



College of Food, Agricultural
and Natural Resource Sciences
UNIVERSITY OF MINNESOTA

UNIVERSITY OF MINNESOTA
EXTENSION

Southern Research and
Outreach Center

Dear Corn Testing Cooperator:

Enclosed on other worksheets you will find the entry forms for the 2009 Corn Performance Testing for both corn grain and the corn silage testing programs. This year we are trying to do both the entry forms and the final data through email. Please fill out the entry forms and email or mail them back to the appropriate person. If you want a hard copy of the entry forms and the final data please let us know. Once again, this year please include the specialty traits for each entry in the column provided (Bt, CRW, GLY, LL, BMR, HO=High Oil, Lf=leafy). Note that grain yield is not measured in the corn silage trial, so if you want grain yield on your silage varieties please enter them into the grain trial. The deadline for applications is March 20, 2009, and the testing committee reserves the right to reject applications received after April 10, 2009 and the right to enter varieties of their own choosing. Forms and questions about the corn grain trial should be addressed to Tom. Forms and questions about the corn silage trial should be addressed to Matt. We will send an email reply to you after we receive your emailed entry form. So if you do not get a reply from us in a couple of days, please call immediately. Also a copy of this entry form will be on our website at <http://sroc.cfans.umn.edu>. We appreciate and thank you for your participation in these programs.

Sincerely,
Matt Bickell
Tom Hoverstad

Matt Bickell
University of Minnesota
Southern Research and Outreach Center
35838 120th St
Waseca, MN 56093
507-837-5628
507-835-3622 (fax)
bicke005@umn.edu

Doug Swanson or Craig Sheaffer
University of Minnesota
Department of Agronomy and Plant Genetics
136 Crop Research Building
1902 Dudley Ave.
St. Paul, 55108
612-625-8189 or 612-625-7224

Tom Hoverstad
University of Minnesota
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35838 120th St
Waseca, MN 56093
507-837-5624
507-835-3622 (fax)
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Jeff Coulter
University of Minnesota
Department of Agronomy and Plant Genetics
1991 Upper Buford Circle
St. Paul, 55108
612-625-1796



Corn Grain Performance Testing, 2009
University of Minnesota
Agriculture Experiment Station

Corn Performance Testing Coordinator: T.R. Hoverstad

Corn Testing Committee: T.R. Hoverstad, S.R. Quiring, G.A. Nelson, J. Coulter, and M. Hanson

The corn testing committee will conduct performance tests of hybrid corn adapted to Minnesota.

Locations

The northern zone will include sites at Crookston, Rothsay, and Staples and will test 95 day RM hybrids and earlier. The central zone will include sites at Morris and Rosemount and will test 90 to 105 RM hybrids. The southern zone will include sites at Lamberton, Rochester, and Waseca and will test hybrids in the 95 to 115 RM range.

Fees for each location are \$100 resulting in total costs of \$200/ entry for hybrids in the central zone and \$300/ entry for hybrids tested in the northern and southern zones.

Experimental Procedure

Randomized block design with 3 replications will be planted at each site for each zone and results will be analyzed using valid statistical procedures. Hybrids will be seeded in 2-row plots at 33,000 seeds per acre population and 30-inch row spacing.

Harvesting

Plots will be harvested with a 2-row plot combine, recording both grain weight and moisture

Results Provided

Yields are given for individual locations along with yields and harvest moisture contents averaged across locations. Reported yields are adjusted to 15.5% grain moisture. Results will be presented in maturity groups and sorted by grain moisture average across locations.

Publication of Results

Results will be published and made available to the public via standard publication format and electronic medium (e.g. *Minnesota Varietal Trials Results*, www.maes.umn.edu, *Agri News -Rochester Post Bulletin* and the University of Minnesota SROC website, <http://sroc.cfans.umn.edu>). In addition, results for each region will be used in regional education programs and publications by extension educators. Results will be available in early December, 2009. Every effort will be made to report hybrid entry data from each location. If conditions beyond our control make this impossible, no financial liability is implied by the University of Minnesota Agricultural Experiment Station.

Corn Silage Testing, 2009
University of Minnesota
Agriculture Experiment Station and Extension

Corn Silage Testing Coordinators: M.D. Bickell, D.R. Swanson, C.C. Sheaffer

Corn Silage Committee: C.C. Sheaffer, D.R. Swanson, M.D. Bickell, F.B. Brietenbach, L.M. Behnken, D.L. Holen, D.C. Martens

The corn silage committee will conduct silage performance tests of hybrid corn adapted to Minnesota.

Locations

The southeast dairy region includes locations at Rochester (Olmsted County) and LaCrescent (Houston County).

The central dairy region includes locations at Paynesville (Stearns County) and Melrose (Stearns County).

West Central Location

This site will be in the west-central dairy zone in Otter Tail county. It will be a strip trial with 3 replications harvested for whole-plant herbage yield. The fee for this site is \$200 and requires a full bag of seed. Herbage samples will be analyzed to determine forage quality by the forage testing laboratory at the University of Minnesota in St. Paul. If interested in participating in this trial please contact Doug Holen at 218-998-5787 or email Doug at holen009@umn.edu for additional information.

Fees

The southeast and central dairy regions are \$300 for each hybrid entered. This fee covers planting at the two locations within each region.

Experimental Procedure

Randomized block design with 4 replications will be planted at each site for each region and results will be analyzed using valid statistical procedures. Hybrids will be seeded in 2-row plots at 33,000 seeds per acre population and 30-inch row spacing.

Harvesting

Whole-plant herbage will be sampled to determine yield and forage quality when average whole-plant moisture of enrolled hybrids at each location reaches 65% moisture content.

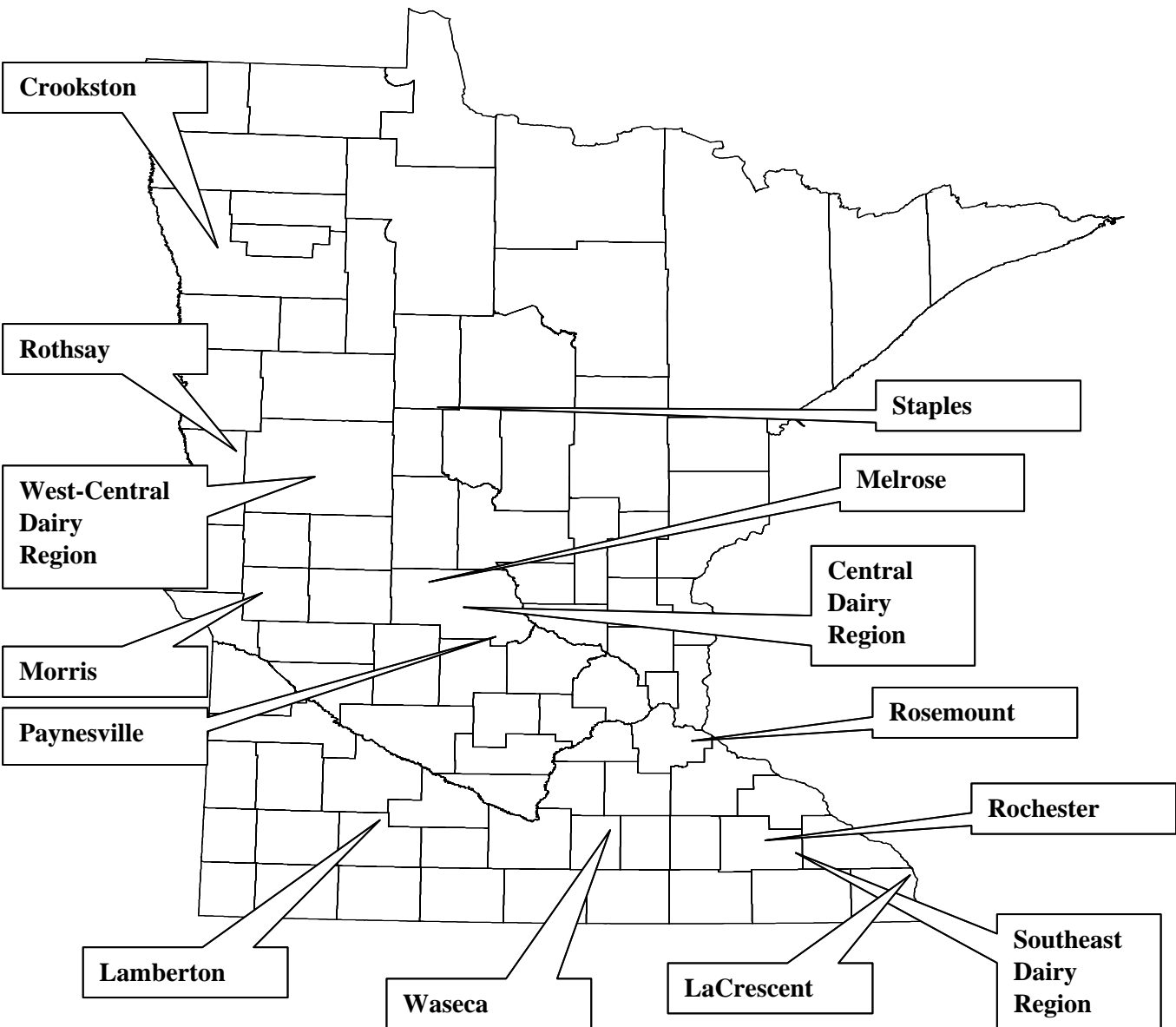
Results Provided

Quality measurements of whole-plant forage will include moisture content, crude protein; acid detergent fiber (ADF, a predictor of digestibility); neutral detergent fiber (NDF, a predictor of intake potential); in vitro digestibility (IVD, a biochemical procedure with 48 hour fermentation which estimates animal digestion); NDF digestibility (NDFD, estimates digestibility of the cell wall fraction) and starch concentration. Milk per ton and milk per acre will be calculated for each entry using the MILK2006 spreadsheet developed at the University of Wisconsin.

Yield measurements will include whole-plant dry matter and silage yields, and estimates of milk production.

Publication of Results

Results will be published and made available to the public via standard publication format and electronic medium (e.g. *Minnesota Varietal Trials Results*, www.maes.umn.edu, *Agri News* -Rochester Post Bulletin the University of Minnesota SROC website, <http://sroc.cfans.umn.edu> and the U of MN Forage Website, <http://www.extension.umn.edu/forages/>. In addition, results for each region will be used in regional education programs and publications by extension educators. Results will be available in mid November, 2009. Every effort will be made to report hybrid entry data from each location. If conditions beyond our control make this impossible, no financial liability is implied by the University of Minnesota Agricultural Experiment Station.



**APPLICATION FOR ENTRY - 2009 UNIVERSITY OF MINNESOTA
CORN GRAIN PERFORMANCE TESTING**

Please complete the hybrid information section and fill in the zone in which each hybrid will be tested

Please note: the Brand Name, Hybrid, and RM will be published exactly as they are written below

	Brand Name	Hybrid	RM	Traits	Southern	Central	Northern
xamp	ABC Brand	123RRBt	105	RR,Bt	X	X	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Please make check payable to:	Total number of entries per zone			
University of Minnesota Corn Grain Testing		x \$300	x \$200	x \$300
Application form is due by: March 20, 2009	Subtotal per zone	\$	\$	\$
Seed (2 lbs. of each entry for each zone entered) is due by: April 10, 2009	Grand Total of all \$	<hr/>		

Affidavit: I hereby certify that the sample of seed submitted in the University of Minnesota Corn Hybrid Performance Test is a representative sample from the variety being sold for commercial planting and is of similar quality and the same genetic background as that seed. Every effort will be made to plant, harvest, and report data for each entry accepted. However should unforeseen circumstances occur causing loss of crop and data, no financial liability, including return of testing fees, is either expressed or implied.

Send to:
T.R. Hoverstad
Corn Performance Testing
Southern Research and Outreach Center
35838 120th St
Waseca, MN 56093
hover003@umn.edu

Signature: _____

Company Name: _____ **Website:** _____

Contact Name: _____

Contact Address: _____

Contact Phone No.: _____

Contact Email Address: _____

***Remember to include the traits of your entries (Bt, CRW, GLY, LL, BMR, High Oil, Lf = leafy)

**APPLICATION FOR ENTRY - 2009 UNIVERSITY OF MINNESOTA
CORN SILAGE PERFORMANCE TESTING**

Please complete the hybrid information section and fill in the zone in which each hybrid will be tested
Please note: the Brand Name, Hybrid, and RM will be published exactly as they are written below

	Brand Name	Hybrid	RM	Traits	Southeast	Central
Example	ABC Brand	123RRBt	105	RR,Bt	X	X
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
Please make check payable to:					Total number of entries per zone	
University of Minnesota Corn Silage Testing					x \$300	x \$300
Application form is due by: March 20, 2009					Subtotal per zone	\$
Seed (2 lbs. of each entry for each zone entered) is due by: April 10, 2009					Grand Total of all \$	

Affidavit: I hereby certify that the sample of seed submitted in the University of Minnesota Corn Hybrid Performance Test is a representative sample from the variety being sold for commercial planting and is of similar quality and the same genetic background as that seed. Every effort will be made to plant, harvest, and report data for each entry accepted. However should unforeseen circumstances occur causing loss of crop and data, no financial liability, including return of testing fees, is either expressed or implied.

Send to:
M.D. Bickell
Corn Silage Performance Testing
Southern Research and Outreach Center
35838 120th St
Waseca, MN 56093
bicke005@umn.edu

Signature: _____

Company Name: _____

Website: _____

Contact Name: _____

Contact Address: _____

Contact Phone No.: _____

Contact Email Address: _____

***Remember to include the traits of your entries (Bt, CRW, GLY, LL, BMR, High Oil, Lf = leafy)