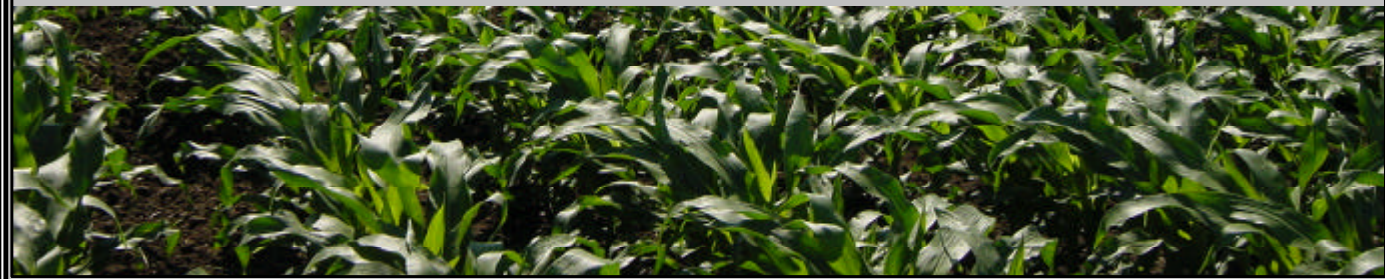


2003 Wisconsin Corn Hybrid Performance Trial Results

Grain and Silage



Department of Agronomy
College of Agricultural and Life Sciences
University of Wisconsin
Wisconsin Crop Improvement Association

2003 WISCONSIN CORN HYBRID PERFORMANCE TRIALS GRAIN AND SILAGE

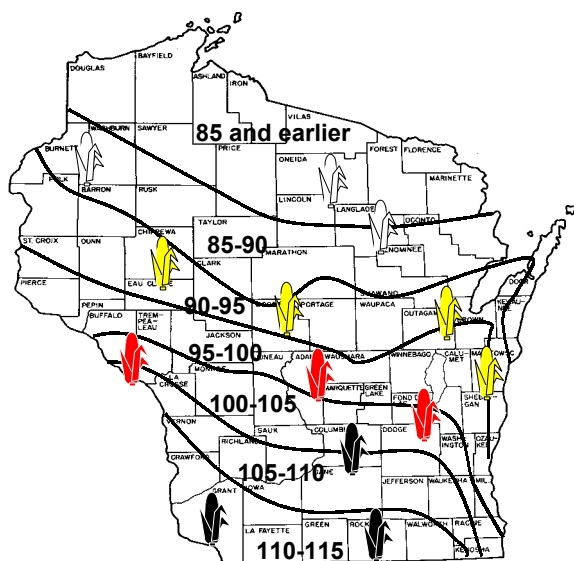
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The University of Wisconsin Extension-Madison and College of Agricultural and Life Sciences conduct a hybrid corn evaluation program, in cooperation with the Wisconsin Crop Improvement Association. The purpose of this program is to provide unbiased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

TESTING PROCEDURE

In 2003, grain and silage performance trials were planted at thirteen locations in four production zones. Both seed companies and university researchers submitted hybrids. Companies with hybrids included in the 2003 trials are listed in Table 1. 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 below.

Map: Wisconsin Relative Maturity Belts and test sites.



Grain			
	Southern Zone	Early Maturity Trial: 105-day or earlier	Table 4
	Arlington, Janesville, Lancaster	Late Maturity Trial: later than 105-day	Table 5
	South Central Zone	Early Maturity Trial: 100-day or earlier	Table 6
	Fond du Lac, Galesville, Hancock (irrigated)	Late Maturity Trial: later than 100-day	Table 7
	North Central Zone	Early Maturity Trial: 90-day or earlier	Table 8
	Chippewa Falls, Marshfield, Seymour, Valders	Late Maturity Trial: later than 90-day	Table 9
	Northern Zone		Table 10
Spooner (three sites), White Lake			
Silage			
	Southern Zone	Early Maturity Trial: 105-day or earlier	Table 11
	Arlington and Lancaster	Late Maturity Trial: later than 105-day	Table 12
	South Central Zone	Early Maturity Trial: 100-day or earlier	Table 13
	Fond du Lac and Galesville	Late Maturity Trial: later than 100-day	Table 14
	North Central Zone	Early Maturity Trial: 90-day or earlier	Table 15
	Chippewa Falls, Marshfield, Valders	Late Maturity Trial: later than 90-day	Table 16
	Northern Zone		Table 17
Spooner (two sites), Rhinelander			

CULTURAL PRACTICES

The seedbed at each location was prepared by either conventional or conservation tillage methods. Fertilizer was applied as indicated by soil tests. Herbicides were applied for weed control and supplemented with cultivation when necessary. Corn rootworm insecticide was applied when the previous crop was corn. Information for each location is summarized in Table 3.

PLANTING

A corn planter with cone units was used at all locations. Two-row plots were planted at all locations. Twenty-five foot long plots were over planted and hand thinned to achieve as near a uniform stand as possible. Each hybrid was grown in at least three separate plots (replicates) at each location to account for field variability.

GROWING CONDITIONS FOR 2003

Seasonal precipitation and temperature at the trial sites are shown in Table 2. The southwestern quadrant of Wisconsin was affected by a drought where little rain fell from mid-July through August. Grain and silage yields were quite variable. Both grain and silage yields were above normal in northeastern Wisconsin. Spring planting conditions were good until May 4 after which conditions were cooler and dryer than average. Plant emergence and stands were above average and the condition of the crop looked good through the end of July. Corn development was somewhat behind average due to cool early growing conditions, but development caught up and was average by mid-July due to hot, dry conditions. Dry, hot weather during pollination lowered yields in southwestern Wisconsin, especially for late-planted corn and longer-season relative maturity hybrids. Growing degree unit accumulation was slightly behind average throughout the entire growing season. Corn silage harvest began earlier than normal on sites affected by the drought. A killing frost did not occur until early-October. Plant standability was poor in drought affected trials. During the fall harvest season, yields were generally good to excellent, and moisture was low decreasing drying costs.

HARVESTING

Grain: 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.

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. Kernel milk percent, plot weight, and moisture content were measured, and yields were adjusted to tons dry matter / acre. A sub-sample was collected and analyzed using near infra-red spectroscopy.

PRESENTATION OF DATA

Yield results for individual location trials and for multi-location averages are listed in Tables 4 through 18. Within each trial, hybrids are ranked by moisture, averaged over all 2003 trials conducted in that zone. Yield and moisture data for both 2002 and 2003 are provided if the hybrid was entered previously in the 2002 trials. A two-year average for yield is calculated using location data for replications. A **hybrid index** at the back of this report lists relative maturity ratings, specialty traits and locations 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 moisture of all hybrids rated by the Minnesota Relative Maturity rating system are shown in each table. Minnesota Relative Maturity ratings are rounded to 5-day increments.

The Minnesota Relative Maturity rating system categorizes corn hybrids into relative maturity groups by comparing harvest grain moisture of a hybrid to the moisture of standard hybrids for each group (see *Minnesota Relative Maturity Rating of Corn Hybrids*, Agriculture Extension Service, University of Minnesota, Agronomy No. 27). In these Wisconsin results 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.

Maturity ratings can be found in Table 1 where company maturity ratings, Minnesota Relative Maturity ratings, and Wisconsin Grain and Silage Relative Maturity (GRM and SRM) rating are listed. The Wisconsin ratings are grain or silage moisture at harvest compared to company maturity ratings. Each hybrid in a trial is rated and averaged over all trials in a zone.

PERFORMANCE INDEX

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

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

$$PI = [(Yield \times 0.50) + (Dry \ matter \times 0.35) + (Upright \ stalks \times 0.15)] / 100$$

SILAGE QUALITY

Corn silage quality was analyzed using near infrared spectroscopy equations derived from previous work of Drs. Jim Coors and Joe Lauer (UW-Madison). 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.

MILK2000 silage performance indices, milk per ton and milk per acre, are calculated using an adaptation by Eric Schwab and Randy Shaver (UW-Madison Dairy Science Department) of the MILK95 model (Undersander, Howard and

Shaver; Journal Production Agriculture 6:231-235). In **MILK2000**, the energy content of corn silage was estimated using a modification of a published summative energy equation (Weiss and co-workers, 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. A regression equation developed from literature data was used to predict total tract starch digestibility from the samples whole-plant dry matter content. The samples 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 the samples NDF and NDFD content assuming a 1350 lb. cow consuming a 30% NDF diet. Using National Research Council (NRC, 2000) energy requirements, the intake of energy from corn silage was converted to expected milk per ton. Because the cows maintenance energy requirements were partitioned against the total diet in **MILK2000** rather than against only corn silage as was done in MILK95, there was a base increase in our new estimate of milk per ton which was of equal value across all samples that did not influence ranking. Milk per acre was calculated using milk per ton and dry matter yield per acre estimates.

LEAST SIGNIFICANT DIFFERENCE

Variations in yield and other characteristics occur because of variations in soil and other 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 LSD (least significant difference) value at the bottom of the tables to determine true differences.

Least significant differences (LSD's) at the 10% level of probability are shown. Where the difference between two selected hybrids within a column is equal to or greater than the LSD value at the bottom of the column, you can be sure in nine out of ten chances 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 THESE RESULTS TO SELECT TOP-PERFORMING HYBRIDS

The results can be used to provide producers with an *independent, objective* evaluation of performance of unfamiliar hybrids, promoted by seed company sales representatives, compared to 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 2% range in moisture.
4. Make a list of 5 to 10 hybrids with highest 2003 Performance Index within each maturity group within a trial.
5. Evaluate **consistency of performance** of the hybrids on your list over years and other zones.
 - a) Scan 2002 results. **Be wary** of any hybrids on your list that had a 2002 Performance Index of 100 or lower. Choose two or three of the remaining hybrids that have relatively high Performance Indexes for **both** 2002 and 2003.
 - 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 4 and 5, are also entered in the South Central Zone Trials, Tables 6 and 7).
 - c) **Be wary** of any hybrids with a Performance Index of 100 or lower for 2002 or 2003 in any other zones.

6. Repeat this procedure with about three maturity groups to select top-performing hybrids with a range in maturity, to spread weather risks and harvest time.
7. Observe 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. You might 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 2002 and 2003 over a wide range of locations and climatic conditions.

You are taking a tremendous gamble if you make hybrid selection decisions based on 2003 yield comparisons in only one or two local test plots.

OBTAINING DATA ELECTRONICALLY

This report is also available on the internet at <http://corn.agronomy.wisc.edu>. Hybrid performance for the last 10 years can be summarized using **SELECT** at the above internet address. This book can be downloaded over the internet in Microsoft Excel and Acrobat PDF formats.

Table 1. Companies and Hybrids included in 2003 trials

Brand	Company	Address	City	State	Zip
Ag+ Seeds	Elk Mound Seed Company	308 Railroad Ave	Elk Mound	WI	54739
AgriGold	AgriGold Hybrids	R.R. 1 Box 203	St. Francisville	IL	62460
Agripro	Garst Seed Company	5366 Lee Lane	Coon Valley	WI	54623
Asgrow	Monsanto Co.	3100 Sycamore Road	Dekalb	IL	60115
Badgerland	Badgerland Seeds	N7416 Co Rd I	Juneau	WI	53039
Baldrige Hybrids	Baldrige Hybrids	P.O. Box 99	Cherry Fork	OH	45618
Bio Gene	Bio Gene Seeds	5491 Tri-County Hwy	Sardinia	OH	45171
Brown	Brown Seed, Inc.	N1279 530th Street, P.O. Box 7	Bay City	WI	54723
Brunner	Brunner Seed Farm	W3850 U.S. Hwy 10	Durand	WI	54736
Carharts Blue Top	Carhart's Blue Top Seed, Inc.	N14743 County Road M	Galesville	WI	54630
Cornelius	Cornelius Seed	14760 317th Ave	Bellevue	IA	52031
Croplan Genetics	Croplan Genetics	180 Lynne Trail	Oregon	WI	53575
Crows	Crows Hybrids	P.O. Box 157	Kentland	IN	47951
Dahlman	Dahlman Seed Co. LLP	73504 200th Street	Dassel	MN	55325
Dairyland	Dairyland Seed Co, Inc.	P.O. Box 958	West Bend	WI	53095
Dekalb	Monsanto Co.	3100 Sycamore Road	Dekalb	IL	60115
Dynagro	UAP Great Lakes	221 W. Lake Lansing Rd 102	East Lansing	MI	48823
Foundation Direct	Foundation Direct Seeds	634 13th Ave N	Onalaska	WI	54650
Garst	Garst Seed Company	5366 Lee Lane	Coon Valley	WI	54623
Gold Country	Gold Country Seed, Inc.	16506 Hwy 15 N. P.O. Box 0604	Hutchinson	MN	55350
Golden Harvest	Golden Harvest	27525 135th Ave. North	Cordova	IL	61242
Great Lakes	Great Lakes Hybrids	9915 W. M-21 P.O. Box 637	Ovid	MI	48866
Growmark	Growmark, Inc.	1701 Towanda Ave	Bloomington	IL	61701
High Cycle	Trelay Seeds	11623 Hwy 80	Livingston	WI	53554
Hughes	Hughes Hybrids	206 North Hughes Rd	Woodstock	IL	60098
Hyland Seeds	Hyland Seeds	2 Hyland Drive, P.O. Box 130	Blenheim	Ontario	Canada
Jeske	Jeske Seed Farm	W8598 Cty Rd S	Hortonville	WI	54944
Johnson Seeds	Johnson Seeds, Inc.	72700 185th Street	Dassel	MN	55325
Jung	Jung Seed Genetics, Inc.	341 South High Street	Randolph	WI	53956
Kaltenberg	Kaltenberg Seeds	5506 State Hwy 19	Waunakee	WI	53597
Kruger	Kruger Seed Company	33938 160th Street Box A	Dike	IA	50624
Kussmaul	Kussmaul Seed Company	9020 Hwy 18	Mt. Hope	WI	53816
La Crosse Forage	La Crosse Forage	P.O. Box 995	La Crosse	WI	54602
Lemke	Lemke Seed Farms, Inc.	10220 North Granville	Mequon	WI	53097
LG Seeds	LG Seeds	22827 Shissler Rd	Elmwood	IL	61529
Midwest	Midwest Seed Genetics	P.O. Box 518	Carroll	IA	51401
Mycogen	Mycogen Seeds	9330 Zionsville Road	Indianapolis	IN	46268
NK Brand	Syngenta Seeds, Inc.	933 Fly Wheel Circle	DeForest	WI	53532
North-Gro	North-Gro Seeds, Inc.	613 North Randolph Street	Cuba City	WI	53807
O'Brien	O'Brien Farms, Inc.	552 Glenway Road	Brooklyn	WI	53521
Ottillie	Ottillie RO Seed	1462 Sanford Ave.	Marshalltown	IA	50158
Pilgrim Seed	Elk Mound Seed Company	308 Railroad Ave	Elk Mound	WI	54739
Pioneer	Pioneer Hi-Bred Int'l.	99 Navaho Ave Ste 101-A	Mankato	MN	56001
Ragt Semences	Ragt Semences	Site de Bourran, Ave. St. Pierra BP 3357	12 033 Rodez Cedex 9		France
Renk	Renk Seed Company	6800 Wilburn Road	Sun Prairie	WI	53590
Spangler	Spangler Seedtech, Inc.	803 West Racine Street	Jefferson	WI	53549
Trelay	Trelay Seeds	11623 Hwy 80	Livingston	WI	53554
Wisconsin	UW Agronomy	1575 Linden Drive	Madison	WI	53706
Wolf River Valley	Wolf River Valley Seeds	N2976 Hwy M	White Lake	WI	54491
Wyffels	Wyffels Hybrids	13344 U.S. Hwy 6	Genesco	IL	61254

Table 1. (Continued) Companies and Hybrids included in 2003 trials.

Brand Hybrid	Traits	Relative Maturity				Tables	Brand Hybrid	Traits	Relative Maturity				Tables
		Co.	MN	GRM	SRM				Co.	MN	GRM	SRM	
Ag+ Seeds 5492Bt	Bt	90		90		8	Cornelius C430YG	Bt	104	103	103		4,11
Ag+ Seeds 6290Bt	Bt	90		86		8	Cornelius C443YG	Bt	105	103			4
Ag+ Seeds 6387RR	RR	86		86		8	Cornelius C572		108	107			5
AgriGold A6235BtRR	Bt,RR	100		99		6	Cornelius C590YG	Bt	110	109	108		5,12
AgriGold A6305Bt	Bt	103		103		4,7	Cornelius C599		109	109			5
AgriGold A6333Bt	Bt	106		107		5,7	Cornelius C605YG	Bt	110	110	110		5,12
AgriGold A6375		104		104		4	Cornelius C635		111	108	109		5,12
AgriGold A6395		106		108		5	Cornelius C637YG	Bt	111	109			5
AgriGold XA5234		105		104		4,7	Cornelius C707RRYG	Bt,RR	113	111	110		5,12
AgriGold XA6205Bt	Bt	96		97		6	Croplan Genetics 294Bt	Bt	90	90	88	89	8,15
AgriGold XA6302		99		97		6	Croplan Genetics 314Bt	Bt	92	90	94		9
AgriPro 8880YG1	Bt	95	96	95		6,9	Croplan Genetics 344Bt	Bt	93	95	95		6,9
Asgrow RX499YG	Bt	102	102	102	105	4,7,14	Croplan Genetics 354Bt	Bt	95	95	96		6,9
Asgrow RX702YG	Bt	110	110	111		5	Croplan Genetics 364Bt	Bt	96	95	96		6,9
Badgerland BL509Y	Bt	100		97		6	Croplan Genetics 401Bt	Bt	100	100	102		4
Baldridge Hybrids BH515		105			107	14	Croplan Genetics 501RRBt	Bt,RR	103	105	103		4
Baldridge Hybrids BH611A		110			111	12	Croplan Genetics 503Bt	Bt	104	105	103		4
Bio Gene BG1111		110		109		5	Croplan Genetics 601Bt	Bt	108	110			5
Bio Gene BG940		94		94		9	Croplan Genetics 691BtLL	Bt,LL	112	112	110		5
Bio Gene BG991		99		97		6	Croplan Genetics DS107RR	RR	107	105		105	14,16
Bio Gene BT1071	Bt	107	107	108		5	Crows 1703B	Bt	95	95	96		6
Brown 1811YGCB	Bt	83	83	87		8	Crows 2192B	Bt	102	102	102	102	4,7,11
Brown 3000YGCB	Bt	90	90	89		8	Crows 3520B	Bt	103	106	104	105	7,14
Brown 3020YGCB	Bt	94	94	94		9	Crows 438B	Bt	108	110	108		5
Brown 4250YGCB	Bt	94	95	92		9,10	Crows 4911B	Bt	110		109	109	5,12
Brown 5020		100		100		6	Dahlman D4301		86	86	86		8
Brown 5130YGCB	Bt	98		100		6	Dahlman D4501Bt	Bt	90	90	89		8
Brown 5345YGCB	Bt	102	104	103		4,7	Dahlman D4515	Bt	90	92	89		8
Brown 5636		98	102	102		4,6	Dahlman D4747	Bt	94		94		9
Brown 6079		100	105	102		4	Dahlman D4801		96	96	94		9
Brown 6220		100	104	104		4	Dahlman D4815	Bt	95	95	94		9
Brown 6895YGCB	Bt	106	108	109		5	Dahlman D5102Bt	Bt	102	102	99		7
Brown 7044		110	112	109		5	Dahlman R4215	RR	84		84		10
Brown X7171YGCB	Bt	111		110		5	Dahlman R45S15	Bt,RR	90		89		8
Brunner B2495		87	87	86		8	Dahlman R4815	RR	95		94		9
Brunner EXP104		104		103		7	Dairyland DST10427		104			98	16
Brunner EXP110		110		107		5	Dairyland HiDF3300		99	99		97	16
Brunner EXP96		96		94		9	Dairyland HiDF3600		102	102		99	16
Brunner S2055RR	RR	82	82	86		10	Dairyland HiDF4200		108			98	16
Brunner S2823RRBt	Bt,RR	83		86		10	Dairyland Stealth 1089Bt	Bt	90	89	87		10
Brunner S2852RRBt	Bt,RR	85	85	87		8,10	Dairyland Stealth 1280		83	85	86	87	8,17
Brunner S3630RR	RR	92	92	93		9	Dairyland Stealth 1287RR	RR	87			89	17
Brunner S3903RRBt	Bt,RR	90		89		8	Dairyland Stealth 1297		97	95		91	17
Brunner S4993		98		97		6	Dairyland Stealth 1416		113			111	12
Brunner S5202		104	104	105		7	Dairyland Stealth 1496		96	98	94		9
Brunner S6408Bt	Bt	110	110		109	12	Dairyland Stealth 1497		97	97	95		6,9
Carharts Blue Top CR1857RB	Bt,RR	87		89	89	8,10,15,17	Dairyland Stealth 1502		102	100	102		7
Carharts Blue Top CR840RB	Bt,RR	85		86		8,10	Dairyland Stealth 1503		103	103	103		7
Carharts Blue Top CR8500RB	Bt,RR	89	90	87	89	8,10,15,17	Dairyland Stealth 1507Bt	Bt	107	106	107		5,7
Carharts Blue Top CR85RR	RR	85	85	85	89	8,10,15,17	Dairyland Stealth 1592		92	91	92		9
Carharts Blue Top CX1057Bt	Bt	105		103		4,7	Dairyland Stealth 1598		98	98	96		6
Carharts Blue Top CX1080Bt	Bt	110		109	108	5,7,12,14	Dairyland Stealth 1602		102	102	102		7
Carharts Blue Top CX1956Bt	Bt	95		95	97	6,9,13,16	Dairyland Stealth 1605		105	105	105		4,7
Carharts Blue Top CX8500A		85		85	90	10,17	Dairyland Stealth 1606		106	107	105	109	5,7,12
Cornelius C417YG	Bt	103		103		4	Dairyland Stealth 1607		107	107		110	12
							Dairyland Stealth 1608		108		109		5
							Dairyland Stealth 1611		111	111	108		5
							Dairyland Stealth 1685		85		85		8,10
							Dairyland Stealth 1692		92		93		9
							Dairyland Stealth 5104	Bt	104	104	104		4,7
							Dairyland Stealth 5194	Bt	94	94	94		9

Table 1. (Continued) Companies and Hybrids included in 2003 trials.

Brand Hybrid	Traits	Relative Maturity				Tables	Brand Hybrid	Traits	Relative Maturity				Tables
		Co.	MN	GRM	SRM				Co.	MN	GRM	SRM	
Dairyland Stealth 5497	Bt	98	97	95		6,9	Golden Harvest H7900		103	105	103	105	7,14
Dairyland Stealth 6611	RR	111		108		5	Golden Harvest H8312		106	106	106		5,7
Dairyland Stealth 7191	Bt,RR	91		89		9,10	Golden Harvest H8350Bt	Bt	106	104		105	14
Dekalb DKC3501(RR)	RR	85	85	85		8	Golden Harvest H8351		106	107	107		5
Dekalb DKC3947(RR)	RR	89	89	91	100	8	Golden Harvest H8618Bt	Bt	108		108		5
Dekalb DKC3948(RRYGCB)	Bt,RR	89	89	90	90	8,15	Golden Harvest H8662Bt	Bt	109			109	12
Dekalb DKC4295(RRYGCB)	Bt,RR	92	92	95	98	6,9,16	Golden Harvest H8906		111	110	108		5
Dekalb DKC4442(YGCB)	Bt	94	94	93		9	Golden Harvest H9148Bt	Bt	113		110		5
Dekalb DKC4446(RRYGCB)	Bt,RR	94	94	95	97	6,9,16	Golden Harvest H9247Bt	Bt	113			111	12
Dekalb DKC4628(RR)	RR	96	96	96	104	6	Great Lakes 4256Bt	Bt	92		94		9
Dekalb DKC4710(RRYGCB)	Bt,RR	97	97	95		6,9	Great Lakes 4623Bt	Bt	96	96	97		6
Dekalb DKC4884(RRYGCB)	Bt,RR	98	98	96		6,9	Great Lakes 5300Bt	Bt	103	103	103		4
Dekalb DKC5018(YGCB)	Bt	100	100	100	99	4,6,13,16	Great Lakes 5377		103	103	104		4,7
Dekalb DKC5245(YGCB)	Bt	102	102	101		4,7	Great Lakes 5722		107		106		5
Dekalb DKC5334(RRYGCB)	Bt,RR	103	103	103	100	4,7,14,16	Great Lakes 5961Bt	Bt	109	110	109		5
Dekalb DKC5784(YGCB)	Bt	107	107	109		5	Great Lakes Quad5Bt	Bt	108	108	109		5
Dekalb DKC5878(YGCB)	Bt	108	108	107		5	Growmark FS3584		95		96		6
Dekalb DKC6019(RRYGCB)	Bt,RR	110	110	108	104	5,14	Growmark FS3724		97		96		6
Dynagro 51N39		88	85	85	88	10,17	Growmark FS4042Bt	Bt	100	100	98	100	6,13
Dynagro 53F09	Bt	94	95	96		6,9	Growmark FS4322		102	102		105	14
Dynagro 53F49	Bt	93	92	94		6,9	Growmark FS4453		103	103	103		4
Dynagro 53P30	Bt,RR	92	95	95		9	Growmark FS4882		104	104	103		4
Dynagro 55N37		103	102	104		4,7	Growmark FS5424		107	107	107		5
Dynagro 55P63	Bt,RR	100	99	101		4,6	Growmark FS5634Bt	Bt	109		110		5
Dynagro 56N42		109		109		5	Growmark FS6533Bt	Bt	111			106	14
Dynagro CX03502		101		103		7	High Cycle 7242Bt	Bt	90	90	89		8
Dynagro DG5288LFY	Leafy	100			99	13	High Cycle 7301Bt	Bt	92	92	94		9
Dynagro DG5295Bt	Bt	100	102	100		6,9	High Cycle 7495Rb	Bt,RR	92	95	93		9
Dynagro DG5440		106		105	105	5,7,14	High Cycle 7525Bt	Bt	101	100	101		7
Dynagro DG5467		109		108		5	High Cycle 7560Bt	Bt	100	100	99		6
Foundation Direct 8670		101		104		7	High Cycle 7592Rb	Bt,RR	102	101	103		7
Foundation Direct X103		95		96		6	High Cycle 7601Bt	Bt	103	103	104		7
Garst 24X		101	108		106	14	High Cycle 7644Bt	Bt	105	105		106	14
Garst 8510YG1RR	Bt,RR	106	110		106	14	High Cycle 7698Rb	Bt,RR	107	107	106	105	5,7,14
Garst 8530Bt	Bt	106	111		109	12	High Cycle 7748Bt	Bt	109	109	110	109	5,12,14
Garst 8552YG1	Bt	108	108	109		5	High Cycle 7796Rb	Bt,RR	112	113	109	108	5,12
Garst 8556YG1	Bt	109		110		5	High Cycle 7807Bt	Bt	111	112	110	110	5,12
Garst 8579RR	RR	101			104	14	Hughes 2970	Bt	100		98		6
Garst 8590IT	IMI	100	106		102	13	Hughes 3030		101		102		7
Garst 8647		105	105	103		4,7	Hughes 4133	Bt	106		107		5
Garst 8779		94	100		98	16	Hughes 4762	Bt	104		103		4
Garst 8787YG1	Bt	102	102	103		7	Hughes 5600	Bt	108		109		5
Garst 8865		90	95		88	15	Hughes 5743	Bt	108		109		5
Garst 8959YG1	Bt	86	86	86	90	8,15	Hyland Seeds HLS034		88			89	15,17
Garst ND922YG1	Bt	90		91		6,8	Hyland Seeds HLS041		90	98		90	15,17
Garst / Agripro 7850		110			110	12	Hyland Seeds HLS058		102	103		105	11,14
Garst / Agripro 9476Bt	Bt	108		108		5	Hyland Seeds HLS067		103	105		104	11,14
Gold Country 8302RR	RR	83		86		8	Hyland Seeds HLS072		108	108		109	12
Gold Country 9401CB	Bt	94	95	94		9	Jeske SX224		95		95		9
Golden Harvest H2387		100	100		97	16	Johnson Seeds 2111RR	RR	85	86	86		8
Golden Harvest H6155RR	RR	84		84		10	Johnson Seeds 2151		95	95	95		6,9
Golden Harvest H6355		87			86	17	Johnson Seeds 2194BtRR	Bt,RR	91	94	93		9
Golden Harvest H6395		87		85		10	Johnson Seeds 2238RR	RR	95	95	94		9
Golden Harvest H6675		92	91		91	17	Johnson Seeds 2241		90	90	87		8
Golden Harvest H6775Bt	Bt	93	93	94	97	9,16	Johnson Seeds 2247BtRR	Bt,RR	100	101	100		6
Golden Harvest H7108		96	96	98	97	6,16	Johnson Seeds 3565		95		95		9
Golden Harvest H7140Bt	Bt	96	97	98	98	6,16	Johnson Seeds 3750		90	90	87		8
Golden Harvest H7287		98	99		97	16	Johnson Seeds 4240		85	85	85		8
Golden Harvest H7470Bt	Bt	101	99	103		7							

Table 1. (Continued) Companies and Hybrids included in 2003 trials.

Brand Hybrid	Traits	Relative Maturity				Tables	Brand Hybrid	Traits	Relative Maturity				Tables
		Co.	MN	GRM	SRM				Co.	MN	GRM	SRM	
NK Brand N35B8	Bt,LL	96		94		9	Ragt Semences MX128		83			86	17
NK Brand N45A6	Bt,LL	101	101	101		7	Ragt Semences MX151		106		109		5
NK Brand N45T5		101	101		97	16	Ragt Semences MX152		87		89		8
NK Brand N48V8	Bt,LL	98	107	104	102	11,13,16	Ragt Semences MX155		89		89		8
NK Brand N50P5	Bt,LL	104	104	102		4,7	Ragt Semences MX156		91		94		9
NK Brand N51Z7	Bt,LL	104	104	103		7	Ragt Semences MX227		83		85		10
NK Brand N59Q9		106	106		105	14	Ragt Semences PG002		82		87		10
NK Brand N60B6	Bt,LL	107	107	109		5							
NK Brand N65Y3	Bt,LL	109	109	110	108	5,12	Renk RK232		85	85	84		10
NK Brand NX4942		100			103	11,13	Renk RK232YGCB	Bt	87	90		90	17
							Renk RK240		82		85		10
North Gro 1541RR	RR	80		85		10	Renk RK288		85		86		8,10
North Gro 4460RR	RR	94		94		9	Renk RK438YGCB	Bt	92	92	92		6,9,10
North Gro 4674Y	Bt	95		93		9	Renk RK488YGCB	Bt	96	97	96	95	6,9,16,17
North Gro 5530Y	Bt	100		100		6	Renk RK556		96	97	97	98	6,16
North Gro 5909		104		104		4	Renk RK622		99	100	96	99	6,9,13
North Gro 6800		109		108		5	Renk RK633YGCB	Bt	100		101		4,6
North Gro 7071Y	Bt	110		109		5	Renk RK636YGCB	Bt	102	103	102	101	4,7,14,16
							Renk RK668		103	105		100	14,16
OBrien OB1033RR	RR	103		105		7	Renk RK700YGCB	Bt	103	105	104		4,7
OBrien OB1073Bt	Bt	106		108		5	Renk RK772YGCB	Bt	105	108	102	103	4,7,11,14
OBrien OB1113Bt	Bt	111		110	109	5,12	Renk RK789YGCB	Bt	107		109		5
OBrien OB954Bt	Bt	95		99		4,6	Renk RK837		110	112	109		5
OBrien OBX1064RRBt	Bt,RR	106		105	105	7,14	Renk RK845RRYGCB	Bt,RR	108	109		108	12
Ottilie 4102	Bt	101		103		4	Spangler 154G	Bt	84		85		8
Ottilie 4594	Bt	105		105		4	Spangler 2777RG	Bt,RR	89		87		8
Ottilie 4777	Bt	107		108		5	Spangler 324G	Bt	92		94		6,9
Ottilie 5006	Bt	110		108		5	Spangler 4203G	Bt	100		100		6
Ottilie 5267	Bt	112		110		5	Spangler 5003G	Bt	103		104		4,7
							Spangler 5300G	Bt	105		103		4,7
Pilgrim Seed 8601		86		87		8	Spangler 674G	Bt	110		109		5
Pilgrim Seed 9601		96		95		6	Spangler 7558G	Bt	112		110	109	5,12
Pilgrim Seed Pilgrim Plus		100			99	13	Spangler LFT31	Leafy	97		97	98	16
							Spangler LFT50	Leafy	108			106	14
Pioneer 33A14	Bt	113	113	110		5	Spangler LFT61	Leafy	112			110	12
Pioneer 33J57	Bt	114	114		109	12,14							
Pioneer 34B23		109	108	109	109	5,12	Trelay 6400		103	106	103		7
Pioneer 34M93	Bt	110	110	109	107	5,12,14	Trelay 7012		105	105	104	104	4,7,14
Pioneer 34M94		109	109	108		5	Trelay 9012		110	112		109	12
Pioneer 34M95	Bt	110	109		106	12							
Pioneer 34N42	Bt	111	111	111		5	Wisconsin JC11		106			110	12
Pioneer 35D45		104	104		102	14,16	Wisconsin JC12		106			111	12
Pioneer 35R57		104	104	105	110	4	Wisconsin JC13		101			106	14
Pioneer 35R58	Bt	105	105		102	14	Wisconsin JC14		101			106	14
Pioneer 35Y55	Bt	106	106	106		5,7							
Pioneer 36B08		103	102	102		7	Wolf River Valley 2490	Bt	90		89		8
Pioneer 36N71	Bt	102	102	103	98	7,16	Wolf River Valley 2493RR	Bt,RR	93		93		9
Pioneer 37D03		97	97		94	16,17	Wolf River Valley 2496	Bt	96		94		9
Pioneer 37F16	Bt	98	98	96	93	17							
Pioneer 37H26	LL	99	97	102		6	Wyffels W3813	Bt	105		103		4
Pioneer 37J99	IMI	97	97	93		9	Wyffels W4823	Bt	106		106		5
Pioneer 37R71	Bt	97	99	97	94	6,9,16,17	Wyffels W5223	Bt	107		108		5
Pioneer 38A25	Bt	97	96	97	89	6,9,17	Wyffels W5460	Bt	107		109		5
Pioneer 38P04	Bt	95	95	91		9,10	Wyffels W5483	Bt	109		110		5
Pioneer 38T28	Bt	96	96		93	16	Wyffels W5541	Bt	109		110		5
Pioneer 39D82	Bt	87	87	86		8,10	Wyffels W6578	Bt	111		110		5
							Wyffels W7273	Bt	110		109		5
Ragt Semences MX027		81			86	17							

Table 2. 2003 Temperature and Precipitation Summary

Location		May		June		July		August		September	
		Average	Departure	Average	Departure	Average	Departure	Average	Departure	Average	Departure
	Precipitation	Total	Departure	Total	Departure	Total	Departure	Total	Departure	Total	Departure
Arlington	Temperature	55.6	-1.5	66.0	-0.6	71.1	0.6	71.6	3.1	60.9	0.4
	Precipitation	3.8	0.4	3.3	-0.7	3.3	-0.6	1.8	-2.5	4.0	0.3
Chippewa Falls (Eau Claire)	Temperature	56.2	-1.8	65.9	-0.9	70.8	-0.6	72.5	3.5	60.2	0.8
	Precipitation	4.5	0.8	3.4	-0.9	3.5	-0.4	0.3	-4.4	2.1	-1.6
Fond du Lac	Temperature	54.8	-3.1	63.9	-3.2	69.5	-2.3	71.0	1.5	60.9	-0.4
	Precipitation	3.5	0.5	2.7	-0.8	4.2	0.7	1.2	-3.0	3.3	-0.2
Galesville (Trempealeau Dam #6)	Temperature	58.2	-1.6	66.8	-1.8	72.2	-0.6	74.2	3.9	63.0	1.3
	Precipitation	4.5	0.8	2.3	-1.5	2.0	-2.3	1.9	-2.6	2.3	-1.5
Hancock*	Temperature	55.0	-1.5	65.2	-0.5	69.7	0.1	71.5	4.2	61.4	2.4
	Precipitation	5.3	1.9	3.4	-0.4	2.3	-1.9	0.7	-3.6	2.9	-0.7
	Irrigation	1.5		3.0		6.3		6.8		2.0	
Janesville (Beloit)	Temperature	56.3	-2.5	65.6	-3.0	71.9	-0.5	73.9	3.8	63.5	1.2
	Precipitation	8.2	4.8	2.5	-2.1	5.1	1.3	1.1	-3.2	2.6	-1.1
Lancaster	Temperature	55.8	-1.9	65.1	-1.8	70.6	-0.5	72.9	4.0	61.4	0.9
	Precipitation	6.3	2.6	3.2	-1.6	3.5	-0.6	0.7	-3.9	2.9	-0.3
Marshfield	Temperature	54.7	-1.1	63.6	-1.7	68.7	-1.1	70.9	3.7	60.3	2.5
	Precipitation	3.9	0.2	2.8	-1.3	1.5	-2.5	0.9	-3.4	2.2	-1.8
Rhinelanders*	Temperature	50.2	-3.8	60.0	-2.5	65.3	-1.9	66.8	1.7	56.5	0.6
	Precipitation	2.0	-1.4	1.3	-2.7	4.0	-0.1	0.8	-3.6	1.9	-2.3
	Irrigation	0.0		0.3		2.7		1.8		0.4	
Seymour (Green Bay)	Temperature	53.1	-3.3	63.2	-2.2	67.9	-2.0	69.1	1.6	60.7	1.9
	Precipitation	3.2	0.4	3.7	0.3	4.3	0.8	4.2	0.4	3.3	0.2
Spooner*	Temperature	55.6	-1.5	64.7	-0.4	68.9	-0.5	71.6	4.4	61.0	2.6
	Precipitation	4.7	1.6	5.4	1.4	2.9	-1.3	1.6	-3.1	3.3	-0.4
	Irrigation	0.0		1.4		2.4		2.7		0.9	
Valders (Manitowoc)	Temperature	49.6	-5.0	61.4	-2.7	68.8	-1.1	70.5	2.0	60.8	0.1
	Precipitation	4.2	1.4	3.2	-0.1	2.4	-1.1	3.4	-0.4	2.2	-0.9
White Lake (Antigo)	Temperature	52.7	-1.2	62.3	-0.3	66.9	-0.1	67.9	3.0	58.0	2.6
	Precipitation	3.8	0.8	3.4	-0.3	2.2	-1.8	2.4	-1.8	4.2	0.2

*Irrigation applied at Hancock, Rhinelanders and Spooner - Irrigated Sand Trials.

Table 3. Individual Trial Information - 2003 Trials

Location	Cooperators	Soil Type	Previous Crop	Row Width (in)	Planting Date	Harvest Dates	Ave. Final Stand (plants/A)	Tillage Operations	--Soil Test--			actual (lb/a)	--Nitrogen Fertilizer--		Weed Control	Insecticides
									pH	P	K		form	time		
Arlington	S.Kraak J. Quimby	Plano Silt Loam	Soybean	30	3-May	G:16-Oct S: 11-Sept	G: 27900 S: 31400	Chisel Field Cultivator Soil Finisher	6.7	70	164	150 9	46-0-0 6-24-24	preplant planting	Harness 2.5 pt/A Hornet 3.0 oz/A Callisto 3.0 oz/A cultivate	None
Chippewa Falls	J. Clark	Sattre Silt Loam	Soybean	30	29-Apr	G: 24-Sept S: 3-Sept	G: 29000 S: 31500	Field Cultivator	6.8	26	88	150 9	28-0-0 6-24-24	preplant planting	Harness 1.6 pt/A Hornet 3.0 oz/A cultivate	None
Fond du Lac	E. Montsma M. Rankin	Virgil Silt Loam	Soybean	30	3-May	G: 22-Oct S: 16-Sept	G: 26800 S: 30400	Field Cultivator	6.7	31	77	9 120	6-24-24 28-0-0	planting preemerge	Basis 0.33 oz/A Lumax 5.0 pt/A cultivate	
Galesville	K. Congdon J. Zander	Downs Silt Loam	Soybean	30	28-Apr	G: 20-Oct S: 10-Sept	G: 28100 S: 31800	V-ripper Field Cultivator	6.2	36	136	160 9	46-0-0 6-24-24	preplant planting	Dual II 2.25 pt/A Hornet 3.0 oz/A Clarity 4.0 oz/A cultivate	None
Hancock Irrigated	J. Breuer C. Kostichka	Plainfield Sand	Soybean	30	24-Apr	G: 15-Oct	G: 27700	Moldboard Plow Disk	7.1	109	93	9 204	6-24-24 34-0-0	planting post	Aatrex 4L 0.75 lb/A Lasso 2.0 qt/A Callisto 3.0 oz/A	None
Janesville	B. Jaynes J. Stute	Plano Silt Loam	Soybean	30	25-Apr	G: 21-Oct	G: 28700	Chisel Plow Field Cultivator	6.9	59	174	100 9	28-0-0 6-24-24	preplant planting	Dual II 1.8 pt/A Hornet 4.5 oz/A Callisto 3.0 oz/A Steadfast 0.75 oz/A cultivate	None
Lancaster	T. Wood	Fayette Silt Loam	G: Soybean S: Soybean	30 30	28-Apr 28-Apr	G: 7-Oct S: 9-Sept	G: 27600 S: 29800	Soil Finisher	G: 7.1	48	138	140 9	46-0-0 6-24-24	preplant planting	Aatrex 4L 1.0 qt/A Harness 1.0 qt/A Accent 0.33 oz/A Northstar 4.0 oz/A cultivate	None
Marshfield	M. Bertram T. Drendel	Withee Silt Loam	Alfalfa	30	1-May	G: 8-Oct S: 8-Sept	G: 26700 S: 28500	Chisel Plow Disk Field Cultivator	6.2	70	190	9 45 13000 gal/A	6-24-24 28-0-0 Manure	planting post preplant	Harness 1.8 pt/A Hornet 2.4 oz/A Atrazine 4L 1.1 qt/A Permit 1.07 oz/A cultivate	Force 4.4 lbs/A
Rhineland	B. Bowen S. Woodford	Vilas Loamy Sand	Corn	30	20-May	S: 22-Sept	S: 32000	Chisel Plow Disk	5.8	170	125	57 110	19-19-19 34-0-0	planting post	Harness Extra 1.75 qt/A	
Seymour	R. Vanden Heuvel Z. Miller	Clay Loam	Corn	30	2-May	G: 24-Oct	G: 28500	Chisel Plow Soil Finisher	7.1	22	119	9 9000 gal/A	6-24-24 Manure	planting post	Accent 0.67 oz/A Atrazine 0.5 lb/A Callisto 3.0 oz/A cultivate	Force 4.4 lbs/A
Spooner Dryland	P. Holman Y. Berger	Cress Sandy Loam	Alfalfa	30	8-May	G: 23-Sept	G: 30400	Moldboard Plow Disk	6.5	100	121	22 161	13-16-18-8s 46-0-0	planting post	Dual II Mag 1.0 pt/A Hornet 4.0 oz/A	None
Spooner Irrigated	P. Holman Y. Berger	Cress Sandy Loam	Alfalfa	30	8-May	G: 21-Oct S: 15-Sept	G: 30400 S: 35600	Moldboard Plow Disk	6.5	100	121	22 161	13-16-18-8s 46-0-0	planting post	Dual II Mag 1.0 pt/A Hornet 4.0 oz/A	None
Spooner Silt Loam	P. Holman Y. Berger	Miami Silt Loam	Soybean	30	16-May	G: 14-Oct S: 9-Sept	G: 30900 S: 34100	Moldboard Plow Disk	7.0	23	56	22 120	13-16-18-8s 46-0-0	planting post	Dual II Mag 1.0 pt/A Hornet 4.0 oz/A Accent 0.67 oz/A	None
Valders	T. & B. Maney	Kewaunee Clay Loam	Corn	30	2-May	G: 24-Oct S: 23-Sept	G: 26000 S: 28600	Chisel Plow Field Cultivator	6.9	91	186	9 7500 gal/A 20 Ton	6-24-24 Manure Manure	planting preplant	Dual II Mag 1.0 pt/A Accent Gold 2.0 oz/A Banvel 2.0 oz/A cultivate	Force 4.4 lbs/A
White Lake	J. Wahleithner	Antigo Silt Loam	Soybeans	30	29-Apr	G: 25-Oct	G: 29000	Disk	6.5	58	144	9 100	6-24-24 32-0-0	planting preplant	Atrazine 1.0 lb/A Harness 2.0 pt/A cultivate	None

Note: G=Grain, S=Silage

Table 4. Southern Zone - Early Maturity Grain Trial (page 1 of 2)

105 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (ARLINGTON = ARL, JANESVILLE = JAN, LANCASTER = LAN)

BRAND	HYBRID	Genes [†]	2003									2002					2 YEAR	
			AVERAGE						ARL	JAN	LAN	AVERAGE			ARL	JAN	LAN	AVERAGE
			Yield	P.I.	Moist	Test	Lodged	Yield	Yield	Yield	Yield	P.I.	Yield	Yield	Yield	Yield	P.I.	Yield
bu/A	#	%	Wt.	%	bu/A	bu/A	bu/A	bu/A	#	bu/A	bu/A	bu/A	bu/A	#	bu/A			
OBrien	OB954Bt	G	190	103 *	17.1	58	1	197 *	194	178								
Kruger	K9002YGCB	G	189	102 *	17.5	58	3	177	211 *	179	203	104 *	194 *	193	224	196 *		
Jung	6560A	GJ	168	97	17.8	56	0	164	175	166								
Kruger	EX303YGCB	G	179	99	18.0	57	2	173	189	176								
Kruger	K9203YGCB	G	184	101	18.4	55	1	188	199	165								
Dekalb	DKC5245(YGCB)	G	191	103 *	18.4	57	0	210 *	186	178								
Dekalb	DKC5018(YGCB)	G	182	100	18.6	58	0	198 *	186	160								
Mycogen	4521Bt	G	183	100	18.7	58	3	183	190	175								
Renk	RK772YGCB	G	190	102 *	18.9	55	1	201 *	183	186 *								
NK Brand	N50P5	GD	194 *	103 *	19.1	56	2	194 *	198	189 *								
Croplan Genetics	401Bt	G	192	102 *	19.1	59	0	202 *	192	180								
Mycogen	2M527		190	102 *	19.3	55	1	192 *	203	175								
Jung	2565		174	97	19.3	57	2	171	197	153	197	103	183	213 *	196	185		
Renk	RK636YGCB	G	193	103 *	19.8	55	0	204 *	190	187 *								
Asgrow	RX499YG	G	187	101	19.8	57	1	196 *	203	163								
Brown	6079		174	97	19.8	54	1	177	199	147	197	102	198 *	203 *	190	186		
100-DAY HYBRID TRIAL AVERAGE##			19.9															
Kruger	K9404YGCB	G	172	97	20.0	59	0	164	179	172								
Crows	2192B	G	179	98	20.2	58	5	186	181	170								
Midwest	G7221B	G	192	102 *	20.2	57	4	188	197	192 *								
Renk	RK633YGCB	G	194 *	102 *	20.4	57	4	195 *	197	191 *								
Cornelius	C443YG	G	186	100	20.5	55	0	195 *	186	177								
Croplan Genetics	501RRBt	GX	200 *	104 *	20.7	55	0	201 *	216 *	184 *								
Hughes	4762	G	195 *	102 *	20.8	56	2	195 *	215 *	175								
Growmark	FS4453		195 *	102 *	20.8	56	2	204 *	192	188 *	188	100	187	187	191	191		
Growmark	FS4882		183	99	20.8	55	1	196 *	190	164								
Dekalb	DKC5334(RRYGCB)	GH	185	100	20.9	56	1	204 *	200	153	216 *	106 *	205 *	214 *	231	201 *		
Spangler	5300G	G	181	99	20.9	57	0	180	196	165								
Cornelius	C430YG	G	188	100	21.0	56	2	201 *	187	176								
Jung	6580	G	177	97	21.0	59	2	176	199	156	201	103	177	191	235 *	189		
Dynagro	55P63	GX	180	98	21.1	57	1	188	181	170								
Carharts Blue Top	CX1057Bt	G	184	99	21.1	56	2	193 *	190	170								
Brown	5345YGCB	G	181	98	21.2	56	2	182	188	172								
105-DAY HYBRID TRIAL AVERAGE##			21.3															
Kruger	K9306YGCB	G	199 *	103 *	21.3	54	1	212 *	198	189 *	208 *	104 *	202 *	209 *	213	204 *		
Garst	8647		182	99	21.3	56	1	195 *	185	165								
Jung	2545		188	100	21.4	56	1	192 *	202	171								
Pioneer	35R57		203 *	104 *	21.4	56	0	212 *	209 *	188 *	183	98	190	184	174	193		
Ottilie	4102	G	193	102 *	21.4	55	1	202 *	197	181 *								
LG Seeds	LG2513Bt	G	192	101	21.6	56	1	198 *	194	184 *								
AgriGold	A6305Bt	G	183	98	21.6	56	3	199 *	187	163								
Croplan Genetics	503Bt	G	196 *	103 *	21.6	56	0	191	199	198 *	207 *	104 *	197 *	194	232	202 *		
Great Lakes	5300Bt	G	181	98	21.8	56	1	198 *	186	159								
Cornelius	C417YG	G	189	100	21.9	56	0	188	204 *	175								
Kaltenberg	K5009Bt	X	158	92	21.9	55	1	164	162	148								

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Table 4 (continued). Southern Zone - Early Maturity Grain Trial (page 2 of 2)

105 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (ARLINGTON = ARL, JANESVILLE = JAN, LANCASTER = LAN)

BRAND	HYBRID	Genes [†]	2003							2002					2 YEAR		
			AVERAGE				ARL	JAN	LAN	AVERAGE		ARL	JAN	LAN	AVERAGE		
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	
AgriGold	XA5234		200 *	103 *	22.0	54	4	200 *	211 *	188 *							
Wyffels	W3813	G	188	100	22.0	55	1	204 *	184	177	210 *	105 *	195 *	202 *	232		199 *
Trelay	7012		203 *	104 *	22.1	55	0	207 *	220 *	182 *	189	99	183	186	198		196 *
Dairyland	Stealth 5104	G	203 *	104 *	22.1	56	0	199 *	206 *	203 *							
AgriGold	A6375		184	99	22.2	55	2	188	194	169							
Spangler	5003G	G	206 *	105 *	22.2	56	0	207 *	216 *	195 *	210 *	104 *	189	196	244 *		208 *
La Crosse Forage	LC7973Bt	X	154	91	22.2	55	0	145	170	147							
Renk	RK700YGCB	G	197 *	102 *	22.4	55	1	204 *	209 *	179	212 *	105 *	190	204 *	242 *		205 *
Kussmaul	SB305RR	J	178	97	22.4	56	2	187	173	172							
Kussmaul	K405		188	100	22.6	56	1	196 *	181	189 *							
LG Seeds	LG2533		198 *	102 *	22.6	54	1	201 *	203	190 *	207 *	104 *	202 *	206 *	213		203 *
Kruger	K9206YGRW	N	185	99	22.7	56	2	195 *	181	180							
Kussmaul	K505		197 *	102 *	23.0	56	0	203 *	211 *	177							
Brown	6220		186	99	23.1	55	1	191	196	171							
Dynagro	55N37		193	101	23.1	55	1	197 *	195	186 *	184	98	177	189	187		188
Great Lakes	5377		183	98	23.1	55	1	190	186	173							
North-Gro	5909		184	98	23.2	55	1	187	192	172	192	100	184	198	195		188
Dairyland	Stealth 1605		182	98	23.4	55	1	186	189	172	189	99	184	200 *	186		186
Brown	5636		157	91	23.5	55	1	161	180	131							
Kruger	K9206YGCB	G	193	101	23.8	55	0	207 *	189	184 *							
Ottillie	4594	G	196 *	101	23.8	55	0	206 *	199	183 *							
MEAN			187	100	21.0	56	1	192	194	175	190	100	182	191	198		195
LSD(0.10)**			12	3	1.2	1	2	20	16	22	17	4	16	15	18		13

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603); M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

P.I. = Performance Index, evaluates hybrids by combining yield, moisture, and lodged % at a 50(yield) : 35(moisture) : 15(lodged) ratio.

Average grain moisture of all hybrids in this trial as rated by the Minnesota Relative Maturity Rating System. 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 5. Southern Zone - Late Maturity Grain Trial (page 1 of 2)

106 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (ARLINGTON = ARL, JANESVILLE = JAN, LANCASTER = LAN)

BRAND	HYBRID	Genes†	2003									2002			2 YEAR	
			AVERAGE					ARL	JAN	LAN	AVERAGE	ARL	JAN	LAN	AVERAGE	
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A
Wyffels	W4823	G	184	100	21.0	54	0	189	187	177						
Mycogen	5320Bt	G	192	101	21.1	55	5	194 *	209 *	173						
Hughes	4133	G	182	99	21.5	56	1	177	183	184						
Great Lakes	5722		181	98	21.5	54	3	160	204	178						
Dynagro	DG5440		197	102 *	21.7	54	1	203 *	205	182						
Kussmaul	KHC		181	98	21.8	55	1	173	188	183						
Kruger	K9305YGCB	G	190	101	21.9	56	1	190 *	193	186						
Brunner	EXP110		187	100	21.9	54	1	188	200	172						
Growmark	FS5424		189	100	21.9	54	2	191 *	199	177						
Golden Harvest	H8351		185	99	22.0	55	1	198 *	188	169						
Pioneer	35Y55	G	203	104 *	22.2	54	1	200 *	202	207 *	219 *	104 *	211 *	217 *	227	211 *
Golden Harvest	H8312		179	97	22.4	55	1	166	199	172						
Garst / Agripro	9476Bt	G	176	96	22.6	52	4	177	206	146	222 *	105 *	217 *	207 *	242 *	199
Dekalb	DKC6019(RRYGCB)	GH	186	99	22.7	55	0	181	196	180	237 *	108 *	227 *	243 *	241 *	211 *
Kruger	K9807CRW	N	170	95	22.7	55	2	178	167	165						
Mycogen	2E633	L	190	100	22.8	54	0	190 *	199	181						
Dairyland	Stealth 1606		193	101	22.8	54	2	199 *	200	181						
Jung	6545Bt	G	196	102 *	22.8	55	0	179	212 *	198 *						
105-DAY HYBRID TRIAL AVERAGE##			22.9													
Cornelius	C572		190	100	22.9	54	1	198 *	192	182						
Kussmaul	K408		182	98	23.2	53	2	167	204	175	220 *	104 *	195	211 *	253 *	201
Wyffels	W5223	G	187	99	23.2	55	3	180	196	187						
Crows	438B	G	180	97	23.3	52	2	181	203	155	208	101	189	191	243 *	194
Dekalb	DKC5878(YGCB)	G	209 *	105 *	23.3	53	1	201 *	219 *	207 *	225 *	106 *	215 *	219 *	241 *	217 *
Cornelius	C635		198	102 *	23.3	54	2	192 *	216 *	185	215	103 *	217 *	212 *	216	206
Dynagro	DG5467		204	104 *	23.4	54	1	199 *	219 *	194	219 *	104 *	210 *	232 *	216	212 *
Dairyland	Stealth 1611		196	101	23.4	54	2	197 *	213 *	176	208	101	199	229 *	197	202
Pioneer	34M94		196	101	23.5	55	5	195 *	220 *	174						
Golden Harvest	H8618Bt	G	195	101	23.6	53	1	193 *	210 *	182						
High Cycle	7698Rb	GJ	195	101	23.7	53	1	201 *	203	182						
Ottillie	4777	G	185	98	23.7	52	2	168	211 *	177	214	102	213 *	174	255 *	200
OBrien	OB1073Bt	G	192	101	23.7	55	0	187	195	194						
Kruger	K9212		196	101	23.7	53	2	198 *	204	185						
Ragt Semences	MX151		174	95	23.7	57	2	177	194	150						
Brown	7044		199	102 *	23.8	53	2	194 *	213 *	191	208	101	207	198	221	204
Ottillie	5006	G	196	101	23.8	53	2	196 *	217 *	177						
Golden Harvest	H8906		198	102 *	23.9	53	2	201 *	210 *	183						
AgriGold	A6333Bt	G	209 *	105 *	24.0	53	0	205 *	217 *	205 *	233 *	107 *	209	236 *	255 *	221 *
Dairyland	Stealth 6611	J	188	99	24.0	52	1	205 *	187	172						
Dairyland	Stealth 1507Bt	G	199	102 *	24.0	52	3	185	221 *	190	210	101	188	201	241 *	204
Bio Gene	BT1071	G	186	98	24.0	53	4	166	209 *	183	207	101	200	185	235	197
Kruger	EX411YGCB	G	183	97	24.0	54	4	155	208	188						
AgriGold	A6395		198	102 *	24.0	53	1	190 *	214 *	191	221 *	105 *	218 *	236 *	208	209 *
Midwest	G7716B	G	194	100	24.0	53	4	173	224 *	185						
NK Brand	N60B6	KD	191	100	24.1	52	1	192 *	197	184	215	102	208	212 *	227	203
North-Gro	6800		187	99	24.1	54	2	177	199	185	193	97	169	200	210	190
Mycogen	2E705	G	201	102 *	24.2	53	4	188	219 *	195						
Pioneer	34M93	L	203	102 *	24.2	54	6	186	220 *	201 *						
Dairyland	Stealth 1608		187	99	24.2	54	1	186	206	169						
Wyffels	W5460	G	193	100	24.2	52	3	190 *	210 *	180	209	101	201	198	228	201
Kruger	K9111YGCB	G	196	101	24.3	53	2	198 *	201	188						
Kruger	K9308YGCB	G	188	98	24.3	52	5	179	207	177						
Kussmaul	K410		203	103 *	24.3	53	2	181	221 *	207 *						
Dekalb	DKC5784(YGCB)	G	204	103 *	24.3	55	1	200 *	217 *	194						
Cornelius	C590YG	G	196	101	24.3	52	1	184	219 *	185	216 *	103 *	199	197	250 *	206
Midwest	G7622B	G	187	99	24.3	52	1	200 *	198	163						
Garst	8552YG1	G	186	98	24.3	52	1	184	208	166						
Kruger	K9310YGCB	G	195	101	24.4	53	0	188	212 *	186						
Kruger	K9310AYGCB	G	193	100	24.4	54	1	196 *	210 *	172	208	101	201	183	240 *	200
Great Lakes	Quad5Bt	X	200	102 *	24.4	53	0	190 *	220 *	192						

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Table 5 (continued). Southern Zone - Late Maturity Grain Trial (page 2 of 2)

106 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (ARLINGTON = ARL, JANESVILLE = JAN, LANCASTER = LAN)

BRAND	HYBRID	Genes†	2003							2002			2 YEAR			
			AVERAGE					ARL	JAN	LAN	AVERAGE			AVERAGE		
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A		
North-Gro	7071Y	G	195	101	24.5	53	2	189	215 *	181						
Bio Gene	BG1111		191	99	24.6	53	2	196 *	203	173						
Cornelius	C599		190	99	24.7	54	1	193 *	186	190						
Kaltenberg	K6767Bt	X	202	102 *	24.7	52	1	198 *	226 *	184						
Brown	6895YGCB	G	192	99	24.8	52	2	181	215 *	178	208	101	190	195	238 *	200
Hughes	5743	G	195	101	24.8	54	0	184	205	196 *						
Kruger	K9910YGCB	G	190	99	24.8	52	3	182	201	186	218 *	104 *	203	203	248 *	204
Cornelius	C637YG	G	184	98	24.9	53	0	187	199	167						
110-DAY HYBRID TRIAL AVERAGE##			24.9													
Pioneer	34B23		189	99	25.0	57	2	170	207	189						
Great Lakes	5961Bt	G	218 *	106 *	25.0	52	1	211 *	223 *	218 *						
Renk	RK789YGCB	G	196	101	25.0	53	1	180	221 *	188						
LG Seeds	LG2540Bt	G	206 *	103 *	25.0	52	1	209 *	215 *	195						
Hughes	5600	G	193	100	25.1	52	2	193 *	205	181	211	102	202	202	228	202
High Cycle	7796Rb	GJ	193	100	25.2	53	2	182	202	195						
Renk	RK837		186	97	25.2	53	4	178	214 *	164						
Dynagro	56N42		192	100	25.2	54	1	192 *	199	187						
Kruger	K9309YGCB	G	186	98	25.2	53	0	183	194	182	214	103 *	212 *	217 *	211	200
Wyffels	W7273	G	191	99	25.3	53	5	195 *	207	172	224 *	104 *	226 *	205 *	240 *	207
Spangler	674G	G	191	99	25.3	52	5	169	209 *	194						
Kruger	K9212RRYGCB	GJ	197	101	25.3	53	3	183	210 *	198 *						
Crows	4911B	G	203	102 *	25.4	52	1	199 *	221 *	189						
Kruger	EX108YGCB	G	194	100	25.6	52	3	185	213 *	183						
Brown	X7171YGCB	G	188	98	25.7	52	1	179	199	186						
Wyffels	W6578	G	199	101	25.7	52	2	187	213 *	196 *						
Growmark	FS5634Bt	G	186	98	25.9	53	0	176	210 *	174						
Carharts Blue Top	CX1080Bt	G	167	93	25.9	51	0	155	187	160						
Croplan Genetics	691BtLL	KD	200	101	26.0	52	2	189	214 *	196 *						
Cornelius	C605YG	G	189	98	26.0	52	3	184	194	189						
Lemke	7068Bt	G	202	102 *	26.0	53	1	198 *	227 *	180						
Jung	6710	G	200	101	26.3	53	1	189	215 *	196 *	222 *	104 *	218 *	219 *	230	211 *
NK Brand	N65Y3	KD	198	101	26.3	53	1	204 *	196	195	220 *	104 *	216 *	213 *	232	209 *
Croplan Genetics	601Bt	G	202	102 *	26.3	54	1	190 *	218 *	197 *						
Wyffels	W5483	G	173	94	26.3	54	0	178	182	159						
Spangler	7558G	G	194	100	26.4	52	0	192 *	203	186	217 *	102	216 *	197	239 *	205
Garst	8556YG1	G	199	101	26.4	53	4	194 *	194	211 *						
High Cycle	7748Bt	G	190	98	26.7	52	6	173	196	202 *						
High Cycle	7807Bt	G	193	99	26.7	50	2	179	216 *	183						
OBrien	OB1113Bt	G	198	100	26.7	53	1	197 *	222 *	177						
Golden Harvest	H9148Bt	G	192	98	26.8	50	3	189	220 *	168						
Wyffels	W5541	G	181	96	26.9	53	0	178	196	170	196	97	187	179	222	189
Ottillie	5267	G	198	100	27.0	53	1	188	217 *	189	216 *	102	207	189	253 *	207
Asgrow	RX702YG	G	201	101	27.2	53	0	199 *	215 *	189						
Pioneer	34N42	L	196	100	27.2	54	1	192 *	203	192						
Cornelius	C707RRYG	GJ	201	100	28.1	52	2	190 *	219 *	193						
Pioneer	33A14	G	198	100	28.1	54	4	188	192	214 *	229 *	105 *	219 *	211 *	257 *	214 *
Kruger	EX414YGCB	G	192	98	28.3	52	1	195 *	197	183						
Kruger	EX412YGCB	G	191	98	28.5	52	0	194 *	200	180						
Kruger	K9314YGCB	G	197	99	28.6	52	0	196 *	208	186						
Kruger	K9314A	G	191	98	28.9	52	0	195 *	196	181						
MEAN			193	100	24.6	53	2	188	206	184	204	100	199	198	215	204
LSD(0.10)**			13	4	1.7	1	3	21	18	22	21	5	17	38	19	12

† Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603);

M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

P.I. = Performance Index, evaluates hybrids by combining yield, moisture, and lodged % at a 50(yield) : 35(moisture) : 15(lodged) ratio.

Average grain moisture of all hybrids in this trial as rated by the Minnesota Relative Maturity Rating System. 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 6. South Central Zone - Early Maturity Grain Trial (page 1 of 2)

100 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (FOND DU LAC = FON, GALESVILLE = GAL, HANCOCK = HAN)

BRAND	HYBRID	Genes [†]	2003									2002					2 YEAR	
			AVERAGE						FON	GAL	HAN	AVERAGE		FON	GAL	HAN	AVERAGE	
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A		
Kussmaul	K593		188	99	18.6	58	1	158	177	231								
Renk	RK438YGCB	G	189	99	18.7	58	0	180 *	173	214								
Garst	ND922YG1	G	193	100	19.0	58	0	179 *	181	218								
Spangler	324G	G	190	99	19.0	57	0	179 *	173	219								
Dynagro	53F49	G	193	100	19.3	58	0	185 *	180	213								
Dekalb	DKC4295(RRYGCB)	GH	197	101 *	19.7	57	0	181 *	185	226								
Pilgrim Seed	9601		195	100	19.7	56	1	174 *	177	235	181	95	162	186	194		188	
Dairyland	Stealth 1598		187	98	19.8	56	1	150	191	220	211	101	181	235 *	218		199	
OBrien	OB954Bt	G	199	101 *	19.8	57	0	175 *	179	242 *								
Growmark	FS3724		191	99	19.8	56	1	150	191	231								
Dekalb	DKC4446(RRYGCB)	GH	203	102 *	19.9	55	0	182 *	202	225	207	101	194	208	220		205	
Kussmaul	K595		184	97	19.9	58	0	165	171	215								
Foundation Direct	X103		211 *	104 *	19.9	57	0	177 *	205	250 *								
Midwest	G6963B	G	194	100	19.9	56	0	183 *	190	208								
Kruger	K9002YGCB	G	209 *	103 *	20.0	57	0	161	210	255 *								
Dairyland	Stealth 5497	G	195	100	20.1	56	0	178 *	193	214								
Mycogen	2R426	G	197	101 *	20.1	56	0	183 *	182	226								
Dairyland	Stealth 1497		191	99	20.1	56	1	172	169	231	199	99	177	192	227		195	
Carharts Blue Top	CX1956Bt	G	207 *	103 *	20.1	56	0	189 *	191	239 *								
Growmark	FS3584		196	100	20.1	55	1	179 *	180	228								
La Crosse Forage	LC4531		192	99	20.1	55	1	171	179	227								
Bio Gene	BG991		189	98	20.2	55	1	162	195	210								
Jung	2432		199	101 *	20.2	55	1	181 *	186	231								
Kruger	K9496YGCB	G	200	101 *	20.2	56	0	184 *	190	225								
Croplan Genetics	344Bt	G	178	95	20.3	58	0	152	172	209								
LG Seeds	LG2463Bt	G	187	98	20.3	56	0	167	191	203	221	104	218 *	215	231		204	
AgriGold	XA6205Bt	X	204	102 *	20.3	56	0	185 *	190	238 *								
Crows	1703B	G	203	102 *	20.4	56	0	188 *	190	230								
Lemke	5015Bt	G	206	102 *	20.4	56	2	164	205	248 *								
Renk	RK622		199	101 *	20.4	56	1	165	201	232	226	104	193	240 *	243		212 *	
Croplan Genetics	364Bt	G	195	100	20.4	56	0	174 *	183	229								
Lemke	4011Bt	G	202	101 *	20.4	56	0	171	200	235								
Great Lakes	4623Bt	G	198	101 *	20.5	56	0	173 *	198	222								
Dekalb	DKC4710(RRYGCB)	GH	195	100	20.5	57	0	180 *	188	218								
Johnson Seeds	2151		196	100	20.5	55	1	180 *	171	237 *								
Agripro	8880YG1	G	206	102 *	20.5	55	0	177 *	190	249 *								
Dekalb	DKC4628(RR)	H	203	102 *	20.5	57	1	182 *	193	235	204	100	174	196	243		204	
Jung	6432	G	201	102 *	20.5	56	0	183 *	201	218								
Badgerland	BL509Y	X	202	101 *	20.6	56	1	170	191	244 *								
Renk	RK556		192	99	20.6	55	1	166	193	215	206	99	165	226	226		199	
LG Seeds	LG2489		198	101 *	20.6	55	1	171	208	215								
95-DAY HYBRID TRIAL AVERAGE##			20.7															
Kussmaul	K499		183	96	20.7	55	2	143	185	221	204	99	182	218	213		194	
Brunner	S4993		199	101 *	20.7	56	0	161	198	238 *								
Croplan Genetics	354Bt	G	194	99	20.8	58	0	170	186	226								

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Table 6 (continued). South Central Zone - Early Maturity Grain Trial (page 2 of 2)

100 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (FOND DU LAC = FON, GALESVILLE = GAL, HANCOCK = HAN)

BRAND	HYBRID	Genes [†]	2003									2002			2 YEAR		
			AVERAGE						FON	GAL	HAN	AVERAGE		FON	GAL	HAN	AVERAGE
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A
Dynagro	53F09	G	195	100	20.8	56	1	189 *	180	217							
AgriGold	XA6302		188	98	20.9	55	1	160	198	206							
Dekalb	DKC4884(RRYGCB)	GH	206	102 *	20.9	56	0	175 *	197	245 *							
Renk	RK488YGCB	G	211 *	103 *	21.0	55	0	188 *	197	247 *							
Golden Harvest	H7108		190	98	21.0	56	2	161	177	233							
Hughes	2970	G	204	101 *	21.1	56	0	161	212	238 *	232 *	106 *	216 *	233 *	249 *	218 *	
Growmark	FS4042Bt	G	207 *	102 *	21.2	56	1	166	205	249 *	236 *	107 *	211 *	242 *	255 *	221 *	
Kaltenberg	K4950		209 *	103 *	21.3	54	2	184 *	201	241 *							
Johnson Seeds	4650		198	100	21.5	54	1	157	202	233							
Pioneer	38A25	G	196	100	21.5	58	0	176 *	183	231							
Pioneer	37R71	G	191	98	21.5	54	0	158	180	235							
Golden Harvest	H7140Bt	G	188	98	21.7	56	0	172	175	219	205	100	177	226	213	197	
100-DAY HYBRID TRIAL AVERAGE##					21.7												
La Crosse Forage	LC7415		186	97	21.9	57	0	148	188	222	185	94	163	185	208	186	
AgriGold	A6235BtRR	XX	196	100	22.2	56	0	181 *	190	217							
High Cycle	7560Bt	G	221 *	105 *	22.2	54	0	184 *	226 *	251 *							
Dekalb	DKC5018(YGCB)	G	209 *	102 *	22.3	55	1	185 *	199	241 *							
Renk	RK633YGCB	G	205	101 *	22.8	55	2	175 *	204	236 *							
Dynagro	55P63	GX	195	99	23.4	54	0	170	198	218							
Johnson Seeds	2247BtRR	XX	189	97	23.7	54	0	163	183	221							
Pioneer	37H26	D	203	100	23.7	58	0	173 *	203	232							
Brown	5636		170	91	23.8	53	1	131	156	224							
Brown	5130YGCB	G	202	100	23.9	54	0	176 *	203	225							
North-Gro	5530Y	G	208 *	101 *	24.1	52	1	176 *	203	244 *							
Dynagro	DG5295Bt	G	200	99	24.2	54	0	171	200	227	224	104	217 *	230	225	212 *	
Brown	5020		205	99	25.4	53	2	162	205	246 *							
Spangler	4203G	X	198	98	26.3	52	3	171	198	225							
MEAN			197	100	21.0	56	1	172	191	229	208	100	186	214	223	202	
LSD(0.10)**			14	4	1.1	1	1	16	12	19	15	4	20	18	18	12	

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603); M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

P.I. = Performance Index, evaluates hybrids by combining yield, moisture, and lodged % at a 50(yield) : 35(moisture) : 15(lodged) ratio.

Average grain moisture of all hybrids in this trial as rated by the Minnesota Relative Maturity Rating System. 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 7. South Central Zone - Late Maturity Grain Trial (page 1 of 2)

101 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (FOND DU LAC = FON, GALESVILLE = GAL, HANCOCK = HAN)

BRAND	HYBRID	Genes†	2003									2002			2 YEAR			
			AVERAGE						FON	GAL	HAN	AVERAGE	FON	GAL	HAN	AVERAGE		
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A		
Dekalb	DKC5245(YGCB)	G	201	103 *	19.7	56	0	182 *	200	222								
NK Brand	N45A6	KD	199	102 *	19.8	55	0	164	202	231	235 *	107 *	196	237 *	272 *		217 *	
Kaltenberg	K5151Bt	X	196	101	20.0	57	2	171	190	225								
High Cycle	7525Bt	G	210 *	105 *	20.2	57	2	180 *	208 *	243 *								
Dahlman	D5102Bt	G	201	102 *	20.3	57	2	171	198	233	238 *	108 *	206	245 *	262 *		219 *	
Mycogen	4521Bt	G	200	102 *	20.5	57	2	165	204	231								
Dairyland	Stealth 1502		184	98	20.9	56	1	147	194	211								
Dairyland	Stealth 1602		194	101	20.9	55	1	173	186	224								
Hughes	3030		190	99	21.0	55	1	145	193	231								
Mycogen	2M527		190	99	21.4	54	1	156	196	219								
Jung	6560A	GJ	181	97	21.4	54	0	157	179	207								
Kaltenberg	K5123		189	99	21.6	55	0	157	194	217								
Kruger	EX303YGCB	G	204 *	102 *	21.6	55	1	157	209 *	247 *								
100-DAY HYBRID TRIAL AVERAGE##					21.8													
Jung	6573	G	196	101	22.1	53	0	158	205	226								
Midwest	G7221B	G	197	101	22.1	56	2	165	208 *	219								
Renk	RK772YGCB	G	215 *	105 *	22.2	54	0	187 *	210 *	247 *								
Kruger	K9203YGCB	G	195	100	22.3	53	0	162	201	224								
Renk	RK636YGCB	G	194	100	22.3	53	0	163	197	224								
Kruger	K9404YGCB	G	190	99	22.4	56	0	160	193	217								
Asgrow	RX499YG	G	198	101	22.4	55	0	171	201	222								
NK Brand	N50P5	GD	211 *	104 *	22.5	53	1	182 *	213 *	237 *								
Crows	2192B	G	195	100	22.5	56	2	174	191	220								
Dairyland	Stealth 1503		202	102 *	22.6	54	2	169	207 *	229								
Golden Harvest	H7470Bt	G	187	98	22.7	54	1	159	173	230								
Garst	8787YG1	G	188	98	22.8	56	0	152	203	209								
Jung	6580	G	189	99	22.8	56	1	159	194	215	213	101	168	219	254 *		201	
Brunner	EXP104		203 *	102 *	23.0	54	0	177 *	202	229								
Dekalb	DKC5334(RRYGCB)	GH	203 *	102 *	23.0	54	0	171	213 *	225	229 *	105 *	206	232 *	247		216	
Spangler	5300G	G	188	99	23.1	54	0	166	207 *	192								
Pioneer	36N71	G	212 *	104 *	23.1	54	1	191 *	206	240 *								
Dynagro	CX03502		186	98	23.2	56	0	155	193	210								
High Cycle	7592Rb	GJ	202	102 *	23.2	56	0	173	216 *	217								
NK Brand	N51Z7	KD	211 *	104 *	23.3	53	1	172	216 *	247 *	229 *	105 *	211	232 *	244		220 *	
Golden Harvest	H7900		188	98	23.4	54	0	162	193	209								
Dynagro	DG5440		205 *	103 *	23.4	53	0	187 *	207 *	221	214	99	182	216	243		209	
La Crosse Forage	LC7374		160	90	23.5	53	0	114	161	206								
Kruger	K9306YGCB	G	208 *	103 *	23.8	52	0	177 *	192	254 *								
Dairyland	Stealth 1606		204 *	102 *	24.0	52	0	171	223 *	220	220	101	197	220	244		212	
AgriGold	A6305Bt	G	198	100	24.0	54	0	175	196	222								
Pioneer	36B08		194	99	24.1	55	1	163	198	222	215	101	186	226	233		205	
Trelay	6400		187	97	24.2	53	1	164	194	201	201	96	159	211	233		194	
Brown	5345YGCB	G	196	100	24.2	54	0	160	193	236								
105-DAY HYBRID TRIAL AVERAGE##					24.3													
Kruger	K9305YGCB	G	198	100	24.4	53	0	162	194	237 *								

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Table 7 (continued). South Central Zone - Late Maturity Grain Trial (page 2 of 2)

101 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (FOND DU LAC = FON, GALESVILLE = GAL, HANCOCK = HAN)

BRAND	HYBRID	Genes [†]	2003									2002			2 YEAR	
			AVERAGE						FON	GAL	HAN	AVERAGE	FON	GAL	HAN	AVERAGE
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A
Garst	8647		194	99	24.5	53	1	161	194	227	227 *	104 *	188	252 *	240	210
Trelay	7012		205 *	102 *	24.5	53	0	183 *	213 *	219						
Renk	RK700YGCB	G	204 *	102 *	24.6	53	0	172	212 *	228	216	101	193	218	238	210
Carharts Blue Top	CX1057Bt	G	200	100	24.6	53	0	169	202	228						
Pioneer	35Y55	G	214 *	104 *	24.7	52	0	180 *	205	256 *	240 *	107 *	238 *	229	253 *	227 *
Lemke	5031Bt	G	202	101	24.9	55	0	169	212 *	225						
Foundation Direct	8670		184	96	24.9	53	1	147	175	230						
Jung	6545Bt	G	197	100	24.9	54	0	164	200	226						
Spangler	5003G	G	207 *	102 *	25.0	54	0	178 *	214 *	228	227 *	104 *	213 *	225	244	217 *
AgriGold	XA5234		206 *	102 *	25.0	51	2	169	206	245 *						
Crows	3520B	G	198	100	25.0	53	0	168	198	228	221	102	187	223	255 *	210
Midwest	G7494B	G	195	99	25.1	52	0	165	196	223	233 *	105 *	211	234 *	255 *	214
Dairyland	Stealth 5104	G	197	99	25.2	54	0	167	201	222						
High Cycle	7601Bt	G	205 *	102 *	25.3	54	0	179 *	208 *	227						
Great Lakes	5377		200	100	25.4	53	0	178 *	191	231						
LG Seeds	LG2518		194	99	25.4	53	1	171	201	211						
Dynagro	55N37		199	100	25.4	53	0	169	212 *	216	208	99	177	220	227	204
OBrien	OBX1064RRBt	HX	187	97	25.5	54	0	161	186	215						
OBrien	OB1033RR	J	204 *	101	25.6	54	2	171	215 *	227						
High Cycle	7698Rb	GJ	204 *	101	25.8	51	1	167	211 *	234						
AgriGold	A6333Bt	G	212 *	103 *	25.9	51	0	190 *	222 *	224						
Golden Harvest	H8312		182	95	25.9	53	1	157	184	204						
Brunner	S5202		185	96	26.4	53	0	163	186	205	213	100	206	208	225	199
Dairyland	Stealth 1605		185	96	26.5	52	0	156	195	205						
Kruger	K9310YGCB	G	194	98	26.6	53	0	168	189	226						
Kruger	EX108YGCB	G	196	99	26.7	50	0	169	203	218						
Kruger	K9310AYGCB	G	186	96	27.2	52	1	148	197	214						
Kruger	K9308YGCB	G	198	99	27.5	50	0	169	206	220						
Dairyland	Stealth 1507Bt	G	196	98	27.8	50	1	160	202	228	232 *	104 *	202	247 *	247	214
Kruger	K9910YGCB	G	200	99	28.2	50	1	162	199	240 *						
Carharts Blue Top	CX1080Bt	G	184	94	30.0	49	0	143	187	223						
MEAN			197	100	23.8	54	1	166	200	224	211	100	184	214	234	211
LSD(0.10)**			12	3	1.5	1	1	14	16	19	16	4	26	22	19	10

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603); M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

P.I. = Performance Index, evaluates hybrids by combining yield, moisture, and lodged % at a 50(yield) : 35(moisture) : 15(lodged) ratio.

Average grain moisture of all hybrids in this trial as rated by the Minnesota Relative Maturity Rating System. 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. North Central Zone - Early Maturity Grain Trial (page 1 of 2)

90 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (CHIPPEWA FALLS = CHP, MARSHFIELD = MAR, SEYMOUR = SEY, VALDERS = VAL)

BRAND	HYBRID	Genes [†]	2003								2002					2 YEAR		
			AVERAGE					CHP	MAR	SEY	VAL	AVERAGE		CHP	MAR	SEY	VAL	AVERAGE
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A
LG Seeds	LG2355		142	100	17.7	54	0	91	123	183	170							
Dekalb	DKC3501(RR)	H	128	96	18.3	53	1	103	115	133	159							
Spangler	154G	G	145	100	18.4	54	0	95	127 *	188	173							
Johnson Seeds	4240		137	98	18.4	53	1	96	111	173	170							
Jung	2202		142	100	18.5	55	1	111	118	178	162							
Kussmaul	SB383RR	J	134	96	18.5	55	1	81	111	181	161							
Dairyland	Stealth 1685		143	100	18.5	54	1	101	122	180	167							
Dairyland	Stealth 1280		136	97	18.9	54	1	100	111	179	159							
Ag+ Seeds	6387RR	H	144	99	18.9	55	1	79	121	206	170							
Johnson Seeds	2111RR	X	148	101	19.0	56	0	94	121	201	176							
Renk	RK288		143	101	19.0	54	0	117	119	173	164							
Kussmaul	SB387RR	J	143	99	19.1	56	0	101	115	183	167							
Mycogen	M2E212		132	96	19.1	54	1	105	105	163	158							
85-DAY HYBRID TRIAL AVERAGE##					19.2													
Carharts Blue Top	CR85RR	J	144	100	19.2	56	0	101	115	195	162							
Gold Country	8302RR	X	150	102 *	19.3	55	1	119	122	185	171							
Brunner	B2495		133	94	19.3	52	1	64	102	193	172	164	103	148	195	176	136	148
Garst	8959YG1	G	147	101	19.4	54	1	111	116	182	180							
Dahlman	D4301		148	101	19.5	56	0	101	120	200	173	162	102	153	189	167	139	155
Ag+ Seeds	6290Bt	G	147	100	19.5	56	0	95	126 *	191	174							
Mycogen	2H243	G	145	99	19.8	53	1	99	113	186	174							
Pioneer	39D82	G	142	98	19.8	55	2	98	118	186	165							
Carharts Blue Top	CR840RB	GX	158 *	106 *	19.9	55	1	147 *	122	187	176	171	105	164 *	214 *	170	136	164
Johnson Seeds	2241		136	95	20.0	55	0	81	102	198	159	156	98	136	208 *	164	114	145
Carharts Blue Top	CR8500RB	GX	146	99	20.1	54	0	84	112	206	186	166	103	162 *	193	174	137	157
Spangler	2777RG	GX	150	100	20.1	54	0	89	115	212	180	160	100	147	191	179	123	155
Brown	1811YGCB	G	143	99	20.1	55	1	103	110	185	172							
Lemke	2043RRBt	GX	149	100	20.3	54	0	94	115	215	172							
Jung	6205	GJ	151	102 *	20.4	54	1	112	121	190	177	169	103	155	210 *	195 *	115	159
La Crosse Forage	LC7283		109	86	20.6	54	3	68	94	152	125							
Pilgrim Seed	8601		151	103 *	20.6	56	1	132 *	114	185	171	197 *	112 *	183 *	220 *	213 *	172 *	174 *
Croplan Genetics	294Bt	G	158 *	103 *	20.8	52	0	96	116	229 *	193 *							
Johnson Seeds	3750		145	99	20.9	54	1	107	109	194	167							
Brunner	S3903RRBt	GX	146	99	21.0	54	0	97	117	199	175							
Brunner	S2852RRBt	GX	151	101	21.0	54	1	111	115	193	186	166	102	148	210 *	173	131	159
90-DAY HYBRID TRIAL AVERAGE##					21.2													
Dahlman	D4515	G	161 *	104 *	21.2	53	1	108	121	210	199 *	198 *	113 *	182 *	223 *	210 *	176 *	179 *
Kaltenberg	K2727Bt	X	149	100	21.2	55	0	109	109	202	177							
Dahlman	R45S15	GX	153	101	21.3	54	1	101	119	195	198 *							
Lemke	3081Bt	G	160 *	103 *	21.4	53	2	93	138 *	213	197 *							

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Table 8 (continued). North Central Zone - Early Maturity Grain Trial (page 2 of 2)

90 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (CHIPPEWA FALLS = CHP, MARSHFIELD = MAR, SEYMOUR = SEY, VALDERS = VAL)

BRAND	HYBRID	Genes [†]	2003										2002				2 YEAR	
			AVERAGE					CHP	MAR	SEY	VAL	AVERAGE		CHP	MAR	SEY	VAL	AVERAGE
			Yield bu/A	P.I. #	Moist %	Test Wt.	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A
Dekalb	DKC3948(RRYGCB)	GH	142	97	21.5	53	0	83	121	196	172							
Johnson Seeds	5150		145	98	21.6	52	1	85	117	203	176							
NK Brand	N29A2	GD	157 *	102 *	21.7	53	0	106	122	221 *	174							
High Cycle	7242Bt	G	156 *	101	21.7	53	3	90	129 *	220 *	184							
Dahlman	D4501Bt	G	153	101	21.7	53	0	93	125	208	183	175	105	149	207 *	179	164 *	164
Brown	3000YGCB	G	164 *	105 *	21.8	54	1	126 *	117	215	193 *							
Garst	ND922YG1	G	164 *	105 *	21.8	54	1	127 *	115	214	195 *							
Ragt Semences	MX152		153	101	21.9	53	1	106	113	202	189							
Carharts Blue Top	CR1857RB	GX	160 *	103 *	22.1	54	1	101	131 *	211	195 *							
Dekalb	DKC3947(RR)	H	149	100	22.1	54	1	103	116	199	180	184	109 *	156	210 *	204 *	165 *	167
Wolf River Valley	2490	G	169 *	107 *	22.1	53	2	118	130 *	224 *	206 *							
Ag+ Seeds	5492Bt	G	149	100	22.1	53	1	108	114	193	178							
Ragt Semences	MX155		150	99	22.2	53	3	91	113	209	185							
MEAN			147	100	20.3	54	1	101	117	195	175	159	100	138	197	170	130	160
LSD(0.10)**			14	5	1.7	1	1	24	12	13	13	13	5	24	17	22	20	10

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603);

M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

P.I. = Performance Index, evaluates hybrids by combining yield, moisture, and lodged % at a 50(yield) : 35(moisture) : 15(lodged) ratio.

Average grain moisture of all hybrids in this trial as rated by the Minnesota Relative Maturity Rating System. 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. North Central Zone - Late Maturity Grain Trial (page 1 of 2)

91 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (CHIPPEWA FALLS = CHP, MARSHFIELD = MAR, SEYMOUR = SEY, VALDERS = VAL)

BRAND	HYBRID	Genes [†]	2003								2002					2 YEAR	
			AVERAGE				CHP	MAR	SEY	VAL	AVERAGE		CHP	MAR	VAL	AVERAGE	
			Yield bu/A	P.I. #	Moist Test %	Lodged Wt. %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	
Kussmaul	K492		134	95	18.6	55	0	99	96	183	155						
Dairyland	Stealth 1592		146	98	19.1	55	1	102	111	207	162						
Dairyland	Stealth 7191	GX	145	98	19.6	53	0	96	123	197	166						
High Cycle	7495Rb	GJ	155	101 *	20.3	53	0	109	127	217 *	169						
Jung	6420	GJ	146	98	20.4	53	1	97	119	198	170						
Brunner	S3630RR	X	148	99	20.4	55	0	94	131	203	165						
Dairyland	Stealth 1692		139	96	20.8	54	1	98	107	192	160						
Wolf River Valley	2493RR	GX	162 *	104 *	20.9	53	0	120 *	146 *	205	180						
Kussmaul	SB392RR	J	150	99	21.0	55	0	102	127	202	170						
Johnson Seeds	2194BtRR	XX	153	101 *	21.1	54	0	118 *	127	202	167						
Renk	RK438YGCB	G	158 *	102 *	21.3	54	2	118 *	132	205	178						
NK Brand	N32L9	KD	162 *	102 *	21.4	52	1	120 *	102	231 *	195 *	191 *	107 *	208 *	209 *	158 *	176 *
90-DAY HYBRID TRIAL AVERAGE##					21.5												
Jung	6418	GJ	153	101 *	21.5	53	0	125 *	120	181	185						
LG Seeds	LG2415		139	95	21.7	54	1	97	103	194	162						
Pioneer	38P04	L	156	101 *	21.7	54	0	113 *	135	206	171						
Dahlman	D4801		167 *	105 *	21.8	52	1	118 *	138	215 *	200 *	187 *	105 *	180	218 *	162 *	178 *
Dahlman	D4747	G	156	100 *	21.8	53	1	102	116	229 *	177						
Great Lakes	4256Bt	G	165 *	104 *	21.8	54	0	120 *	139	215 *	187 *						
Croplan Genetics	344Bt	G	141	95	21.9	54	1	91	114	199	160	175 *	102 *	172	203 *	149	157
Dekalb	DKC4295(RRYGCB)	GH	156	101 *	22.0	53	0	112 *	129	202	180						
Spangler	324G	G	160 *	101 *	22.0	54	0	106	125	218 *	191 *						
LG Seeds	LG2407Bt	G	160 *	102 *	22.0	53	0	105	148 *	197	188 *						
Dairyland	Stealth 5497	G	156	100 *	22.0	53	1	106	125	212	180						
Croplan Genetics	314Bt	G	160 *	101 *	22.0	54	1	114 *	123	219 *	182						
Midwest	G6963B	G	160 *	102 *	22.0	53	1	115 *	125	214 *	184						
Lemke	4011Bt	G	150	98	22.1	52	2	93	117	202	188 *						
Dairyland	Stealth 1497		161 *	102 *	22.1	52	1	99	146 *	214 *	186 *	179 *	103 *	181	196	161 *	171 *
Kaltenberg	K4688	X	158 *	101 *	22.1	52	1	96	136	215 *	187 *						
Dahlman	D4815	G	151	98	22.1	52	1	86	135	202	179						
North-Gro	4674Y	G	150	98	22.1	54	1	102	107	211	180						
Bio Gene	BG940		155	100 *	22.1	53	1	107	124	212	179						
Carharts Blue Top	CX1956Bt	G	162 *	102 *	22.2	52	0	118 *	116	221 *	194 *						
Lemke	4021Bt	G	150	98	22.2	54	0	107	107	213 *	174						
Johnson Seeds	2238RR	X	163 *	103 *	22.2	53	1	112 *	138	218 *	185						
NK Brand	N35B8	GD	156	101 *	22.3	51	1	117 *	128	198	178						
Jung	6432	G	160 *	101 *	22.3	52	1	101	133	215 *	192 *						
North-Gro	4460RR	J	160 *	102 *	22.4	53	1	118 *	129	216 *	175						
Mycogen	2K350	G	158 *	102 *	22.4	53	0	135 *	117	203	176						
Kussmaul	SB494RR	J	145	96	22.4	54	0	92	118	200	168						
Johnson Seeds	2151		164 *	103 *	22.4	52	1	104	138	222 *	193 *						
Brown	3020YGCB	G	155	100 *	22.4	53	0	104	121	215 *	179						
Golden Harvest	H6775Bt	G	143	96	22.4	56	0	102	106	196	167	185 *	105 *	184 *	210 *	161 *	163
Agripro	8880YG1	G	161 *	102 *	22.4	52	0	106	128	214 *	194 *						
95-DAY HYBRID TRIAL AVERAGE##					22.5												

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Table 9 (continued). North Central Zone - Late Maturity Grain Trial (page 2 of 2)

91 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (CHIPPEWA FALLS = CHP, MARSHFIELD = MAR, SEYMOUR = SEY, VALDERS = VAL)

BRAND	HYBRID	Genes [†]	2003								2002					2 YEAR	
			AVERAGE				Lodged	Yield	Yield	Yield	Yield	AVERAGE		CHP	MAR	VAL	AVERAGE
			Yield	P.I.	Moist	Test						bu/A	P.I.				
			bu/A	#	%	Wt.	%	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Ragt Semences	MX156		165 *	103 *	22.6	53	2	129 *	120	215 *	194 *						
Jung	6370	G	152	99	22.6	53	0	111	119	204	176	176 *	102 *	181	208 *	138	164
NK Brand	N3030BT	KD	149	98	22.7	53	0	121 *	97	200	172	183 *	104 *	187 *	207 *	154	165
Gold Country	9401CB	G	169 *	105 *	22.7	53	0	114 *	159 *	220 *	181						
Dekalb	DKC4446(RRYGCB)	GH	163 *	103 *	22.7	52	0	126 *	133	206	186 *	195 *	108 *	200 *	207 *	179 *	179 *
Brown	4250YGCB	G	160 *	102 *	22.7	52	1	112 *	130	212	187 *						
Dynagro	53F49	G	163 *	103 *	22.8	54	0	122 *	139	210	181						
Croplan Genetics	364Bt	G	168 *	105 *	22.8	52	0	113 *	156 *	210	194 *						
Dairyland	Stealth 1496		146	96	22.8	51	1	98	106	198	182	180 *	103 *	187 *	202 *	149	162
Dahlman	R4815	X	163 *	104 *	22.8	52	1	125 *	146 *	205	179						
Dynagro	53P30	GX	150	99	22.8	54	0	114 *	125	176	185						
Dairyland	Stealth 5194	G	160 *	102 *	22.9	53	0	126 *	123	210	183						
Wolf River Valley	2496	G	163 *	102 *	22.9	53	0	112 *	131	221 *	190 *						
High Cycle	7301Bt	G	148	98	22.9	53	0	99	125	198	172						
Kaltenberg	K4664		165 *	104 *	22.9	53	1	130 *	136	207	187 *	174	101 *	164	202 *	155	170 *
Jung	2432		152	99	23.0	52	1	105	138	195	172	181 *	103 *	186 *	211 *	145	166
La Crosse Forage	LC7333		116	88	23.1	53	3	90	99	144	132						
Dekalb	DKC4710(RRYGCB)	GH	166 *	104 *	23.1	54	0	124 *	129	222 *	191 *						
Brunner	EXP96		148	98	23.1	54	0	121 *	103	191	178						
Renk	RK622		147	96	23.4	52	1	90	113	211	172	177 *	101 *	161	212 *	158 *	161
Dekalb	DKC4442(YGCB)	G	161 *	102 *	23.4	51	0	129 *	114	210	189 *	183 *	104 *	172	206 *	170 *	172 *
Dynagro	53F09	G	169 *	105 *	23.5	52	0	131 *	139	213 *	194 *						
Jeske	SX224		140	94	23.5	51	0	101	91	190	169	152	94	156	182	118	146
La Crosse Forage	LC7383		155	99	23.5	51	1	95	130	214 *	183						
Mycogen	2R426	G	165 *	103 *	23.7	52	0	127 *	131	205	194 *						
Johnson Seeds	3565		147	96	23.7	51	1	93	108	209	177						
Renk	RK488YGCB	G	169 *	105 *	23.8	53	0	128 *	143 *	214 *	191 *						
La Crosse Forage	LC7953Bt	X	138	93	23.8	51	0	82	114	186	173						
La Crosse Forage	LC7415		145	96	23.8	54	1	108	105	202	163	139	89	150	174	92	144
Pioneer	38A25	G	162 *	102 *	23.9	54	1	128 *	127	208	183	186 *	105 *	203 *	208 *	148	174 *
Croplan Genetics	354Bt	G	158 *	101 *	23.9	54	0	120 *	123	205	183						
Pioneer	37J99	C	164 *	102 *	24.1	51	1	120 *	125	225 *	184						
Dekalb	DKC4884(RRYGCB)	GH	156	99	24.2	52	0	107	120	208	185						
Pioneer	37R71	G	158 *	99	24.7	50	0	108	115	214 *	189 *	177 *	102 *	166	207 *	159 *	167
100-DAY HYBRID TRIAL AVERAGE##					24.9												
Dynagro	DG5295Bt	G	155	97	28.6	50	0	109	117	204	189 *						
MEAN			155	100	22.4	53	1	110	124	206	179	172	100	172	201	143	166
LSD(0.10)**			12	5	1.5	1	1	23	19	18	14	20	7	26	18	21	10

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603); M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

P.I. = Performance Index, evaluates hybrids by combining yield, moisture, and lodged % at a 50(yield) : 35(moisture) : 15(lodged) ratio.

Average grain moisture of all hybrids in this trial as rated by the Minnesota Relative Maturity Rating System. 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. Northern Zone Grain Trial

WHITE LAKE = WHL, SPOONER DRYLAND SAND = SPD, SPOONER IRRIGATED SAND = SPI, SPOONER DRYLAND SILT LOAM = SPS

BRAND	HYBRID	Genes [†]	2003								2002					2 YEAR			
			AVERAGE				WHL	SPD	SPI	SPS	AVERAGE		WHL	SPD	SPI	SPS	AVERAGE		
			Yield bu/A	P.I. #	Moist %	Test Wt. %	Lodged %	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	
LG Seeds	LG2355		107	97	18.4	54	13	94	* 55	178	100								
Dairyland	Stealth 1685		109	99	18.7	54	14	100	* 62	165	108 *								
NK Brand	N16N7	GD	108	100 *	18.7	58	1	66	83 *	188	95								
Carharts Blue Top	CR85RR	J	107	97	18.9	55	8	75	65	185	103								
Dahlman	R4215	X	117	104 *	19.1	54	7	90	* 79 *	183	117 *								
Golden Harvest	H6155RR	J	107	98	19.1	54	7	89	* 61	176	102								
Renk	RK232		113	102 *	19.2	55	6	83	77 *	175	116 *	160	102	146	182 *	170	145	137 *	
NK Brand	N17R3	KD	110	101 *	19.5	56	1	105	* 66	174	93	155	101	163 *	140	157	161	132	
Ragt Semences	MX227		105	96	19.6	54	12	85	54	176	105								
85-DAY HYBRID TRIAL AVERAGE##			19.8																
North-Gro	1541RR	J	117	103 *	19.9	54	10	103	* 78 *	178	109 *								
Pioneer	39D82	G	126 *	107 *	19.9	54	5	119	* 75 *	203	* 107	160	102	150	161	162	166	143 *	
Golden Harvest	H6395		119	104 *	19.9	54	4	95	* 79 *	192	109 *								
NK Brand	N25J7	GD	115	103 *	19.9	55	1	80	78 *	190	113 *								
Carharts Blue Top	CX8500A		110	99	19.9	54	6	70	76 *	196	* 98	162	103	154	181 *	153	157	136 *	
Renk	RK288		106	97	20.0	53	9	70	64	175	115 *								
Dynagro	51N39		102	94	20.3	52	7	75	58	185	88								
Renk	RK240		106	98	20.4	52	4	78	69	177	98								
Brunner	S2055RR	X	120 *	106 *	20.4	54	2	118	* 76 *	177	109 *								
Dairyland	Stealth 7191	GX	123 *	103 *	20.8	53	12	102	* 63	209	* 118 *								
NK Brand	N2555BT	KD	121 *	104 *	21.0	55	7	103	* 68	201	* 113 *	170	104	168 *	175	169	166	145 *	
Kaltenberg	K2515RRBt	XX	111	98	21.2	54	13	74	79 *	180	111 *								
Brunner	S2823RRBt	GX	109	96	21.2	54	16	97	* 58	182	100								
Carharts Blue Top	CR840RB	GX	113	99	21.4	53	16	105	* 69	172	106								
Dairyland	Stealth 1089Bt	G	113	98	21.4	53	9	66	76 *	203	* 106	165	102	150	168	183	156	139 *	
90-DAY HYBRID TRIAL AVERAGE##			22.0																
Ragt Semences	PG002		112	100 *	22.2	56	8	79	81 *	179	108 *	157	100	178 *	142	158	146	134 *	
Brunner	S2852RRBt	GX	109	95	22.3	52	16	74	66	187	109 *								
Carharts Blue Top	CR8500RB	GX	113	98	22.3	53	9	87	65	200	* 101	161	101	133	172	175	164	137 *	
Pioneer	38P04	L	115	99	22.9	52	9	87	66	201	* 109 *								
Kaltenberg	K2727Bt	X	111	96	23.4	52	9	51	70	199	* 122 *	174	106 *	157	182 *	196 *	160	142 *	
Carharts Blue Top	CR1857RB	GX	122 *	103 *	23.5	53	9	82	80 *	199	* 127 *								
Renk	RK438YGCB	G	132 *	107 *	23.6	53	13	117	* 80 *	203	* 127 *								
NK Brand	N29A2	GD	124 *	104 *	23.8	52	5	105	* 78 *	210	* 104								
Brown	4250YGCB	G	110	93	25.6	51	18	79	53	183	124 *								
MEAN			113	100	20.9	54	9	88	70	187	108	155	100	145	160	158	157	138	
LSD(0.10)**			12	7	1.7	1	9	30	11	17	19	17	6	15	20	24	18	11	

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603); M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

P.I. = Performance Index, evaluates hybrids by combining yield, moisture, and lodged % at a 50(yield) : 35(moisture) : 15(lodged) ratio.

Average grain moisture of all hybrids in this trial as rated by the Minnesota Relative Maturity Rating System. 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. Southern Zone - Early Maturity Silage Trial.

105 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (ARLINGTON = ARL, LANCASTER = LAN)

BRAND	HYBRID	Genes [†]	2003											2002				2 Year Average Yield T/A			
			AVERAGE											AVERAGE			ARL		LAN		
			Yield T/A	MILK PER TON ACRE		Kernel									Yield T/A	Yield T/A	Yield T/A		Yield T/A		
Renk	RK772YGCB	G	8.2	3250	26500	47.5	40	7.4	25	48	82	61	35	8.2 *	8.1						
Crows	2192B	G	8.5	3300	28200	53.5	40	7.5	26	49	81	62	32	7.9	9.2 *						
NK Brand	N48V8	KD	9.0	3000	27800	54.4	40	6.7	31	58	77	60	25	8.1 *	9.8 *	9.8 *	3510	34500 *	10.6 *	9.1 *	9.4 *
Cornelius	C430YG	G	8.8	3400 *	29900	55.9	40	7.5	24	46	82	62	36	8.8 *	8.8						
105-DAY HYBRID TRIAL AVERAGE##						56.2															
Hyland Seeds	HLS058		8.5	3340	28300	56.4	70	6.9	26	50	81	62	30	8.3 *	8.6						
Hyland Seeds	HLS067		8.8	3410 *	29900	56.5	70	7.4	26	50	82	64	30	7.8	9.7 *						
NK Brand	NX4942		8.1	3340	27000	56.9	50	7.8	27	51	81	63	30	9.2 *	7.0						
LG Seeds	LG2526SP		8.6	3310	28500	57.3	40	7.0	27	51	81	61	31	8.5 *	8.8	8.5 *	3640 *	30800 *	8.7	8.2 *	8.6 *
MEAN			8.6	3290	28300	54.8	50	7.3	26	50	81	62	31	8.3	8.8	8.3	3520	29300	8.3	8.3	9.0
LSD(0.10)**			NS	50	NS	3.9	20	0.5	2	3	1	1	3	1.2	0.9	1.4	70	5100	1.7	1.6	1.1

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603);

M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

Average whole plant moisture of all hybrids in the trial as rated by the Minnesota Relative Maturity Rating System. 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 12. Southern Zone - Late Maturity Silage Trial. (Page 1 of 2)

106 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (ARLINGTON = ARL, LANCASTER = LAN)

BRAND	HYBRID	Genes [†]	2003											2002				2 Year Average Yield T/A				
			AVERAGE											AVERAGE								
			Yield T/A	MILK PER		Moist %	Kernel							Yield T/A	Yield T/A	Yield T/A	Yield T/A					
TON	ACRE	Milk %		CP %	ADF %		NDF %	IVD %	NDFD %	Starch %												
Cornelius	C590YG	G	9.6 *	3380	32400 *	55.0	40	7.2	26	50	82	64	32	9.6 *	9.5 *	10.3 *	3670	37600 *	9.8 *	10.7 *	9.9 *	
High Cycle	7796Rb	GJ	9.3 *	3470	32400 *	55.5	50	7.1	24	46	83	64	35	9.2 *	9.5 *							
Renk	RK845RRYGCB	GH	9.0 *	3150	28200	55.6	50	7.2	27	52	79	59	30	8.8	9.1 *							
Pioneer	34M95	G	9.5 *	3340	32000 *	56.1	70	6.8	27	51	81	63	30	10.0 *	9.0 *	10.7 *	3670	39400 *	10.7 *	10.8 *	10.1 *	
NK Brand	N65Y3	KD	9.6 *	3280	31400 *	56.1	50	6.4	27	51	80	62	31	9.7 *	9.4 *	9.9 *	3650	36100 *	11.2 *	8.6	9.7 *	
Garst	8530Bt	G	9.4 *	3360	32700 *	56.8	60	7.0	25	48	82	62	33	9.6 *	9.2 *							
Spangler	7558G	G	9.0 *	3320	30000	57.4	60	6.8	26	49	81	61	32	9.5 *	8.5	9.8 *	3620	35400 *	8.9	10.6 *	9.4 *	
Hyland Seeds	HLS072		9.5 *	3260	31000	57.5	50	7.1	27	51	80	60	29	9.4 *	9.7 *							
Dairyland	Stealth 1606		8.2	3400	27900	57.6	50	6.8	25	49	82	63	33	8.8	7.7							
Trelay	9012		9.0 *	3460	31200 *	57.9	60	6.9	25	48	82	63	33	9.2 *	8.9 *	7.8	3650	28400	6.9	8.6	8.4	
Brunner	S6408Bt	G	8.7	3410	29600	58.0	60	7.3	26	51	81	63	31	8.6	8.8 *							
OBrien	OB1113Bt	G	9.8 *	3480	34200 *	58.1	60	7.2	24	47	83	63	33	10.3 *	9.4 *							
Crows	4911B	G	8.8	3340	29500	58.1	60	7.4	26	50	81	61	32	9.0	8.6							
Kussmaul	RFS610	M	9.5 *	3330	31600 *	58.3	70	6.9	27	51	80	62	29	9.9 *	9.1 *							
Golden Harvest	H8662Bt	G	8.5	3360	28500	58.5	50	7.5	26	49	81	61	33	9.4 *	7.7	10.0 *	3570	35600 *	9.8 *	10.1 *	9.2 *	
Pioneer	34M93	L	9.4 *	3450	32400 *	58.7	70	7.1	26	51	82	64	32	9.9 *	8.9 *							
110-DAY HYBRID TRIAL AVERAGE##						58.8																
Cornelius	C635		8.6	3340	28600	58.8	50	7.3	27	52	80	62	29	9.2 *	7.9	9.2	3740	34600	10.0 *	8.5	8.9	
Pioneer	34B23		9.0 *	3550	32000 *	58.9	60	7.7	25	49	83	65	30	9.4 *	8.7	9.1	3580	32500	9.6	8.5	9.0	
LG Seeds	LG2585		8.6	3450	29800	59.0	60	7.3	25	49	82	63	32	9.6 *	7.6							
Dairyland	Stealth 1607		7.6	3560	27200	59.5	50	7.3	23	46	83	64	33	8.1	7.2							
High Cycle	7807Bt	G	9.0 *	3330	29900	59.7	50	7.4	28	53	80	62	28	9.0	9.0 *							
Cornelius	C707RRYG	GJ	9.6 *	3380	32600 *	59.7	70	7.0	27	51	81	62	30	9.9 *	9.4 *							
115-DAY HYBRID TRIAL AVERAGE##						59.8																
Kaltenberg	K8112LF	M	8.8	3380	29700	60.1	60	7.0	27	51	81	62	28	9.3 *	8.3							

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Table 12 (continued). Southern Zone - Late Maturity Silage Trial. (Page 2 of 2)

106 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (ARLINGTON = ARL, LANCASTER = LAN)

BRAND	HYBRID	Genes [†]	2003											2002				2 Year Average Yield T/A			
			AVERAGE											AVERAGE							
			Yield T/A	MILK PER		Moist %	Kernel								ARL Yield T/A	LAN Yield T/A	ARL Yield T/A		LAN Yield T/A		
TON	ACRE	Milk %		CP %	ADF %		NDF %	IVD %	NDFD %	Starch %											
Garst / Agripro	7850		8.7	3360	29400	61.4	60	7.3	27	51	80	61	30	8.5	8.9 *						
Carharts Blue Top	CX1080Bt	G	7.7	3350	25900	61.4	50	7.3	26	49	80	60	32	7.5	8.0						
Wisconsin	JC11		9.1 *	3460	31500 *	61.6	50	7.6	25	48	82	62	32	9.4 *	8.8 *						
Cornelius	C605YG	G	8.3	3460	28700	61.7	60	7.2	26	49	82	62	32	8.8	7.8						
Spangler	LFT61	M	8.9	3280	29200	61.9	70	7.0	29	54	79	62	24	9.1	8.6	9.9 *	3410	33700	9.9 *	9.9 *	9.4 *
Wisconsin	JC12		8.7	3440	30000	62.8	80	7.2	27	51	81	62	29	8.7	8.7						
Golden Harvest	H9247Bt	G	9.8 *	3480	34300 *	63.0	70	7.2	26	49	81	62	29	9.9 *	9.8 *						
Baldridge Hybrids	BH611A		6.6	3390	22300	64.4	70	8.5	27	52	80	62	23	6.7	6.5						
Mycogen	F697	B	8.4	3890 *	32700 *	64.8	60	7.7	25	49	86	72	30	8.7	8.1						
Pioneer	33J57	G	9.1 *	3480	31700 *	65.5	70	7.7	27	51	81	63	26	9.1	9.1 *						
High Cycle	7748Bt	G	8.2	3230	26600	65.7	60	7.2	31	56	78	61	25	8.2	8.2						
Dairyland	Stealth 1416		7.4	3460	25200	67.2	70	7.8	28	52	81	63	27	6.8	7.9						
MEAN			8.8	3400	30100	59.8	60	7.2	26	50	81	63	30	9.1	8.6	8.9	3600	32000	9.0	8.8	9.3
LSD(0.10)**			0.8	150	3200	3.6	10	0.3	3	4	2	2	5	1.2	1.1	1.1	120	4700	1.5	1.1	0.9

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603); M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

Average whole plant moisture of all hybrids in the trial as rated by the Minnesota Relative Maturity Rating System. Ratings are rounded to 5 day increments.

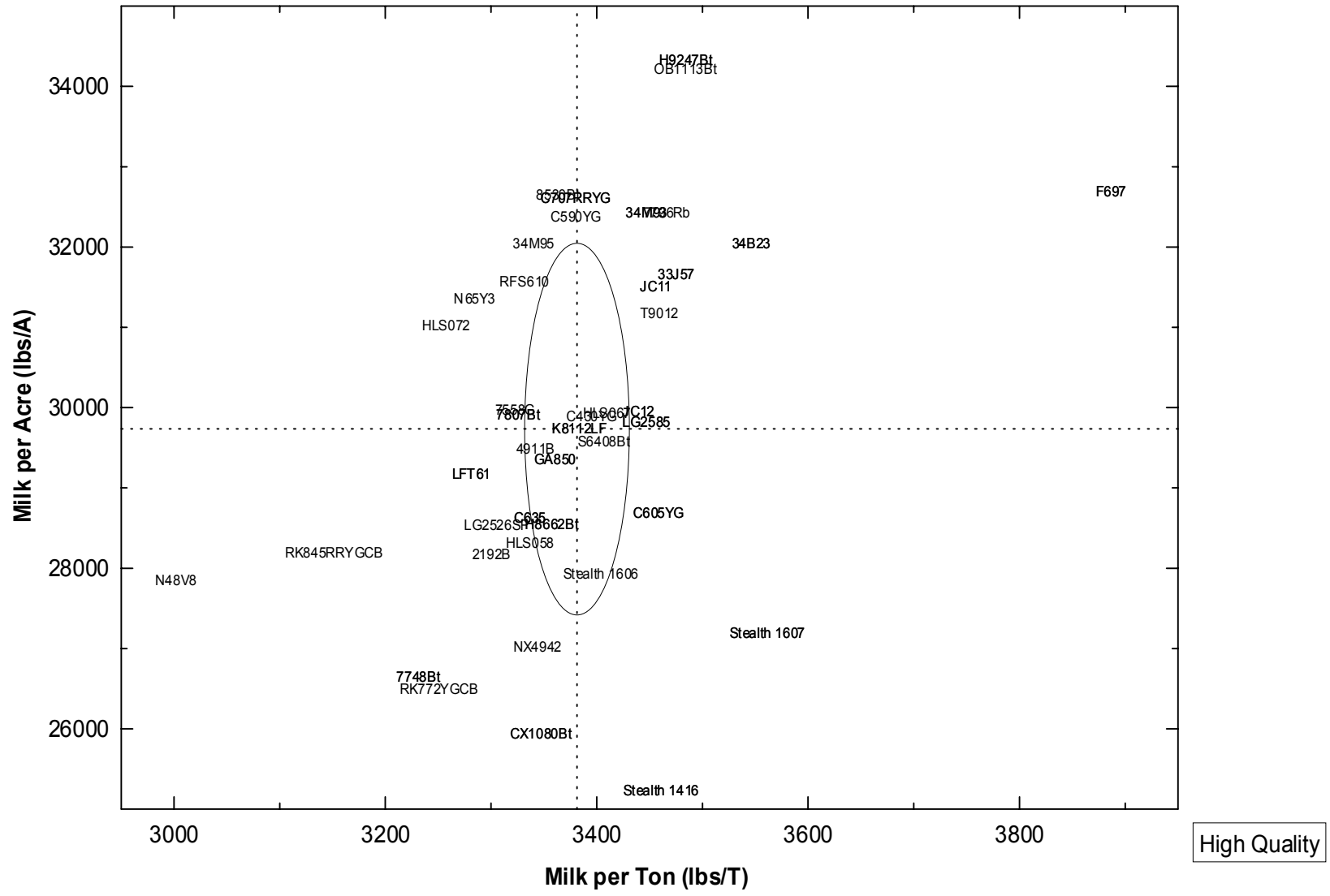
* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Relationship between Milk per Acre and Milk per Ton of corn hybrids in the Southern Zone during 2003.

High Yield

High Yield and Quality



High Quality

Table 13. South Central Zone - Early Maturity Silage Trial.

100 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (FOND DU LAC = FON, GALESVILLE = GAL)

BRAND	HYBRID	Genes [†]	2003											2002					2 Year Average Yield T/A		
			AVERAGE											AVERAGE							
			Yield T/A	MILK PER TON ACRE		Moist %	Kernel							FON Yield T/A	GAL Yield T/A	Yield T/A	FON Yield T/A	GAL Yield T/A			
Pilgrim Seed	Pilgrim Plus		8.6	3500 *	30200	57.1	30	7.1	24	46	84	64	38	7.8	9.4 *						
La Crosse Forage	LC4531		8.5	3380	28800	58.2	30	7.3	25	48	82	62	37	8.7 *	8.3						
Carharts Blue Top	CX1956Bt	G	8.2	3600 *	29500	60.4	40	6.7	24	45	84	64	39	7.6	8.8						
Dekalb	DKC5018(YGCB)	G	8.7	3640 *	31800 *	62.0	50	7.0	25	47	84	65	37	8.9 *	8.6						
Renk	RK622		8.3	3360	27900	62.2	50	6.9	28	52	80	62	32	8.2	8.4						
100-DAY HYBRID TRIAL AVERAGE##			62.4																		
Kusssmaul	RFS697	M	8.8	3590 *	31400	62.4	60	7.5	25	47	83	64	35	9.0 *	8.5						
Growmark	FS4042Bt	G	9.3 *	3430	32100 *	63.0	50	7.0	27	50	81	62	33	9.3 *	9.4 *	9.7 *	3400	33100 *	9.3 *	10.2 *	9.5
Dynagro	DG5288LFY	M	8.1	3520 *	28500	63.1	60	7.3	27	50	82	64	32	7.7	8.5						
NK Brand	N48V8	KD	10.0 *	3510 *	35200 *	63.2	60	6.5	28	52	81	65	29	9.8 *	10.2 *	10.7 *	3380	36100 *	10.2 *	11.1 *	10.3 *
La Crosse Forage	LC7415		7.6	3630 *	27800	65.2	60	7.7	25	47	83	64	34	7.1	8.1	8.8	3380	29900	8.3	9.3	8.2
Garst	8590IT	C	8.8	3550 *	30800	65.9	60	6.9	27	49	82	64	34	8.7 *	8.9						
NK Brand	NX4942		9.8 *	3570 *	34900 *	66.0	60	7.4	27	51	82	65	31	9.4 *	10.1 *						
MEAN			8.7	3520	30700	62.4	50	7.1	26	49	82	64	34	8.5	8.9	9.0	3380	30500	8.2	9.8	9.4
LSD(0.10)**			0.8	200	3600	3.0	10	0.5	3	4	3	2	5	1.2	1.1	1.2	NS	5800	1.0	1.4	0.4

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603); M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

Average whole plant moisture of all hybrids in the trial as rated by the Minnesota Relative Maturity Rating System. 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. South Central Zone - Late Maturity Silage Trial. (Page 1 of 2)

101 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (FOND DU LAC = FON, GALESVILLE = GAL)

BRAND	HYBRID	Genes [†]	2003											2002				2 Year Average Yield T/A				
			AVERAGE											AVERAGE								
			Yield T/A	MILK PER		Moist %	Kernel							FON Yield T/A	GAL Yield T/A	Yield T/A	MILK PER		Yield T/A	Yield T/A		
TON	ACRE	CP		ADF	NDF		IVD	NDFD	Starch	TON	ACRE											
Renk	RK636YGCB	G	8.0	3550	28400	62.8	60	6.7	26	49	83	64	35	7.1	8.8							
Renk	RK668		8.3	3340	27900	63.2	60	6.5	28	52	80	61	32	7.2	9.4	9.4	3190	30300	8.7	10.2	8.9 *	
Renk	RK772YGCB	G	8.1	3630	29400	63.8	70	6.8	26	48	83	65	35	7.9 *	8.4							
Kussmaul	RFS602	M	8.5 *	3560	30400 *	64.4	60	6.5	27	51	82	65	31	7.4	9.7 *							
Dekalb	DKC5334(RRYGCB)	GH	7.6	3540	26800	64.8	70	6.9	28	52	82	65	32	6.9	8.2	9.2	3470	31800	9.1	9.2	8.4	
Pioneer	35R58	G	7.9	3540	28200	65.4	70	6.8	28	52	82	65	29	6.9	9.0	10.1 *	3480	35400 *	10.1 *	10.2	9.0 *	
Garst	8579RR	H	9.1 *	3650	33400 *	65.5	60	6.7	26	48	83	66	35	8.5 *	9.8 *							
Midwest	G7494B	G	8.2	3390	28100	65.6	70	7.1	29	54	80	63	28	7.3	9.2							
Dekalb	DKC6019(RRYGCB)	GH	8.0	3550	28600	65.8	60	6.6	26	49	82	64	34	7.4	8.7	9.9	3470	34400 *	9.4 *	10.3	9.0 *	
Trelay	7012		8.6 *	3620	31300 *	66.2	70	7.5	27	50	83	66	32	8.2 *	9.1	9.2	3360	31200	8.4	10.1	8.9 *	
Kaltenberg	K8110LF	M	9.0 *	3530	31700 *	66.4	80	7.1	28	53	82	66	28	8.1 *	9.8 *							
Asgrow	RX499YG	G	7.5	3530	26400	66.5	60	7.6	28	51	82	65	30	7.1	7.9							
Golden Harvest	H7900		8.3	3560	29400	66.5	60	6.8	27	50	82	64	33	8.0 *	8.5							
Crows	3520B	G	8.2	3390	27900	66.9	70	6.6	29	54	80	63	27	7.3	9.1							
105-DAY HYBRID TRIAL AVERAGE##						67.0																
High Cycle	7698Rb	GJ	8.7 *	3540	30900 *	67.2	70	6.9	27	51	82	65	31	8.0 *	9.4							
100-DAY HYBRID TRIAL AVERAGE##						67.2																
La Crosse Forage	LC7374		6.3	3730	23600	67.3	70	7.8	24	46	84	66	34	5.4	7.2							
Dynagro	DG5440		8.0	3690	29400	67.4	60	6.2	26	48	84	66	34	7.0	8.9							
Midwest	G7221B	G	8.4 *	3420	28800	67.5	60	7.0	29	53	80	63	29	8.3 *	8.5							
Johnson Seeds	5450		7.6	3590	27000	67.5	60	7.1	26	49	83	65	33	7.0	8.1	8.2	3340	27600	7.9	8.6	7.9	
NK Brand	N59Q9		8.3	3580	29700 *	67.5	70	6.8	26	49	82	65	32	8.1 *	8.4	10.2 *	3530 *	36000 *	9.6 *	10.8 *	9.2 *	
Pioneer	34M93	L	9.1 *	3620	33200 *	67.6	80	6.9	28	53	83	67	30	8.9 *	9.3							
Hyland Seeds	HLS067		8.7 *	3690	32200 *	67.7	80	7.3	26	50	84	67	31	7.9 *	9.5 *							
OBrien	OBX1064RRBt	H	7.7	3590	27700	67.8	70	7.0	26	48	83	64	35	7.6	7.8							

CONTINUED.

Table 14 (continued). South Central Zone - Late Maturity Silage Trial. (Page 2 of 2)

101 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (FOND DU LAC = FON, GALESVILLE = GAL)

BRAND	HYBRID	Genes [†]	2003											2002				2 Year Average Yield T/A				
			AVERAGE											AVERAGE								
			Yield T/A	MILK PER TON ACRE		Moist %	Kernel					FON Yield T/A	GAL Yield T/A	Yield T/A	FON Yield T/A	GAL Yield T/A						
Growmark	FS4322		7.7	3630	28000	67.8	60	6.7	26	49	83	66	33	7.5	7.9							
Pioneer	35D45		7.9	3530	27900	67.9	70	7.9	27	51	82	64	30	7.2	8.5	10.1 *	3400	34500 *	9.3 *	10.9 *	9.0 *	
Carharts Blue Top	CX1080Bt	G	7.2	3410	24500	68.0	70	7.2	28	51	80	62	28	5.9	8.4							
Golden Harvest	H8350Bt	G	8.2	3570	29600 *	68.1	70	6.9	27	50	82	65	32	7.1	9.3							
Midwest	G7622B	G	9.0 *	3600	32300 *	68.2	90	6.9	28	52	82	66	30	8.2 *	9.9 *							
Growmark	FS6533Bt	G	9.0 *	3470	31100 *	69.1	80	7.1	28	53	81	64	28	7.5	10.5 *							
Garst	8510YG1RR	GH	8.5 *	3520	29700 *	69.4	70	6.7	27	51	82	64	30	7.7	9.3							
Wisconsin	JC13		7.1	3410	24600	69.4	80	7.4	30	56	80	65	24	5.5	8.8							
110-DAY HYBRID TRIAL AVERAGE##						69.5																
High Cycle	7644Bt	G	7.8	3480	27300	69.7	70	7.4	28	52	81	64	27	7.6	8.1							
Hyland Seeds	HLS058		7.9	3550	29300	70.1	80	6.8	28	51	82	65	28	7.3	8.6							
LG Seeds	LG2518		7.6	3610	27500	70.2	70	7.4	27	50	83	66	32	7.8	7.4							
Spangler	LFT50	M	8.0	3540	28200	70.3	80	6.9	28	52	82	65	25	7.5	8.4							
Midwest	G7716B	G	8.6 *	3560	30900 *	70.4	80	7.5	28	52	82	65	29	7.9 *	9.4							
Croplan Genetics	DS107RR	H	7.8	3530	27700	70.7	80	6.8	29	54	82	66	26	7.0	8.7							
Wisconsin	JC14		7.6	3530	26800	70.8	60	6.9	30	55	82	67	27	6.6	8.5							
Baldridge Hybrids	BH515		6.4	3200	20400	71.4	70	8.6	31	56	78	61	22	6.0	6.7							
Pioneer	33J57	G	9.4 *	3520	33200 *	71.6	80	6.9	28	53	82	65	26	8.4 *	10.5 *							
High Cycle	7748Bt	G	8.0	3330	25800	72.2	70	6.6	32	57	79	63	25	7.2	8.7							
Garst	24X		7.4	3590	26500	73.5	70	7.8	29	53	82	67	26	7.7	7.1	9.2	3420	31600	8.7	9.8	8.3	
Mycogen	F697	B	7.0	4050 *	28400	74.3	80	7.5	28	55	88	77	21	7.1	7.0							
MEAN			8.1	3550	28600	68.0	70	7.0	28	52	82	65	30	7.4	8.7	9.5	3390	32100	8.9	10.0	8.7	
LSD(0.10)**			1.0	180	3900	1.7	10	0.6	2	3	2	3	4	1.0	1.0	1.0	210	4800	1.3	1.4	0.7	

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603);

M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

Average whole plant moisture of all hybrids in the trial as rated by the Minnesota Relative Maturity Rating System. 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. North Central Zone - Early Maturity Silage Trial.

90 DAY RELATIVE MATURITY OR EARLIER, BASED ON COMPANY RATING (CHIPPEWA FALLS = CHP, MARSHFIELD = MAR, VALDERS =VAL)

BRAND	HYBRID	Genes [†]	2003											2002					2 Year Average Yield T/A				
			AVERAGE											AVERAGE									
			Yield T/A	MILK PER		Kernel									Yield T/A	Yield T/A	Yield T/A	Yield T/A		Yield T/A			
TON	ACRE	Moist %		Milk %	CP %	ADF %	NDF %	IVD %	NDFD %	Starch %	CHP Yield T/A	MAR Yield T/A	VAL Yield T/A										
Garst	8959YG1	G	6.7	3450	23200 *	53.1	40	7.8	23	47	84	65	35	7.0 *	5.3	7.9							
Croplan Genetics	294Bt	G	7.6 *	3380	25800 *	53.3	50	7.3	25	49	83	65	34	7.2 *	6.8 *	8.8 *							
Carharts Blue Top	CR85RR	J	6.5	3330	21800	54.0	50	7.6	26	51	82	64	32	6.5	5.7	7.3							
Carharts Blue Top	CR8500RB	GX	6.9	3440	23800 *	55.7	60	7.3	25	50	83	66	32	6.5	5.6	8.7 *	7.4 *	3570 *	26200 *	8.2 *	8.7 *	5.2 *	7.2
Garst	8865		7.4 *	3260	24200 *	55.9	50	7.2	28	53	80	64	29	7.1 *	6.1 *	8.9 *							
90-DAY HYBRID TRIAL AVERAGE##						56.7																	
Johnson Seeds	5150		6.9	3380	23200 *	56.9	60	7.8	25	50	82	64	32	6.6 *	6.3 *	7.9							
Carharts Blue Top	CR1857RB	GX	7.1 *	3600 *	25500 *	57.4	60	7.4	24	48	85	69	34	7.3 *	5.5	8.4 *							
Hyland Seeds	HLS034		7.2 *	3370	24500 *	58.5	60	7.6	28	53	81	65	27	7.1 *	6.7 *	8.4 *							
Hyland Seeds	HLS041		7.1 *	3560 *	25500 *	60.3	60	7.6	26	50	83	67	30	6.4	6.0	8.9 *							
Dekalb	DKC3948(RRYGCB)	GH	6.9	3620 *	25000 *	61.1	60	7.3	25	49	84	68	32	7.1 *	5.3	8.1 *							
MEAN			7.0	3440	24200	56.6	60	7.5	26	50	83	66	32	6.9	5.9	8.3	6.7	3550	23500	7.4	7.6	5.0	7.2
LSD(0.10)**			0.5	150	2600	2.6	10	0.3	3	4	2	2	5	0.7	0.7	0.9	0.7	110	2700	0.9	1.5	0.9	

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603);

M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

Average whole plant moisture of all hybrids in the trial as rated by the Minnesota Relative Maturity Rating System. 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 16. North Central Zone - Late Maturity Silage Trial. (Page 1 of 2)

91 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (CHIPPEWA FALLS = CHP, MARSHFIELD = MAR, VALDERS =VAL)

BRAND	HYBRID	Genes [†]	2003											2002						2 Year Average			
			AVERAGE											AVERAGE									
			Yield T/A	MILK PER TON ACRE		Kernel									Yield T/A	Yield T/A	Yield T/A	Yield T/A	Yield T/A		Yield T/A		
Pioneer	38T28	G	7.0	3360	23700	53.9	40	7.4	26	51	82	65	31	6.9	6.7 *	7.5	7.4	3540	26000	8.1	8.0 *	6.0	7.2
Golden Harvest	H2387		7.3 *	3300	23900	54.0	40	7.8	26	51	81	63	31	8.2 *	6.4 *	7.1							
Midwest	G6956		7.0	3380	23700	54.9	50	7.5	27	53	82	65	30	6.5	6.7 *	7.7							
Golden Harvest	H7108		6.9	3390	23400	55.1	50	8.1	26	50	82	65	31	7.1 *	6.1	7.4							
Dekalb	DKC4446(RRYGCB)	GH	7.3 *	3500	25600	55.1	50	7.2	25	50	83	67	33	7.0	6.5 *	8.3 *	7.9 *	3700 *	29000 *	8.6 *	8.6 *	6.3	7.6 *
LG Seeds	LG2415		7.0	3390	23700	55.7	60	8.0	27	52	82	65	29	6.9	6.5 *	7.6							
NK Brand	N45T5		7.1	3460	24700	55.7	50	7.1	26	52	83	66	31	7.2 *	6.4 *	7.7	7.8 *	3530	27700 *	8.3	8.0 *	7.3 *	7.5 *
Renk	RK668		7.3 *	3170	23600	56.4	50	7.2	29	55	79	62	27	7.0	6.4 *	8.4 *							
La Crosse Forage	LC7333		6.3	3380	21200	56.8	50	7.8	26	52	82	65	29	6.6	5.5	6.8							
95-DAY HYBRID TRIAL AVERAGE##						57.3																	
La Crosse Forage	LC7383		7.1	3410	24300	57.4	60	7.3	26	51	82	66	30	7.1 *	6.1	8.1 *							
La Crosse Forage	LC7415		6.4	3300	21300	57.5	60	7.9	27	51	81	63	29	6.4	6.0	6.9	6.9	3670 *	25000	8.1	7.8 *	4.7	6.7
Dekalb	DKC5334(RRYGCB)	GH	7.1	3490	24900	57.8	60	7.4	27	52	83	67	30	6.9	6.5 *	7.9	7.8 *	3700 *	28800 *	8.7 *	8.1 *	6.5	7.4 *
Golden Harvest	H7140Bt	G	7.2	3370	24100	57.9	60	8.1	27	51	81	64	30	7.3 *	6.4 *	7.8							
Golden Harvest	H6775Bt	G	6.9	3440	23700	58.6	50	8.1	25	50	82	64	30	7.1 *	5.8	7.9	7.6 *	3550	27000	8.9 *	8.2 *	5.8	7.3
90-DAY HYBRID TRIAL AVERAGE##						58.6																	
Dairyland	HiDF3300		6.6	3540 *	24400	58.7	40	7.4	25	50	84	67	32	7.0	5.9	7.2							
100-DAY HYBRID TRIAL AVERAGE##						58.9																	
Dairyland	HiDF3600		6.7	3400	22700	58.9	60	7.8	28	54	81	66	27	6.8	5.5	7.8							
Spangler	LFT31	M	7.2	3360	24300	59.0	70	7.6	27	53	81	65	28	7.4 *	6.2	8.1 *							
Carharts Blue Top	CX1956Bt	G	7.3 *	3590 *	26300 *	59.1	60	7.2	26	50	84	68	32	7.3 *	6.3	8.4 *							
Pioneer	37R71	G	7.0	3450	24200	59.1	50	7.5	26	50	82	65	32	6.6	6.3	8.1 *	7.6 *	3620	27600 *	8.6 *	7.9 *	6.3	7.3
NK Brand	N33H6		7.8 *	3370	26300 *	59.5	60	7.7	27	52	81	63	29	7.9 *	7.2 *	8.5 *	7.7 *	3390	25900	8.8 *	8.6 *	5.7	7.8 *
Pioneer	37D03		7.0	3500	24700	59.5	60	7.6	26	50	83	66	32	7.1 *	6.3	7.8	7.4	3610	26500	8.5 *	8.6 *	5.0	7.2
Renk	RK556		7.5 *	3450	26000 *	59.5	60	7.8	26	50	82	64	31	7.6 *	6.6 *	8.3 *	7.6 *	3430	25800	8.2	8.2 *	6.3	7.5 *

CONTINUED.

Table 16 (continued). North Central Zone - Late Maturity Silage Trial. (Page 2 of 2)

91 DAY RELATIVE MATURITY OR LATER, BASED ON COMPANY RATING (CHIPPEWA FALLS = CHP, MARSHFIELD = MAR, VALDERS =VAL)

BRAND	HYBRID	Genes [†]	2003										2002			2 Year Average							
			AVERAGE										AVERAGE										
			Yield T/A	MILK PER TON ACRE		Moist %	Kernel Milk %	CP %	ADF %	NDF %	IVD %	NDFD %	Starch %	CHP Yield T/A	MAR Yield T/A		VAL Yield T/A	Yield T/A	Yield T/A	Yield T/A	Yield T/A		
Golden Harvest	H7287		7.2	3410	24700	59.7	60	7.6	27	52	81	64	29	6.8	5.9	8.9 *							
Dairyland	DST10427		6.2	3460	21700	59.9	50	8.1	26	51	82	65	29	6.4	4.7	7.6							
Kussmaul	RFS690	M	7.1	3500	25400	60.0	70	7.4	26	51	83	66	30	7.2 *	5.9	8.4 *							
Dekalb	DKC4295(RRYGCB)	GH	6.9	3510 *	24500	60.4	60	7.4	26	51	83	66	31	6.7	5.8	8.3 *							
Dairyland	HIDF4200		7.7 *	3620 *	28100 *	61.1	80	7.5	26	50	84	68	30	7.5 *	7.3 *	8.5 *	7.1	3770 *	26800	8.4	8.7 *	4.4	7.4 *
Garst	8779		6.9	3440	23600	61.2	60	7.5	28	52	82	65	28	7.3 *	5.4	7.9	7.5	3590	27600 *	7.6	9.0 *	6.0	7.2
105-DAY HYBRID TRIAL AVERAGE##						61.2																	
Pioneer	36N71	G	7.6 *	3490	26600 *	61.3	60	7.7	27	52	82	66	29	7.5 *	6.2	9.0 *							
Renk	RK488YGCB	G	7.2	3560 *	25900 *	61.4	50	7.2	26	50	83	66	31	7.6 *	6.2	8.1 *							
Renk	RK636YGCB	G	7.2	3520 *	25600	61.5	70	7.3	26	51	83	66	30	7.4 *	6.1	8.1 *							
Pioneer	35D45		7.6 *	3550 *	27200 *	61.9	70	8.0	26	51	83	67	28	7.9 *	6.5 *	8.4 *	8.3 *	3640	30000 *	9.1 *	8.9 *	6.8 *	7.9 *
NK Brand	N48V8	KD	7.3 *	3420	24900	61.9	70	7.4	29	55	81	66	24	7.5 *	6.2	8.1 *	7.8 *	3470	27000	8.4	8.8 *	6.1	7.5 *
Dekalb	DKC5018(YGCB)	G	7.1	3590 *	25800 *	62.0	60	7.5	26	50	83	67	31	7.0	6.2	8.4 *							
Croplan Genetics	DS107RR	H	7.0	3490	24600	66.2	80	7.5	29	55	81	66	22	6.6	5.8	8.6 *							
MEAN			7.1	3440	24600	58.8	60	7.6	27	51	82	65	30	7.1	6.2	8.0	7.4	3580	26600	8.3	8.2	5.8	7.4
LSD(0.10)**			0.5	110	2300	3.6	10	0.3	2	2	1	1	2	1.1	0.9	0.9	0.8	110	3100	1.2	1.3	1.1	0.5

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603);

M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

Average whole plant moisture of all hybrids in the trial as rated by the Minnesota Relative Maturity Rating System. 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. Northern Zone Silage Trial.

RHINELANDER = RHI, SPOONER-IRRIGATED = SPI, SPOONER-SILT LOAM = SPS

BRAND	HYBRID	Genes [†]	2003											2002					2 Year Average Yield T/A				
			AVERAGE											AVERAGE			RHI	SPI		SPS			
			Yield T/A	MILK PER TON ACRE		Moist %	Kernel Milk % CP % ADF % NDF %			IVD %	NDFD %	Starch %	RHI Yield T/A	SPI Yield T/A	SPS Yield T/A	Yield T/A	Yield T/A	Yield T/A					
NK Brand	N17R3	KD	6.7	3340	22600	58.4	40	8.1	26	50	81	63	31	5.5	8.9	5.7	7.1	3610	25500	6.3	7.7	7.7	7.0
Ragt Semences	MX027		7.1 *	3490	25100 *	60.3	40	7.3	27	51	82	66	30	5.8	9.6 *	6.0							
Golden Harvest	H6355		7.5 *	3490	26400 *	60.6	60	7.9	26	51	82	66	30	7.0 *	9.5 *	6.0	7.6	3620	27700	5.9	8.6 *	8.6 *	7.6 *
Ragt Semences	MX128		7.8 *	3520	27700 *	60.8	50	7.5	27	51	83	66	31	6.4 *	10.4 *	6.5 *							
Dairyland	Stealth 1280		6.1	3410	21000	61.2	50	7.5	27	52	81	65	29	5.4	7.8	5.1	7.7	3570	27500	6.2	8.8 *	9.0 *	7.0
85-DAY HYBRID TRIAL AVERAGE##			62.2																				
Dynagro	51N39		7.0 *	3330	23700	62.4	60	7.7	28	53	80	63	29	6.0 *	9.2	5.7							
Pioneer	38A25	G	7.6 *	3430	26400 *	62.6	60	7.3	28	53	82	65	29	6.0 *	10.4 *	6.5 *							
NK Brand	N2555BT	KD	7.3 *	3550	26100 *	62.7	50	7.6	25	48	83	65	33	6.7 *	7.8	7.4 *	8.1 *	3660 *	29700 *	7.8 *	7.5	9.4 *	7.8 *
Carharts Blue Top	CR85RR	J	6.8	3400	23200	63.0	60	7.3	28	54	81	65	27	5.6	8.1	6.5 *							
NK Brand	N29A2	GD	6.6	3500	23100	63.1	60	7.7	27	53	82	67	28	5.4	8.3	5.9							
Carharts Blue Top	CR8500RB	GX	7.1 *	3400	24700 *	63.2	60	7.5	28	55	81	65	27	5.2	10.3 *	5.9	7.7	3690 *	28500	7.3	8.0 *	7.5	7.4 *
Dairyland	Stealth 1287RR	J	6.9	3490	24100	63.2	50	7.6	26	52	82	65	31	5.9 *	9.3	5.5							
Pioneer	37F16	G	7.5 *	3410	26200 *	63.4	60	7.4	27	52	81	64	29	5.9 *	10.5 *	6.3							
90-DAY HYBRID TRIAL AVERAGE##			63.7																				
Pioneer	37D03		7.3 *	3480	25900 *	64.1	80	7.5	27	51	82	65	30	5.5	9.9 *	6.6 *	8.9 *	3690 *	32900 *	9.0 *	9.0 *	8.5	8.1 *
Carharts Blue Top	CX8500A		6.9	3510	24400	64.4	70	8.1	27	52	82	66	29	5.4	9.7 *	5.5	8.0	3690 *	29600 *	7.6 *	8.1 *	8.6 *	7.5 *
Renk	RK232YGCB	G	7.2 *	3460	25400 *	64.5	60	7.9	27	53	82	65	28	5.8	10.1 *	5.8							
Carharts Blue Top	CR1857RB	GX	7.3 *	3650 *	26700 *	64.7	70	7.4	26	50	84	68	31	5.7	9.7 *	6.4							
95-DAY HYBRID TRIAL AVERAGE##			64.9																				
Golden Harvest	H6675		6.8	3340	23200	65.2	60	7.7	29	55	80	63	26	5.3	9.8 *	5.4							
Hyland Seeds	HLS034		7.2 *	3410	24900 *	65.3	70	8.0	29	55	81	65	24	5.8	9.6 *	6.3							
Pioneer	37R71	G	7.3 *	3500	25900 *	65.4	60	7.5	27	52	82	65	29	5.6	9.6 *	6.8 *	8.3 *	3680 *	30500 *	8.0 *	8.0 *	8.7 *	7.8 *
100-DAY HYBRID TRIAL AVERAGE##			65.9																				
Kaltenberg	K2727Bt	X	6.9	3550	24900 *	65.9	60	7.7	28	54	82	67	27	5.6	9.4	5.8	7.9	3710 *	29500	6.9	8.5 *	8.4	7.4 *
Dairyland	Stealth 1297		7.6 *	3640 *	27800 *	66.2	60	7.9	26	50	83	67	29	6.3 *	10.9 *	5.7							
Renk	RK488YGCB	G	7.5 *	3590 *	27300 *	66.6	70	7.5	26	51	83	67	30	5.8	10.1 *	6.6 *							
Hyland Seeds	HLS041		6.9	3720 *	26000 *	67.0	80	7.8	26	51	84	69	28	6.0 *	9.1	5.7							
NK Brand	N33H6		7.7 *	3350	26100 *	67.8	80	7.7	29	54	80	63	24	5.9 *	10.9 *	6.1							
MEAN			7.1	3480	25200	63.7	60	7.6	27	52	82	65	29	5.8	9.6	6.1	7.8	3660	28700	7.0	8.3	8.3	7.5
LSD(0.10)**			0.8	140	3100	2.5	10	0.4	2	2	2	2	3	1.1	1.4	0.9	0.8	90	3300	1.4	1.1	1.1	0.7

[†] Code = Trait(Gene): B=bmr(bm3); C=IMI(IT); D=LL(T25); F,G,K,L=Bt-ECB(Bt176, Mon810, Bt11, Cry1F); H,J=RR(MonGA21, Nk603);

M=Leafy; N=Bt-CRW(Mon863); X=Unknown; respectively.

Average whole plant moisture of all hybrids in the trial as rated by the Minnesota Relative Maturity Rating System. Ratings are rounded to 5 day increments.

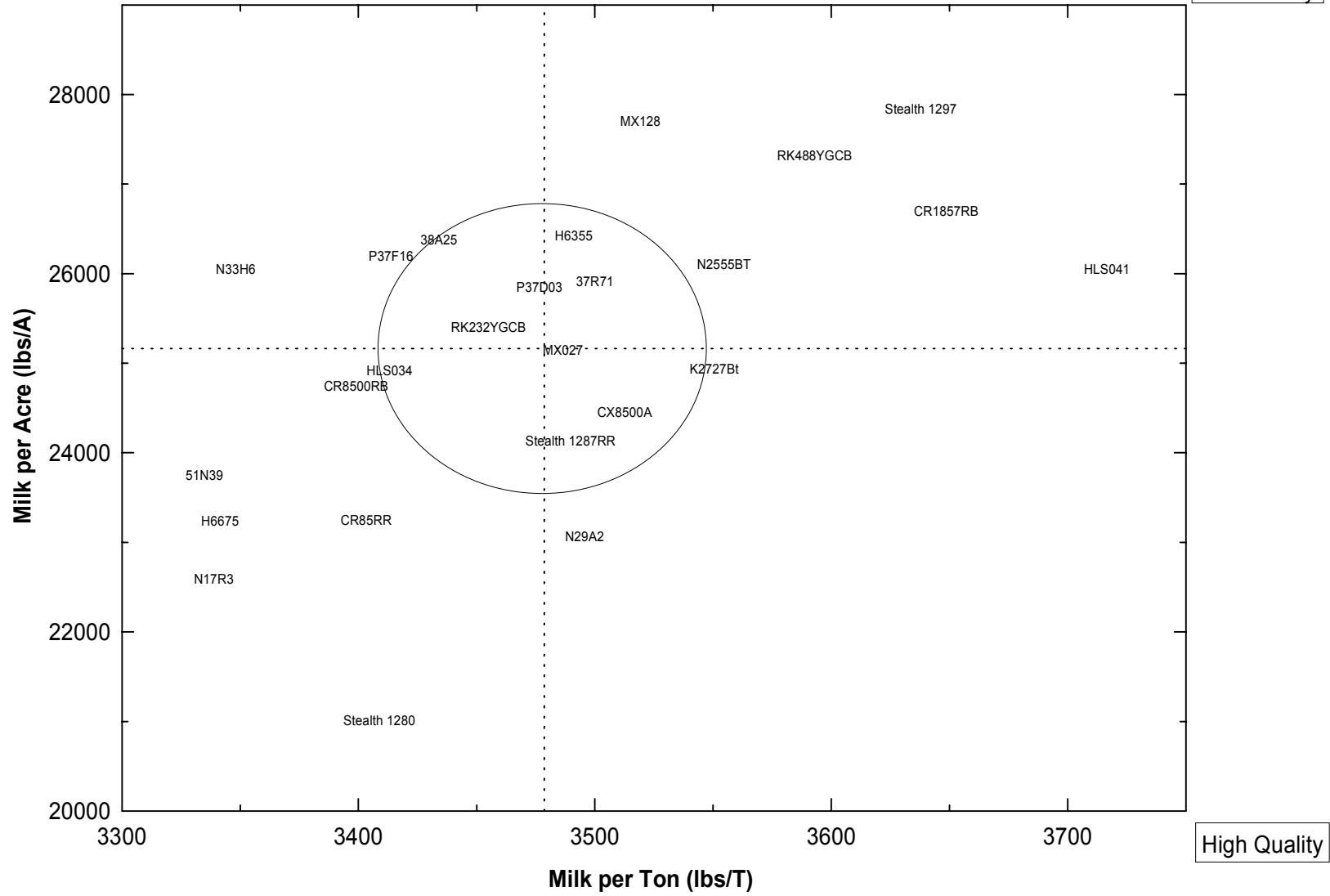
* Hybrids that performed statistically similar to the highest hybrid in the trial.

Shaded results provide the best estimate of relative hybrid performance.

Relationship between Milk per Acre and Milk per Ton of corn hybrids in the Northern Zone during 2003.

High Yield

High Yield and Quality



List of hybrids previously tested in the Wisconsin Corn Performance Trials (1999-2002).

Brand Hybrid	Year tested	Brand Hybrid	Year tested	Brand Hybrid	Year tested	Brand Hybrid	Year tested
Adler 2400	02	Brown 5225	00	Carharts Blue Top CX51Bt	99	Dahlco X8931	99
		Brown 5288VPwx	01	Carharts Blue Top CX820Bt	02	Dahlco X94L	00
AgriGold A6215	02,01	Brown 5341	99	Carharts Blue Top CX8500A	02,01,00	Dahlco X9841	01,00
AgriGold A6257	01,00	Brown 5541	99	Carharts Blue Top CX8900A	01	Dahlco X9861	00
AgriGold A6269Bt	00	Brown 5740VPwx	01	Carharts Blue Top CX9500AA	01,99	Dahlco X9961	00
AgriGold A6315	02,01	Brown 5941RR	02	Carharts Blue Top CX9510RR	00	Dahlco X9963	01,00
AgriGold A6333	02,01	Brown 5969RR	01	Carharts Blue Top CXP1500	00		
AgriGold A6333Bt	02,01	Brown 6079	02,01			Dahlman 1488	02,01,00,99
AgriGold A6365	01,00	Brown 6220	02	Cornelius C311RR	01	Dahlman 1599	99
AgriGold A6382	02,01,00	Brown 6341	00	Cornelius C336X	99	Dahlman 1699	02,01,00,99
AgriGold A6390	00	Brown 6341VPwx	01	Cornelius C369YG	00	Dahlman D4210Bt	02
AgriGold A6391	02,01	Brown 6574	00	Cornelius C371	99	Dahlman D4301	02,01
AgriGold A6395	02	Brown 6850	00,99	Cornelius C377YG	01	Dahlman D4501	01,00
AgriGold A6427	00	Brown 6895YGCb	02,01	Cornelius C391	00	Dahlman D4501Bt	02
AgriGold A6428	00	Brown 6950	99	Cornelius C407	02,01	Dahlman D4515	02
AgriGold A6445	01	Brown 6990ND	00	Cornelius C408YG	01,00	Dahlman D4801	02
AgriGold A6469Bt	00	Brown 7041	00,99	Cornelius C439	99	Dahlman D5001	01
AgriGold XA4112	01	Brown 7044	02,01	Cornelius C443	01,99	Dahlman D5101	00
AgriGold XA5000	00	Brown 7050	99	Cornelius C489RR	02	Dahlman D5102Bt	02,01
AgriGold XA5014Bt	02			Cornelius C507	01,00,99	Dahlman R1700	02
AgriGold XA6016	02	Brunner B2495	02,01	Cornelius C509RR	02	Dahlman R1720	02
AgriGold XA6106	02	Brunner B3901	01	Cornelius C518	00	Dahlman R1730Bt	00
AgriGold XA6117	02	Brunner EXP100	01	Cornelius C521	99		
AgriGold XA6923	00	Brunner EXP102	00	Cornelius C548	99	Dairyland DST10067Bt	02
		Brunner EXP102RRBt	02	Cornelius C578YG	00	Dairyland DST10106	99
AgriPro 8715	02	Brunner EXP103	01	Cornelius C588YG	02	Dairyland DST10212	00,99
AgriPro 8888	02,01	Brunner EXP104	00	Cornelius C590YG	02,01	Dairyland DST10220	01
AgriPro AP8830	00	Brunner EXP84	00,99	Cornelius C597YG	00	Dairyland DST10408	99
AgriPro AP9170	00	Brunner EXP95	01	Cornelius C600RR	01,00,99	Dairyland DST10419	02
AgriPro AP9272	99	Brunner EXP96	99	Cornelius C635	02	Dairyland DST7517	99
AgriPro AP9280	00	Brunner Exp85Bt	00	Cornelius C644RR	02	Dairyland DST9209	01
AgriPro AP9313	00,99	Brunner S2055RR	01			Dairyland HiDF3300	02,01
AgriPro AP9355Bt	99	Brunner S2130RR	02	Croplan Genetics 294	02	Dairyland HiDF3600	02
AgriPro AP9401IMI	99	Brunner S2495	00	Croplan Genetics 344Bt	02	Dairyland HiDF4200	02,01
AgriPro AP9466	00	Brunner S2815	99	Croplan Genetics 364	01	Dairyland Stealth 1005Bt	02
AgriPro AP9511IMI	00,99	Brunner S2851RR	02,01	Croplan Genetics 402IMI	99	Dairyland Stealth 1089	01
AgriPro AP9559Bt	00	Brunner S2852RRBt	02	Croplan Genetics 441	02,01	Dairyland Stealth 1089Bt	02,01,00
AgriPro AP9565	99	Brunner S3297	02,99	Croplan Genetics 503Bt	02,01	Dairyland Stealth 1099RRBt	02,01,00,99
AgriPro HY9646	00	Brunner S3721Bt	00	Croplan Genetics 516Bt	02	Dairyland Stealth 1183	99
		Brunner S3830	02,01	Croplan Genetics 562IMI	99	Dairyland Stealth 1199RR	02
Asgrow RX393YG	00	Brunner S3870RR	01			Dairyland Stealth 1203	01,00,99
Asgrow RX430	00	Brunner S4242	99	Crows 351	00	Dairyland Stealth 1275	99
Asgrow RX452YG	01,00	Brunner S4244Bt	02,00	Crows 3520B	02,01	Dairyland Stealth 1277	00
Asgrow RX508	01	Brunner S4709	00,99	Crows 438B	02,01	Dairyland Stealth 1280	02,01,00,99
Asgrow RX508YG	00	Brunner S4801E	02,01	Crows 4911B	00	Dairyland Stealth 1289	00,99
Asgrow RX592RR	01	Brunner S4868RR	00	Crows C217B	02,01,00	Dairyland Stealth 1297	02,01,00,99
Asgrow RX601RRYG	02,01	Brunner S5100	02,00,99	Crows C4908	01,00	Dairyland Stealth 1298Bt	00,99
Asgrow RX637	00	Brunner S5202	02	Crows C4908	02	Dairyland Stealth 1299Bt	00,99
Asgrow RX664	02	Brunner S5474	00,99			Dairyland Stealth 1401	99
Asgrow RX708	01	Brunner S5610RR	01	Dahlco 2075Bt	02	Dairyland Stealth 1402	00,99
Asgrow RX708YG	02	Brunner S6408Bt	02	Dahlco 2140	00,99	Dairyland Stealth 1403	99
Asgrow RX730RRYG	02			Dahlco 2140RR	01	Dairyland Stealth 1404	00,99
Asgrow RX738RR	01	Cargill 2411FQ	99	Dahlco 2145	02	Dairyland Stealth 1406	01,00,99
		Cargill 2610	99	Dahlco 2287	00,99	Dairyland Stealth 1410	02,01,00,99
Battleground 3195	02	Cargill 3631IMI	99	Dahlco 2288Bt	02	Dairyland Stealth 1412	00,99
Battleground 3203	02	Cargill 3711FQ	99	Dahlco 2289	02	Dairyland Stealth 1483RR	02
Battleground 3215	02	Cargill 4021Bt	00,99	Dahlco 2335	01	Dairyland Stealth 1485	01,00,99
Battleground 3245	02	Cargill 4111	01,00,99	Dahlco 2335Bt	02	Dairyland Stealth 1490	00
		Cargill 4220Bt	99	Dahlco 2336	00,99	Dairyland Stealth 1492	00
Bio Gene BG090A	01	Cargill 4521Bt	02,01,00,99	Dahlco 2394	00,99	Dairyland Stealth 1493	99
Bio Gene BG095A	01	Cargill 5212	99	Dahlco 2464	99	Dairyland Stealth 1494	02
Bio Gene BG1050	02	Cargill 6481FQ	99	Dahlco 2472	00,99	Dairyland Stealth 1496	02,01,00,99
Bio Gene BG1075	02	Cargill 6511FQ	99	Dahlco 2475	01,00,99	Dairyland Stealth 1496Bt	00
Bio Gene BG1092	02	Cargill 6888	99	Dahlco 2475Bt	02,00	Dairyland Stealth 1497	02
Bio Gene BT098	01	Cargill 7301FQ	99	Dahlco 2475RR	01,00	Dairyland Stealth 1498	00
Bio Gene BT103	01	Cargill 7511FQ	99	Dahlco 2480	01	Dairyland Stealth 1499	00,99
Bio Gene BT1071	02	Cargill F657	02,01	Dahlco 2482	02	Dairyland Stealth 1501	99
				Dahlco 2501	99	Dairyland Stealth 1502	02,01,00
Brown 1688	99	Carharts Blue Top CR102RB	02,01,00	Dahlco 2502	02,01,00	Dairyland Stealth 1503	02,01
Brown 1967	01,00,99	Carharts Blue Top CR840RB	02	Dahlco 2505	02	Dairyland Stealth 1504Bt	00,99
Brown 2041	99	Carharts Blue Top CR8500RB	02	Dahlco 2540	99	Dairyland Stealth 1507	01,00,99
Brown 2080	00	Carharts Blue Top CX1020Bt	02	Dahlco 2541RR	01	Dairyland Stealth 1507Bt	02,01
Brown 2733	02	Carharts Blue Top CX1055A	01	Dahlco 2660	02,01,00,99	Dairyland Stealth 1508	01,00,99
Brown 2835RR	02,01	Carharts Blue Top CX1056A	02,01,00	Dahlco 2680	01,00,99	Dairyland Stealth 1510	02
Brown 2900wx	01	Carharts Blue Top CX105A	00,99	Dahlco 348WX	99	Dairyland Stealth 1585	02,01,00
Brown 2P16	01	Carharts Blue Top CX1078Bt	02	Dahlco 5101WX	99	Dairyland Stealth 1592	02,01
Brown 3277	00	Carharts Blue Top CX1079A	01	Dahlco X0001	00	Dairyland Stealth 1596	00
Brown 3680	99	Carharts Blue Top CX1080A	02,01,00,99	Dahlco X0012	02,01	Dairyland Stealth 1598	02,01
Brown 3988	02	Carharts Blue Top CX1185A	01,00,99	Dahlco X0851	01	Dairyland Stealth 1602	02
Brown 3M36RR	01	Carharts Blue Top CX1187A	00,99	Dahlco X100L	01,00	Dairyland Stealth 1605	02,01
Brown 3P32	01	Carharts Blue Top CX1195A	00	Dahlco X1021Bt	02	Dairyland Stealth 1606	02,01,00
Brown 4440	02	Carharts Blue Top CX1200A	01,00,99	Dahlco X1903	02	Dairyland Stealth 1607	02,01
Brown 4555	02	Carharts Blue Top CX125A	00	Dahlco X1951Bt	02	Dairyland Stealth 1609	00
Brown 4630Bt	01	Carharts Blue Top CX130AA	01,00,99	Dahlco X2051	02	Dairyland Stealth 1611	02,01,00
Brown 4641	00,99	Carharts Blue Top CX184A	99	Dahlco X2101	02		
Brown 4680	02,99	Carharts Blue Top CX1956A	02	Dahlco X8053	99	Dekalb DK307	99
Brown 4680wx	01	Carharts Blue Top CX290A	02,01,00,99	Dahlco X8851	99	Dekalb DK325	01
Brown 4M60ND	00	Carharts Blue Top CX3100A	00	Dahlco X8891	00,99	Dekalb DK334BtY	01
Brown 5130	01	Carharts Blue Top CX50A	99	Dahlco X8892	99	Dekalb DK355	00

List of hybrids previously tested in the Wisconsin Corn Performance Trials (1999-2002).

Brand Hybrid	Year tested	Brand Hybrid	Year tested	Brand Hybrid	Year tested	Brand Hybrid	Year tested
Dekalb DK385B	99	Garst 8342GLSIT	01	Golden Harvest H8977Bt	01	Hughes 5600	02
Dekalb DK389BTY	99	Garst 8464	01,00,99	Golden Harvest H9229	00	Hughes 5602	99
Dekalb DK405	00,99	Garst 8464IT	02	Golden Harvest H9230Bt	01,00,99	Hughes 5906	00,99
Dekalb DK427	99	Garst 8523IT	02	Golden Harvest H9285Bt	02		
Dekalb DK440	00,99	Garst 8541IT	01			Hyland Seeds HL2240	01
Dekalb DK477	99	Garst 8541WX	02	Great Lakes 22Z15	02	Hyland Seeds HL2505	01
Dekalb DK493	00,99	Garst 8557RR	00	Great Lakes 4648	02	Hyland Seeds HL2507	01
Dekalb DK493BTX	99	Garst 8578IT	02	Great Lakes 4979	02	Hyland Seeds HL5034	01
Dekalb DK493RR	99	Garst 8585GLS/IT	00	Great Lakes 5555	02	Hyland Seeds HL5041	01
Dekalb DK507	00,99	Garst 8590IT	02,01,00,99	Great Lakes 5668	02	Hyland Seeds HL5067	01
Dekalb DK512WX	99	Garst 8608Bt	99	Great Lakes 5758	02		
Dekalb DK520RR	99	Garst 8640	00,99	Great Lakes 5961	02	Hytest 7400Bt	99
Dekalb DK525	99	Garst 8647	02,01			Hytest BH4531	99
Dekalb DK537	99	Garst 8707	01,00,99	Growmark FS1324	99	Hytest HT4199	99
Dekalb DK539	99	Garst 8779	02,01	Growmark FS1660	99	Hytest HT7345	99
Dekalb DK551BTY	99	Garst 8790Bt	01,00	Growmark FS1762	02	Hytest HT7415	99
Dekalb DK567	00,99	Garst 8801	01	Growmark FS1952	01		
Dekalb DK585	99	Garst 8802RR	02	Growmark FS2131	02,01,00	Jeske J16	00
Dekalb DK589BTY	99	Garst 8820	99	Growmark FS2140	99	Jeske SX224	02,01,00
Dekalb DK591	99	Garst 8830	00,99	Growmark FS3091	01,00		
Dekalb DK607RR	01	Garst 8894Bt	00	Growmark FS3382	01	Johnson Seeds 2120	02
Dekalb DK611	00	Garst 8946	02,01	Growmark FS3621	01,00	Johnson Seeds 2121	02
Dekalb DKC2675	00	Garst 8947RR	02	Growmark FS3858	99	Johnson Seeds 2150	02
Dekalb DKC2995	00	Garst 8956	00	Growmark FS3969	01,00,99	Johnson Seeds 2165	02,01
Dekalb DKC3308	01	Garst 8966	99	Growmark FS4042Bt	02	Johnson Seeds 2235	02,01
Dekalb DKC3551(RRYGCB)	02	Garst 8972IT	99	Growmark FS4121	00	Johnson Seeds 2235RR	01
Dekalb DKC3671	00	Garst 8975	01,00,99	Growmark FS4322	02,01	Johnson Seeds 2237RR	01
Dekalb DKC3781	02	Garst 8975IT	02	Growmark FS4453	02	Johnson Seeds 2241	02
Dekalb DKC3945	00	Garst 8992	01	Growmark FS4481	02,01,00	Johnson Seeds 2245RR	01
Dekalb DKC3947(RR)	02,01	Garst N9943	01	Growmark FS4882	01	Johnson Seeds 2255	02
Dekalb DKC4222	01,00			Growmark FS5221	01,00	Johnson Seeds 2275Bt	02
Dekalb DKC4442(YGCB)	02,01,00	Geertson GS1020	02,01	Growmark FS5308	01,00,99	Johnson Seeds 2277	02
Dekalb DKC4446(RRYGCB)	02	Geertson GS1049	01,00	Growmark FS5310Bt	99	Johnson Seeds 2287	02,01
Dekalb DKC4626	01,00	Geertson GS1061	02	Growmark FS5632	02,01	Johnson Seeds 5250	02
Dekalb DKC4628(RR)	02	Geertson GS1067	00	Growmark FS5983	02	Johnson Seeds 5350	02
Dekalb DKC4772	00	Geertson GS1099	01,00,99	Growmark FS6141	00	Johnson Seeds 5450	02,01
Dekalb DKC4815	02,01	Geertson GS1112	02	Growmark FS6432	02	Johnson Seeds 8350	01
Dekalb DKC4883	02,00	Geertson GS1117	01,00,99	Growmark FS6533Bt	02	Johnson Seeds 8555	02,01
Dekalb DKC4992	00	Geertson GS870	01	Growmark FS6576	99	Johnson Seeds 882	01
Dekalb DKC5073(RRYGCB)	02	Geertson GS889	00				
Dekalb DKC5143	02	Geertson GS929	00	Gutwein 2400	01,00,99	Jung 2178	01,00
Dekalb DKC5188	01	Geertson GS961	02	Gutwein 2444	01	Jung 2225	99
Dekalb DKC5332	01,00	Geertson GS998	01,00,99	Gutwein 2515	00	Jung 2233	00
Dekalb DKC5334(RRYGCB)	02					Jung 2240	00
Dekalb DKC5671	01	Gold Country 8521RRBt	02	Heartland Hybrids HX1114	99	Jung 2285	00,99
Dekalb DKC5740	01	Gold Country X60089	02	Heartland Hybrids HX2085	99	Jung 2370	01,00,99
Dekalb DKC5824(RRYGCB)	02	Gold Country X60094	02	Heartland Hybrids T-H289	99	Jung 2430	00,99
Dekalb DKC5852	01,00	Gold Country X62083Bt	02	Heartland Hybrids T-H295	99	Jung 2432	02,01
Dekalb DKC5878(YGCB)	02,01			Heartland Hybrids T-H301	99	Jung 2436	00,99
Dekalb DKC6009(RRYGCB)	02	Golden Harvest EX06085	00	Heartland Hybrids T-H305	99	Jung 2440WX	99
Dekalb DKC6017	02	Golden Harvest EX87	99			Jung 2455	00
Dekalb DKC6019(RRYGCB)	02	Golden Harvest EX8625Bt	99	High Cycle 7290Bt	02,01	Jung 2488	99
Dekalb DKC6411(RRYGCB)	02	Golden Harvest EX8661Bt	99	High Cycle 7419Bt	01,00	Jung 2488A	02,01,00,99
Dekalb W4055	99	Golden Harvest EX96401Bt	00	High Cycle 7495Rb	02	Jung 2497	02
Dekalb W4457	99	Golden Harvest EX96901IMI	99	High Cycle 7510Bt	02	Jung 2507	02,01
Dekalb W5555	99	Golden Harvest EX97153	00	High Cycle 7525Bt	02	Jung 2510A	99
		Golden Harvest EX97415Bt	00	High Cycle 7601Bt	02	Jung 2510B	00
		Golden Harvest H2274	99	High Cycle 7625RRBt	02	Jung 2561	99
Dynagro 5257	01	Golden Harvest H2309	00	High Cycle 7638Bt	02,00	Jung 2565	02,01,00
Dynagro 54K90	02	Golden Harvest H2315	00,99	High Cycle 7743Bt	02	Jung 2573	02,01
Dynagro 55K29	02	Golden Harvest H2387	02,01,00,99	High Cycle HC350	02,01,00	Jung 2579	99
Dynagro 55N37	02	Golden Harvest H2398	00,99	High Cycle HC490	02	Jung 2590	99
Dynagro 56K44	02	Golden Harvest H6093	02,01	High Cycle HC540	02,01,00	Jung 2612	01,00
Dynagro 57K14	02	Golden Harvest H6229	00,99	High Cycle HC560	02	Jung 2638	99
Dynagro CX02386	02	Golden Harvest H6355	02,01,00	High Cycle HC6762nE	99	Jung 2671	00
Dynagro DG5110	02	Golden Harvest H6573	01,00	High Cycle HC7529Bt	99	Jung 2674	01
Dynagro DG5110RR	02	Golden Harvest H6648Bt	02	High Cycle HC7734RR	99	Jung 2699	02
Dynagro DG5170	02	Golden Harvest H6675	02,01,00,99			Jung 2706	00
Dynagro DG5240RR	02	Golden Harvest H6775Bt	02,01,00	Hughes 1911	02	Jung 2710	01,00,99
Dynagro DG5295Bt	02	Golden Harvest H7076Bt	99	Hughes 2689	99	Jung 6205	02
Dynagro DG5324	02,01	Golden Harvest H7140Bt	02	Hughes 2760	00	Jung 6210RRBt	02,01
Dynagro DG5324Bt	02	Golden Harvest H7575IMI	99	Hughes 2927	00,99	Jung 6240Bt	01
Dynagro DG5440	02	Golden Harvest H7599	00,99	Hughes 2970	02,01	Jung 6320RR	01
Dynagro DG5467	02,01	Golden Harvest H7620Bt	99	Hughes 3030	01	Jung 6370	02
		Golden Harvest H7773Bt	01,00,99	Hughes 3198	99	Jung 6455Bt	02,01
Elk Mound Seed EMS1600	02	Golden Harvest H7798Bt	00,99	Hughes 3389	00,99	Jung 6540Bt	99
Elk Mound Seed EMS2565	02	Golden Harvest H7895	01,00	Hughes 3431	01	Jung 6555RR	01,99
Elk Mound Seed EMS3971	02	Golden Harvest H7900	02	Hughes 3432	02	Jung 6560RRBt	01
Elk Mound Seed EMS5455	02	Golden Harvest H7995Bt	02	Hughes 3799	02,01,00	Jung 6580	02,01
		Golden Harvest H8049IMI	99	Hughes 3830	00	Jung 6616Bt	99
Foundation Direct 8550	99	Golden Harvest H8067Bt	00	Hughes 4118	00,99	Jung 6700Bt	01
Foundation Direct 8700	99	Golden Harvest H8123	01	Hughes 4411	01	Jung 6710	02
Foundation Direct 8763	00	Golden Harvest H8223Bt	02	Hughes 4759	99		
Foundation Direct 8766	00,99	Golden Harvest H8250	02,01,00,99	Hughes 4762	02	Kaltenberg K2345	00
Foundation Direct 8804	00	Golden Harvest H8328IMI	99	Hughes 4770	99	Kaltenberg K2468	00
Foundation Direct FDSX101	01	Golden Harvest H8350Bt	01	Hughes 5121	01	Kaltenberg K2525Bt	01
Foundation Direct X202	02	Golden Harvest H8562	01,00,99	Hughes 5150	01,00	Kaltenberg K2727Bt	02
		Golden Harvest H8662Bt	02	Hughes 5551	02	Kaltenberg K2789	02,01
Garst / Agripro 9476Bt	02	Golden Harvest H8877	00	Hughes 5597	01,00,99	Kaltenberg K2909	00,99
Garst 24X	02,01						

List of hybrids previously tested in the Wisconsin Corn Performance Trials (1999-2002).

Brand Hybrid	Year tested	Brand Hybrid	Year tested	Brand Hybrid	Year tested	Brand Hybrid	Year tested
Kaltenberg K3303	02,01,00,99	Kussmaul K412	02,01	Mallard UC2679	02	NK Brand N65M7	02
Kaltenberg K3333Bt	00	Kussmaul K498	02	Mallard UC2680	99	NK Brand N65R5	99
Kaltenberg K3404	99	Kussmaul K499	02	Mallard UC2681	02,01	NK Brand N65Y3	02
Kaltenberg K3456	02,00	Kussmaul K99+	01,99	Mallard UC2682	01,00,99	NK Brand N67T4	01,00
Kaltenberg K3535Bt	02	Kussmaul KHC	01,00	Mallard UC388	02	NK Brand N70D5	99
Kaltenberg K3808	99			Mallard UC389A	99	NK Brand NX3018	00
Kaltenberg K3869	01	LG Seeds LG2227	00,99	Mallard UC6171	01	NK Brand NX4178	00
Kaltenberg K3904	99	LG Seeds LG2307	00	Mallard UC657	01		
Kaltenberg K4303	99	LG Seeds LG2333	00,99	Mallard UCX2400	01	North Gro 1531	02,99
Kaltenberg K4458	02,01	LG Seeds LG2354	01	Mallard UCX2440	00	North Gro 3620	02,01
Kaltenberg K4508	99	LG Seeds LG2367	02,01,00,99	Mallard UCX2665	00	North Gro 3712	01
Kaltenberg K4606	00,99	LG Seeds LG2400RR	01			North Gro 3721	02
Kaltenberg K4664	02,01	LG Seeds LG2402	01	Midwest G6914	99	North Gro 3741YRR	02
Kaltenberg K4707	00,99	LG Seeds LG2402Bt	02	Midwest G6956	00,99	North Gro 3844	01
Kaltenberg K4809	00,99	LG Seeds LG2411	99	Midwest G6961	02,01	North Gro 4921	99
Kaltenberg K4822RR	00	LG Seeds LG2421	99	Midwest G6982	99	North Gro 4977	99
Kaltenberg K4829	02,01	LG Seeds LG2442	02,01,00,99	Midwest G7000Bt	99	North Gro 5117	01
Kaltenberg K4848Bt	02,01,00	LG Seeds LG2463Bt	02	Midwest G7010	00,99	North Gro 5373	02,99
Kaltenberg K4907	00,99	LG Seeds LG2473	01,00,99	Midwest G7101B	02,01,00	North Gro 5445	99
Kaltenberg K4950	02	LG Seeds LG2474	02,01	Midwest G7122	02,01	North Gro 5515	02,01
Kaltenberg K5005	99	LG Seeds LG2479Bt	00	Midwest G7366	02	North Gro 5622	01
Kaltenberg K5123	02,01,00	LG Seeds LG2481RR	01	Midwest G7380	99	North Gro 5629A	99
Kaltenberg K5151Bt	02,01,00	LG Seeds LG2484	00,99	Midwest G7458Bt	99	North Gro 5633RR	01
Kaltenberg K5301	02	LG Seeds LG2488	02,01,00	Midwest G7491	00	North Gro 5800RR	01
Kaltenberg K5404	99	LG Seeds LG2499	02,01,00,99	Midwest G7494B	02,01	North Gro 5818	02,01
Kaltenberg K5454Bt	00,99	LG Seeds LG2500Bt	00	Midwest G7706	02,01,00	North Gro 5909	02,01
Kaltenberg K5707	99	LG Seeds LG2512	02,01,00,99	Midwest G7711	02,01,00,99	North Gro 5982	02,01
Kaltenberg K5788RR	99	LG Seeds LG2521	01,00	Midwest X91091Bt	99	North Gro 6406Y	02,01
Kaltenberg K5808	01,00,99	LG Seeds LG2526SP	02,01,00,99			North Gro 6612	02,01
Kaltenberg K5959Bt	00,99	LG Seeds LG2528	99	Mycogen 1950LL	02	North Gro 6727	99
Kaltenberg K6006IMI	99	LG Seeds LG2530	00,99	Mycogen 2141	01,00,99	North Gro 6776	99
Kaltenberg K6179	00	LG Seeds LG2533	02,01,00	Mycogen 2242	02,00,99	North Gro 6790	02
Kaltenberg K6202	99	LG Seeds LG2540	02,01	Mycogen 2249IMI	00	North Gro 6800	02,01
Kaltenberg K6220	02	LG Seeds LG2544	99	Mycogen 2250IMI	99	North Gro 6988	01,99
Kaltenberg K6396	01	LG Seeds LG2569	02,01	Mycogen 2424	00,99	North Gro 6996	02,01
Kaltenberg K6543	00	LG Seeds LGX39700	01	Mycogen 2461	01		
Kaltenberg K6606	99	LG Seeds LGX41410	01	Mycogen 2525	00,99	OBrien OB0709	00
Kaltenberg K6789	01,00	LG Seeds LGX42900	02	Mycogen 2544IMI	00	OBrien OB1012	01
Kaltenberg K6880	02	LG Seeds LGX49800	01	Mycogen 2545IMI	99	OBrien OB1013Bt	02
Kaltenberg K6901	99	LG Seeds LGX52001	02	Mycogen 2566	00,99	OBrien OB1022	01
Kaltenberg K7001	00,99	LG Seeds LGX54700	02	Mycogen 2593	00,99	OBrien OB1032	02
Kaltenberg K7001Bt	00,99			Mycogen 2652	01,00,99	OBrien OB1041	01
Kaltenberg K7004	99	La Crosse Forage LC4185	02,01	Mycogen 2657	00,99	OBrien OB1062	01
Kaltenberg K7101	00	La Crosse Forage LC4531	02,01	Mycogen 2670	02,01	OBrien OB1102	02,01
Kaltenberg K7107	00	La Crosse Forage LC4602	02,01	Mycogen 2717	99	OBrien OB3321	02
Kaltenberg K7122Bt	00	La Crosse Forage LC7345	02,01	Mycogen 2717IMI	00	OBrien OB902	01
Kaltenberg K7122RR	99	La Crosse Forage LC7415	02,01	Mycogen 2722IMI	99	OBrien OB913RRBt	02
Kaltenberg K7337	01	La Crosse Forage LC7512	02,01	Mycogen 2915	02	OBrien OB9605	00
Kaltenberg K8084LF	99			Mycogen 3681FQ	01	OBrien OX105	00
Kaltenberg K8094LF	99	Lemke 2030	01	Mycogen 4150LL	00		
Kaltenberg K8098LF	00,99	Lemke 2040A	01	Mycogen 5320Bt	01,00	Ottilie 4101	02
Kaltenberg K8104LF	00,99	Lemke 2041Bt	02	Mycogen 5481FQ	01	Ottilie 4393	02,01
Kaltenberg K8105LFRR	02	Lemke 2050	99	Mycogen TMF108	01	Ottilie 4404	01
Kaltenberg K8108LF	00,99	Lemke 2085	99	Mycogen TMF114	01	Ottilie 4555CL	00
Kaltenberg K8110LF	02,01,00	Lemke 3010	00	Mycogen TMF2450	01	Ottilie 4777	02,01,00
Kaltenberg X671ND	99	Lemke 3050	01	Mycogen TMF94	01	Ottilie 4999	00
Kaltenberg X682ND	99	Lemke 3055	02			Ottilie 5000	00
Kaltenberg X888LF	99	Lemke 3090	01,00,99	NK Brand MAX101	99	Ottilie 5005	02
Kaltenberg X890LF	99	Lemke 4010	02	NK Brand MAX454	99	Ottilie 5267	02,01,00
Kaltenberg X893LF	99	Lemke 4020	00,99	NK Brand N09A4	00		
		Lemke 4031	02,99	NK Brand N17R3	02,01,00,99	Payco 468	99
Kruger EX303ABt	02	Lemke 4038A	02,01,99	NK Brand N21V6	99		
Kruger K9002YGCB	02	Lemke 4040	01,00,99	NK Brand N23C1	02,01	Pfister 2015	99
Kruger K9203	02	Lemke 4060A	01,00	NK Brand N2555BT	02,01,00,99	Pfister 2024	00,99
Kruger K9304Bt	02	Lemke 4066RR	01,00	NK Brand N27M3	00,99	Pfister 2025	00,99
Kruger K9306YGCB	02	Lemke 5010	01	NK Brand N3030	99	Pfister 2123	99
Kruger K9309YGCB	02	Lemke 5021RRBt	02	NK Brand N3030BT	02,01,00,99		
Kruger K9310	02	Lemke 5030	02	NK Brand N31P8	99	Pilgrim Seed 8601	02
Kruger K9310AYGCB	02	Lemke 5040	99	NK Brand N32L9	02,01	Pilgrim Seed 9601	02
Kruger K9410Bt	02	Lemke 5055	99	NK Brand N33G2	02		
Kruger K9807	02	Lemke 5060Bt	00	NK Brand N33H6	02,01	Pioneer 33A14	02,01,99
Kruger K9898+	02	Lemke 5070	01	NK Brand N33V5	02	Pioneer 33B51	02
Kruger K9910YGCB	02	Lemke 6020	02	NK Brand N42B7	99	Pioneer 34B23	02,01,00
		Lemke 6060	00,99	NK Brand N43C4	02,01,00	Pioneer 34F80	99
		Lemke 6068Bt	02	NK Brand N43M9	02	Pioneer 34G13	01,00
Kussmaul K101AA	01	Lemke EX5020	00	NK Brand N4424	99	Pioneer 34G82	00,99
Kussmaul K108	00,99	Lemke EX6070	00	NK Brand N45A6	02,01	Pioneer 34H31	02
Kussmaul K202	01,00,99	Lemke SL24	99	NK Brand N45T5	02,01,00	Pioneer 34K78	99
Kussmaul K203	01			NK Brand N48K2	00,99	Pioneer 34M95	02,01
Kussmaul K206	00			NK Brand N48V8	02,01,00,99	Pioneer 34N44	02
Kussmaul K292	01	Mallard BT2660	99	NK Brand N51Z7	02	Pioneer 34R07	99
Kussmaul K295	00	Mallard BT2700	99	NK Brand N57E3	99	Pioneer 34T14	99
Kussmaul K296	01	Mallard BT621CC	99	NK Brand N58D1	02,01,00,99	Pioneer 34W67	99
Kussmaul K2975	01	Mallard K79A	99	NK Brand N59Q9	02,01,00,99	Pioneer 35D45	02
Kussmaul K2985	02,01	Mallard K88G	99	NK Brand N60B6	02	Pioneer 35N05	00,99
Kussmaul K2989	02,01	Mallard SS505B	99	NK Brand N60N2	01	Pioneer 35P12	99
Kussmaul K395RR	01	Mallard UC2420	01,00	NK Brand N6423	99	Pioneer 35R57	02,01,00,99
Kussmaul K404	01	Mallard UC2430	02	NK Brand N64J9	01,99	Pioneer 35R58	02,01,00,99
Kussmaul K408	02	Mallard UC2652	00	NK Brand N65A1	00	Pioneer 35R60	00
Kussmaul K410	01						

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Brand Hybrid	Year tested	Brand Hybrid	Year tested	Brand Hybrid	Year tested	Brand Hybrid	Year tested
Pioneer 35Y55	02,01	Renk RK648	99	Thurston TE8785	00	US Seeds USC1042	02,01
Pioneer 36B08	02,00	Renk RK648Bt	99			US Seeds USC1051ND	02,01,00
Pioneer 36B09	01	Renk RK655RR	02	Top Farm TF3199	99	US Seeds USC1052RR	02,01
Pioneer 36D14	00,99	Renk RK659	99	Top Farm TFsX2111	01,99	US Seeds USC1059	00
Pioneer 36F30	99	Renk RK668	02,01,00	Top Farm TFsX2178	01	US Seeds USC1069Bt	00,99
Pioneer 36H75	99	Renk RK681	99	Top Farm TFsX105Bt	01,00,99	US Seeds USC1071	02,01
Pioneer 36N70	02	Renk RK685	00	Top Farm TFsX106Bt	99	US Seeds USC1072ND	02
Pioneer 36R10	00,99	Renk RK691	00	Top Farm TFsX2107	00,99	US Seeds USC1079RR	00,99
Pioneer 36R11	02,01,00	Renk RK695	00	Top Farm TFsX2175	00,99	US Seeds USC1099	00,99
Pioneer 3730	02,99	Renk RK700YGCB	02	Top Farm TFsX2179	99	US Seeds USC1099ND	00,99
Pioneer 3751	00,99	Renk RK706	99	Top Farm TFsX2182	00,99	US Seeds USC1109Bt	00
Pioneer 37D03	02	Renk RK768	00	Top Farm TFsX2183	01	US Seeds USC1111	02,01
Pioneer 37H26	01	Renk RK772YGCB	02	Top Farm TFsX2184	01,99	US Seeds USC1119ND	01
Pioneer 37H27	02	Renk RK775	01,00,99	Top Farm TFsX2187	99	US Seeds USC1119RR	01,00,99
Pioneer 37J99	99	Renk RK806	01,00	Top Farm TFsX2188	99	US Seeds USC871	01
Pioneer 37M34	00	Renk RK835	99	Top Farm TFsX2191	99	US Seeds USC873RR	02
Pioneer 37R71	02,01,00,99	Renk RK837	00	Top Farm TFsX2196	99	US Seeds USC909	00,99
Pioneer 3893	01,00	Renk RK840	02	Top Farm TFsX2201	01,00,99	US Seeds USC912RR	02
Pioneer 38A25	02,01	Renk RK896	01,00	Top Farm TFsX2202	99	US Seeds USC952	02
Pioneer 38K06	00,99	Renk RK896Bt	02	Top Farm TFsX2203	01,00	US Seeds USC969	99
Pioneer 38K07	01,00			Top Farm TFsX2289	00	US Seeds USC971CL	01
Pioneer 38P05	00,99	Shelby Farms 12R	99	Top Farm TFsX2295	01,00	US Seeds USC980	00
Pioneer 38P06	02,01,99	Shelby Farms 22R	99	Top Farm TFsX2297	01,00	US Seeds USE1012RR	01
Pioneer 38T27	00	Shelby Farms 25R	99	Top Farm TFsX2299	01,00	US Seeds USE1029Bt	99
Pioneer 38T28	02,01	Shelby Farms 27R	99	Top Farm TFsX2300	01	US Seeds USE1050	99
Pioneer 38W36	99	Shelby Farms 31R	99	Top Farm TFsX2301	01	US Seeds USE980	99
Pioneer 3905	99	Shelby Farms 41R	99	Top Farm TFsX2376	01		
Pioneer 3936	00,99	Shelby Farms 42R	99	Top Farm TFsX2390	01	Vigoro V4400	00
Pioneer 39A26	00,99	Shelby Farms 6A	99	Top Farm TFsX7101Bt	00	Vigoro X648004	00
Pioneer 39D81	00,99			Top Farm TFsX7102Bt	99		
Pioneer 39D82	02	Silage-Fame SF100	01	Top Farm TFsX7187Bt	00	Wensman MAX 007	00,99
Pioneer 39F06	02,99			Top Farm TFsX7191Bt	00	Wensman MAX 127	00,99
Pioneer 39J69	99	Spangler 1104	02	Top Farm TFsX7196Bt	00	Wensman MAX 70	99
Pioneer 39K40	01	Spangler 1204	02	Top Farm TFsX7202Bt	00	Wensman MAX 78	99
Pioneer 39K42	02	Spangler 1303	02	Top Farm TFsX795Bt	99	Wensman W5018Bt	01,00,99
Pioneer 39K73	99	Spangler 1727	00,99	Top Farm TFsX8103RR	01,00	Wensman W5048Bt	01,00,99
Pioneer 39T68	99	Spangler 1827	99	Top Farm TFsX8184RR	01	Wensman W5088Bt	01,00,99
Pioneer 39W54	00	Spangler 2001	00	Top Farm TFsX8201RR	01,00	Wensman W5178Bt	99
		Spangler 2777	01,00			Wensman W5258Bt	01,00,99
Quality Traders QC9621	01	Spangler 2777RG	02	Trelay 1001	99	Wensman W5308Bt	99
Quality Traders QC9664	01	Spangler 3044	99	Trelay 1007	00,99	Wensman W5319Bt	00
Quality Traders QC9680	01	Spangler 3100	99	Trelay 2002	02,01	Wensman W5329Bt	00
		Spangler 3303	01	Trelay 2006	99		
Ragt Semences PG002	02,01	Spangler 3401	00	Trelay 2008	00,99	Whata Hybrid 4417	00
Ragt Semences PG003	01	Spangler 3797	02	Trelay 2009	01,00	Whata Hybrid 4517	00
Ragt Semences PG005	02,01	Spangler 4110	00,99	Trelay 3002	99		
Ragt Semences PG006	02,01	Spangler 4203	02	Trelay 3700	00,99	Wolf River Valley 9883L	00,99
Ragt Semences RH0027	02	Spangler 4300	01,00	Trelay 3900	02,01	Wolf River Valley 9885	99
Ragt Semences RH0155	02	Spangler 4777	01,00	Trelay 4001	01,00,99	Wolf River Valley 9983	99
		Spangler 5003G	02	Trelay 4002	01,00,99		
Ramy PG1356	00	Spangler 5300	02,01,00	Trelay 4009	02,01	Wyffels W1927	99
Ramy PG1455	00	Spangler 5553RR	99	Trelay 5011	02	Wyffels W1970	02,01
Ramy PG1475	00	Spangler 5775	02	Trelay 5012	02	Wyffels W1981	02
Ramy PG1540	00	Spangler 5901	01	Trelay 5020	01	Wyffels W2710	02
Ramy R1356	01	Spangler 5901Bt	00	Trelay 5100	00	Wyffels W2830	01
Ramy R1465	01	Spangler 5904	02	Trelay 5600	01,00,99	Wyffels W2950	00
Ramy R1534	01	Spangler 6300	01,00,99	Trelay 5700	00,99	Wyffels W3160	01
Ramy R1590	01	Spangler 6758RR	99	Trelay 6200	01	Wyffels W3163	02
		Spangler 7558	01,00,99	Trelay 6400	02	Wyffels W3813	02
Renk RK192	02	Spangler 7558G	02	Trelay 6900	02,01,00	Wyffels W427	99
Renk RK232	02,01,00,99	Spangler LFT50	01	Trelay 7001	01,00	Wyffels W4570	01
Renk RK232YGCB	02	Spangler LFT60	01	Trelay 7002	01,00,99	Wyffels W4821	02
Renk RK272	99	Spangler LFT61	02	Trelay 7004	00,99	Wyffels W4828	02,01,00,99
Renk RK277	99	Spangler YG540	99	Trelay 7005	99	Wyffels W4920	00
Renk RK383	02,01			Trelay 7012	02	Wyffels W510	99
Renk RK386	99	Stine 9306Bt	02	Trelay 7095	02,01,00	Wyffels W5164	99
Renk RK394	00	Stine 9410	02	Trelay 8100	02,01	Wyffels W5460	02,01,00
Renk RK404	01	Stine 9505Bt	02	Trelay 8200	01	Wyffels W552	00,99
Renk RK546	99	Stine 9617	02	Trelay 9001	99	Wyffels W5540	01,00,99
Renk RK552	99			Trelay 9012	02	Wyffels W5541	02,00
Renk RK556	02,01	Terra TR1008	99	Trelay 9095	01,00	Wyffels W575Bt	00,99
Renk RK569	01,00,99	Terra TR1047	99	Trelay 9300	01	Wyffels W6570	02,01,00
Renk RK599IT	99	Terra TR1066	99	Trelay 9700	99	Wyffels W6980	01,00
Renk RK606	01,00,99	Terra TR808	99			Wyffels W700	00,99
Renk RK611	99	Terra TR958	99	US Seeds USC1002	02	Wyffels W7090	00
Renk RK622	02,01	Terra TR968	99	US Seeds USC1009	00,99	Wyffels W7180	02,01
Renk RK636	02,01			US Seeds USC1009RR	01,00	Wyffels W7273	02
Renk RK641	99	Thurston TE7565	00	US Seeds USC1029Bt	01,00	Wyffels W7303Bt	01
Renk RK645RRBt	02,99	Thurston TE8783	00	US Seeds USC1030	00	Wyffels W742	00

Notes

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