



Professional Dairy Managers of PA

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February 15, 2010

An invitation to seed industry professionals. . .

The Professional Dairy Managers of Pennsylvania (PDMP) is soliciting entries for the 2010 corn silage hybrid trial. The collaborative effort of PDMP and The Pennsylvania State University maintains a top-notch corn silage hybrid research project.

In November PDMP will present the results of the corn silage hybrid testing as part of the PSU Dairy Nutrition Conference. This presentation allows for open dialogue between the PDMP Corn Silage Committee persons and industry representatives. We encourage you to attend this conference, view the results, and join in on the discussion. More details will be available at a later date.

Please note the following changes will be in place for 2010:

- 1) Groups 0 and 1 as well as Groups 3 and 4 will be planted, tested, and reported together. This will allow for a greater number of hybrids in each group and reduce non-significant findings due to smaller groups
- 2) We will not be planting a separate test for corn rootworm traited hybrids in 2010.
- 3) BMR hybrids are welcome in our testing and will be tested together with non-BMR hybrids. Please identify your BMR's on the entry form.
- 4) We will continue to utilize manure applied plots, visiting with the producers to explain the need for a more even delivery of manure.
- 5) Populations will be reported as is with no thinning.
- 6) In response to input from our PDMP producers, we have added a 101-110 day test at the South Central locations that will be analyzed separately from the central PA test of the 101-110 day hybrids.
- 7) We will describe varieties of entered hybrids on a separate sheet with the details of the traits listed there. However for the year end reports, traits will be reported in a generic fashion as we have in the past.

Online forms can be accessed at: www.pdmp.org Entry forms should be submitted electronically to Tammy Perkins at taperkins10@yahoo.com. Forms can be completed on line.

The maturity groups and associated entry fees for 2010 are as follows:

Group 0 = 88-94 Days Relative Maturity (RM)	\$370
Group 1 = 95-100 Days Relative Maturity	\$370
Group 2 = 101 – 110 Days Relative Maturity	\$530
Group 2SC = 101 – 110 Days Relative Maturity	\$530
Group 3 = 111 – 115 Days Relative Maturity	\$530
Group 4 = 116 – 120 Days Relative Maturity	\$530

The testing protocol and directions for application are attached. The deadline for submission of forms and entry fees is **March 10, 2010**. Seed must be submitted no later than **March 19, 2010**.

Contact Tammy Perkins, Project Liaison at taperkins10@yahoo.com if you have any questions.

Sincerely,

Gary Kline
Research Chair

**2010 Forage Hybrid Trials
PDMP and PSU
Testing Protocols**

Hybrid maturity: In 2010 six maturity groups of hybrids will be evaluated.

Group 0 = 88-94 Days Relative Maturity (RM)
Group 1 = 95-100 Days Relative Maturity
Group 2 = 101 – 110 Days Relative Maturity

Group 2SC = 101 – 110 Days Relative Maturity
Group 3 = 111 – 115 Days Relative Maturity
Group 4 = 116 – 120 Days Relative Maturity

For Groups 0 and 1:

These hybrids will be evaluated at two locations in northern PA and will consist of Group 0 (88 to 94 day) and Group 1 (95 to 100 day) RM hybrids. These hybrids will be combined into a single test in 2010.

For Group 2:

These hybrids will be evaluated at three locations in central PA and will consist of 101 to 110 day RM hybrids. In 2010 we are also conducting a test of Group 2 hybrids (Group 2SC) in the South Central region that will be analyzed separately from the central PA test.

For Groups 3 and 4:

These hybrids will be evaluated in three locations in south central PA. At each location two groups of hybrids will be grown. Group 3 will consist of 111 to 115 day RM hybrids. Group 4 will consist of 116 to 120 day RM hybrids. We will not plant a separate test for corn rootworm hybrids this year. These hybrids will be combined into a single test in 2010.

Locations: Tests will be located on production dairy farm fields on PDMP cooperator farms strategically located in Lancaster, Franklin, Perry, for the Group 3 and 4 hybrids. Group 2 hybrids will be evaluated in Centre, Blair, and Clinton counties. The Group 0 and 1 hybrids will be evaluated in two locations in Bradford County. Within a maturity zone, the same set of hybrids will be evaluated at each location. A backup site will be planted at the Penn State research farm in Landisville for the later maturity groups and at the Rock Springs farm for the Group 2 locations. This will be used if any problems occur at the other sites.

Planting: All hybrids will be replicated three times at each location. Plots will be planted in four row plots 17.5 feet long using a vacuum precision planter set to drop 32-33 kernels per row. All plots following corn will receive a granular insecticide at planting. This test will also be planted in a field previously cropped to corn.

Harvesting: Harvesting will take place when the silage is near 65-70% in each maturity test. Sub samples will be taken from each plot and analyzed for typical corn silage nutrient levels including 24 hour and 30 hour digestibility and NDF digestibility (NDFD) data using NIRS.

Data Reporting: Silage yields and dry matter concentrations at harvest will be reported for each location and also averaged over all locations. Least significant differences and coefficients of variation will be reported for all variables. Forage quality traits with include crude protein, NDF, NDFD (24 and 30 Hour) Starch, NEL, and lignin. Milk/ton and milk/acre will be calculated using the University of Wisconsin Milk 2006 spreadsheet using both 24 and the 30 hour NDFD data. Data will be reported by November 15 on the Department of Crop and Soil Sciences website at <http://cornandsoybeans.psu.edu/>. Seed treatments and biotech traits will be reported with each entry. Two year performance tables will also be developed to show the average performance of hybrids over two years.

Entry Forms & Payment: Entry forms and payments are due to the PDMP office by March 9, 2010.

Seed: Seed (4 lbs, medium round or medium flat) should be sent via UPS, Federal Express, or similar carriers, to the following address: Attn: John Shaffer. Corn Breeding Lab, Ag Seed Building, Fox Hollow Rd., University Park, PA 16802 by March 19, 2010.



2010 CORN SILAGE HYBRID TRIALS
Deadline March 10, 2010



Application Directions:

1) Complete application form:

Maturity Groups:

- Group 0 = 88-94 Days Relative Maturity (RM)
- Group 1 = 95-100 Days Relative Maturity
- Group 2 = 101 – 110 Days Relative Maturity
- Group 2SC = 101 – 110 Days Relative Maturity
- Group 3 = 111 – 115 Days Relative Maturity
- Group 4 = 116 – 120 Days Relative Maturity

2) Submit Email Entry Form Online by March 10, 2010, to:

www.pdmp.org

Click on Silage Research

Or email form to:

Tammy Perkins

PDMP Corn Silage Project Liaison

taperkins10@yahoo.com

3) Submit online payment by March 10, 2010, at:

www.pdmp.org

Click on Silage Research

Or, Mail check payable to **PDMP:**

Tammy Perkins

PDMP Corn Silage

101 Orchard Road

Port Matilda, PA 16870

4) Mail Seed by March 19, 2010:

Send 4 lbs, medium round or medium flat seed via UPS, Federal Express, etc, to:

**John Shaffer, Corn Breeding Lab, Ag Seed Building, Fox Hollow Rd., University
Park, PA 16802 Phone: 814-238-6402**



APPLICATION FOR 2010 FORAGE HYBRID TRIALS

(Please complete and submit electronically)

Deadline March 10, 2010

Name: _____ Company _____

Address: _____ City _____ State _____ Zip _____

Phone: _____ Fax: _____

Email address: _____ Company Web Address: _____

Total Payment Due

Group 0 - Number of Entries _____ x \$370 each = _____

Group 1 - Number of Entries _____ x \$370 each = _____

Group 2 - Number of Entries _____ x \$530 each = _____

Group 2SC - Number of Entries _____ x \$530 each = _____

Group 3 - Number of Entries _____ x \$530 each = _____

Group 4 - Number of Entries _____ x \$530 each = _____

Total Payment Due \$ _____

Preferred method of payment is online at www.pdmp.org

Or

Bill my credit card: _____ Visa _____ MasterCard

Name on card: _____
(please print)

Card No.: _____

Exp Date: _____ Signature: _____

Or

Make check payable to PDMP and mail to:
Tammy Perkins, PDMP
101 Orchard Road
Port Matilda, PA 16870

When the results are available, email reports to these individuals:

Name _____ Email address: _____

Name _____ Email address: _____

Name _____ Email address: _____

