120-EZ1	70: CB,LL,RR	112	111	111 167	8,15*,17*
5245VT2PRO	21: CB,RR	102		104 151	16,19*	*NK1284-3122-EZ1	60: CB,LL,RR,RW	112		110 167	17*
5742RR	16: RR	107		109 151	17	*NK1460-3110	6: CB,LL,RR	114		111 167	15*
6143-3010A	3: CB,LL,RR,wo	110		110 151	14,17	*NK8519-3220-EZ1	59: CB,LL,RR	85	89	90 167	13,20*
6285VT2PRO	21: CB,RR	112		112 151	15	*NK8881-3010A	3: CB,LL,RR,wo	88	89	88 167	11,13,20*
LH6175VT2PRO	50: CB,RR	111		111 151	15	NK8920-3120-EZ1	70: CB,LL,RR	89	89	167	13
						NK9175-3110A	6: CB,LL,RR,wo	91	91	92 167	11,13,20*
Legacy Seeds						*NK9227-3220A-EZ1	59: CB,LL,RR,wo	92	94	95 167	9,11,13,20*
L2347VT2P(RIB)	50: CB,RR	83	85	149	13	*NK9610-3010	3: CB,LL,RR	96	96	95 167	9*,12*,18*
L2918VT2P	21: CB,RR	89	89	174	11,13	*NK9738-3220-EZ1	59: CB,LL,RR	97		98 167	18*
L3048VT2P	21: CB,RR	90	90	151	11,13	*NK9930-3010	3: CB,LL,RR	99	99	98 167	7*,9,12,16*,18
L3419VT2P	21: CB,RR	94	92	174	11						
L3517VT2P(RIB)	50: CB,RR	95	97	94 151	12,20*	O'Brien Hybrids					
L3537-3220	59: CB,LL,RR	95	96	95 149	12,18,20*	*OB1105	1: None	105		104 101	19*
L3617VT2P(RIB)	50: CB,RR	97	97	151	12	*OB1106	1: None	106		106 101	16*
L3718DGV2P	67: CB,DT,RR	98	98	98 151	9,12*,18*	*OB1109	1: None	110	110	108 101	8,14*
L4118VT2P(RIB)	50: CB,RR	99	98	151	9	*OBX1185	1: None	108	110	107 101	8,14*
L4248VT2P	21: CB,RR	100	99	174	9						
L5217VT2P(RIB)	50: CB,RR	103	103	104 151	7,10*,16*,19*	Organic					
L5319SSX	23: CB,LL,RR,RW	103	103	174	7,10*	*UW Check E-HW	1: None	98	96	3	23*
L5438-3010	3: CB,LL,RR	104	105	104 149	10,16,19*	*UW Check F-HW	1: None	107	103	3	21*
L5519DGV2P	67: CB,DT,RR	105	104	104 174	7,10,16*	*UW Check E	1: None	98	96	3	22*,23*
L6047SSX	49: CB,LL,RR,RW	106	104	104 174	7,16*,19*						
Legend Seeds						Power Plus					
JSC47J086 VIP322059	59: CB,LL,RR	86	88	164	13	*2V15AMXT	61: CB,LL,RR,RW	104	104	190	7*
LR9004GT	2: RR	104		104 164	16	*2Y06AM	56: CB,LL,RR	104	103	198	7*
LR9008GENSSRIB	49: CB,LL,RR,RW	108	106	164	8,10	*4Y34AM	56: CB,LL,RR	108	108	150	14*
						6G34VT2P	21: CB,RR	112	110	190	8

† See Table 3 for transgenic technology details. Traits: CB= Corn borer, DT= Drought tolerant, LL= Liberty Link, RR= Roundup Ready, RW= Corn rootworm; Other: bmr= brown midrib, lfy= leafy, ND= Nutri-Dense, w= white, wo= water optimized

‡ See Table 4 for seed treatment details.

Table 2 (continued). Corn hybrids included in the 2019 trials. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or MILK2006) in one or more zones.

Brand Hybrid	Technology: Traits †	Maturity			Seed Trt ‡	Tables	Brand Hybrid	Technology: Traits †	Maturity			Seed Trt ‡	Tables
		Co.	GRMSRM	Trt ‡					Co.	GRMSRM	Trt ‡		
7W63AM	55: CB,LL,RR	115	112	190		15	RK807SSTX	49: CB,LL,RR,RW	111	112	110	136	8,17
Prairie Hybrids							*RK842SSTX	49: CB,LL,RR,RW	112	110	110	136	8,17*
1231	1: None	100	101	170		23	*RK937VT2P	21: CB,RR	113	111	110	174	8,17*
2741	1: None	102	100	170		22,23	*RK945DGV2P	67: CB,DT,RR	115		111	174	17*
418	1: None	97		93 128		18,20*	*RK965VT2P	21: CB,RR	116		110	174	17*
4211	1: None	106	103	170		22	Stine						
4711	1: None	106	105	170		22	*R9428-32	49: CB,LL,RR,RW	101	101		190	7*,9*
4718	1: None	106		102 128		16,19*	Thunder Seed						
5200	1: None	108	107	128		14,17*,19*	6085 VT2P	50: CB,RR	85	84		151	13
5787	1: None	108	106	128		14,17*,19*	6090 3120	70: CB,LL,RR	90	91		151	11
7355	1: None	112	111	128		15,17*	*6094 VT2P	50: CB,RR	94	92		151	11*
7781 ORG	1: None	112	111	111 170		15,21*	6098 VT2P	50: CB,RR	98	97		151	12
8759	1: None	114	112	128		15	6595 VT2P	50: CB,RR	95	97		151	12
EX0094	1: None	108	110	128		17	6791 VT2P	50: CB,RR	91	91		151	11
ProHarvest							6888 VT2P	50: CB,RR	88	89		151	13
2225VT2PRIB	50: CB,RR	82	84	136		13	6986 VT2P	50: CB,RR	86	88		151	13
2749VT2PRIB	50: CB,RR	87	86	136		13	6987 VT2P	50: CB,RR	87	86		151	13
4255STAXRIB	49: CB,LL,RR,RW	92	91	136		13	6992 VT2P	50: CB,RR	92	92		151	11
4255VT2PRIB	50: CB,RR	92	92	136		11	*6993 VT2P	50: CB,RR	93	94		151	11*
4340VT2PRIB	50: CB,RR	93	93	136		13	*6996 VT2P	50: CB,RR	96	97		151	12*
4545VT2PRIB	50: CB,RR	95	98	136		12	Tracy Seeds						
4630VT2PRIB	50: CB,RR	96	96	136		12	T089-29(3220)	59: CB,LL,RR	89	91		175	11
4825SXRIB	49: CB,LL,RR,RW	98	96	136		12	T093-26A	6: CB,LL,RR,wo	93	91		184	11
4990VT2PRIB	50: CB,RR	99	97	136		9,12*	T094-31	6: CB,LL,RR	94	94		184	9,11
6420SXRIB	49: CB,LL,RR,RW	104	103	136		10	*T095-29	6: CB,LL,RR	95	97	97	184	9,12,18*
6828VT2RIB	50: CB,RR	107	107	136		8	*T102-14(3011A)	66: CB,LL,RR,RW,wo	101	99	103	184	9,19*
X17315	50: CB,RR	86	88	136		13	T102-29 (3122EZ)	60: CB,LL,RR,RW	102	103		175	7,10
X17320	50: CB,RR	91	92	136		11	*T104-13 (3000GT)	5: CB,LL,RR,RW	104		104	184	16*,19
X18550	50: CB,RR	103		104 136		19	*T104-26 (3122EZ)	60: CB,LL,RR,RW	104	104	104	175	7,10,16*
X19473	50: CB,RR	99	98	136		12	T109-31	2: RR	109	110		175	8
X19560	49: CB,LL,RR,RW	104	104	136		10	Viking						
X19652	49: CB,LL,RR,RW	107	108	136		8	*42-92	1: None	92	91	92	219	11,18*,20*
Project Seeds							44-98	1: None	98	97		219	9,12
PS1885GT	2: RR	85	85	128		13	*48-08	1: None	108	109	107	219	8*,14*
PS1893GT	3: CB,LL,RR	93	91	128		13	*51-04GS	1: None	104		104	219	14*,16*,19*
PS1898GT	2: RR	97	97	97 128		12,18	*52-96	1: None	96	97		151	9*,12*
Renk							*53-12GS	1: None	112	109	112	219	8*,15*
9S-104-3010	3: CB,LL,RR	104	103	97		19	55-02	1: None	102	104		219	10
9S-108	1: None	108	104	97		19	*71-90GS	1: None	90		90	219	20*
9S-109-3220	52: CB,LL,RR	109	104	97		19	*84-05	1: None	105	104		219	7*,10*
9S-113	1: None	113		109 97		17	99-00	1: None	100	99		219	9
RK264RR	16: RR	85	86	174		13	*O.45-97GS	1: None	97		100	151	16*,18*
RK278VT2P	21: CB,RR	87	86	174		13	*O.48-08P	1: None	108	108		194	21*
RK287VT2P	50: CB,RR	87	88	174		13	*O.51-04P	1: None	104	102		194	21*,22*
RK312VT2P	21: CB,RR	90	88	174		13	O.55-02UP	1: None	102	102		194	22
RK433VT2P	21: CB,RR	92	91	92 174		11,13,20*	*O.69-01	1: None	101		104	194	16*,19*
RK561DGV2P	67: CB,DT,RR	95	96	93 174		12,20	O.69-01P	1: None	101	102		194	22,23
RK579DGV2P	67: CB,DT,RR	98	98	96 174		9,12*,20*	*O.74-10GS	1: None	110	108	108	194	14*,21*
RK587VT2P	50: CB,RR	97	96	174		12	*O.82-95GS	1: None	95		93	194	18*,20*
RK593VT2P	21: CB,RR	96	97	96 174		12,20*	*O.82-95P	1: None	95	94		194	23*
RK621VT2P	21: CB,RR	102	103	103 174		10,19*	*O.84-95UP	1: None	95	95		194	22*,23*
RK626SSTX	23: CB,LL,RR,RW	102	103	104 136		10,19*	*O.98-98P	1: None	98	97		194	22,23*
RK642VT2P	50: CB,RR	103	103	174		10	Wyffels						
RK710DGV2P	67: CB,DT,RR	106	104	104 174		10,19	*W4196RIB	50: CB,RR	105	104		53	7*
RK717SSTX	49: CB,LL,RR,RW	105	104	104 136		10,19	W4358RIB	49: CB,LL,RR,RW	106	104		53	7
RK724RR	16: RR	103		104 174		19	W4638	23: CB,LL,RR,RW	107	110		53	8
RK737SSTX	49: CB,LL,RR,RW	106	105	136		10	*W5086	21: CB,RR	107	108		53	8*
RK765VT2P	21: CB,RR	108	108	104 174		8,19*	W5518RIB	49: CB,LL,RR,RW	108	110		53	8
RK779SSTX	49: CB,LL,RR,RW	108	109	136		8							

† See Table 3 for transgenic technology details. Traits: CB= Corn borer, DT= Drought tolerant, LL= Liberty Link, RR= Roundup Ready, RW= Corn rootworm; Other: bmr= brown midrib, lfy= leafy, ND= Nutri-Dense, w= white, wo= water optimized

‡ See Table 4 for seed treatment details.

Table 3. List of transgenic technologies used in corn hybrids entered in the 2019 UW corn trials.

Technology †	First		Grain yield §		Forage yield §		
	Year	Abbreviation	Traits ‡	N	Bu/A	N	T/A
1 Conventional	1930	Conv	None	150	* 8.1	204	* 0.13
2 Agrisure® GT	2006	GT	RR	41		14	
3 Agrisure® 3010	2006	3010	CB,LL,RR	126	-10.3	9	
5 Agrisure® 3000GT	2008	3000GT	CB,LL,RR,RW			12	
6 Agrisure Viptera® 3110	2011	Vip3110	CB,LL,RR	99	-7.2	21	
7 Agrisure Viptera® 3111	2010	Vip3111	CB,LL,RR,RW	9		19	
16 Roundup Ready® Corn 2	2000	RR2	RR	12		13	
21 Genuity™ VT Double Pro™	2008	GENVT2Pro	CB,RR	288	* 6.8	15	
23 Genuity™ SmartStax™	2008	GENSS	CB,LL,RR,RW	130	-0.2		
49 Genuity™ SmartStax™ RIB	2013	GENSSRIB	CB,LL,RR,RW	473	-1.7	198	-0.18
50 Genuity™ VT Double Pro™ RIB	2008	GENVT2ProRIB	CB,RR	1082	2.9	187	* 0.20
54 DAS SmartStax™plus RIB	2009	DASSSRIB	CB,LL,RR,RW			44	
55 Optimum® Intrasect®	2006	YGCBHX1LLRR2	CB,LL,RR	73	* 12.6		
56 Optimum® AcreMax®	2013	AMRIB	CB,LL,RR	231	* 4.3	62	* 0.21
59 Agrisure Viptera® 3220 E-Z Refuge®	2014	Vip3220RIB	CB,LL,RR	186	-10.3	33	
60 Agrisure® 3122 E-Z Refuge®	2014	3122RIB	CB,LL,RR,RW	36		6	
61 Optimum® AcreMax® Xtreme	2014	AMXT	CB,LL,RR,RW	54	-6.1		
66 Agrisure® 3011	2008	3011	CB,LL,RR,RW	21		14	
67 Genuity™ VT Double Pro™ DroughtGard™	2016	GENVT2ProDG	CB,DT,RR	73	* 7.4	8	
70 Agrisure® 3120 E-Z Refuge®	2016	3120RIB	CB,LL,RR	92	-11.8	12	
72 Agrisure Viptera® 3330 EZ Refuge	2019	Vip3330	CB,LL,RR	23			
73 Powercore Refuge	2018	PCORERIB	CB,LL,RR	6			
74 Optimum® Intrasect® Xtreme	2019	YGCB,HXX,LL,RR2	CB,LL,RR,RW	15			
LSD (0.10)					8.3	0.47	

† See Table 2 for specific hybrid transgenic technologies.

‡ Traits: CB= Corn borer, DT= Drought tolerant, LL= Liberty Link, RR= Roundup Ready, RW= Corn rootworm

§ Grain and forage yield of early and late trials are calculated in relation to the trial mean. A minimum of 50 plots was required before inclusion into the analysis.

* Technologies that performed statistically similar to the highest technology in the trial.

Table 4. List of seed treatments used on corn hybrids entered in the 2019 UW corn trials.

Seed Trt.†	Biological Fungicide Insecticide Micronutrients Nematicide PGR	Treatment Mix	Brand	Grain yield‡		Forage yield‡	
				N	Bu/A	N	Bu/A
3	Untreated			99	* 5.3		
53	Poncho500 VOTiVO			356	3.1	184	* 0.02
55	ApronXL+Maxim Poncho250			9		33	
97	Dynasty+MaximXL Cruiser250			70	* 12.8	46	
101	ApronFL+Maxim Cruiser		CruiserMaxx	14		26	
102	Cruiser250			9		6	
121	ApronXL+Dynasty+MaximXL Cruiser Avicta		Avicta Complete Corn	35		14	
128	Apron+Dynasty+Maxim+TBZ		Maxim Quattro	62	-9.7	108	* 0.12
133	Apron+Dynasty+Maxim+TBZ Cruiser250		Maxim Quattro+Cruiser250	46		6	
136	Apron+Stratego+Vortex Poncho500 VOTiVO		Acceleron+Poncho500+VOTiVO	421	0.2	178	* 0.26
149	Maxim Quattro Cruiser 5FS		CruiserMaxx Corn250	39		38	
150	Poncho1250+VOTiVO					6	
151	Apron+Stratego+Vortex Poncho250		Acceleron 250	494	-0.6	208	* -0.03
164	Maxim Quattro Cruiser 5FS Quickroots		CruiserMaxx Corn250+Quickroots	130	-9.9	50	
167	Vibrance+ApronXL+Dynasty+MaximXL Cruiser Avicta		Avicta Complete 250+Vibrance	217	-8.5	144	* -0.07
170	Humic Acid		1r - seed treatment	89	-1.9	6	
173	ApronXL+Dynasty+MaximXL+Vibrance Cruiser Avicta		Avicta Complete 500+Vibrance	70	-11.9	56	* 0.10
174	Apron+Stratego+Vortex Poncho500		Acceleron 500	226	* 5.3	104	* 0.34
175	Maxim Quattro+Vibrance Cruiser 5FS		CruiserMaxx Corn250+Vibrance	56	-10.5	90	-0.28
178	Intego+Maxim Quattro+Vibrance Cruiser 5FS		CruiserMaxx500+Intego+Vibrance			15	
184	Cruiser 5FS Maxim Quattro Wuxal Terios Zn+		CruiserMaxx Corn 250+Wuxal Terios Zn+	52	-17.2	24	
190	Metalaxyl+Fluoxastrobin+Prothioconazole Poncho250			113	* 6.0	39	
194	Humic Acid+Microbials		1R seed treatment+SabrEx	93	0.0	33	
197	Raxil Poncho1250+Lumivia VOTiVO			45			
198	Maxim Quattro Cruiser 5FS+Lumivia		CruiserMaxx Corn250+Lumivia	9			
203	Acceleron B-300 SAT Metalaxyl+Fluoxastrobin+Prothioconazole Poncho			8			
211	Poncho500 VOTiVO 2.0			9		14	
212	Metalaxyl+Fluoxastrobin+Prothioconazole Poncho250 Zinc			9			
213	Acceleron B-300 SAT+Acceleron B-360 ST Apron+Stratego+Vortex Poncho250			8		15	
214	Acceleron B-300 SAT+Acceleron B-360 ST Metalaxyl+Fluoxastrobin+Prothioconazole Poncho250 VOTiVO			89	* 5.4	15	
215	Acceleron B-300 SAT+Acceleron B-360 ST Metalaxyl+ Fluoxastrobin+Prothioconazole Poncho500 VOTiVO			167	* 5.2	96	* 0.27
216	Acceleron B-300 SAT+Acceleron B-360 ST Metalaxyl+ Fluoxastrobin+Prothioconazole Poncho500 NemaStrike			26		71	-0.70
217	Acceleron B-300 SAT+Acceleron B-360 ST Metalaxyl+ Fluoxastrobin+Prothioconazole Poncho250 NemaStrike			92	1.6	24	
218	Metalaxyl+Fluoxastrobin+Prothioconazole Poncho250 VOTiVO			9		9	
219	Maxim Quattro Cruiser 5FS SabrEx		CruiserMaxx Corn250+SabrEx	72	* 5.3	56	* 0.15
220	Apron+Dynasty+Maxim+TBZ+Ilevo Poncho1250 VOTiVO		Maxim Quattro+Ilevo+Poncho1250+VOTiVO	257	3.0	167	* 0.22
221	Metalaxyl+Fluoxastrobin+Prothioconazole Poncho500 NemaStrike					6	
222	Acceleron B-300 SAT+Acceleron B-360 ST Metalaxyl+ Fluoxastrobin+Prothioconazole Poncho500					6	
223	Metalaxyl+Fluoxastrobin+Prothioconazole Poncho250 NemaStrike			12		9	
LSD (0.10)						9.6	0.50

† See Table 2 for specific seed treatments applied to hybrids.

‡ Grain and forage yield are calculated in relation to the trial mean. A minimum of 50 plots was required before inclusion in the analysis.

* Treatments that performed statistically similar to the highest treatment in the trial.

Table 5. 2019 Temperature and Precipitation Summary.

Location	Temperature (Average) Precipitation (Total)	May		June		July		August		September	
		30-year	2019	30-year	2019	30-year	2019	30-year	2019	30-year	2019
		Normal	Departure	Normal	Departure	Normal	Departure	Normal	Departure	Normal	Departure
Arlington	Temperature	55.7	-1.7	65.6	0.3	69.4	4.1	67.3	0.2	59.3	5.2
	Precipitation	7.0	3.3	4.1	-0.6	5.4	1.2	4.9	1.0	5.4	1.8
Chippewa Falls* (Eau Claire)	Temperature	57.6	-4.5	66.9	-2.2	71.6	0.3	69.3	-2.0	60.2	4.0
	Precipitation	3.5	3.4	4.1	-0.8	3.9	1.6	4.5	-1.1	3.7	2.3
	Irrigation	0.0		1.0		2.0		1.0		0.0	
Coleman (Oconto)	Temperature	54.2	-2.6	64.0	-0.5	68.4	3.3	66.7	-0.7	58.5	3.9
	Precipitation	3.4	2.1	3.6	0.2	3.8	1.8	3.5	-0.2	3.3	7.2
Fond du Lac	Temperature	56.3	-4.6	66.0	-2.2	70.4	1.8	68.6	-1.3	60.7	2.1
	Precipitation	3.1	1.0	3.9	0.0	3.5	0.5	3.5	0.9	3.4	4.4
Galesville (Trempealeau)	Temperature	59.3	-4.3	68.5	-0.9	72.7	2.5	70.5	-0.7	62.1	4.1
	Precipitation	3.7	3.8	3.8	0.9	4.4	2.2	4.5	-1.4	3.8	2.8
Hancock*	Temperature	56.8	-4.4	66.5	-1.8	70.3	1.5	68.3	-2.2	60.0	2.1
	Precipitation	3.7	1.5	4.5	0.0	4.4	2.8	4.2	-1.3	3.4	1.8
	Irrigation	4.7		5.3		11.0		5.1		5.5	
Janesville (Brodhead)	Temperature	58.3	-2.9	68.1	-0.1	71.9	3.3	69.8	-1.0	61.4	4.7
	Precipitation	3.8	4.0	4.9	-0.6	3.9	0.5	4.3	2.0	3.5	4.6
Marshfield	Temperature	56.1	-4.0	65.8	-2.1	70.1	1.6	68.1	-2.1	59.1	2.4
	Precipitation	3.7	2.0	4.5	-0.9	4.0	3.2	4.3	-0.9	3.9	4.7
Montfort (Lancaster)	Temperature	57.3	-2.1	66.9	-0.1	70.8	3.1	69.0	-1.5	60.8	4.4
	Precipitation	4.1	1.5	5.3	-0.6	4.3	2.0	4.2	-1.0	3.1	15.5
Seymour (Green Bay)	Temperature	56.2	-1.9	65.5	-0.1	69.8	3.4	68.5	-0.1	59.8	4.5
	Precipitation	2.9	2.0	3.9	0.9	3.5	0.0	3.4	2.2	3.0	6.3
Spooner*	Temperature	55.7	-4.3	64.9	0.0	69.3	1.7	67.3	-1.5	58.3	2.5
	Precipitation	3.5	2.8	4.0	-1.8	4.1	-1.3	4.2	-0.6	3.8	3.6
	Irrigation	0.0		0.0		0.6		1.1		0.0	
Valders (Manitowoc)	Temperature	53.5	-2.1	63.7	-3.9	69.2	-0.6	68.3	-1.2	60.7	1.0
	Precipitation	3.1	0.8	3.5	0.7	3.4	-1.0	3.6	1.7	3.1	1.4

* Irrigation applied at Chippewa Falls, Hancock and Spooner Irrigated Trial.

Source: Wisconsin State Climatology Office

Table 6. Individual Trial Information - 2019 Trials.

Location	Previous Crop / Row Width (in)	Harvest	Av. Final		Soil Test			Nitrogen Fertilizer			Insect		
			Stand	Tillage	pH	P	K	actual N	form	time	Control	Weed Control	
Soil Series	Cooperators	Planting Date	Dates	(plants/A)	Operations	--(ppm)--			(lbs/A)				
Arlington	M. Bertram	Alfalfa / 30	Oct-24	G: 32424	Disk Chisel	5.7	30	136	9258 gal	Manure	pre	Force 3G	Resicore 80.0 oz/A
Plano Silt Loam		May-13		O: 30151	Field Cultivator	OM %: 3.3			123	32-0-0	pre	4.4 lbs/A	
			Sep-18	S: 33225					18	9-11-30-6S-1Zn	plant		
Chippewa Falls	J. Clark	Corn / 30	Oct-17	G: 33575	Spring Chisel	6.5	27	54	10000 gal	Manure	pre	Force 3G	Acuron 3.0 qt/A
Sattre Silt Loam	J. Jensen	May-4		O: 27068	Field Cultivator	OM %: 1.3			18	9-11-30-6S-1Zn	plant	4.4 lbs/A	
			Sep-10	S: 33579					11	21-0-0-24S	pre		
Irrigated									92	46-0-0	post		
Coleman	T. Kuchta	Soybean / 30	Oct-31	G: 32476	Disk Chisel	5.5	28	136	5000 gal	Manure	pre	Force 3G	Acuron 3.0 qt/A
Oconto Sandy Loam		May-16	Sep-26	S: 32575	Field Cultivator	OM %: 1.4			5	18-46-0	pre	4.4 lbs/A	
									16	21-0-0-24S	pre		
									92	46-0-0	pre		
									18	9-11-30-6S-1Zn	plant		
Fond du Lac	E. Montsma	Soybean / 30	Nov-15	G: 33535	Fall Chisel	6.6	18	92	180	46-0-0	pre	Force 3G	Acuron 3.0 qt/A
Virgil Silt Loam		June-4		O: 32967	Field Cultivator	OM %: 3.0			18	9-11-30-6S-1Zn	plant	4.4 lbs/A	
			Oct-9	S: 33855					96	28-0-0	post		
Galesville	K. Congdon	Soybean / 30	Oct-17	G: 32259	Field Cultivator	5.6	18	163	100	46-0-0	pre	Force 3G	Callisto 3.0 oz/A
Downs Silt Loam		April-29		O: 24449		OM %: 3.5			21	21-0-0-24S	pre	4.4 lbs/A	Me-too-lachlor 1.25 pt/A
			Sep-17	S: 32259					18	18-46-0	pre		Banvel 2.0 oz/A
									18	9-11-30-6S-1Zn	plant		
Hancock	P. Sytsma	Corn / 30	Oct-24	G: 31414	Soil Finisher	5.7	124	122	18	9-11-30-6S-1Zn	plant	Force 3G	Prowl 2.0 pt/A
Plainfield Sand		April-30		O: 23269		OM %: 0.8			32	21-0-0-24S	post	4.4 lbs/A	Laudis 3.0 oz/A
Irrigated									39	11-52-0	post		
									106	32-0-0	post		
Janesville	N. Baker	Corn / 30	Oct-25	G: 33168	Spring Chisel	6.1	39	105	18	9-11-30-6S-1Zn	plant	Force 3G	Acuron 3.0 qt/A
Plano Silt Loam		May-13			Field Cultivator	OM %: 3.6			200	28-0-0	pre	4.4 lbs/A	Status 10.0 oz/A
Marshfield	J. Cavadini	Corn / 30	Nov-7	G: 28936	Chisel Plow	6.1	67	147	46	46-0-0	pre	Force 3G	Callisto Xtra 26.0 oz/A
Withee Silt Loam		May-15	Oct-7	S: 27967	Field Cultivator	OM %: 2.8			18	9-11-30-6S-1Zn	plant	4.4 lbs/A	Primer 0.5 oz/A
									115	46-0-0	post		Charger Max 1.0 pt/A
Montfort	B. Bender	Soybean / 30	Oct-23	G: 33182	Field Cultivator	6.1	57	175	18	9-11-30-6S-1Zn	plant	Force 3G	Explorer 3.0 oz/A
Dodgeville Silt Loam		May-11		O: 33573		OM %: 3.3			185	32-0-0	pre	4.4 lbs/A	Zidua 3.25 oz/A
			Sep-16	S: 33182					7	12-0-0-26S	pre		Atrazine 4L 32.0 oz/A Roundup 25.6 oz/A
Seymour	M. Maass	Soybean / 30	Nov-1	G: 33001	Chisel Plow	7.2	18	114	70	46-0-0	pre	Force 3G	Capreno 4.0 oz/A
Onaway Silt Loam		May-15		O: 26641	Field Cultivator	OM %: 2.4			17	11-52-0	pre	4.4 lbs/A	Atrazine 0.75 lb/A
									18	9-11-30-6S-1Zn	plant		
									88	32-0-0	post		
Spooner	P. Holman	Corn / 30	Oct-29	G: 29224	Spring Chisel	6.3	56	123	20	13-13-18-9S	plant	None	Dual II Mag 1.0 pt/A
Irrigated		May-8	Sep-24	S: 32251	Disk	OM %: 1.5			161	46-0-0	post		Hornet 4.0 oz/A
Cress Sandy Loam													
Silt Loam		Soybean / 30	Oct-30	G: 34697	Disk	6.5	43	154		0-0-60	pre	None	Dual II Mag 1.0 pt/A
Antigo Silt Loam		May-14	Oct-2	S: 37036		OM %: 2.4			20	13-13-18-9S	plant		Hornet 4.0 oz/A
									101	46-0-0	post		Status 5.0 oz/A
Dryland		Soybean / 30	Oct-29	G: 29224	Disk	6.5	53	110	20	13-13-18-9S	plant	None	Roundup 21.0 oz/A
Cress Sandy Loam		May-10				OM %: 1.7			101	46-0-0	post		Dual II Mag 1.0 pt/A Hornet 4.0 oz/A
Valders	D. Wagner	Alfalfa / 30	Nov-10	G: 32102	Chisel Plow	7.3	46	230	10000 gal	Manure	pre	Force 3G	TripleFlex 3.0 pts/A
Kewaunee Clay Loam		May-31		O: 30604	Field Cultivator	OM %: 3.6			18	9-11-30-6S-1Zn	plant	4.4 lbs/A	
			Oct-8	S: 31216					142	32-0-0	post		Cultivated

Note: G=Grain, S=Silage, O=Organic.

Table 7. Southern Zone - Early Maturity Grain Trial. (page 1 of 2)

106 day Relative Maturity or earlier based on company rating (Arlington= ARL, Janesville= JAN, Montfort=MON)

Brand	Hybrid	Traits†	2019									2018				
			Average						Yield (bu/A)			Average		Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt. %	Lodge %	ARL	JAN	MON	Yield (bu/A)	P.I. #	ARL	JAN	MON	
Dairyland	DS-4019AM	CB,LL,RR	245	* 101	22.8	51	0	* 262	235	238	255	* 102	274	* 251	* 240	
NK Brand	NK9930-3010	CB,LL,RR	236	* 99	23.0	53	1	232	227	248						
Legend Seeds	LR9903GENSSRIB	CB,LL,RR,RW	* 249	* 101	23.1	53	4	246	237	264						
Stine	R9428-32	CB,LL,RR,RW	236	* 99	23.1	53	1	225	223	258						
Dairyland	DS-4318AM	CB,LL,RR	* 250	* 100	23.3	54	9	242	247	261	256	* 102	270	* 253	* 245	
InVision	FS 51QX1 RIB	CB,LL,RR,RW	235	97	23.3	53	8	225	238	241	239	100	263	233	220	
Cornelius	C385DP	CB,RR	* 273	* 105	23.4	53	5	* 279	250	* 291						
Dairyland	DS-4317AM	CB,LL,RR	246	* 101	23.5	54	1	240	238	261	* 262	* 105	281	* 263	* 242	
NK Brand	NK0472-3110	CB,LL,RR	* 252	* 102	23.6	56	1	* 260	237	259						
Power Plus	2Y06AM	CB,LL,RR	* 261	* 103	23.6	54	6	* 272	247	264	258	* 102	* 288	* 243	* 245	
Federal Hybrids	5690VT2PRIB	CB,RR	* 270	* 105	23.6	55	1	* 276	245	* 289						
InVision	FS 53ZX1 RIB	CB,LL,RR,RW	* 257	* 103	23.7	53	1	* 275	237	260	229	98	244	225	219	
Legacy Seeds	L5319SSX	CB,LL,RR,RW	* 259	* 103	23.7	54	1	* 257	249	273						
Legacy Seeds	L5217VT2P(RIB)	CB,RR	247	* 100	23.7	53	6	241	234	267						
AgriGold	A632-07STX	CB,LL,RR,RW	213	90	23.8	54	25	119	250	269						
Jung	54SS528	CB,LL,RR,RW	* 260	* 103	23.8	54	1	* 275	246	259	243	100	265	234	228	
100-DAY HYBRID TRIAL AVERAGE##					23.9											
AgriGold	A634-93	None	* 268	* 105	23.9	55	1	* 278	246	279						
Jung	52SS507RIB	CB,LL,RR,RW	242	* 99	24.0	51	2	238	234	254	240	100	258	* 245	218	
Cornelius	C478DP	CB,RR	* 250	* 101	24.0	55	3	* 258	230	264	* 264	* 104	287	* 260	* 246	
Federal Hybrids	5280VT2PRIB	CB,RR	* 263	* 103	24.3	53	4	* 279	244	266						
Dairyland	DS-4440AM	CB,LL,RR	* 261	* 103	24.4	53	2	* 259	* 259	266						
Golden Harvest	G05K08-3010	CB,LL,RR	212	89	24.4	52	29	179	250	209						
Cornelius	6438DP	CB,RR	245	* 100	24.5	52	3	243	228	264						
Viking	84-05	None	* 272	* 105	24.6	53	2	* 269	242	* 306						
Tracy Seeds	T102-29 (3122EZ)	CB,LL,RR,RW	215	94	24.7	54	1	216	208	221						
105-DAY HYBRID TRIAL AVERAGE##					24.8											
InVision	FS 5594X RIB	CB,LL,RR,RW	* 249	* 100	24.8	54	1	* 254	229	263						
LG Seeds	LG51C48VT2PRO	CB,RR	* 250	* 101	24.9	52	2	* 262	234	253						
Wyffels	W4358RIB	CB,LL,RR,RW	237	98	25.0	53	1	242	227	243						
LG Seeds	LG5525VT2RIB	CB,RR	* 273	* 105	25.1	54	1	* 284	239	* 296	245	100	282	238	215	
NK Brand	NK0243-3120-EZ1	CB,LL,RR	221	94	25.1	50	7	223	218	223						
Jung	53SS517RIB	CB,LL,RR,RW	232	96	25.2	53	6	232	219	244	228	96	267	191	227	
Dairyland	DS-4580CYXR	CB,LL,RR,RW	* 269	* 104	25.2	55	4	* 266	* 258	* 283						
Wyffels	W4196RIB	CB,RR	* 268	* 104	25.2	54	1	* 267	* 253	* 285	252	* 102	* 291	* 248	216	

CONTINUED.

Table 7 (continued). Southern Zone - Early Maturity Grain Trial. (page 2 of 2)

106 day Relative Maturity or earlier based on company rating (Arlington= ARL, Janesville= JAN, Montfort=MON)

Brand	Hybrid	Traits†	2019									2018				
			Average						Yield (bu/A)			Average		Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt. %	Lodge %	ARL	JAN	MON	Yield (bu/A)	P.I. #	ARL	JAN	MON	
AgriGold	A635-54VT2RIB	CB,RR	* 270	* 105	25.2	54	1	* 260	251	* 299	252	* 102	281	* 242	231	
Legacy Seeds	L6047SSX	CB,LL,RR,RW	* 251	* 100	25.3	53	3	* 254	237	262						
Legacy Seeds	L5519DGVT2P	CB,DT,RR	242	97	25.3	54	13	214	241	272						
InVision	FS 55RL1 EZR	CB,LL,RR	247	* 99	25.4	52	3	253	233	255						
Power Plus	2V15AMXT	CB,LL,RR,RW	* 250	* 99	25.4	53	10	253	244	252						
Tracy Seeds	T104-26 (3122EZ)	CB,LL,RR,RW	234	97	25.5	51	3	236	218	248	256	* 103	266	* 252	* 250	
AgriGold	A636-11STX	CB,LL,RR,RW	241	98	25.5	52	6	222	* 255	246						
Dekalb	DKC55-53RIB	CB,LL,RR,RW	* 261	* 101	25.6	54	10	* 257	247	280						
Augusta Seed	A3054-3010GT	CB,LL,RR	218	91	26.0	53	20	209	223	221						
Dairyland	DS-4310YHR	CB,LL,RR	* 263	* 101	26.0	53	11	* 264	* 268	257						
Legend Seeds	LR9905 VIP3220	CB,LL,RR	246	* 99	26.3	52	3	239	231	266						
Jung	56SS538	CB,LL,RR,RW	* 271	* 104	26.6	54	3	* 284	* 254	274	245	99	276	* 245	214	
Dairyland	DS-4329AM	CB,LL,RR	* 259	* 101	27.3	52	5	* 267	222	* 289	256	* 102	267	* 244	* 257	
MEAN			249	100	24.6	53	5	247	239	262	244	100	267	237	228	
LSD(0.10)**			24	6	1.0	2	9	30	16	24	14	3	18	23	17	

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 8. Southern Zone - Late Maturity Grain Trial. (page 1 of 2)

107 day Relative Maturity or later based on company rating (Arlington= ARL, Janesville= JAN, Montfort=MON)

Brand	Hybrid	Traits†	2019									2018				
			Average						Yield (bu/A)			Average		Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	ARL	JAN	MON	Yield (bu/A)	P.I. #	ARL	JAN	MON	
ProHarvest	6828VT2RIB	CB,RR	248	* 104	25.0	53	3	243	239	262						
LG Seeds	LG57C33STX	CB,LL,RR,RW	244	102	26.2	52	9	228	236	269						
Legend Seeds	LR9008GENSSRIB	CB,LL,RR,RW	233	98	26.4	55	16	216	227	256						
ProHarvest	X19652	CB,LL,RR,RW	246	* 103	26.5	55	3	249	230	259						
Federal Hybrids	5700SS	CB,LL,RR,RW	226	97	26.5	54	13	201	234	242						
Renk	RK765VT2P	CB,RR	251	* 105	26.7	52	1	* 270	230	253						
InVision	FS 57ZX1 RIB	CB,LL,RR,RW	245	101	26.8	53	13	210	234	* 291	237	101	275	230	206	
105-DAY HYBRID TRIAL AVERAGE##					27.0											
Dekalb	DKC58-34RIB	CB,LL,RR,RW	235	100	27.0	55	8	230	233	241	231	98	262	238	194	
NK Brand	NK0886-3120-EZ1	CB,LL,RR	237	101	27.1	54	5	218	224	267						
LG Seeds	LG59C66VT2RIB	CB,RR	* 278	* 110	27.1	55	1	* 291	* 262	* 282	247	102	* 285	236	220	
Wyffels	W5086	CB,RR	* 257	* 106	27.2	53	0	* 270	239	260						
NK Brand	NK1082-3330A-EZ1	CB,LL,RR-wo	197	86	27.2	53	43	151	237	203						
Jung	57SS530	CB,LL,RR,RW	231	98	27.3	54	11	215	224	255						
Dekalb	DKC59-81RIB	CB,LL,RR,RW	239	100	27.4	53	11	220	* 259	238						
AgriGold	A638-84	None	249	102	27.4	54	12	251	227	269						
Golden Harvest	G10L16-3330 EZ	CB,LL,RR	208	88	27.5	54	45	178	230	217						
Cornelius	C575DP	CB,RR	* 261	* 106	27.6	53	3	* 262	243	* 278						
AgriGold	A637-55VT2RIB	CB,RR	250	* 103	27.7	53	5	235	241	* 275	226	97	252	217	208	
Cornelius	C577SS	CB,LL,RR,RW	* 269	* 107	27.8	54	2	* 263	* 252	* 290						
LG Seeds	LG58C77VT2RIB	CB,RR	244	102	27.9	53	2	243	233	255	220	96	239	217	204	
Golden Harvest	G08M20-3120 EZ	CB,LL,RR	246	* 103	28.0	53	2	234	237	268						
Cornelius	C633DP	CB,RR	242	101	28.0	53	3	217	233	* 276	246	101	268	239	229	
Burrus	4T46SS	CB,LL,RR,RW	* 256	* 105	28.0	55	1	239	246	* 283						
Viking	53-12GS	None	* 260	* 106	28.1	54	1	* 276	241	263	* 258	* 104	282	231	260	
InVision	FS 58RL1 EZR	CB,LL,RR	231	98	28.1	53	9	216	231	247						
AgriGold	A638-74VT2RIB	CB,RR	* 259	* 104	28.3	55	7	233	245	* 299	* 258	* 104	* 306	238	230	
Renk	RK779SSTX	CB,LL,RR,RW	225	97	28.4	54	7	206	229	239	225	98	246	228	200	
AgriGold	A639-70STX	CB,LL,RR,RW	238	99	28.5	52	11	188	243	* 285						
InVision	FS 60UX1 RIB	CB,LL,RR,RW	* 259	* 104	28.7	54	8	240	* 254	* 283	251	102	268	* 254	231	
Jung	58SS529	CB,LL,RR,RW	247	102	28.8	53	5	213	246	* 282	248	102	282	243	220	
Dekalb	DKC62-20RIB	CB,RR	* 268	* 107	28.8	55	4	* 278	241	* 285						
AgriGold	A638-44DGV2PRO	CB,DT,RR	248	101	28.9	54	11	203	* 252	* 289						
LG Seeds	LG5548STXRIB	CB,LL,RR,RW	233	99	28.9	53	5	221	232	244	250	102	* 289	233	228	
Cornelius	6869	None	* 273	* 108	29.0	53	3	* 283	246	* 291						

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Table 8 (continued). Southern Zone - Late Maturity Grain Trial. (page 2 of 2)

107 day Relative Maturity or later based on company rating (Arlington= ARL, Janesville= JAN, Montfort=MON)

Brand	Hybrid	Traits†	2019									2018				
			Average						Yield (bu/A)			Average		Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	ARL	JAN	MON	Yield (bu/A)	P.I. #	ARL	JAN	MON	
Viking	48-08	None	251	* 103	29.1	51	3	255	236	262	* 257	* 103	275	230	265	
110-DAY HYBRID TRIAL AVERAGE##			29.1													
Wyffels	W4638	CB,LL,RR,RW	233	95	29.3	54	29	214	247	236						
Dairyland	DS-4840AM	CB,LL,RR	240	99	29.4	53	11	201	243	* 275						
Tracy Seeds	T109-31	RR	234	98	29.5	51	11	235	233	234						
Wyffels	W5518RIB	CB,LL,RR,RW	248	102	29.5	54	5	* 257	233	255	245	100	256	250	230	
O'Brien Hybrids	OBX1185	None	245	100	29.8	54	9	242	228	265						
O'Brien Hybrids	OB1109	None	252	101	30.0	52	14	252	224	* 280	215	93	259	155	231	
Brunner	EXP109	CB,LL,RR	229	96	30.1	51	12	216	238	233						
AgriGold	A640-77VT2RIB	CB,LL,RR,RW	246	101	30.2	55	5	232	236	270						
Legend Seeds	LR99A09-3220	CB,LL,RR	198	86	30.3	52	36	188	232	173						
AgriGold	A639-40VT2RIB	CB,RR	* 253	102	30.3	53	4	228	* 252	* 280	240	99	274	224	221	
Legend Seeds	LR9912GENSSRIB	CB,LL,RR,RW	* 256	* 103	30.4	53	5	246	243	* 280						
Power Plus	6G34VT2P	CB,RR	246	99	30.5	54	14	204	246	* 288						
AgriGold	A641-54VT2PRO	CB,RR	245	100	30.7	54	8	232	237	266						
Renk	RK842SSTX	CB,LL,RR,RW	249	100	30.8	55	9	219	239	* 289	246	99	269	244	226	
Renk	RK937VT2P	CB,RR	241	98	30.9	54	15	217	247	259						
Dekalb	DKC61-41RIB	CB,RR	* 278	* 108	30.9	53	3	* 280	* 266	* 288						
AgriGold	A641-06STXRIB	CB,LL,RR,RW	234	98	30.9	53	3	219	227	257	234	97	255	244	202	
LG Seeds	LG62C35VT2PRO	CB,RR	242	99	30.9	53	8	228	224	* 274						
InVision	FS 59VL1 EZR	CB,LL,RR	182	82	30.9	52	37	143	224	179						
Cornelius	C7125DP	CB,RR	* 266	* 104	31.0	54	7	242	* 256	* 300						
LG Seeds	LG60C33VT2PRO	CB,RR	234	98	31.0	54	5	230	214	258						
LG Seeds	LG62C02VT2RIB	CB,RR	248	99	31.0	53	17	210	* 249	* 285	* 257	102	283	* 254	235	
NK Brand	NK1205-3120-EZ1	CB,LL,RR	249	101	31.3	53	5	243	240	264						
Jung	61SS608	CB,LL,RR,RW	252	101	31.7	54	5	223	* 262	* 272	231	95	265	238	190	
Legend Seeds	LR9913 VIP3120	CB,LL,RR	194	85	32.3	52	29	172	223	188						
Renk	RK807SSTX	CB,LL,RR,RW	215	91	32.5	53	19	166	232	246						
MEAN			243	100	28.9	54	10	228	238	262	242	100	267	235	223	
LSD(0.10)**			25	7	1.3	7	14	34	17	28	22	5	21	18	18	

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 9. South Central Zone - Early Maturity Grain Trial. (page 1 of 2)

101 day Relative Maturity or earlier based on company rating (Fond du Lac= FON, Galesville= GAL, Hancock= HAN)

Brand	Hybrid	Traits†	2019									2018				
			Average						Yield (bu/A)			Average		Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	FON	GAL	HAN	Yield (bu/A)	P.I. #	FON	GAL	HAN	
AgriGold	A625-78VT2RIB	CB,RR	215	* 101	22.3	53	11	216	239	188	214	97	213	219	209	
Tracy Seeds	T094-31	CB,LL,RR	202	99	22.6	54	9	209	203	195						
Jung	47DP410	CB,RR	218	* 102	22.8	53	9	215	232	207						
Golden Harvest	G95D32-3220 EZ	CB,LL,RR	212	* 100	22.9	54	16	199	224	211	234	100	222	239	240	
Federal Hybrids	4880VT2PRIB	CB,RR	195	96	23.4	52	15	198	204	184						
NK Brand	NK9610-3010	CB,LL,RR	216	* 103	23.4	54	2	193	* 258	196						
Dairyland	DS-3715AM	CB,LL,RR	211	* 100	23.6	51	11	* 220	207	206	* 247	* 104	229	* 267	244	
Viking	52-96	None	213	* 102	23.7	53	2	211	229	200						
AgriGold	A627-83VT2RIB	CB,RR	218	* 103	23.8	53	3	195	* 247	212						
Dairyland	DS-3750YHR	CB,LL,RR	* 223	* 104	23.8	56	2	216	* 255	197						
95-DAY HYBRID TRIAL AVERAGE##			23.9													
Augusta Seed	A2345-3220GTEZ	CB,LL,RR	202	96	23.9	52	24	204	190	213						
Federal Hybrids	4680VT2PRIB	CB,RR	210	* 101	23.9	53	4	202	233	194						
Golden Harvest	G97N86-3220 EZ	CB,LL,RR	206	97	24.0	53	21	212	193	214						
Tracy Seeds	T095-29	CB,LL,RR	197	97	24.1	53	11	208	202	181	* 242	* 102	215	* 249	* 263	
NK Brand	NK9227-3220A-EZ1	CB,LL,RR-wo	177	89	24.3	53	27	209	135	186						
Viking	44-98	None	204	98	24.4	51	10	203	208	199	220	98	195	234	232	
LG Seeds	LG5505VT2RIB	CB,RR	204	98	24.5	54	10	207	209	198	231	101	* 240	232	222	
LG Seeds	LG5465VT2RIB	CB,RR	217	* 103	24.5	53	2	210	232	209	232	101	223	219	* 253	
Golden Harvest	G00H12-3010	CB,LL,RR	193	92	24.9	53	27	190	189	201						
ProHarvest	4990VT2PRIB	CB,RR	* 241	* 108	24.9	53	5	211	* 255	* 257	* 253	* 105	* 252	244	* 262	
Jung	47DP429	CB,RR	214	99	24.9	53	17	* 220	214	208	238	* 102	229	246	240	
LG Seeds	LG5494VT2RIB	CB,RR	192	93	25.0	51	20	206	195	176	228	100	221	243	222	
NK Brand	NK9930-3010	CB,LL,RR	207	98	25.2	52	13	200	219	203						
Dairyland	DS-4019AM	CB,LL,RR	204	99	25.2	49	3	200	225	187	* 255	* 104	* 238	* 269	* 259	
Jung	48DP420	CB,RR	* 227	* 104	25.2	51	6	* 217	234	230						
Legacy Seeds	L4118VT2P(RIB)	CB,RR	* 233	* 106	25.3	53	3	* 223	* 254	221						
AgriGold	A628-20VT2RIB	CB,RR	206	99	25.3	51	6	210	221	187	235	* 102	223	234	247	
Legacy Seeds	L3718DGV2P	CB,DT,RR	* 235	* 106	25.5	52	4	216	* 259	228	* 247	* 103	* 248	236	* 257	
Renk	RK579DGV2P	CB,DT,RR	* 232	* 106	25.5	52	3	210	* 263	223						
Tracy Seeds	T102-14(3011A)	CB,LL,RR,RW-wo	187	92	25.5	53	17	192	183	185	228	99	221	232	232	
InVision	FS 47TV1 RIB	CB,RR	* 226	* 104	25.5	51	3	210	* 250	218	222	98	223	199	244	
AgriGold	A629-22STXRIB	CB,LL,RR,RW	218	* 100	25.6	54	17	211	228	216	236	101	* 238	231	238	
Cornelius	C5713SS	CB,LL,RR,RW	198	98	25.7	53	2	203	214	177						
Viking	99-00	None	210	99	25.8	52	8	195	218	217						

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Table 9 (continued). South Central Zone - Early Maturity Grain Trial. (page 2 of 2)

101 day Relative Maturity or earlier based on company rating (Fond du Lac= FON, Galesville= GAL, Hancock= HAN)

Brand	Hybrid	Traits†	2019									2018				
			Average						Yield (bu/A)			Average		Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt. %	Lodge %	FON	GAL	HAN	Yield (bu/A)	P.I. #	FON	GAL	HAN	
Federal Hybrids	4990VT2PRIB	CB,RR	206	97	25.9	53	16	188	212	218						
100-DAY HYBRID TRIAL AVERAGE##			26.0													
Beck's	5113AM	CB,LL,RR	217	* 101	26.1	52	9	203	230	219						
DuPont Pioneer	P9998AMXT	CB,LL,RR,RW-wo	194	95	26.1	52	13	201	176	206	230	99	221	235	235	
InVision	FS 5098X RIB	CB,LL,RR,RW	* 234	* 106	26.2	51	2	* 232	* 255	215						
Dekalb	DKC49-44RIB	CB,LL,RR,RW	* 224	* 102	26.2	53	10	215	240	219						
Frontiersmen	100-W0VT2P	CB,RR	* 227	* 104	26.4	50	4	214	* 257	211						
InVision	FS 51QX1 RIB	CB,LL,RR,RW	199	96	26.5	53	9	199	216	182	237	101	231	231	* 249	
Croplan	4188VT2P	CB,RR	211	* 101	26.6	50	2	* 217	221	194						
Legacy Seeds	L4248VT2P	CB,RR	* 236	* 106	26.8	51	2	207	* 274	226						
Legend Seeds	LR9701GENSSRIB	CB,LL,RR,RW	197	96	27.0	51	6	191	210	189	226	99	230	215	233	
Stine	R9428-32	CB,LL,RR,RW	215	* 101	27.0	51	1	204	238	204						
Dairyland	DS-4018AM	CB,LL,RR	210	97	27.2	51	15	203	219	207						
AgriGold	A629-12VT2PRO	CB,RR	216	* 100	28.0	51	6	203	226	220						
LG Seeds	LG51C48VT2PRO	CB,RR	* 229	* 103	29.0	51	4	208	* 254	225						
Jung	51SS509	CB,LL,RR,RW	216	* 100	29.0	52	2	207	* 250	192	227	98	213	244	223	
MEAN			212	100	25.2	52	9	207	224	205	231	100	223	233	237	
LSD(0.10)**			21	8	1.9	1	16	15	33	19	16	3	17	21	25	

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 10. South Central Zone - Late Maturity Grain Trial. (page 1 of 2)

102 day Relative Maturity or later based on company rating (Fond du Lac= FON, Galesville= GAL, Hancock= HAN)

Brand	Hybrid	Traits†	2019							2018				
			Average				Yield (bu/A)		Average		Yield (bu/A)			
			Yield (bu/A)	P.I. #	Moist %	Test Wt. %	Lodge %	FON	HAN	Yield (bu/A)	P.I. #	FON	GAL	HAN
Golden Harvest	G03R40-3110	CB,LL,RR	206	* 103	25.7	53	0	196	* 217					
NK Brand	NK0472-3110	CB,LL,RR	201	* 101	26.2	53	1	188	214					
Brunner	EXP102	CB,LL,RR	* 207	* 102	26.5	53	0	193	* 221					
Dekalb	DKC52-35RIB	CB,RR	* 212	* 104	26.7	51	0	202	* 222					
Dairyland	DS-4317AM	CB,LL,RR	193	99	26.8	52	0	204	183	245	* 103	252 245 239		
Cornelius	6376	None	* 217	* 105	27.3	50	1	203	* 232	* 266	* 106	* 270 * 268 * 259		
Cornelius	C349SS	CB,LL,RR,RW	* 216	* 104	27.3	52	0	198	* 233					
Legacy Seeds	L5217VT2P(RIB)	CB,RR	* 218	* 105	27.5	52	0	* 215	* 222					
Legend Seeds	LR9903GENSSRIB	CB,LL,RR,RW	206	* 101	27.7	52	1	201	210					
Federal Hybrids	5280VT2PRIB	CB,RR	* 221	* 105	27.9	51	0	* 209	* 233					
Tracy Seeds	T102-29 (3122EZ)	CB,LL,RR,RW	165	91	28.0	52	0	163	167					
NK Brand	NK0243-3120-EZ1	CB,LL,RR	197	99	28.1	49	0	192	203					
Renk	RK621VT2P	CB,RR	* 210	* 102	28.3	51	0	* 211	208					
DuPont Pioneer	P0306AM	CB,LL,RR	192	98	28.3	51	1	197	187	240	101	234 246 240		
100-DAY HYBRID TRIAL AVERAGE##					28.3									
Dairyland	DS-4440AM	CB,LL,RR	196	99	28.4	51	1	193	199					
Renk	RK642VT2P	CB,RR	205	* 101	28.4	51	0	197	214					
Dairyland	DS-4580CYXR	CB,LL,RR,RW	* 207	* 102	28.4	52	0	204	211					
AgriGold	A632-07STX	CB,LL,RR,RW	* 210	* 102	28.6	53	1	* 220	200					
Cornelius	C461SS	CB,LL,RR,RW	205	* 101	28.7	51	0	199	211					
InVision	FS 53ZX1 RIB	CB,LL,RR,RW	* 214	* 103	28.7	51	0	* 208	* 219	238	100	236 235 242		
ProHarvest	6420SX RIB	CB,LL,RR,RW	188	97	29.0	52	0	184	192	229	99	230 224 234		
Renk	RK626SSTX	CB,LL,RR,RW	* 213	* 103	29.0	50	0	199	* 227					
Golden Harvest	G02K39-3120 EZ	CB,LL,RR	188	97	29.1	48	1	189	188					
Jung	7S522RIB	CB,LL,RR,RW	186	96	29.3	51	0	181	191	218	97	221 201 231		
Viking	55-02	None	205	100	29.4	53	2	195	* 215	235	100	238 214 253		
Viking	84-05	None	* 212	* 102	29.4	51	0	* 214	210					
Dekalb	DKC54-65RIB	CB,RR	* 223	* 105	29.5	52	0	* 219	* 228					
Dekalb	DKC53-27RIB	CB,LL,RR,RW	198	99	29.6	50	0	195	202					
Dupont Pioneer	P0389AMXT	CB,LL,RR,RW	187	96	29.8	51	1	182	193					
Cornelius	6438DP	CB,RR	203	100	29.8	51	0	196	209					
Cornelius	C385SS	CB,LL,RR,RW	* 210	* 102	29.8	52	0	* 210	210	248	* 103	240 * 250 253		
Renk	RK717SSTX	CB,LL,RR,RW	190	97	29.9	52	1	203	178	234	100	228 246 227		
105-DAY HYBRID TRIAL AVERAGE##					30.0									
Jung	52SS507RIB	CB,LL,RR,RW	202	99	30.1	51	0	194	210	241	101	239 243 240		

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Table 10 (continued). South Central Zone - Late Maturity Grain Trial. (page 2 of 2)

102 day Relative Maturity or later based on company rating (Fond du Lac= FON, Galesville= GAL, Hancock= HAN)

Brand	Hybrid	Traits†	2019							2018				
			Average				Yield (bu/A)			Average		Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt. %	Lodge %	FON	HAN	Yield (bu/A)	P.I. #	FON	GAL	HAN
Legacy Seeds	L5319SSX	CB,LL,RR,RW	* 218	* 103	30.2	50	0	* 209	* 226					
Cornelius	C6401SS	CB,LL,RR,RW	* 221	* 104	30.4	51	0	* 210	* 231					
ProHarvest	X19560	CB,LL,RR,RW	* 214	* 102	30.6	49	0	* 213	* 215					
Brunner	4044	None	* 208	* 101	30.6	50	0	* 212	205	238	101	237	245	232
Renk	RK710DGVT2P	CB,DT,RR	206	100	30.8	51	0	199	212	* 252	* 104	* 256	* 253	247
Cornelius	C478DP	CB,RR	* 220	* 103	30.8	53	1	* 211	* 229	* 255	* 104	243	* 263	* 261
Legacy Seeds	L5519DGVT2P	CB,DT,RR	* 207	100	30.9	51	0	196	* 218					
Legend Seeds	LR9008GENSSRIB	CB,LL,RR,RW	206	100	31.1	53	0	* 212	200					
Tracy Seeds	T104-26 (3122EZ)	CB,LL,RR,RW	196	97	31.5	50	0	186	206	217	96	216	216	218
Dekalb	DKC55-53RIB	CB,LL,RR,RW	204	99	31.5	51	1	197	212					
InVision	FS 5594X RIB	CB,LL,RR,RW	* 214	* 102	31.7	52	0	* 210	* 218					
Dairyland	DS-4310YHR	CB,LL,RR	205	99	31.7	52	0	200	209					
Renk	RK737SSTX	CB,LL,RR,RW	* 208	100	31.8	52	0	201	* 215	250	* 103	242	241	* 266
Legend Seeds	LR9905 VIP3220	CB,LL,RR	191	95	31.8	50	5	172	210					
NK Brand	NK0440-3122-EZ1	CB,LL,RR,RW	201	98	32.0	49	1	188	213					
Legacy Seeds	L5438-3010	CB,LL,RR	204	99	32.0	50	3	191	* 218					
Dairyland	DS-4329AM	CB,LL,RR	191	96	32.2	49	0	187	194	* 251	* 104	240	* 253	* 260
LG Seeds	LG5525VT2RIB	CB,RR	204	99	32.3	53	0	197	210	243	101	246	232	252
InVision	FS 55RL1 EZR	CB,LL,RR	182	93	32.6	50	1	166	197					
Dairyland	DS-7004RA	CB,LL,RR	194	96	32.7	49	0	190	199					
DuPont Pioneer	P0574AMXT	CB,LL,RR,RW	182	93	33.1	51	0	182	183					
MEAN			203	100	29.6	51	0	198	209	237	100	237	235	238
LSD(0.10)**			16	4	2.1	3	2	15	18	15	3	15	20	15

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 11. North Central Zone - Early Maturity Grain Trial. (page 1 of 2)

94 day Relative Maturity or earlier based on company rating (Chippewa Falls= CHP, Marshfield= MAR, Seymour= SEY, Valders= VAL)

Brand	Hybrid	Traits†	2019									2018					
			Average					Yield (bu/A)				Average		Yield (bu/A)			
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	CHP	SEY	VAL	Yield (bu/A)	P.I. #	CHP	MAR	SEY	VAL	
InVision	FS 37TV1 RIB	CB,RR	164	94	22.5	51	2	181	170	142	206	99	210	168	217	* 229	
NK Brand	NK8881-3010A	CB,LL,RR-wo	193	101	23.7	52	2	207	185	187							
Brunner	2897GT-3010	CB,LL,RR	191	100	23.8	52	4	215	193	165							
Thunder Seed	6090 3120	CB,LL,RR	184	98	24.1	51	3	200	171	180							
InVision	FS 35SV1 RIB	CB,RR	172	95	24.1	52	2	180	174	161	184	94	173	169	195	199	
Tracy Seeds	T094-31	CB,LL,RR	191	100	24.6	52	3	216	193	164							
Federal Hybrids	4160VT2PRIB	CB,RR	* 204	* 104	24.6	51	1	* 219	* 205	187	220	* 102	230	* 207	216	* 228	
Foundation Direct	8885GTCBLLBL	CB,LL,RR,RW	177	96	24.6	52	4	199	174	157							
Augusta Seed	A2039-3120GTEZ	CB,LL,RR	191	100	24.7	50	5	* 218	188	166							
Foundation Direct	8855	None	197	102	24.9	51	2	211	196	183	205	98	220	173	205	222	
LG Seeds	LG42C63VT2RIB	CB,RR	183	98	24.9	50	3	197	192	160							
Tracy Seeds	T093-26A	CB,LL,RR-wo	178	96	25.0	53	4	189	171	172	205	98	228	173	202	218	
NK Brand	NK9175-3110A	CB,LL,RR-wo	180	95	25.0	52	12	* 219	168	152							
Renk	RK433VT2P	CB,RR	188	99	25.1	51	1	197	197	169							
Legacy Seeds	L3048VT2P	CB,RR	193	100	25.1	51	6	206	* 217	155							
Legacy Seeds	L2918VT2P	CB,RR	192	101	25.4	50	1	198	185	* 194							
Dekalb	DKC43-75RIB	CB,RR	* 213	* 106	25.5	51	2	* 224	* 208	* 208							
Thunder Seed	6992 VT2P	CB,RR	198	102	25.6	51	1	203	* 218	174							
Viking	42-92	None	193	100	25.6	51	1	212	* 200	167	221	* 102	232	198	216	* 237	
Tracy Seeds	T089-29(3220)	CB,LL,RR	195	100	25.8	51	6	* 218	* 205	160	215	101	221	190	214	* 236	
90-DAY HYBRID TRIAL AVERAGE##			25.8														
Thunder Seed	6791 VT2P	CB,RR	189	99	25.8	50	1	197	197	173							
Dekalb	DKC41-99RIB	CB,RR	200	102	25.9	51	1	209	* 214	177							
Jung	4D381RIB	CB,RR	194	100	26.0	51	1	216	* 202	164	220	101	233	200	225	221	
Legacy Seeds	L3419VT2P	CB,RR	* 218	* 107	26.2	51	2	* 223	* 214	* 218							
Federal Hybrids	4190VT2PRIB	CB,RR	191	100	26.2	51	2	194	* 205	175	203	98	205	186	201	218	
ProHarvest	X17320	CB,RR	199	102	26.2	50	1	212	* 214	169							
Frontiersmen	090-H8VT2P	CB,RR	197	101	26.2	51	2	* 219	* 213	160	222	* 102	235	* 202	220	* 231	
DuPont Pioneer	P9492AM	CB,LL,RR	* 212	* 105	26.4	50	1	* 240	* 210	186	* 236	* 105	238	* 212	* 246	* 248	
Jung	42DP419	CB,RR	200	102	26.4	55	3	* 226	194	181	* 228	* 104	241	200	220	* 251	
InVision	FS 41TV1 RIB	CB,RR	199	101	26.5	51	2	* 220	* 204	172	217	101	231	* 203	207	* 226	
ProHarvest	4255VT2PRIB	CB,RR	179	97	26.5	51	0	181	189	167							
LG Seeds	LG44C27VT2RIB	CB,RR	202	102	26.7	50	1	216	* 207	182	* 230	* 104	* 247	* 207	* 235	* 233	
95-DAY HYBRID TRIAL AVERAGE##			26.7														
Dekalb	DKC42-04RIB	CB,LL,RR,RW	183	97	26.9	50	3	194	187	169							

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Table 11 (continued). North Central Zone - Early Maturity Grain Trial. (page 2 of 2)

94 day Relative Maturity or earlier based on company rating (Chippewa Falls= CHP, Marshfield= MAR, Seymour= SEY, Valders= VAL)

Brand	Hybrid	Traits†	2019									2018					
			Average					Yield (bu/A)				Average		Yield (bu/A)			
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	CHP	SEY	VAL	Yield (bu/A)	P.I. #	CHP	MAR	SEY	VAL	
Dekalb	DKC44-80RIB	CB,RR	* 208	* 103	27.1	50	3	* 230	* 206	187							
Jung	41DP400	CB,RR	199	101	27.1	50	1	208	193	* 195							
Thunder Seed	6094 VT2P	CB,RR	* 206	* 103	27.4	51	2	* 220	* 200	* 196							
NK Brand	NK9227-3220A-EZ1	CB,LL,RR-wo	194	99	27.5	50	2	* 230	179	173							
AgriGold	A621-77STXRIB	CB,RR	189	98	27.6	49	3	201	194	171	219	101	226	* 205	208	* 239	
AgriGold	A624-06VT2PRO	CB,RR	191	98	28.4	50	5	197	195	182							
LG Seeds	LG5410VT2RIB	CB,RR	* 203	102	28.7	49	1	* 231	193	186	214	100	217	* 205	208	* 227	
Legend Seeds	LR9993GENSSRIB	CB,LL,RR,RW	186	97	28.7	50	1	210	175	172							
Thunder Seed	6993 VT2P	CB,RR	* 203	101	29.9	51	1	212	* 213	184							
MEAN			193	100	25.9	51	2	209	195	175	213	100	223	190	212	227	
LSD(0.10)**			15	4	1.8	2	3	23	18	26	13	3	19	17	18	25	

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, Ify=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

‡ All plots of this hybrid sustained herbicide damage in the Seymour trial. The hybrid was dropped from the multi-location average analysis.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 12. North Central Zone - Late Maturity Grain Trial. (page 1 of 2)

95 day Relative Maturity or later based on company rating (Chippewa Falls= CHP, Marshfield= MAR, Seymour= SEY, Valders= VAL)

Brand	Hybrid	Traits†	2019									2018					
			Average				Yield (bu/A)					Average		Yield (bu/A)			
			Yield (bu/A)	P.I. #	Moist %	Test Wt. %	Lodge %	CHP	SEY	VAL	Yield (bu/A)	P.I. #	CHP	MAR	SEY	VAL	
Dairyland	DS-3519AM	CB,LL,RR	* 199	* 104	27.2	52	0	* 229	210	* 159	222	100	236	190	214	247	
ProHarvest	4825SXRIB	CB,LL,RR,RW	168	97	27.7	52	0	165	186	154	223	100	234	197	226	232	
Dairyland	DS-3750YHR	CB,LL,RR	* 201	* 104	27.9	54	1	* 229	208	* 166							
Legacy Seeds	L3537-3220	CB,LL,RR	183	99	27.9	51	1	* 230	181	140							
Augusta Seed	A2345-3220GTEZ	CB,LL,RR	* 197	* 103	28.1	50	1	* 247	191	154							
Tracy Seeds	T095-29	CB,LL,RR	167	95	28.1	52	1	199	151	150	218	99	227	199	210	235	
Legend Seeds	LR9895VT2PRIB	CB,RR	* 196	* 103	28.2	51	0	222	195	* 171	215	99	239	* 205	202	215	
Dairyland	DS-3810YHR	CB,LL,RR	* 205	* 104	28.7	52	1	* 252	211	152							
Renk	RK561DGVT2P	CB,DT,RR	* 196	* 102	28.9	50	0	* 234	198	155							
Legend Seeds	LR9995 VIP3220	CB,LL,RR	* 191	* 101	29.1	52	2	* 232	185	155							
NK Brand	NK9610-3010	CB,LL,RR	187	* 100	29.2	52	1	219	195	147							
Viking	52-96	None	* 206	* 105	29.2	51	0	* 241	209	* 169							
Renk	RK587VT2P	CB,RR	186	99	29.4	51	4	212	188	* 159	216	99	212	* 208	219	225	
Federal Hybrids	4880VT2PRIB	CB,RR	177	97	29.6	51	0	223	167	142							
AgriGold	A625-78VT2RIB	CB,RR	* 193	* 101	29.6	51	1	220	193	* 167							
NK Brand	NK9930-3010	CB,LL,RR	180	98	29.6	51	1	201	191	148							
Brunner	EXP95A	CB,LL,RR	* 192	* 100	29.7	51	1	* 238	192	147	227	* 103	* 260	203	222	224	
LG Seeds	LG5465VT2RIB	CB,RR	* 201	* 104	29.7	51	0	219	202	* 181	233	* 103	237	* 214	218	* 263	
Dairyland	DS-3550YHR	CB,LL,RR	* 207	* 105	29.8	50	0	* 236	* 231	155							
InVision	FS 45SV1 RIB	CB,RR	170	95	30.0	50	6	187	169	154	202	97	201	183	190	234	
Dairyland	DS-3518AMXT	CB,LL,RR,RW	178	97	30.1	51	1	204	194	136	233	* 102	240	198	* 233	* 263	
Jung	46SS427RIB	CB,LL,RR,RW	185	99	30.2	51	0	* 226	174	155	220	* 101	218	* 210	213	239	
ProHarvest	4990VT2PRIB	CB,RR	* 208	* 105	30.3	52	4	* 239	209	* 178	* 242	* 104	* 261	* 215	* 237	* 255	
ProHarvest	4630VT2PRIB	CB,RR	* 198	* 102	30.3	52	0	* 233	208	153	222	* 101	232	* 215	212	230	
95-DAY HYBRID TRIAL AVERAGE##					30.3												
Legacy Seeds	L3517VT2P(RIB)	CB,RR	* 194	* 101	30.4	51	1	* 229	207	146	230	* 102	233	* 206	219	* 265	
Dekalb	DKC47-54RIB	CB,LL,RR,RW	* 202	* 103	30.6	52	0	* 244	194	* 168							
Federal Hybrids	4680VT2PRIB	CB,RR	185	98	30.7	50	0	* 228	180	145	229	* 102	* 253	* 212	213	237	
Federal Hybrids	4580VT2PRIB	CB,RR	* 200	* 102	30.8	51	1	* 245	199	156	227	* 102	248	* 215	214	232	
Dairyland	DS-3715AM	CB,LL,RR	* 204	* 103	30.8	49	1	* 232	* 223	157	232	* 102	242	* 206	220	* 263	
Frontiersmen	096-R8VT2P	CB,RR	* 204	* 103	31.3	52	0	* 250	207	155							
Viking	44-98	None	183	97	31.3	50	8	215	180	155	216	99	198	* 208	221	236	
Thunder Seed	6595 VT2P	CB,RR	178	96	31.6	50	1	206	187	142							
Thunder Seed	6996 VT2P	CB,RR	* 199	* 102	31.7	51	0	* 235	207	157							
InVision	FS 47TV1 RIB	CB,RR	185	98	31.8	50	0	212	192	152							

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Table 12 (continued). North Central Zone - Late Maturity Grain Trial. (page 2 of 2)

95 day Relative Maturity or later based on company rating (Chippewa Falls= CHP, Marshfield= MAR, Seymour= SEY, Valders= VAL)

Brand	Hybrid	Traits†	2019									2018				
			Average			Yield (bu/A)			Average			Yield (bu/A)				
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	CHP	SEY	VAL	Yield (bu/A)	P.I. #	CHP	MAR	SEY	VAL
Thunder Seed	6098 VT2P	CB,RR	180	97	31.9	51	1	195	191	153						
LG Seeds	LG5494VT2RIB	CB,RR	* 195	* 100	32.0	50	0	224	207	153	228	* 101	249	201	217	245
DuPont Pioneer	P9998AMXT	CB,LL,RR,RW-wo	* 197	* 101	32.0	51	0	* 229	195	* 166	232	* 102	235	* 208	* 233	* 253
100-DAY HYBRID TRIAL AVERAGE##					32.1											
ProHarvest	4545VT2PRIB	CB,RR	188	98	32.3	50	1	216	202	148						
AgriGold	A627-83VT2RIB	CB,RR	188	98	32.4	52	0	215	200	150						
Legacy Seeds	L3617VT2P(RIB)	CB,RR	183	97	32.5	51	1	207	196	146	223	100	228	* 216	218	231
Renk	RK579DGV2P	CB,DT,RR	* 208	* 103	32.5	51	1	* 233	* 225	* 166	227	* 101	230	* 212	224	242
Renk	RK593VT2P	CB,RR	* 204	* 103	32.6	51	1	223	213	* 175						
Federal Hybrids	4999VT2PRIB	CB,RR	* 201	* 101	32.7	52	2	* 235	* 219	148						
NK Brand	NK0243-3120-EZ1	CB,LL,RR	185	97	33.1	49	3	206	209	141						
Legacy Seeds	L3718DGV2P	CB,DT,RR	* 204	* 102	33.2	51	1	* 238	198	* 176	227	* 101	222	200	224	* 264
Project Seeds	PS1898GT	RR	172	92	33.3	52	12	204	149	* 164						
Federal Hybrids	4990VT2PRIB	CB,RR	187	97	33.5	52	1	* 240	178	144						
Federal Hybrids	4700SS	CB,LL,RR,RW	* 196	99	34.1	53	0	* 229	207	152						
ProHarvest	X19473	CB,RR	* 204	* 101	34.3	52	2	* 233	209	* 169						
Dairyland	DS-4018AM	CB,LL,RR	* 193	99	34.4	51	1	221	207	151	206	96	220	203	194	208
Federal Hybrids	5000VT2P	CB,RR	* 198	99	35.3	51	2	* 245	204	145						
Dekalb	DKC49-44RIB	CB,LL,RR,RW	185	95	35.6	51	0	* 232	191	132						
MEAN			192	100	30.9	51	1	224	196	155	223	100	232	206	215	238
LSD(0.10)**			17	5	3.4	3	4	26	17	22	13	3	22	14	20	28

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 13. Northern Zone Grain Trial. (page 1 of 2)

(Coleman= COL, Marshfield= MAR, Spooner dryland sand= SPD, Spooner irrigated sand= SPI, Spooner dryland silt loam= SPS)

Brand	Hybrid	Traits†	2019										2018						
			Average					Yield (bu/A)					Average		Yield (bu/A)				
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	COL	SPD	SPI	SPS	Yield (bu/A)	P.I. #	COL	MAR	SPD	SPI	SPS	
Jung	32DP300	CB,RR	176	101	19.7	54	1	197	167	155	186								
Dekalb	DKC32-12RIB	CB,RR	165	98	19.8	55	2	182	154	165	161								
LG Seeds	LG30C02VT2RIB	CB,RR	167	99	20.4	54	1	187	154	160	169	187	98	201	163	183	196	193	
80-DAY HYBRID TRIAL AVERAGE##			21.0																
Dairyland	DS-2220AM	CB,LL,RR	174	100	21.0	54	1	190	156	178	172								
Jung	31DP308	CB,RR	155	94	21.2	53	1	189	145	127	158	166	94	201	134	157	159	179	
ProHarvest	2225VT2PRIB	CB,RR	162	96	21.6	54	2	177	152	157	160								
Legacy Seeds	L2347VT2P(RIB)	CB,RR	172	99	21.7	53	0	182	177	148	183								
Thunder Seed	6085 VT2P	CB,RR	161	96	21.7	52	1	181	150	139	173								
Federal Hybrids	3660GT3011A	CB,LL,RR,RW-wo	177	100	22.2	54	5	177	177	173	182	185	97	208	176	163	180	198	
LG Seeds	LG5375VT2RIB	CB,RR	185	* 103	22.3	54	0	198	168	* 185	190	184	98	200	150	184	189	198	
Project Seeds	PS1885GT	RR	170	97	22.4	54	11	147	157	* 199	177								
Federal Hybrids	3570VT2PRIB	CB,RR	163	96	22.4	53	2	178	155	143	177	181	96	214	168	162	179	179	
InVision	FS 35SV1 RIB	CB,RR	165	97	22.9	53	1	182	154	148	176	185	97	204	170	165	187	199	
Renk	RK278VT2P	CB,RR	180	101	22.9	53	1	193	166	182	178								
Thunder Seed	6987 VT2P	CB,RR	180	101	23.0	52	1	190	163	* 192	176								
Brunner	2897GT-3010	CB,LL,RR	183	101	23.0	53	7	183	* 184	179	188	202	101	224	177	176	* 218	213	
Renk	RK264RR	RR	170	98	23.1	53	3	176	159	161	183	185	97	226	161	177	161	199	
ProHarvest	2749VT2PRIB	CB,RR	185	102	23.1	53	1	* 218	170	169	182	197	100	213	180	179	185	* 226	
InVision	FS 37TV1 RIB	CB,RR	180	101	23.2	52	1	197	157	* 186	179	198	101	224	171	194	197	203	
LG Seeds	LG5370VT2RIB	CB,RR	186	102	23.3	53	1	202	175	180	186	184	98	196	167	183	177	196	
Dairyland	EXP-08508AMXT	CB,LL,RR,RW	187	* 103	23.4	52	2	187	165	* 205	192								
Dairyland	DS-3030AM	CB,LL,RR	* 205	* 108	23.4	51	0	* 223	* 194	* 197	* 204								
Frontiersmen	081-Y0-3110A	CB,LL,RR	159	95	23.4	54	2	178	136	159	163								
85-DAY HYBRID TRIAL AVERAGE##			23.4																
Foundation Direct	8978GT	RR	166	95	23.4	54	9	130	162	176	195	188	98	214	168	167	197	196	
Federal Hybrids	3790VT2PRIB	CB,RR	172	98	23.6	52	1	195	164	154	175	202	101	229	197	178	198	207	
Frontiersmen	087-E7VT2P	CB,RR	183	101	23.7	52	1	* 212	159	175	186								
Dekalb	DKC37-50RIB	CB,RR	183	101	23.8	52	0	* 211	168	163	190	196	100	227	178	178	207	193	
LG Seeds	LG38C18VT2RIB	CB,RR	181	100	23.8	51	3	181	172	178	191	192	99	233	173	195	150	209	
Jung	37SS328	CB,LL,RR,RW	171	98	24.0	54	3	185	171	143	187	201	102	230	180	197	201	199	
Legacy Seeds	L2918VT2P	CB,RR	186	102	24.1	52	3	206	170	175	192								
Renk	RK287VT2P	CB,RR	184	101	24.2	52	4	182	176	* 185	193	* 220	* 106	* 244	195	* 198	* 232	* 229	
Jung	39DP338	CB,RR	188	102	24.2	52	6	189	* 189	172	* 204	* 227	* 108	242	* 211	* 217	* 221	* 246	
Jung	36DP318	CB,RR	190	* 103	24.2	52	1	206	170	* 187	* 197	196	100	217	171	196	194	200	

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Table 13 (continued). Northern Zone Grain Trial. (page 2 of 2)

(Coleman=COL, Spooner dryland sand = SPD, Spooner irrigated sand = SPI, Spooner dryland silt loam = SPS)

Brand	Hybrid	Traits†	2019										2018						
			Average					Yield (bu/A)					Average		Yield (bu/A)				
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	COL	SPD	SPI	SPS	Yield (bu/A)	P.I. #	COL	MAR	SPD	SPI	SPS	
Jung	36DP310	CB,RR	169	97	24.4	53	2	173	168	150	185								
Thunder Seed	6986 VT2P	CB,RR	178	100	24.4	51	0	199	159	173	183								
Renk	RK312VT2P	CB,RR	182	100	24.7	52	4	188	163	*191	187								
Legend Seeds	JSC47J086 VIP3220	CB,LL,RR	167	95	24.7	54	8	160	159	175	176								
NK Brand	NK8881-3010A	CB,LL,RR-wo	172	98	24.9	52	2	194	171	152	171	210	103	242	*200	170	208	*230	
NK Brand	NK8519-3220-EZ1	CB,LL,RR	179	100	24.9	52	1	193	164	166	194								
ProHarvest	X17315	CB,RR	179	100	25.0	52	2	181	168	171	*198								
Legend Seeds	LR9886VT2PRIB	CB,RR	176	98	25.0	52	5	171	171	171	190								
NK Brand	NK8920-3120-EZ1	CB,LL,RR	167	95	25.1	51	9	161	163	160	185								
Thunder Seed	6888 VT2P	CB,RR	188	102	25.5	52	1	198	168	*191	*196								
90-DAY HYBRID TRIAL AVERAGE##			25.5																
Dairyland	DS-3370YHR	CB,LL,RR	190	102	25.6	52	1	*211	*188	168	191								
Legacy Seeds	L3048VT2P	CB,RR	191	102	25.9	52	1	202	173	181	*210								
Renk	RK433VT2P	CB,RR	191	*103	26.2	51	0	198	176	*197	194								
DuPont Pioneer	P9492AM	CB,LL,RR	*204	*106	26.2	50	0	*236	*191	*190	*200	*219	104	*255	*214	196	*211	219	
Dairyland	DS-3519AM	CB,LL,RR	*195	*103	26.3	53	3	*214	175	*184	*206								
Federal Hybrids	4160VT2PRIB	CB,RR	184	99	26.4	51	7	181	175	*187	193	214	104	241	194	*204	208	223	
Federal Hybrids	4190VT2PRIB	CB,RR	182	100	26.4	51	1	194	161	180	194	196	100	220	188	176	200	195	
NK Brand	NK9175-3110A	CB,LL,RR-wo	*198	*104	26.7	51	1	*226	*189	172	*204								
Project Seeds	PS1893GT	CB,LL,RR	183	100	26.8	51	0	*213	152	*189	178								
ProHarvest	4255STAXRIB	CB,LL,RR,RW	180	99	26.8	51	1	196	173	164	188	213	103	*255	*199	*198	195	216	
95-DAY HYBRID TRIAL AVERAGE##			27.1																
InVision	FS 41TV1 RIB	CB,RR	190	101	28.0	51	3	*221	164	168	*205	*223	*106	*260	*210	*208	*215	221	
ProHarvest	4340VT2PRIB	CB,RR	*202	*104	28.4	52	1	*230	178	*191	*209	*218	*105	*265	*201	*216	182	225	
NK Brand	NK9227-3220A-EZ1	CB,LL,RR-wo	183	99	28.6	50	2	207	170	172	183								
Dairyland	DS-3550YHR	CB,LL,RR	*206	*105	29.0	49	1	*229	*198	*189	*209								
MEAN			180	100	24.1	52	2	193	168	172	187	198	100	224	183	184	188	206	
LSD(0.10)**			14	5	1.4	1	6	27	15	22	14	12	3	22	15	19	23	20	

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, Ify=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 14. Southern Zone - Early Maturity Silage Trial. (page 1 of 2)

110 day Relative Maturity or earlier based on company rating (Arlington= ARL, Montfort=MON)

Brand	Hybrid	Traits†	2019								2018					
			Average			Moist	NDF	NDFD	Starch	Yield (T/A)		Average			Yield (T/A)	
			Yield (T/A)	Milk per Ton	Milk per Acre					ARL	MON	Yield (T/A)	Milk per Ton	Milk per Acre	ARL	MON
Viking	51-04GS	None	* 11.4	* 3210	* 36500	68.1	39	57	31	* 11.2	* 11.5	* 11.5	3280	37800	12.1	10.9
Jung	58SS537RIB	CB,LL,RR,RW	* 11.2	3100	* 34800	68.5	39	54	30	* 10.4	* 12.0					
NK Brand	NK0624-3220-EZ1	CB,LL,RR	* 10.7	* 3350	* 36100	69.1	39	60	31	9.6	* 11.8	11.1	3370	37600	12.2	10.0
Prairie Hybrids	5787	None	* 11.9	* 3200	* 38200	69.5	38	57	31	* 12.0	* 11.9					
O'Brien Hybrids	OBX1185	None	* 12.1	* 3160	* 38100	69.9	40	56	29	* 12.0	* 12.1					
Viking	48-08	None	* 10.9	* 3200	* 35200	69.9	39	55	31	* 11.0	* 10.8	11.2	3310	37200	* 12.8	9.6
LG Seeds	LG59C66VT2RIB	CB,RR	* 11.6	2960	* 34600	70.3	42	53	26	* 10.2	* 12.9	* 12.4	3220	39900	* 13.4	* 11.4
Dekalb	DKC59-07RIB	CB,LL,RR,RW	* 11.2	* 3190	* 35700	70.7	39	55	31	* 11.2	* 11.1	10.5	3380	35600	11.6	9.5
Masters Choice	MC5790	None	* 11.7	* 3240	* 37800	70.7	39	56	31	* 11.1	* 12.2	* 11.5	3240	37200	11.9	* 11.1
105-DAY HYBRID TRIAL AVERAGE##						70.7										
Dekalb	DKC60-67RIB	CB,LL,RR,RW	10.2	2990	30400	70.9	40	53	27	9.2	* 11.2					
Dairyland	DS-4840AM	CB,LL,RR	* 10.5	3010	* 31700	71.0	40	55	27	* 10.8	10.2					
Masters Choice	MCT5454-3111	CB,LL,RR,RW	8.7	3100	27000	71.2	40	53	29	8.5	9.0	10.8	3230	34800	11.3	10.3
Prairie Hybrids	5200	None	* 11.5	3020	* 34800	71.3	40	54	27	* 11.0	* 12.0	* 12.1	3310	39900	* 12.4	* 11.7
LG Seeds	LG5590VT2P	CB,RR	* 10.7	3110	* 33200	71.6	42	56	28	* 10.1	* 11.3					
Dairyland	HiDF3308AM	CB,LL,RR	* 12.1	* 3160	* 38200	71.7	40	58	28	* 12.1	* 12.0					
InVision	FS 60UX1 RIB	CB,LL,RR,RW	* 10.4	* 3260	* 33700	71.7	38	56	31	9.2	* 11.6	11.1	* 3410	37700	11.2	10.9
Power Plus	4Y34AM	CB,LL,RR	10.3	* 3140	* 32300	71.8	40	57	28	* 10.5	10.1					
110-DAY HYBRID TRIAL AVERAGE##						71.9										
Viking	O.74-10GS	None	* 10.7	3100	* 33500	72.0	42	57	27	9.3	* 12.2	11.4	3380	38700	11.3	* 11.5
Latham	6143-3010A	CB,LL,RR-wo	9.7	3120	30400	72.1	41	57	28	9.6	9.8					
AgriGold	A639-40VT2RIB	CB,RR	9.9	2980	29900	72.1	43	54	26	9.5	10.2	11.3	3240	36700	11.8	10.9
AgriGold	A638-84	None	* 11.3	* 3140	* 35600	72.2	42	55	28	* 10.5	* 12.0					
NK Brand	NK0440-3122-EZ1	CB,LL,RR,RW	9.2	2980	27400	72.5	44	54	25	7.6	* 10.8					
NK Brand	NK1082-3330A-EZ1	CB,LL,RR-wo	8.5	3110	26500	72.6	41	55	28	9.2	7.7					
AgriGold	A639-70STX	CB,LL,RR,RW	9.2	* 3140	28500	72.6	42	57	27	7.3	* 11.0					
O'Brien Hybrids	OB1109	None	* 11.4	3120	* 35500	72.7	41	57	28	* 10.9	* 11.9	10.1	3250	33100	9.3	10.9
Golden Harvest	G10T63-3120 EZ	CB,LL,RR	* 11.9	3020	* 36200	72.7	42	54	26	* 12.3	* 11.5					
Channel	209-15STXRIB	CB,LL,RR,RW	8.1	* 3250	26300	72.8	40	58	29	5.7	10.6	10.8	3360	37000	11.1	10.5
Dairyland	HiDF3407RA	CB,LL,RR,RW	* 10.8	2740	29500	72.8	45	50	23	* 10.8	10.7	* 11.8	3210	37900	* 12.7	10.9

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Table 14 (continued). Southern Zone - Early Maturity Silage Trial. (page 2 of 2)

110 day Relative Maturity or earlier based on company rating (Arlington= ARL, Montfort=MON)

Brand	Hybrid	Traits†	2019								2018					
			Average			Moist	NDF	NDFD	Starch	Yield (T/A)		Average			Yield (T/A)	
			Yield (T/A)	Milk per Ton	Milk per Acre					ARL	MON	Yield (T/A)	Milk per Ton	Milk per Acre	ARL	MON
AgriGold	A640-77VT2RIB	CB,LL,RR,RW	* 10.5	* 3200	* 33600	73.0	41	56	29	* 10.2	* 10.8					
Channel	210-98STXRIB	CB,LL,RR,RW	10.3	2870	29500	73.3	44	56	23	* 9.9	10.7	10.3	3030	31300	9.9	10.7
AgriGold	A638-44DGV2PRO	CB,DT,RR	* 11.2	3030	* 33800	73.9	42	54	27	* 10.6	* 11.7					
Blue River Organic	62G22	None	* 11.4	3060	* 35000	74.3	44	54	27	* 11.3	* 11.4					
NK Brand	NK1066-3122-EZ1	CB,LL,RR,RW	9.9	2790	28100	75.3	45	52	22	8.0	* 11.9	* 12.4	3230	40000	* 13.0	* 11.8
MEAN			10.6	3090	33000	71.7	41	55	27.8	10.1	11.2	11.3	3310	37400	11.8	10.7
LSD(0.10)**			1.8	210	6500	2.5	3	2	4.3	2.6	2.1	1.3	140	4800	1.8	1.2

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lf=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average whole plant moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 15. Southern Zone - Late Maturity Silage Trial. (page 1 of 2)

111 day Relative Maturity or later based on company rating (Arlington= ARL, Montfort=MON)

Brand	Hybrid	Traits†	2019								2018					
			Average			Average				Yield (T/A)		Average			Yield (T/A)	
			Yield (T/A)	Milk per Ton	Acre	Moist %	NDF %	NDFD %	Starch %	ARL	MON	Yield (T/A)	Milk per Ton	Acre	ARL	MON
Cornelius	C7125DP	CB,RR	* 11.7	* 3250	* 38200	70.0	40	56	30	* 11.2	* 12.3					
Latham	LH6175VT2PRO	CB,RR	* 10.4	* 3090	* 32400	70.1	41	53	29	* 9.7	11.2					
InVision	FS 62ZX1 RIB	CB,LL,RR,RW	* 11.1	* 3170	* 34800	70.2	40	56	29	* 9.7	* 12.5	11.3	3200	36200	12.2	10.3
Cornelius	C7366DGDP	CB,DT,RR	* 11.5	* 3050	* 35100	70.4	41	56	27	* 12.1	10.9					
NK Brand	NK1460-3110	CB,LL,RR	* 12.0	* 3210	* 38400	70.5	40	53	31	* 12.4	* 11.5					
Cornelius	C7551SS	CB,LL,RR,RW	* 11.4	2940	* 33400	70.6	42	55	25	* 10.1	* 12.6					
LG Seeds	LG62C02VT2RIB	CB,RR	* 11.6	* 3110	* 36200	71.1	41	57	28	* 10.1	* 13.1					
Legend Seeds	LR9912GENSSRIB	CB,LL,RR,RW	* 10.9	* 3020	* 32900	71.1	41	56	26	* 9.4	* 12.5	11.1	3180	35300	11.8	10.4
Prairie Hybrids	7781 ORG	None	* 10.7	* 3020	* 32200	71.2	41	55	27	* 10.9	10.4					
Latham	6285VT2PRO	CB,RR	* 11.6	* 2980	* 34900	71.4	42	55	26	* 10.9	* 12.4	11.9	3110	37000	13.1	10.8
Dairyland	DS-5329AM	CB,LL,RR	* 10.6	* 3230	* 34500	71.7	39	58	30	* 10.6	10.6	11.0	* 3320	36600	10.7	11.2
NK Brand	NK1205-3120-EZ1	CB,LL,RR	* 12.3	* 3150	* 38700	71.9	41	56	29	* 12.0	* 12.5					
110-DAY HYBRID TRIAL AVERAGE##						71.9										
Legend Seeds	LR9913 VIP3120	CB,LL,RR	9.4	* 2980	27900	72.2	44	55	25	* 9.1	9.7					
AgriGold	A641-06STXRIB	CB,LL,RR,RW	* 10.2	* 3130	* 31900	72.2	40	58	28	* 9.3	11.1	10.7	3200	34300	11.5	10.0
Golden Harvest	G12W66-3122 EZ	CB,LL,RR,RW	* 10.0	* 3110	* 31200	72.4	41	55	28	* 10.1	9.9					
InVision	FS 6194V RIB	CB,RR	* 11.3	* 3080	* 35000	72.5	41	55	28	* 10.8	* 11.9					
115-DAY HYBRID TRIAL AVERAGE##						72.5										
AgriGold	A641-54VT2PRO	CB,RR	* 10.8	* 3020	* 32500	72.5	44	53	26	* 10.7	10.8					
InVision	FS 64SX1 RIB	CB,LL,RR,RW	* 11.1	* 3100	* 34500	72.6	41	56	27	* 11.4	10.8	10.9	* 3370	36800	12.1	9.8
Jung	7S744RIB	CB,LL,RR,RW	* 9.8	* 3010	* 29500	72.6	42	53	27	* 8.2	* 11.5	10.8	3290	35600	12.1	9.5
Viking	53-12GS	None	* 9.9	* 3120	* 31000	72.8	42	53	29	* 10.4	9.5	11.7	* 3360	39600	12.4	11.1
Dekalb	DKC63-90RIB	CB,LL,RR,RW	8.9	* 3130	28100	72.9	39	55	29	* 8.7	9.1					
InVision	FS 6595V RIB	CB,DT,RR	* 10.2	2790	28300	72.9	45	56	21	* 9.6	10.8					
Prairie Hybrids	7355	None	* 9.7	* 3190	* 31200	73.0	41	57	28	* 6.6	* 12.8	11.8	* 3370	39700	12.6	10.9
Power Plus	7W63AM	CB,LL,RR	* 10.4	* 3020	* 31500	73.1	41	54	27	* 11.0	9.8					
Dekalb	DKC64-34RIB	CB,LL,RR,RW	* 10.6	2910	* 30800	73.2	44	53	24	* 9.5	* 11.7					
Prairie Hybrids	8759	None	8.4	* 2990	25600	73.2	44	57	24	* 10.9	6.0	12.4	* 3360	41700	12.8	* 12.1
Masters Choice	MCT6552-3110	CB,LL,RR	* 12.0	* 3070	* 36800	73.3	40	55	28	* 10.4	* 13.5	10.8	3180	34400	11.3	10.2
InVision	FS 6299L2 EZR	CB,LL,RR	* 10.6	* 3050	* 32400	73.9	44	55	25	* 10.0	11.2					
Mycogen	F2F712	RR-bmr	7.2	2860	20700	74.1	50	61	18	* 8.6	5.7					
InVision	FS 63ZX1 RIB	CB,LL,RR,RW	8.9	2860	25700	75.7	45	51	24	* 9.1	8.7	12.1	3270	39600	* 13.4	10.8
MEAN			10.5	3050	32200	72.2	42	55	27	10.1	10.9	11.5	3270	37600	12.2	10.8
LSD(0.10)**			2.6	280	9300	2.2	4	3	5		2.3	1.1	180	4500	1.7	1.1

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average whole plant moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Figure 2. Relationship between Milk per Acre and Milk per Ton of corn hybrids in Southern Wisconsin during 2019.

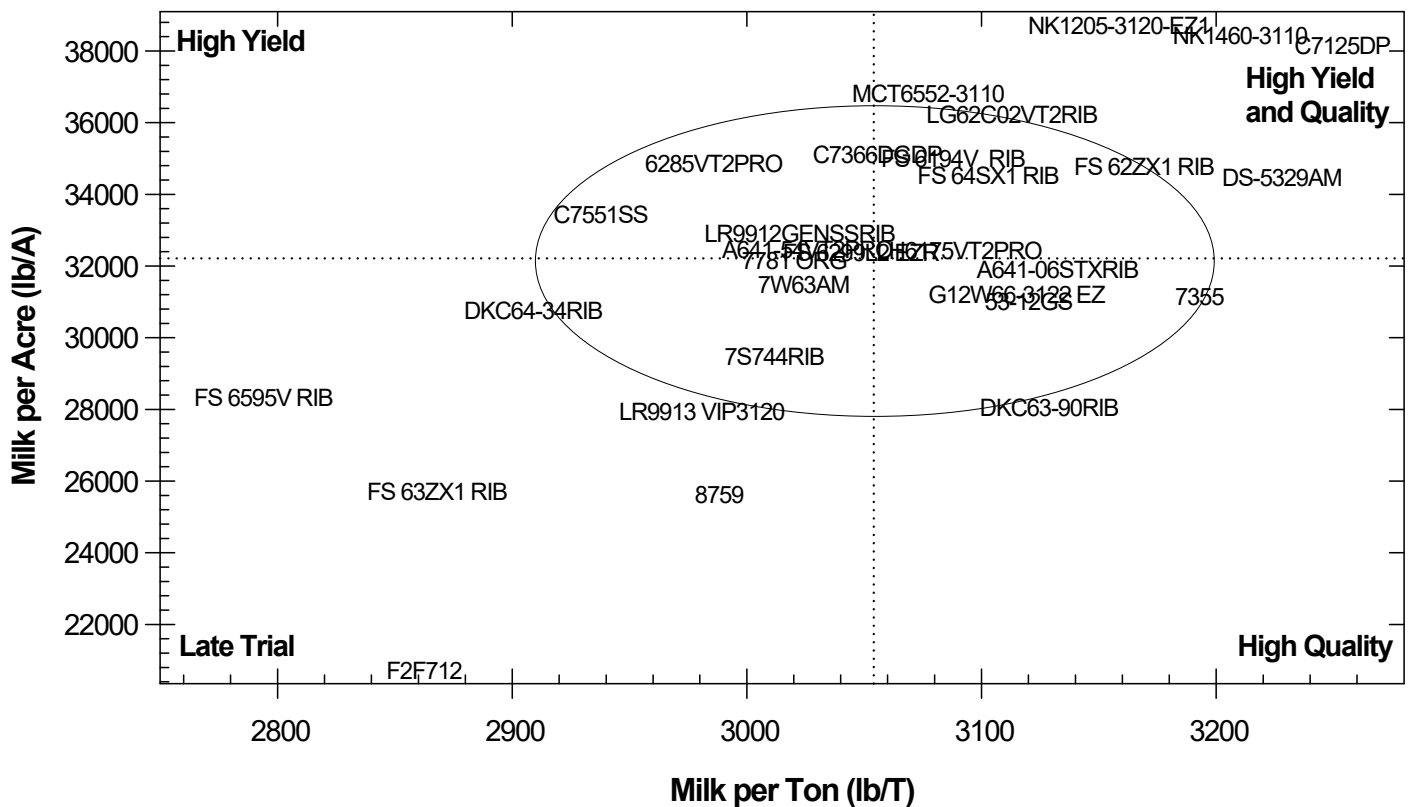
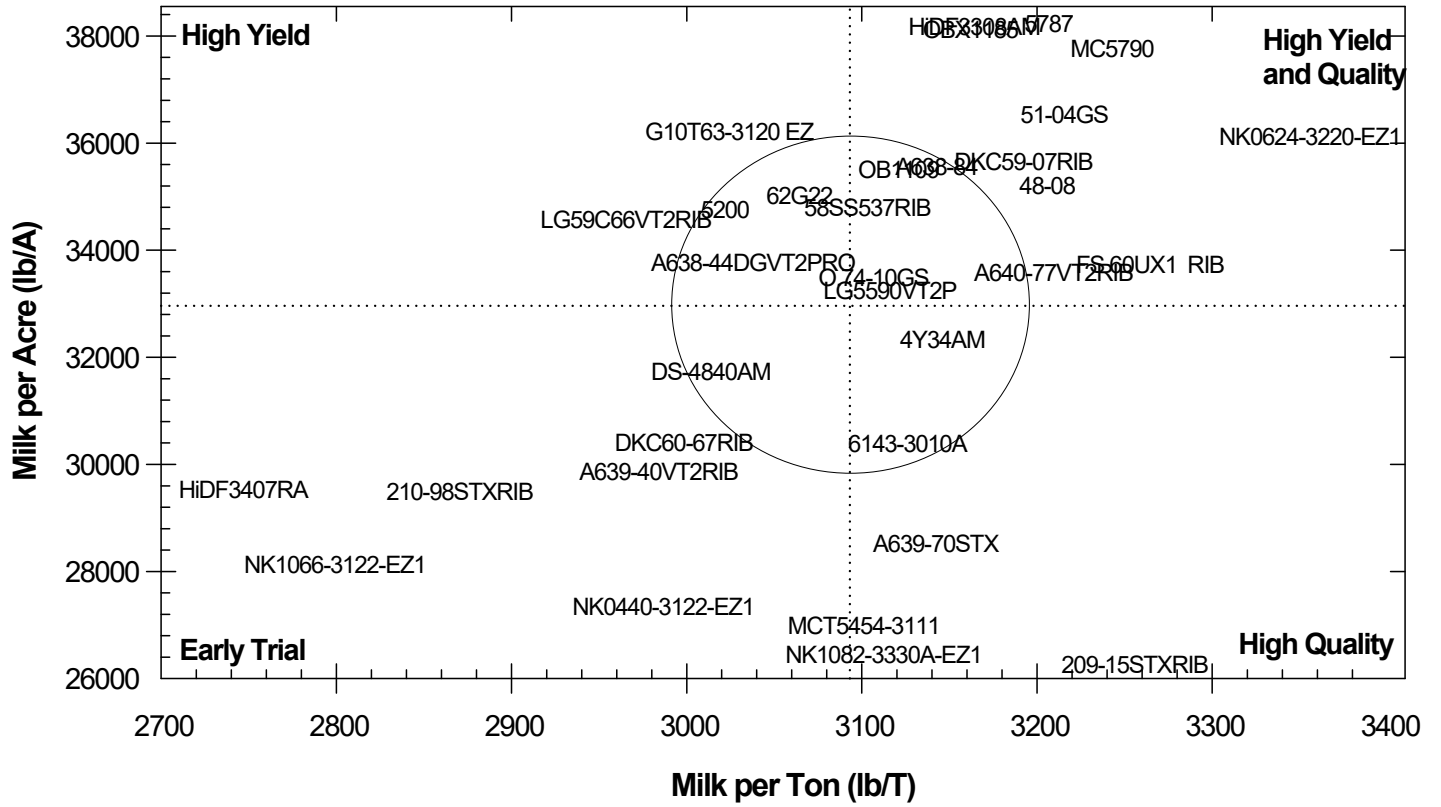


Table 16. South Central Zone - Early Maturity Silage Trial. (page 1 of 2)

106 day Relative Maturity or earlier based on company rating (Arlington= ARL, Fond du Lac= FON, Galesville= GAL)

Brand	Hybrid	Traits†	2019								2018					
			Average			Moist	NDF	NDFD	Starch	Yield (T/A)		Average			Yield (T/A)	
			Yield (T/A)	Milk per Ton	Acre					FON	ARL	Yield (T/A)	Milk per Ton	Acre	FON	GAL
NK Brand	NK9930-3010	CB,LL,RR	* 11.1	* 3170	* 35100	58.7	39	56	32	* 11.4	10.7					
LG Seeds	LG54C04	None	* 11.6	* 3160	* 36900	58.9	37	57	34	10.7	* 12.6					
Channel	204-74VT2PRIB	CB,RR	* 11.4	* 3140	* 35800	60.1	38	56	33	* 10.9	* 11.8					
AgriGold	A634-93	None	* 11.9	* 3290	* 39300	60.4	36	57	35	* 11.0	* 12.8					
Cornelius	6438DP	CB,RR	* 10.8	* 3200	* 34500	61.2	37	58	34	10.4	11.1					
Viking	O.45-97GS	None	9.5	* 3170	30300	61.4	38	55	33	9.4	9.7					
Legend Seeds	LR9004GT	RR	9.2	* 3070	27900	62.0	40	56	31	10.4	8.0					
LG Seeds	LG5525VT2RIB	CB,RR	* 11.1	* 3080	* 34000	62.1	40	56	31	10.8	* 11.3	* 11.0	* 3220	35400	* 10.5	11.5
AgriGold	A635-54VT2RIB	CB,RR	* 11.7	* 3140	* 36800	62.4	39	56	32	10.8	* 12.6	* 11.0	* 3220	35400	10.2	* 11.7
InVision	FS 55RL1 EZR	CB,LL,RR	* 10.4	* 3250	* 33900	62.8	39	61	31	9.6	11.2					
Latham	5245VT2PRO	CB,RR	* 10.3	* 3160	32800	63.6	38	54	34	9.5	11.2					
Dairyland	DS-4318AM	CB,LL,RR	* 11.3	* 3070	* 34900	63.6	39	55	30	10.6	* 12.0	* 11.5	* 3330	* 38100	* 11.7	11.2
Legacy Seeds	L5217VT2P(RIB)	CB,RR	* 10.3	* 3150	32500	63.7	38	57	33	* 11.0	9.7					
Tracy Seeds	T104-13 (3000GT)	CB,LL,RR,RW	9.2	* 3160	29200	64.0	38	56	32	10.4	8.1					
InVision	FS 53ZX1 RIB	CB,LL,RR,RW	* 11.0	* 3100	* 34100	64.0	39	55	32	* 11.0	11.0	10.3	* 3370	34700	9.1	11.5
Tracy Seeds	T104-26 (3122EZ)	CB,LL,RR,RW	10.1	* 3070	30900	64.2	40	57	30	10.0	10.2					
Dekalb	DKC53-27RIB	CB,LL,RR,RW	* 10.5	* 3140	33000	64.2	39	55	31	10.3	10.7					
LG Seeds	LG51C48VT2PRO	CB,RR	* 11.0	* 3120	* 34400	64.2	39	57	31	10.3	* 11.7					
105-DAY HYBRID TRIAL AVERAGE##						64.5										
Legacy Seeds	L6047SSX	CB,LL,RR,RW	9.3	* 3190	29600	64.6	38	55	32	10.4	8.2					
InVision	FS 5594X RIB	CB,LL,RR,RW	* 10.7	* 3150	* 33900	64.9	38	55	32	10.4	11.1					
Legacy Seeds	L5519DGV2P	CB,DT,RR	* 10.9	* 3110	* 33500	65.0	40	55	30	* 11.3	10.5					
100-DAY HYBRID TRIAL AVERAGE##						65.2										
AgriGold	A632-07STX	CB,LL,RR,RW	8.1	2760	23000	65.2	42	56	25	* 11.0	5.1					
Dekalb	DKC52-35RIB	CB,RR	* 11.2	* 3160	* 35600	65.2	38	56	32	10.7	* 11.7					
InVision	FS 51QX1 RIB	CB,LL,RR,RW	10.0	3020	30200	65.3	40	54	29	10.1	9.9	10.1	* 3220	32500	10.1	10.1
NK Brand	NK0624-3220-EZ1	CB,LL,RR	9.2	* 3180	29200	65.3	40	60	29	10.0	8.4	10.3	* 3290	33800	9.6	11.0
Viking	51-04GS	None	* 10.6	* 3160	* 33500	65.4	40	57	30	10.6	10.6	10.8	* 3250	35200	10.0	* 11.7
Viking	O.69-01	None	* 11.4	3020	* 34500	65.9	42	55	28	* 10.9	* 11.9					
AgriGold	A629-12VT2PRO	CB,RR	* 11.3	* 3160	* 35700	66.0	39	57	31	* 11.1	* 11.4					

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Table 16 (continued). South Central Zone - Early Maturity Silage Trial. (page 2 of 2)

106 day Relative Maturity or earlier based on company rating (Arlington= ARL, Fond du Lac= FON, Galesville= GAL)

Brand	Hybrid	Traits†	2019										2018				
			Average			Average				Yield (T/A)			Average			Yield (T/A)	
			Yield (T/A)	Milk per Ton	per Acre	Moist %	NDF %	NDFD %	Starch %	FON	ARL	Yield (T/A)	Yield (T/A)	Milk per Ton	per Acre	FON	GAL
Golden Harvest	G04S19-3122 EZ	CB,LL,RR,RW	9.4	* 3140	29100	66.1	41	56	29	10.7	8.0						
Masters Choice	MCT5454-3111	CB,LL,RR,RW	10.1	3030	30600	66.4	41	54	29	10.4	9.8	10.4	3200	33200	10.2	10.6	
LG Seeds	LG5505STXRIB	CB,LL,RR,RW	* 11.3	3050	* 34300	66.4	38	56	29	10.8	* 11.8	10.3	* 3260	33500	10.4	10.2	
Legacy Seeds	L5438-3010	CB,LL,RR	10.0	* 3150	31100	66.5	40	56	30	* 11.1	8.8						
Jung	56SS538	CB,LL,RR,RW	* 10.8	* 3100	* 33600	66.5	40	55	30	10.2	* 11.5	10.8	* 3350	* 36300	* 11.1	10.5	
Prairie Hybrids	4718	None	* 12.3	* 3300	* 40500	66.7	37	58	33	* 11.6	* 13.0	10.7	* 3230	34600	9.8	11.6	
Dairyland	DS-7004RA	CB,LL,RR	* 10.6	* 3220	* 34100	67.4	40	58	30	10.2	11.0						
NK Brand	NK0440-3122-EZ1	CB,LL,RR,RW	* 10.5	* 3080	32500	67.4	41	57	28	* 11.1	9.9						
Dairyland	HiDF3802AMXT	CB,LL,RR,RW	* 10.9	2950	32200	67.9	42	56	26	10.6	11.2						
Dekalb	DKC55-37RIB	CB,LL,RR,RW	9.5	* 3110	29800	68.0	40	54	30	8.4	10.7						
O'Brien Hybrids	OB1106	None	* 10.5	2980	31500	68.2	43	54	27	* 11.5	9.5						
AgriGold	A629-22STXRIB	CB,LL,RR,RW	* 10.9	2930	32000	68.6	42	55	26	10.3	* 11.5	9.7	* 3210	31100	10.2	9.2	
AgriGold	A636-11STX	CB,LL,RR,RW	* 10.7	2980	31900	68.7	41	55	27	10.8	10.6						
MEAN			10.5	3110	32900	64.6	39	56	31	10.6	10.5	10.5	3210	33800	10.2	10.9	
LSD(0.10)**			2.0	240	7100	4.1	3	2	4	0.8	1.8	1.0	160	3600	1.3	1.1	

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average whole plant moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 17. South Central Zone - Late Maturity Silage Trial. (page 1 of 2)

107 day Relative Maturity or later based on company rating (Arlington= ARL, Fond du Lac= FON, Galesville= GAL)

Brand	Hybrid	Traits†	2019									2018					
			Average			Average				Yield (T/A)		Average			Yield (T/A)		
			Yield (T/A)	Milk per Ton	Acre	Moist %	NDF %	NDFD %	Starch %	FON	ARL	Yield (T/A)	Milk per Ton	Acre	FON	GAL	
Jung	57SS530	CB,LL,RR,RW	* 10.5	* 3080	* 32600	63.4	39	57	30	9.9	* 11.1						
AgriGold	A638-74VT2RIB	CB,RR	* 10.9	2800	* 30700	65.1	43	54	24	* 11.0	* 10.8	* 11.5	3160	* 36900	9.2	* 13.9	
Cornelius	C577SS	CB,LL,RR,RW	* 10.5	* 3230	* 33900	65.4	39	57	32	10.2	* 10.8						
AgriGold	A639-40VT2RIB	CB,RR	* 11.5	* 3000	* 34500	65.5	42	56	28	* 10.9	* 12.1	* 10.9	* 3290	* 35800	* 10.9	10.9	
Renk	9S-113	None	* 11.0	2970	* 32600	65.7	42	56	27	* 11.3	* 10.6						
NK Brand	NK1082-3330A-EZ1	CB,LL,RR-wo	9.8	* 3160	* 31000	65.7	39	57	31	* 10.6	9.0						
AgriGold	A637-55VT2RIB	CB,RR	* 10.6	* 3070	* 32600	65.9	42	56	29	9.8	* 11.4	* 10.9	* 3380	* 36900	10.3	11.5	
Cornelius	C575DP	CB,RR	* 11.0	* 3140	* 34600	66.2	40	56	30	10.2	* 11.8						
Legend Seeds	LR9809VT2PRIB	CB,RR	* 11.1	* 3190	* 35500	66.3	39	56	31	* 10.9	* 11.3	* 10.9	* 3320	* 36200	* 10.6	11.2	
Latham	5742RR	RR	* 10.9	* 3190	* 34800	66.3	39	57	31	10.1	* 11.6	* 10.7	* 3300	* 35400	9.5	11.8	
LG Seeds	LG58C77VT2RIB	CB,RR	* 11.1	* 3070	* 34400	66.4	42	55	28	9.6	* 12.6	10.5	* 3260	34300	* 10.5	10.5	
Prairie Hybrids	5787	None	* 10.8	* 3220	* 35100	66.5	39	57	31	10.3	* 11.3						
Cornelius	6869	None	* 11.1	* 3150	* 34900	66.7	40	56	30	* 10.5	* 11.6						
LG Seeds	LG59C66VT2RIB	CB,RR	* 11.3	* 2990	* 33900	66.7	43	55	27	* 11.0	* 11.7	* 11.5	3180	* 36700	* 10.8	12.3	
InVision	FS 57ZX1 RIB	CB,LL,RR,RW	10.0	* 3020	* 30400	66.7	40	56	28	10.4	9.6	9.3	3130	29200	9.8	8.8	
Channel	207-27STXRIB	CB,LL,RR,RW	10.0	* 3220	* 32300	66.9	38	57	31	10.0	10.0						
Prairie Hybrids	5200	None	* 10.4	2970	* 30900	66.9	41	55	27	* 10.5	* 10.3	* 11.7	* 3320	* 39100	10.2	* 13.2	
Prairie Hybrids	EX0094	None	10.0	* 3110	* 31000	67.0	43	57	28	9.6	* 10.3						
Golden Harvest	G12W66-3122 EZ	CB,LL,RR,RW	* 10.8	* 3190	* 34700	67.1	39	57	31	* 10.7	* 11.0						
Jung	58SS537RIB	CB,LL,RR,RW	* 10.5	* 3130	* 32900	67.1	39	56	30	* 11.2	9.8	10.6	3220	34100	9.7	11.5	
Jung	HDS76S76RIB	CB,LL,RR,RW	* 10.6	2900	* 30800	67.1	44	53	25	10.2	* 11.1						
Legend Seeds	LR9913 VIP3120	CB,LL,RR	* 10.6	2940	* 31100	67.1	43	55	26	* 10.9	* 10.3						
105-DAY HYBRID TRIAL AVERAGE##						67.2											
Brunner	EXP109	CB,LL,RR	* 10.5	2980	* 31300	67.2	44	54	26	* 10.5	* 10.5						
Renk	RK937VT2P	CB,RR	* 11.6	2840	* 33100	67.4	44	55	24	* 10.9	* 12.4						
InVision	FS 59VL1 EZR	CB,LL,RR	9.4	* 3120	29100	67.4	41	58	29	9.8	8.9						
Dairyland	DS-4840AM	CB,LL,RR	* 11.0	* 3040	* 33600	67.6	41	56	28	* 10.5	* 11.5						
AgriGold	A638-84	None	9.4	2910	27400	67.6	44	54	25	10.4	8.5						
InVision	FS 60UX1 RIB	CB,LL,RR,RW	9.4	* 3070	29100	67.7	40	56	29	* 10.5	8.2	10.3	* 3260	33500	9.6	10.9	
NK Brand	NK1284-3122-EZ1	CB,LL,RR,RW	9.5	* 3090	29400	67.9	40	56	29	9.3	9.7						

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Table 17 (continued). South Central Zone - Late Maturity Silage Trial. (page 2 of 2)

107 day Relative Maturity or later based on company rating (Arlington= ARL, Fond du Lac= FON, Galesville= GAL)

Brand	Hybrid	Traits†	2019									2018				
			Average			Yield (T/A)	FON	ARL	Average			Yield (T/A)	FON	GAL		
			Yield (T/A)	Milk per Ton	Acre				Moist %	NDF %	NDFD %				Starch %	Yield (T/A)
115-DAY HYBRID TRIAL AVERAGE##			68.0													
110-DAY HYBRID TRIAL AVERAGE##			68.3													
InVision	FS 58RL1 EZR	CB,LL,RR	* 10.6	2930	* 31400	68.7	43	53	25	9.5	* 11.7					
Renk	RK965VT2P	CB,RR	* 11.9	* 3120	* 37100	68.8	40	56	29	* 11.3	* 12.5					
Blue River Organic	57A30	None	* 10.3	* 3000	* 31100	68.8	42	55	27	* 10.5	10.1	* 11.2	* 3340	* 37400	* 11.0	11.4
Dairyland	DS-5018AM	CB,LL,RR	* 10.2	2950	* 30200	69.1	42	57	25	* 10.9	9.4					
Masters Choice	MC5790	None	* 11.1	* 3180	* 35400	69.1	41	57	29	9.7	* 12.5	10.1	3250	33000	9.3	10.9
Renk	RK842SSTX	CB,LL,RR,RW	* 10.4	2920	* 30500	69.3	43	55	25	* 10.6	* 10.3	10.5	3190	33500	10.0	11.0
Renk	RK807SSTX	CB,LL,RR,RW	9.3	2910	27000	69.8	42	57	25	* 10.8	7.8					
Golden Harvest	G10T63-3120 EZ	CB,LL,RR	* 10.5	* 3000	* 31400	69.9	42	55	27	* 10.6	* 10.3	* 10.9	3130	34200	10.4	11.4
Blue River Organic	62G22	None	* 10.5	* 3110	* 32600	70.0	43	55	28	10.3	* 10.7	* 11.2	3080	34500	10.4	12.1
Dairyland	DS-4816AM	CB,LL,RR	9.4	* 3100	29300	70.1	40	58	27	* 10.6	8.2	10.1	* 3340	33700	9.8	10.3
Dairyland	HiDF3407RA	CB,LL,RR,RW	* 10.6	2870	* 31000	70.1	44	53	25	9.5	* 11.7	* 10.8	3020	32700	10.1	11.5
NK Brand	NK1205-3120-EZ1	CB,LL,RR	* 10.6	2980	* 31600	70.2	42	57	26	* 10.6	* 10.6					
Dairyland	HiDF3211RA	CB,LL,RR,RW	9.9	2820	27900	70.8	45	54	23	9.8	10.1	10.2	3190	32700	10.4	10.1
Prairie Hybrids	7355	None	* 10.3	* 3180	* 32900	70.9	42	56	29	9.7	* 10.9	10.4	3160	32800	10.4	10.3
Renk	RK945DGVT2P	CB,DT,RR	* 11.4	2980	* 34200	71.2	41	55	27	* 10.5	* 12.3					
Dairyland	HiDF3308AM	CB,LL,RR	* 10.7	2920	* 31600	71.2	44	58	24	9.6	* 11.8					
Mycogen	F2F712	RR-bmr	7.3	* 3000	21900	71.3	46	64	22	9.1	5.6					
Golden Harvest	G09Y24-3220A EZ	CB,LL,RR-wo	* 10.2	* 3000	* 30800	71.7	42	58	26	10.0	* 10.5	10.2	* 3270	33300	10.0	10.4
Latham	6143-3010A	CB,LL,RR-wo	9.5	2940	27900	71.8	42	57	25	10.4	8.6					
Dairyland	HiDF3808RA	CB,LL,RR,RW	9.3	2550	23800	72.3	50	50	19	10.1	8.5	* 10.7	3030	32500	* 10.8	10.7
MEAN			10.4	3030	31600	68.1	42	56	27	10.3	10.5	10.6	3220	34300	10.1	11.1
LSD(0.10)**			1.7	240	6900	3.6	3	2	4	0.8	2.4	1.2	150	4700	0.8	1.3

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, Ify=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average whole plant moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Figure 3. Relationship between Milk per Acre and Milk per Ton of corn hybrids in South Central Wisconsin during 2019.

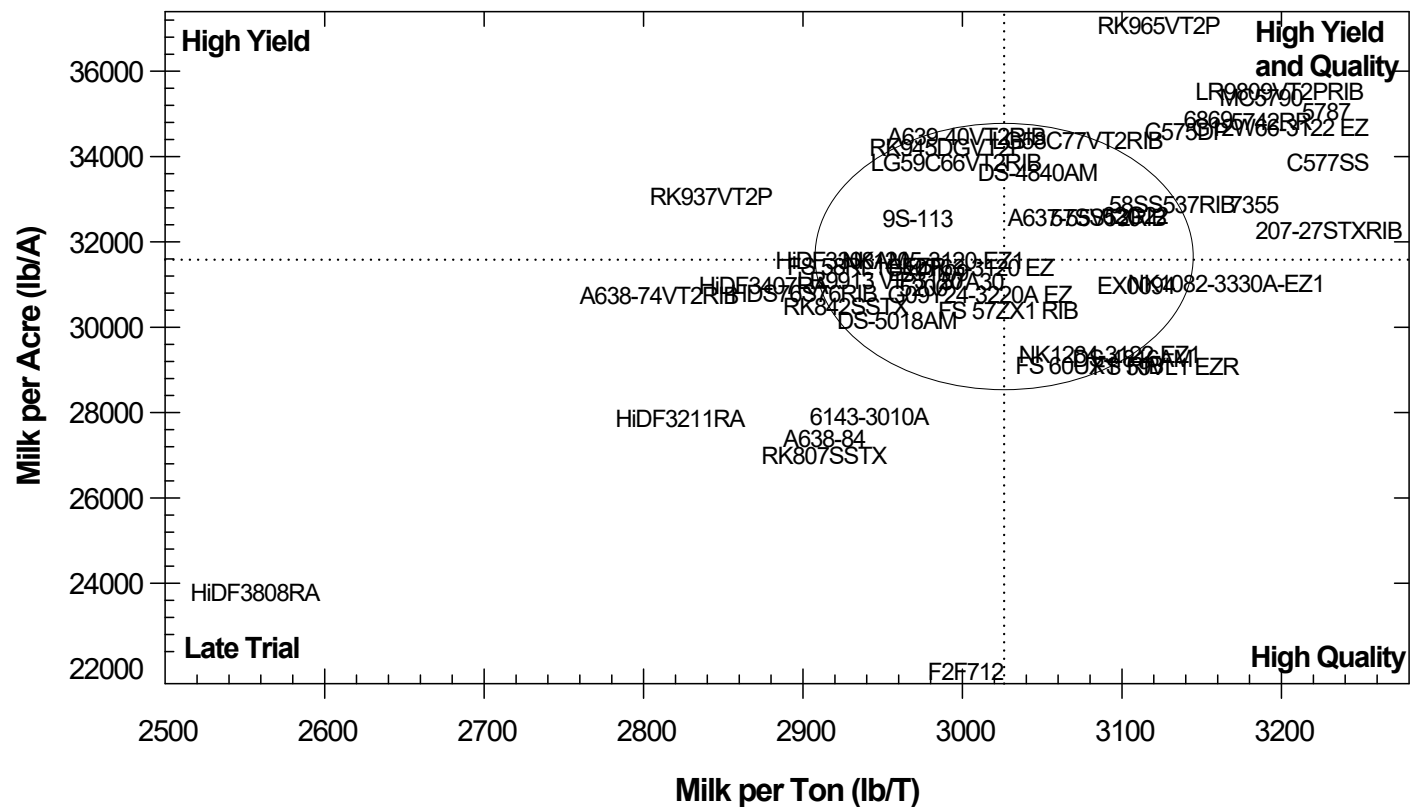
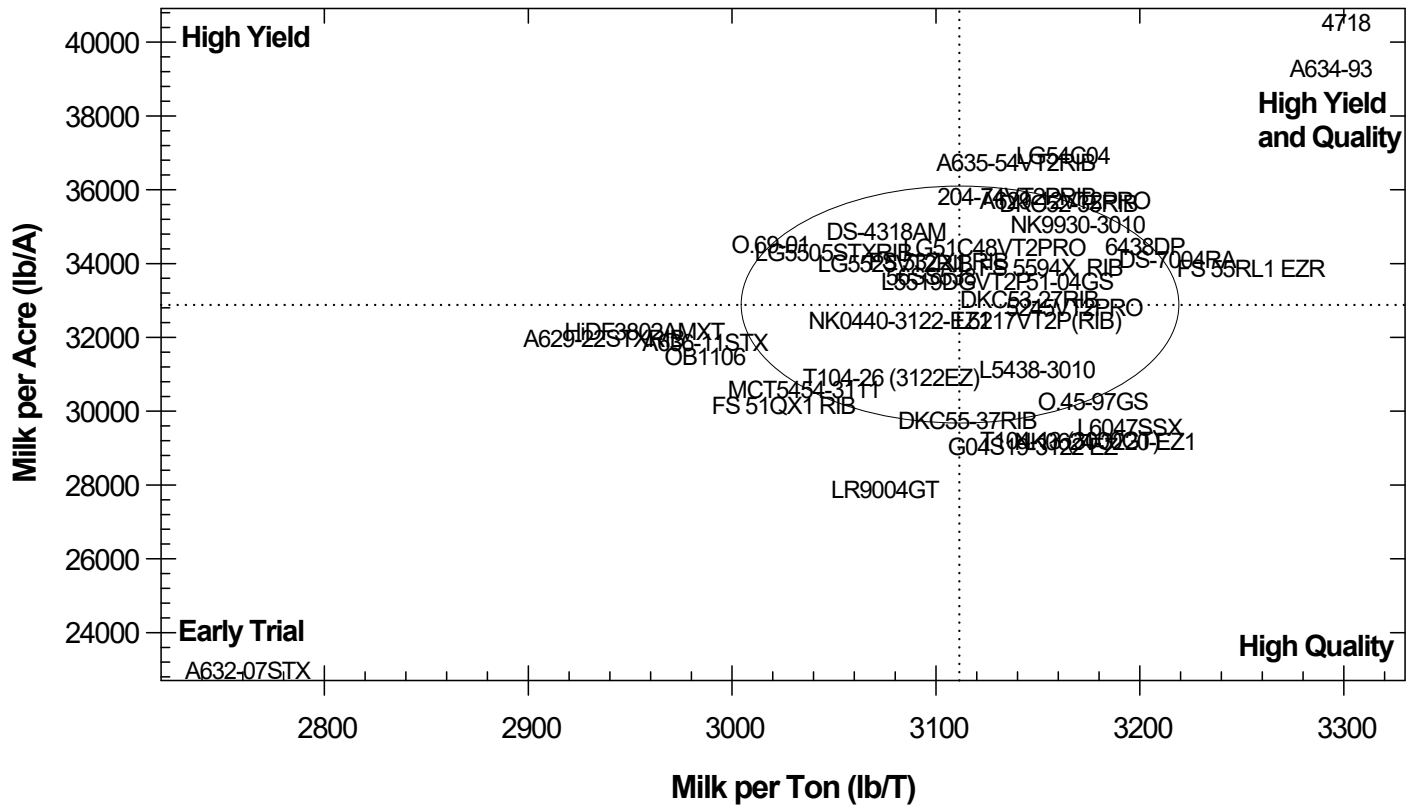


Table 18. North Central Zone - Early Maturity Silage Trial. (page 1 of 2)

99 day Relative Maturity or earlier based on company rating (Chippewa Falls= CHP, Marshfield= MAR, Valders= VAL)

Brand	Hybrid	Traits†	2019										2018					
			Average				Yield (T/A)						Average			Yield (T/A)		
			Yield (T/A)	Milk per Ton	Milk per Acre	Moist %	NDF %	NDFD %	Starch %	CHP	VAL	Yield (T/A)	Milk per Ton	Milk per Acre	CHP	MAR	VAL	
Masters Choice	MCT3393-3000GT	CB,LL,RR,RW	7.3	* 3320	24400	55.1	36	61	36	7.9	6.7							
Masters Choice	MCT3891GT	RR	7.4	3210	23700	59.8	39	59	32	7.4	7.3	8.6	3120	26900	8.2	8.6	9.1	
NK Brand	NK9930-3010	CB,LL,RR	8.0	3170	25400	60.3	39	61	30	7.9	8.2							
Prairie Hybrids	418	None	8.0	* 3300	26300	62.2	36	62	34	* 8.9	7.2	9.2	3130	29000	* 10.2	8.4	9.1	
NK Brand	NK9610-3010	CB,LL,RR	8.1	* 3310	26800	62.4	36	60	34	7.9	8.3							
Viking	42-92	None	8.0	* 3220	25800	62.9	37	60	32	8.2	7.8	* 9.7	* 3200	* 31200	* 10.3	8.9	10.0	
Legend Seeds	LR9995 VIP3220	CB,LL,RR	8.8	* 3390	* 29900	64.1	34	60	35	8.7	8.9							
InVision	FS 47TV1 RIB	CB,RR	8.7	* 3350	* 29400	64.6	36	62	34	8.6	8.9	9.2	3150	29100	9.4	9.0	9.3	
Dairyland	DS-3519AM	CB,LL,RR	8.5	3170	27100	64.7	38	58	30	* 8.9	8.1	* 9.9	* 3180	* 31500	* 10.7	8.2	* 10.8	
LG Seeds	LG5465VT2RIB	CB,RR	8.3	3190	26500	65.1	38	60	30	8.5	8.1	* 10.2	* 3270	* 33600	* 11.1	8.9	* 10.7	
Masters Choice	MCT4572-3010	CB,LL,RR	8.4	* 3290	27500	65.4	36	61	33	8.6	8.1							
Viking	O.82-95GS	None	7.4	* 3360	25000	65.4	37	63	31	8.6	6.2	8.4	* 3250	27400	7.9	8.0	9.4	
Legend Seeds	LR9897VT2PRIB	CB,RR	7.8	* 3320	26100	65.6	37	61	33	8.7	7.0							
Dairyland	HiDF3197RA	CB,LL,RR,RW	8.9	* 3220	28700	65.7	39	61	30	* 9.2	8.6	* 10.2	* 3230	* 32700	* 11.6	9.0	9.8	
Jung	49SS437RIB	CB,LL,RR,RW	* 9.9	* 3280	* 32500	65.8	36	60	33	* 9.7	* 10.1	* 10.4	2950	* 30600	* 10.5	* 9.9	* 10.7	
Dekalb	DKC47-54RIB	CB,LL,RR,RW	8.4	* 3260	27300	65.9	38	61	31	8.2	8.6							
Dairyland	DS-3715AM	CB,LL,RR	8.6	* 3290	28100	66.0	38	61	31	* 8.9	8.3	* 10.3	3140	* 32200	* 11.1	8.8	* 10.9	
Legacy Seeds	L3537-3220	CB,LL,RR	8.3	* 3300	27400	66.2	37	60	32	8.7	7.8							
95-DAY HYBRID TRIAL AVERAGE##						66.3												
LG Seeds	LG5494VT2RIB	CB,RR	8.7	* 3250	28500	66.3	37	59	32	* 8.8	8.7	* 9.8	* 3180	* 31400	* 10.3	8.6	* 10.7	
Project Seeds	PS1898GT	RR	* 9.1	3170	28800	66.3	39	60	29	* 9.5	8.7							
Tracy Seeds	T095-29	CB,LL,RR	7.5	* 3250	24600	66.4	37	61	32	8.0	7.0	* 9.7	3140	* 30600	* 10.5	8.8	10.0	
Golden Harvest	G95D32-3220 EZ	CB,LL,RR	9.0	* 3400	* 30600	66.4	35	60	34	* 9.8	8.2							
Channel	199-11STXRIB	CB,LL,RR,RW	* 9.4	3180	* 30200	66.4	37	61	30	* 9.8	* 9.0							
Viking	O.45-97GS	None	8.3	* 3290	27500	66.7	37	61	31	* 9.2	7.4							
100-DAY HYBRID TRIAL AVERAGE##						66.8												
Dekalb	DKC49-44RIB	CB,LL,RR,RW	9.0	3210	* 28900	66.8	38	61	30	* 9.1	* 9.0							
Federal Hybrids	4680VT2PRIB	CB,RR	8.0	* 3260	26300	67.1	36	61	31	8.5	7.6	9.2	3150	29000	8.9	8.9	9.7	
Latham	4517VT2PRO	CB,RR	7.6	* 3240	24700	67.2	37	62	30	8.1	7.1							
Channel	198-98STXRIB	CB,LL,RR,RW	8.8	3150	27800	67.4	38	62	29	* 8.8	8.8							

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Table 18 (continued). North Central Zone - Early Maturity Silage Trial. (page 2 of 2)

99 day Relative Maturity or earlier based on company rating (Chippewa Falls= CHP, Marshfield= MAR, Valders= VAL)

Brand	Hybrid	Traits†	2019									2018						
			Average			Moist	NDF	NDFD	Starch	Yield (T/A)		Average			Yield (T/A)			
			Yield (T/A)	Milk per Ton	Milk per Acre					CHP	VAL	Yield (T/A)	Milk per Ton	Milk per Acre	CHP	MAR	VAL	
Jung	48SS420	CB,LL,RR,RW	7.9	3160	25000	67.7	39	61	28	8.5	7.4							
Latham	4692RR	RR	7.7	3130	24300	68.0	39	63	28	8.5	6.9							
Dairyland	HiDF3099RA	CB,LL,RR,RW	9.0	* 3360	* 30200	68.3	37	62	32	* 9.2	8.7	* 10.0	3130	* 31500	* 10.5	8.8	* 10.7	
Legacy Seeds	L3718DGVT2P	CB,DT,RR	* 9.1	* 3320	* 30200	68.5	36	63	32	* 8.8	* 9.3							
NK Brand	NK9738-3220-EZ1	CB,LL,RR	8.7	* 3290	28800	68.7	38	60	31	* 8.9	8.6							
Dairyland	HiDF-3397RA	CB,LL,RR,RW	* 9.2	2950	27300	69.7	43	61	24	* 9.8	8.7							
Federal Hybrids	4999VT2PRIB	CB,RR	8.6	3070	26600	69.8	39	63	28	* 9.2	8.0							
Mycogen	BMR97B37RA	CB,LL,RR,RW-bmr	7.0	3120	22000	73.7	40	67	25	7.7	6.4							
MEAN			8.4	3240	27200	65.8	38	61	31	8.7	8.0	9.5	3160	30200	9.9	8.7	10.0	
LSD(0.10)**			0.8	180	3600	3.6	2	2	4	1.0	1.1	0.8	140	3100	1.5	0.9	1.0	

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average whole plant moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 19. North Central Zone - Late Maturity Silage Trial. (page 1 of 2)

100 day Relative Maturity or later based on company rating (Chippewa Falls= CHP, Marshfield= MAR, Valders= VAL)

Brand	Hybrid	Traits†	2019										2018						
			Average				Moist	NDF	NDFD	Starch	Yield (T/A)			Average					
			Yield (T/A)	Milk per Ton	Milk per Acre	CHP					MAR	VAL	Yield (T/A)	Milk per Ton	Milk per Acre	CHP	MAR	VAL	
NK Brand	NK0472-3110	CB,LL,RR	* 7.8	* 3090	* 24400	65.8	40	58	28	9.5	5.8	7.9							
Renk	9S-104-3010	CB,LL,RR	* 7.9	* 3190	* 25400	65.9	38	62	30	8.4	* 8.2	7.2							
Legend Seeds	LR94A01-3011A	CB,LL,RR,RW-wo	7.0	* 3070	21900	67.1	39	60	29	9.3	5.4	6.3	9.7	* 3130	30400	* 10.3	* 8.9	9.9	
Renk	RK621VT2P	CB,RR	7.6	3020	* 23400	67.2	40	60	28	9.4	* 6.0	7.5							
Tracy Seeds	T102-14(3011A)	CB,LL,RR,RW-wo	5.8	* 3130	18500	67.8	37	60	30	8.1	3.6	5.8	9.1	3090	28200	9.9	8.2	9.3	
LG Seeds	LG54C04	None	* 7.8	* 3120	* 24200	68.4	39	61	29	9.0	* 7.6	6.9							
Viking	O.69-01	None	* 8.5	* 3090	* 26300	68.6	41	59	27	* 9.8	* 8.1	7.5							
Blue River Organic	48G35	None	* 8.7	* 3070	* 26700	68.6	41	59	27	* 10.1	* 7.9	* 8.0							
Renk	RK765VT2P	CB,RR	7.6	3030	* 23300	68.8	40	61	27	9.0	* 7.2	6.6							
Legacy Seeds	L6047SSX	CB,LL,RR,RW	* 7.8	* 3060	* 24000	69.0	39	61	28	9.5	* 6.5	7.3							
LG Seeds	LG5525VT2RIB	CB,RR	* 8.0	* 3050	* 24700	69.0	39	63	27	8.6	* 8.2	7.3							
Foundation Direct	8500	None	7.6	* 3200	* 24200	69.5	38	62	29	9.1	* 6.1	7.4	9.5	* 3160	30300	9.8	* 8.6	10.2	
InVision	FS 53ZX1 RIB	CB,LL,RR,RW	6.9	3020	21100	69.7	39	61	27	8.3	5.8	6.4	9.1	* 3270	29600	9.3	* 8.6	9.3	
100-DAY HYBRID TRIAL AVERAGE##						69.8													
Viking	51-04GS	None	7.7	* 3090	* 24200	69.8	40	62	28	9.0	* 6.8	7.4							
O'Brien Hybrids	OB1105	None	* 7.9	* 3090	* 24800	69.9	40	62	27	9.4	* 7.6	6.8							
Renk	RK717SSTX	CB,LL,RR,RW	7.4	3030	22600	69.9	40	58	27	8.9	* 6.6	6.7	9.5	* 3140	29700	9.3	* 8.8	10.3	
Renk	9S-109-3220	CB,LL,RR	7.4	2970	22300	69.9	40	61	25	* 10.1	5.7	6.3							
Latham	5245VT2PRO	CB,RR	7.5	* 3040	22800	69.9	40	59	28	8.5	* 6.7	7.1							
NK Brand	NK0440-3122-EZ1	CB,LL,RR,RW	7.4	* 3120	23000	69.9	41	62	27	8.1	* 6.3	7.7							
NK Brand	NK0243-3120-EZ1	CB,LL,RR	7.1	* 3200	22900	70.1	39	63	29	8.7	* 6.5	6.1							
105-DAY HYBRID TRIAL AVERAGE##						70.1													
Jung	53SS517RIB	CB,LL,RR,RW	7.6	3000	22900	70.1	39	59	28	8.5	* 7.2	7.2	9.8	3050	29800	9.5	* 9.2	* 10.5	
ProHarvest	X18550	CB,RR	7.0	2800	20400	70.1	43	61	23	* 9.7	4.6	6.9							
LG Seeds	LG5505STXRIB	CB,LL,RR,RW	7.7	2910	22700	70.2	40	61	26	9.4	* 6.5	7.1	8.8	3060	27200	8.8	8.2	9.3	
Prairie Hybrids	4718	None	* 8.3	* 3150	* 26300	70.2	39	60	30	9.0	* 8.0	7.9	9.7	* 3220	31500	9.8	8.3	* 11.1	
Renk	RK626SSTX	CB,LL,RR,RW	7.7	2980	* 23300	70.3	41	59	26	9.1	* 6.2	7.7							
LG Seeds	LG51C48VT2PRO	CB,RR	* 8.1	* 3090	* 25100	70.3	39	62	28	9.5	* 7.2	7.5							
InVision	FS 51QX1 RIB	CB,LL,RR,RW	7.2	2990	21700	70.4	40	59	27	8.1	* 7.0	6.6	9.2	3050	27900	9.8	* 8.5	9.2	
Dairyland	DS-4318AM	CB,LL,RR	7.7	3020	* 23400	70.4	39	61	27	9.1	* 8.1	5.8	* 10.1	* 3250	* 33000	* 10.9	* 8.7	* 10.8	

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Table 19 (continued). North Central Zone - Late Maturity Silage Trial. (page 2 of 2)

100 day Relative Maturity or later based on company rating (Chippewa Falls= CHP, Marshfield= MAR, Valders= VAL)

Brand	Hybrid	Traits†	2019										2018						
			Average				Moist	NDF	NDFD	Starch	Yield (T/A)			Average			Yield (T/A)		
			Yield (T/A)	Milk per Ton	Milk per Acre	CHP					MAR	VAL	Yield (T/A)	Milk per Ton	Milk per Acre	CHP	MAR	VAL	
Renk	RK710DGVT2P	CB,DT,RR	* 8.2	3020	* 24900	70.4	39.2	61	26.9	9.1	* 7.9	7.6	10.0	3040	30100	10.2	* 8.9	* 10.9	
Masters Choice	MC5790	None	* 8.7	3000	* 26300	70.4	40.3	61	26.5	9.6	* 8.4	* 8.2	9.1	3040	27600	9.8	8.1	9.4	
Jung	51SS500	CB,LL,RR,RW	7.0	* 3050	21600	70.5	39.8	62	27.1	7.9	* 6.0	7.2							
Legacy Seeds	L5438-3010	CB,LL,RR	* 8.0	* 3090	* 25200	70.5	40.4	62	27.0	* 10.7	* 6.7	6.6							
Masters Choice	MCT5454-3111	CB,LL,RR,RW	6.0	* 3060	18800	70.6	40.6	59	27.3	8.0	3.1	7.0	8.9	* 3140	27900	9.0	8.0	9.6	
Renk	9S-108	None	7.4	2980	22700	70.6	43	62	24	8.4	* 6.6	7.4							
Renk	RK724RR	RR	6.7	* 3070	20600	70.7	39	62	27	8.1	4.9	7.0							
110-DAY HYBRID TRIAL AVERAGE##						70.7													
InVision	FS 5098X RIB	CB,LL,RR,RW	* 8.1	2980	* 24400	70.8	40	59	27	9.5	* 7.4	7.4							
Legacy Seeds	L5217VT2P(RIB)	CB,RR	* 8.1	3020	* 24800	70.9	40	60	27	9.3	* 7.5	7.5							
Golden Harvest	G04S19-3122 EZ	CB,LL,RR,RW	7.7	3000	23200	71.0	41	61	26	* 9.8	* 6.0	7.2							
Beck's	5829A4	CB,LL,RR,RW	* 8.4	2920	* 24700	71.0	44	60	24	8.4	* 7.6	* 9.3							
Prairie Hybrids	5787	None	* 7.8	* 3210	* 25500	71.1	38	63	30	* 9.9	* 7.1	6.5							
Jung	HDS76S76RIB	CB,LL,RR,RW	* 8.1	2590	21200	71.2	46	55	20	8.7	* 7.8	7.7							
Dairyland	DS-7004RA	CB,LL,RR	7.7	* 3070	* 24100	71.2	41	61	27	9.4	* 6.7	7.2							
Jung	HDS36R22	RR	7.2	2640	19100	71.4	46	59	20	7.7	* 7.1	6.9	9.0	3030	27600	8.0	* 8.8	10.2	
Tracy Seeds	T104-13 (3000GT)	CB,LL,RR,RW	6.7	2950	20200	71.6	41	60	26	8.6	4.7	6.8	9.7	* 3200	30900	9.8	* 9.0	10.2	
Prairie Hybrids	5200	None	* 7.9	3000	* 24100	72.3	41	60	26	8.8	* 7.2	7.8	* 10.8	* 3220	* 34600	* 11.9	* 9.0	* 11.4	
Blue River Organic	51T59	None	7.5	2800	21600	72.6	43	60	23	9.4	5.6	7.6	9.7	* 3160	30800	9.8	* 8.9	10.4	
Dairyland	HiDF3802AMXT	CB,LL,RR,RW	7.1	2860	20500	73.3	44	61	22	8.8	* 6.6	5.8							
Beck's	5765AMXT	CB,LL,RR,RW	7.7	2760	21800	73.8	42	63	22	* 9.8	* 6.4	6.9							
MEAN			7.6	3020	23200	70.1	40	61	27	9.0	6.6	7.1	9.4	3140	29500	9.8	8.5	9.8	
LSD(0.10)**			0.9	170	3400	1.9	2	2	3	1.0	2.5	1.3	0.7	160	2800	1.6	0.9	0.9	

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average whole plant moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Figure 4. Relationship between Milk per Acre and Milk per Ton of corn hybrids in North Central Wisconsin during 2019.

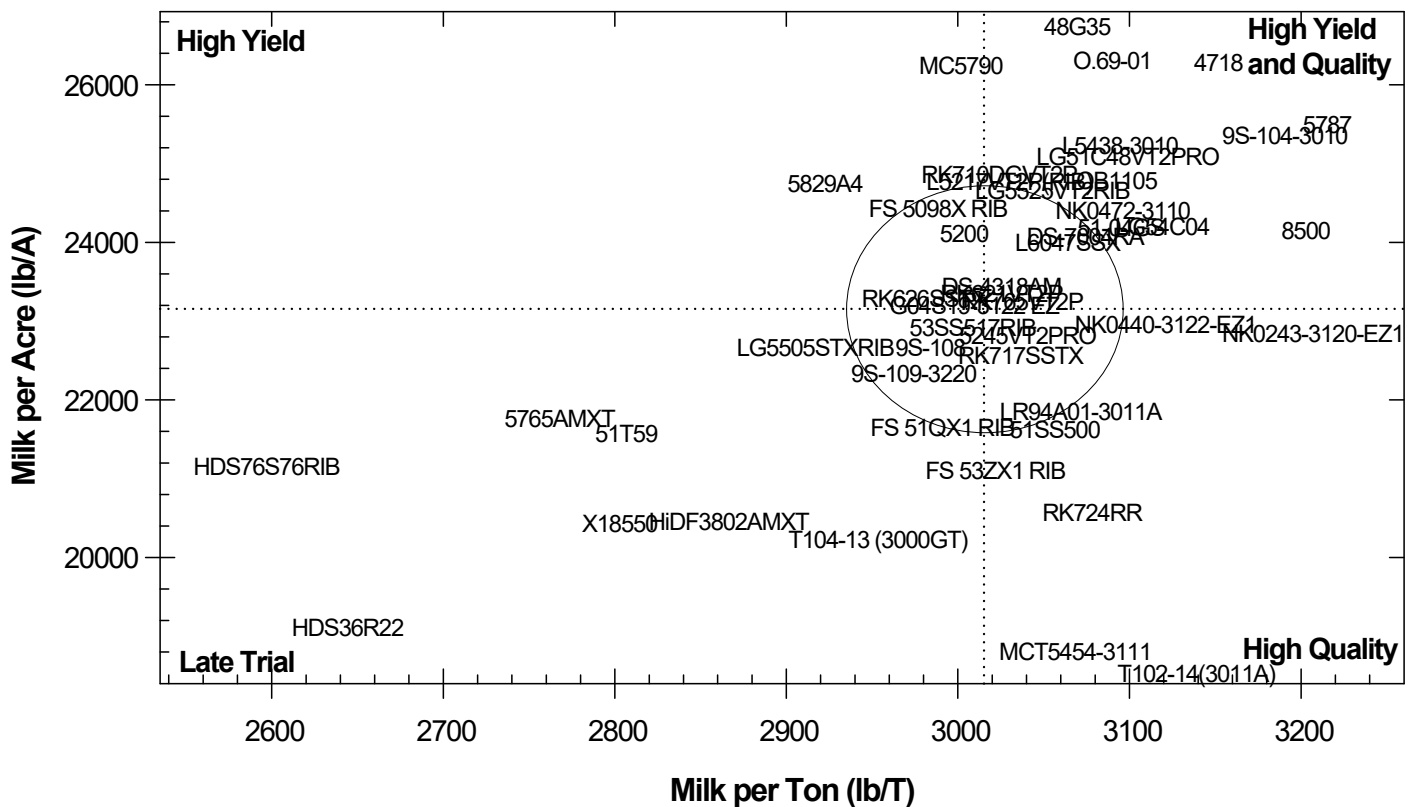
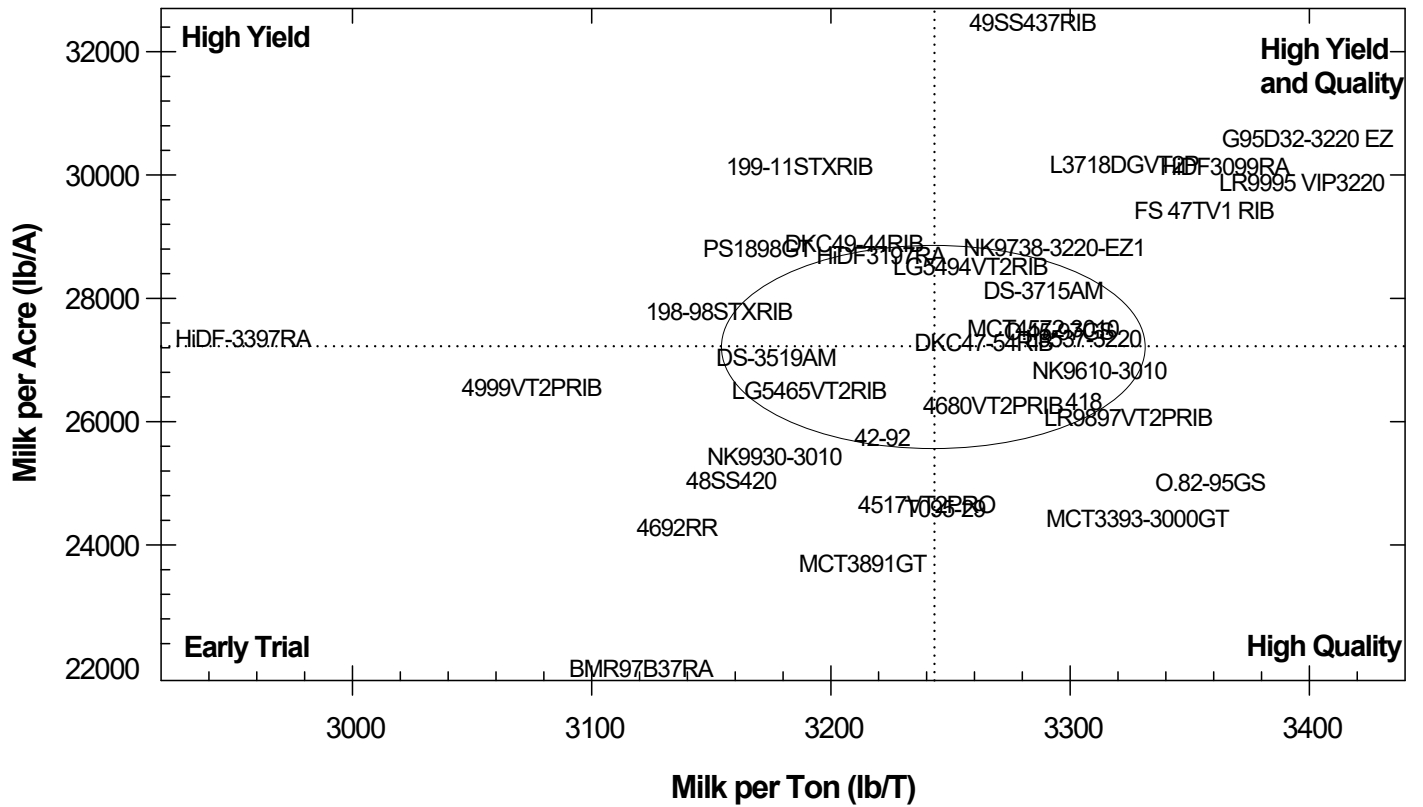


Table 20. Northern Zone Silage Trial. (page 1 of 2)

(Coleman= COL, Marshfield= MAR Spooner irrigated sand= SPI, Spooner dryland silt loam= SPS)

Brand	Hybrid	Traits†	2019										2018						
			Average							Yield (T/A)			Average			Yield (T/A)			
			Yield (T/A)	Milk per (Ton Acre)		Moist %	NDF %	NDFD %	Starch %	COL	SPI	SPS	Yield (T/A)	Milk per (Ton Acre)		COL	MAR	SPI	SPS
Dekalb	DKC32-12RIB	CB,RR	7.9	3140	25000	54.0	39	60	32	8.6	7.4	7.8							
Masters Choice	MCT2552-3110	CB,LL,RR	6.8	*3250	21900	55.0	39	60	33	6.8	6.7	6.8	6.5	*3230	21200	7.8	6.2	6.4	5.7
Masters Choice	MCT3393-3000GT	CB,LL,RR,RW	7.8	3150	24800	57.7	41	59	31	6.0	8.8	8.6							
Channel	185-30VT2PRIB	CB,RR	8.0	3180	25400	58.2	40	60	31	8.2	7.5	8.2							
InVision	FS 37TV1 RIB	CB,RR	*8.5	3190	*27100	59.4	41	59	30	8.4	9.0	8.1	8.4	*3220	27100	10.0	7.7	7.7	8.0
InVision	FS 45SV1 RIB	CB,RR	8.2	3110	25500	59.7	40	60	30	7.4	8.4	8.7	8.3	3200	26700	9.0	7.7	7.8	8.6
Jung	36DP310	CB,RR	7.6	*3410	*26000	59.8	35	63	35	7.7	7.6	7.6							
Dekalb	DKC37-50RIB	CB,RR	*8.4	3200	*26800	60.1	40	60	30	*9.6	6.9	8.7							
NK Brand	NK8881-3010A	CB,LL,RR-wo	8.1	*3280	*26800	60.2	38	61	32	8.4	7.1	*9.0	8.7	3150	27600	10.1	7.4	8.2	*9.3
Masters Choice	MCT3891GT	RR	6.7	*3260	21900	60.3	39	61	31	6.8	4.7	8.8	8.0	3100	24800	9.5	6.6	7.9	8.1
85-DAY HYBRID TRIAL AVERAGE##						60.4													
Viking	42-92	None	*9.1	3210	*29200	61.7	40	61	30	*9.2	8.9	*9.1	9.2	*3210	29700	*10.3	*8.8	*8.7	*9.1
Viking	71-90GS	None	*9.1	*3280	*29700	61.9	38	62	32	*9.2	*9.5	8.5	*9.5	*3300	*31300	*11.5	8.6	*9.3	8.5
InVision	FS 35SV1 RIB	CB,RR	6.8	3140	21300	62.2	41	59	29	6.8	6.7	6.8	7.7	*3310	25800	9.5	6.9	7.1	7.4
NK Brand	NK8519-3220-EZ1	CB,LL,RR	*8.9	*3320	*29600	62.3	39	61	32	*9.3	*9.2	8.2							
Federal Hybrids	4240VT2PRIB	CB,RR	*9.6	3180	*30400	63.1	40	61	30	*9.9	*9.3	*9.5							
Jung	4D178RIB	CB,RR	7.5	3190	23800	63.7	40	60	30	7.5	7.2	7.7	8.3	*3240	27000	9.8	7.9	7.7	7.8
Viking	O.82-95GS	None	*8.4	*3230	*27000	63.8	40	63	29	*8.8	7.3	8.9							
Latham	4242VT2PRO	CB,RR	*9.3	3150	*29200	64.1	40	61	29	*9.6	*9.3	*9.0	*9.3	3180	29500	10.1	*9.1	*9.3	8.5
LG Seeds	LG44C27VT2RIB	CB,RR	*9.3	3140	*29300	64.2	42	62	28	*8.9	10.0	*9.1	*9.4	*3290	*30800	*10.6	*9.4	*8.9	8.5
Dairyland	HIDF3197RA	CB,LL,RR,RW	*8.7	3120	*27300	64.4	42	62	27	*9.1	7.8	*9.3	9.0	3160	28600	*10.5	8.5	8.1	*8.9
90-DAY HYBRID TRIAL AVERAGE##						64.4													
NK Brand	NK9175-3110A	CB,LL,RR-wo	*9.1	*3260	*29700	64.5	39	61	31	8.3	9.0	*10.0							
Dairyland	DS-3715AM	CB,LL,RR	*9.4	*3260	*30500	64.6	39	63	30	10.0	8.8	*9.4							
Dairyland	DS-3519AM	CB,LL,RR	*9.2	3180	*29200	64.7	39	59	30	*9.2	8.6	*9.6							
Renk	RK433VT2P	CB,RR	*8.6	3070	*26600	64.7	41	60	27	7.8	9.0	*9.1							
LG Seeds	LG5465VT2RIB	CB,RR	*9.1	3170	*28800	64.7	40	62	29	8.4	*9.5	*9.3							
InVision	FS 41TV1 RIB	CB,RR	*8.5	3090	*26400	65.1	42	62	26	8.6	8.2	8.6	8.5	3200	27300	8.7	8.4	*9.0	7.9
Latham	4375VT2PRO	CB,RR	*8.8	3170	*27800	65.3	40	62	28	10.0	8.0	8.4							
Legacy Seeds	L3537-3220	CB,LL,RR	*8.7	3180	*27700	65.6	39	62	29	8.1	8.9	*9.0							

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Table 20 (continued). Northern Zone Silage Trial. (page 2 of 2)

(Coleman= COL, Marshfield= MAR Spooner irrigated sand= SPI, Spooner dryland silt loam= SPS)

Brand	Hybrid	Traits†	2019										2018						
			Average							Yield (T/A)			Average			Yield (T/A)			
			Yield (T/A)	Milk per (Ton Acre)		Moist %	NDF %	NDFD %	Starch %	COL	SPI	SPS	Yield (T/A)	Milk per (Ton Acre)		COL	MAR	SPI	SPS
Prairie Hybrids	418	None	* 9.2	* 3270	* 30000	65.6	38	64	30	8.6	* 9.5	* 9.4	8.9	* 3310	29400	10.4	* 8.8	8.3	8.0
LG Seeds	LG38C18VT2RIB	CB,RR	* 8.5	* 3250	* 27800	65.6	38	61	30	8.2	8.6	8.8	8.2	* 3270	27000	10.6	7.4	7.1	7.7
LG Seeds	LG42C63VT2RIB	CB,RR	7.6	3220	24300	65.7	39	63	29	6.9	8.1	7.6							
Latham	4517VT2PRO	CB,RR	* 8.4	3060	25800	65.8	40	61	27	* 8.8	7.3	* 9.2							
Channel	192-98STXRIB	CB,LL,RR,RW	* 9.2	3110	* 28700	65.9	40	63	27	8.3	* 9.5	* 9.8	8.8	* 3320	29100	9.7	* 8.8	7.6	* 9.1
95-DAY HYBRID TRIAL AVERAGE##						66.0													
Renk	RK561DGV2P	CB,DT,RR	8.1	3150	25400	66.2	40	63	27	* 8.8	6.3	* 9.1							
Masters Choice	MCT4572-3010	CB,LL,RR	* 8.8	3170	* 27800	66.7	40	61	29	* 9.1	8.2	* 9.0							
Legacy Seeds	L3517VT2P(RIB)	CB,RR	* 8.5	3070	* 26200	67.0	41	62	27	8.0	8.9	8.6							
Dairyland	HiDF-3397RA	CB,LL,RR,RW	* 9.2	2860	* 26400	67.0	44	63	22	8.1	10.4	* 9.3							
LG Seeds	LG5410VT2RIB	CB,RR	* 9.2	3050	* 28300	67.6	42	62	25	* 9.3	8.9	* 9.5	9.2	3160	29100	10.1	* 9.8	8.1	* 8.7
Jung	46SS428	CB,LL,RR,RW	6.8	2970	21500	67.9	41	62	25	2.9	8.7	8.9	* 9.5	* 3330	* 31600	10.0	* 9.8	8.4	* 9.7
Federal Hybrids	4160VT2PRIB	CB,RR	7.8	3040	24500	67.9	41	60	26	4.9	8.6	* 9.9	* 9.3	3190	29800	11.1	8.6	* 8.6	* 9.0
NK Brand	NK9227-3220A-EZ1	CB,LL,RR-wo	* 8.9	3050	* 27100	67.9	42	61	26	8.4	* 9.5	8.7	8.8	3150	28000	9.6	8.6	* 8.6	8.5
Jung	7S378RIB	CB,LL,RR,RW	8.3	3050	25200	68.7	41	62	26	8.2	8.3	8.3	9.0	3130	28300	10.1	* 9.0	* 9.3	7.6
Renk	RK593VT2P	CB,RR	* 9.2	2950	* 27100	68.8	42	64	24	* 9.4	* 9.2	* 9.0							
Renk	RK579DGV2P	CB,DT,RR	* 9.1	3010	* 27300	69.1	42	62	26	* 8.9	8.5	* 9.8							
Mycogen	BMR97B37RA	CB,LL,RR,RW-bmr	7.0	2660	18700	72.7	43	69	18	7.1	6.6	7.3							
MEAN			8.4	3140	26600	64.0	40	62	29	8.2	8.3	8.8	8.7	3200	27900	9.8	8.3	8.2	8.4
LSD(0.10)**			1.3	180	4600	2.4	2	2	3	1.4	1.3	1.0	0.6	120	2500	1.3	1.0	1.2	1.1

† Traits: CB=Corn Borer, DT=Drought Tolerant, LL=Liberty Link, RR=Roundup Ready, RW=Corn Rootworm, lfy=Leafy, ND=Nutri-Dense, wo=Water Optimize.

Average whole plant moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Figure 5. Relationship between Milk per Acre and Milk per Ton of corn hybrids in Northern Wisconsin during 2019.

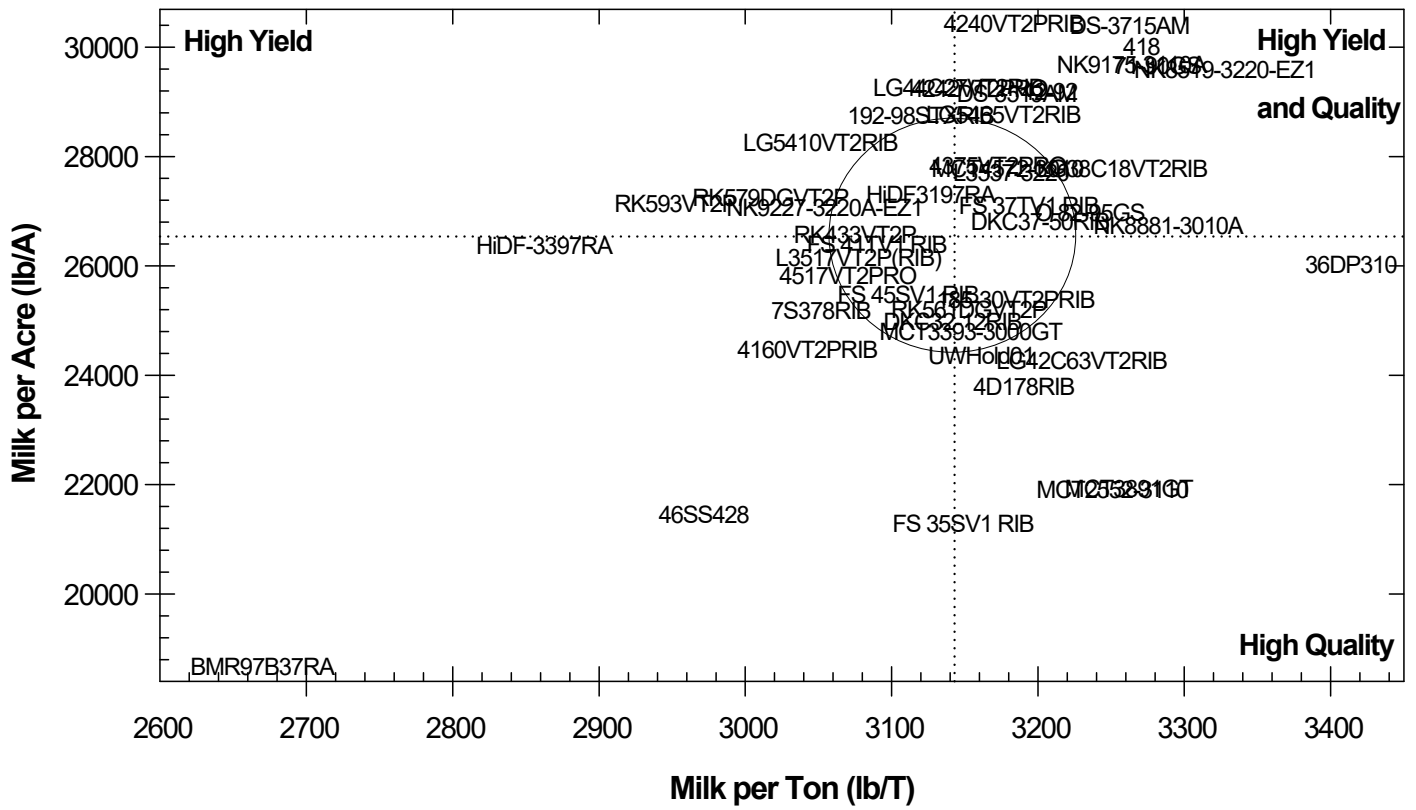


Table 21. Southern Zone - Organic Grain Trial.

(Arlington= ARL, Janesville= JAN, Montfort=MON)

			2019							
Brand	Hybrid	Traits†	Average					Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	ARL	JAN	MON
Blue River Organic Seed	38G54	None	218	97	23.4	53	11	199	214	* 239
Viking	O.51-04P	None	* 247	* 104	24.6	53	5	* 256	213	* 268
Organic	UW Check F-HW	None	* 244	* 103	25.0	53	3	* 249	* 228	* 255
Blue River Organic Seed	48G35	None	203	91	26.3	53	22	215	* 235	162
105-DAY HYBRID TRIAL AVERAGE##					26.8					
Foundation Organic	ORG8513	None	193	88	27.2	53	20	210	176	195
Foundation Organic	EXP107	None	* 258	* 105	27.6	51	3	* 257	* 243	* 272
Viking	O.48-08P	None	* 253	* 104	28.4	53	0	* 255	* 229	* 276
Viking	O.74-10GS	None	* 257	* 105	28.9	53	1	* 271	* 242	* 259
Masters Choice	MC5790	None	* 244	* 102	29.6	54	0	* 250	* 230	* 256
Prairie Hybrids	7781 ORG	None	* 245	* 101	30.4	54	5	* 265	215	* 253
MEAN			236	100	27.2	53	7	243	223	244
LSD(0.10)**			26	7	1.6	1	16	28	15	38

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 22. South Central Zone - Organic Grain Trial.

(Fond du Lac= FON, Galesville= GAL, Hancock= HAN)

Brand	Hybrid	Traits†	2019							2018				
			Average				Yield (bu/A)			Average		Yield (bu/A)		
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	FON	HAN	Yield (bu/A)	P.I. #	FON	GAL	HAN
Viking	O.84-95UP	None	180	* 102	23.5	53	5	173	187	190	95	183	178	212
Blue River Organic Seed	38G54	None	167	98	23.8	51	4	160	173					
Organic	UW Check E	None	* 204	* 109	24.7	52	0	* 197	210					
Blue River Organic Seed	33A16	None	147	90	25.8	53	11	149	144					
Foundation Organic	OR8799	None	156	94	25.8	51	4	179	133					
Foundation Organic	OR-EXP100	None	* 209	* 109	26.4	51	0	* 204	213					
Viking	O.98-98P	None	150	92	27.0	52	7	173	128					
100-DAY HYBRID TRIAL AVERAGE##			28.2											
Viking	O.51-04P	None	* 210	* 108	28.8	49	1	* 203	216					
Prairie Hybrids	2741	None	174	98	28.9	50	1	* 198	151					
Foundation Organic	EXP98-80	None	175	98	29.7	52	1	* 199	152					
Foundation Organic	ORG8500	None	* 225	* 112	30.0	51	0	* 198	* 251	* 229	* 103	* 225	230	229
Viking	O.69-01P	None	162	93	31.0	50	3	171	152					
Viking	O.55-02UP	None	165	94	31.0	51	2	162	167					
Prairie Hybrids	4211	None	* 205	* 105	32.1	53	1	* 187	* 224					
105-DAY HYBRID TRIAL AVERAGE##			32.3											
Prairie Hybrids	4711	None	* 190	100	33.5	51	1	* 198	181	219	99	* 222	211	227
Foundation Organic	ORG8507	None	180	97	33.7	49	1	* 191	169	* 232	* 102	217	* 239	* 243
MEAN			181	100	28.5	51	3	184	178	217	100	211	215	227
LSD(0.10)**			37	11	3.5	1	8	18	28	20	5	18	22	19

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 23. North Central Zone - Organic Grain Trial.

(Chippewa Falls= CHP, Marshfield= MAR, Seymour= SEY, Valders= VAL)

Brand	Hybrid	Traits†	2019						2018						
			Average			Yield (bu/A)			Average			Yield (bu/A)			
			Yield (bu/A)	P.I. #	Moist %	Test Wt.	Lodge %	CHP	SEY	VAL	Yield (bu/A)	P.I. #	CHP	MAR	SEY
Blue River Organic Seed	21B11	None	168	* 100	25.8	52	3	198	171	* 137					
Foundation Organic	7700	None	169	* 100	27.0	52	2	185	* 195	* 130					
Blue River Organic Seed	26B78	None	171	* 99	27.4	53	6	196	178	* 135					
Viking	O.82-95P	None	163	* 97	28.8	52	1	190	166	127					
Foundation Organic	ORG8801	None	* 179	* 101	29.2	53	2	197	* 201	* 136	202	* 99	195	* 187	200
95-DAY HYBRID TRIAL AVERAGE##						29.3									
Foundation Organic	8749UT	None	175	* 99	30.7	50	6	191	* 198	* 140	190	96	185	176	197
Viking	O.84-95UP	None	* 187	* 103	30.8	50	1	209	* 193	* 154	191	* 99	194	* 182	* 214
Viking	O.98-98P	None	* 180	* 101	31.0	48	1	224	180	* 141					
Organic	UW Check E	None	* 185	* 102	31.0	51	2	215	178	* 156					
Organic	UW Check E-HW	None	* 184	* 101	31.1	51	8	212	* 186	* 153					
100-DAY HYBRID TRIAL AVERAGE##						33.4									
Prairie Hybrids	1231	None	* 184	* 100	34.2	52	3	228	177	* 151					
Prairie Hybrids	2741	None	* 194	* 102	34.5	51	3	* 254	182	* 148					
Viking	O.69-01P	None	163	92	38.0	50	1	200	179	119					
MEAN			177	100	30.7	52	3	208	183	140	203	100	203	176	209
LSD(0.10)**			18	6	4.1	5	4	18	18	26	21	7	26	15	40

Average grain moisture of all hybrids in the trial as rated by the participating company maturity rating systems. Ratings are rounded to 5 day increments.

* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Table 24. Comparisons over time of all hybrids tested between 2019 and 2017. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or Milk2006) in one or more zones.

Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested
Hybrid		Hybrid		Hybrid		Hybrid	
AgriGold		*5113AM	19*	*209-15STXRIB	19*,18*,17*	DS-2918AM	18
A6179STXRIB	17,16,15	*5140HR Brand	17*	*209-53STXRIB	17,15*	*DS-3030AM	19*
A61890VT2RIB	18	*5513AMXT Brand	17*,16*	210-98STXRIB	19,18	DS-3370YHR	19
A6199STXRIB	17,16,15	*5665AMX Brand	17*,16*			*DS-3518AMXT	19,18*
A621-77STXRIB	19,18	5765AMXT	19	Cornelius		*DS-3519AM	19*,18*
A624-06VT2PRO	19	*5829A4	19*,17*,16*	5695VT2P	18	*DS-3550YHR	19*
A624-11-3110	17	5883SX	17	6035VT2P	18	*DS-3715AM	19*,18*
A624113220AEZ	18	6127A3	17	*6325VT2P	18*	*DS-3750YHR	19*
A625-78VT2RIB	19,18	6274SX	17	*6376	19*,18*	*DS-3810YHR	19*
A6257STXRIB	17,16	*6365AM Brand	17*	*6438DP	19*	*DS-4018AM	19*,18
A6267STXRIB	17,16*,15	EX1736 Brand	17	*6869	19*	*DS-4019AM	19*,18*
A627-83VT2RIB	19	*21B11	19*	6963	18	*DS-4310YHR	19*
A628-20VT2RIB	19,18,17*	*26B78	19*	7228SS	18	*DS-4317AM	19*,18*
A6283VT2RIB	17,16			C271DP	18	*DS-4318AM	19*,18*
A629-12VT2PRO	19	Blue River Organic		C324DP	18,16	*DS-4329AM	19*,18*
A629-22STXRIB	19,18*	*27B16	18*,17*	*C349SS	19*	*DS-4440AM	19*
A62922STX	17	*33A16	19,17*,16*	C380	17	*DS-4580CYXR	19*
A63031VT2RIBD1	17	*33ND10	18*,17*	*C385DP	19*	*DS-4816AM	19*,18*
A63138VT2PRO	18	*38G54	19,18*,17*	*C385SS	19*,18*	*DS-4840AM	19*
A632-07STX	19	45G28	17	*C408DP	18,17*,16*	*DS-499AM	18*
A63394STX	18	*48G35	19*,18*,17*,16*	C449DP	17,15	*DS-5018AM	19*,18*
A634-93	19	*51T59	19,18*,17*,16*	*C452SS	17*	*DS-5329AM	19*,18*
A6346VT2RIB	17	*57A30	19*,18*	C457DP	18	*DS-562XRR	18*
A635-54VT2RIB	19,18*,17*	*62G22	19*,18*,17*	*C461SS	19*,18*,17*	*DS-7004RA	19*
A6351STXRIB	17,16	66G25	17	*C478DP	19*,18*	DS1091	17,16
A636-11STX	19			C495SS	18	*DS6106	17*
A63655VT2RIB	18,17	Brunner		*C508	18*	DS7185	17
A63656STXRIB	18,17*	2865A	17,16	C555-3010	18	*DS7215	18*
A637-55VT2RIB	19,18*	2865GTA	18,16	C564DP	18	*DS7294	17*,16*
A638-44DGVT2PRO	19	*2897GT-3010	19,18,17*	C564SS	18	*DS7294a	18*
A638-74VT2RIB	19,18*	*3915GT-3110	18,17*,16	C568	18	*DS7603PE	18*
A638-84	19	*3920	17,16,15*	C5713SS	19	*DS7909PE	18*
A63894STX	18	3946GT-3110A	17	C573DP	18	DS9090SSX	17
A639-40VT2RIB	19,18*,17*	*4044	19*,18,17*,16	*C575DP	19*	*DS9508RA	18,17,16,15*
A639-70STX	19	*EXP102	19*	*C577SS	19*	*DS9510RA	18*,17
A63941STX	17	EXP105A	18	C585DP	17	*DS9599	18*,17*,16,15
A640-77VT2RIB	19,17	*EXP109	19*	*C621SS	17,16*,15*	DS9686	18,17,16
A64077STXRIB	18	*EXP95A	19*,18*	*C633DP	19,18,17*	DS9701RA	17,16
A641-06STXRIB	19,18			*C6401SS	19*	DS9713RA	18,17
A641-54VT2PRO	19	Burrus		C667SS	18	DS9802RA	17
A6413STXRIB	17,16*	*4T46SS	19*	*C7125DP	19*	DS9804RA	18,17
A64178STXRIB	18,17	*X6R20-3000GT	17*	*C733SS	17,16*,15*	*EX-08906	17*
A64259STX	17			*C7366DGDP	19*	*EX-09604	17*
A6462STXRIB	17,16*,15*	Channel		*C7551SS	19*	EX-09706	17
A6499STXRIB	17,16	185-30VT2PRIB	19	C765SS	17	*EX-11007	17*
		192-98STXRIB	19,18*			*EXP-08508AMXT	19*
Augusta Seed		195-18VT2PRIB	17	Croplan Genetics		*EXP-10206	18*
A2039-3120GTEZ	19	*198-98STXRIB	19,18,17*,16*	*4188VT2P	19*	*EXP-10411	18*
A2345-3220GTEZ	19	*199-11STXRIB	19*	3899VT2PRIB	18	EXP-10617	18
A3054-3010GT	19	*202-81STXRIB	18*	3909SSRIB	18	EXP-10813	18
		203-01STXRIB	17,16*	4099SSRIB	18	*EXP-11014	18*
Beck's		*204-74VT2PRIB	19*,18*,17*			*EXP-11016	18*
4824BR	17	*206-11STXRIB	18*,17*	Dairyland		*EXP-11113	18*
4919SX	17,16	*207-27STXRIB	19*,17*,16*,15*	DS-2220AM	19	*EXP-11315	18*

Table 24 (continued). Comparisons over time of all hybrids tested between 2019 and 2017. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or Milk2006) in one or more zones.

Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested
Hybrid		Hybrid		Hybrid		Hybrid	
* EXP-11316	18*	* DKC60-87RIB	18*,17*	8749	18	* G04S19-3010	18*
* HiDF-3397RA	19*	* DKC61-41RIB	19*	* 8762	17*,16	* G04S19-3122 EZ	19*
* HiDF3099RA	19*,18*,17*	* DKC62-20RIB	19*,17*	* 8801	17*,16,15	G05B91-3010	17
* HiDF3188-6	18*,15*	* DKC63-60RIB	18,17*	8830	18	G05K08-3010	19
* HiDF3188RA	17*,16*	* DKC63-90RIB	19*	8855	19,18,17	G06Q68-3220 EZ1	18
* HiDF3197RA	19*,18*,17*,16*	* DKC64-34RIB	19*	8885GTCBLLBL	19	G07A24-3010	18
* HiDF3202PE	18*			8972	18,16	* G08M20-3120 EZ	19*
HiDF3211RA	19,18,17	DuPont Pioneer		8978GT	19,18	G09A86-3111	17
* HiDF3290-9	18*,17*,16*,15*	* P0157AMX	18*,16,15	EXP095	18	* G09E98-3122	17,16*
* HiDF3308AM	19*	* P0306AM	19,18*	* HDS84	17,16*,15*	* G09Y24-3220A EZ	19*,18*
* HiDF3407RA	19*,18*,17*	* P0506AM	17,16,15*	* HDS85	17*,16*,15*	G10L16-3330 EZ	19
* HiDF3413SSX	18,17*	* P0574AMXT	19,18*			* G10T63-3120 EZ	19*,18*,17*,16*
* HiDF3510SSX	18*,17*,16*,15*	* P0783XR	18*	Foundation Organic		* G12W66-3000GT	18*,17,16*
* HiDF3605RA	18*,17*,16*	* P9188AM	18,16*,15*	* 7700	19*	* G12W66-3122 EZ	19*
* HiDF3702-9	18*,17,16*,15*	* P9492AM	19*,18*	8749UNT	18	* G84J92-3011A	17,16*,15
* HiDF3802AMXT	19*	* P9998AMXT	19*,18*	* 8749UT	19*,18	* G89A09-3010	17*
* HiDF3808RA	19,18*,17,16*	P0389AMXT	19	* 8762UT	17*,16*	* G90Y04-3220A	18*,17*,16*,15*
HiDF3915SSX	17			* 8830UT	17*,16,15	* G94U87-3110A	17*
		Federal Hybrids		8847	17	* G95D32-3110	17*,16*,15*
Dekalb		3190VT2P	18	* 8855UT	18*,17	* G95D32-3220 EZ	19*,18*
DKC26-40RIB	18,17	3570VT2PRIB	19,18,17	* EXP103	18*	* G96V99-3120 EZ1	18,17*,16
DKC31-10RIB	18	3660GT3011A	19,18,17,16,15	* EXP107	19*	* G97N86-3110	18*,17*
DKC32-12RIB	19,17,16	3790VT2PRIB	19,18	EXP98-80	19	G97N86-3220 EZ	19
DKC35-88RIB	17,16	3880VT2PRIB	18,17	HDC106	18	* G98L17-3000GT	17*,16*
* DKC37-50RIB	19*,18	3890VT2P	18	* OR-EXP100	19*	* 47N2	18*
* DKC40-77RIB	18,17,16*	* 4160VT2PRIB	19*,18*,17*,16*	OR8799	19	* 52F3	18*
* DKC41-99RIB	19,17*	* 4180VT2P	17*	ORG7957	17	* 55E4	18*
DKC42-04RIB	19	* 4190VT2PRIB	19,18*	* ORG8500	19*,18*,17*	* 55G3	18*
DKC42-05RIB	18	4240SSRIB	17	* ORG8507	19,18*,17,16*,15*		
* DKC43-75RIB	19*	* 4240VT2PRIB	19*,16	ORG8513	19,15	Great Lakes	
* DKC44-80RIB	19*	4470VT2PRIB	18,17,16	ORG8600	17	3337VT2RIB	17,16,15
* DKC45-65RIB	17,16*,15*	* 4580VT2PRIB	19*,18*,17*	* ORG8700	18,17,16*,15	3622VT2RIB	17
* DKC46-36RIB	17,16*,15*	* 4680VT2PRIB	19*,18*,17*	* ORG8801	19*,18*17*16*,15	* 3870VT2RIB	17*
* DKC46-79RIB	18*,17*,16*	* 4700SS	19*			* 4062VT2RIB	17*
* DKC47-54RIB	19*	* 4780VT2P	18*	Frontiersmen		* 4250VT2RIB	17*,15*
* DKC49-44RIB	19*	4880VT2PRIB	19	081-Y0-3110A	19	4333-3110A	17
* DKC49-73RIB	17*	4990SS	18	087-E7VT2P	19	* 4548VT2RIB	17*
* DKC50-08RIB	18,17*	4990VT2PRIB	19	090-H3	17	* 4728VT2PRO	17*
* DKC51-38RIB	18,17*	* 4999SS	18*	* 090-H8VT2P	19,18*	* 4988VT2PRO	17*
* DKC51-91RIB	18*	* 4999VT2PRIB	19*	094-D7	18,17	* 5029VT2RIB	17*,16*
* DKC52-35RIB	19*	* 5000VT2P	19*	* 096-R8VT2P	19*,18*	* 5283STXRIB	17*,16*,15
* DKC52-68RIB	18*,17*,16*	5060SSRIB	18	097-D8	17	* 5470STXRIB	17*,16,15
* DKC53-27RIB	19*	* 5280SSRIB	18*,17	* 100-W0VT2P	19*	* 5556VT2RIB	17*,16*
* DKC54-65RIB	19*	* 5280VT2PRIB	19*	101-C7	17	* 5626VT2PRO	17*
* DKC55-37RIB	19*	* 5370SSRIB	18,17,16*	* 103-C7	17*	* 5824STXRIB	17,16*
* DKC55-53RIB	19*	5550SSRIB	17,16	103-E8	18	* 5910VT2RIB	17*
* DKC55-84RIB	18*,17*	* 5570SSRIB	18*,17*			5935STX	17
* DKC56-45RIB	17*	5670SSRIB	17	Golden Harvest		* 6068STXRIB	17*,16*,15*
* DKC57-97RIB	17*	* 5690VT2PRIB	19*	G00H12-3010	19	* 6185STXRIB	17*,16,15*
* DKC58-06RIB	19,18*,17*,16*	5700SS	19	* G01D24-3120	17*	* 6224STX	17*
DKC58-34RIB	19,18			* G01P52-3122A	17*,16	6353-3000GT	17
* DKC59-07RIB	19*,18	Foundation Direct		G02K39-3120 EZ	19		
DKC59-81RIB	19	* 8500	19*,18*	* G03C84-3120 EZ1	18,17*		
* DKC60-67RIB	19,16*,15*	* 8549	17*	* G03R40-3110	19*		

Table 24 (continued). Comparisons over time of all hybrids tested between 2019 and 2017. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or Milk2006) in one or more zones.

Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested
Hybrid		Hybrid		Hybrid		Hybrid	
InVision		*47DP429	19,18*	*LG5505STXRIB	19*,18*	*L2937	17*
FS 35SV1 RIB	19,18,17	47SS438	17	LG5505VT2RIB	19,18	L2937(3120EZ)	18
FS 37TV1 RIB	19,18*	*48DP420	19*	*LG5507STXRIB	17,16*	*L3017	18*,17*
FS 41TV1 RIB	19,18*	48SS420	19	LG5520STXRIB	17,16	L3048VT2P	19
FS 43R48A	17	48SS439	18	*LG5525VT2RIB	19*,18*	L3115	18
FS 43RA1 EZR	18	*49SS437RIB	19*,18*,17*,16	LG5530VT2P	17	*L3115(RIB)	17*,16*,15
FS 44TV1 RIB	17,16	4D113RIB	17,16,15	*LG5548STXRIB	19,18*,17,16*,15*	L3117	18
FS 45SV1 RIB	19,18	*4D178RIB	19,18*,17*,16,15	*LG5565STXRIB	18*,16*	*L3335	17*,16*
FS 46RL0 EZR	18,17	4D260RIB	17,16	*LG5590VT2P	19*,17	L3416	17,16
FS 47TV1 RIB	19,18	*4D331RIB	18*,17,16	*LG5606STXRIB	18*	*L3419VT2P	19*
FS 49ZX1 RIB	17	4D341RIB	17,16	*LG5618STXRIB	17,16*,15*	*L3517	17*
FS 5098X RIB	19	*4D378RIB	17*	LG57C28VT2PRO	18	*L3517VT2P(RIB)	19*,18*
FS 50VX1 RIB	17,16*	4D381RIB	19,18,17	LG57C33STX	19	*L3537	18*
FS 51QX1 RIB	19,18	*50SS508	17*	*LG58C77VT2RIB	19*,18*	*L3537-3220	19*
FS 52RL0 EZR	18,17*	*51SS500	19*	*LG59C66VT2RIB	19*,18*	L3617VT2P(RIB)	19,18
FS 52ZX1 RIB	17,16*,15	*51SS509	19*,18*	LG60C33VT2PRO	19	L3626	17
FS 53ZX1 RIB	19,18*	*52SS507RIB	19*,18,17*	LG62C02STX	18	*L3715	17,16*
FS 54A00	18	*53SS517RIB	19,18,17*	*LG62C02VT2RIB	19*,18*	*L3718DGV2P	19*,18*
FS 54ZX1 RIB	17,16*,15*	*54SS528	19*,18,17*	LG62C35VT2PRO	19	L3816	17
FS 5594X RIB	19	*56DP538	17*			L3916	17
FS 55RL1 EZR	19	*56SS538	19*,18*	Latham		*L4118VT2P(RIB)	19*
FS 55TX1 RIB	18,17	*57SS530	19*	3755VT2PRO	18	*L4248VT2P	19*
FS 57TX1 RIB	17,16*	58SS529	19,18	*4242VT2PRO	19*,18*,16*	L4317	17
FS 57ZX1 RIB	19,18	*58SS537RIB	19*,18,17,16	*4375VT2PRO	19*	L4433(3122EZ)	18
FS 58G00	18	61SS608	19,18,17	*4517VT2PRO	19*	*L5217	18*
FS 58R49	18	*7S331RIB	18,15*	4692RR	19	*L5217VT2P(RIB)	19*
FS 58RL1 EZR	19	7S378RIB	19,18	*5245VT2PRO	19*	*L5319SSX	19*
FS 59VL1 EZR	19,17*	*7S495RIB	17*	*5495-3122EZR	18*,17*,16	*L5350	18,17*,15*
FS 60QV1 RIB	17,16	*7S522RIB	19,18,17*	*5742RR	19*,18*,17*	L5418	18
FS 60UX1 RIB	19,18*	7S579RIB	17	*5885VT2PRO	18*	*L5438-3010	19*
FS 6194V RIB	19	7S671RIB	17	*6045VT2PRO	18*	*L5516	18,17*,16*
FS 61SX1 RIB	17,16*,15*	*7S711RIB	17*,16*,15	6143-3010A	19	*L5519DGV2P	19*
FS 6299L2 EZR	19	*7S744RIB	19*,18,17*	*6224-3120EZR	18*,17*	*L6047	17*
FS 62R44	17	HDS36R22	19,18	*6285VT2PRO	19*,18	*L6047SSX	19*
FS 62RL1 EZR	18	*HDS76S76RIB	19*	6477VT2PRO	18	*L6334	17*,16*
FS 62TV1DG RIB	17,16*			*EX103VT2PRO	18*	*L6827	17*
FS 62ZX1 RIB	19,18			*EX3695VT2Pro	17*	L6838	18
FS 63ZX1 RIB	19,18,17,16	LG Seeds		EX4067VT2Pro	17	L6918	18
FS 64SX1 RIB	19,18*,17,16	LG30C02VT2RIB	19,18	*EX6187VT2ProDG	17*	L6937	18
FS 6595V RIB	19	*LG38C18VT2RIB	19*,18*	*EX6267VT2Pro	17*	*L7236	18,17*
		LG42C63VT2RIB	19	LH4727VT2PRORIB	17		
Jung		*LG44C27VT2RIB	19*,18*	*LH5335VT2Pro	17*	Legend Seeds	
31DP308	19,18,17	*LG44C34-3110	18*	*LH5635VT2Pro	17*	JSC30J711	18
32DP300	19	*LG51C48VT2PRO	19*	*LH6175VT2PRO	19*,16*,15*	JSC40J684RR	18
36DP310	19	LG5370VT2RIB	19,18	LH6425VT2Pro	17	JSC40J704RR	18
36DP318	19,18,17	*LG5375VT2RIB	19*,18,16			JSC47J086 VIP3220	19
37SS328	19,18	*LG5410VT2RIB	19*,18,17,16*	Legacy Seeds		*JSC47J104-3122	18,17,15*
39DP338	19,18	*LG5420-3110A	17*	L2347VT2P(RIB)	19	*JSC47J988-3120	18*
41DP400	19	*LG5465VT2RIB	19*,18*,17*	L2817	17	*LR9004GT	19*
42DP419	19,18	*LG5494VT2RIB	19*,18*,17*	L2817(RIB)	18	LR9008GENSSRIB	19
43DP417RIB	17,16	*LG5499STXRIB	18,17*,16*,15*	*L2836	17*	*LR9492VT2PRIB	17,16*
46SS427RIB	19,18,17*	LG5499VT2RIB	18	L2847	18,17	*LR94A01-3011A	19*,18*,17*,16*
46SS428	19,18	*LG54C04	19*	L2916	17,16	LR9600GENSSRIB	18
47DP410	19	*LG5505STX	17*	L2918VT2P	19	LR9608GENSSRIB	17,16

Table 24 (continued). Comparisons over time of all hybrids tested between 2019 and 2017. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or Milk2006) in one or more zones.

Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested
Hybrid		Hybrid		Hybrid		Hybrid	
LR9691VT2PRIB	18,16*	*5865SS	17*	*NK9738-3110	18*,17*	*4693	18,16*,15*
LR9701GENSSRIB	19,18,16	*6029VT2P	17*	*NK9738-3220-EZ1	19*	4791	17
LR9701VT2PRIB	17	*6035VT2P	18*	NK9813-3000GT	18	4796	18,17
LR9798VT2PRIB	17	6253SS	17,15	NK9852-3010	18	*4894	18,17*
LR9804GENSSRIB	18,17*	*6275VT2P	17*	*NK9930-3010	19*	4897	18
LR9806GENSSRIB	17	6434SS	17			5701	17
LR9809VT2PRIB	19,18*,17	*6699SS	17,16*	NuTech/G2 Genetics		5702	17
LR9811VT2PRIB	18	*6819SS	17*	*5D906	17*	5704	17
LR9882VT2PRIB	18	6869	17	*5F196	17*,16*,15*	5706	17
LR9886VT2PRIB	19	6940-3110	17	*5F308	17*,16*	5708(3000GT)	17
LR9891VT2PRIB	17	6978VT2P	17,16	*5F503	17*,16*	*5708(3220EZ)	18*
LR9895VT2PRIB	19,18,17*	7091VT2P	17	*5F504	17*,16*	*5803	18*
LR9897VT2PRIB	19,18			*5F510	17*,16*,15	5805	18
LR9903GENSSRIB	19	Mycogen		*5F601	17*,16*	5806	18
LR9905 VIP3220	19	BMR97B37RA	19	*5F701	17*,16*		
LR9907GENSSRIB	18	*F2F712	19*	*5F702	17,16*	Power Plus	
LR9910GENSSRIB	18			*5F709	17,16,15*	*1N07AMXT	18*
LR9912GENSSRIB	19,18	NK Brand		*5F713	17*,16*	*2B77AMXT	17,16*
LR9913 VIP3120	19	N18Q-3011A	17,16,15	*5F811	17*,16*	*2V15AMXT	19*
LR9993GENSSRIB	19	*N27P-3110A	18*,17*,16*	*5FB1010	17*	*2Y06AM	19*,18*,17,16*
LR9995 VIP3220	19	*N35T-3110	17*,16*,15*	5FN5096	17	*3H85	17,16*
LR9996-3120	18	*N36G-3120	17*,16*	5FN6097	17	*4A67AMXT	18*
LR9999VT2PRIB	18	*N40L-3000GT	18*,17*,16*	5FN7099	17	*4J95AMX	17,16*,15*
LR99A09-3220	19	*N45P-3122	17*,16*	*5H502	17*	*4Y34AM	19*
		N63R-3122	17,16	*5H806	17*,16*,15*	*5C17	17*,16*,15*
Masters Choice		*N66V-3122	17*	X5FN9502	17	6G34VT2P	19
MC5790	19,18*	N69D-3000GT	17	X5LN-0308	17	*6P73	17*
MCT2552-3110	19,18*,17	*NK0142-3120	17*			*7W63AM	19*
MCT3393-3000GT	19	*NK0243-3120-EZ1	19*	O'Brien Hybrids		9U13AM	18
MCT3891GT	19,18,17,16*	*NK0330-3120	18*	OB1101	18	*X4A67AM	17*
MCT4572 VIP3110	18,17,16	*NK0440-3010	18*	*OB1104	18,16*		
MCT4572-3010	19	*NK0440-3122-EZ1	19*	*OB1105	19*,16	Prairie Hybrids	
MCT4632 VIP3110	18,17*,16*	*NK0472-3110	19*	*OB1106	19*	*1231	19*
MCT4934 VIP3111	18	*NK0602-3010	18*	*OB1108	17*,16	*2741	19*
MCT5371	17,16*,15*	*NK0624-3220-EZ1	19*,18*	*OB1109	19*,18	3081	18
MCT5454-3111	19,18*,17*,16*	NK0763-3010	18	*OBX1103	17,16*	*3415	18*,17*,16*
MCT6363	17,16	NK0886-3120-EZ1	19	OBX1106	18	*418	19*,18*
MCT6552-3110	19,18	NK0968-3111	17	OBX1107	18	*4211	19*
MCT6653	17	*NK1066-3122-EZ1	19,18*	*OBX112	17*	*4711	19*,18*
		NK1082-3330A-EZ1	19	*OBX1185	19*	*4718	19*,18*,17*
Munson		*NK1205-3120-EZ1	19*	OBX87	17	*5200	19*,18*,17*,16*,15*
4417-3011	17	*NK1284-3122-EZ1	19*	OS110	17	*5787	19*
4417GT	18	*NK1284-3220	18*			*6212	18*,17*
4605VT2P	17	*NK1460-3110	19*	Organic		*7204	17*,15
4821RR	18	*NK8519-3220-EZ1	19*	*UW Check D	18*,17*	*7355	19*,18*
4830-3120EZ	18	NK8618-3011A	18	*UW Check D-HW	18*,17*	*7781 ORG	19*
4877-3010	17,16*	*NK8881-3010A	19*,18	*UW Check E-HW	19*	*8229	17*,16*
5016VT2P	18,17,16*,15*	*NK8920-3120-EZ1	19,17*	*UW Check F-HW	19*	*8759	19*,18*
5204-3010	18,17	*NK9175-3110A	19*	*UW Check E	19*	*EX0094	19*
5286VT2P	17,15	*NK9227-3220A-EZ1	19*,18				
5359-3110A	18,16,15	NK9495-3110A	17	PIP		ProHarvest	
5456VT2P	18	*NK9505-3110	18*	3784	17	2225VT2PRIB	19
5695VT2P	18,17*	NK9535-3220EZ1	18	3888	18	2505RR2	17,16,15
5710VT2P	18,17*	*NK9610-3010	19*	3890	17	2749VT2PRIB	19,18

Table 24 (continued). Comparisons over time of all hybrids tested between 2019 and 2017. A star (*) indicates that the hybrid performed statistically similar to the highest hybrid for yield or performance index (P.I. or Milk2006) in one or more zones.

Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested	Brand	Year(s) tested
Hybrid		Hybrid		Hybrid		Hybrid	
4203VT3PRIB	17,16	*RK408VT2P	18,16*	WEXP10889	17	UW44	17
4255RR2	17,16	*RK433RR	18*,17*	WEXP10937	17		
4255STAXRIB	19,18,16	*RK433VT2P	19*,16*	*R9428-32	19*	Viking	
4255VT2PRIB	19	RK522SSTX	17,16,15			42-05	18
4340VT2PRIB	19,18*	*RK561DGV2P	19*	Terning Seeds		*42-92	19*,18*,17
4511RR2	17,16,15	*RK566SSTX	17*,16*	TS8150-3011A	17	44-98	19,18
4545RR	18	*RK579DGV2P	19*,18*	*TS8199GENVT2PRB	17*	46-96	18
4545VT2PRIB	19	RK587VT2P	19,18	TS8249GENVT2PRB	17	*48-08	19*,18*
4630VT2PRIB	19,18*,17*	*RK593VT2P	19*			*51-04GS	19*,18*
4777SXRIB	17,16	*RK595SSTX	17*,16*	Thunder Seed		*52-96	19*
4825SXRIB	19,18,17,16	RK596SSTX(RIB)	17,16,15	6085 VT2P	19	*53-12GS	19*,18*
4990VT2PRIB	19,18*	*RK604SSTX	18*	6090 3120	19	55-02	19,18
6030VT2RIB	18	*RK608DGV2P	18,17*,16*	*6094 VT2P	19*	*71-90GS	19*,18*
6163SXRIB	17	*RK621VT2P	19*	6098 VT2P	19	*84-05	19*
6333STAXRIB	18,16,15	*RK626SSTX	19*	6595 VT2P	19	*90-91UNT	17*,15
6338SXRIB	17,16	*RK629VT3P	17*,16*,15*	6791 VT2P	19	99-00	19
6420SXRIB	19,18,17	*RK642SSTX	18,17*	6888 VT2P	19	*O.33-95LF	17*
6444STAXRIB	17,16*,15*	*RK642VT2P	19*	6986 VT2P	19	*O.34-00LF	17*
6828VT2RIB	19	RK675DGV2P	17,16	6987 VT2P	19	O.35-09LF	17
X16321	17	RK680SSTX	17,16,15	6992 VT2P	19	*O.45-97GS	19*
X17315	19	*RK710DGV2P	19*,18*	*6993 VT2P	19*	*O.48-08P	19*
X17320	19	*RK717SSTX	19,18*,17*,16*	*6996 VT2P	19*	*O.51-04GS	17*,16*
X18550	19	*RK724RR	19*,17*,16*			*O.51-04P	19*
X19473	19	*RK737SSTX	19*,18*	Titan Pro		O.55-02UP	19
X19560	19	RK763VT2P	18	TP53-03-2P	17	O.58-85UP	18
X19652	19	*RK765VT2P	19*	TP71-98-2P	17	*O.68-06P	18*
		RK776SSTX	17,16,15	TP75-01SS	17	*O.69-01	19*
Project Seeds		RK779SSTX	19,18	TP77-06SS	17	O.69-01P	19
PS1885GT	19	RK792SSTX	17,16	TP78-98SS	17	*O.69-99	18,17*
PS1893GT	19	RK807SSTX	19			*O.71-90GS	17*
PS1898GT	19	*RK842SSTX	19*,18,17	Tracy Seeds		*O.71-90UP	18*
PS8823GTCBLL	18	*RK859DGV2P	18*	*T086-26A	18,17,16,15*	*O.74-10GS	19*,18,17
PS8922GT	18	RK877DGV2P	18	T089-29(3220)	19,18	*O.79-00	17*
PS90	18	*RK937VT2P	19*	T090-27	18	O.79-00P	18
PS96	18	*RK945DGV2P	19*	T093-26A	19,18,17,16,15	*O.82-95GS	19*,18*,17
PS98GT	18	*RK965VT2P	19*	T094-31	19	*O.82-95P	19*
				T095-29	19,18*	*O.84-95UP	19*,18*,17*
Renk		Spectrum		T096-25 (GT)	17	O.86-03UP	17
6-798VT2P	17,16	3617	18	*T102-14 (3000GTA)	17*,16*,15	*O.88-91UP	17*
7-637	17	*4046	18,17*	*T102-14(3011A)	19*,18	*O.98-98P	19*
7-726SSTX	18	*4130	17*,15*	T102-29 (3000GT)	18		
8-536VT2P	18	*4216	17*,15	T102-29 (3122EZ)	19	Wyffels	
8-593SSTX	18	4432	17	*T104-13 (3000GT)	19*,18*,17*,16,15	*W2506	18*
9S-104-3010	19	*4725	17*,15*	T104-14(Vip3122EZ)	18,15	W2618RIB	17
9S-108	19	*5452	17*,15	*T104-26 (3122EZ)	19*,18*,17*	W3078RIB	18,17
9S-109-3220	19	*6105	18,17*	T106-11	18	*W3488	18*
9S-113	19	*6244	17*	T107-25 (3220)	17	*W4196RIB	19*,18*,17*
RK264RR	19,18			*T108-26 (3111)	18,17,16*,15	W4358RIB	19
RK264VT2P	17	Steyer Seeds		T109-31	19	W4638	19
RK278VT2P	19	*9401	17*	T111-E2	18	*W5086	19*
RK287VT2P	19,18,17	*WEXP10137	17*			W5448RIB	17
RK312VT2P	19	*WEXP10537	17*	UW		W5518RIB	19,18
RK408RR	17	*WEXP10637	17*	*UW43	17*		



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