

2000 Wisconsin Corn Hybrid Performance Trial Results

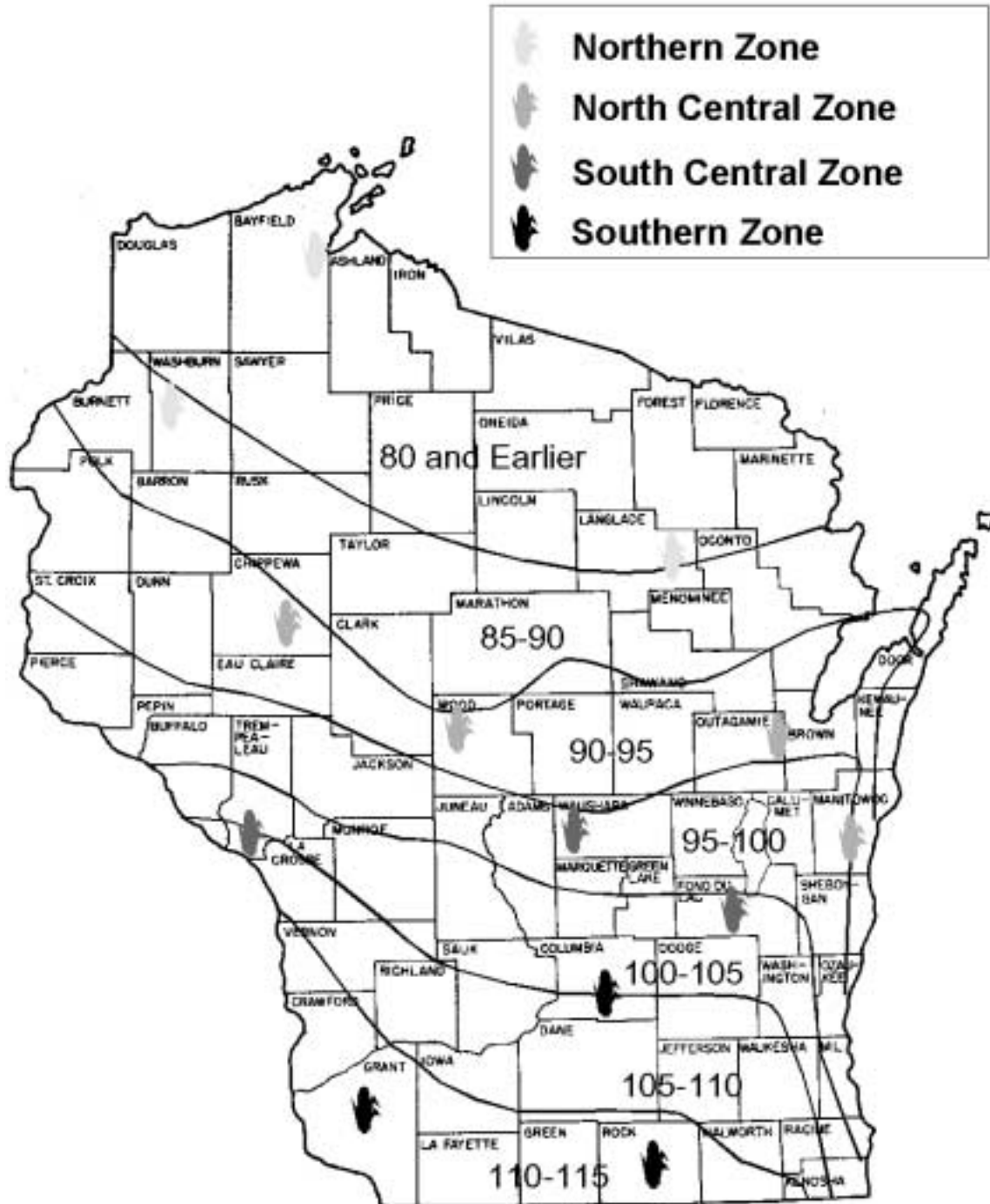
Grain
and
Silage

Department of Agronomy
College of Agricultural and Life Sciences
University of Wisconsin
Wisconsin Crop Improvement Association
Wisconsin Corn Growers Association
Wisconsin Corn Promotion Board

The logo for UW Extension, featuring the letters "UW" in a small font above the word "Extension" in a larger, bold, blue font with a white outline.

Wisconsin Relative Maturity Belts

Hybrid Performance Trial Sites





WISCONSIN CORN GROWERS ASSOCIATION

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Phone: (262) 495-2232 Fax: (262) 495-3178

Autumn 2000

Dear Corn Growers:

This has been a year of celebration for the Wisconsin Corn Growers Association. As you can see by the addition to our logo above, it is our 25th anniversary. The agricultural landscape of Wisconsin has changed since the organization was formed. More corn is planted to be sold rather than to be fed on the farm, so more of our focus is on increasing the demand for corn, to help increase the price.

One of the ways we worked to increase the demand is to promote in-state processing of corn. Presently there is almost no processing of corn in Wisconsin, but over 1/5th of all the corn we grow in the US is processed for industrial uses, the largest of which is ethanol. Over 1/3rd of all the ethanol used in the US is used in the Milwaukee-Chicago area. Last April a new state law was passed to encourage ethanol production by offering subsidies to ethanol producers. As a result, there is a lot of interest in corn processing, and at least three plants are in the planning stages. We think that is a cause for celebration!

We have also worked on other issues, such as improving the lock and dam system on the Mississippi River to keep our exports competitive in world markets.

A big issue for all Wisconsin farmers is how the proposed DNR-DATCP regulations on runoff will impact farmers. We participated in hearings last spring and the Wisconsin Corn Promotion Board is sponsoring research on the impact, which is reported on the following pages.

Finally, our 2001 Corn Soy EXPO will be held at the Alliant Energy Center of Dane County (formerly the Dane County EXPO Center) in February. Join us to see increased exhibit numbers and our expanded program.

Plan on taking a winter break with other Corn Growers at the Commodity Classic in San Antonio later in February.

Sincerely,

Roger Hilliard, President
Wisconsin Corn Growers Association

ETHANOL IN WISCONSIN

ETHANOL made from corn continues to be a mainstay in the gasoline market for the Milwaukee-Chicago area, even outside of the months when its' use is mandated by EPA to reduce emissions. This market uses 1/3rd of all the ethanol in the US.

Some of this ethanol is made from Wisconsin corn sold out of state where it is processed and then the ethanol is shipped back into the state. The high protein animal feed left after the starch portion of the corn is made into ethanol is also shipped back into the state as cattle feed. More and more Wisconsin corn is grown for sale and almost 2/3^{rds} of all Wisconsin corn is sold out of state with no processing, so this seems very inefficient, with the farmer likely paying the freight both ways. Last Spring an ethanol subsidy bill was signed into law to encourage processing in Wisconsin, to save transportation costs and to keep the jobs and profits in state. Since then there has been a federal subsidy announced for new ethanol producers. As a result, there are several plants in the planning stages. Increased local demand should increase our Wisconsin corn price.



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WISCONSIN RUNOFF REGULATIONS PROPOSED

NEW REGULATIONS are proposed for Wisconsin by DNR and the Dept. of Agriculture, Trade and Consumer Protection (DATCP) that would mandate less runoff from all land in Wisconsin. Farmers are concerned because the regulations are based on Phosphorous (P) standards and would limit the amount of P that could be applied as

fertilizer and manure. Cities would also face stricter standards for discharges from sewer plants, etc., but the main burden would seem to fall on farmers. Farm organizations are concerned that imposing standards without concern for the cost would put farmers out of business or at a disadvantage to other farmers.

RESEARCH BY THE WISCONSIN CORN PROMOTION BOARD is addressing these concerns. One study is by UW-Madison Economist Randy Fortenberry. He is gathering information on how much it will cost various kinds of farms to comply with the proposed rules, and how it will affect their farming operation. UW-Madison Rural Sociology Professor Pete Nowak is doing intensive soil sampling on a small watershed to see if all the land needs to come under the regulations, or if simply applying the regulations to the most vulnerable land would achieve the reduced runoff goals.



February 6 & 7, 2001

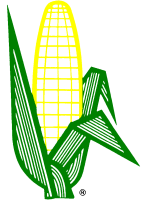
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WISCONSIN CORN PROMOTION BOARD RESEARCH PROJECTS

RESEARCH SPONSORED by the Wisconsin Corn Promotion Board usually falls into either research on more efficient production of corn or research to improve the demand for Wisconsin corn. This year another category was added, in that two projects were sponsored to determine how the effect of new DNR-DATCP regulations to reduce runoff of nutrients like phosphorous will affect Wisconsin farmers. These proposed regulations could cost Wisconsin farmers hundreds of millions of dollars in compliance costs. In 1999 several two-year research projects were begun.

WeedSoft

UW-Madison weed scientist Chris Boerboom began a two-year project to customize WeedSoft, a software program for crop consultants. This is a program developed in Nebraska to give better answers to weed control questions. After inputting the data about the crop and the weed pressure present, the program ranks available herbicides and weed control strategies by effectiveness and cost. Chris is adapting the recommendations to Wisconsin conditions.

Precision Farming

University Extension Ag Engineer Ron Shuler is studying precision ag equipment like yield monitors and variable rate controllers to test their effectiveness under Wisconsin conditions and their application, including costs and net returns on Wisconsin farms.

Stand Variation

Extension Corn Specialist Joe Lauer is doing stand variability research. There has been a lot written about the effect of poor spacing of corn plants in the row, and he is doing

research to see how much effect there is under Wisconsin conditions.

Pocket-sized Field Guides

In addition, the Board is in the second year of sponsoring the printing of pocket-sized guides for farmers and consultants. The first guide showed various corn insects in their early growth stages and the second one will be on small weed plants, with the hope that farmers will be able to identify and treat the weeds or insects at earlier stages, thus saving on insecticide or herbicide costs and decreasing the amounts of pesticide needed.

Reduced Herbicide Rates

UW-Madison Weed Scientist Gordon Harvey is evaluating reduced rates of herbicides. Lower rates of herbicides would save money and pesticide, and Gordon is researching when those lower rates are appropriate and what the savings would be.

Specialty Corn Markets

The Michael Fields Agricultural Institute at East Troy researched specialty corns and their markets in Wisconsin. They looked at both present and future markets for all kinds of specialty corns and concluded that the markets were small, fragmented, and probably over supplied already.

County Corn Plots

County corn plots by various ag consultants were also sponsored by the Board in an effort to get more information out more quickly on new varieties.

2000 WISCONSIN CORN HYBRID PERFORMANCE TRIALS GRAIN AND SILAGE

Joe Lauer, Kent Kohn, Pat Flannery and Martin Kral

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 2000, 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 2000 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.

Grain		
<i>Southern Zone</i>	Early Maturity Trial: 105-day or earlier	Table 4
Arlington, Janesville, Lancaster	Late Maturity Trial: later than 105-day	Table 5
<i>South Central Zone</i>	Early Maturity Trial: 100-day or earlier	Table 6
Fond du Lac, Galesville, Hancock (irrigated)	Late Maturity Trial: later than 100-day	Table 7
<i>North Central Zone</i>	Early Maturity Trial: 90-day or earlier	Table 8
Chippewa Falls, Marshfield, Seymour, Valders	Late Maturity Trial: later than 90-day	Table 9
<i>Northern Zone</i>		Table 10
Spoooner (three sites), White Lake, and Ashland		Table 17
Silage		
<i>Southern Zone</i>	Early Maturity Trial: 105-day or earlier	Table 11
Arlington and Lancaster	Late Maturity Trial: later than 105-day	Table 12
<i>South Central Zone</i>	Early Maturity Trial: 100-day or earlier	Table 13
Fond du Lac and Galesville	Late Maturity Trial: later than 100-day	Table 14
<i>North Central Zone</i>	Early Maturity Trial: 90-day or earlier	Table 15
Marshfield and Valders	Late Maturity Trial: later than 90-day	Table 16
<i>Northern Zone</i>		
Ashland		Table 18

GROWING CONDITIONS FOR 2000

Seasonal precipitation and temperature at the trial sites are shown in Table 2. Both grain and silage yields were above normal throughout Wisconsin. Dry conditions during April allowed corn planting to progress 35 percent faster than the five-year average. Cool, wet conditions during late May and

early June slowed corn development. Numerous cases of anthracnose (*Colletotrichum graminicola* (Ces.) G.W. Wils.) were reported by the UW Plant Disease clinic. Favorable rainfall patterns occurred through June and July. Little brace root formation was observed. Growing degree unit accumulation was normal throughout the entire growing season. Storms with high winds caused severe plant lodging in southern and western Wisconsin. Below

normal rainfall was measured at many sites during August and September. Corn silage harvest started on the normal date. A killing frost did not occur until mid-October. Plant lodging was a problem in many fields. During the fall harvest season, yields were generally good to excellent, and moisture was low decreasing drying costs and somewhat offsetting low corn prices for many farmers.

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

Plots were planted with a corn planter except for trials at Ashland in the Northern Zone, which were hand-planted. Two-row plots were planted at all locations except Ashland, where one-row plots were used. 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.

HARVESTING

Grain: Plots were harvested with a self-propelled corn combine or shelled with a portable field sheller. 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. At Ashland, plots were hand-harvested. 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 by the Marshfield Forage Analysis Laboratory.

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 2000 locations conducted in that zone. Yield and moisture data for both 1999 and 2000 are provided if the hybrid was entered previously in the 1999 trials. A hybrid index is 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 that are rated at appropriate relative maturities by the Minnesota Relative Maturity rating system are shown in each table. Minnesota Relative Maturity ratings are rounded to 5-day increments.

This system categorizes corn hybrids into relative maturity groups by comparing harvest grain moisture of evaluated hybrids to moisture of standard hybrids for each group (see *Minnesota Relative Maturity Rating of Corn Hybrids*, Agriculture Extension Service, University of Minnesota, Agronomy No. 27). 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.

In addition, the hybrid index lists company maturity ratings, Minnesota relative maturity ratings, and a Wisconsin comparative relative maturity (CRM) rating. The Wisconsin CRM rating is an average relative maturity rating comparison among commercially available hybrids at the same grain moisture using company maturity ratings.

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:

$$\frac{[(\text{Yield \%} \times 50) + (\text{Dry matter \%} \times 35) + (\text{Upright stalks \%} \times 15)]}{100}$$

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 (CWD), 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, were calculated using an adaptation by Eric Schwab and Randy Shaver (UW-Madison Dairy Science Department) of the MILK95 model (Undersander, Howard and Shaver; J. Prod. Agric. 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; Anim. Feed Sci. Technol. 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 CWD 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 content and CWD assuming a 1350 lb. cow consuming a 30% NDF diet. Using National Research Council (NRC, 1989) 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 2000 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 1999 results. **Be wary** of any hybrids on your list that had a 1999 Performance Index of 100 or lower. Choose two or three of the remaining hybrids that have relatively high Performance Indexes for **both** 1999 and 2000.
 - 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 1999 or 2000 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 1999 and 2000 over a wide range of locations and climatic conditions.

You are taking a tremendous gamble if you make hybrid selection decisions based on 2000 yield comparisons in only one or two local test plots.

OBTAINING DATA ELECTRONICALLY

The information in 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!** that can be downloaded from the above internet address. This book can be downloaded over the internet in a Microsoft Excel 97 format.

About the authors: Joe Lauer is associate professor of agronomy and also holds an appointment with University of Wisconsin-Extension, Kent Kohn is senior research specialist in agronomy, Pat Flannery is program manager in agronomy and Martin Kral is an assistant research specialist.

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A3653 2000 Wisconsin Hybrid Corn Performance Trials - Grain and Silage.

Table 1. Companies with hybrids included in 2000 trials

Brand	Company	Address	City	State	Zip
Agri Gold	Agri Gold Hybrids, Inc	Rt 1, Box 203	St. Francisville	IL	62460
Agripro	Garst Seed Company	P.O. Box 500	Slater	IA	50244
Asgrow	Monsanto	3100 Sycamore Road	DeKalb	IL	60115
Brown	Brown Seed Farms	P.O. Box 186	Prescott	WI	54021
Brunner	Brunner Seed Farm	W3850 US Hwy 10	Durand	WI	54736
Cargill	Cargill Hybrid Seeds, Inc	P.O. Box 5645	Minneapolis	MN	55440-5645
Carharts Blue Top	Carharts Blue Top Seed, Inc.	N14743 County Rd. M	Galesville	WI	54630-8323
Cornelius	Cornelius Seed Corn Co.	31578 150th St.	Bellevue	IA	52031
Dahlco	Dahlco Seeds, Inc.	14730 15th St. SW	Cokato	MN	55321
Dahlman	Dahlman Seed Co. LLP	73504 200th St.	Dassel	MN	55325
Dairyland Seed	Dairyland Seed Company, Inc.	P.O. Box 958	West Bend	WI	53095
Dekalb	Monsanto	3100 Sycamore Road	DeKalb	IL	60115
Foundation	Mohr Seed Inc.	P.O. Box 66	Onalaska	WI	54650
Garst	Garst Seed Company	P.O. Box 500	Slater	IA	50244
Geertson	Gertson Seed Farm	1665 Burroughs Rd.	Adrian	OR	97901
Golden Harvest	Golden Seed Company, Inc.	27420 137th Avenue N.	Cordova	IL	61242
Growmark	Growmark, Inc.	1701 Towanda Avenue	Bloomington	IL	61701
Gutwein	Gutwein Seeds	Rt 1, Box 40	Francesville	IN	47946
High Cycle	Trelay Seed Co.	11623 Hwy 80 N	Livingston	WI	53554
Hughes	Hughes Hybrids, Inc.	206 N. Hughes Rd	Woodstock	IL	60098
Jeske	Jeske Seed Farm	W8598 County S	Hortonville	WI	54944
Jung	Jung Seed Genetics, Inc.	335 S. High St.	Randolph	WI	53957
Kaltenberg	Kaltenberg Seed Farms, Inc.	5506 Hwy 19, Box 278	Waunakee	WI	53597
Kussmaul	Kussmaul Seed Company	9020 Hwy 18	Mt. Hope	WI	53816
Lemke	Lemke Seed Farms, Inc.	10220 North Granville Road	Mequon	WI	53097
LG Seeds	L.G. Seeds	925 Dexter St. Box 216	Prescott	WI	54021-0216
M/W Genetics	Midwest Seed Genetics	P.O. Box 518	Carroll	IA	51401
Mallard	Mallard Seed Company, Inc.	P.O. Box 637	Plainview	MN	55964
Mycogen	Mycogen Seeds	P.O. Box 21428	St. Paul	MN	55121-1428
NK Brand	Novartis Seeds, Inc.	2622 Blaney Road	Madison	WI	53711
O'Brien	O'Brien Farms, Inc.	552 Glenway Road	Brooklyn	WI	53521
Ottillie	Ottillie RO Seeds	1462 Sanford	Marshalltown	IA	50158
Pfister	Pfister Hybrid Corn Co.	P.O. Box 187	El Paso	IL	61738
Pioneer	Pioneer Hi-Bred International, Inc.	414 D'Onofrio Dr. Suite 200	Madison	WI	53719
Ramy	Ramy International, Ltd	1329 N. Riverfront Drive	Mankato	MN	56001
Renk	Renk Seed Company	6800 Wilburn Road	Sun Prairie	WI	53590
Spangler	Spangler Bros., Inc.	803 West Racine St.	Jefferson	WI	53549
Top Farm	Top Farm Hybrids, Inc.	P.O. Box 850	Cokato	MN	55321
Thurston	Thurston Genetics Inc.	35098 Myelle Road	Kingston	IL	60145
Trelay	Trelay Seed Co.	11623 Hwy 80 N	Livingston	WI	53554
US Seeds	United Suppliers, Inc.	30473 260th St. P.O. Box 538	Eldora	IA	50627
Vigoro	Royster Clark, Inc.	70 North Market Street	Mt. Sterling	OH	43143
Wensman	Wensman Seed Company	P.O. Box 190	Wadena	MN	56482
Whata Hybrid	Whata Hybrid	8908 W. Saban Church Rd	Pearl City	IL	61062
Wolf River Valley	Wolf River Valley Seeds	N2976 Cty M	White Lake	WI	54491
Wyffels	Wyffels Hybrids, Inc.	P.O. Box 246	Atkinson	IL	61235

Table 2. 2000 Temperature and Precipitation Summary

Location		May		June		July		August		September	
		Average Precipitation	Departure Departure	Average Total	Departure Departure	Average Total	Departure Departure	Average Total	Departure Departure	Average Total	Departure Departure
Arlington	Temperature	60.7	2.8	65.0	-1.8	69.2	-2.1	70.5	1.6	62.6	1.7
	Precipitation	10.5	7.4	7.2	3.4	3.4	0.0	3.3	-0.6	3.1	-1.2
Ashland	Temperature	53.3	1.7	59.1	-2.3	65.9	-1.9	65.7	0.1	57.1	0.0
	Precipitation	2.7	-0.6	3.2	-0.1	4.8	1.3	3.2	-1.0	3.4	-0.5
Chippewa Falls (Eau Claire)	Temperature	59.3	2.0	65.1	-1.3	70.8	-0.7	70.1	1.5	58.8	-0.2
	Precipitation	4.1	0.3	8.3	4.1	3.8	-0.1	2.2	-2.3	3.9	0.0
Fond du Lac	Temperature	59.1	1.6	65.5	-1.5	69.2	-2.8	69.8	0.3	60.8	-0.5
	Precipitation	3.6	0.5	5.4	1.9	2.5	-0.7	3.8	-0.7	3.7	0.0
Galesville (Trem. Dam #6)	Temperature	60.6	1.3	66.6	-1.7	71.6	-1.3	71.4	1.2	62.5	1.1
	Precipitation	5.3	1.5	7.5	3.5	3.3	-0.8	3.8	-0.3	2.0	-2.3
Hancock*	Temperature	59.0	1.3	64.1	-2.5	67.7	-3.2	69.0	0.6	58.6	-1.5
	Precipitation	5.1	1.8	6.9	3.3	2.3	-1.3	4.6	0.7	3.5	-0.7
	Irrigation	0.9		2.6		5.8		2.5		0.0	
Janesville (Beloit)	Temperature	60.6	2.4	66.1	-2.6	70.1	-2.6	70.6	0.7	63.1	1.1
	Precipitation	6.3	3.2	9.5	5.7	3.6	-0.3	2.9	-1.1	3.5	-0.5
Lancaster	Temperature	59.7	1.4	64.9	-2.8	69.0	-3.0	69.5	-0.2	61.7	0.2
	Precipitation	6.5	3.0	9.8	5.8	3.0	-1.0	3.0	-1.5	2.8	-1.1
Marshfield	Temperature	57.8	1.8	62.8	-1.8	67.7	-1.6	67.8	1.0	58.0	-0.3
	Precipitation	3.7	-0.4	7.5	3.5	2.3	-1.7	4.0	-0.1	4.7	0.2
Seymour (Green Bay)	Temperature	56.8	1.3	63.8	-0.7	67.0	-2.7	67.1	0.0	58.0	-1.0
	Precipitation	4.4	1.6	5.3	1.9	6.3	3.2	3.4	-0.1	3.7	0.2
Spooner*	Temperature	59.1	3.2	63.2	-1.2	69.0	-0.5	68.5	1.9	58.2	0.6
	Precipitation	4.5	1.3	4.8	0.9	7.5	3.7	4.8	0.5	0.7	-3.2
	Irrigation	0.5		0.0		2.4		1.5		0.7	
Valders (Manitowoc)	Temperature	55.4	1.3	63.8	0.0	68.0	-1.8	69.6	1.3	61.8	1.2
	Precipitation	5.0	2.2	3.5	0.4	6.3	3.3	5.2	1.9	4.5	1.1
White Lake (Antigo)	Temperature	54.4	1.2	59.5	-2.5	65.2	-1.9	65.7	1.5	56.0	1.2
	Precipitation	3.4	0.1	5.6	1.8	5.3	1.6	2.6	-1.6	4.8	0.4

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

Table 3. Individual Trial Information - 2000 Trials

Location	Cooperators	Soil Type	Previous Crop	Row Width (in)	Planting Date	Harvest Dates	Ave. Final Stand (plants/A)	Tillage Operations	--Soil Test--			--Nitrogen Fertilizer--			Weed Control	Insecticides
									pH	P	K	actual (lb/a)	form	time		
Arlington	S.Kraak J. Quimby	Plano Silt Loam	Soybean	30	25-Apr	G:10-Oct S: 25-Sep	G:27374 S:30699	Fall Chisel Field Cultivator	6.1	78	235	150 9	46-0-0 6-24-24	preplant planting	Harness 1.5 pts/A Hornet 2.4 oz/A Banvel 2.0 oz/A Cultivate	None
Ashland	M. Mlynarek	Alledale Loamy Fine Sand	Corn	30	1-May	G: 26-Sept S: 21-Sept	G:28184 S:29620	Moldboard Plow Disk Field Cultivator	7.0	165	148	150	46-0-0	preplant	Lasso 2 qts/A Bladex 2 qts/A Basagran 1 qt/A	None
Chippewa Falls	J. Clark	Sattre Silt Loam	Soybean	30	26-Apr	G: 2-Oct	G:28355	Field Cultivator	5.9	65	150	9	28-0-0 6-24-24	preplant planting	Harness 1.7 pts/A Hornet 2.4 oz/A Cultivate	None
Fond du Lac	M. Rankin E. Montsma	Virgil Silt Loam	Soybean	30	3-May	G: 12-Oct S: 18-Sept	G:27497 S:31529	Moldboard Plow Field Cultivator	6.6	37	100	150 9	82-0-0 6-24-24	preplant planting	Accent Gold 2.9 oz/A Atrazine 8 oz/A Cultivate	None
Galesville	K. Congdon D. Frame	Downs Silt Loam	Soybean	30	26-Apr	G: 3-Oct S:13-Sept	G:27982 S:31529	Disk	6.3	32	170	150 9	46-0-0 6-24-24	preplant planting	Eradicane 7.25 pts/A Hornet 5 oz/A Clarity 2 oz/A Cultivate	None
Hancock Irrigated	J. Breuer C. Kostichka	Plainfield Sand	Soybean	30	24-Apr	G: 9-Oct	G:27760	Moldboard Plow Disk	6.8	88	74	9 175	6-24-24 28-0-0	planting post	Lasso 2 qts/A Aatrex 4L .75 qt/A	None
Janesville	B. Jaynes D. Nehring	Plano Silt Loam	Soybean	30	28-Apr	G: 5-Oct	G:28604	Chisel Plow Field Cultivator	6.7	51	195	160 9	28-0-0 6-24-24	preplant planting	Harness 2.75 pt/A Hornet 4.5 oz/A Cultivate	None
Lancaster	T. Wood D. Heimdal	Fayette Silt Loam	Soybean	30	27-Apr	G: 11-Oct S: 21-Sept	G:21476 S:23232	Soil Finisher	7.2	61	190	150 9	82-0-0 6-24-24	preplant planting	Aatrex 4L .8 qt/A Dual II 2pts/A Cultivate	None
Marshfield	D. Wiersma T. Drendel	Loyal Silt Loam	Corn	30	1-May	G:30-Oct S: 28-Sept	G:27616 S:30699	Moldboard Plow Field Cultivator 2x	G: 7.1 S: 6.7	53 38	168 122	9 100	6-24-24 46-0-0	planting post	Harness 2pts/A Hornet 3.2 oz/A Cultivate	Lorsban 7lbs/A
Seymour	R. Vanden Heuvel J. Biese	Clay Loam	Corn	30	2-May	G:16-Oct	G:29560	Chisel Plow Soil Finisher	7.1	42	210	9	6-24-24 9000 gal/A Manure	planting	Northstar 4 oz/A Accent .33 oz/A Cultivate	Lorsban 7lbs/A
Spooner Dryland	M. Bertrum	Cress Sandy Loam	Corn	36	3-May	G:11-Oct	G:22930	Moldboard Plow Disk	6.6	39	93	9 138	6-24-24 46-0-0	planting post	Frontier 18 oz/A Marksman 2.0 pt/A Cultivate 2x	None
Spooner Irrigated	M. Bertrum	Cress Sandy Loam	Alfalfa	36	3-May	G:13-Oct	G:24516	Moldboard Plow Disk	6.5	57	113	5 138	5-10-30 46-0-0	planting post	Frontier 18 oz/A Marksman 2.0 pt/A Accent 0.67 oz/A Cultivate 2x	None
Spooner Silt Loam	M. Bertrum	Antigo Silt Loam	Corn	36	4-May	G:11-Oct	G:25436	Moldboard Plow Disk 2x	6.6	25	80	9 138	0-0-60 6-24-24 46-0-0	preplant planting post	Frontier 18 oz/A Marksman 2.0 pt/A Accent 0.67 oz/A Cultivate 2x	None
Valders	S. Hendrickson J. Maney T. & B. Maney	Kewaunee Clay Loam	Wheat	30	2-May	G:17-Oct S: 26-Sept	G:29299 S:30699	Moldboard Plow Field Cultivator	7.0	53	128	9	6-24-24 9000 gal/A Manure	planting	Accent .33oz/A Northstar 4oz/A Cultivate	None
White Lake	J. Wahleithner	Antigo Silt Loam	Soybeans	30	1-May	G:30-Oct	G:28210	Moldboard Plow Disk	6.5	125	95	9 130	6-24-24 33-0-0	planting preplant	Atrazine 1 lb/A Harmony Extra 2qts/A Cultivate	None

Note: At locations with both grain and silage trials, 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	2000							1999								
		AVERAGE					ARL	JAN	LAN	AVERAGE					ARL	JAN	LAN
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A
Hughes	2760	171	19.1	57	12	96	190	179	144								
Kussmaul	K295	170	19.3	58	16	95	196	179	135								
Dairyland	Stealth 1498	181	19.3	57	8	99	206	189	147								
NK Brand	N45-T5	189	19.9	56	12	100	199	206	162								
Dekalb	DK507	181	20.0	59	6	100	184	190	170	199	19.2	59	2	99	214	206	178
NK Brand	N43-C4	195	20.1	56	12	102	209	198	178								
Carhart's Blue Top	CX1200A	187	20.4	56	17	99	204	193	164	201	18.0	58	1	100	208	215	180
Hughes	2927	193	20.5	56	16	101	214	184	183	189	17.4	58	2	97	195	208	162
Carhart's Blue Top	CX3100A	172	20.6	57	15	95	179	186	150								
M/W Genetics	G7101Bt	214 *	20.8	58	9	107 *	216	222 *	204 *								
Carhart's Blue Top	CX130AA	180	21.1	59	12	97	211	178	152	200	20.0	59	1	99	202	213	185
Carhart's Blue Top	CX102RR	172	21.1	56	10	96	169	183	165								
Renk	RK606	171	21.2	59	10	95	196	174	144	203	19.5	60	2	100	211	215	182
Vigoro	V4400	188	21.3	56	11	100	195	190	179								
Renk	RK685	185	21.4	55	13	99	190	198	167								
Cargill	4150LL	193	21.6	57	10	101	212	198	169								
100-DAY HYBRID TRIAL AVERAGE##			21.6														
Dairyland	Stealth 1502	189	21.7	57	6	101	207	200	160								
Spangler	5300	205	22.4	56	20	102	222 *	222 *	170								
Kaltenberg	K6179	203	22.5	57	11	103 *	218	216	175								
Renk	RK695	176	22.6	54	16	95	179	182	167								
Jung	2565	191	22.7	56	9	100	214	197	163								
Golden Harvest	H7895	201	22.7	55	9	102 *	217	208	177								
Kussmaul	K202	183	22.8	55	17	97	200	185	164	201	19.6	58	4	99	218	216	170
Cornelius	C369YG	196	22.9	55	20	99	198	206	184								
Cornelius	C391	198	23.0	54	15	101	193	217	185								
US Seeds	USC1059	199	23.1	57	18	100	206	210	180								
Renk	RK668	203	23.2	58	14	102	227 *	206	175								
Golden Harvest	H2398	190	23.2	55	11	99	211	200	160								
Garst	8707	205	23.5	55	8	103 *	228 *	218	170	215	20.0	56	1	103	221	230	193
Asgrow	RX452YG	197	23.6	57	16	100	213	206	171								
Pioneer	35R57	210 *	23.6	57	12	104 *	208	227 *	195 *	229 *	23.2	56	3	104 *	233 *	252 *	201
AgriGold	A6269Bt	183	23.7	56	12	97	189	188	171								
Pioneer	35R60	204	23.7	56	11	103 *	202	210	199 *								
Hughes	3830	173	23.8	54	14	94	191	175	154								
Carhart's Blue Top	CX105A	195	24.0	56	13	100	213	196	177	211	21.0	58	2	101	218	223	190
Cornelius	C518	191	24.0	53	17	98	208	191	174								
Pioneer	36D14	197	24.0	56	18	99	216	206	169	212	21.1	57	1	101	216	223	196
Gutwein	2400	209 *	24.0	54	16	103 *	220	203	203 *	233 *	21.5	56	2	106 *	236 *	256 *	208 *
Carhart's Blue Top	CXP1500	200	24.0	55	14	101	216	217	166								
Dekalb	DKC53-32	187	24.0	55	15	97	205	207	148								
US Seeds	USC1030	194	24.0	54	9	100	215	210	157								
Vigoro	X648004	186	24.1	54	15	97	200	194	162								
Pfister	2025	203	24.2	54	17	101	215	205	187								
105-DAY HYBRID TRIAL AVERAGE##			24.3														
Growmark	FS4121	189	24.3	55	11	98	220	205	143								
Pioneer	35R58	217 *	24.3	56	13	106 *	210	225 *	215 *	236 *	25.1	55	1	106 *	241 *	246 *	220 *
Asgrow	RX508YG	186	24.3	54	12	98	194	192	172								
Cornelius	C408YG	220 *	24.4	56	14	106 *	226 *	225 *	207 *								
Hughes	3389	189	24.5	54	10	99	215	196	158	198	22.3	55	1	98	206	214	176
Kaltenberg	K5808	205	24.6	56	12	102	220	218	176	209	24.3	56	1	99	223	221	182
Wyffels	W2950	185	24.7	53	13	96	209	192	152								
Growmark	FS4481	212 *	24.9	55	8	105 *	226 *	215	193								
Wyffels	W4828	207 *	24.9	55	10	103 *	206	228 *	187	208	23.5	55	2	99	204	228	193
Brunner	S5474	201	24.9	54	12	101	218	214	172	222	22.0	55	1	103	238 *	233	194

CONTINUED.

Table 4. 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	2000						1999									
		AVERAGE					ARL	JAN	LAN	AVERAGE					ARL	JAN	LAN
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A
Ottilie	4555CL	197	25.1	54	8	100	210	228 *	154								
Jung	2612	210 *	25.2	56	8	104 *	216	216	198 *								
Kaltenberg	K5454Bt	207 *	25.4	55	12	102	213	227 *	182	212	22.6	57	1	101	217	226	192
Kussmaul	K206	184	25.4	54	11	97	192	196	162								
Brunner	S5100	194	25.4	55	12	99	217	195	171	214	24.6	56	5	100	226	223	195
AgriGold	A6382	220 *	25.4	53	12	106 *	241 *	235 *	184								
Pfister	2024	201	25.4	55	6	102	211	215	179	210	23.2	56	1	100	219	224	189
AgriGold	A6365	198	25.5	55	10	100	217	205	172								
Dairyland	Stealth 1406	207 *	25.7	54	12	102	220	208	193	225	22.4	55	2	104 *	237 *	240	198
Whata Hybrid	4517	192	25.7	52	16	98	199	200	176								
LG Seeds	LG2512	200	25.8	55	11	101	218	208	175	216	24.8	55	2	101	231	223	195
Carhart's Blue Top	CX1056A	193	26.3	55	7	99	207	202	171								
US Seeds	USC1051ND	183	26.3	55	13	96	204	192	153								
Hughes	3799	179	26.8	56	13	94	194	191	151								
LG Seeds	LG2521	175	26.9	53	14	93	188	197	140								
Dairyland	Stealth 1606	197	26.9	53	25	97	193	226 *	171								
O'Brien	OX105	186	27.0	55	5	98	189	199	170								
Hughes	4118	191	27.1	53	18	96	211	201	160	200	20.7	57	3	98	206	216	176
Wyffels	W4920	197	27.1	53	21	97	199	220 *	171								
LG Seeds	LG2533	190	27.2	53	4	98	222 *	207	139								
Trelay	7095	210 *	27.4	54	12	102	220	230 *	179								
LG Seeds	LG2530	199	27.4	53	15	99	198	212	186	214	22.8	55	4	101	210	235	198
Trelay	7001	203	28.3	53	19	99	212	224 *	172								
AgriGold	XA5000	198	28.7	52	7	100	200	218	175								
MEAN		194	23.9	55	13	100	207	204	171	206	21.1	57	2	100	214	219	186
LSD(0.10)**		14	1.3	1	7	4	19	15	20	10	1.2	1	2	2	16	14	14

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 which did not perform significantly less than the highest hybrid in the test.

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	2000						1999									
		AVERAGE					ARL	JAN	LAN	AVERAGE					ARL	JAN	LAN
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A
Jung	2671	196	22.4	57	13	101	206	207	176								
Renk	RK768	202	23.4	57	14	101	205	222	179								
Spangler	6300	197	23.5	57	13	101	212	199	182	232	23.7	57	3	104 *	241	242	214
US Seeds	USC1079RR	194	24.4	54	10	100	184	212	187	209	22.3	57	1	99	219	218	190
Asgrow	RX637	210	24.5	53	18	102	234 *	219	178								
Dairyland	Stealth 1508	208	24.6	53	13	103 *	215	215	193	220	22.8	54	3	101	242	227	192
Golden Harvest	H8067Bt	191	24.6	55	9	99	200	208	167								
Mycogen	2657	218 *	24.6	53	12	106 *	235 *	221	199								
Kaltenberg	K6543	168	24.8	53	17	92	183	167	153								
Renk	RK775	203	24.9	54	12	102	209	199	202 *	232	23.0	55	1	104 *	250 *	257 *	188
Cornelius	C507	214 *	24.9	53	17	103 *	231 *	230 *	181	234 *	24.0	54	2	104 *	238	247	217
Kussmaul	K108	192	24.9	54	12	99	203	197	176	220	21.9	56	1	102 *	239	235	186
Whata Hybrid	4417	203	25.0	53	18	100	220	211	179								
Golden Harvest	H8250	194	25.1	55	8	100	208	207	167								
Cargill	5320Bt	222 *	25.2	55	11	107 *	236 *	228 *	203 *								
Spangler	5901Bt	206	25.3	54	9	103 *	219	225 *	175								
High Cycle	HC350	207	25.5	53	14	102	210	227 *	185								
Mallard	UC2682	194	25.6	55	14	99	199	208	175	208	22.8	56	0	99	221	217	184
105-DAY HYBRID TRIAL AVERAGE##			25.8														
Hughes	5597	188	25.8	53	18	97	199	189	177	223	22.5	56	1	102 *	243	231	195
Brown	6850	191	26.0	53	19	97	212	188	172	224	22.0	56	1	103 *	241	232	198
Kaltenberg	K6789	216 *	26.0	53	11	104 *	233 *	231 *	185								
Mycogen	2652	209	26.0	53	16	102	222	236 *	169	224	24.7	54	1	101	240	235	198
Mycogen	2717IMI	216 *	26.2	52	11	104 *	226 *	234 *	190								
Kussmaul	KHC	190	26.2	54	11	98	204	206	161								
Golden Harvest	H8562	210	26.2	53	12	103 *	220	229 *	180	210	21.2	56	3	100	210	215	204
Garst	8590IT	204	26.2	54	11	101	218	234 *	161	221	24.2	56	2	101	230	227	207
Growmark	FS5308	204	26.3	54	10	101	212	230 *	169	222	21.9	56	1	102 *	230	237	200
Brown	6341	194	26.5	54	17	98	209	201	170								
NK Brand	N59-Q9	207	26.5	53	13	101	212	225 *	185	226	25.6	54	1	102 *	232	230	215
Pioneer	34G13	209	26.6	56	12	102	227 *	221	180								
Dekalb	DK567	214 *	26.8	54	16	102	236 *	224 *	182	234 *	27.5	55	3	102 *	248	242	212
Growmark	FS6141	196	26.8	54	13	99	204	220	164								
Growmark	FS5221	214 *	27.0	53	14	103 *	245 *	228 *	169								
US Seeds	USC1109Bt	198	27.0	52	15	99	193	211	191								
Dairyland	Stealth 1507	210	27.0	53	12	102	236 *	232 *	163								
O'Brien	OB0709	213 *	27.1	53	14	103 *	225 *	232 *	184								
AgriGold	A6428	191	27.1	53	12	98	201	198	174								
AgriPro	AP9466	222 *	27.1	53	7	106 *	240 *	235 *	191								
High Cycle	7638Bt	213 *	27.1	52	14	103 *	217	223	199								
Pioneer	34B23	216 *	27.1	57	19	102	226 *	240 *	184								
Agripro	AP9511IMI	199	27.3	54	10	100	200	209	188	222	25.3	55	1	101	249 *	227	189
Dairyland	Stealth 1410	212	27.4	52	11	103 *	219	217	200	237 *	26.0	55	1	104 *	254 *	251	207
Renk	RK806	208	27.5	53	16	101	224 *	221	180								
Pioneer	34G82	221 *	27.5	54	11	105 *	232 *	224 *	208 *	236 *	25.5	56	0	104 *	252 *	228	227 *
Wyffels	W552	194	27.6	54	12	98	207	200	173	208	25.7	55	3	97	219	208	197
Cornelius	C600RR	215 *	27.6	52	14	103 *	224 *	219	204 *	229	26.6	53	1	102 *	240	243	204
US Seeds	USC1069Bt	203	27.6	54	17	100	211	208	191	214	24.5	56	1	99	225	225	191
US Seeds	USC1119RR	214 *	27.7	52	11	103 *	223	227 *	192	234 *	24.0	53	1	104 *	239	238	224 *
110-DAY HYBRID TRIAL AVERAGE##			27.7														
Hughes	5150	187	27.8	52	15	96	187	205	169								
Kaltenberg	K7001	194	28.1	52	12	98	212	202	170								
Cornelius	C578YG	198	28.2	53	12	99	204	218	173								
Carhart's Blue Top	CX1080A	197	28.2	52	14	98	210	202	180	236 *	22.3	55	2	105 *	254 *	242	213
Wyffels	W5460	216 *	28.2	52	15	103 *	231 *	236 *	182								

CONTINUED.

Table 5. 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	2000						1999									
		AVERAGE					ARL	JAN	LAN	AVERAGE					ARL	JAN	LAN
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A
AgriGold	A6390	194	28.3	52	17	97	208	206	167								
Jung	2706	206	28.3	53	16	100	217	210	191								
Renk	RK837	204	28.4	52	23	98	212	221	180								
US Seeds	USC1099ND	170	28.5	54	17	91	170	179	160	200	26.2	57	5	94	200	218	180
NK Brand	N65-A1	203	28.5	53	12	100	203	215	192								
US Seeds	USC1099	201	28.5	53	11	99	218	216	169	222	25.6	54	1	100	241	227	197
Kaltenberg	K7122Bt	208	28.5	52	7	102	219	227 *	178								
NK Brand	N58-D1	210	28.7	53	9	102	211	232 *	187	236 *	26.2	56	0	104 *	249 *	229	232 *
Golden Harvest	H8877	206	28.7	54	13	100	217	217	185								
Spangler	7558	214 *	28.8	53	9	103 *	231 *	222	188	236 *	26.9	55	1	103 *	244	245	220 *
Garst	8585GLS/IT	177	28.8	54	14	93	187	188	155								
Gutwein	2515	214 *	28.9	54	18	102	221	222	200								
Kaltenberg	K7107	218 *	28.9	53	9	104 *	235 *	224 *	194								
Hughes	5906	211	29.0	52	17	101	214	223	197	235 *	27.0	54	2	103 *	243	242	221 *
Ottillie	4777Bt	226 *	29.1	52	10	106 *	236 *	234 *	207 *								
Wyffels	W5540	200	29.2	53	17	98	220	204	176	216	28.5	54	0	98	221	223	202
Jung	2710	211	29.3	53	10	102	224 *	221	187	241 *	27.0	55	1	104 *	241	251	231 *
Lemke	SL68	206	29.5	52	18	99	218	219	181	238 *	26.9	54	1	104 *	248	254 *	212
Wyffels	W575Bt	199	29.6	53	13	98	205	206	185	213	27.4	54	1	98	218	222	198
AgriGold	A6427	208	29.6	54	16	100	224 *	218	181								
Brown	7041	201	29.6	52	16	98	215	208	179	230	27.5	54	0	102 *	239	236	216
Golden Harvest	H9230Bt	213 *	29.6	52	16	101	225 *	224 *	190	243 *	27.9	54	0	105 *	250 *	250	229 *
Wyffels	W700	210	29.6	52	13	101	226 *	216	190	238 *	27.7	54	1	103 *	254 *	238	222 *
Wyffels	W6570	220 *	29.6	52	18	103 *	229 *	230 *	201 *								
Garst	8464	202	29.7	53	16	98	218	227 *	162	233	27.9	54	0	102 *	245	241	214
Dairyland	Stealth 1412	198	29.7	52	16	97	216	232 *	145	237 *	26.8	55	1	103 *	249 *	242	220 *
Dairyland	Stealth 1609	197	29.7	53	12	98	215	210	166								
Kaltenberg	K7101	208	29.8	52	15	100	220	224 *	180								
AgriGold	A6469Bt	225 *	29.8	52	14	105 *	245 *	207	223 *								
Kaltenberg	K7001Bt	205	29.8	52	12	100	216	204	195	246 *	27.2	54	1	105 *	246	256 *	235 *
Ottillie	5267Bt	221 *	29.9	53	16	103 *	236 *	221	207 *								
Ottillie	5000	201	30.0	52	14	98	204	219	180								
Wyffels	W6980	197	30.1	52	12	98	209	214	167								
AgriPro	AP9559Bt	213 *	30.2	52	16	101	197	233 *	208 *								
Dekalb	DKC58-52	193	30.4	53	14	96	203	201	176								
Crows	4911Bt	213 *	30.5	52	19	100	211	235 *	193								
Wyffels	W5541	207	30.5	53	13	100	212	208	201 *								
Crows	4908	216 *	30.5	52	16	101	222	225 *	201 *								
M/W Genetics	G7711	219 *	30.7	53	16	103 *	216	228 *	214 *	237 *	26.9	55	1	103 *	248	247	215
M/W Genetics	G7706	205	30.7	52	20	98	217	215	183								
Dairyland	Stealth 1611	218 *	30.8	52	21	101	211	240 *	204 *								
High Cycle	HC540	204	31.3	53	14	98	221	229 *	163								
Wyffels	W7090	220 *	31.6	52	18	101	228 *	231 *	201 *								
Ottillie	4999	209	31.9	53	13	100	215	225 *	188								
Top Farm	TFsx2107	194	32.2	53	17	95	189	204	188	221	26.5	54	2	99	247	242	175
MEAN		205	27.8	53	14	100	215	217	183	218	24.8	55	1	100	231	226	198
LSD(0.10)**		13	1.5	1	6	4	21	16	22	12	1.9	1	2	3	14	14	17

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 which did not perform significantly less than the highest hybrid in the test.

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	2000							1999								
		AVERAGE					FON	GAL	HAN	AVERAGE					FON	GAL	HAN
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A
Carhart's Blue Top	CX290A	153	19.9	57	9	95	175	127	155	178	16.7	59	4	96	172	173	188
Dairyland	Stealth 1596	169	20.4	56	5	101	186	153	170								
Trelay	4001	163	20.4	56	7	99	161	161	166	202	19.0	57	2	101 *	198	194	213 *
Carhart's Blue Top	CX8500A	148	20.5	58	8	94	160	134	149								
Lemke	4020	161	20.5	56	7	98	158	155	169	195	18.7	57	1	100	194	189	203 *
Hughes	2760	169	20.5	56	4	101	174	164	170								
Kaltenberg	K4606	168	20.7	56	5	100	174	151	180 *	200	18.5	57	1	101 *	202	209	189
Carhart's Blue Top	CX1185A	129	20.7	58	9	88	148	109	130								
Asgrow	RX393YG	174	21.1	56	3	102	196	156	170								
Spangler	3401	166	21.2	55	4	100	174	156	167								
Carhart's Blue Top	CX125A	160	21.2	55	6	97	177	149	154								
Dahlco	X9963	179	21.4	56	5	103 *	204	156	175 *								
Dekalb	DKC47-72	172	21.8	56	2	101	193	161	162								
Dahlco	X9961	176	22.1	55	5	102	185	160	182 *								
Dekalb	DK507	173	22.1	56	6	101	190	161	167	204	20.1	58	1	101 *	220	192	200 *
Pioneer	38T27	181	22.2	58	14	102	195	176	173 *								
LG Seeds	LG2479Bt	173	22.3	54	4	101	199	170	150								
Kaltenberg	K4707	180	22.4	55	6	103 *	189	171	178 *	205	20.4	58	1	101 *	207	200	207 *
Carhart's Blue Top	CX1195A	152	22.4	57	7	94	170	150	135								
NK Brand	N43-C4	182	22.5	55	6	103 *	215 *	168	164								
High Cycle	7419Bt	175	22.5	54	7	101	196	156	173 *								
Garst	8830	176	22.6	54	7	102	183	171	176 *	204	19.4	57	1	101 *	209	197	205 *
Dekalb	DKC48-83	167	22.7	56	6	99	170	168	162								
Foundation	8766	168	22.7	55	8	99	187	153	163								
Carhart's Blue Top	CX3100A	173	22.7	55	8	100	195	159	165								
Renk	RK569	176	22.8	55	5	102	193	161	174 *	204	20.0	58	1	101 *	205	199	209 *
95-DAY HYBRID TRIAL AVERAGE##			22.8														
Dahlco	2472	161	22.8	54	8	97	180	154	150	195	18.9	57	1	99	208	188	189
Dekalb	DK493	179	22.9	54	7	102	185	176	177 *	201	20.7	56	1	100	194	200	208 *
NK Brand	NX4178	174	23.0	55	8	101	191	169	164								
Golden Harvest	EX97153	173	23.1	55	5	101	188	163	168								
Golden Harvest	H2315	169	23.2	55	4	100	176	160	171								
LG Seeds	LG2473	178	23.2	55	6	102	194	173	167	207	19.9	58	1	102 *	216	194	210 *
US Seeds	USC980	165	23.2	56	3	98	188	152	155								
Dekalb	DKC49-92	170	23.3	55	8	99	174	175	162								
Golden Harvest	H7599	165	23.4	53	6	98	182	160	152								
AgriPro	AP9313	169	23.5	53	8	99	178	175	155								
Mycogen	2525	171	23.6	55	12	98	190	163	159	196	20.7	58	2	99	201	192	194
Hughes	2927	174	23.6	54	19	98	191	170	162	193	19.5	57	2	98	197	198	183
AgriPro	AP9280	178	23.6	56	12	101	196	171	168								
Dahlco	2475RR	136	23.6	57	6	90	143	124	142								
Dairyland	Stealth 1498	172	23.7	53	6	100	186	172	159								
Growmark	FS3969	192 *	23.7	56	5	106 *	206 *	189	181 *	206	20.5	58	2	102 *	204	216 *	199 *
Dahlco	2475	174	23.7	54	13	99	199	167	156	203	19.4	58	1	101 *	217	198	194
Jung	2510B	189 *	23.9	55	5	105 *	203	188	175 *								
Carhart's Blue Top	CX9510RR	153	23.9	53	6	94	164	149	147								
Spangler	4110	181	24.0	57	8	102	188	184	171	210	22.4	59	1	102 *	210	211 *	210 *
Lemke	4060	165	24.0	55	7	97	183	144	168								
Dekalb	DKC44-42	182	24.1	53	5	103 *	195	164	186 *								
Dairyland	Stealth 1496	172	24.2	53	11	99	177	166	172	198	19.3	57	2	100	194	202	198
Top Farm	TFsx2201	174	24.3	54	15	98	186	168	167								
LG Seeds	LG2484	160	24.3	55	5	96	193	143	144	204	22.5	57	0	100	211	190	209 *
Lemke	4066RR	185	24.4	53	10	103 *	187	185	184 *								
Kaltenberg	K4848Bt	180	24.5	53	17	100	191	182	167								
Crows	217Bt	196 *	24.6	55	8	106 *	200	207 *	181 *								

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Table 6. 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	2000									1999								
		AVERAGE					FON	GAL	HAN	AVERAGE					FON	GAL	HAN		
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A		
Top Farm	TFsx2299	183	24.6	57	6	103 *	200	182	166										
M/W Genetics	G7101Bt	199 *	24.6	55	8	107 *	211 *	200 *	188 *										
Dahlco	2475Bt	177	24.7	52	14	99	190	175	167										
100-DAY HYBRID TRIAL AVERAGE##		24.7																	
Pioneer	37M34	173	24.7	56	11	99	194	169	156										
Renk	RK606	172	24.8	57	5	100	185	169	164	210	21.8	59	1	102 *	209	218 *	203 *		
Trelay	5600	177	24.8	56	6	101	197	168	165	206	21.7	59	1	101 *	214	214 *	190		
Lemke	4040	185	25.0	57	5	103 *	201	183	171	205	21.6	59	0	101 *	201	215 *	199 *		
Trelay	5100	173	25.0	53	3	100	182	170	167										
Top Farm	TFsx7101Bt	183	25.0	52	13	101	209 *	165	173 *										
Carhart's Blue Top	CX1200A	170	25.1	53	11	98	180	168	164	199	19.7	57	0	100	207	194	195		
Jung	2488A	175	25.1	56	4	100	185	168	173 *	207	22.1	59	1	101 *	209	221 *	193		
Wensman	W5319Bt	161	25.2	54	5	96	181	155	146										
Kaltenberg	K4907	177	25.2	57	6	101	186	176	168	202	22.3	58	0	100	190	206	212 *		
Dairyland	Stealth 1496Bt	180	25.4	52	15	100	188	187	164										
Foundation	8763	183	25.4	56	5	103 *	195	180	175 *										
Mallard	UC2652	179	25.5	57	2	102	193	179	165										
Carhart's Blue Top	CX130AA	183	25.6	56	4	103 *	192	180	177 *	208	20.6	57	0	102 *	212	214 *	200 *		
Dahlco	X0001	189 *	25.6	53	5	104 *	210 *	171	185 *										
Dahlco	X8002	181	26.0	54	2	102	211 *	165	166										
Dairyland	Stealth 1299Bt	173	26.2	53	19	97	189	156	175 *	196	20.9	56	1	99	185	195	208 *		
US Seeds	USC1009RR	171	26.2	53	5	99	183	159	171										
Wensman	W5329Bt	175	26.3	56	1	100	199	170	157										
Lemke	EX5020	178	26.3	54	3	101	198	167	169										
Golden Harvest	EX97415Bt	168	26.3	54	5	98	182	159	165										
Brunner	S4868RR	170	26.7	53	4	98	178	156	176 *										
Carhart's Blue Top	CX102RR	166	27.4	52	8	96	176	157	165										
Asgrow	RX452YG	174	28.0	54	8	98	198	161	162										
AgriGold	XA5917	198 *	28.2	55	7	105 *	223 *	198 *	174 *										
Garst	8790Bt	187 *	28.2	53	14	101	205	176	180 *										
Brunner	EXP102	171	28.2	53	7	97	189	164	160										
AgriGold	XA6923	188 *	28.4	54	3	103 *	211 *	185	168										
LG Seeds	LG2488	195 *	28.5	54	8	104 *	215 *	200 *	170										
Brown	4641	180	30.0	53	8	99	210 *	163	165	200	20.7	57	1	100	206	188	206 *		
MEAN		173	24.0	55	7	100	189	166	166	200	20.2	57	1	100	202	199	198		
LSD(0.10)**		12	1.8	1	7	4	17	16	15	12	1.1	1	1	3	13	14	17		

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 which did not perform significantly less than the highest hybrid in the test.

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	2000						1999									
		AVERAGE					FON	GAL	HAN	AVERAGE					FON	GAL	HAN
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A
Cargill	4021Bt	176	22.6	56	7	101 *	190	176	162	209	21.7	59	1	101	198	216	213
Top Farm	TFsx2203	160	22.8	54	3	97	172	161	146								
Cargill	4521Bt	190 *	22.9	56	9	104 *	217 *	178	173	229 *	22.1	58	1	106 *	239 *	225	221
NK Brand	N45-T5	175	22.9	54	6	101 *	195	165	166								
Kaltenberg	K5151Bt	193 *	23.1	55	7	105 *	209 *	197 *	172								
Cargill	4111	185 *	23.2	56	5	104 *	196	190	170	206	20.7	59	2	101	205	211	203
Brown	6574	166	23.6	53	6	98	172	169	159								
Dairyland	Stealth 1502	174	23.8	54	2	101 *	179	184	158								
Cargill	4150LL	187 *	24.0	56	7	104 *	190	195 *	177 *								
Mallard	UCX2665	175	24.1	54	6	100	191	166	168								
Jung	2565	179	24.2	54	4	102 *	191	179	168								
Golden Harvest	H7798Bt	174	24.4	53	5	100	191	167	163	204	25.3	56	0	99	207	207	197
Spangler	4777	174	24.4	55	11	99	177	180	164								
Renk	RK695	164	24.5	53	10	96	170	162	159								
Kaltenberg	K5123	176	24.5	54	5	100	186	174	168								
Spangler	4300	179	24.6	54	3	102 *	193	179	166								
Renk	RK685	168	24.7	53	6	98	171	176	157								
Garst	8707	177	25.0	52	8	100	197	165	170	214	22.4	55	1	102	226 *	202	214
US Seeds	USC1059	175	25.1	55	7	99	194	178	153								
Pioneer	36R10	183	25.2	55	8	102 *	188	186	174	220	22.9	56	2	103 *	224 *	206	230
Dairyland	Stealth 1504Bt	169	25.2	53	12	97	173	174	159	203	24.6	57	1	99	192	209	209
Lemke	EX6070	177	25.2	54	9	100	200	146	185 *								
LG Seeds	LG2500Bt	156	25.3	54	7	94	173	143	152								
Renk	RK768	183	25.3	55	10	101 *	207 *	170	174								
Mycogen	2593	162	25.3	54	5	96	171	156	161	194	22.4	55	1	98	204	183	195
Mycogen	2566	166	25.3	53	2	98	171	177	152	195	22.1	55	1	98	198	195	191
M/W Genetics	G7491	189 *	25.4	54	7	103 *	222 *	173	173								
100-DAY HYBRID TRIAL AVERAGE##			25.5														
Kaltenberg	K6179	180	25.5	55	10	101 *	190	170	181 *								
Brown	5225	177	25.5	55	13	99	191	182	159								
US Seeds	USC1029Bt	185 *	25.7	53	9	101 *	210 *	184	161								
Growmark	FS4121	172	25.7	53	6	99	181	162	172								
AgriGold	A6269Bt	168	25.8	54	3	98	194	154	156								
Renk	RK668	183	25.8	56	4	102 *	198	194 *	158								
Dekalb	DKC53-32	171	25.8	53	11	98	187	160	167								
US Seeds	USC1030	176	25.8	51	6	100	198	181	149								
Crows	351	192 *	25.9	55	6	104 *	216 *	181	180 *								
Dahlco	X8054	177	26.1	54	6	100	195	171	164	222	24.8	56	3	103 *	228 *	232 *	205
Pioneer	36R11	191 *	26.2	55	13	103 *	213 *	186	175 *								
LG Seeds	LG2499	163	26.2	53	3	97	187	144	160	196	23.6	55	1	97	199	189	201
Top Farm	TFsx105Bt	192 *	26.2	54	9	104 *	206 *	198 *	173	203	24.3	56	0	99	214	211	185
Mycogen	2544IMI	176	26.3	54	13	98	193	165	170								
Carhart's Blue Top	CXP1500	170	26.5	53	4	98	191	172	147								
Golden Harvest	H7895	172	26.6	53	13	97	170	176	169								
Asgrow	RX508YG	170	26.7	52	4	98	191	156	162								
Pioneer	36D14	186 *	26.7	54	8	102 *	205 *	191	162	222	24.0	56	1	104 *	226 *	214	227
Pioneer	35R57	177	26.8	54	7	99	180	188	163								
Lemke	6060	177	26.8	51	7	99	191	168	172	222	24.6	54	2	103 *	230 *	215	220
105-DAY HYBRID TRIAL AVERAGE##			26.8														
Pioneer	36B08	181	27.0	56	2	101 *	200	184	160								
Golden Harvest	H2398	177	27.0	54	5	99	188	169	172	200	23.8	56	1	98	199	202	198
Pioneer	35R60	177	27.2	53	7	99	195	165	172								
Garst	8590IT	188 *	27.2	53	8	102 *	196	185	182 *								
Golden Harvest	H7773Bt	179	27.3	52	5	100	194	175	168	190	21.8	55	3	96	191	173	205
Dahlco	2660	187 *	27.3	52	5	102 *	197	188	177 *	225	24.4	54	2	104 *	233 *	228 *	216

CONTINUED.

Table 7. 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	2000						1999									
		AVERAGE					FON	GAL	HAN	AVERAGE					FON	GAL	HAN
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A
US Seeds	USC1079RR	177	27.4	52	3	100	205 *	174	153	219	24.7	56	1	102	225 *	215	217
Mycogen	2657	196 *	27.4	53	4	105 *	213 *	205 *	170	218	27.3	54	1	101	213	225	217
Geertson	GS1067	167	27.5	52	5	97	180	160	162								
O'Brien	OB9605	176	27.5	54	6	99	195	174	158								
Dairyland	Stealth 1406	185 *	27.5	52	8	101 *	197	192	164	210	25.9	54	1	100	231 *	188	210
Brunner	EXP104	177	27.6	52	9	98	196	171	163								
Garst	8640	176	27.6	52	13	98	189	179	160	213	23.1	56	2	102	217	217	206
Dairyland	Stealth 1404	187 *	27.6	52	5	102 *	196	194 *	173	216	25.7	54	1	101	227 *	213	210
Carhart's Blue Top	CX105A	171	27.6	54	9	97	171	164	177 *	205	24.2	57	1	99	207	199	208
Pioneer	35R58	192 *	27.7	54	5	103 *	215 *	181	181 *	223	24.6	56	0	104 *	222 *	225	221
Ramy Seed	PG1540	183	27.7	52	4	101 *	204 *	173	172								
Growmark	FS4481	184	27.9	53	4	101 *	203	187	163								
US Seeds	USC1109Bt	185 *	28.0	51	9	101 *	201	176	177 *								
US Seeds	USC1069Bt	187 *	28.0	53	11	101 *	202	186	173	210	27.2	55	1	99	216	202	211
Pioneer	34G82	194 *	28.1	53	5	104 *	209 *	190	182 *	239 *	27.5	55	0	106 *	226 *	241 *	251 *
Dairyland	Stealth 1606	188 *	28.2	52	16	100	201	182	180 *								
Golden Harvest	H8250	179	28.2	54	6	100	190	182	166	209	25.3	56	1	100	221 *	217	190
Mycogen	2652	194 *	28.2	52	4	104 *	212 *	186	184 *	220	27.3	54	3	101	222 *	224	214
Carhart's Blue Top	CX1056A	172	28.3	53	4	98	192	171	153								
AgriGold	A6365	181	28.4	53	4	100	195	184	164								
Mallard	UC2682	175	28.5	53	6	98	190	175	161	210	26.2	56	2	99	221 *	208	200
Dekalb	DK567	191 *	28.8	53	6	102 *	204 *	181	187 *								
Carhart's Blue Top	CX1080A	180	28.9	52	9	99	189	191	159	228 *	25.2	55	2	104 *	238 *	219	227
Top Farm	TFsx7202Bt	171	29.5	52	8	96	199	165	149								
US Seeds	USC1051ND	170	29.6	53	9	96	196	163	151								
NK Brand	N58-D1	198 *	30.1	53	1	105 *	192	211 *	191 *								
Dairyland	Stealth 1507	191 *	30.1	52	6	102 *	205 *	187	181 *	224	29.1	54	1	102	218	236 *	218
US Seeds	USC1099ND	153	32.4	52	13	89	157	150	152								
MEAN		178	26.4	53	7	100	193	176	166	208	24.0	56	1	100	212	206	206
LSD(0.10)**		13	1.7	1	6	4	18	18	16	13	1.7	1	2	3	19	14	17

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 which did not perform significantly less than the highest hybrid in the test.

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	2000										1999									
		AVERAGE					CHP	MAR	SEY	VAL	AVERAGE					CHP	MAR	SEY	VAL		
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A		
Dahlco	X9861	126	17.6	57	7	92	99	145	135	126											
Dekalb	DK355	145	18.1	58	6	98	137	153	147	142											
Dahlco	X9841	125	18.5	58	2	92	144 *	123	122	111											
Golden Harvest	EX06085	113	19.2	56	5	88	123	120	113	97											
Brown	1967	159	19.4	57	4	102	145 *	162	167	162	174	18.6	59	2	101	154	190 *	164	189		
Top Farm	TFsx2289	130	19.4	57	4	93	122	146	137	116											
Jung	2370	156	19.5	57	5	101	125	171	169	158	178	20.5	57	2	101	168	186	167	193		
Pioneer	39A26	139	19.6	61	4	96	128	143	147	137	156	18.0	61	2	96	146	167	144	170		
Dahlman	D4501	160	19.6	57	6	102	151 *	161	167	160											
Dekalb	DK405	163	19.6	55	6	103 *	142 *	175	163	171	189	19.6	57	3	104	182 *	181	184	208		
Dekalb	DKC36-71	145	19.7	57	4	98	135	156	159	130											
Trelay	2009	157	19.7	57	3	102	141 *	162	173	152											
Lemke	3010	159	19.7	57	4	102	141 *	164	175	158											
Kaltenberg	K3456	151	19.8	56	2	100	137	163	161	141											
Spangler	2001	159	19.8	57	6	102	143 *	168	158	166											
Dairyland	Stealth 1289	146	19.9	54	6	98	125	162	155	142	185	19.7	57	4	103	166	192 *	181	199		
Pioneer	39D81	149	20.1	58	2	99	135	155	154	151	160	19.2	60	6	96	149	173	151	166		
Mycogen	2249IMI	135	20.3	58	4	94	124	146	155	116											
Jung	2233	163	20.3	56	6	103 *	149 *	167	180	156											
Dahlco	X8891	145	20.3	56	3	97	111	160	163	146	185	20.7	57	3	103	163	180	192 *	204		
NK Brand	N27-M3	155	20.3	59	6	100	132	170	175	144	196	20.9	60	0	106 *	179 *	195 *	199 *	209		
Dairyland	Stealth 1585	165	20.5	59	1	104 *	160 *	165	176	158											
Spangler	2777	162	20.5	57	2	103 *	140 *	181 *	167	161											
85-DAY HYBRID TRIAL AVERAGE##		20.5																			
Kaltenberg	K3303	163	20.5	58	2	104 *	151 *	171	169	162	180	18.7	61	1	103	164	190 *	176	191		
80-DAY HYBRID TRIAL AVERAGE##		20.5																			
Kaltenberg	K3333Bt	165	20.7	53	1	104 *	137	167	194 *	163											
Dahlman	1488	166	20.8	54	5	104 *	151 *	165	171	177	191	19.9	56	3	104	165	201 *	183	215		
Ramy Seed	PG1356	163	20.8	57	2	103 *	140 *	184 *	172	155											
Carhart's Blue Top	CX8500A	160	20.9	57	2	103 *	155 *	172	164	150											
Golden Harvest	EX96412	161	20.9	57	2	103 *	134	185 *	166	158											
Carhart's Blue Top	CX290A	165	20.9	56	4	104 *	145 *	173	177	167	176	19.6	57	4	100	184 *	156	168	197		
Renk	RK232	164	21.0	57	4	104 *	158 *	174	168	157	179	18.8	59	0	102	162	183	180	193		
Brown	2080	155	21.0	54	4	101	134	157	166	165											
NK Brand	N2555BT	165	21.1	58	3	104 *	142 *	171	185 *	161	196	20.3	59	0	106 *	184 *	190 *	200 *	211		
Lemke	3090	156	21.3	55	5	101	149 *	147	173	156	190	23.5	55	1	103	168	188	193 *	213		
Golden Harvest	H6229	137	21.3	56	2	95	123	156	154	116	157	20.3	58	1	95	160	144	146	177		
90-DAY HYBRID TRIAL AVERAGE##		21.3																			
Carhart's Blue Top	CX1185A	143	21.4	57	2	97	136	158	150	127	160	20.1	58	1	96	163	155	148	174		
Dairyland	Stealth 1089Bt	160	21.5	55	4	102	140 *	180 *	168	153											
Trelay	3700	157	21.5	55	6	101	145 *	159	169	156	178	22.2	55	1	100	171	147	188	205		
Dahlco	2140	136	21.6	57	4	94	128	154	145	116	163	20.1	58	0	97	154	159	159	177		
Trelay	1007	138	21.6	56	2	95	128	155	145	125											
Golden Harvest	EX96401Bt	144	21.8	56	1	97	137	138	148	151											
Wensman	W5088Bt	159	21.9	57	2	102	150 *	162	170	154	188	20.7	59	0	104	168	194 *	184	204		

CONTINUED.

Table 8. 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	2000										1999							
		AVERAGE					CHP	MAR	SEY	VAL	AVERAGE					CHP	MAR	SEY	VAL
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A
Dahlco	2287	147	22.1	57	2	98	141 *	152	159	137	171	21.0	59	2	99	160	159	179	187
Growmark	FS3091	156	22.3	57	5	100	129	173	175	149									
Renk	RK394	146	22.4	57	2	97	129	163	158	135									
Dekalb	DKC39-45	166	22.4	56	3	104 *	157 *	150	183 *	175									
LG Seeds	LG2367	153	22.5	57	3	99	132	162	161	155	183	21.4	59	2	102	170	182	175	206
Dairyland	Stealth 1490	168	22.6	54	4	104 *	156 *	164	184 *	168									
Spangler	1727	154	22.8	57	4	99	134	161	170	150	167	22.0	58	1	97	167	147	155	197
US Seeds	USC909	151	22.8	57	5	98	126	170	161	148	181	22.0	58	2	101	158	192 *	177	199
Carhart's Blue Top	CX1187A	156	23.4	56	4	100	150 *	164	161	148	172	21.5	59	1	99	157	164	168	199
Dahlco	2336	138	23.5	54	2	94	126	154	143	130	167	21.4	56	3	97	152	162	168	186
Golden Harvest	H6675	180 *	23.6	58	4	107 *	154 *	193 *	177	195 *	186	20.7	60	3	103	171	184	178	211
LG Seeds	LG2307	161	24.2	59	6	101	147 *	169	168	160									
Wensman	MAX 007	162	24.9	55	2	102	160 *	150	169	168									
MEAN		153	21.0	57	4	100	138	161	163	149	176	20.7	58	2	100	164	172	171	195
LSD(0.10)**		11	0.9	1	3	4	20	14	13	14	12	1.0	1	2	3	21	21	21	14

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 which did not perform significantly less than the highest hybrid in the test.

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	2000										1999								
		AVERAGE					Yield bu/A	MAR Yield bu/A	SEY Yield bu/A	VAL Yield bu/A	AVERAGE					CHP Yield bu/A	MAR Yield bu/A	VAL Yield bu/A		
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #					Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #					
Mallard	UC2420	151	20.7	54	3	97	140	167	169	125										
Jung	2436	146	21.0	54	3	95	146	157	165	116	180	21.6	54	1	99	163	174	202		
Lemke	4020	145	21.0	55	7	94	148	160	153	117	195 *	21.5	54	2	103 *	187 *	194	203		
Carhart's Blue Top	CX125A	145	21.0	54	3	95	138	159	175	109										
Dairyland	Stealth 1596	153	21.3	55	3	97	147	165	176	122										
M/W Genetics	G6956	145	21.4	54	4	95	147	158	167	108	194 *	21.0	55	1	103 *	186 *	192	204		
Dahlco	2394	147	21.4	55	4	95	144	167	163	114										
Top Farm	TFsx2295	149	21.5	54	4	96	140	159	179	117										
Foundation	8804	147	21.5	55	3	95	155	163	155	116										
Brown	3277	162	21.5	54	3	100	157	155	165	169										
Kaltenberg	K4606	149	21.6	54	4	96	153	159	168	116	185	21.2	54	1	100	164	179	210		
Jung	2430	164	21.6	55	3	100	152	157	186	161	169	22.3	53	1	96	160	166	181		
Top Farm	TFsx7191Bt	165	22.2	53	4	100	164	167	176	154										
Garst	8894Bt	162	22.2	55	1	100	159	169	172	149										
NK Brand	N3030BT	166	22.3	56	4	101	157	177	176	154	187	22.0	56	0	101 *	178	182	199		
Wensman	W5258Bt	162	22.4	57	6	99	158	170	172	146	186	21.6	57	1	101 *	177	178	201		
Pioneer	38P05	170	22.5	56	2	102	175	175	175	155	197 *	21.1	58	0	104 *	183 *	208 *	201		
Dekalb	DKC42-22	178	22.8	55	0	105 *	178 *	168	185	181 *										
Dairyland	Stealth 1492	145	22.8	52	4	94	129	147	163	142										
Pioneer	38K06	168	22.8	55	4	101	161	161	174	175 *	178	20.9	56	3	99	152	192	190		
Dekalb	DKC47-72	158	23.1	54	1	98	150	163	168	151										
Geertson	GS929	141	23.4	55	5	92	131	143	155	134										
Dahlman	1699	185 *	23.5	53	6	106 *	182 *	186 *	186	186 *	197 *	21.3	54	1	104 *	177	206 *	207		
Dekalb	DKC48-83	169	23.5	54	4	101	170	164	175	169										
LG Seeds	LG2442	182 *	23.6	53	7	104 *	179 *	176	202 *	173 *	198 *	22.7	54	3	103 *	179	204 *	212 *		
Carhart's Blue Top	CX1195A	158	23.7	55	2	98	150	163	167	152										
M/W Genetics	G7010	188 *	23.8	52	1	107 *	178 *	185 *	208 *	179 *	195 *	22.4	54	1	103 *	166	204 *	215 *		
95-DAY HYBRID TRIAL AVERAGE##			23.8																	
Dekalb	DK440	167	23.8	52	3	100	170	162	176	160	203 *	22.7	54	1	105 *	200 *	191	218 *		
Pioneer	38T27	178	23.8	55	4	104 *	180 *	179	189	166										
Jeske	SX224	152	23.8	54	4	96	151	159	157	140										
Carhart's Blue Top	CX1200A	184 *	23.9	52	2	106 *	179 *	184 *	195	179 *	199 *	23.2	53	1	103 *	181	199	218 *		
Golden Harvest	EX96600	170	24.0	54	5	101	169	163	170	177 *										
Pioneer	38K07	168	24.0	55	3	101	166	161	176	171										
Trelay	4002	173	24.0	53	5	102	180 *	176	174	164	195 *	21.4	55	1	103 *	165	211 *	211 *		
90-DAY HYBRID TRIAL AVERAGE##			24.0																	
Dairyland	Stealth 1496	180 *	24.0	52	6	104 *	180 *	181	186	172	189	22.8	54	2	101 *	173	187	208		
Top Farm	TFsx7196Bt	167	24.1	52	3	100	174	157	194	145										
Dahlco	2475	180 *	24.2	53	4	104 *	184 *	171	185	182 *	197 *	23.6	54	1	103 *	182	204 *	205		
Brunner	S4244Bt	165	24.2	52	2	100	162	164	191	145										
Top Farm	TFsx2201	183 *	24.2	53	9	104 *	178 *	183 *	194	179 *	198 *	23.5	54	1	103 *	181	197	215 *		
Garst	8830	173	24.3	52	1	102	177 *	184 *	186	143	192 *	23.5	53	1	101 *	180	186	209		
Asgrow	RX393YG	177	24.4	53	1	103	184 *	171	192	161										
Dekalb	DK507	167	24.4	53	2	100	165	168	184	153	194 *	26.1	53	0	101 *	187 *	191	204		
Golden Harvest	H2309	166	24.4	53	3	100	166	147	185	166										
NK Brand	NX4178	166	24.4	52	2	100	167	169	176	150										
Golden Harvest	EX96675Bt	173	24.6	56	1	102	168	164	197 *	163										
Dahlco	2472	158	24.6	52	3	97	171	154	162	143										
Kaltenberg	K4848Bt	190 *	24.6	52	6	106 *	178 *	194 *	208 *	181 *										
Golden Harvest	H2315	168	24.8	53	5	100	166	164	181	161	186	22.7	54	1	100	166	192	199		
Dairyland	Stealth 1498	167	24.8	52	2	100	162	164	176	165										
Dekalb	DKC46-26	181 *	24.8	53	2	104 *	183 *	181	197 *	162										
AgriPro	AP8830	165	24.9	52	3	99	163	173	194	129										
US Seeds	USC1009	164	24.9	53	2	99	160	159	173	165	200 *	24.8	53	2	103 *	185 *	199	216 *		
Mycogen	2424	165	25.0	55	3	99	166	171	176	148	178	23.6	57	0	98	171	177	187		

CONTINUED.

Table 9. 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	2000										1999						
		AVERAGE					Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	AVERAGE					Yield bu/A	Yield bu/A	Yield bu/A
		Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #					Yield bu/A	Moist %	Test Wt.	Lodged %	P.I. #			
US Seeds	USC1009RR	182 *	25.0	52	1	105 *	189 *	182	191	166								
Carhart's Blue Top	CX9510RR	148	25.1	52	2	94	142	157	156	138								
Top Farm	TFsx8201RR	182 *	25.1	53	3	104 *	185 *	180	192	172								
Dekalb	DKC49-92	163	25.2	52	3	98	170	156	177	150								
Pioneer	3751	174	25.5	53	3	102	182 *	175	183	155								
Pioneer	37M34	181 *	25.6	54	5	103	175	190 *	200 *	161								
Jung	2455	174	25.7	52	3	101	173	181	184	157								
Growmark	FS3621	179 *	25.7	53	3	103	181 *	186 *	189	161								
Renk	RK569	184 *	25.7	52	4	104 *	190 *	195 *	192	160	202 *	24.7	55	0	104 *	195 *	190	222 *
Brunner	S4709	172	25.7	50	4	101	171	179	184	155								
100-DAY HYBRID TRIAL AVERAGE##			25.7															
Top Farm	TFsx2299	178	25.7	55	2	103	176	174	199 *	164								
Growmark	FS3969	179 *	25.8	53	3	103	185 *	175	209 *	150	193 *	24.9	54	0	101 *	189 *	179	212 *
Top Farm	TFsx2297	177	25.8	53	4	102	180 *	180	191	157								
Wensman	MAX 127	157	25.8	55	2	96	155	165	176	131	189	24.5	56	0	101 *	188 *	179	200
Carhart's Blue Top	CX130AA	169	25.9	55	3	100	172	170	174	161	189	24.8	56	1	100	173	191	203
Mallard	UCX2440	169	25.9	53	2	100	169	170	182	154								
Dahlman	R1730Bt	177	26.0	50	1	103	172	181	187	170								
Renk	RK606	163	26.1	55	2	98	166	159	171	155	194 *	25.0	55	1	101 *	179	186	216 *
Kaltenberg	K4707	175	26.1	52	2	102	165	184 *	193	158	196 *	24.3	54	0	102 *	188 *	191	209
Dekalb	DKC44-42	188 *	26.1	51	1	106 *	184 *	182	212 *	172								
Kaltenberg	K5151Bt	177	26.1	53	2	102	177 *	178	189	162								
Top Farm	TFsx7101Bt	169	26.2	50	2	100	173	172	196	135								
Kaltenberg	K4822RR	177	26.2	51	4	102	173	169	191	176 *								
Wensman	W5319Bt	161	26.3	53	2	98	155	162	167	160								
US Seeds	USC980	162	26.3	54	2	98	178 *	155	171	145								
Carhart's Blue Top	CX102RR	177	26.5	51	2	102	179 *	167	187	173 *								
Mycogen	2525	176	26.6	52	2	102	163	180	193	167								
Carhart's Blue Top	CX3100A	162	26.7	52	4	97	168	177	168	134								
Cargill	4150LL	170	26.7	53	3	100	173	158	197 *	153								
Jung	2488A	168	26.8	55	3	99	168	161	182	162								
Dairyland	Stealth 1298Bt	175	27.0	53	5	101	166	174	192	166	191	24.2	54	1	101 *	175	194	205
Renk	RK685	156	27.2	50	5	95	159	157	172	135								
Dairyland	Stealth 1099RR	175	27.3	51	2	101	175	172	187	167	199 *	24.1	53	1	103 *	196 *	187	213 *
Top Farm	TFsx8103RR	176	27.3	52	1	102	185 *	175	168	175 *								
Dairyland	Stealth 1402	170	27.9	51	3	99	166	159	184	173 *	197 *	25.9	53	0	102 *	176	189	226 *
Asgrow	RX452YG	164	28.9	52	2	97	160	160	190	144								
US Seeds	USC1029Bt	166	29.0	52	3	98	175	150	189	152								
AgriPro	AP9170	148	29.1	54	5	92	127	143	162	161								
Kaltenberg	K5123	181 *	29.6	52	1	102	178 *	173	194	181 *								
Dahlman	D5101	175	30.1	51	2	100	181 *	177	181	161								
Brown	4641	177	30.3	52	2	101	187 *	165	178	179 *	200 *	24.1	54	2	103 *	196 *	185	219 *
MEAN		168	24.7	53	3	100	167	169	181	155	186	23.2	55	1	100	174	184	201
LSD(0.10)**		11	1.2	1	4	3	13	12	15	13	13	1.5	1	2	4	19	18	16

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 which did not perform significantly less than the highest hybrid in the test.

Shaded results provide the best estimate of relative hybrid performance.

Table 10. Northern Zone Grain Trial (page 1 of 2)

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

		2000								1999							
BRAND	HYBRID	AVERAGE				WHL	SPD	SPI	SPS	AVERAGE				WHL	SPD	SPI	SPS
		Yield bu/A	Moist %	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A
Pioneer	39W54	94	19.2	2	91	107	84	109	77								
NK Brand	N09-A4	112	19.7	0	98	110	96	141	103								
LG Seeds	LG2227	98	20.2	1	93	116	84	99	94	160	18.6	0	101	146	169	154	170 *
Pioneer	39A26	121	20.7	0	102	134 *	104	137	110	158	19.6	1	100	154 *	159	165	155
Dekalb	DKC26-75	87	20.8	0	87	86	81	107	74								
Carhart's Blue Top	CX8500A	131	21.0	0	105 *	120 *	125 *	160	118								
Pioneer	39D81	122	21.0	1	101	121 *	107	147	114	169	21.5	0	103 *	164 *	177	179	156
Mycogen	2141	129	21.0	0	104 *	107	123 *	162	125 *	173 *	20.4	0	104 *	150	183	187 *	174 *
75-DAY HYBRID TRIAL AVERAGE##		21.1															
Dekalb	DKC29-95	97	21.2	0	92	109	80	102	98								
Pioneer	3936	116	21.2	0	99	121 *	95	134	112	159	20.5	1	100	156 *	163	168	150
Renk	RK232	130	21.4	1	104 *	116	125 *	156	121	181 *	21.8	0	106 *	151	198 *	195 *	179 *
Garst	8956	125	21.5	1	102	113	114	155	116								
Dairyland	Stealth 1585	129	21.7	0	104 *	111	129 *	164	110								
NK Brand	N17-R3	127	21.9	0	103	115	114	165	113	165	21.4	0	102	148	180	170	163 *
Dairyland	Stealth 1277	111	21.9	0	97	111	108	122	104								
80-DAY HYBRID TRIAL AVERAGE##		22.1															
Kaltenberg	K2345	106	22.2	1	94	97	85	127	116								
Jung	2240	125	22.2	0	102	115	123 *	144	118								
Dairyland	Stealth 1280	127	22.3	0	103	105	125 *	158	118	162	23.7	0	100	142	179	176	153
Brown	1967	128	22.3	0	103	111	118	160	122								
Top Farm	TFsx2182	127	22.4	0	103	110	128 *	157	111	163	22.7	0	100	150	177	169	156
Golden Harvest	EX06085	106	22.5	0	94	100	96	125	104								
Garst	8975	129	22.5	0	103	118	120	167	109	158	22.9	0	99	143	174	179	137
Kaltenberg	K3303	122	22.9	0	101	111	127 *	145	105								
Kaltenberg	K3456	121	23.0	0	100	111	122 *	137	112								
Jung	2178	120	23.1	0	100	113	119	137	110								
Dekalb	DKC36-71	130	23.2	0	104 *	118	126 *	148	130 *								
Wensman	W5088Bt	144 *	23.3	0	109 *	123 *	131 *	194 *	128 *	179 *	23.9	0	105 *	162 *	183	201 *	169 *
85-DAY HYBRID TRIAL AVERAGE##		23.3															
LG Seeds	LG2333	111	23.6	0	96	99	115	129	101	160	21.5	0	100	140	169	172	160
Wensman	W5048Bt	136 *	23.8	1	106 *	103	139 *	175 *	129 *	161	25.1	0	99	157 *	158	169	158
Mycogen	2249IMI	124	23.8	0	101	107	109	164	116								
Mycogen	2242	121	23.9	0	100	120 *	95	144	124	167	23.9	0	101	147	176	188 *	156
Dairyland	Stealth 1485	120	23.9	0	99	117	108	145	109	161	23.0	0	99	143	170	178	151
Wensman	W5018Bt	122	24.0	0	100	108	129 *	144	106	166	21.3	0	102	162 *	182	170	150
Carhart's Blue Top	CX1185A	118	24.0	0	98	105	105	151	112	164	23.6	1	100	146	176	174	161
Top Farm	TFsx2175	104	24.1	0	93	95	91	126	107	153	20.1	1	99	142	156	167	148
Brunner	S2495	128	24.4	0	102	123 *	127 *	149	114								
Pioneer	3893	131	24.4	1	103	116	121 *	156	130 *								
Wolf River Valley	9883L	98	24.5	0	90	99	85	121	87	149	25.2	2	94	122	155	158	160
NK Brand	N2555BT	145 *	24.8	0	109 *	135 *	136 *	175 *	134 *	179 *	25.6	0	104 *	162 *	186 *	193 *	174 *
Kaltenberg	K2909	131	25.0	0	103	114	114	163	131 *	169	24.8	0	101	151	176	177	173 *
Growmark	FS3091	143 *	25.0	0	108 *	124 *	136 *	173	138 *								
Jeske	J16	103	25.0	0	92	86	106	129	92								
Kaltenberg	K2468	102	25.0	1	91	98	70	138	103								
90-DAY HYBRID TRIAL AVERAGE##		25.1															
Carhart's Blue Top	CX1187A	127	25.2	0	102	108	127 *	154	120	167	25.4	1	100	150	175	177	167 *
Growmark	FS2131	132	25.5	0	104 *	121 *	129 *	153	123								
Brunner	EXP84	128	25.5	0	102	109	121 *	161	121	163	26.0	1	99	146	179	180	149

CONTINUED.

Table 10. Northern Zone Grain Trial (page 2 of 2)

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

BRAND	HYBRID	2000								1999															
		AVERAGE				WHL	SPD	SPI	SPS	AVERAGE				WHL	SPD	SPI	SPS								
		Yield bu/A	Moist %	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A	Moist %	Lodged %	P.I. #	Yield bu/A	Yield bu/A	Yield bu/A	Yield bu/A								
Top Farm	TFsx7187Bt	127	25.6	0	101	106	124 *	155	123	172 *	26.6	1	101	153	180	189 *	167 *								
US Seeds	USC909	130	25.8	0	102	124 *	123 *	153	119																
Brown	2080	131	25.9	0	102	122 *	110	175 *	115																
Brunner	S3721Bt	121	25.9	0	99	97	121 *	147	119																
Jung	2285	127	26.1	0	101	104	121 *	160	121																
Geertson	GS889	126	26.5	0	100	108	135 *	154	106																
Renk	RK394	124	26.6	0	99	112	115	152	116																
Brunner	Exp85Bt	130	26.8	0	102	100	142 *	162	117																
MEAN		121	23.4	0	100	111	114	148	113									163	23.3	0	100	147	173	175	157
LSD(0.10)**		12	1.2	1	5	15	21	20	13									9	1.3	1	3	10	13	16	17

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 which did not perform significantly less than the highest hybrid in the test.

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	2000										1999							
		AVERAGE										AVERAGE							
		Kernel										ARL Yield T/A	LAN Yield T/A	Yield			ARL Yield T/A	LAN Yield T/A	
		Yield T/A	Moist %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	MILK PER			T/A	TON	ACRE			
Kaltenberg	K8104LF	7.9	52.7	10	6.9	25	49	73	44	30	2700	21200	8.2	7.5	9.3 *	2940	27500 *	9.7	9.0 *
Dairyland	Stealth 1406	8.8 *	55.1	20	6.2	22	46	74	43	35	2700	23800 *	10.1 *	7.5	9.2 *	2900	26800	10.2 *	8.3
Pfister	2025	8.6 *	55.9	20	6.6	26	52	71	43	29	2520	21600	9.7 *	7.4					
Growmark	FS4481	8.7 *	56.1	40	7.2	22	44	76	45	32	2940 *	25200 *	9.8 *	7.6					
Cornelius	C518	8.5 *	56.2	20	6.3	25	51	71	44	29	2580	22100	8.9	8.2					
Pioneer	36D14	8.4 *	57.7	20	6.7	24	50	72	44	31	2670	22500 *	9.3 *	7.4					
Pioneer	35R60	8.7 *	57.9	30	6.6	25	51	72	45	31	2690	23300 *	8.3	9.0 *					
Pioneer	35R58	9.2 *	58.5	20	6.4	25	50	72	45	30	2710	24700 *	9.4 *	8.9 *	9.8 *	3090 *	30200 *	9.5	10.1 *
Dairyland	Stealth 1492	6.2	60.0	10	6.3	28	56	70	47	26	2610	15800	8.1	4.3					
Cornelius	C408YG	9.5 *	60.3	40	6.6	24	49	73	44	32	2760	26300 *	9.3 *	9.7 *					
105-DAY HYBRID TRIAL AVERAGE##		60.5																	
NK Brand	N48-V8	8.7 *	60.5	40	6.3	27	53	71	45	26	2620	22700 *	8.8	8.6 *					
Pioneer	35N05	8.6 *	61.1	40	6.4	26	51	72	45	28	2710	23200 *	9.7 *	7.5	10.0 *	2850	28400 *	10.4 *	9.5 *
Geertson	GS1049	8.4 *	61.3	40	6.3	24	48	73	44	32	2810 *	24100 *	8.4	8.5 *					
Trelay	7002	7.9	61.8	30	6.7	23	47	73	43	32	2810 *	22300 *	8.3	7.5					
US Seeds	USC1051ND	8.4 *	62.5	30	7.6	23	48	73	44	32	2840 *	24000 *	8.4	8.4 *					
Wyffels	W4920	8.3 *	63.1	30	6.4	24	49	73	44	30	2820 *	23500 *	9.8 *	6.7					
Trelay	6900	8.4 *	63.6	30	6.5	22	44	75	43	34	2970 *	25000 *	9.0	7.8					
Carhart's Blue Top	CX1056A	8.2 *	63.6	40	6.6	24	48	73	44	31	2880 *	23600 *	8.4	8.0					
Trelay	7004	8.1 *	64.2	30	6.4	25	50	72	45	28	2830 *	23200 *	9.3 *	7.0	9.6 *	2900	27800 *	10.3 *	8.8 *
LG Seeds	LG2526SP	9.0 *	64.2	30	6.5	24	48	73	44	30	2850 *	25600 *	10.3 *	7.7	9.5 *	2900	27500 *	10.3 *	8.6
Pfister	2024	8.2 *	64.2	40	6.6	25	50	72	43	29	2750	22900 *	9.0	7.5					
MEAN		8.4	60.0	30	6.6	24	49	73	44	30	2750	23200	9.1	7.8	9.3	2900	27100	10.0	8.7
LSD(0.10)**		1.4	5.2	10	0.6	3	4	2	2	5	190	4000	1.2	1.3	1.0	100	3100	1.2	1.4

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 which did not perform significantly less than the highest hybrid in the test.

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 2000.

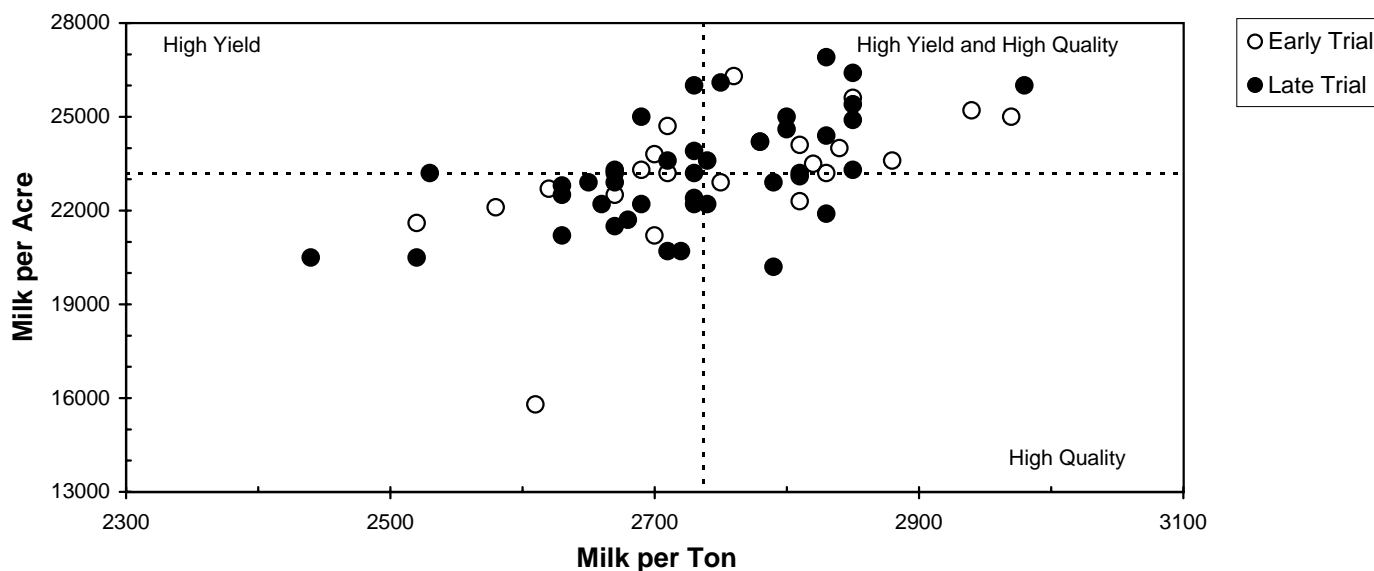


Table 12. Southern Zone - Late Maturity Silage Trial

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

BRAND	HYBRID	2000											1999								
		AVERAGE											ARL		LAN		AVERAGE			ARL	LAN
		Kernel											Yield	Yield	Yield	MILK PER		Yield	Yield		
		Yield	Moist	Milk	CP	ADF	NDF	IVD	CWD	Starch	MILK PER		T/A	T/A	T/A	TON	ACRE	T/A	T/A		
Hughes	5597	8.4	53.8	30	6.7	26	52	70	42	29	2440	20500	8.4	8.4 *	9.5	2800	26700	9.8	9.3		
Renk	RK775	9.2 *	54.1	30	6.6	24	49	71	41	33	2530	23200	9.9 *	8.4 *	9.5	2850	27100	10.2	8.8		
Carhart's Blue Top	CX1080A	8.8 *	56.2	30	6.6	22	46	74	43	35	2730	23900 *	9.4 *	8.3 *	9.7	2870	28000	11.2	8.3		
Pioneer	34B23	9.3 *	58.2	40	6.6	26	51	72	45	29	2690	25000 *	9.5 *	9.0 *							
Pioneer	34G82	8.7 *	58.6	30	6.7	26	50	72	44	30	2670	23300	9.5 *	8.0	9.6	3070 *	29500	9.9	9.3		
Dekalb	DK567	8.8 *	59.3	40	6.6	23	47	74	44	34	2800	24600 *	9.2 *	8.4 *							
Kaltenberg	K7122Bt	8.2	59.5	40	6.6	26	51	70	41	30	2520	20500	9.1 *	7.2							
Asgrow	RX637	8.6 *	59.8	40	6.8	23	47	73	42	33	2740	23600 *	9.4 *	7.7							
Trelay	9095	8.9 *	60.1	40	6.4	23	47	74	44	34	2800	25000 *	9.0 *	8.8 *							
Dairyland	Stealth 1410	8.3	60.8	30	7.0	25	51	71	44	27	2690	22200	9.1 *	7.4	10.0	2990	30100	10.8	9.3		
Dairyland	Stealth 1508	8.2	61.0	30	7.0	24	48	73	44	31	2790	22900	9.7 *	6.7	9.6	2990	28800	10.0	9.3		
105-DAY HYBRID TRIAL AVERAGE##		61.0																			
Golden Harvest	H9230Bt	8.7 *	61.3	50	6.8	24	48	72	41	32	2670	23200	9.5 *	7.8	10.4	3030	30900 *	11.0	9.9 *		
Wyffels	W700	8.2	61.3	40	6.6	24	48	74	45	31	2850 *	23300	8.4	7.9	9.6	3030	29200	9.9	9.4		
Spangler	7558	9.3 *	61.3	40	6.5	23	46	74	43	34	2850 *	26400 *	10.1 *	8.5 *							
Dairyland	Stealth 1507	8.6 *	61.5	40	7.0	26	51	71	43	28	2630	22500	9.4 *	7.8							
Golden Harvest	H8250	8.7 *	61.6	30	6.3	24	48	73	43	32	2780	24200 *	8.8 *	8.6 *							
110-DAY HYBRID TRIAL AVERAGE##		61.7																			
Wyffels	W742	8.6 *	61.7	50	6.9	26	51	71	44	28	2670	22900	8.2	8.9 *							
Pioneer	34G13	8.3	62.0	40	6.7	26	51	71	43	28	2660	22200	9.1 *	7.5							
Geertson	GS1099	8.8 *	62.0	20	6.7	25	50	72	44	30	2710	23600 *	9.0 *	8.6 *	10.6 *	2930	31000 *	10.2	11.0 *		
Dekalb	DKC58-52	8.1	62.0	50	6.3	26	51	71	43	29	2680	21700	8.6	7.6							
Hughes	5906	8.3	62.1	40	6.6	24	49	72	43	31	2730	22400	9.1 *	7.4							
Cornelius	C597YG	8.8 *	62.3	40	7.0	23	47	75	47	30	2980 *	26000 *	9.1 *	8.4 *							
High Cycle	HC540	8.1	62.3	50	7.4	25	51	72	45	27	2740	22200	9.4 *	6.9							
Kaltenberg	K7001Bt	8.6 *	62.4	40	7.0	23	47	73	43	31	2830 *	24400 *	8.8 *	8.5 *							
Kaltenberg	K5959Bt	7.7	62.4	40	6.7	24	49	73	44	30	2830 *	21900	7.8	7.7							
Golden Harvest	H8562	8.8 *	62.6	40	6.9	24	48	73	45	30	2850 *	24900 *	9.8 *	7.8							
Wyffels	W7090	9.5 *	62.8	40	6.9	24	48	73	43	32	2830 *	26900 *	10.1 *	8.8 *							
Kaltenberg	K8110LF	9.5 *	62.8	60	6.9	26	52	71	45	27	2730	26000 *	9.4 *	9.7 *							
NK Brand	N67-T4	8.8 *	62.8	40	6.6	24	48	72	42	30	2780	24200 *	9.5 *	8.0							
US Seeds	USC1099ND	7.6	63.4	30	7.3	26	52	71	45	27	2720	20700	8.6	6.6							
Thurston	TE7565	8.0	63.6	40	7.5	27	53	70	43	26	2630	21200	7.4	8.6 *							
NK Brand	N59-Q9	8.2	63.7	50	6.5	25	49	72	44	29	2810 *	23100	9.4 *	7.0							
Dekalb	DK611	9.5 *	63.7	50	6.7	26	50	72	43	28	2750	26100 *	10.0 *	9.1 *							
Renk	RK837	8.6 *	64.0	40	6.9	27	53	70	44	26	2650	22900	9.3 *	7.9							
Dairyland	Stealth 1412	8.1	64.0	40	6.3	26	51	71	42	30	2670	21500	8.8 *	7.4	10.1	3060 *	30900 *	10.9	9.3		
Renk	RK896	8.9 *	64.8	50	6.8	24	49	73	44	30	2850 *	25400 *	9.5 *	8.3 *							
M/W Genetics	G7711	8.3	64.9	50	6.6	26	50	72	45	29	2810 *	23200	9.2 *	7.4	9.8	3050 *	30000	10.3	9.3		
Garst	8464	7.3	65.0	30	6.5	25	50	72	44	28	2790	20200	7.3	7.2							
Brown	7041	7.6	65.3	30	6.5	25	50	71	42	28	2710	20700	8.8 *	6.5							
NK Brand	N58-D1	8.2	65.3	30	6.4	26	52	71	44	25	2730	22200	8.5	7.8							
Golden Harvest	H9229	8.5 *	67.2	60	7.0	26	51	71	43	26	2730	23200	8.4	8.6 *							
AgriPro	HY9646	8.6 *	67.6	60	6.9	29	56	69	44	22	2630	22800	9.4 *	7.9							
MEAN		8.5	61.9	40	6.7	25	50	72	44	29	2730	23300	9.1	8.0	9.5	2970	28300	10.2	8.9		
LSD(0.10)**		1.0	3.5	10	0.5	3	4	3	2	5	170	3400	1.3	1.4	0.8	110	2900	1.1	1.2		

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 which did not perform significantly less than the highest hybrid in the test.

Shaded results provide the best estimate of relative hybrid performance.

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	2000											1999							
		AVERAGE											AVERAGE							
		Kernel											FON	GAL	Yield				FON	GAL
											Yield	Yield	Yield	MILK PER			Yield	Yield		
											T/A	T/A	T/A	TON	ACRE	T/A	T/A			
Asgrow	RX430	8.1	46.9	30	6.3	25	50	71	42	32	2440	19500	9.0 *	7.1						
Carhart's Blue Top	CX125A	8.0	52.6	30	6.3	25	50	71	42	31	2530	20800	8.2	7.9 *						
Asgrow	RX452YG	9.3 *	53.8	40	6.6	23	47	73	42	33	2710	24900 *	10.4 *	8.1 *						
AgriPro	AP9280	9.3 *	54.5	20	6.9	22	45	73	40	35	2630	24500 *	9.7 *	9.0 *						
Carhart's Blue Top	CX9510RR	7.3	54.9	30	6.0	26	52	69	41	30	2380	17500	7.4	7.3						
NK Brand	N43-C4	7.9	56.0	30	6.9	22	45	74	43	34	2750 *	21800	7.8	8.1 *						
Dairyland	Stealth 1203	8.1	56.3	30	6.2	24	48	73	43	32	2670	21600	8.9 *	7.3	9.3	3030 *	28300	10.1	8.6 *	
Dairyland	Stealth 1499	7.7	57.8	30	6.6	24	49	72	44	30	2720	20700	7.7	7.6	8.9	2900	25800	9.5	8.2	
Dairyland	Stealth 1297	7.8	57.8	20	7.0	22	46	74	44	34	2820 *	22100	8.1	7.5	8.8	3130 *	27700	10.0	7.6	
Pioneer	38T27	9.0 *	58.1	20	6.9	25	50	70	40	30	2530	22800	9.0 *	9.0 *						
Geertson	GS998	8.7 *	58.6	30	7.1	22	44	74	41	34	2810 *	24300 *	9.4 *	7.9 *	8.9	2980	26500	10.1	7.6	
Dairyland	Stealth 1298Bt	7.9	58.6	20	7.1	21	44	75	43	35	2890 *	22900	8.1	7.7						
Carhart's Blue Top	CX130AA	9.2 *	58.7	50	6.7	22	46	74	43	32	2860 *	26100 *	10.0 *	8.4 *	9.6	2950	28300	10.9 *	8.2	
100-DAY HYBRID TRIAL AVERAGE##		59.2																		
Dahlco	X94L	8.3 *	59.3	50	7.1	26	50	71	42	27	2700	21900	9.5 *	7.0						
Growmark	FS3621	8.3 *	59.4	40	6.5	23	47	74	43	33	2810 *	23300 *	8.4	8.1 *						
Dairyland	DST10212	6.9	59.9	40	7.3	23	47	74	45	31	2870 *	19800	6.8	7.0	9.5	3050 *	28900 *	9.5	9.5 *	
95-DAY HYBRID TRIAL AVERAGE##		59.9																		
Carhart's Blue Top	CX3100A	8.0	60.0	40	6.6	23	47	73	42	33	2770 *	22000	8.8 *	7.1						
Carhart's Blue Top	CX102RR	8.2	60.4	40	6.5	23	47	72	40	31	2700	22200	7.8	8.6 *						
Renk	RK606	7.2	60.7	40	6.7	24	48	71	41	29	2650	19200	7.5	7.0						
Trelay	5700	6.9	60.9	40	6.6	25	48	71	40	32	2640	18200	7.2	6.6						
LG Seeds	LG2479Bt	7.4	61.1	40	6.6	25	49	71	42	30	2650	19800	7.0	7.8						
Pioneer	37M34	9.0 *	61.3	20	6.7	24	49	72	44	29	2730	24600 *	9.5 *	8.4 *						
Dahlco	X100L	8.5 *	61.6	40	6.7	24	47	73	41	31	2760 *	23200 *	9.0 *	8.0 *						
Ramy Seed	PG1475	7.5	61.9	40	6.6	24	49	71	42	30	2700	20300	7.9	7.1						
Carhart's Blue Top	CX1195A	8.0	62.0	40	6.9	24	47	72	40	31	2700	21600	8.2	7.8						
Carhart's Blue Top	CX1200A	7.5	62.1	20	6.8	22	45	74	42	33	2810 *	21200	7.7	7.3	8.7	2870	24800	9.5	7.9	
Dekalb	DKC49-92	7.8	62.7	40	6.5	24	48	73	45	31	2880 *	22400	7.3	8.3 *						
MEAN		8.1	58.4	30	6.7	24	48	72	42	32	2710	21800	8.4	7.7	8.9	2950	26400	9.7	8.2	
LSD(0.10)**		1.1	5.8	10	0.3	2	4	2	2	4	150	3100	1.7	1.1	0.8	140	3100	1.3	1.5	

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 which did not perform significantly less than the highest hybrid in the test.

Shaded results provide the best estimate of relative hybrid performance.

Relationship between Milk per Acre and Milk per Ton of corn hybrids in the South Central Zone during 2000.

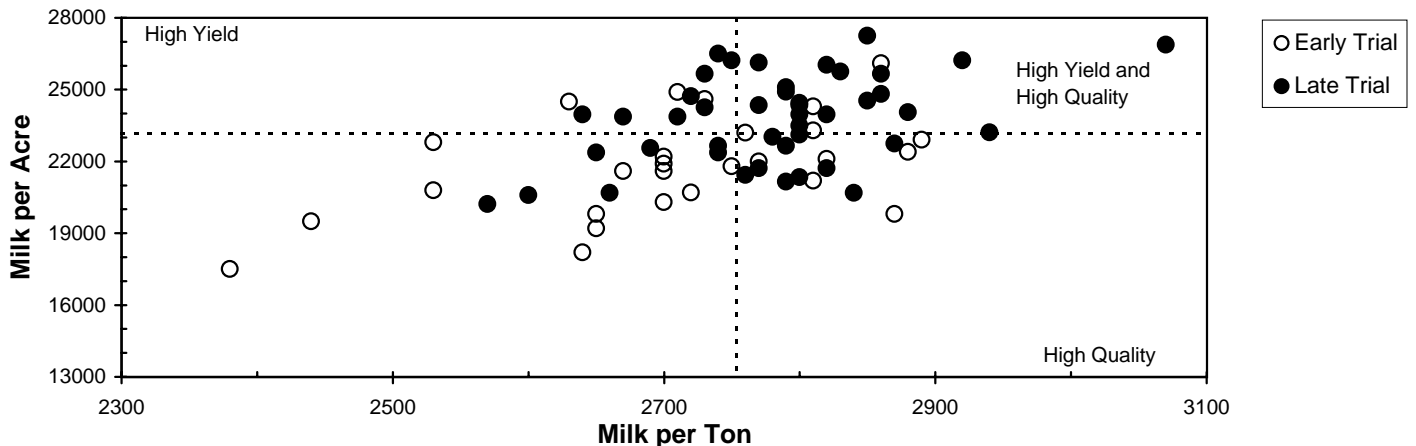


Table 14. South Central Zone - Late Maturity Silage Trial

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

BRAND	HYBRID	2000											1999						
		AVERAGE											AVERAGE						
		Kernel											FON	GAL	Yield			FON	GAL
		Yield	Moist	Milk	CP	ADF	NDF	IVD	CWD	Starch	MILK PER		Yield	Yield	Yield	Yield	Yield		
T/A	%	%	%	%	%	%	%	%	TON	ACRE	T/A	T/A	T/A	TON	ACRE	T/A	T/A		
Dairyland	Stealth 1203	7.7	54.6	30	6.4	24	48	72	42	33	2600	20100	8.1	7.4	8.6	2970	25400	9.8	7.3
Renk	RK685	7.6	56.9	50	7.0	24	49	71	41	30	2570	19700	8.1	7.2					
Asgrow	RX508YG	7.4	58.5	50	6.7	23	45	74	42	33	2790	20700	7.3	7.5					
Golden Harvest	H7895	8.3	59.6	40	7.2	25	50	71	42	28	2650	22000	8.7	7.8					
LG Seeds	LG2499	8.2	60.0	50	7.3	25	49	72	42	31	2690	22200	8.2	8.3 *					
Renk	RK691	9.0 *	60.6	50	7.0	25	50	71	42	28	2640	23700	9.5 *	8.4 *	9.3 *	2930	27300	10.1 *	8.6 *
Renk	RK775	8.7 *	60.6	50	6.5	24	48	72	42	31	2710	23600	9.6 *	7.9					
Renk	RK768	8.9 *	60.7	60	6.6	24	49	72	43	31	2730	24000 *	9.7 *	8.1					
100-DAY HYBRID TRIAL AVERAGE##		61.3																	
Pioneer	36D14	8.9 *	61.4	40	6.8	23	47	73	42	32	2790	24900 *	8.5	9.3 *	8.6	3170 *	27200	9.6	7.5
Dahlco	2660	9.4 *	62.2	50	7.0	24	47	72	41	30	2750	26100 *	9.2 *	9.6 *					
Pioneer	36R11	9.0 *	62.3	30	6.7	25	49	72	42	28	2720	24500 *	9.1 *	8.9 *					
Pioneer	34G82	9.3 *	62.4	40	6.8	25	48	72	42	29	2770	26000 *	9.2 *	9.5 *					
Pioneer	35R58	8.9 *	62.6	50	6.7	23	48	74	46	31	2920 *	26100 *	9.5 *	8.4 *					
NK Brand	N48-K2	7.8	62.7	50	6.5	24	48	73	44	30	2870	22400	8.1	7.5					
Renk	RK668	9.3 *	62.8	50	6.5	25	49	72	41	29	2730	25500 *	9.7 *	8.9 *					
Kaltenberg	K7122Bt	8.8 *	62.9	50	6.9	24	48	71	40	31	2670	23600	9.9 *	7.7					
Pioneer	36R10	8.4	63.1	50	7.0	24	47	73	42	30	2820	23700	7.7	9.0 *	9.0	3060	27600	10.7 *	7.4
Pioneer	35R57	9.0 *	63.1	50	6.4	24	49	73	44	29	2830	25600 *	9.2 *	8.9 *					
105-DAY HYBRID TRIAL AVERAGE##		63.2																	
Lemke	5060Bt	8.5 *	63.3	50	6.3	24	47	73	43	31	2860	24600 *	8.4	8.7 *	9.0	3000	27100	9.8	8.2
Garst	8640	7.5	63.4	30	6.6	24	48	72	42	30	2760	21000	6.2	8.9 *					
Carhart's Blue Top	CX1080A	8.5 *	63.4	50	6.7	23	47	72	42	32	2800	23700	8.9	8.0					
Garst	8557RR	7.6	63.5	40	6.8	24	49	71	40	29	2660	20200	7.4	7.8					
Carhart's Blue Top	CXP1500	7.5	63.6	60	6.4	24	48	72	42	30	2800	20900	8.4	6.6					
Pioneer	36B08	8.9 *	63.9	50	6.6	24	48	73	43	31	2860	25500 *	9.7 *	8.1	8.5	3070 *	26200	9.6	7.5
Carhart's Blue Top	CX105A	7.7	64.0	50	6.8	24	48	72	41	29	2770	21300	7.7	7.7					
Garst	8590IT	8.7 *	64.0	50	6.0	26	50	72	43	29	2770	24100 *	9.6 *	7.9					
High Cycle	HC350	8.9 *	64.2	50	7.0	23	47	72	41	30	2790	24700 *	9.4 *	8.4 *					
Dekalb	DKC53-32	7.9	64.4	50	6.4	26	51	71	43	30	2740	22000	8.4	7.4					
110-DAY HYBRID TRIAL AVERAGE##		64.6																	
Pioneer	35R60	9.2 *	64.6	50	6.8	25	50	72	45	27	2820	25900 *	9.2 *	9.1 *	10.4 *	3020	31500 *	10.0 *	10.8 *
Carhart's Blue Top	CX1056A	7.8	65.3	60	6.3	23	47	74	43	30	2940 *	22900	7.2	8.4 *					
NK Brand	N48-V8	9.6 *	65.3	60	6.5	25	50	72	45	25	2850	27200 *	10.5 *	8.6 *					
Lemke	SL68	8.2	65.4	60	6.7	24	48	72	42	29	2800	22800	8.3	8.0					
Geertson	GS1117	8.3	65.6	70	7.0	24	48	72	42	29	2800	23200	8.4	8.1	9.8 *	2990	29400 *	11.3 *	8.4
Renk	RK806	8.2	65.8	50	6.3	24	47	73	42	31	2880	23800 *	8.6	7.9					
Kaltenberg	K8108LF	9.6 *	66.3	60	6.3	26	50	71	42	26	2740	26400 *	10.0 *	9.2 *					
NK Brand	N58-D1	8.2	66.5	60	6.4	26	52	71	43	25	2740	22300	8.6	7.8					
Kaltenberg	K7001Bt	8.5 *	66.9	60	6.9	25	50	72	44	27	2850	24300 *	8.4	8.5 *					
Golden Harvest	H8562	8.6 *	66.9	60	6.9	25	49	72	42	28	2800	24100 *	8.9	8.2 *	9.2	3150 *	29000 *	10.1 *	8.3
Golden Harvest	H8250	8.1	67.0	60	6.6	25	49	71	42	27	2780	22700	7.6	8.5 *					
Trelay	7004	8.7 *	67.0	50	7.2	25	50	71	43	26	2800	24200 *	9.1 *	8.2 *					
Thurston	TE8785	8.7 *	67.7	50	7.3	23	46	75	45	30	3070 *	26800 *	8.8	8.5 *					
Geertson	GS1049	7.9	67.7	60	6.7	24	48	71	41	28	2820	21300	8.2	7.5					
Trelay	6900	7.9	67.7	60	6.7	25	49	72	42	29	2790	22300	8.0	7.9					
Brown	6990ND	7.1	71.0	60	7.4	26	51	71	44	26	2840	20200	6.9	7.3					
MEAN		8.4	63.7	50	6.7	24	49	72	43	29	2780	23500	8.6	8.2	8.9	3010	26900	9.8	8.1
LSD(0.10)**		1.1	2.8	10	0.5	2	3	2	2	4	150	3400	1.5	1.4	1.1	100	3400	1.3	2.3

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 which did not perform significantly less than the highest hybrid in the test.

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 (MARSHFIELD = MAR, VALDERS = VAL)

BRAND	HYBRID	2000											1999						
		AVERAGE											AVERAGE						
		Kernel											MAR	VAL	AVERAGE			MAR	VAL
Yield	Moist	Milk	CP	ADF	NDF	IVD	CWD	Starch	MILK PER		Yield	Yield	Yield	MILK PER		Yield	Yield		
T/A	%	%	%	%	%	%	%	%	TON	ACRE	T/A	T/A	T/A	TON	ACRE	T/A	T/A		
Trelay	2008	8.3 *	55.3	30	7.0	25	52	72	46	28	2670	22300 *	8.3 *	8.3 *	8.4 *	3130 *	26300 *	7.5 *	9.3 *
Carhart's Blue Top	CX8500A	7.4	58.7	50	7.3	24	49	73	46	29	2770 *	20700	7.9 *	7.0					
NK Brand	N27-M3	7.0	59.2	30	7.1	24	48	74	45	31	2810 *	19800	7.4	6.7					
Pioneer	39D81	5.2	59.6	10	7.1	26	53	71	45	26	2620	13600	5.7	4.6					
Renk	RK394	7.8 *	59.6	30	7.0	28	55	70	46	24	2580	20200	8.3 *	7.3					
Dairyland	Stealth 1280	7.7 *	59.9	30	7.1	25	52	72	45	28	2690	20800	8.3 *	7.1					
85-DAY HYBRID TRIAL AVERAGE##			60.3																
LG Seeds	LG2367	7.3	60.4	30	6.9	26	53	72	47	27	2700	19800	8.3 *	6.3	8.0 *	3100 *	25000 *	7.6 *	8.5
Carhart's Blue Top	CX290A	7.4	60.6	40	7.2	22	46	75	45	34	2900 *	21300	7.2	7.5 *	6.9	2900	20000	6.2	7.6
Dairyland	Stealth 1289	7.0	60.7	20	8.1	28	55	70	46	24	2570	18100	7.3	6.7	7.6	2990	22800	7.5 *	7.7
Brown	2080	6.8	61.3	40	7.0	23	48	74	45	31	2830 *	19200	6.5	7.1					
Carhart's Blue Top	CX1187A	6.9	61.4	30	7.2	25	51	73	46	29	2780 *	19200	6.8	7.0	7.1	3030 *	21400	6.8	7.3
90-DAY HYBRID TRIAL AVERAGE##			62.9																
Dekalb	DKC39-45	7.1	63.8	40	6.8	23	47	74	45	31	2920 *	20600	6.7	7.4 *					
NK Brand	N2555BT	7.1	64.2	40	7.4	26	51	72	45	27	2760 *	19800	7.7 *	6.6	7.7 *	3060 *	23400	8.0 *	7.3
Ramy Seed	PG1455	8.6 *	64.6	60	7.3	25	50	73	46	28	2850 *	24500 *	8.7 *	8.4 *					
Golden Harvest	H6675	8.2 *	66.4	40	7.7	25	50	72	44	26	2780 *	22900 *	8.4 *	8.1 *					
MEAN		7.3	61.1	40	7.2	25	51	72	46	28	2750	20200	7.6	7.1	7.5	3000	22700	7.1	8.0
LSD(0.10)**		0.9	3.9	10	0.5	3	4	3	1	4	200	3100	1.1	1.1	0.8	140	2400	1.0	0.5

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 which did not perform significantly less than the highest hybrid in the test.

Shaded results provide the best estimate of relative hybrid performance.

Relationship between Milk per Acre and Milk per Ton of corn hybrids in the North Central Zone during 2000.

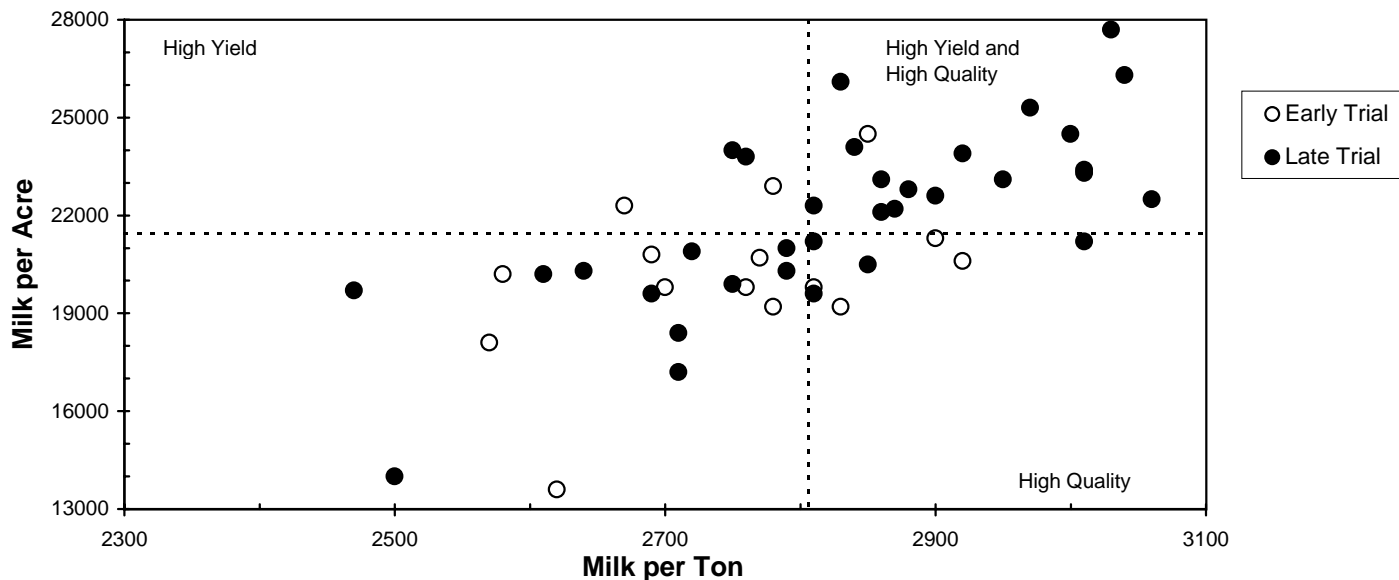


Table 16. North Central Zone - Late Maturity Silage Trial

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

		2000											1999							
		AVERAGE											AVERAGE							
		Kernel										MAR	VAL				MAR	VAL		
BRAND	HYBRID	Yield	Moist	Milk	CP	ADF	NDF	IVD	CWD	Starch	MILK PER		Yield	Yield	Yield	MILK PER		Yield	Yield	
		T/A	%	%	%	%	%	%	%	%	TON	ACRE	T/A	T/A	T/A	TON	ACRE	T/A	T/A	
Carhart's Blue Top	CX9510RR	8.0 *	57.3	40	7.0	28	56	69	45	25	2470	19700	8.6 *	7.5						
Geertson	GS929	7.6	62.0	60	7.2	28	54	71	46	24	2640	20300	8.9 *	6.3						
Pioneer	38K06	7.5	63.1	40	7.2	25	51	73	47	25	2810	21200	7.9 *	7.0						
90-DAY HYBRID TRIAL AVERAGE##			63.2																	
Asgrow	RX430	7.7	63.2	50	7.4	28	55	70	46	24	2610	20200	8.4 *	7.1						
Dekalb	DKC42-22	7.5	63.8	50	7.0	26	52	72	46	27	2790	21000	7.9 *	7.2						
Pioneer	38K07	7.8 *	63.9	40	7.1	23	47	75	47	31	2950 *	23100 *	7.3	8.3						
Pioneer	38P05	7.2	64.3	40	7.6	25	51	72	45	27	2750	19900	7.1	7.3						
Thurston	TE8783	7.9 *	64.6	50	8.2	25	52	73	47	26	2810	22300	8.4 *	7.4						
Carhart's Blue Top	CX1200A	7.7	64.6	50	7.4	25	51	72	44	27	2720	20900	7.9 *	7.5	7.7	2980	22900	7.2	8.2	
Golden Harvest	EX97415Bt	7.8 *	64.8	50	8.4	25	50	73	46	25	2860	22100	8.8 *	6.8						
Kaltenberg	K4809	7.3	64.9	50	7.5	24	51	72	46	27	2790	20300	7.7	6.9						
Dairyland	Stealth 1203	8.7 *	65.3	60	7.6	24	49	75	48	27	3040 *	26300 *	9.5 *	7.9	8.3 *	3090	25800 *	8.6 *	8.0	
Golden Harvest	H2387	9.2 *	65.3	60	7.8	25	51	73	46	26	2830	26100 *	9.2 *	9.2 *	7.9	2960	23400	7.4	8.3 *	
NK Brand	N3030BT	6.4	65.5	40	7.1	26	52	72	47	28	2710	17200	6.2	6.6	7.2	3070	22000	7.2	7.1	
Pioneer	38T27	7.2	65.6	40	7.6	25	50	73	46	26	2850	20500	6.7	7.7						
Carhart's Blue Top	CX102RR	8.6 *	65.6	50	7.1	26	52	72	46	26	2750	24000 *	8.4 *	8.7 *						
Carhart's Blue Top	CX1195A	8.6 *	65.7	50	7.9	25	50	72	44	27	2760	23800 *	8.8 *	8.4						
95-DAY HYBRID TRIAL AVERAGE##			65.8																	
Renk	RK685	7.3	65.9	60	8.1	26	52	71	44	26	2690	19600	7.1	7.5						
Dairyland	DST10212	8.2 *	66.1	80	7.9	25	51	75	51	21	3000 *	24500 *	8.4 *	7.9	8.4 *	3300 *	27700 *	8.4 *	8.4 *	
Dairyland	Stealth 1297	7.7	66.2	40	8.0	23	48	75	47	28	3010 *	23400 *	7.9 *	7.6						
Kaltenberg	K8098LF	7.0	66.3	60	7.7	23	48	75	47	31	3010 *	21200	7.8	6.3	7.9	3190	25400 *	7.1	8.8 *	
Carhart's Blue Top	CX3100A	7.7	66.4	60	7.2	25	49	75	49	25	3010 *	23300 *	9.3 *	6.1						
NK Brand	NX3018	7.3	66.4	60	8.1	23	49	75	50	28	3060 *	22500	8.1 *	6.4						
100-DAY HYBRID TRIAL AVERAGE##			66.5																	
Kaltenberg	K4907	8.1 *	66.6	60	7.7	25	50	73	46	25	2860	23100 *	7.6	8.5 *						
105-DAY HYBRID TRIAL AVERAGE##			66.7																	
Pioneer	37R71	8.5 *	66.9	40	7.1	24	50	74	48	26	2970 *	25300 *	8.0 *	9.0 *	8.2 *	3120	25500 *	8.2 *	8.2	
Pioneer	37M34	8.5 *	66.9	50	7.6	26	52	72	47	24	2840	24100 *	9.5 *	7.4						
Trelay	5600	7.9 *	66.9	60	7.6	25	50	73	46	26	2880 *	22800	8.5 *	7.3	8.6 *	3090	26700 *	8.4 *	8.9 *	
Dekalb	DKC44-42	8.1 *	67.1	60	7.1	25	50	74	48	28	2920 *	23900 *	7.4	8.9 *						
Brown	4M60ND	7.8 *	67.2	40	8.0	24	51	73	48	27	2900 *	22600	7.1	8.4						
Carhart's Blue Top	CX130AA	7.7	67.8	70	7.8	25	51	73	46	24	2870 *	22200	7.8	7.7	8.5 *	3110	26400 *	8.4 *	8.6 *	
Renk	RK606	7.0	68.1	60	7.8	26	52	72	46	23	2810	19600	6.5	7.4	8.8 *	3130	27600 *	8.3 *	9.3 *	
Carhart's Blue Top	CX125A	5.6	68.8	50	7.7	30	59	68	46	17	2500	14000	5.3	5.9						
Asgrow	RX452YG	6.8	68.9	50	7.8	28	54	70	46	20	2710	18400	7.1	6.5						
Garst	8640	9.1 *	69.1	60	7.3	24	48	75	48	26	3030 *	27700 *	8.4 *	9.8 *	9.0 *	3050	28000 *	8.7 *	9.3 *	
MEAN		7.7	65.6	50	7.6	25	51	73	47	26	2830	22000	7.9	7.5	7.8	3090	24200	7.6	8.0	
LSD(0.10)**		1.4	4.2	10	0.5	3	5	3	1	5	190	4800	1.6	1.3	0.8	100	2600	1.2	1.1	

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 which did not perform significantly less than the highest hybrid in the test.

Shaded results provide the best estimate of relative hybrid performance.

Table 17. Northern Zone Grain Trial - Ashland

BRAND	HYBRID	2000				1999			
		Yield bu/A	Moist %	Lodged %	P.I.#	Yield bu/A	Moist %	Lodged %	P.I.#
Pioneer	39W54	90	34.5	2	102 *				
Dekalb	DKC26-75	94	40.9	3	99				
LG Seeds	LG2227	106	42.7	1	104 *	114	32.1	0	89
Kaltenberg	K2468	94	43.7	1	98				
Pioneer	39A26	122 *	45.7	0	109 *				
Mycogen	2141	125 *	47.2	0	110 *				
Jung	2178	115 *	48.2	1	104 *				
Wolf River Valley	9883L	91	49.5	5	92	163	38.3	1	101
Dekalb	DKC29-95	85	49.8	0	89				
Carhart's Blue Top	CX1185A	117 *	49.8	0	104 *				
NK Brand	N17-R3	118 *	50.6	0	104 *	187 *	36.9	1	110 *
80-DAY HYBRID TRIAL AVERAGE##			50.8						
Wensman	W5018Bt	112 *	51.5	0	101	162	37.8	0	101
85-DAY HYBRID TRIAL AVERAGE##			53.9						
Top Farm	TFsx2182	103	54.6	0	95	175 *	36.8	0	106 *
Brown	1967	110	56.1	0	97				
Dairyland	Stealth 1280	105	57.2	0	94	198 *	39.1	0	112 *
Renk	RK232	116 *	58.3	0	98				
MEAN		106	48.8	1	100	157	37.2	1	100
LSD(0.10)**		13	2.9	2	8	24	2.3	3	9

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 which did not perform significantly less than the highest hybrid in the test.

Shaded results provide the best estimate of relative hybrid performance.

Table 18. Northern Zone Silage Trial - Ashland

BRAND	HYBRID	2000										1999			
		Yield T/A	Moist %	Kernel							MILK PER		Yield T/A	MILK PER	
				Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	TON	ACRE		TON	ACRE
Pioneer	39W54	4.9	57.7	40	7.4	27	54	72	49	25	2700	13200			
75-DAY HYBRID TRIAL AVERAGE##			62.4												
LG Seeds	LG2227	5.2	64.1	60	7.5	27	54	72	49	21	2780	14600	6.8	2840	19300
Dekalb	DKC26-75	4.7	65.4	50	8.1	25	51	74	48	25	2900	13700			
Kaltenberg	K2468	4.3	66.6	50	8.9	22	47	76	50	27	3130 *	13600			
Wolf River Valley	9883L	5.6	67.0	80	8.1	27	55	71	48	20	2750	15500	9.1 *	2730	24900 *
Pioneer	39A26	5.5	67.4	50	8.0	26	51	73	47	24	2880	15800			
Dekalb	DKC29-95	4.8	68.4	70	8.1	23	49	76	51	27	3150 *	15100			
Carhart's Blue Top	CX1185A	5.5	69.1	90	7.7	25	53	73	49	23	2930	16200			
NK Brand	N17-R3	6.1 *	69.1	70	8.3	26	52	73	47	22	2860	17400 *	8.5	2920	25000 *
85-DAY HYBRID TRIAL AVERAGE##			70.4												
Jung	2178	5.3	71.3	60	7.8	25	50	76	51	24	3160 *	16800			
80-DAY HYBRID TRIAL AVERAGE##			71.4												
Dairyland	Stealth 1280	6.4 *	72.1	90	7.8	28	56	71	48	17	2750	17500 *	9.6 *	2810	27100 *
Top Farm	TFsx2182	6.2 *	72.1	100	7.9	27	54	72	49	18	2860	17900 *	8.6 *	2880	24800 *
Brown	1967	6.2 *	72.9	100	8.0	29	57	70	47	17	2680	16700			
Renk	RK232	6.1 *	73.5	100	8.3	28	55	71	48	16	2800	17200 *			
Wensman	W5018Bt	5.0	73.6	80	8.0	29	56	71	48	19	2770	13900	8.5	2980 *	25300 *
Mycogen	2141	6.3 *	73.9	80	8.3	26	50	74	49	23	3030 *	19200 *			
MEAN		5.5	69.0	70	8.0	26	53	73	49	22	2880	15900	8.0	2890	23100
LSD(0.10)**		0.7	3.7	10	0.6	2	3	2	2	4	180	2300	1.0	120	3600

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 which did not perform significantly less than the highest hybrid in the test.

Shaded results provide the best estimate of relative hybrid performance.

Hybrid Index

		Relative Maturity							Relative Maturity				
Brand	Entry	Co.	MN	CRM	Traits	Tables	Brand	Entry	Co.	MN	CRM	Traits	Tables
AgriGold	A6269Bt	101		104	Bt	4,7	Carhart's Blue Top	CX3100A	100		99		4,6,9,13,16
AgriGold	A6365	103		105		4,7	Carhart's Blue Top	CX8500A	85		87		6,8,10,15
AgriGold	A6382	105		105		4	Carhart's Blue Top	CX9510RR	95		98	RR	6,9,13,16
AgriGold	A6390	106		109		5	Carhart's Blue Top	CXP1500	105		104		4,7,14
AgriGold	A6427	107		110		5	Cornelius	C369YG	104		103	Bt	4
AgriGold	A6428	108		108		5	Cornelius	C391	104		103		4
AgriGold	A6469Bt	110		110	Bt	5	Cornelius	C408YG	105		104	Bt	4,11
AgriGold	XA5000	105		105		4	Cornelius	C507	107		107		5
AgriGold	XA5917	99		99		6	Cornelius	C518	105		104		4,11
AgriGold	XA6923	98		99		6	Cornelius	C578YG	110		109	Bt	5
AgriPro	AP8830	95		97		9	Cornelius	C597YG	110			Bt	12
AgriPro	AP9170	92	92	99		9	Cornelius	C600RR	110		109	RR	5
AgriPro	AP9280	99		98		6,13	Crows	217Bt	100	100	98	Bt	6
AgriPro	AP9313	99		98		6	Crows	351	106		104		7
AgriPro	AP9466	107	107	108		5	Crows	4908	111		110		5
AgriPro	AP9559Bt	110	110	110	Bt	5	Crows	4911Bt	111		110	Bt	5
AgriPro	HY9646	115				12							
AgriPro	AP9511IMI	109	109	109	IMI	5							
Asgrow	RX393YG	95	95	96	Bt	6,9	Dahlco	2140	80	80	88		8
Asgrow	RX430	94				13,16	Dahlco	2287	85	85	88		8
Asgrow	RX452YG	99	99	100	Bt	4,6,9,13,16	Dahlco	2336	90	90	89		8
Asgrow	RX508YG	103	103	104	Bt	4,7,14	Dahlco	2394	93	94	94		9
Asgrow	RX637	107	107	107		5,12	Dahlco	2472	97	97	97		6,9
Brown	1967	83	80	84		8,10,17,18	Dahlco	2475	95	95	97		6,9
Brown	2080	89	85	87		8,10,15	Dahlco	2475Bt	95		99	Bt	6
Brown	3277	91		94		9	Dahlco	2475RR	95		98	RR	6
Brown	4641	95	96	99		6,9	Dahlco	2660	105	105	105		7,14
Brown	4M60ND	98				16	Dahlco	X0001	100		99		6
Brown	5225	103		104		7	Dahlco	X100L	100				13
Brown	6341	107		108		5	Dahlco	X8002	100	100	99		6
Brown	6574	104		102		7	Dahlco	X8054	105	105	104		7
Brown	6850	107	105	108		5	Dahlco	X8891	89	89	87		8
Brown	6990ND	110				14	Dahlco	X94L	94				13
Brown	7041	112		110		5,12	Dahlco	X9841	84		86		8
Brunner	EXP102	100		99		6	Dahlco	X9861	84	86	85		8
Brunner	EXP104	102		105		7	Dahlco	X9961	96	96	97		6
Brunner	EXP84	84		86		10	Dahlco	X9963	96		96		6
Brunner	Exp85Bt	85		87	Bt	10	Dahlman	1488	90	90	87		8
Brunner	S2495	87		85		10	Dahlman	1699	100	100	96		9
Brunner	S3721Bt	90		87	Bt	10	Dahlman	D4501	90		87		8
Brunner	S4244Bt	96	96	96	Bt	9	Dahlman	D5101	102		100		9
Brunner	S4709	100	100	98		9	Dahlman	R1730Bt	100		98	Bt,RR	9
Brunner	S4868RR	100		99	RR	6	Dairyland	DST10212	100				13,16
Brunner	S5100	103	105	105		4	Dairyland	Stealth 1089Bt	90	89	88	Bt	8
Brunner	S5474	105	105	104		4	Dairyland	Stealth 1099RR	99	99	98	RR	9
Cargill	4021Bt	102	102	102	Bt	7	Dairyland	Stealth 1203	100	105			13,14,16
Cargill	4111	102	100	101		7	Dairyland	Stealth 1277	75		82		10
Cargill	4150LL	101		101	LL	4,7,9	Dairyland	Stealth 1280	85	85	83		10,15,17,18
Cargill	4521Bt	105	105	102	Bt	7	Dairyland	Stealth 1289	90	90	87		8,15
Cargill	5320Bt	106	106	107	Bt	5	Dairyland	Stealth 1297	98	95			13,16
Carhart's Blue Top	CX102RR	100	107	99	RR	4,6,9,13,16	Dairyland	Stealth 1298Bt	98	98	98	Bt	9,13
Carhart's Blue Top	CX1056A	105	108	105		4,7,11,14	Dairyland	Stealth 1299Bt	100	99	99	Bt	6
Carhart's Blue Top	CX105A	105	105	104		4,7,14	Dairyland	Stealth 1402	100	102	99		9
Carhart's Blue Top	CX1080A	110		107		5,7,12,14	Dairyland	Stealth 1404	104	104	105		7
Carhart's Blue Top	CX1185A	85		88		6,8,10,17,18	Dairyland	Stealth 1406	105	107	105		4,7,11
Carhart's Blue Top	CX1187A	87		87		8,10,15	Dairyland	Stealth 1410	110		109		5,12
Carhart's Blue Top	CX1195A	95	95	96		6,9,13,16	Dairyland	Stealth 1412	112		110		5,12
Carhart's Blue Top	CX1200A	100	99	98		4,6,9,13,16	Dairyland	Stealth 1485	86	85	85		10
Carhart's Blue Top	CX125A	95		94		6,9,13,16	Dairyland	Stealth 1490	90		88		8
Carhart's Blue Top	CX130AA	100	100	99		4,6,9,13,16	Dairyland	Stealth 1492	92		95		9,11
Carhart's Blue Top	CX290A	90		90		6,8,15	Dairyland	Stealth 1496	96	98	97		6,9
							Dairyland	Stealth 1496Bt	98		99	Bt	6
							Dairyland	Stealth 1498	98		98		4,6,9
							Dairyland	Stealth 1499	96	99			13

		Relative Maturity							Relative Maturity				
Brand	Entry	Co.	MN	CRM	Traits	Tables	Brand	Entry	Co.	MN	CRM	Traits	Tables
Dairyland	Stealth 1502	102		102		4,7	Golden Harvest	H7773Bt	101	102	104	Bt	7
Dairyland	Stealth 1504Bt	104	104	103	Bt	7	Golden Harvest	H7798Bt	101	102	103	Bt	7
Dairyland	Stealth 1507	109	106	107		5,7,12	Golden Harvest	H7895	104		103		4,7,14
Dairyland	Stealth 1508	109	110	107		5,12	Golden Harvest	H8067Bt	106	104	107	Bt	5
Dairyland	Stealth 1585	85		84		8,10	Golden Harvest	H8250	106	106	106		5,7,12,14
Dairyland	Stealth 1596	97	96	94		6,9	Golden Harvest	H8562	108	108	108		5,12,14
Dairyland	Stealth 1606	105		105		4,7	Golden Harvest	H8877	110		109		5
Dairyland	Stealth 1609	109		110		5	Golden Harvest	H9229	111				12
Dairyland	Stealth 1611	111		110		5	Golden Harvest	H9230Bt	110	113	110	Bt	5,12
Dekalb	DK355	85	85	85		8	Growmark	FS2131	87		87		10
Dekalb	DK405	90	90	86		8	Growmark	FS3091	90		87		8,10
Dekalb	DK440	94	95	93		9	Growmark	FS3621	99	100	98		9,13
Dekalb	DK493	99	100	100		6	Growmark	FS3969	97	100	98		6,9
Dekalb	DK507	100	100	98		4,6,9	Growmark	FS4121	101	100	104		4,7
Dekalb	DK567	106	106	107		5,7,12	Growmark	FS4481	103	105	105		4,7,11
Dekalb	DK611	111	111			12	Growmark	FS5221	106		108		5
Dekalb	DKC26-75	76	76	79		10,17,18	Growmark	FS5308	106		108		5
Dekalb	DKC29-95	79	79	81		10,17,18	Growmark	FS6141	110		108		5
Dekalb	DKC36-71	85	86	85		8,10	Gutwein	2400	104	103	104		4
Dekalb	DKC39-45	89	89	88		8,15	Gutwein	2515	108		109		5
Dekalb	DKC42-22	92	92	95		9,16	High Cycle	7419Bt	97		97	Bt	6
Dekalb	DKC44-42	94	94	98		6,9,16	High Cycle	7638Bt	106		108	Bt	5
Dekalb	DKC46-26	96	96	97		9	High Cycle	HC350	106	105	108		5,14
Dekalb	DKC47-72	97	97	96	Bt	6,9	High Cycle	HC540	112	111	110		5,12
Dekalb	DKC48-83	98	98	96		6,9	Hughes	2760	96		96		4,6
Dekalb	DKC49-92	99	99	98	Bt	6,9,13	Hughes	2927	98		99		4,6
Dekalb	DKC53-32	103	103	104	Bt	4,7,14	Hughes	3389	103		104		4
Dekalb	DKC58-52	108	108	110	Bt	5,12	Hughes	3799	104		105		4
Foundation	8763	100		99		6	Hughes	3830	104		103		4
Foundation	8766	99	105	97		6	Hughes	4118	105		105		4
Foundation	8804	96		94		9	Hughes	5150	107		109		5
Garst	8464	111		110		5,12	Hughes	5597	108		108		5,12
Garst	8557RR	109			RR	14	Hughes	5906	109		109		5,12
Garst	8585GLS/IT	108		109	IMI	5	Jeske	J16	85		86		10
Garst	8590IT	106	106	106	IMI	5,7,14	Jeske	SX224	95		96		9
Garst	8640	104	105	105		7,14,16	Jung	2178	78		83		10,17,18
Garst	8707	103	103	103		4,7	Jung	2233	85	85	87		8
Garst	8790Bt	100	100	99	Bt	6	Jung	2240	80		83		10
Garst	8830	95	95	97		6,9	Jung	2285	85	85	87		10
Garst	8894Bt	93		95	Bt	9	Jung	2370	89	90	86		8
Garst	8956	87		81		10	Jung	2430	91	94	94		9
Garst	8975	87	87	83		10	Jung	2436	94	95	93		9
Geertson	GS1049	104	104			11,14	Jung	2455	95	99	97		9
Geertson	GS1067	106	106	105		7	Jung	2488A	99	99	99		6,9
Geertson	GS1099	109	109			12	Jung	2510B	100		98		6
Geertson	GS1117	111	111			14	Jung	2565	103		103		4,7
Geertson	GS889	88	88	87		10	Jung	2612	105	105	104		4
Geertson	GS929	92	92	96		9,16	Jung	2671	106		105		5
Geertson	GS998	99	99			13	Jung	2706	110	114	109		5
Golden Harvest	EX06085	78		84		8,10	Jung	2710	112	115	110		5
Golden Harvest	EX96401Bt	87	89	88	Bt	8	Kaltenberg	K2345	77		82		10
Golden Harvest	EX96412	89		87		8	Kaltenberg	K2468	79		84		10,17,18
Golden Harvest	EX96600	92		96		9	Kaltenberg	K2909	88	88	86		10
Golden Harvest	EX96675Bt	91	93	97	Bt	9	Kaltenberg	K3303	84	84	85		8,10
Golden Harvest	EX97153	97		98		6	Kaltenberg	K3333Bt	89		87	Bt	8
Golden Harvest	EX97415Bt	98	98	100	Bt	6,16	Kaltenberg	K3456	89		85		8,10
Golden Harvest	H2309	94	95	97		9	Kaltenberg	K4606	92		94		6,9
Golden Harvest	H2315	95	100	97		6,9	Kaltenberg	K4707	96		97		6,9
Golden Harvest	H2387	95	102			16	Kaltenberg	K4809	100	100			16
Golden Harvest	H2398	104	102	104		4,7	Kaltenberg	K4822RR	98		98	RR	9
Golden Harvest	H6229	84	84	88		8	Kaltenberg	K4848Bt	100		98	Bt	6,9
Golden Harvest	H6675	90	91	89		8,15							
Golden Harvest	H7599	99	100	98		6							

		Relative Maturity							Relative Maturity				
Brand	Entry	Co.	MN	CRM	Traits	Tables	Brand	Entry	Co.	MN	CRM	Traits	Tables
Kaltenberg	K4907	100	100	99		6,16	Mycogen	2141	81	81	80	Bt	10,17,18
Kaltenberg	K5123	102		101		7,9	Mycogen	2242	86	86	85		10
Kaltenberg	K5151Bt	102		100	Bt	7,9	Mycogen	2249IMI	89	89	86	Bt,IMI	8,10
Kaltenberg	K5454Bt	103	103	105	Bt	4	Mycogen	2424	95	95	97	Bt	9
Kaltenberg	K5808	105		104		4	Mycogen	2525	100	100	98	Bt	6,9
Kaltenberg	K5959Bt	107			Bt	12	Mycogen	2544IMI	101	101	104	Bt,IMI	7
Kaltenberg	K6179	105		103		4,7	Mycogen	2566	102	102	103	Bt	7
Kaltenberg	K6543	108		107		5	Mycogen	2593	103	103	103		7
Kaltenberg	K6789	109		108		5	Mycogen	2652	106	106	107		5,7
Kaltenberg	K7001	110		107		5	Mycogen	2657	106	106	106	Bt	5,7
Kaltenberg	K7001Bt	110		110	Bt	5,12,14	Mycogen	2717IMI	110	110	108	Bt,IMI	5
Kaltenberg	K7101	112		110		5							
Kaltenberg	K7107	113		109		5	NK Brand	N09-A4	72		77		10
Kaltenberg	K7122Bt	112		109	Bt	5,12,14	NK Brand	N17-R3	85	85	82	Bt,LL	10,17,18
Kaltenberg	K8098LF	98			leafy	16	NK Brand	N2555BT	88	90	89	Bt,LL	8,10,15
Kaltenberg	K8104LF	104			leafy	11	NK Brand	N27-M3	90	90	87	Bt,LL	8,15
Kaltenberg	K8108LF	108			leafy	14	NK Brand	N3030BT	95	95	91	Bt,LL	9,16
Kaltenberg	K8110LF	110			leafy	12	NK Brand	N43-C4	100	102	98	Bt,LL	4,6,13
							NK Brand	N45-T5	103	103	101		4,7
Kussmaul	K108	108	108	107		5	NK Brand	N48-K2	103	104			14
Kussmaul	K202	100	105	103		4	NK Brand	N48-V8	105	105		Bt,LL	11,14
Kussmaul	K206	105	105	104		4	NK Brand	N58-D1	108	106	108	Bt,LL	5,7,12,14
Kussmaul	K295	94	95	98		4	NK Brand	N59-Q9	110	110	108		5,12
Kussmaul	KHC	107	107	108		5	NK Brand	N65-A1	110		109	Bt,LL	5
							NK Brand	N67-T4	111			Bt,LL	12
LG Seeds	LG2227	74	74	78		10,17,18	NK Brand	NX3018	98				16
LG Seeds	LG2307	90	91	89		8	NK Brand	NX4178	100		97	Bt,LL	6,9
LG Seeds	LG2333	80	80	84		10							
LG Seeds	LG2367	85	85	88		8,15	O'Brien	OB0709	110		109		5
LG Seeds	LG2442	95	95	96		9	O'Brien	OB9605	105		105		7
LG Seeds	LG2473	96	96	98		6	O'Brien	OX105	105		105		4
LG Seeds	LG2479Bt	98		97	Bt	6,13							
LG Seeds	LG2484	99	99	99		6	Ottilie	4555CL	105		104	IMI	4
LG Seeds	LG2488	100		99		6	Ottilie	4777Bt	107		110	Bt	5
LG Seeds	LG2499	101	100	104		7,14	Ottilie	4999	109		111		5
LG Seeds	LG2500Bt	102	102	104	Bt	7	Ottilie	5000	110		110		5
LG Seeds	LG2512	103	103	105		4	Ottilie	5267Bt	112		110	Bt	5
LG Seeds	LG2521	105		105		4							
LG Seeds	LG2526SP	105	105		leafy	11	Pfister	2024	104	104	105		4,11
LG Seeds	LG2530	105	105	105		4	Pfister	2025	105	110	104		4,11
LG Seeds	LG2533	105		105		4							
							Pioneer	34B23	108		108		5,12
Lemke	3010	90		86		8	Pioneer	34G13	108	108	108		5,12
Lemke	3090	90		88		8	Pioneer	34G82	107	106	106	Bt	5,7,12,14
Lemke	4020	95		94		6,9	Pioneer	35N05	105	105		Bt	11
Lemke	4040	100	109	99		6	Pioneer	35R57	104	104	103		4,7,14
Lemke	4060	100	111	99		6	Pioneer	35R58	105	105	104	Bt	4,7,11,14
Lemke	4066RR	100	113	99	RR	6	Pioneer	35R60	105	105	104	Bt,IMI	4,7,11,14
Lemke	5060Bt	105	103		Bt	14	Pioneer	36B08	102	102	104		7,14
Lemke	6060	107		104		7	Pioneer	36D14	103	103	104	IMI	4,7,11,14
Lemke	EX5020	100		100		6	Pioneer	36R10	101	101	103		7,14
Lemke	EX6070	107		103		7	Pioneer	36R11	101	101	104	Bt	7,14
Lemke	SL68	111		110		5,14	Pioneer	3751	100	100	98		9
							Pioneer	37M34	99	99	98		6,9,13,16
M/W Genetics	G6956	95	95	94		9	Pioneer	37R71	99	99		Bt	16
M/W Genetics	G7010	100	100	96		9	Pioneer	3893	89	90	85		10
M/W Genetics	G7101Bt	100	100	99	Bt	4,6	Pioneer	38K06	92	92	95		9,16
M/W Genetics	G7491	107	107	103		7	Pioneer	38K07	92	92	96	Bt	9,16
M/W Genetics	G7706	110		110		5	Pioneer	38P05	95	94	95		9,16
M/W Genetics	G7711	110		110		5,12	Pioneer	38T27	96	96	96		6,9,13,16
							Pioneer	3936	79	80	81		10
Mallard	UC2420	96	96	93		9	Pioneer	39A26	80	80	83		8,10,17,18
Mallard	UC2652	100	100	99		6	Pioneer	39D81	85	85	83		8,10,15
Mallard	UC2682	106	106	107		5,7	Pioneer	39W54	73	73	75		10,17,18
Mallard	UCX2440	96		98		9							
Mallard	UCX2665	103		103		7							

		Relative Maturity							Relative Maturity				
Brand	Entry	Co.	MN	CRM	Traits	Tables	Brand	Entry	Co.	MN	CRM	Traits	Tables
Ramy Seed	PG1356	86		87		8	Trelay	6900	103				11,14
Ramy Seed	PG1455	90	95			15	Trelay	7001	105		105		4
Ramy Seed	PG1475	95	95			13	Trelay	7002	105	105			11
Ramy Seed	PG1540	105		105		7	Trelay	7004	105	105			11,14
							Trelay	7095	105		105		4
Renk	RK232	85	85	84		8,10,17,18	Trelay	9095	110				12
Renk	RK394	90		88		8,10,15							
Renk	RK569	97	97	98		6,9	US Seeds	USC1009	100	98	97		9
Renk	RK606	100	99	99		4,6,9,13,16	US Seeds	USC1009RR	100	101	98	RR	6,9
Renk	RK668	105		104		4,7,14	US Seeds	USC1029Bt	102	102	101	Bt	7,9
Renk	RK685	101	101	101		4,7,9,14,16	US Seeds	USC1030	103	103	104		4,7
Renk	RK691	105	103			14	US Seeds	USC1051ND	105	105	106		4,7,11
Renk	RK695	101	105	103		4,7	US Seeds	USC1059	105	105	103		4,7
Renk	RK768	107	107	105		5,7,14	US Seeds	USC1069Bt	106	108	107	Bt	5,7
Renk	RK775	108	109	107		5,12,14	US Seeds	USC1079RR	107	105	106	RR	5,7
Renk	RK806	110		109		5,14	US Seeds	USC1099	109	109	109		5
Renk	RK837	111		109		5,12	US Seeds	USC1099ND	109	109	109		5,7,12
Renk	RK896	113				12	US Seeds	USC1109Bt	110		107	Bt	5,7
							US Seeds	USC1119RR	111		109	RR	5
Spangler	1727	85		89		8	US Seeds	USC909	90	90	87		8,10
Spangler	2001	87		86		8	US Seeds	USC980	98	98	98		6,9
Spangler	2777	89		87		8							
Spangler	3401	95		95		6	Vigoro	V4400	103		101		4
Spangler	4110	100		99		6	Vigoro	X648004	105		104		4
Spangler	4300	102		103		7							
Spangler	4777	103		103		7	Wensman	MAX 007	90	93	90	Bt	8
Spangler	5300	105		102		4	Wensman	MAX 127	97	95	98	Bt	9
Spangler	5901Bt	108		108	Bt	5	Wensman	W5018Bt	80	80	84	Bt	10,17,18
Spangler	6300	108		107		5	Wensman	W5048Bt	84	85	85	Bt	10
Spangler	7558	112		109		5,12	Wensman	W5088Bt	87	85	86	Bt	8,10
							Wensman	W5258Bt	95	95	95	Bt	9
Thurston	TE7565	111				12	Wensman	W5319Bt	99	101	99	Bt	6,9
Thurston	TE8783	100				16	Wensman	W5329Bt	100	102	99	Bt	6
Thurston	TE8785	105				14							
							Whata Hybrid	4417	107	103	107		5
Top Farm	TFsx105Bt	104	105	104	Bt	7	Whata Hybrid	4517	105		105		4
Top Farm	TFsx2107	107	110	110		5							
Top Farm	TFsx2175	75	77	85		10	Wolf River Valley	9883L	83	83	85	leafy	10,17,18
Top Farm	TFsx2182	82	80	83		10,17,18							
Top Farm	TFsx2201	100	100	97		6,9	Wyffels	W2950	102		104		4
Top Farm	TFsx2203	103	105	102		7	Wyffels	W4828	105		104		4
Top Farm	TFsx2289	87	90	86		8	Wyffels	W4920	105		105		4,11
Top Farm	TFsx2295	95	97	94		9	Wyffels	W5460	107		109	Bt	5
Top Farm	TFsx2297	97	97	98		9	Wyffels	W552	108		109		5
Top Farm	TFsx2299	100	100	98		6,9	Wyffels	W5540	108		109		5
Top Farm	TFsx7101Bt	100	101	99	Bt	6,9	Wyffels	W5541	108		110	Bt	5
Top Farm	TFsx7187Bt	87	102	86	Bt	10	Wyffels	W575Bt	108		110	Bt	5
Top Farm	TFsx7191Bt	92	92	95	Bt	9	Wyffels	W6570	110		110		5
Top Farm	TFsx7196Bt	97	97	96	Bt	9	Wyffels	W6980	111		110		5
Top Farm	TFsx7202Bt	106	106	106	Bt	7	Wyffels	W700	111		110		5,12
Top Farm	TFsx8103RR	100	105	98	RR	9	Wyffels	W7090	111		110		5,12
Top Farm	TFsx8201RR	100	100	97	RR	9	Wyffels	W742	111				12
Trelay	1007	80	80	88		8							
Trelay	2008	87				15							
Trelay	2009	87		87		8							
Trelay	3700	90	90	88		8							
Trelay	4001	95	95	94		6							
Trelay	4002	95	95	96		9							
Trelay	5100	100		99		6							
Trelay	5600	98	98	99		6,16							
Trelay	5700	98	98			13							



Wisconsin Corn Growers Association

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Palmyra, WI 53156

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