1998 - 99

UNIFORM SOUTHERN SOFT RED WINTER WHEAT NURSERY

Report

Compiled by: H.E. Bockelman and C.A. Erickson, Agronomists

This is a joint progress report of cooperative investigations underway in the State Agricultural Experiment Stations and the Agricultural Research Service of the U.S. Department of Agriculture containing preliminary data which have not been sufficiently confirmed to justify general release; interpretations may be modified with additional experimentation. Confirmed results will be published through established channels. The report is primarily a tool for the use of the cooperators and their official staff and those persons having direct and special interest in the development of agricultural research programs.

This report includes data furnished by the State Agricultural Experiment Stations. The report is not intended for publication and should not be referred to in literature citations nor quoted in publicity or advertising. Use of the data may be granted for certain purposes upon written request to the agency or agencies involved.

USDA-ARS
National Small Grains Germplasm Research Facility
P.O. Box 307
Aberdeen, ID 83210

December, 1999
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Plains, Georgia
cooperators:   David Buntin
University of Georgia
comments: Provided Hessian fly data.

Aberdeen, Idaho
cooperators:   Charles Erickson, Scott McNeil, Harold Bockelman
USDA-ARS National Small Grains Germplasm Research Facility
comments: Nursery was abandoned due to winterkill caused mainly by standing water.

Nashville, Illinois
cooperators:   Koy E. Miskin
Hybritech Seeds International, Inc.
comments: Rhizoctonia and heading notes only.

Lafayette, Indiana
cooperators:   Koy E. Miskin
Hybritech Seeds International, Inc.
comments: Rhizoctonia and heading notes only.

West Lafayette, Indiana
cooperators:   Roger Ratcliffe, Sue Cambron
USDA-ARS Crop Production & Pest Control Research Unit
comments: Provided Hessian fly data.

Fulton Co., Kentucky
cooperators:   David A. Van Sanford
University of Kentucky
planted: 10/20/98
harvested: 6/15/99
fertilizer: P and K according to soil test; N 60# @ GS4, 50# @ GS6

Lexington, Kentucky
cooperators:   David A. Van Sanford
University of Kentucky
planted: 10/21/98
harvested: 6/30/99
fertilizer: P and K according to soil test; N 60# @ GS4, 50# @ GS6

Winfield, Kansas
cooperators:   Sid W. Perry
Cargill-Goertzen Seed Research
comments: Nursery was lost due to poor stands caused by heavy rains in the fall.
Baton Rouge, Louisiana
cooperators: Stephen A. Harrison, K. Arceneaux
Louisiana State University
planted: 11/27/99
harvested: 5/21/99
fertilizer: 106-48-48
Comments: Very warm winter with a number of lines that failed to vernalize. These are not entered into the yield mean. **Lodging notes were taken very early (4-19, day 109). This note indicates lodging resulting from minor freeze damage, not stalk lodging. Most plots collapsed in the center, leaving the outside rows standing upright, during early grainfill. Large heading differences resulted in some varieties weathering considerably before harvest and biased test weights. Additionally, the freeze-lodging resulted in each plot having a mix of high quality seed (out side rows) and low quality seed (interior rows).

Queenstown, Maryland
cooperators: Jose Costa, Emma Shirley
University of Maryland
planted: 10/15/98
harvested: 7/12/99
fertilizer: fall 16-34-66; spring 80-0-0
comments: Mild winter. Dry and hot spring. Some test weights low due to pre-harvest sprouting.

St. Paul, Minnesota
cooperators: Donald V. McVey, David L. Long
USDA-ARS Cereal Disease Laboratory
comments: Provided seedling leaf rust (Dave Long) and stem rust (Don McVey) data.

Brooksville, Mississippi
cooperators: Larry E. Trevathan
Mississippi State University
harvested: 6/17/99

Cleveland, Mississippi
cooperators: J. Barton Fogleman, Michael L. Montgomery
AgriPro Seeds, Inc.
planted: 10/13/98
harvested: 5/28/99
comments: Plot yields highly variable due to lodging (probably related to high residual N).

Portageville, Missouri
cooperators: Anne L. McKendry, David N. Tague
University of Missouri
planted: 10/22/98
harvested: 7/2/99
fertilizer: fall 40-0-0; spring 80-0-0
comments: Fall was very wet, both before and after planting, reducing stands (as reflected in low survival). Winter was very mild, not a lot of disease pressure although leaf rust evident at heading.

Lincoln, Nebraska
cooperators: Robert A. Graybosch
USDA-ARS Wheat, Sorghum, and Forage Research Unit
comments: Provided the rye chromosome substitution data.
Kinston, North Carolina
cooperators: Paul Murphy
North Carolina State University
planted: 10/20/98
harvested: 6/3/99
fertilizer: 120-0-0
comments: Very mild winter, but late freeze knocked back early materials. Heavy mildew
and BYDV. Rust came in late. An average to good test.

Raleigh, North Carolina
cooperators: Steven Leath
USDA-ARS Plant Science Research Unit
comments: Powdery mildew evaluations were completed on detached primary leaves from
ten day old plants. Leaves were cut into 3 cm sections and suspended on 0.5 %
water agar amended with 50 ppm benzimidazole. Leaf sections were uniformly
inoculated with conidia of *Blumeria graminis* f. sp. *tritici* (=*Erysiphe graminis* f.
sp. *tritici*). The leaf sections were evaluated eight and ten days after inoculation
on a ten point scale. The data from two replications and two rating dates were
combined and condensed into one of three categories: Resistant (R),
Intermediate (I), or Susceptible (S). A total of thirty-eight isolates were used to
represent all relevant virulence genes known and a range in aggressiveness. A
number of common checks also were included.

Rowland, North Carolina
cooperators: Benjamin E. Edge
Pioneer Hi-Bred International, Inc.
planted: 11/24/98
harvested: 7/9/99
fertilizer: preplant 20-52-144-16; topdress 80-0-0-0
comments: Drier than normal growing season. Cool spring. Frequent rains during harvest.

Wooster, Ohio
cooperators: Kim Campbell, Larry Herald, Barb Franchino
Ohio State University, OARCD
planted: 9/28/98
harvested: 7/9&12/99
fertilizer: 12-48-48; topdress 100-0-0
comments: Mild winter; warm, dry spring. Light disease pressure. Early harvest. Second
lodging rating was harder on lines.

Wooster, Ohio
cooperators: Patrick L. Finney
USDA-ARS Soft Wheat Quality Lab
comments: Quality data. Region 1 (interior, lower leaf rust) includes samples from: Bay,
AR; Stuttgart, AR; Queenstown, MD; Univ. Park, PA; Clemson, SC; Knoxville,
TN; Overton, TX; Warsaw, VA. Region 2 (warmer, higher leaf rust) includes
samples from: Belle Mina, AL; Marianna, FL; Griffin, GA; Plains, GA; 
Brooksville, MS; Kinston, NC; Florence, SC; St. Matthews, SC.

Stillwater, Oklahoma
cooperators: Brett F. Carver, Melisa Rice
Oklahoma State University
comments: Standard used to set scale for acid soil tolerance was 2163, with an assigned
value of 2 on a scale of 1 (tolerant) to 5 (susceptible).
University Park, Pennsylvania
cooperators: Marvin L. Risius
Pennsylvania State University
planted: 9/30/98
harvested: 7/10/99
fertilizer: 80-26-50
comments: Winter weather was mild with limited snow cover. Rainfall was 23% above average in April, 60% below average in May, and 30% below average in June.

Clemson, South Carolina
cooperators: W. Doyce Graham, Jr.
Clemson University
planted: 10/28/98
harvested: 6/7/99
fertilizer: 80-70-70

Florence, South Carolina
cooperators: W. Doyce Graham, Jr.
Clemson University
planted: 11/19/98
harvested: 6/3/99
fertilizer: 80-70-70

St. Matthews, South Carolina
cooperators: Benjamin E. Edge
Pioneer Hi-Bred International, Inc.
planted: 12/4/98
harvested: 6/10/99
fertilizer: preplant 30-25-100-15; topdress 80-0-0-0
comments: Extremely dry growing conditions from March 1 to harvest.

Knoxville, Tennessee
cooperator: Dennis West
University of Tennessee
planted: 11/3/98
harvested: 6/15/99
fertilizer: 70-75-75
comments: Very mild winter. Very dry during grain fill with light disease pressure.

Beeville, Texas
cooperators: David S. Marshall
Texas A&M University

Overton, Texas
cooperators: Lloyd R. Nelson
Texas A&M University
planted: 10/22/98
harvested: 5/19/99
fertilizer: preplant 50-100-100; topdress 27-0-0 on 2/1, 25-50-50 on 2/3, 52-52-52 on 2/23, 30-0-0 on 3/1

Prosper, Texas
cooperators: David S. Marshall
Texas A&M University
Warsaw, Virginia
cooperators: Carle A. Griffey
Virginia Tech
planted: 1/05/98
harvested: 6/26/99
fertilizer: 10/5 30-30-100; 12/5 20-0-0 and 0.4oz Harmony Extra; 2/1 30-0-0; 3/30 60-0-0;
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LOCATION MEANS: 63.6, 79.0, 54.9, 33.5, 30.0
LSD (.05): 10.2, 12.3, 7.1, 6.67, 11.5
CV %: 12, 9.5, 7.9, 16.99, 23.1
REPS: 3, 3, 3, 4, 3
Harvest Plot Area (sq.ft.): 57, 56, 55.5, 95, 52
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LOCATION MEANS
- LSD (.05) = 55.2
- CV % = 10.7
- REPS = 3
- Harvest Plot Area (sq.ft.) = 55
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**LOCATION MEANS**
- Florence: 59.6
- St. Matthews: 35.9
- Knoxville: 89.1
- Overton: 38.9
- Prosper: 52.6

**LSD (.05)**
- Florence: 8.7
- St. Matthews: 11.95
- Knoxville: 11.6
- Overton: 38.6
- Prosper: 9.5

**CV %**
- Florence: 9
- St. Matthews: 17.95
- Knoxville: 8
- Overton: 13.9
- Prosper: 12.6

**REPS**
- Florence: 3
- St. Matthews: 3
- Knoxville: 3
- Overton: 3
- Prosper: 3

**Harvest Plot Area (sq.ft.)**
- Florence: 35
- St. Matthews: 49.5
- Knoxville: 36
- Overton: 50
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LOCATION MEANS 66.4
LSD (.05) 11.47
CV % 12.71
REPS 3
Harvest Plot Area (sq.ft.) 45
## TEST WEIGHT (lbs/bu)

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**LOCATION MEANS**

| Growth Stage/Date | 2.4 | 0.0 | 0.0 | 4.4 | 1.7 |

*April 19*  
See location notes
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**LOCATION MEANS**

- Brooksville: 0.2
- Cleveland early: 1.9
- Cleveland late: 5.4
- Wooster early: 3.8
- Wooster late: 25.3

**GROWTH STAGE/DATE**

- March 12
- April 28
- June 11
- July 7
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LOCATION MEANS 8.4 0.7
GROWTH STAGE/DATE
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**GROWTH STAGE/DATE**
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| Coker 9835       |          |                   | 0.5    | 1.8            | 5.3            | 8.6            |
| Coker 9663       |          |                   | 0.0    | 1.8            | 5.3            | 11.5           |
| Mason            |          |                   | 0.0    | 1.8            | 5.3            | 14.5           |
| AR 494B-2-2      |          |                   | 1.0    | 1.8            | 5.3            | 17.5           |
| GA89482E7        |          |                   | 0.5    | 1.8            | 5.3            | 20.5           |
| BL930390         |          |                   | 0.0    | 1.8            | 5.3            | 23.5           |
| SC921285         |          |                   | 0.5    | 2.3            | 5.3            | 26.5           |
| SC921299         |          |                   | 0.0    | 2.3            | 5.3            | 29.5           |
| FL8868           |          |                   | 0.0    | 2.3            | 5.3            |                |
| AR584A-3-1       |          |                   | 0.0    | 2.3            | 5.3            |                |
| NC94-7197        |          |                   | 0.5    | 2.3            | 5.3            |                |
| AP-D94-5282      |          |                   | 0.0    | 2.3            | 5.3            |                |
| GA90524E35       |          |                   | 0.0    | 2.3            | 5.3            |                |
| GA901146E15      |          |                   | 0.5    | 3.0            | 5.3            |                |
| S9412192         |          |                   | 0.0    | 3.0            | 5.3            |                |
| HT98-10291       |          |                   | 0.5    | 3.0            | 5.3            |                |
| HT98-10033       |          |                   | 0.5    | 3.0            | 5.3            |                |
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| XW674            |          |                   | 1.0    | 3.0            | 5.3            |                |
| BL940026         |          |                   | 0.0    | 3.0            | 5.3            |                |
| BL940812         |          |                   | 0.0    | 3.0            | 5.3            |                |
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| NC95-25707       |          |                   | 0.0    | 3.0            | 5.3            |                |
| VA96-54-326      |          |                   | 1.0    | 3.0            | 5.3            |                |
| VA97W-375        |          |                   | 0.5    | 3.0            | 5.3            |                |
| TX91-13          |          |                   | 0.0    | 3.0            | 5.3            |                |
| TX87-20          |          |                   | 0.5    | 3.0            | 5.3            |                |
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| LA90144B16-3-2   |          |                   | 0.5    | 3.0            | 5.3            |                |
| LA90412F14-1-4   |          |                   | 0.0    | 3.0            | 5.3            |                |
| LA9070G45-3-3-1  |          |                   | 0.0    | 3.0            | 5.3            |                |

**LOCATION MEANS**

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* Single genes tested = 1, 2a, 2c, 3, 3ka, 9, 10, 11, 16, 17, 18, 24, 26, 30

**Virulence Formula:****

- **BBBB** = no virulence
- **MCRO** = Lr, 1, 3, 3ka, 10, 11, 18, 26, 30
- **MCDL** = Lr, 1, 3, 10, 17, 26
- **LBBQ** = Lr, 1, 10, 18
- **TFBL** = Lr, 1, 2a, 2c, 3, 10, 24, 26
- **TLGG** = Lr, 1, 2a, 2c, 3, 9, 11, 18
- **PNMQ** = Lr, 1, 2c, 3, 3ka, 9, 10, 18, 24
- **TDGL** = Lr, 1, 2a, 2c, 3, 10, 11, 24
- **FLML** = Lr, 2c, 3, 3ka, 9, 10, 30

***0 = no gene(s) detected with these Lr combinations; += Lr gene(s) present but unable to identify with these Lr virulence combinations**
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GROWTH STAGE/DATE

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GROWTH STAGE/DATE: March 30
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LOCATION MEANS
GROWTH STAGE/DATE

|                | AL 0.1 | FL 2.6 | GA 3.9 | IL 2.1 | KY 4.6 |
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**GROWTH STAGE/DATE**

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| 7 BL930390     | R | R | S | R | S | R | S | S |
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**GROWTH STAGE/DATE**

based on black heads after ripening
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- **soilborne mosaic**
- **spindletree mosaic**
- **soilborne & spindle streak**

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**mean 6 ratings**

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**LOCATION MEANS**  
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**GROWTH STAGE/DATE**  
April 28

1=excellent; 9=very poor
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- 1 = tolerant; 5 = susceptible
- see location notes
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**LOCATION MEANS**
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**GROWTH STAGE/DATE**
April 8

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LOCATION MEANS 2.1

1=no vernalization
2=vernalized but late maturity
3=completely vernalized
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1999 Crop  
Advanced Nursery Evaluation  
MBQ - Uniform Southern Nursery

35 USN composites were submitted from each of two regions. Region 1 represents interior and lower leaf rust environments, and Region 2 was a more humid environment, with more leaf rust.

Each region was analyzed separately, using the FLA 302 checks as the standards. Additionally, data from both regions were combined, and samples were compared to the mean data of both FLA 302 checks. This allows comparison between regions.

In the SWQL data-base of 232 Quad-milled cultivars, FLA 302 ranked 80th for adjusted yield, based on data from 18 millings.

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<th>Data-base</th>
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<td>Top Grain</td>
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From the above table, it is possible to see that both regions were very similar. The only differences between regions were the S.E. values (3.1% difference). The standards were slightly more stringent than the historical data.

The table that compares both regions reveals that region 1 had significantly higher values (a mean of 57.1% vs. 54.1%), and cookie diameters that averaged .23cm. larger.
Entries #16 (SC9412192) and #27 (NC 95-25707) both scored poorly for Baking Quality. SC 9412192 had high A.W.R.C. and small cookie diameter. It also had low adjusted yield, averaging 67.1%. NC 95-25707 had a very low S.E., averaging 44.7%. This cultivar also had high A.W.R.C. and very small cookies.

Entries #22 (BL 940812) and #34 (LA 90412F14-1-4) both had high test weights for both regions.

Entry #21 (BL 940026) stood out with high Adjusted Yield (73.3% avg.), low A.W.R.C., and good cookie diameter.

Entries with Combined Quality Scores of "A" or "B" generally were acceptable, although several had low adjusted yields. "C" entries usually had small cookie diameters, or other quality shortcomings.
UNIFORM SOFT RED WINTER WHEAT NURSERY, 1999

MILLING QUALITY SCORE

Baking Quality Score

Combined Quality Score

Entry

Region 1  Region 2  Mean
UNIFORM SOFT RED WINTER WHEAT NURSERY, 1999

TEST WEIGHT - LB/BU

SOFTNESS EQUIVALENT - %

ADJUSTED FLOUR YIELD - %

ENTRY

REGION 1  REGION 2  MEAN
UNIFORM SOFT RED WINTER WHEAT NURSERY, 1999

Flour Protein - %

A.W.R.C. - %

Cookie Diameter - cm.

ENTRY

REGION 1  REGION 2  MEAN
## Advanced Nursery Evaluation

### For Soft Wheat Milling and Baking Quality

**MQB-USN**  
**Region 1**

**STD= #3107, FL 302**

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<tr>
<th>LAB ENTRY</th>
<th>MILLING QUALITY SCORE</th>
<th>BAKING QUALITY SCORE</th>
<th>COMBINED QUALITY SCORE</th>
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<th>FLOUR YIELD</th>
<th>FLOUR PROT.</th>
<th>MICRO AWRC</th>
<th>COOKIE DIAM.</th>
<th>TOP GR.</th>
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DATA RANKED ACCORDING TO ADvanced Nursery Evaluation Page 1
COMBINED QUALITY SCORE FOR SOFT WHEAT MILLING AND BAKING QUALITY

MQB-USN
REGION 1

STD= #3107, FL 302

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**REGION 1**

STD= #3107, FL 302

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## ADVANCED NURSERY
### EVALUATION SUMMARY
#### 1999 CROP

**MBQ-USN**  
**REGION 1**

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DATA RANKED ACCORDING TO ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

MQB-USN
REGION 2

STD= #3157, FL 302

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## ADVANCED NURSERY
EVALUATION SUMMARY
1999 CROP

### MBQ-USN
REGION 2

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**TOTAL** 35

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**TOTAL** 77
MQB-USN
BOTH REGIONS

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MQB-USN
BOTH REGIONS

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### ADVANCED NURSERY EVALUATION

**FOR SOFT WHEAT MILLING AND BAKING QUALITY**

**MQB-USN**

**BOTH REGIONS**

**STD= AVG OF TWO FL 302 ENTRIES**

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### 1999 CROP

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