# SOUTHERN UNIFORM WINTER WHEAT SCAB NURSERY

# 2012 NURSERY REPORT

J. P. Murphy
R. A. Navarro

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This is a progress report of cooperative investigations underway and funded by the U. S. Wheat and Barley Scab Initiative, State Agricultural Experiment Stations, private companies and the United States Department of Agriculture, Agricultural Research Service. This report contains preliminary data that 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 a tool for the use of the cooperators and their official staff and those persons having direct interest in the development of agricultural research programs. This report is not intended for publication and should not be referred to in literature citations or quoted in publicity or advertising. Use of the data may be granted for certain purposes upon written request to the authors.

This material is based upon work supported by the U.S. Department of Agriculture, under Agreement No. 59-0790-4-117. This is a cooperative project with the U.S. Wheat & Barley Scab Initiative. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the authors and do not necessarily reflect the view of the U.S. Department of Agriculture.

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December 1, 2012

This Report is available on the Web at;
http://scabusa.org/
**RESEARCH UPDATES/REPORTS/PUBLICATIONS**

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## LOCATION NOTES

**Brookston, Indiana**
- Cooperator: Barton Fogleman, Jennifer Vonderwell.
- Agripro-Syngenta Seeds Inc.

**Fayetteville and Newport, Arkansas**
- Cooperator: Gene Milus
- University of Arkansas

**Urbana, Illinois**
- Cooperators: Fred Kolb and Eric Brucker.
- University of Illinois

**Lexington, Kentucky**
- Cooperators: Nicki Mundell and Dave Van Sanford
- University of Kentucky

**Blacksburg, Virginia**
- Cooperators: Carl A. Griffey.
- Virginia Tech

**Kinston, North Carolina**
- Cooperators: Rene Navarro, Paul Murphy, Christina Cowger
- North Carolina State University

**Columbia, Missouri**
- Cooperators: Anne L. McKendry and David Tague.
- University of Missouri

**Salisbury, Maryland.**
- Cooperators: Jose Costa, and Aaron Cooper.
- University of Maryland.

**Crowley, Louisiana.**
- Cooperators: Harrison, and Arceneaux,.
- Louisiana State University.

**Griffin, Georgia**
- Cooperator: Jerry Johnson.
- University of Georgia.

**Fundulea, Romania.**
- Cooperator: Marianna Ittu.
- National Agricultural Research Development Institute.

**Szeged, Hungary.**
- Cooperator: Akos Mesterhazy.
- Cereal Research Institute.

**Raleigh, North Carolina**
Cooperator: Gina Brown-Guedira
USDA-ARS Eastern Regional Small Grains Genotyping Lab

**West Lafayette, Indiana**
Cooperator: Sue Cambron
USDA-ARS Crop Production and Pest Control Research Unit:

- Hessian Fly resistance evaluations.

**Wooster, Ohio**
USDA-ARS Soft Wheat Quality Laboratory

- Milling and Baking Quality evaluations.

**"Look! There is UMN10. It's almost diagnostic for *Fhb1* , you know.**

**Plots were inoculated with three applications of four grams of autoclaved corn seed infected with *F. graminearum* isolates collected from the previous year's crop. Corn was applied three, two, and one week prior to anthesis.**

**Evaluation began 21 days following spray inoculation.**

**View original, color versions of photographs at: http://www.scabusa.org/research_vdhr.html#vdhr-updates**

# Entry List and Pedigrees, 2012 Nursery

| ENTRY NO | CULTIVAR/ DESIGNATION | *PEDIGREE* | CONTRIBUTOR | IN NURSERY SINCE |
|---|---|---|---|---|
| 1 | ERNIE | *Check* | CHECK(RES) | 1999-00 |
| 2 | COKER 9835 | *Check* | CHECK(SUS) | 2000-01 |
| 3 | BESS | *MO11769/Madison* | CHECK(RES) | 2006-07 |
| 4 | JAMESTOWN | *Roane / Pioneer 2691* | Check (RES) | 2007-08 |
| 5 | NC09-21916 | *B990081 / NC96BGTA6 // McCormick* | Murphy | 2111-12 |
| 6 | VA08W-613 | *FREEDOM / NEUSE"S" // VA98W-688* | Griffey | 2010-11 |
| 7 | M08-8036# | *COKER 9511/BRANSON* | Fogleman | 2010-11 |
| 8 | IL02-18228 | *Pio25R26/ IL9634-24437 (IL90-4813/IL85-3132//Ning 7840) // IL95-4162* | Kolb | 2010-11 |
| 9 | ARS07-1214 | *McCormick/Dominator* | Marshall | 2011-12 |
| 10 | ARS09-173 | *GA961565-27-6/TAM303* | Marshall | 2011-12 |
| 11 | ARS09-367 | *McCormick/Dominator* | Marshall | 2011-12 |
| 12 | ARS09-446 | *FL89250/WX02ARS130* | Marshall | 2011-12 |
| 13 | ARS09-513 | *GA931233-1-5/PI434658* | Marshall | 2011-12 |
| 14 | ARS09-595 | *KS2055/NC96BGTD3* | Marshall | 2011-12 |
| 15 | ARS09-643 | *LA95283CA78-1-2-B/TAM303* | Marshall | 2011-12 |
| 16 | ARS09-724 | *AR800-1-3-1/WX03ARS0011* | Marshall | 2011-12 |
| 17 | GA 051173W-S11 | *Truman /AGS 2010* | Johnson | 2011-12 |
| 18 | GA 051207-S19 | *AGS 2000/SC996284//IN 981359C1* | Johnson | 2011-12 |
| 19 | GA 051207-S21 | *AGS 2000/SC996284//IN 981359C1* | Johnson | 2011-12 |
| 20 | GA 051173-S25 | *Truman /AGS 2010* | Johnson | 2011-12 |
| 21 | GA 051173-S18 | *Truman /AGS 2010* | Johnson | 2011-12 |
| 22 | GAMD08-27-E9-S13 | *SS 8641//McCormick 82/Ning 7840* | Johnson | 2011-12 |
| 23 | GAMD08-27-E9-S14 | *SS 8641//McCormick 82/Ning 7840* | Johnson | 2011-12 |
| 24 | GAMD08-27-E9-S15 | *SS 8641//McCormick 82/Ning 7840* | Johnson | 2011-12 |
| 25 | LA'04039C-14-8 | *AGS 2060/ARLA97-1047-4-2* | Milus/Harrison | 2011-12 |
| 26 | LA'04039C-10-6 | *AGS 2060/ARLA97-1047-4-2* | Milus/Harrison | 2011-12 |
| 27 | LA05102C-1-2 | *LA96140BUA70-2/JAMESTOWN* | Milus/Harrison | 2011-12 |
| 28 | LA05102C-8-8 | *LA96140BUA70-2/JAMESTOWN* | Milus/Harrison | 2011-12 |
| 29 | LA05079D-55 | *(LA04153)GA971127-14-6-6/LA841,F1//ARLA97-1033-3-5(Freedom/Catbird)* | Harrison | 2011-12 |
| 30 | LA05079F-P01 | *(LA04153)GA971127-14-6-6/LA841,F1//ARLA97-1033-3-5(Freedom/Catbird)* | Harrison | 2011-12 |
| 31 | LA05079F-P03 | *(LA04153)GA971127-14-6-6/LA841,F1//ARLA97-1033-3-5(Freedom/Catbird)* | Harrison | 2011-12 |
| 32 | LA05145D-12 | *JAMESTOWN/LA97113UC-124 - USED IN MAP STUDY* | Harrison | 2011-12 |
| 33 | LA05145D-24 | *JAMESTOWN/LA97113UC-124 - USED IN MAP STUDY* | Harrison | 2011-12 |
| 34 | MD03W61-11-2(11PW#108) | *25R42/Chesapeake* | Costa | 2011-12 |
| 35 | MD03W61-11-3(11PW#109) | *25R42/Chesapeake* | Costa | 2011-12 |
| 36 | UX0066-4-79(11PW#183) | *Neuse*2/VA01W-476//SS8641* | Costa | 2011-12 |
| 37 | MD08-22-1-6-4(11PW#189) | *Ning7840*3/McCormick* | Costa | 2011-12 |
| 38 | MD08-26-H2-23(11CVM-3) | *Ning7840*3/McCormick//SS8641* | Costa | 2011-12 |
| 39 | MH07-7483 | *M95-2994-1/P 25R57* | Fogleman | 2011-12 |
| 40 | M09-9826# | *COKER 9511/M03-3002* | Fogleman | 2011-12 |
| 41 | NC08-23323 | *B960164 / NC94-7197 // McCormick* | Murphy | 2011-12 |
| 42 | NC08-23324 | *B960164 / NC94-7197 // McCormick* | Murphy | 2011-12 |
| 43 | NC09-22422 (Fhb1) | *NC00-15332 / VA01-476 // Dominion* | Murphy | 2011-12 |
| 44 | NC09-20986 (Fhb1) | *NC00-15332 / VA01-476 // Dominion* | Murphy | 2011-12 |
| 45 | NC8355-4 (Fhb1) | *Oglethorpe / NC03-11465* | Murphy | 2011-12 |
| 46 | NC8452-2 | *VA05W-500 / NC-Neuse* | Murphy | 2011-12 |
| 47 | VA09W-52 | *GF921221E16 / McCormick"S" // VA99W-200* | Griffey | 2011-12 |
| 48 | VA09W-73 | *SS 520 (VA96W-158) / VA99W-188 // TRIBUTE* | Griffey | 2011-12 |
| 49 | VA09W-75 | *SS 520 (VA96W-158) / VA99W-188 // TRIBUTE* | Griffey | 2011-12 |
| 50 | VA10W-42 | *JAMESTOWN / M99*3098 (TX85-264/VA88-52-69)* | Griffey | 2011-12 |
| 51 | VA10W-140 | *VA01W-210 / SS 520 (VA96W-158) // TRIBUTE* | Griffey | 2011-12 |

# FHB Incidence (1-100)

| | CULTIVAR/ DESIGNATION | KINSTON NC | S'BURY MD | B'BURG VA | LEX'TON KY | GRIFFIN GA | COL'BIA MO | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 29 | 15 | 0 | 30 | 13 | 78 | 27 | 6 |
| 2 | COKER 9835 | 88 | 85 | 53 | 70 | 72 | 85 | 75 | 51 |
| 3 | BESS | 17 | 25 | 13 | 25 | 4 | 28 | 18 | 1 |
| 4 | JAMESTOWN | 40 | 20 | 28 | 40 | 6 | 93 | 38 | 19 |
| 5 | NC09-21916 | 29 | 18 | 10 | 45 | 4 | 70 | 29 | 9 |
| 6 | VA08W-613 | 45 | 35 | 15 | 40 | 24 | 88 | 41 | 28 |
| 7 | M08-8036# | 14 | 60 | 25 | 45 | . | 80 | 39 | 20 |
| 8 | IL02-18228 | 5 | 25 | 15 | 25 | . | 55 | 19 | 2 |
| 9 | ARS07-1214 | 52 | 80 | 93 | 90 | 2 | 97 | 69 | 50 |
| 10 | ARS09-173 | 67 | 25 | 25 | 30 | 19 | 80 | 41 | 28 |
| 11 | ARS09-367 | . | 70 | 68 | 75 | 2 | 99 | 62 | 49 |
| 12 | ARS09-446 | . | 55 | 30 | 55 | 27 | 99 | 52 | 46 |
| 13 | ARS09-513 | 60 | 40 | 13 | 70 | 37 | 92 | 52 | 46 |
| 14 | ARS09-595 | 53 | 45 | 25 | 60 | 13 | 97 | 49 | 42 |
| 15 | ARS09-643 | . | 35 | 18 | 50 | 5 | 95 | 39 | 20 |
| 16 | ARS09-724 | 43 | 35 | 25 | 45 | 3 | 83 | 39 | 20 |
| 17 | GA 051173W-S11 | 30 | 40 | 13 | 35 | 4 | 78 | 33 | 13 |
| 18 | GA 051207-S19 | 33 | 35 | 38 | 50 | 3 | 90 | 41 | 28 |
| 19 | GA 051207-S21 | 28 | 30 | 30 | 55 | 6 | 88 | 39 | 20 |
| 20 | GA 051173-S25 | 52 | 50 | 13 | 65 | 20 | 95 | 49 | 42 |
| 21 | GA 051173-S18 | 20 | 20 | 15 | 50 | 10 | 78 | 32 | 11 |
| 22 | GAMD08-27-E9-S13 | 45 | 15 | 35 | 65 | , | 75 | 41 | 28 |
| 23 | GAMD08-27-E9-S14 | 30 | 40 | 40 | 50 | , | 73 | 41 | 28 |
| 24 | GAMD08-27-E9-S15 | 34 | 20 | 25 | 65 | , | 83 | 39 | 20 |
| 25 | LA'04039C-14-8 | . | 15 | 8 | 60 | 4 | 97 | 36 | 16 |
| 26 | LA'04039C-10-6 | . | 20 | 43 | 30 | 2 | 85 | 35 | 14 |
| 27 | LA05102C-1-2 | . | 10 | 8 | 50 | 4 | 70 | 27 | 6 |
| 28 | LA05102C-8-8 | . | 13 | 15 | 40 | 4 | 75 | 28 | 8 |
| 29 | LA05079D-55 | . | 75 | 18 | 55 | 8 | 92 | 48 | 41 |
| 30 | LA05079F-P01 | 60 | 65 | 18 | 40 | 8 | 85 | 46 | 39 |
| 31 | LA05079F-P03 | 33 | 25 | 43 | 55 | 8 | 88 | 42 | 36 |
| 32 | LA05145D-12 | 43 | 75 | 23 | 60 | 6 | 90 | 49 | 42 |
| 33 | LA05145D-24 | 56 | 40 | 65 | 65 | 22 | 88 | 56 | 48 |
| 34 | MD03W61-11-2 | 35 | 15 | 23 | 60 | 9 | 93 | 39 | 20 |
| 35 | MD03W61-11-3 | 29 | 45 | 18 | 60 | 27 | 78 | 43 | 37 |
| 36 | UX0066-4-79 | 20 | 20 | 53 | 50 | 20 | 63 | 37 | 17 |
| 37 | MD08-22-1-6-4 | 7 | 10 | 28 | 35 | , | 60 | 22 | 3 |
| 38 | MD08-26-H2-23 | 23 | 25 | 18 | 35 | 8 | 76 | 31 | 10 |
| 39 | MH07-7483 | 22 | 75 | 48 | 70 | 2 | 88 | 51 | 45 |
| 40 | M09-9826# | 48 | 15 | 30 | 40 | 2 | 78 | 35 | 14 |
| 41 | NC08-23323 | 47 | 30 | 28 | 35 | 7 | 85 | 39 | 20 |
| 42 | NC08-23324 | 42 | 40 | 50 | 60 | 2 | 80 | 46 | 39 |
| 43 | NC09-22422 (Fhb1) | 40 | 13 | 8 | 40 | 2 | 88 | 32 | 11 |
| 44 | NC09-20986 (Fhb1) | 14 | 25 | 5 | 35 | 12 | 63 | 26 | 4 |
| 45 | NC8355-4 (Fhb1) | 18 | 8 | 15 | 40 | 2 | 73 | 26 | 4 |
| 46 | NC8452-2 | 18 | 40 | 50 | 55 | . | 73 | 41 | 28 |
| 47 | VA09W-52 | 48 | 40 | 25 | 40 | 21 | 90 | 44 | 38 |
| 48 | VA09W-73 | 20 | 35 | 40 | 40 | . | 97 | 40 | 27 |
| 49 | VA09W-75 | 30 | 15 | 23 | 60 | 6 | 90 | 37 | 17 |
| 50 | VA10W-42 | 9 | 45 | 47 | 50 | . | 85 | 41 | 28 |
| 51 | VA10W-140 | 19 | 65 | 20 | 30 | 26 | 88 | 41 | 28 |
| | Mean | 35 | 36 | 28 | 49 | 12 | 82 | 41 | |
| | LSD (0.05) | 24 | 27 | 22 | 33 | . | . | 26 | |
| | CV% | 34.0 | 37.2 | 39.6 | 33.0 | . | . | 32.2 | |

# FHB Severity ( 1-100)

| | CULTIVAR/ DESIGNATION | F'VILLE AR | RANK | N'PORT AR | RANK | S'BURY MD | RANK | B'BURG VA | RANK | COL'BIA MO | RANK | K'STON NC | RANK | LEX'TON KY | RANK | SZEGED[1] HUN | RANK | FUN'LEA[1] ROM | RANK | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 2 | 11 | 7 | 18 | 8 | 3 | 0 | 1 | 16 | 19 | 14 | 14 | 9 | 2 | 12 | 18 | 51 | 25 | 8 | 6 |
| 2 | COKER 9835 | 63 | 46 | 57 | 48 | 50 | 47 | 10 | 48 | 38 | 43 | 63 | 42 | 50 | 49 | 25 | 51 | 64 | 29 | 44 | 49 |
| 3 | BESS | 3 | 13 | 0 | 1 | 10 | 13 | 1 | 2 | 3 | 1 | 14 | 14 | 8 | 1 | 17 | 43 | 53 | 26 | 7 | 2 |
| 4 | JAMESTOWN | 0 | 1 | 6 | 17 | 8 | 3 | 3 | 26 | 20 | 27 | 15 | 20 | 19 | 17 | 16 | 37 | 92 | 34 | 11 | 14 |
| 5 | NC09-21916 | 7 | 21 | 7 | 18 | 20 | 25 | 1 | 2 | 13 | 15 | 24 | 28 | 23 | 27 | 14 | 28 | 100 | 39 | 14 | 24 |
| 6 | VA08W-613 | 11 | 29 | 10 | 23 | 10 | 13 | 1 | 2 | 10 | 9 | 9 | 6 | 10 | 3 | 14 | 28 | 45 | 21 | 9 | 7 |
| 7 | M08-8036# | 7 | 21 | 4 | 11 | 25 | 28 | 3 | 26 | 12 | 10 | 11 | 10 | 20 | 21 | 14 | 28 | 100 | 39 | 12 | 17 |
| 8 | IL02-18228 | 6 | 18 | 1 | 3 | 8 | 3 | 1 | 2 | 6 | 2 | 7 | 1 | 13 | 6 | 15 | 33 | 100 | 39 | 7 | 2 |
| 9 | ARS07-1214 | 75 | 48 | 3 | 8 | 65 | 51 | 22 | 51 | 79 | 51 | 33 | 34 | 64 | 50 | 16 | 37 | 69 | 31 | 45 | 50 |
| 10 | ARS09-173 | 37 | 43 | 23 | 40 | 15 | 20 | 4 | 35 | 27 | 37 | 45 | 40 | 10 | 4 | 12 | 18 | 100 | 39 | 22 | 40 |
| 11 | ARS09-367 | 73 | 47 | 22 | 39 | 60 | 50 | 15 | 49 | 76 | 50 | . | . | 68 | 51 | 21 | 50 | 46 | 23 | 49 | 51 |
| 12 | ARS09-446 | 32 | 41 | 27 | 42 | 35 | 37 | 4 | 35 | 53 | 49 | . | . | 25 | 31 | 13 | 22 | 91 | 33 | 28 | 44 |
| 13 | ARS09-513 | 43 | 45 | 28 | 44 | 35 | 37 | 1 | 2 | 23 | 30 | 65 | 43 | 18 | 13 | 19 | 47 | 95 | 37 | 29 | 48 |
| 14 | ARS09-595 | 37 | 43 | 30 | 45 | 50 | 47 | 3 | 26 | 47 | 46 | 14 | 14 | 21 | 25 | 19 | 47 | 100 | 39 | 28 | 44 |
| 15 | ARS09-643 | 23 | 40 | 23 | 40 | 40 | 42 | 2 | 14 | 30 | 38 | . | . | 29 | 36 | 19 | 47 | 100 | 39 | 24 | 42 |
| 16 | ARS09-724 | 9 | 26 | 7 | 18 | 20 | 25 | 3 | 26 | 26 | 36 | 30 | 33 | 25 | 29 | 15 | 33 | 100 | 39 | 17 | 28 |
| 17 | GA 051173W-S11 | 22 | 37 | 10 | 23 | 30 | 34 | 1 | 2 | 17 | 21 | 28 | 31 | 19 | 16 | 15 | 33 | 96 | 38 | 18 | 29 |
| 18 | GA 051207-S19 | 13 | 32 | 18 | 36 | 15 | 20 | 5 | 38 | 35 | 40 | 19 | 25 | 25 | 30 | 13 | 22 | 93 | 36 | 18 | 29 |
| 19 | GA 051207-S21 | 10 | 27 | 17 | 34 | 28 | 33 | 2 | 14 | 30 | 38 | 28 | 31 | 19 | 14 | 12 | 18 | 100 | 39 | 18 | 29 |
| 20 | GA 051173-S25 | 22 | 37 | 20 | 38 | 35 | 37 | 1 | 2 | 52 | 48 | 35 | 35 | 41 | 47 | 18 | 46 | 100 | 39 | 28 | 44 |
| 21 | GA 051173-S18 | 3 | 13 | 12 | 28 | 25 | 28 | 1 | 2 | 12 | 10 | 7 | 1 | 15 | 12 | 16 | 37 | 100 | 39 | 11 | 14 |
| 22 | GAMD08-27-E9-S13 | . | . | . | . | 15 | 20 | 5 | 38 | 9 | 8 | 12 | 11 | 38 | 45 | 9 | 6 | 92 | 34 | 13 | 22 |
| 23 | GAMD08-27-E9-S14 | . | . | . | . | 8 | 3 | 4 | 35 | 8 | 6 | 10 | 8 | 30 | 38 | 6 | 2 | 39 | 18 | 9 | 7 |
| 24 | GAMD08-27-E9-S15 | . | . | . | . | 5 | 1 | 3 | 26 | 12 | 10 | 13 | 13 | 36 | 44 | 10 | 11 | 19 | 1 | 12 | 17 |
| 25 | LA'04039C-14-8 | 1 | 7 | 5 | 15 | 8 | 3 | 1 | 2 | 19 | 26 | . | . | 25 | 32 | 10 | 11 | 45 | 21 | 10 | 10 |
| 26 | LA'04039C-10-6 | 1 | 7 | 4 | 11 | 15 | 20 | 5 | 38 | 16 | 19 | . | . | 15 | 11 | 9 | 6 | 61 | 28 | 10 | 10 |
| 27 | LA05102C-1-2 | 0 | 1 | 3 | 8 | 8 | 3 | 1 | 2 | 15 | 17 | . | . | 40 | 46 | 7 | 3 | 44 | 20 | 11 | 14 |
| 28 | LA05102C-8-8 | 0 | 1 | 1 | 3 | 8 | 3 | 2 | 14 | 12 | 10 | . | . | 19 | 15 | 3 | 1 | 25 | 4 | 7 | 2 |
| 29 | LA05079D-55 | 3 | 13 | 10 | 23 | 50 | 47 | 2 | 14 | 51 | 47 | . | . | 31 | 41 | 13 | 22 | 26 | 6 | 24 | 42 |
| 30 | LA05079F-P01 | 7 | 21 | 8 | 22 | 40 | 42 | 2 | 14 | 41 | 44 | 25 | 30 | 27 | 34 | 12 | 18 | 68 | 30 | 20 | 35 |
| 31 | LA05079F-P03 | 11 | 29 | 15 | 30 | 25 | 28 | 5 | 38 | 25 | 33 | 12 | 11 | 24 | 28 | 9 | 6 | 32 | 15 | 16 | 27 |
| 32 | LA05145D-12 | 12 | 31 | 27 | 42 | 40 | 42 | 2 | 14 | 25 | 33 | 24 | 28 | 29 | 37 | 7 | 3 | 82 | 32 | 21 | 38 |
| 33 | LA05145D-24 | 32 | 41 | 4 | 11 | 35 | 37 | 18 | 50 | 45 | 45 | 35 | 35 | 48 | 48 | 9 | 6 | 28 | 8 | 28 | 44 |
| 34 | MD03W61-11-2 | 5 | 17 | 10 | 23 | 15 | 20 | 3 | 26 | 24 | 31 | 60 | 41 | 31 | 40 | 8 | 5 | 21 | 2 | 20 | 35 |
| 35 | MD03W61-11-3 | 6 | 18 | 5 | 15 | 25 | 28 | 2 | 14 | 20 | 27 | 17 | 23 | 29 | 35 | 11 | 15 | 30 | 12 | 14 | 24 |
| 36 | UX0066-4-79 | 0 | 1 | 12 | 28 | 13 | 17 | 6 | 44 | 8 | 6 | 9 | 6 | 31 | 42 | 14 | 28 | 30 | 12 | 12 | 17 |
| 37 | MD08-22-1-6-4 | 0 | 1 | 0 | 1 | 5 | 1 | 2 | 14 | 6 | 2 | 7 | 1 | 19 | 19 | 9 | 6 | 24 | 3 | 6 | 1 |
| 38 | MD08-26-H2-23 | 0 | 1 | 3 | 8 | 10 | 13 | 2 | 14 | 14 | 16 | 16 | 22 | 21 | 22 | 13 | 22 | 34 | 17 | 10 | 10 |
| 39 | MH07-7483 | 17 | 34 | 1 | 3 | 45 | 46 | 6 | 44 | 35 | 40 | 18 | 24 | 35 | 43 | 17 | 43 | 32 | 15 | 21 | 38 |
| 40 | M09-9826# | 8 | 25 | 17 | 34 | 13 | 17 | 3 | 26 | 17 | 21 | 14 | 14 | 14 | 9 | 11 | 15 | 28 | 8 | 12 | 17 |
| 41 | NC08-23323 | 6 | 18 | 35 | 47 | 30 | 34 | 3 | 26 | 15 | 17 | 35 | 35 | 21 | 24 | 16 | 37 | 100 | 39 | 20 | 35 |
| 42 | NC08-23324 | 10 | 27 | 30 | 45 | 10 | 13 | 7 | 47 | 17 | 21 | 40 | 38 | 12 | 5 | 16 | 37 | 100 | 39 | 18 | 29 |
| 43 | NC09-22422 (Fhb1) | 1 | 7 | 1 | 3 | 13 | 17 | 1 | 2 | 12 | 10 | 23 | 27 | 13 | 7 | 15 | 33 | 46 | 23 | 10 | 10 |
| 44 | NC09-20986 (Fhb1) | 1 | 7 | 2 | 7 | 8 | 3 | 1 | 2 | 7 | 4 | 7 | 1 | 15 | 10 | 13 | 22 | 27 | 7 | 7 | 2 |
| 45 | NC8355-4 (Fhb1) | 2 | 11 | 10 | 23 | 8 | 3 | 2 | 14 | 18 | 24 | 8 | 5 | 19 | 18 | 10 | 11 | 28 | 8 | 9 | 7 |
| 46 | NC8452-2 | 7 | 21 | 4 | 11 | 20 | 25 | 6 | 44 | 7 | 4 | 14 | 14 | 25 | 33 | 11 | 15 | 29 | 11 | 12 | 17 |
| 47 | VA09W-52 | 20 | 36 | 18 | 36 | 35 | 37 | 2 | 14 | 21 | 29 | 15 | 20 | 23 | 26 | 13 | 22 | 25 | 4 | 18 | 29 |
| 48 | VA09W-73 | 18 | 35 | 15 | 30 | 25 | 28 | 5 | 38 | 35 | 40 | 40 | 38 | 30 | 39 | 14 | 28 | 54 | 27 | 23 | 41 |
| 49 | VA09W-75 | 15 | 33 | 15 | 30 | 8 | 3 | 2 | 14 | 25 | 33 | 10 | 8 | 21 | 23 | 16 | 37 | 31 | 14 | 14 | 24 |
| 50 | VA10W-42 | 3 | 13 | 7 | 18 | 30 | 34 | 5 | 38 | 18 | 24 | 14 | 14 | 19 | 20 | 10 | 11 | 39 | 18 | 13 | 22 |
| 51 | VA10W-140 | 22 | 37 | 15 | 30 | 40 | 42 | 3 | 26 | 24 | 31 | 22 | 26 | 14 | 8 | 17 | 43 | 100 | 39 | 19 | 34 |
| | Mean | 15 | | 13 | | 23 | | 4 | | 24 | | 22 | | 25 | | 13 | | 61 | | 17 | |
| | LSD (0.05) | 10 | | 8 | | 17 | | 3 | | . | | 19 | | 18 | | 5 | | . | | 19 | |
| | CV% | . | | . | | 36.0 | | 41.2 | | . | | 44.0 | | 36.0 | | . | | . | | 56.5 | |

[1]DATA BY INDIVIDUAL ISOLATES ON FOLLOWING PAGES

## Severity by Individual Isolates, Szeged, Hungary

| | Cultivar/ Designation | *F. culm.* Isol Fc 12375 | *F. gram.* Isol 12377/ 1 | *F. gram.* Isol 13.05 | *F. gram.* Isol Fg12377/2 | Mean | Rank |
|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 10 | 17 | 8 | 14 | 12 | *18* |
| 2 | COKER 9835 | 40 | 25 | 19 | 15 | 25 | *51* |
| 3 | BESS | 26 | 18 | 12 | 13 | 17 | *43* |
| 4 | JAMESTOWN | 21 | 19 | 11 | 15 | 16 | *37* |
| 5 | NC09-21916 | 18 | 14 | 11 | 14 | 14 | *28* |
| 6 | VA08W-613 | 20 | 18 | 9 | 9 | 14 | *28* |
| 7 | M08-8036# | 14 | 16 | 15 | 11 | 14 | *28* |
| 8 | IL02-18228 | 17 | 17 | 14 | 12 | 15 | *33* |
| 9 | ARS07-1214 | 25 | 16 | 10 | 14 | 16 | *37* |
| 10 | ARS09-173 | 7 | 13 | 15 | 13 | 12 | *18* |
| 11 | ARS09-367 | 33 | 23 | 12 | 17 | 21 | *50* |
| 12 | ARS09-446 | 27 | 12 | 5 | 8 | 13 | *22* |
| 13 | ARS09-513 | 23 | 22 | 13 | 17 | 19 | *47* |
| 14 | ARS09-595 | 28 | 19 | 15 | 14 | 19 | *47* |
| 15 | ARS09-643 | 30 | 21 | 14 | 11 | 19 | *47* |
| 16 | ARS09-724 | 21 | 16 | 13 | 11 | 15 | *33* |
| 17 | GA 051173W-S11 | 23 | 18 | 9 | 10 | 15 | *33* |
| 18 | GA 051207-S19 | 25 | 13 | 5 | 9 | 13 | *22* |
| 19 | GA 051207-S21 | 22 | 11 | 6 | 8 | 12 | *18* |
| 20 | GA 051173-S25 | 28 | 16 | 18 | 10 | 18 | *46* |
| 21 | GA 051173-S18 | 26 | 15 | 12 | 12 | 16 | *37* |
| 22 | GAMD08-27-E9-S13 | 13 | 9 | 5 | 8 | 9 | *6* |
| 23 | GAMD08-27-E9-S14 | 7 | 7 | 5 | 5 | 6 | *2* |
| 24 | GAMD08-27-E9-S15 | 13 | 9 | 8 | 8 | 10 | *11* |
| 25 | LA'04039C-14-8 | 13 | 13 | 6 | 6 | 10 | *11* |
| 26 | LA'04039C-10-6 | 14 | 9 | 5 | 8 | 9 | *6* |
| 27 | LA05102C-1-2 | 11 | 7 | 4 | 6 | 7 | *3* |
| 28 | LA05102C-8-8 | 5 | 3 | 3 | 3 | 3 | *1* |
| 29 | LA05079D-55 | 24 | 13 | 7 | 10 | 13 | *22* |
| 30 | LA05079F-P01 | 25 | 10 | 7 | 6 | 12 | *18* |
| 31 | LA05079F-P03 | 16 | 9 | 4 | 8 | 9 | *6* |
| 32 | LA05145D-12 | 5 | 14 | 4 | 6 | 7 | *3* |
| 33 | LA05145D-24 | 19 | 10 | 4 | 2 | 9 | *6* |
| 34 | MD03W61-11-2 | 12 | 8 | 8 | 6 | 8 | *5* |
| 35 | MD03W61-11-3 | 18 | 11 | 9 | 6 | 11 | *15* |
| 36 | UX0066-4-79 | 17 | 15 | 13 | 11 | 14 | *28* |
| 37 | MD08-22-1-6-4 | 10 | 13 | 8 | 6 | 9 | *6* |
| 38 | MD08-26-H2-23 | 16 | 17 | 9 | 10 | 13 | *22* |
| 39 | MH07-7483 | 26 | 18 | 11 | 12 | 17 | *43* |
| 40 | M09-9826# | 18 | 13 | 7 | 7 | 11 | *15* |
| 41 | NC08-23323 | 25 | 17 | 10 | 13 | 16 | *37* |
| 42 | NC08-23324 | 21 | 21 | 12 | 12 | 16 | *37* |
| 43 | NC09-22422 (Fhb1) | 21 | 15 | 15 | 8 | 15 | *33* |
| 44 | NC09-20986 (Fhb1) | 14 | 16 | 10 | 12 | 13 | *22* |
| 45 | NC8355-4 (Fhb1) | 5 | 12 | 12 | 9 | 10 | *11* |
| 46 | NC8452-2 | 21 | 8 | 6 | 8 | 11 | *15* |
| 47 | VA09W-52 | 23 | 12 | 10 | 8 | 13 | *22* |
| 48 | VA09W-73 | 26 | 11 | 8 | 9 | 14 | *28* |
| 49 | VA09W-75 | 21 | 16 | 12 | 16 | 16 | *37* |
| 50 | VA10W-42 | 13 | 11 | 7 | 7 | 10 | *11* |
| 51 | VA10W-140 | 19 | 15 | 16 | 17 | 17 | *43* |
| | Mean | 19 | 14 | 10 | 10 | 13 | |
| | LSD(0.05) | . | . | . | . | 5 | |

## Head Severity Expressed as Area Under the Disease Progress Curve (AUDPC) 20 Days Post Inoculation Fundulea, Romania.

| | Cultivar/ Designation | *F. gram. Isol 96* *15-ADON* | *F. culm. Isol 46* *3-ADON* | Mean | *Rank* |
|---|---|---|---|---|---|
| 1 | ERNIE | 420 | 394 | 407 | *24* |
| 2 | COKER 9835 | 630 | 633 | 631 | *32* |
| 3 | BESS | 415 | 426 | 420 | *26* |
| 4 | JAMESTOWN | 719 | 659 | 689 | *37* |
| 5 | NC09-21916 | 767 | 806 | 787 | *49* |
| 6 | VA08W-613 | 317 | 445 | 381 | *23* |
| 7 | M08-8036# | 718 | 730 | 724 | *40* |
| 8 | IL02-18228 | 705 | 714 | 709 | *39* |
| 9 | ARS07-1214 | 480 | 614 | 547 | *29* |
| 10 | ARS09-173 | 728 | 821 | 775 | *47* |
| 11 | ARS09-367 | 407 | 420 | 413 | *25* |
| 12 | ARS09-446 | 741 | 756 | 749 | *44* |
| 13 | ARS09-513 | 635 | 695 | 665 | *34* |
| 14 | ARS09-595 | 758 | 837 | 798 | *51* |
| 15 | ARS09-643 | 714 | 867 | 790 | *50* |
| 16 | ARS09-724 | 792 | 706 | 749 | *44* |
| 17 | GA 051173W-S11 | 622 | 744 | 683 | *35* |
| 18 | GA 051207-S19 | 727 | 787 | 757 | *46* |
| 19 | GA 051207-S21 | 789 | 776 | 783 | *48* |
| 20 | GA 051173-S25 | 744 | 727 | 736 | *42* |
| 21 | GA 051173-S18 | 695 | 671 | 683 | *35* |
| 22 | GAMD08-27-E9-S13 | 537 | 600 | 569 | *31* |
| 23 | GAMD08-27-E9-S14 | 304 | 346 | 325 | *17* |
| 24 | GAMD08-27-E9-S15 | 199 | 150 | 174 | *1* |
| 25 | LA'04039C-14-8 | 243 | 464 | 354 | *19* |
| 26 | LA'04039C-10-6 | 273 | 700 | 487 | *28* |
| 27 | LA05102C-1-2 | 354 | 404 | 379 | *22* |
| 28 | LA05102C-8-8 | 261 | 347 | 304 | *15* |
| 29 | LA05079D-55 | 306 | 239 | 273 | *6* |
| 30 | LA05079F-P01 | 572 | 549 | 561 | *30* |
| 31 | LA05079F-P03 | 354 | 357 | 355 | *20* |
| 32 | LA05145D-12 | 732 | 563 | 647 | *33* |
| 33 | LA05145D-24 | 278 | 307 | 293 | *12* |
| 34 | MD03W61-11-2(11PW#108) | 200 | 298 | 249 | *4* |
| 35 | MD03W61-11-3(11PW#109) | 330 | 268 | 299 | *13* |
| 36 | UX0066-4-79(11PW#183) | 290 | 264 | 277 | *9* |
| 37 | MD08-22-1-6-4(11PW#189) | 253 | 174 | 214 | *2* |
| 38 | MD08-26-H2-23(11CVM-3) | 282 | 277 | 279 | *10* |
| 39 | MH07-7483 | 255 | 365 | 310 | *16* |
| 40 | M09-9826# | 235 | 312 | 273 | *6* |
| 41 | NC08-23323 | 718 | 738 | 728 | *41* |
| 42 | NC08-23324 | 703 | 700 | 701 | *38* |
| 43 | NC09-22422 (Fhb1) | 381 | 359 | 370 | *21* |
| 44 | NC09-20986 (Fhb1) | 205 | 241 | 223 | *3* |
| 45 | NC8355-4 (Fhb1) | 267 | 236 | 252 | *5* |
| 46 | NC8452-2 | 289 | 308 | 299 | *13* |
| 47 | VA09W-52 | 243 | 305 | 274 | *8* |
| 48 | VA09W-73 | 506 | 358 | 432 | *27* |
| 49 | VA09W-75 | 267 | 309 | 288 | *11* |
| 50 | VA10W-42 | 426 | 230 | 328 | *18* |
| 51 | VA10W-140 | 714 | 759 | 737 | *43* |
| | **Mean** | 480 | 505 | 493 | |
| | **LSD (0.05)** | . | . | 52 | |

# FHB Index (1-100)

| | CULTIVAR/ DESIGNATION | S'BURY MD | RANK | B'BURG VA | RANK | LEX'TON KY | RANK | K'STON NC | RANK | COL'BIA MO | RANK | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 1 | 1 | 0 | 1 | 3 | 2 | 5 | 18 | 12 | 18 | 4 | 5 |
| 2 | COKER 9835 | 43 | 49 | 5 | 48 | 35 | 49 | 54 | 43 | 36 | 44 | 35 | 49 |
| 3 | BESS | 3 | 14 | 0 | 1 | 2 | 1 | 2 | 8 | 1 | 1 | 2 | 1 |
| 4 | JAMESTOWN | 2 | 9 | 1 | 21 | 8 | 17 | 6 | 23 | 19 | 28 | 7 | 17 |
| 5 | NC09-21916 | 4 | 19 | 0 | 1 | 10 | 22 | 4 | 13 | 9 | 9 | 5 | 8 |
| 6 | VA08W-613 | 4 | 19 | 0 | 1 | 4 | 5 | 4 | 13 | 9 | 9 | 4 | 5 |
| 7 | M08-8036# | 16 | 40 | 1 | 21 | 9 | 20 | 1 | 3 | 9 | 9 | 7 | 17 |
| 8 | IL02-18228 | 2 | 9 | 0 | 1 | 3 | 2 | 0 | 1 | 4 | 2 | 2 | 1 |
| 9 | ARS07-1214 | 52 | 51 | 20 | 51 | 58 | 51 | 17 | 35 | 77 | 51 | 45 | 50 |
| 10 | ARS09-173 | 5 | 24 | 1 | 21 | 3 | 2 | 31 | 41 | 21 | 31 | 12 | 35 |
| 11 | ARS09-367 | 46 | 50 | 10 | 49 | 51 | 50 | . | . | 76 | 50 | 45 | 50 |
| 12 | ARS09-446 | 20 | 42 | 1 | 21 | 14 | 33 | . | . | 53 | 49 | 22 | 45 |
| 13 | ARS09-513 | 14 | 35 | 0 | 1 | 13 | 30 | 39 | 42 | 22 | 32 | 18 | 41 |
| 14 | ARS09-595 | 22 | 43 | 1 | 21 | 13 | 30 | 7 | 24 | 47 | 46 | 18 | 41 |
| 15 | ARS09-643 | 14 | 35 | 0 | 1 | 14 | 33 | . | . | 28 | 39 | 14 | 39 |
| 16 | ARS09-724 | 9 | 30 | 1 | 21 | 11 | 25 | 13 | 33 | 22 | 32 | 11 | 33 |
| 17 | GA 051173W-S11 | 13 | 34 | 0 | 1 | 7 | 11 | 10 | 31 | 13 | 19 | 9 | 25 |
| 18 | GA 051207-S19 | 6 | 26 | 2 | 37 | 12 | 27 | 8 | 28 | 32 | 41 | 12 | 35 |
| 19 | GA 051207-S21 | 7 | 28 | 1 | 21 | 10 | 22 | 7 | 24 | 27 | 38 | 10 | 28 |
| 20 | GA 051173-S25 | 17 | 41 | 0 | 1 | 27 | 47 | 18 | 38 | 50 | 48 | 22 | 45 |
| 21 | GA 051173-S18 | 5 | 24 | 0 | 1 | 8 | 17 | 1 | 3 | 9 | 9 | 5 | 8 |
| 22 | GAMD08-27-E9-S13 | 3 | 14 | 2 | 37 | 25 | 45 | 5 | 18 | 7 | 8 | 8 | 21 |
| 23 | GAMD08-27-E9-S14 | 4 | 19 | 2 | 37 | 15 | 36 | 3 | 10 | 6 | 6 | 6 | 13 |
| 24 | GAMD08-27-E9-S15 | 1 | 1 | 1 | 21 | 23 | 44 | 5 | 18 | 10 | 14 | 8 | 21 |
| 25 | LA'04039C-14-8 | 1 | 1 | 0 | 1 | 15 | 36 | . | . | 18 | 27 | 8 | 21 |
| 26 | LA'04039C-10-6 | 4 | 19 | 3 | 43 | 5 | 7 | . | . | 13 | 19 | 6 | 13 |
| 27 | LA05102C-1-2 | 1 | 1 | 0 | 1 | 20 | 43 | . | . | 11 | 16 | 7 | 17 |
| 28 | LA05102C-8-8 | 1 | 1 | 0 | 1 | 7 | 11 | . | . | 9 | 9 | 4 | 5 |
| 29 | LA05079D-55 | 38 | 48 | 0 | 1 | 17 | 39 | . | . | 48 | 47 | 25 | 48 |
| 30 | LA05079F-P01 | 28 | 45 | 0 | 1 | 11 | 25 | 15 | 34 | 34 | 43 | 18 | 41 |
| 31 | LA05079F-P03 | 6 | 26 | 2 | 37 | 13 | 30 | 4 | 13 | 22 | 32 | 10 | 28 |
| 32 | LA05145D-12 | 30 | 46 | 1 | 21 | 17 | 39 | 11 | 32 | 22 | 32 | 16 | 40 |
| 33 | LA05145D-24 | 14 | 35 | 12 | 50 | 31 | 48 | 20 | 39 | 39 | 45 | 23 | 47 |
| 34 | MD03W61-11-2 | 3 | 14 | 1 | 21 | 19 | 42 | 21 | 40 | 23 | 37 | 13 | 37 |
| 35 | MD03W61-11-3 | 12 | 33 | 0 | 1 | 17 | 39 | 5 | 18 | 16 | 25 | 10 | 28 |
| 36 | UX0066-4-79 | 3 | 14 | 3 | 43 | 16 | 38 | 2 | 8 | 6 | 6 | 6 | 13 |
| 37 | MD08-22-1-6-4 | 1 | 1 | 1 | 21 | 7 | 11 | 0 | 1 | 4 | 2 | 2 | 1 |
| 38 | MD08-26-H2-23 | 3 | 14 | 0 | 1 | 7 | 11 | 4 | 13 | 11 | 16 | 5 | 8 |
| 39 | MH07-7483 | 34 | 47 | 3 | 43 | 25 | 45 | 4 | 13 | 30 | 40 | 19 | 44 |
| 40 | M09-9826# | 2 | 9 | 1 | 21 | 6 | 10 | 7 | 24 | 13 | 19 | 6 | 13 |
| 41 | NC08-23323 | 9 | 30 | 1 | 21 | 7 | 11 | 17 | 35 | 13 | 19 | 10 | 28 |
| 42 | NC08-23324 | 4 | 19 | 4 | 47 | 7 | 11 | 17 | 35 | 14 | 24 | 9 | 25 |
| 43 | NC09-22422 (Fhb1) | 2 | 9 | 0 | 1 | 5 | 7 | 9 | 30 | 10 | 14 | 5 | 8 |
| 44 | NC09-20986 (Fhb1) | 2 | 9 | 0 | 1 | 5 | 7 | 1 | 3 | 5 | 4 | 3 | 4 |
| 45 | NC8355-4 (Fhb1) | 1 | 1 | 0 | 1 | 8 | 17 | 1 | 3 | 13 | 19 | 5 | 8 |
| 46 | NC8452-2 | 8 | 29 | 3 | 43 | 14 | 33 | 3 | 10 | 5 | 4 | 7 | 17 |
| 47 | VA09W-52 | 14 | 35 | 1 | 21 | 9 | 20 | 7 | 24 | 19 | 28 | 10 | 28 |
| 48 | VA09W-73 | 9 | 30 | 2 | 37 | 12 | 27 | 8 | 28 | 34 | 42 | 13 | 37 |
| 49 | VA09W-75 | 1 | 1 | 1 | 21 | 12 | 27 | 3 | 10 | 22 | 32 | 8 | 21 |
| 50 | VA10W-42 | 14 | 35 | 2 | 37 | 10 | 22 | 1 | 3 | 16 | 25 | 9 | 25 |
| 51 | VA10W-140 | 26 | 44 | 1 | 21 | 4 | 5 | 5 | 18 | 20 | 30 | 11 | 33 |
| | Mean | 11 | | 2 | | 25 | | 9 | | 21 | | 12 | |
| | LSD (0.05) | 14 | | 2 | | 18 | | 11 | | . | | 16 | |
| | CV% | 63.1 | | 57.0 | | 34.9 | | 61.0 | | . | | 71.4 | |

# Percent Fusarium Damaged Kernels

| | Cultivar/ Designation | F'VILLE AR | RANK | N'PORT AR | RANK | K'STON NC | RANK | COL'BIA MO | RANK | S'BURY MD | RANK | SZEGED HUN | RANK | LEX'TON KY | RANK | MEAN All LOCS | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 1 | 2 | 11 | 23 | 2 | 4 | 14 | 8 | 11 | 31 | 0 | 1 | 6 | 22 | 7 | 12 |
| 2 | COKER 9835 | 32 | 45 | 67 | 48 | 23 | 43 | 59 | 48 | 23 | 47 | 27 | 49 | 21 | 50 | 36 | 49 |
| 3 | BESS | 2 | 6 | 4 | 7 | 3 | 10 | 9 | 3 | 8 | 20 | 0 | 1 | 4 | 9 | 4 | 2 |
| 4 | JAMESTOWN | 2 | 6 | 8 | 14 | 5 | 23 | 16 | 11 | 5 | 6 | 0 | 1 | 5 | 16 | 6 | 9 |
| 5 | NC09-21916 | 3 | 12 | 5 | 8 | 4 | 17 | 12 | 4 | 5 | 6 | 0 | 1 | 4 | 9 | 5 | 5 |
| 6 | VA08W-613 | 9 | 32 | 9 | 18 | 2 | 4 | 16 | 11 | 6 | 11 | 0 | 1 | 3 | 3 | 6 | 9 |
| 7 | M08-8036# | 3 | 12 | 2 | 5 | 1 | 1 | 6 | 2 | 16 | 43 | 0 | 1 | 8 | 32 | 5 | 5 |
| 8 | IL02-18228 | 3 | 12 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 4 | 0 | 1 | 3 | 3 | 2 | 1 |
| 9 | ARS07-1214 | 50 | 48 | 50 | 46 | 32 | 44 | 51 | 44 | 35 | 50 | 35 | 50 | 17 | 47 | 38 | 50 |
| 10 | ARS09-173 | 7 | 30 | 17 | 34 | 11 | 36 | 34 | 35 | 5 | 6 | 0 | 1 | 5 | 16 | 11 | 29 |
| 11 | ARS09-367 | 45 | 46 | 60 | 47 | 39 | 45 | 59 | 48 | 50 | 51 | 42 | 51 | 19 | 49 | 45 | 51 |
| 12 | ARS09-446 | 14 | 39 | 20 | 40 | . | . | 68 | 50 | 10 | 27 | 7 | 42 | 12 | 42 | 21 | 45 |
| 13 | ARS09-513 | 29 | 44 | 28 | 44 | 14 | 39 | 72 | 51 | 16 | 43 | 0 | 1 | 10 | 40 | 24 | 47 |
| 14 | ARS09-595 | 28 | 43 | 27 | 43 | 3 | 10 | 56 | 47 | 4 | 4 | 2 | 30 | 10 | 40 | 18 | 43 |
| 15 | ARS09-643 | 4 | 21 | 18 | 3 | . | . | 48 | 43 | 10 | 27 | 5 | 37 | 7 | 30 | 15 | 40 |
| 16 | ARS09-724 | 4 | 21 | 10 | 20 | 4 | 17 | 16 | 11 | 10 | 27 | 0 | 1 | 8 | 32 | 7 | 12 |
| 17 | GA 051173W-S11 | 9 | 32 | 6 | 10 | 18 | 40 | 24 | 22 | 13 | 34 | 7 | 42 | 5 | 16 | 12 | 33 |
| 18 | GA 051207-S19 | 2 | 6 | 12 | 26 | 8 | 30 | 52 | 46 | 7 | 17 | 4 | 34 | 6 | 22 | 13 | 35 |
| 19 | GA 051207-S21 | 3 | 12 | 12 | 26 | 8 | 30 | 15 | 9 | 6 | 11 | 4 | 34 | 4 | 9 | 7 | 12 |
| 20 | GA 051173-S25 | 22 | 41 | 22 | 42 | 5 | 23 | 47 | 41 | 20 | 46 | 24 | 48 | 22 | 51 | 23 | 46 |
| 21 | GA 051173-S18 | 2 | 6 | 5 | 8 | 3 | 10 | 41 | 38 | 10 | 27 | 2 | 30 | 5 | 16 | 10 | 25 |
| 22 | GAMD08-27-E9-S13 | . | . | . | . | 3 | 10 | 32 | 32 | 8 | 20 | 0 | 1 | 6 | 22 | 10 | 25 |
| 23 | GAMD08-27-E9-S14 | . | . | . | . | 8 | 30 | 16 | 11 | 14 | 38 | 0 | 1 | 4 | 9 | 8 | 18 |
| 24 | GAMD08-27-E9-S15 | . | . | . | . | 6 | 26 | 29 | 27 | 9 | 24 | 0 | 1 | 3 | 3 | 9 | 21 |
| 25 | LA'04039C-14-8 | 1 | 4 | 6 | 10 | . | . | 15 | 9 | 6 | 11 | 0 | 1 | 7 | 30 | 5 | 5 |
| 26 | LA'04039C-10-6 | 1 | 3 | 8 | 14 | . | . | 28 | 26 | 5 | 6 | 0 | 1 | 6 | 22 | 7 | 12 |
| 27 | LA05102C-1-2 | 1 | 1 | 1 | 1 | . | . | 24 | 22 | 3 | 2 | 0 | 1 | 3 | 3 | 4 | 2 |
| 28 | LA05102C-8-8 | 1 | 4 | 1 | 1 | . | . | 23 | 21 | 2 | 1 | 0 | 1 | 4 | 9 | 4 | 2 |
| 29 | LA05079D-55 | 3 | 12 | 16 | 31 | 3 | 10 | 51 | 44 | 13 | 34 | 11 | 44 | 12 | 42 | 16 | 42 |
| 30 | LA05079F-P01 | 2 | 6 | 12 | 26 | 13 | 38 | 47 | 41 | 23 | 47 | 4 | 34 | 8 | 32 | 15 | 40 |
| 31 | LA05079F-P03 | 9 | 32 | 17 | 34 | 12 | 37 | 29 | 27 | 11 | 31 | 6 | 41 | 13 | 44 | 14 | 38 |
| 32 | LA05145D-12 | 7 | 30 | 18 | 37 | 6 | 26 | 41 | 38 | 15 | 40 | 3 | 32 | 9 | 37 | 14 | 38 |
| 33 | LA05145D-24 | 47 | 47 | 40 | 45 | 19 | 42 | 32 | 32 | 13 | 34 | 5 | 37 | 17 | 47 | 25 | 48 |
| 34 | MD03W61-11-2 | 6 | 28 | 11 | 23 | 9 | 33 | 38 | 36 | 8 | 20 | 0 | 1 | 14 | 45 | 12 | 33 |
| 35 | MD03W61-11-3 | 2 | 6 | 8 | 14 | 5 | 23 | 21 | 19 | 8 | 20 | 0 | 1 | 8 | 32 | 8 | 18 |
| 36 | UX0066-4-79 | 5 | 26 | 10 | 20 | 2 | 4 | 26 | 24 | 15 | 40 | 0 | 1 | 6 | 22 | 9 | 21 |
| 37 | MD08-22-1-6-4 | 3 | 12 | 1 | 1 | 1 | 1 | 39 | 37 | 6 | 11 | 0 | 1 | 1 | 1 | 7 | 12 |
| 38 | MD08-26-H2-23 | 5 | 26 | 3 | 6 | 7 | 29 | 19 | 18 | 7 | 17 | 1 | 27 | 2 | 2 | 6 | 9 |
| 39 | MH07-7483 | 22 | 41 | 19 | 39 | 4 | 17 | 29 | 27 | 29 | 49 | 18 | 46 | 16 | 46 | 20 | 44 |
| 40 | M09-9826# | 4 | 21 | 20 | 40 | 10 | 35 | 45 | 40 | 6 | 11 | 0 | 1 | 6 | 22 | 13 | 35 |
| 41 | NC08-23323 | 3 | 12 | 12 | 26 | 3 | 10 | 17 | 15 | 7 | 17 | 3 | 32 | 9 | 37 | 8 | 18 |
| 42 | NC08-23324 | 3 | 12 | 16 | 31 | 9 | 33 | 27 | 25 | 13 | 34 | 5 | 37 | 5 | 16 | 11 | 29 |
| 43 | NC09-22422 (Fhb1) | 12 | 37 | 8 | 14 | 4 | 17 | 32 | 32 | 6 | 11 | 0 | 1 | 3 | 3 | 9 | 21 |
| 44 | NC09-20986 (Fhb1) | 4 | 21 | 9 | 18 | 2 | 4 | 21 | 19 | 9 | 24 | 0 | 1 | 4 | 9 | 7 | 12 |
| 45 | NC8355-4 (Fhb1) | 11 | 35 | 13 | 30 | 2 | 4 | 31 | 31 | 9 | 24 | 0 | 1 | 5 | 16 | 10 | 25 |
| 46 | NC8452-2 | 21 | 40 | 6 | 10 | 3 | 10 | 13 | 7 | 18 | 45 | 5 | 37 | 8 | 32 | 11 | 29 |
| 47 | VA09W-52 | 12 | 37 | 17 | 34 | 18 | 40 | 18 | 16 | 5 | 6 | 17 | 45 | 6 | 22 | 13 | 35 |
| 48 | VA09W-73 | 11 | 35 | 11 | 23 | 4 | 17 | 12 | 4 | 14 | 38 | 20 | 47 | 6 | 22 | 11 | 29 |
| 49 | VA09W-75 | 3 | 12 | 6 | 10 | 4 | 17 | 12 | 4 | 3 | 2 | 1 | 27 | 3 | 3 | 5 | 5 |
| 50 | VA10W-42 | 4 | 21 | 10 | 20 | 6 | 26 | 18 | 16 | 12 | 33 | 0 | 1 | 9 | 37 | 9 | 21 |
| 51 | VA10W-140 | 6 | 28 | 16 | 31 | 2 | 4 | 30 | 30 | 15 | 40 | 1 | 27 | 4 | 9 | 10 | 25 |
| | Mean | 10 | | 15 | | 8 | | 30 | | 11 | | 5 | | 8 | | 12 | |
| | LSD (0.05) | 8 | | 9 | | 8 | | . | | 14 | | . | | 8 | | 15 | |
| | CV% | . | | . | | 52.8 | | . | | 59.4 | | . | | 49.2 | | 59.9 | |

# Incidence, Severity, Kernel Rating (ISK) Index
# (0.3 * Incidence + 0.3 * Severity + 0.4 * Fusarium Damaged Kernels)

| | CULTIVAR/ DESIGNATION | K'STON NC | RANK | COL'BIA MO | RANK | S'BURY MD | RANK | LEX'TON KY | RANK | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 14 | 14 | 33 | 9 | 11 | 10 | 14 | 3 | 15 | 3 |
| 2 | COKER 9835 | 54 | 43 | 48 | 36 | 50 | 49 | 44 | 49 | 49 | 49 |
| 3 | BESS | 10 | 9 | 12 | 1 | 14 | 19 | 11 | 1 | 12 | 1 |
| 4 | JAMESTOWN | 18 | 21 | 39 | 18 | 10 | 7 | 20 | 15 | 22 | 14 |
| 5 | NC09-21916 | 17 | 18 | 31 | 8 | 13 | 15 | 22 | 20 | 21 | 10 |
| 6 | VA08W-613 | 17 | 18 | 35 | 12 | 16 | 21 | 16 | 6 | 21 | 10 |
| 7 | M08-8036# | 8 | 4 | 25 | 3 | 32 | 42 | 23 | 21 | 22 | 14 |
| 8 | IL02-18228 | 4 | 1 | 18 | 2 | 11 | 10 | 13 | 2 | 12 | 1 |
| 9 | ARS07-1214 | 38 | 40 | 70 | 48 | 57 | 50 | 53 | 51 | 55 | 50 |
| 10 | ARS09-173 | 38 | 40 | 45 | 33 | 14 | 19 | 14 | 3 | 28 | 35 |
| 11 | ARS09-367 | . | . | 75 | 50 | 59 | 51 | 50 | 50 | 59 | 51 |
| 12 | ARS09-446 | . | . | 76 | 51 | 31 | 41 | 29 | 37 | 43 | 46 |
| 13 | ARS09-513 | 43 | 42 | 69 | 46 | 29 | 39 | 30 | 39 | 43 | 46 |
| 14 | ARS09-595 | 21 | 28 | 71 | 49 | 30 | 40 | 28 | 34 | 37 | 41 |
| 15 | ARS09-643 | . | . | 60 | 45 | 27 | 36 | 27 | 31 | 35 | 39 |
| 16 | ARS09-724 | 23 | 31 | 39 | 18 | 21 | 29 | 24 | 24 | 27 | 27 |
| 17 | GA 051173W-S11 | 25 | 32 | 37 | 14 | 26 | 35 | 18 | 11 | 27 | 27 |
| 18 | GA 051207-S19 | 19 | 24 | 54 | 42 | 18 | 23 | 25 | 27 | 29 | 36 |
| 19 | GA 051207-S21 | 20 | 25 | 44 | 30 | 19 | 25 | 24 | 24 | 27 | 27 |
| 20 | GA 051173-S25 | 28 | 35 | 57 | 43 | 34 | 43 | 41 | 47 | 40 | 45 |
| 21 | GA 051173-S18 | 9 | 6 | 44 | 30 | 18 | 23 | 21 | 17 | 23 | 18 |
| 22 | GAMD08-27-E9-S13 | 18 | 21 | 40 | 24 | 12 | 13 | 33 | 44 | 26 | 26 |
| 23 | GAMD08-27-E9-S14 | 15 | 16 | 28 | 6 | 20 | 26 | 26 | 29 | 22 | 14 |
| 24 | GAMD08-27-E9-S15 | 17 | 18 | 37 | 14 | 11 | 10 | 31 | 42 | 24 | 22 |
| 25 | LA'04039C-14-8 | . | . | 39 | 18 | 9 | 6 | 28 | 34 | 23 | 18 |
| 26 | LA'04039C-10-6 | . | . | 43 | 29 | 13 | 15 | 16 | 6 | 21 | 10 |
| 27 | LA05102C-1-2 | . | . | 35 | 12 | 6 | 1 | 28 | 34 | 21 | 10 |
| 28 | LA05102C-8-8 | . | . | 38 | 17 | 7 | 2 | 19 | 14 | 19 | 6 |
| 29 | LA05079D-55 | . | . | 69 | 46 | 43 | 47 | 31 | 42 | 45 | 48 |
| 30 | LA05079F-P01 | 30 | 37 | 58 | 44 | 41 | 46 | 23 | 21 | 38 | 43 |
| 31 | LA05079F-P03 | 18 | 21 | 42 | 28 | 20 | 26 | 29 | 37 | 27 | 27 |
| 32 | LA05145D-12 | 22 | 29 | 52 | 41 | 40 | 45 | 30 | 39 | 36 | 40 |
| 33 | LA05145D-24 | 35 | 39 | 49 | 38 | 28 | 38 | 41 | 47 | 38 | 43 |
| 34 | MD03W61-11-2 | 32 | 38 | 49 | 38 | 12 | 13 | 33 | 44 | 32 | 38 |
| 35 | MD03W61-11-3 | 16 | 17 | 39 | 18 | 24 | 31 | 30 | 39 | 27 | 27 |
| 36 | UX0066-4-79 | 9 | 6 | 25 | 3 | 16 | 21 | 27 | 31 | 19 | 6 |
| 37 | MD08-22-1-6-4 | 4 | 1 | 39 | 18 | 7 | 2 | 17 | 8 | 17 | 5 |
| 38 | MD08-26-H2-23 | 14 | 14 | 34 | 10 | 13 | 15 | 18 | 11 | 20 | 9 |
| 39 | MH07-7483 | 13 | 11 | 48 | 36 | 48 | 48 | 38 | 46 | 37 | 41 |
| 40 | M09-9826# | 22 | 29 | 49 | 38 | 10 | 7 | 18 | 11 | 25 | 23 |
| 41 | NC08-23323 | 26 | 33 | 34 | 10 | 21 | 29 | 21 | 17 | 25 | 23 |
| 42 | NC08-23324 | 28 | 35 | 37 | 14 | 20 | 26 | 24 | 24 | 27 | 27 |
| 43 | NC09-22422 (Fhb1) | 20 | 25 | 44 | 30 | 10 | 7 | 17 | 8 | 23 | 18 |
| 44 | NC09-20986 (Fhb1) | 7 | 3 | 26 | 5 | 13 | 15 | 17 | 8 | 16 | 4 |
| 45 | NC8355-4 (Fhb1) | 8 | 4 | 40 | 24 | 8 | 4 | 20 | 15 | 19 | 6 |
| 46 | NC8452-2 | 11 | 10 | 30 | 7 | 25 | 34 | 27 | 31 | 23 | 18 |
| 47 | VA09W-52 | 26 | 33 | 46 | 35 | 24 | 31 | 21 | 17 | 29 | 36 |
| 48 | VA09W-73 | 20 | 25 | 40 | 24 | 24 | 31 | 23 | 21 | 27 | 27 |
| 49 | VA09W-75 | 13 | 11 | 41 | 27 | 8 | 4 | 26 | 29 | 22 | 14 |
| 50 | VA10W-42 | 9 | 6 | 39 | 18 | 27 | 36 | 25 | 27 | 25 | 23 |
| 51 | VA10W-140 | 13 | 11 | 45 | 33 | 37 | 44 | 14 | 3 | 27 | 27 |
| | Mean | 20 | | 43 | | 22 | | 25 | | 28 | |
| | LSD (0.05) | . | | . | | 14 | | . | | 15 | |
| | CV% | . | | . | | 32.1 | | . | | 27.6 | |

# SEED CHARACTERISTICS and GRAIN YIELD

| | Cultivar/ Designation | Grain Yield (gr) F'VILLE AR | Grain Yield (gr) NEWPORT AR | Grain Yield (gr) MEAN ALL LOC. | RANK | Seed Weight Inocul / Control % FUND"LEA ROM | RANK | Grain Weight gr. S'BURY MD |
|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 487 | 299 | 393 | 34 | 36 | 41 | 4.7 |
| 2 | COKER 9835 | 230 | 87 | 158 | 48 | 14 | 51 | 3.0 |
| 3 | BESS | 591 | 379 | 485 | 21 | 78 | 16 | 3.4 |
| 4 | JAMESTOWN | 612 | 491 | 552 | 10 | 54 | 31 | 4.0 |
| 5 | NC09-21916 | 431 | 428 | 430 | 31 | 42 | 39 | 3.2 |
| 6 | VA08W-613 | 569 | 442 | 505 | 19 | 68 | 22 | 3.9 |
| 7 | M08-8036# | 613 | 370 | 492 | 20 | 57 | 28 | 3.0 |
| 8 | IL02-18228 | 414 | 459 | 437 | 30 | 50 | 33 | 3.5 |
| 9 | ARS07-1214 | 315 | 114 | 214 | 47 | 57 | 28 | 2.5 |
| 10 | ARS09-173 | 458 | 476 | 467 | 24 | 33 | 45 | 3.7 |
| 11 | ARS09-367 | 322 | 114 | 218 | 46 | 75 | 18 | 2.9 |
| 12 | ARS09-446 | 507 | 320 | 414 | 33 | 31 | 49 | 4.5 |
| 13 | ARS09-513 | 284 | 213 | 248 | 45 | 32 | 47 | 3.4 |
| 14 | ARS09-595 | 353 | 336 | 345 | 40 | 33 | 45 | 3.6 |
| 15 | ARS09-643 | 631 | 493 | 562 | 8 | 52 | 32 | 4.1 |
| 16 | ARS09-724 | 657 | 532 | 595 | 3 | 42 | 39 | 3.1 |
| 17 | GA 051173W-S11 | 358 | 417 | 388 | 35 | 32 | 47 | 2.8 |
| 18 | GA 051207-S19 | 518 | 421 | 470 | 23 | 46 | 36 | 4.3 |
| 19 | GA 051207-S21 | 538 | 431 | 485 | 22 | 26 | 50 | 4.1 |
| 20 | GA 051173-S25 | 489 | 445 | 467 | 25 | 36 | 41 | 3.4 |
| 21 | GA 051173-S18 | 411 | 517 | 464 | 26 | 60 | 25 | 3.4 |
| 22 | GAMD08-27-E9-S13 | . | . | . | . | 92 | 10 | 2.5 |
| 23 | GAMD08-27-E9-S14 | . | . | . | . | 59 | 26 | 2.5 |
| 24 | GAMD08-27-E9-S15 | . | . | . | . | 98 | 7 | 2.5 |
| 25 | LA'04039C-14-8 | 582 | 335 | 459 | 28 | 86 | 12 | 3.9 |
| 26 | LA'04039C-10-6 | 665 | 418 | 541 | 11 | 43 | 38 | 4.2 |
| 27 | LA05102C-1-2 | 638 | 526 | 582 | 4 | 100 | 1 | 3.3 |
| 28 | LA05102C-8-8 | 645 | 688 | 667 | 1 | 75 | 18 | 3.9 |
| 29 | LA05079D-55 | 586 | 522 | 554 | 9 | 58 | 27 | 3.2 |
| 30 | LA05079F-P01 | 629 | 517 | 573 | 7 | 63 | 24 | 3.4 |
| 31 | LA05079F-P03 | 499 | 548 | 523 | 15 | 67 | 23 | 3.8 |
| 32 | LA05145D-12 | 549 | 494 | 522 | 17 | 36 | 41 | 3.3 |
| 33 | LA05145D-24 | 401 | 209 | 305 | 42 | 100 | 1 | 3.8 |
| 34 | MD03W61-11-2 | 647 | 501 | 574 | 6 | 71 | 21 | 3.4 |
| 35 | MD03W61-11-3 | 666 | 527 | 597 | 2 | 83 | 14 | 3.5 |
| 36 | UX0066-4-79 | 417 | 290 | 354 | 37 | 49 | 34 | 3.3 |
| 37 | MD08-22-1-6-4 | 473 | 152 | 313 | 41 | 96 | 9 | 2.6 |
| 38 | MD08-26-H2-23 | 422 | 453 | 438 | 29 | 47 | 35 | 2.8 |
| 39 | MH07-7483 | 580 | 482 | 531 | 13 | 83 | 14 | 3.0 |
| 40 | M09-9826# | 616 | 241 | 429 | 32 | 100 | 1 | 3.8 |
| 41 | NC08-23323 | 557 | 137 | 347 | 39 | 46 | 36 | 3.6 |
| 42 | NC08-23324 | 509 | 78 | 294 | 43 | 78 | 16 | 3.4 |
| 43 | NC09-22422 (Fhb1) | 584 | 465 | 524 | 14 | 92 | 10 | 3.9 |
| 44 | NC09-20986 (Fhb1) | 594 | 451 | 523 | 16 | 100 | 1 | 4.0 |
| 45 | NC8355-4 (Fhb1) | 467 | 307 | 387 | 36 | 72 | 20 | 3.7 |
| 46 | NC8452-2 | 394 | 303 | 349 | 38 | 97 | 8 | 2.9 |
| 47 | VA09W-52 | 504 | 422 | 463 | 27 | 100 | 1 | 4.3 |
| 48 | VA09W-73 | 584 | 483 | 534 | 12 | 56 | 30 | 3.7 |
| 49 | VA09W-75 | 593 | 447 | 520 | 18 | 100 | 1 | 3.9 |
| 50 | VA10W-42 | 668 | 484 | 576 | 5 | 84 | 13 | 3.4 |
| 51 | VA10W-140 | 359 | 155 | 257 | 44 | 34 | 44 | 3.4 |
| | Mean | 513 | 384 | 455 | | 63 | | 3.5 |
| | LSD (0.05) | 92 | 58 | 47 | | . | | 0.7 |
| | CV% | . | . | 18.4 | | . | | 9.8 |

# DON
# (ppm)

| | Cultivar/ Designation | B'BURG VA | RANK | LEX'TON KY | RANK | KINSTON NC | RANK | F'VILLE AR | RANK | NEWPORT AR | RANK | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 2 | 25 | 8 | 19 | 7 | 17 | 1 | 4 | 7 | 24 | 5 | 17 |
| 2 | COKER 9835 | 3 | 42 | 17 | 44 | 39 | 42 | 9 | 46 | 33 | 46 | 20 | 48 |
| 3 | BESS | 2 | 25 | 5 | 4 | 5 | 11 | 2 | 21 | 3 | 7 | 3 | 3 |
| 4 | JAMESTOWN | 1 | 4 | 8 | 19 | 3 | 4 | 1 | 4 | 4 | 10 | 3 | 3 |
| 5 | NC09-21916 | 1 | 4 | 6 | 10 | 3 | 4 | 1 | 4 | 2 | 4 | 3 | 3 |
| 6 | VA08W-613 | 1 | 4 | 5 | 4 | 4 | 8 | 2 | 21 | 6 | 21 | 4 | 10 |
| 7 | M08-8036# | 1 | 4 | 6 | 10 | 17 | 32 | 1 | 4 | 2 | 4 | 6 | 23 |
| 8 | IL02-18228 | 1 | 4 | 3 | 1 | 6 | 14 | 1 | 4 | 1 | 1 | 2 | 1 |
| 9 | ARS07-1214 | 13 | 51 | 31 | 50 | 37 | 40 | 24 | 48 | 38 | 48 | 29 | 51 |
| 10 | ARS09-173 | 1 | 4 | 14 | 41 | 10 | 23 | 3 | 34 | 20 | 45 | 10 | 40 |
| 11 | ARS09-367 | 9 | 50 | 38 | 51 | 31 | 39 | 21 | 47 | 36 | 47 | 27 | 50 |
| 12 | ARS09-446 | 2 | 25 | 20 | 48 | . | . | 7 | 43 | 14 | 42 | 12 | 43 |
| 13 | ARS09-513 | 2 | 25 | 12 | 37 | 13 | 28 | 4 | 37 | 14 | 42 | 9 | 36 |
| 14 | ARS09-595 | 1 | 4 | 8 | 19 | 4 | 8 | 6 | 41 | 9 | 33 | 6 | 23 |
| 15 | ARS09-643 | 1 | 4 | 20 | 48 | . | . | 5 | 39 | 13 | 38 | 12 | 43 |
| 16 | ARS09-724 | 2 | 25 | 9 | 27 | 38 | 41 | 2 | 21 | 5 | 14 | 11 | 42 |
| 17 | GA 051173W-S11 | 3 | 42 | 11 | 33 | 96 | 44 | 7 | 43 | 13 | 38 | 26 | 49 |
| 18 | GA 051207-S19 | 2 | 25 | 9 | 27 | 16 | 30 | 2 | 21 | 8 | 29 | 7 | 29 |
| 19 | GA 051207-S21 | 2 | 25 | 7 | 16 | 24 | 36 | 2 | 21 | 8 | 29 | 9 | 36 |
| 20 | GA 051173-S25 | 2 | 25 | 13 | 40 | 8 | 19 | 6 | 41 | 13 | 38 | 9 | 36 |
| 21 | GA 051173-S18 | 1 | 4 | 9 | 27 | 3 | 4 | 2 | 21 | 3 | 7 | 4 | 10 |
| 22 | GAMD08-27-E9-S13 | 2 | 25 | 6 | 10 | 7 | 17 | . | | . | . | 4 | 10 |
| 23 | GAMD08-27-E9-S14 | 3 | 42 | 6 | 10 | 10 | 23 | . | | . | . | 5 | 17 |
| 24 | GAMD08-27-E9-S15 | 2 | 25 | 6 | 10 | 8 | 19 | . | | . | . | 4 | 10 |
| 25 | LA'04039C-14-8 | 1 | 4 | 7 | 16 | . | . | 0 | 1 | 3 | 7 | 5 | 17 |
| 26 | LA'04039C-10-6 | 1 | 4 | 11 | 33 | . | . | 1 | 4 | 5 | 14 | 6 | 23 |
| 27 | LA05102C-1-2 | 0 | 1 | 4 | 2 | . | . | 0 | 1 | 1 | 1 | 3 | 3 |
| 28 | LA05102C-8-8 | 1 | 4 | 5 | 4 | . | . | 0 | 1 | 1 | 1 | 4 | 10 |
| 29 | LA05079D-55 | 1 | 4 | 16 | 42 | . | . | 1 | 4 | 9 | 33 | 9 | 36 |
| 30 | LA05079F-P01 | 2 | 25 | 10 | 30 | 8 | 19 | 1 | 4 | 6 | 21 | 5 | 17 |
| 31 | LA05079F-P03 | 5 | 48 | 17 | 44 | 8 | 19 | 2 | 21 | 8 | 29 | 8 | 34 |
| 32 | LA05145D-12 | 1 | 4 | 12 | 37 | 4 | 8 | 2 | 21 | 12 | 36 | 6 | 23 |
| 33 | LA05145D-24 | 4 | 46 | 19 | 47 | 18 | 33 | 8 | 45 | 14 | 42 | 13 | 46 |
| 34 | MD03W61-11-2(11PW#108) | 1 | 4 | 16 | 42 | 6 | 14 | 2 | 21 | 7 | 24 | 7 | 29 |
| 35 | MD03W61-11-3(11PW#109) | 2 | 25 | 10 | 30 | 24 | 36 | 1 | 4 | 6 | 21 | 8 | 34 |
| 36 | UX0066-4-79(11PW#183) | 2 | 25 | 8 | 19 | 3 | 4 | 1 | 4 | 7 | 24 | 4 | 10 |
| 37 | MD08-22-1-6-4(11PW#189) | 1 | 4 | 5 | 4 | 2 | 1 | 1 | 4 | 2 | 4 | 2 | 1 |
| 38 | MD08-26-H2-23(11CVM-3) | 1 | 4 | 5 | 4 | 5 | 11 | 1 | 4 | 4 | 10 | 3 | 3 |
| 39 | MH07-7483 | 5 | 48 | 18 | 46 | 24 | 36 | 5 | 39 | 11 | 35 | 12 | 43 |
| 40 | M09-9826# | 1 | 4 | 8 | 19 | 16 | 30 | 1 | 4 | 5 | 14 | 6 | 23 |
| 41 | NC08-23323 | 2 | 25 | 11 | 33 | 21 | 35 | 2 | 21 | 12 | 36 | 10 | 40 |
| 42 | NC08-23324 | 4 | 46 | 8 | 19 | 61 | 43 | 2 | 21 | 13 | 38 | 17 | 47 |
| 43 | NC09-22422 (Fhb1) | 1 | 4 | 4 | 2 | 10 | 23 | 1 | 4 | 4 | 10 | 4 | 10 |
| 44 | NC09-20986 (Fhb1) | 0 | 1 | 5 | 4 | 2 | 1 | 1 | 4 | 5 | 14 | 3 | 3 |
| 45 | NC8355-4 (Fhb1) | 0 | 1 | 8 | 19 | 2 | 1 | 1 | 4 | 7 | 24 | 3 | 3 |
| 46 | NC8452-2 | 2 | 25 | 12 | 37 | 5 | 11 | 4 | 37 | 5 | 14 | 6 | 23 |
| 47 | VA09W-52 | 1 | 4 | 7 | 16 | 6 | 14 | 3 | 34 | 8 | 29 | 5 | 17 |
| 48 | VA09W-73 | 2 | 25 | 10 | 30 | 14 | 29 | 3 | 34 | 7 | 24 | 7 | 29 |
| 49 | VA09W-75 | 1 | 4 | 8 | 19 | 20 | 34 | 1 | 4 | 4 | 10 | 7 | 29 |
| 50 | VA10W-42 | 3 | 42 | 11 | 33 | 11 | 27 | 2 | 21 | 5 | 14 | 7 | 29 |
| 51 | VA10W-140 | 2 | 25 | 6 | 10 | 10 | 23 | 2 | 21 | 5 | 14 | 5 | 17 |
| | Mean | 2 | | 9 | | 15 | | 3 | | 9 | | 8 | |
| | LSD (0.05) | . | | 8 | | 20 | | 8 | | 2 | | 15 | |
| | CV% | . | | 41.0 | | 67.8 | | 54.0 | | 36.0 | | 96.1 | |

# Greenhouse Screening

| | Cultivar/ Designation | MO SEVERITY | RANK |
|---|---|---|---|
| 1 | ERNIE | 23 | 14 |
| 2 | COKER 9835 | 63 | 51 |
| 3 | BESS | 20 | 6 |
| 4 | JAMESTOWN | 33 | 33 |
| 5 | NC09-21916 | 29 | 26 |
| 6 | VA08W-613 | 28 | 22 |
| 7 | M08-8036# | 39 | 44 |
| 8 | IL02-18228 | 24 | 15 |
| 9 | ARS07-1214 | 42 | 46 |
| 10 | ARS09-173 | 47 | 50 |
| 11 | ARS09-367 | 47 | 49 |
| 12 | ARS09-446 | 33 | 31 |
| 13 | ARS09-513 | 32 | 30 |
| 14 | ARS09-595 | 28 | 23 |
| 15 | ARS09-643 | 33 | 34 |
| 16 | ARS09-724 | 27 | 20 |
| 17 | GA 051173W-S11 | 23 | 13 |
| 18 | GA 051207-S19 | 34 | 37 |
| 19 | GA 051207-S21 | 26 | 18 |
| 20 | GA 051173-S25 | 29 | 25 |
| 21 | GA 051173-S18 | 21 | 10 |
| 22 | GAMD08-27-E9-S13 | 18 | 4 |
| 23 | GAMD08-27-E9-S14 | 10 | 2 |
| 24 | GAMD08-27-E9-S15 | 9 | 1 |
| 25 | LA'04039C-14-8 | 23 | 12 |
| 26 | LA'04039C-10-6 | 19 | 5 |
| 27 | LA05102C-1-2 | 29 | 24 |
| 28 | LA05102C-8-8 | 45 | 48 |
| 29 | LA05079D-55 | 26 | 19 |
| 30 | LA05079F-P01 | 30 | 29 |
| 31 | LA05079F-P03 | 29 | 27 |
| 32 | LA05145D-12 | 44 | 47 |
| 33 | LA05145D-24 | 41 | 45 |
| 34 | MD03W61-11-2 | 26 | 17 |
| 35 | MD03W61-11-3 | 20 | 9 |
| 36 | UX0066-4-79 | 38 | 41 |
| 37 | MD08-22-1-6-4 | 33 | 35 |
| 38 | MD08-26-H2-23 | 38 | 40 |
| 39 | MH07-7483 | 20 | 8 |
| 40 | M09-9826# | 20 | 7 |
| 41 | NC08-23323 | 25 | 16 |
| 42 | NC08-23324 | 22 | 11 |
| 43 | NC09-22422 (Fhb1) | 35 | 38 |
| 44 | NC09-20986 (Fhb1) | 30 | 28 |
| 45 | NC8355-4 (Fhb1) | 34 | 36 |
| 46 | NC8452-2 | 16 | 3 |
| 47 | VA09W-52 | 33 | 32 |
| 48 | VA09W-73 | 36 | 39 |
| 49 | VA09W-75 | 39 | 43 |
| 50 | VA10W-42 | 27 | 21 |
| 51 | VA10W-140 | 39 | 42 |
| Mean | | 30 | |

## SSR Analyses of Regions Associated with FHB Resistance and Other Pertinent Loci

| | DESIGNATION | Rht-B1b | Rht-D1b | Rht8 | Ppd-D1a | vrn-A1 | Lr34/Yr18 | Lr37/Yr17 | Sr36 | Sr24/Lr24 | Sr2 | Lr9 | Qyr.uga-2AS | Fhb1 | Fhb 5A ERNIE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | het | no | no | het | het | no | no | yes | no | no | no | no | no | yes |
| 2 | COKER 9835 | no | yes | no | yes | vrn-A1b | no | no | yes | no | no | yes | no | no | no |
| 3 | BESS | yes | no | no | no | vrn-A1b | no | no | no | no | no | no | no | no | no |
| 4 | JAMESTOWN | no | yes | no | yes | vrn-A1a | no | no | no | no | no | no | no | no | no |
| 5 | NC09-21916 | no | yes | no | yes | vrn-A1b | no | no | no | no | no | no | no | no | no |
| 6 | VA08W-613 | no | yes | no | yes | vrn-A1a | no | no | no | no | no | yes | no | no | no |
| 7 | M08-8036# | no | no | no | yes | vrn-A1b | no | no | yes | no | no | yes | no | no | no |
| 8 | IL02-18228 | yes | het | no | no | vrn-A1b | no | no | no | no | no | no | no | no | no |
| 9 | ARS07-1214 | yes | no | no | no | vrn-A1b | no | no | no | yes | no | no | no | no | no |
| 10 | ARS09-173 | yes | no | no | yes | vrn-A1b | no | yes | no | no | no | no | no | no | no |
| 11 | ARS09-367 | yes | no | no | no | vrn-A1b | no | no | no | yes | no | no | no | no | no |
| 12 | ARS09-446 | no | no | no | no | vrn-A1b | no | no | yes | no | no | no | no | no | no |
| 13 | ARS09-513 | no | no | het | yes | vrn-A1b | no | no | het | no | no | no | no | no | no |
| 14 | ARS09-595 | no | no | no | yes | vrn-A1a | no | no | yes | no | no | no | no | no | no |
| 15 | ARS09-643 | no | yes | no | yes | vrn-A1b | no | het | no | no | no | no | no | no | no |
| 16 | ARS09-724 | yes | no | no | yes | vrn-A1b | no | yes | no | no | no | no | no | no | no |
| 17 | GA 051173W-S11 | no | yes | no | het | vrn-A1b | no | yes | no | no | no | no | no | no | no |
| 18 | GA 051207-S19 | no | yes | no | yes | vrn-A1b | no | yes | no | no | no | no | no | no | no |
| 19 | GA 051207-S21 | no | yes | no | yes | vrn-A1b | no | yes | | no | no | no | no | no | no |
| 20 | GA 051173-S25 | yes | no | no | yes | vrn-A1b | no | yes | no | no | no | no | no | no | no |
| 21 | GA 051173-S18 | no | yes | no | yes | vrn-A1b | no | yes | no | no | no | no | no | no | no |
| 22 | GAMD08-27-E9-S13 | no | yes | no | no | vrn-A1b | no | het | no | no | no | no | no | yes | no |
| 23 | GAMD08-27-E9-S14 | no | yes | no | no | vrn-A1b | no | yes | no | no | no | no | no | yes | no |
| 24 | GAMD08-27-E9-S15 | no | yes | no | no | vrn-A1b | no | het | no | no | no | no | no | yes | no |
| 25 | LA'04039C-14-8 | no | no | no | het | vrn-A1b | no | no | yes | no | no | yes | no | no | no |
| 26 | LA'04039C-10-6 | no | no | no | het | vrn-A1b | no | no | yes | yes | no | no | yes | no | no |
| 27 | LA05102C-1-2 | no | no | no | yes | het | no | no | yes | no | no | no | yes | no | no |
| 28 | LA05102C-8-8 | no | no | no | yes | vrn-A1b | no | no | yes | no | no | no | no | no | no |
| 29 | LA05079D-55 | yes | no | no | no | vrn-A1b | no | no | no | no | no | no | no | no | no |
| 30 | LA05079F-P01 | yes | no | no | no | vrn-A1b | no | no | no | no | no | yes | no | no | no |
| 31 | LA05079F-P03 | yes | no | no | het | vrn-A1b | no | no | yes | no | no | yes | no | no | no |
| 32 | LA05145D-12 | no | yes | no | yes | vrn-A1a | no | no | yes | no | no | no | no | no | no |
| 33 | LA05145D-24 | no | yes | no | yes | vrn-A1a | no | no | no | no | no | yes | no | no | no |
| 34 | MD03W61-11-2 | no | yes | | yes | vrn-A1b | no | no | no | no | no | no | no | no | |
| 35 | MD03W61-11-3 | no | yes | no | yes | vrn-A1b | no | no | yes | no | no | no | no | no | no |
| 36 | UX0066-4-79 | no | yes | no | yes | vrn-A1b | no | no | yes | no | no | no | yes | | het |
| 37 | MD08-22-1-6-4 | no | yes | no | no | vrn-A1b | no | no | no | yes | no | no | no | yes | no |
| 38 | MD08-26-H2-23 | no | yes | no | yes | vrn-A1b | no | yes | no | yes | no | no | no | yes | no |
| 39 | MH07-7483 | yes | no | no | yes | vrn-A1b | no | no | no | no | no | no | no | no | no |
| 40 | M09-9826# | yes | no | no | het | vrn-A1b | no | no | yes | no | no | yes | no | no | no |
| 41 | NC08-23323 | no | yes | no | yes | vrn-A1b | no | no | no | no | no | yes | no | no | no |
| 42 | NC08-23324 | no | yes | no | het | vrn-A1b | no | no | no | no | no | yes | no | no | no |
| 43 | NC09-22422 (Fhb1) | het | no | no | het | vrn-A1b | no | yes | no | no | no | no | no | yes | no |
| 44 | NC09-20986 (Fhb1) | yes | no | no | het | vrn-A1b | no | yes | no | no | no | no | no | yes | no |
| 45 | NC8355-4 (Fhb1) | no | yes | no | yes | vrn-A1a | no | no | yes | no | no | no | no | yes | no |
| 46 | NC8452-2 | no | yes | no | yes | vrn-A1b | no | no | het | yes | no | yes | het | no | het |
| 47 | VA09W-52 | no | yes | no | yes | vrn-A1a | no | no | no | no | no | no | no | no | no |
| 48 | VA09W-73 | no | het | no | no | vrn-A1b | no | no | no | no | no | yes | no | no | no |
| 49 | VA09W-75 | no | yes | no | het | vrn-A1b | no | no | no | no | no | yes | no | no | no |
| 50 | VA10W-42 | yes | no | no | yes | vrn-A1b | no | no | no | no | no | no | no | no | no |
| 51 | VA10W-140 | no | yes | no | yes | vrn-A1b | no | no | no | no | no | yes | no | no | no |

## SSR Analyses of Regions Associated with FHB Resistance and Other Pertinent Loci

| | DESIGNATION | Fhb Ernie 3Bc | Fhb 5A Ning7840 | Fhb 2DL-Wuhan1/W14 | 1RS:1AL | 1RS:1BL | H13 | H9 | Bdv2/3 | Sbm1 | Bx7 over-expressing | Glu-A1 | Glu-D1 | TaSus2-2B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | | no | no | no | no | no | no | no | no | no | Ax1 or null | het | yes |
| 2 | COKER 9835 | yes | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | yes |
| 3 | BESS | no | no | no | no | no | no | no | no | yes | no | Ax1 or null | 2+12 | no |
| 4 | JAMESTOWN | no | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 5 | NC09-21916 | no | no | no | no | no | no | no | no | yes | no | Ax2* | 5+10 | no |
| 6 | VA08W-613 | no | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 7 | M08-8036# | no | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | yes |
| 8 | IL02-18228 | no | no | no | no | no | no | no | no | yes | no | Ax1 or null | 5+10 | no |
| 9 | ARS07-1214 | no | no | no | no | no | no | no | no | yes | no | Ax1 or null | 2+12 | no |
| 10 | ARS09-173 | no | no | no | no | no | het | no | no | yes | no | Ax2* | 2+12 | no |
| 11 | ARS09-367 | no | no | no | no | no | no | no | no | yes | no | Ax1 or null | 2+12 | no |
| 12 | ARS09-446 | no | no | no | no | no | no | no | no | no | no | Ax2* | 5+10 | yes |
| 13 | ARS09-513 | no | no | no | no | no | no | no | no | no | no | Ax1 or null | 2+12 | het |
| 14 | ARS09-595 | no | no | no | no | no | no | no | no | yes | no | Ax2* | 5+10 | yes |
| 15 | ARS09-643 | no | no | no | yes | no | no | no | no | yes | het | Ax2* | 2+12 | no |
| 16 | ARS09-724 | no | no | no | no | no | no | no | no | no | no | Ax1 or null | 2+12 | no |
| 17 | GA 051173W-S11 | no | no | no | no | no | yes | no | no | yes | no | het | 2+12 | no |
| 18 | GA 051207-S19 | no | no | no | no | no | no | yes | no | yes | no | Ax2* | 5+10 | no |
| 19 | GA 051207-S21 | no | no | no | het | no | no | yes | no | yes | no | Ax2* | 5+10 | no |
| 20 | GA 051173-S25 | no | no | no | no | no | yes | no | no | yes | no | Ax1 or null | 2+12 | no |
| 21 | GA 051173-S18 | no | no | no | no | no | yes | no | no | yes | no | Ax1 or null | 2+12 | no |
| 22 | GAMD08-27-E9-S13 | no | yes | no | yes | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 23 | GAMD08-27-E9-S14 | no | yes | no | yes | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 24 | GAMD08-27-E9-S15 | no | yes | no | yes | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 25 | LA'04039C-14-8 | no | no | no | no | yes | no | no | no | no | no | Ax2* | 5+10 | yes |
| 26 | LA'04039C-10-6 | no | no | no | no | yes | no | no | no | no | no | Ax2* | 5+10 | yes |
| 27 | LA05102C-1-2 | no | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | yes |
| 28 | LA05102C-8-8 | no | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | yes |
| 29 | LA05079D-55 | no | no | no | no | no | no | no | no | yes | no | Ax1 or null | 2+12 | no |
| 30 | LA05079F-P01 | no | no | no | no | no | no | no | no | yes | no | Ax1 or null | 2+12 | no |
| 31 | LA05079F-P03 | no | no | no | no | no | no | no | no | het | yes | Ax2* | 5+10 | yes |
| 32 | LA05145D-12 | no | | no | no | yes | no | no | no | yes | het | Ax2* | 5+10 | yes |
| 33 | LA05145D-24 | no | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 34 | MD03W61-11-2 | no | | no | no | no | no | no | | yes | no | Ax2* | 2+12 | het |
| 35 | MD03W61-11-3 | | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | yes |
| 36 | UX0066-4-79 | no | no | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | yes |
| 37 | MD08-22-1-6-4 | no | yes | no | yes | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 38 | MD08-26-H2-23 | no | het | no | no | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 39 | MH07-7483 | no | no | no | no | yes | no | no | no | yes | no | Ax1 or null | het | no |
| 40 | M09-9826# | no | no | no | no | no | no | no | no | yes | no | Ax2* | het | yes |
| 41 | NC08-23323 | het? | no | no | het | no | no | no | no | yes | no | Ax1 or null | 2+12 | no |
| 42 | NC08-23324 | no | no | no | yes | no | no | no | no | yes | no | Ax1 or null | 2+12 | no |
| 43 | NC09-22422 (Fhb1) | no | no | no | no | no | yes | no | no | yes | no | Ax2* | nknow | no |
| 44 | NC09-20986 (Fhb1) | no | no | no | no | no | het | no | no | yes | no | Ax2* | het | no |
| 45 | NC8355-4 (Fhb1) | no | no | no | no | no | no | no | no | yes | no | Ax1 or null | 5+10 | yes |
| 46 | NC8452-2 | no | no | no | het | no | no | no | no | yes | no | Ax2* | 2+12 | het |
| 47 | VA09W-52 | no | no | no | het | no | no | no | no | yes | no | Ax1 or null | 2+12 | no |
| 48 | VA09W-73 | no | no | no | no | no | no | no | no | no | no | Ax2* | 2+12 | no |
| 49 | VA09W-75 | no | no | no | yes | no | no | no | no | no | no | Ax2* | 2+12 | no |
| 50 | VA10W-42 | no | no | no | | no | no | no | no | yes | no | Ax2* | 2+12 | no |
| 51 | VA10W-140 | no | no | no | no | no | no | no | no | no | no | Ax2* | 5+10 | no |

# Heading Date (Julian Days*)

| | | K'STON NC | WARSAW VA | S'BURY MD | LEX'TON KY | COL'BIA MO | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 85 | 123 | 109 | 108 | 117 | 108 | 9 |
| 2 | COKER 9835 | 80 | 123 | 111 | 112 | 123 | 110 | 19 |
| 3 | BESS | 96 | 123 | 113 | 110 | 123 | 113 | 38 |
| 4 | JAMESTOWN | 82 | 121 | 106 | 106 | 118 | 106 | 3 |
| 5 | NC09-21916 | 94 | 123 | 112 | 114 | 121 | 113 | 38 |
| 6 | VA08W-613 | 84 | 121 | 110 | 108 | 118 | 108 | 9 |
| 7 | M08-8036# | 92 | 123 | 110 | 110 | 121 | 111 | 26 |
| 8 | IL02-18228 | 102 | 129 | 112 | 113 | 123 | 116 | 43 |
| 9 | ARS07-1214 | 100 | 129 | 112 | 116 | 123 | 116 | 43 |
| 10 | ARS09-173 | 85 | 118 | 105 | 106 | 117 | 106 | 3 |
| 11 | ARS09-367 | 97 | 126 | 110 | 109 | 123 | 113 | 38 |
| 12 | ARS09-446 | . | 123 | 102 | 107 | 121 | 108 | 9 |
| 13 | ARS09-513 | 91 | 123 | 107 | 109 | 121 | 110 | 19 |
| 14 | ARS09-595 | 83 | 121 | 102 | 105 | 123 | 107 | 6 |
| 15 | ARS09-643 | . | 118 | 102 | 107 | 117 | 106 | 3 |
| 16 | ARS09-724 | 92 | 123 | 108 | 108 | 121 | 110 | 19 |
| 17 | GA 051173W-S11 | 96 | 123 | 111 | 110 | 123 | 112 | 33 |
| 18 | GA 051207-S19 | 90 | 123 | 109 | 110 | 123 | 111 | 26 |
| 19 | GA 051207-S21 | 89 | 123 | 108 | 112 | 121 | 110 | 19 |
| 20 | GA 051173-S25 | 88 | 126 | 109 | 116 | 123 | 112 | 33 |
| 21 | GA 051173-S18 | 86 | 118 | 102 | 102 | 117 | 105 | 1 |
| 22 | GAMD08-27-E9-S13 | 106 | 129 | 117 | 121 | 131 | 121 | 49 |
| 23 | GAMD08-27-E9-S14 | 107 | 129 | 118 | 122 | 131 | 121 | 49 |
| 24 | GAMD08-27-E9-S15 | 105 | 129 | 118 | 120 | 131 | 121 | 49 |
| 25 | LA'04039C-14-8 | . | 123 | 102 | 104 | 121 | 107 | 6 |
| 26 | LA'04039C-10-6 | . | 121 | 107 | 110 | 123 | 110 | 19 |
| 27 | LA05102C-1-2 | . | 121 | 101 | 103 | 118 | 105 | 1 |
| 28 | LA05102C-8-8 | . | 123 | 104 | 107 | 121 | 108 | 9 |
| 29 | LA05079D-55 | . | 123 | 105 | 107 | 123 | 109 | 17 |
| 30 | LA05079F-P01 | 82 | 123 | 107 | 108 | 123 | 108 | 9 |
| 31 | LA05079F-P03 | 81 | 126 | 107 | 111 | 123 | 110 | 19 |
| 32 | LA05145D-12 | 81 | 123 | 105 | 106 | 118 | 107 | 6 |
| 33 | LA05145D-24 | 96 | 129 | 113 | 117 | 123 | 116 | 43 |
| 34 | MD03W61-11-2 | 90 | 121 | 107 | 113 | 123 | 111 | 26 |
| 35 | MD03W61-11-3 | 92 | 123 | 110 | 113 | 121 | 112 | 33 |
| 36 | UX0066-4-79 | 85 | 126 | 109 | 112 | 123 | 111 | 26 |
| 37 | MD08-22-1-6-4 | 105 | 129 | 115 | 117 | 123 | 118 | 48 |
| 38 | MD08-26-H2-23 | 90 | 123 | 111 | 107 | 123 | 111 | 26 |
| 39 | MH07-7483 | 100 | 129 | 114 | 115 | 123 | 116 | 43 |
| 40 | M09-9826# | 82 | 123 | 108 | 106 | 123 | 108 | 9 |
| 41 | NC08-23323 | 90 | 123 | 109 | 109 | 123 | 111 | 26 |
| 42 | NC08-23324 | 93 | 123 | 111 | 108 | 123 | 112 | 33 |
| 43 | NC09-22422 (Fhb1) | 91 | 123 | 109 | 110 | 121 | 111 | 26 |
| 44 | NC09-20986 (Fhb1) | 88 | 123 | 108 | 109 | 121 | 110 | 19 |
| 45 | NC8355-4 (Fhb1) | 82 | 123 | 103 | 107 | 123 | 108 | 9 |
| 46 | NC8452-2 | 99 | 129 | 115 | 115 | 123 | 116 | 43 |
| 47 | VA09W-52 | 84 | 123 | 108 | 109 | 123 | 109 | 17 |
| 48 | VA09W-73 | 96 | 123 | 113 | 111 | 123 | 113 | 38 |
| 49 | VA09W-75 | 83 | 121 | 108 | 108 | 121 | 108 | 9 |
| 50 | VA10W-42 | 90 | 129 | 111 | 108 | 123 | 112 | 33 |
| 51 | VA10W-140 | 97 | 123 | 113 | 109 | 123 | 113 | 38 |
| | Mean | 91 | 124 | 109 | 110 | 122 | 112 | |
| | LSD (0.05) | 4 | 5 | 3 | 5 | . | 6 | |
| | CV% | 2.0 | 4.0 | 1.4 | 12.2 | . | 2.5 | |

*Days after December 31, 2011

## Plant Height (in)

| | CULTIVAR/ DESIGNATION | K'STON NC | S'BURY MD | LEX'TON KY | FUN'LEA ROM | SZEGED HUN | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 38 | 31 | 30 | 23 | 31 | 31 | 10 |
| 2 | COKER 9835 | 34 | 32 | 32 | 25 | 29 | 30 | 3 |
| 3 | BESS | 42 | 34 | 34 | 29 | 35 | 35 | 39 |
| 4 | JAMESTOWN | 35 | 30 | 30 | 25 | 33 | 31 | 10 |
| 5 | NC09-21916 | 40 | 36 | 34 | 27 | 35 | 35 | 39 |
| 6 | VA08W-613 | 37 | 31 | 34 | 25 | 33 | 32 | 18 |
| 7 | M08-8036# | 41 | 33 | 32 | 25 | 33 | 33 | 22 |
| 8 | IL02-18228 | 44 | 36 | 33 | 33 | 38 | 37 | 47 |
| 9 | ARS07-1214 | 41 | 33 | 31 | 27 | 33 | 33 | 22 |
| 10 | ARS09-173 | 34 | 31 | 28 | 25 | 33 | 30 | 3 |
| 11 | ARS09-367 | 38 | 31 | 32 | 22 | 33 | 31 | 10 |
| 12 | ARS09-446 | . | 32 | 32 | 31 | 38 | 34 | 30 |
| 13 | ARS09-513 | 38 | 33 | 31 | 27 | 35 | 33 | 22 |
| 14 | ARS09-595 | 34 | 33 | 31 | 31 | 40 | 34 | 30 |
| 15 | ARS09-643 | . | 31 | 30 | 25 | 33 | 24 | 1 |
| 16 | ARS09-724 | 40 | 33 | 37 | 33 | 40 | 37 | 47 |
| 17 | GA 051173W-S11 | 46 | 38 | 39 | 38 | 40 | 40 | 51 |
| 18 | GA 051207-S19 | 37 | 34 | 36 | 29 | 35 | 34 | 30 |
| 19 | GA 051207-S21 | 37 | 35 | 36 | 31 | 35 | 35 | 39 |
| 20 | GA 051173-S25 | 39 | 36 | 30 | 31 | 33 | 34 | 30 |
| 21 | GA 051173-S18 | 37 | 29 | 27 | 27 | 31 | 30 | 3 |
| 22 | GAMD08-27-E9-S13 | 40 | 36 | 36 | 29 | 35 | 35 | 39 |
| 23 | GAMD08-27-E9-S14 | 40 | 34 | 33 | 27 | 35 | 34 | 30 |
| 24 | GAMD08-27-E9-S15 | 41 | 36 | 33 | 21 | 38 | 34 | 30 |
| 25 | LA'04039C-14-8 | . | 30 | 30 | 25 | 38 | 31 | 10 |
| 26 | LA'04039C-10-6 | . | 32 | 34 | 35 | 40 | 36 | 44 |
| 27 | LA05102C-1-2 | . | 32 | 33 | 31 | 44 | 36 | 44 |
| 28 | LA05102C-8-8 | . | 34 | 34 | 31 | 46 | 37 | 47 |
| 29 | LA05079D-55 | . | 30 | 31 | 27 | 38 | 32 | 18 |
| 30 | LA05079F-P01 | 35 | 34 | 31 | 29 | 38 | 33 | 22 |
| 31 | LA05079F-P03 | 33 | 30 | 28 | 21 | 35 | 29 | 2 |
| 32 | LA05145D-12 | 34 | 32 | 30 | 23 | 33 | 30 | 3 |
| 33 | LA05145D-24 | 44 | 40 | 38 | 33 | 42 | 39 | 50 |
| 34 | MD03W61-11-2(11PW | 36 | 32 | 29 | 25 | 31 | 30 | 3 |
| 35 | MD03W61-11-3(11PW | 39 | 34 | 33 | 25 | 31 | 32 | 18 |
| 36 | UX0066-4-79(11PW#1 | 39 | 35 | 31 | 23 | 29 | 31 | 10 |
| 37 | MD08-22-1-6-4(11PW# | 40 | 34 | 33 | 29 | 31 | 34 | 30 |
| 38 | MD08-26-H2-23(11CV | 39 | 37 | 36 | 27 | 35 | 35 | 39 |
| 39 | MH07-7483 | 42 | 36 | 36 | 31 | 38 | 36 | 44 |
| 40 | M09-9826# | 34 | 30 | 32 | 22 | 35 | 30 | 3 |
| 41 | NC08-23323 | 37 | 32 | 31 | 28 | 33 | 32 | 18 |
| 42 | NC08-23324 | 36 | 34 | 33 | 28 | 33 | 33 | 22 |
| 43 | NC09-22422 (Fhb1) | 36 | 30 | 32 | 23 | 33 | 31 | 10 |
| 44 | NC09-20986 (Fhb1) | 38 | 32 | 33 | 21 | 33 | 31 | 10 |
| 45 | NC8355-4 (Fhb1) | 30 | 33 | 31 | 21 | 33 | 30 | 3 |
| 46 | NC8452-2 | 40 | 31 | 32 | 28 | 33 | 33 | 22 |
| 47 | VA09W-52 | 33 | 34 | 33 | 21 | 35 | 31 | 10 |
| 48 | VA09W-73 | 37 | 35 | 35 | 25 | 33 | 33 | 22 |
| 49 | VA09W-75 | 38 | 33 | 37 | 27 | 33 | 34 | 30 |
| 50 | VA10W-42 | 42 | 35 | 38 | 21 | 35 | 34 | 30 |
| 51 | VA10W-140 | 40 | 34 | 32 | 25 | 35 | 33 | 22 |
| | Mean | 37 | 33 | 32 | 27 | 35 | 33 | |
| | LSD (0.05) | 4 | 4 | . | . | . | 6 | |
| | CV% | 5.0 | 6.0 | . | . | . | 10.0 | |

# Leaf Disease Ratings

| | CULTIVAR/ DESIGNATION | Stripe Rust % F'VILLE AR | Stripe Rust % N'PORT AR | Stagon. nodorum % F'VILLE AR |
|---|---|---|---|---|
| 1 | ERNIE | 30 | 68 | 7 |
| 2 | COKER 9835 | 50 | 78 | 15 |
| 3 | BESS | 0 | 17 | 30 |
| 4 | JAMESTOWN | 0 | 0 | 15 |
| 5 | NC09-21916 | 0 | 12 | 2 |
| 6 | VA08W-613 | 0 | 37 | 2 |
| 7 | M08-8036# | 0 | 37 | 2 |
| 8 | IL02-18228 | 0 | 7 | 15 |
| 9 | ARS07-1214 | 30 | 43 | 15 |
| 10 | ARS09-173 | 2 | 1 | 15 |
| 11 | ARS09-367 | 50 | 48 | 30 |
| 12 | ARS09-446 | 2 | 25 | 30 |
| 13 | ARS09-513 | 0 | 68 | 15 |
| 14 | ARS09-595 | 0 | 57 | 7 |
| 15 | ARS09-643 | 0 | 0 | 15 |
| 16 | ARS09-724 | 15 | 1 | 7 |
| 17 | GA 051173W-S11 | 30 | 2 | 15 |
| 18 | GA 051207-S19 | 30 | 15 | 15 |
| 19 | GA 051207-S21 | 30 | 12 | 15 |
| 20 | GA 051173-S25 | 0 | 0 | 15 |
| 21 | GA 051173-S18 | 0 | 1 | 7 |
| 22 | GAMD08-27-E9-S13 | 7 | 20 | 2 |
| 23 | GAMD08-27-E9-S14 | 15 | 1 | 2 |
| 24 | GAMD08-27-E9-S15 | 15 | 15 | 7 |
| 25 | LA'04039C-14-8 | 0 | 57 | 2 |
| 26 | LA'04039C-10-6 | 0 | 25 | 2 |
| 27 | LA05102C-1-2 | 0 | 1 | 7 |
| 28 | LA05102C-8-8 | 0 | 1 | 30 |
| 29 | LA05079D-55 | 0 | 0 | 15 |
| 30 | LA05079F-P01 | 0 | 0 | 15 |
| 31 | LA05079F-P03 | 0 | 0 | 15 |
| 32 | LA05145D-12 | 0 | 2 | 15 |
| 33 | LA05145D-24 | 15 | 70 | 7 |
| 34 | MD03W61-11-2 | 2 | 0 | 7 |
| 35 | MD03W61-11-3 | 0 | 0 | 2 |
| 36 | UX0066-4-79 | 7 | 57 | 15 |
| 37 | MD08-22-1-6-4 | 7 | 80 | 2 |
| 38 | MD08-26-H2-23 | 30 | 12 | 15 |
| 39 | MH07-7483 | 0 | 0 | 30 |
| 40 | M09-9826# | 0 | 78 | 7 |
| 41 | NC08-23323 | 0 | 89 | 7 |
| 42 | NC08-23324 | 0 | 94 | 7 |
| 43 | NC09-22422 (Fhb1) | 0 | 20 | 7 |
| 44 | NC09-20986 (Fhb1) | 2 | 10 | 7 |
| 45 | NC8355-4 (Fhb1) | 0 | 6 | 7 |
| 46 | NC8452-2 | 30 | 11 | 7 |
| 47 | VA09W-52 | 0 | 7 | 30 |
| 48 | VA09W-73 | 0 | 0 | 7 |
| 49 | VA09W-75 | 0 | 3 | 2 |
| 50 | VA10W-42 | 0 | 0 | 2 |
| 51 | VA10W-140 | 70 | 71 | 15 |
| | Mean | 9 | 25 | 11 |

# Hessian Fly Screening
## (Resistant - Susceptible Plants)[1]

| | CULTIVAR/ DESIGNATION | Biotype B | Biotype C | Biotype D | Biotype O | Biotype L |
|---|---|---|---|---|---|---|
| 1 | ERNIE | 0-21 | all S | 0-16 | 0-15 | 0-15 |
| 2 | COKER 9835 | 0-19 | all S | 0-18 | 0-18 | 0-13 |
| 3 | BESS | 6-15 | all S | 0-17 | 0-21 | 0-14 |
| 4 | JAMESTOWN | 18-0 | 16-0 | 17-0 | 0-15 | 0-16 |
| 5 | NC09-21916 | 10-7 | all S | 0-8 | 0-6 | 0-3 |
| 6 | VA08W-613 | 0-23 | all S | 0-16 | 0-20 | 0-18 |
| 7 | M08-8036# | 17-3 | all S | 0-15 | 0-16 | 0-20 |
| 8 | IL02-18228 | 17-4 | all S | 0-15 | 0-17 | 0-16 |
| 9 | ARS07-1214 | 0-19 | all S | 0-16 | 0-18 | 0-16 |
| 10 | ARS09-173 | 21-0 | 19-0 | 20-0 | 18-0 | 21-0 |
| 11 | ARS09-367 | 0-19 | 12-6 | 0-17 | 0-16 | 0-17 |
| 12 | ARS09-446 | 0-20 | all S | 0-20 | 0-17 | 0-14 |
| 13 | ARS09-513 | 0-20 | all S | 0-17 | 16-3 | 0-14 |
| 14 | ARS09-595 | 0-16 | all S | 0-17 | 0-17 | 0-17 |
| 15 | ARS09-643 | 0-16 | all S | 0-12 | 0-14 | 0-15 |
| 16 | ARS09-724 | 0-23 | all S | 0-14 | 0-19 | 0-14 |
| 17 | GA 051173W-S11 | 19-0 | 16-0 | 16-0 | 17-0 | 15-3 |
| 18 | GA 051207-S19 | 18-0 | all S | 15-0 | 17-0 | 14-0 |
| 19 | GA 051207-S21 | 18-0 | all S | 16-1 | 16-2 | 17-0 |
| 20 | GA 051173-S25 | 17-0 | 20-0 | 16-0 | 16-0 | 13-2 |
| 21 | GA 051173-S18 | 15-0 | 20-0 | 17-0 | 18-0 | 22-0 |
| 22 | GAMD08-27-E9-S13 | 0-16 | all S | 0-19 | 0-17 | 0-13 |
| 23 | GAMD08-27-E9-S14 | 0-20 | all S | 0-15 | 0-17 | 0-18 |
| 24 | GAMD08-27-E9-S15 | 0-23 | all S | 0-16 | 0-18 | 0-16 |
| 25 | LA'04039C-14-8 | 18-0 | 18-0 | 18-0 | 0-17 | 0-16 |
| 26 | LA'04039C-10-6 | 21-0 | 17-0 | 17-0 | 0-19 | 0-17 |
| 27 | LA05102C-1-2 | 21-0 | 17-0 | 21-0 | 20-0 | 0-15 |
| 28 | LA05102C-8-8 | 19-1 | 18-1 | 23-0 | 0-18 | 0-16 |
| 29 | LA05079D-55 | 0-20 | all S | 0-16 | 0-14 | 0-18 |
| 30 | LA05079F-P01 | 0-21 | all S | 0-16 | 0-15 | 0-16 |
| 31 | LA05079F-P03 | 0-20 | all S | 0-15 | 0-16 | 0-16 |
| 32 | LA05145D-12 | 20-0 | 17-1 | 18-0 | 17-0 | 0-17 |
| 33 | LA05145D-24 | 0-19 | all S | 0-16 | 0-19 | 0-17 |
| 34 | MD03W61-11-2 | 17-3 | 13-5 | 15-2 | 0-17 | 0-15 |
| 35 | MD03W61-11-3 | 18-0 | 19-1 | 18-0 | 0-18 | 0-17 |
| 36 | UX0066-4-79 | 7-10 | 2-12 | 14-4 | 0-19 | 0-18 |
| 37 | MD08-22-1-6-4 | 0-16 | all S | 0-18 | 4-12 | 0-19 |
| 38 | MD08-26-H2-23 | 15-5 | 9-8 | 18-0 | 11-4 | 0-17 |
| 39 | MH07-7483 | 0-20 | all S | 0-20 | 0-18 | 0-16 |
| 40 | M09-9826# | 18-2 | 19-1 | 18-2 | 0-18 | 0-20 |
| 41 | NC08-23323 | 0-17 | all S | 0-15 | 0-18 | 0-13 |
| 42 | NC08-23324 | 0-17 | all S | 0-19 | 0-16 | 0-20 |
| 43 | NC09-22422 (Fhb1) | 25-0 | 17-0 | 18-0 | 19-0 | 20-0 |
| 44 | NC09-20986 (Fhb1) | 21-0 | 20-0 | 22-0 | 20-0 | 16-0 |
| 45 | NC8355-4 (Fhb1) | 12-5 | all S | 10-5 | 0-20 | 0-20 |
| 46 | NC8452-2 | 0-19 | all S | 0-14 | 0-15 | 0-16 |
| 47 | VA09W-52 | 0-22 | all S | 0-18 | 17-2 | 0-23 |
| 48 | VA09W-73 | 0-19 | all S | 0-21 | 0-17 | 0-14 |
| 49 | VA09W-75 | 0-17 | all S | 0-20 | 0-18 | 0-17 |
| 50 | VA10W-42 | 19-2 | 14-3 | 16-1 | 0-19 | 0-18 |
| 51 | VA10W-140 | 0-22 | all S | 0-21 | 0-19 | 0-18 |

[1] Sue Cambron, USDA-ARS, Dept Entomology, Purdue Univ.

# Milling and Baking Quality Scores[1]

| | Cultivar/ Designation | MILLING QUALITY SCORE | | BAKING QUALITY SCORE | | SOFT. EQUIV. SCORE | | TEST WT. LB/BU | FLOUR YIELD % | | SOFT. EQUIV. % | | GRAIN HARD. (0-100) | GRAIN. PROT. % | FLOUR PROT. % | LACTIC ACID SRC(%) | | SUCRE. SRC % | | COOK. DIA. CM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 54 | D | 47 | E | 62 | C | 54.5 | 64.2 | | 55.3 | | 18.6 | 13.6 | 10.3 | 138.0 | s | 108.1 | | 17.3 | |
| 2 | COKER 9835 | 51 | D | 49 | E | 79 | B | 32.6 | 63.8 | | 61.4 | + | 30.1 | 13.1 | 9.9 | 136.5 | | 114.1 | q | 17.5 | |
| 3 | BESS | 63 | C | 69 | C | 56 | D | 58.1 | 66.1 | + | 53.2 | q | 22.1 | 11.9 | 9.0 | 118.8 | w | 98.1 | + | 17.9 | |
| 4 | JAMESTOWN | 54 | D | 51 | D | 64 | C | 57.5 | 64.4 | | 56.0 | | 35.3 | 12.7 | 9.6 | 147.1 | s | 108.1 | | 17.5 | |
| 5 | NC09-21916 | 71 | B | 57 | D | 77 | B | 57.8 | 67.8 | + | 60.7 | + | 26.7 | 12.3 | 9.6 | 165.1 | s | 108.4 | | 17.6 | |
| 6 | VA08W-613 | 68 | C | 47 | E | 63 | C | 59.0 | 67.1 | + | 55.7 | | 21.8 | 13.3 | 10.3 | 138.2 | s | 108.4 | | 17.3 | |
| 7 | M08-8036# | 62 | C | 47 | E | 54 | D | 58.3 | 65.8 | + | 52.5 | q | 30.5 | 14.4 | 10.7 | 145.4 | s | 104.3 | + | 17.2 | q |
| 8 | IL02-18228 | 50 | D | 58 | D | 52 | D | 57.5 | 63.6 | q | 51.7 | q | 35.5 | 12.4 | 9.7 | 139.5 | s | 100.3 | + | 17.5 | |
| 9 | ARS07-1214 | 71 | B | 6 | F | 21 | F | 55.8 | 67.7 | + | 40.6 | q | 30.2 | 13.3 | 11.9 | 140.3 | s | 112.3 | q | 15.9 | q |
| 10 | ARS09-173 | 80 | A | 17 | F | 14 | F | 59.4 | 69.6 | + | 38.1 | q | 28.2 | 11.5 | 11.0 | 129.2 | w | 106.4 | | 16.2 | q |
| 11 | ARS09-367 | 65 | C | 9 | F | 23 | F | 56.6 | 66.4 | + | 41.6 | q | 30.4 | 12.5 | 10.9 | 145.4 | s | 113.8 | q | 16.1 | q |
| 12 | ARS09-446 | 87 | A | 16 | F | 15 | F | 57.4 | 71.0 | + | 38.7 | q | 30.7 | 12.3 | 12.4 | 148.4 | s | 103.8 | + | 16.0 | q |
| 13 | ARS09-513 | 92 | A | 24 | F | 25 | F | 56.2 | 72.0 | + | 42.3 | q | 22.6 | 12.6 | 12.4 | 116.4 | w | 104.5 | | 16.4 | q |
| 14 | ARS09-595 | 70 | B | 5 | F | 25 | F | 56.2 | 67.6 | + | 42.1 | q | 33.8 | 13.1 | 13.4 | 153.5 | s | 110.6 | q | 15.7 | q |
| 15 | ARS09-643 | 75 | B | -20 | F | 8 | F | 57.1 | 68.6 | + | 36.4 | q | 32.2 | 12.1 | 11.9 | 147.1 | s | 122.2 | q | 15.2 | q |
| 16 | ARS09-724 | 74 | B | 33 | F | 32 | F | 57.8 | 68.4 | + | 44.5 | q | 30.1 | 12.6 | 11.3 | 122.2 | w | 103.9 | + | 16.7 | q |
| 17 | GA 051173W-S11 | 59 | D | 45 | E | 47 | E | 58.0 | 65.3 | | 49.9 | q | 19.5 | 13.1 | 9.7 | 129.8 | w | 105.5 | | 17.2 | |
| 18 | GA 051207-S19 | 64 | C | 50 | E | 66 | C | 55.4 | 66.3 | + | 56.8 | | 34.4 | 12.5 | 10.0 | 155.9 | s | 108.1 | | 17.4 | |
| 19 | GA 051207-S21 | 66 | C | 60 | D | 64 | C | 57.1 | 66.7 | + | 56.1 | | 33.8 | 12.1 | 9.7 | 147.4 | s | 103.0 | + | 17.6 | |
| 20 | GA 051173-S25 | 38 | F | 41 | E | 51 | D | 55.9 | 61.2 | q | 51.2 | q | 34.7 | 12.6 | 10.1 | 136.1 | | 108.3 | | 17.1 | q |
| 21 | GA 051173-S18 | 57 | D | 44 | E | 56 | D | 56.9 | 65.0 | | 53.2 | q | 19.6 | 14.2 | 10.6 | 156.6 | s | 106.5 | | 17.1 | q |
| 22 | GAMD08-27-E9-S13 | 58 | D | 44 | E | 51 | D | 57.4 | 65.0 | | 51.4 | q | 36.6 | 12.7 | 9.9 | 142.8 | s | 106.8 | | 17.2 | q |
| 23 | GAMD08-27-E9-S14 | 59 | D | 44 | E | 50 | E | 57.5 | 65.3 | | 50.9 | q | 34.3 | 12.7 | 10.0 | 144.3 | s | 105.8 | | 17.1 | q |
| 24 | GAMD08-27-E9-S15 | 66 | C | 49 | E | 51 | D | 57.3 | 66.6 | + | 51.5 | q | 34.9 | 12.6 | 9.8 | 145.9 | s | 104.3 | + | 17.3 | |
| 25 | LA'04039C-14-8 | 62 | C | 32 | F | 58 | D | 57.3 | 65.9 | + | 54.0 | q | 25.2 | 13.6 | 10.3 | 144.7 | s | 114.7 | q | 16.9 | q |
| 26 | LA'04039C-10-6 | 66 | C | 42 | E | 55 | D | 57.0 | 66.7 | + | 52.8 | q | 25.6 | 13.5 | 9.9 | 144.8 | s | 109.0 | | 17.2 | q |
| 27 | LA05102C-1-2 | 61 | C | 58 | D | 60 | D | 57.5 | 65.7 | + | 54.4 | | 28.8 | 12.8 | 9.7 | 128.9 | w | 102.9 | + | 17.6 | |
| 28 | LA05102C-8-8 | 69 | C | 53 | D | 49 | E | 58.2 | 67.3 | + | 50.7 | q | 27.4 | 13.0 | 10.2 | 124.0 | w | 101.3 | + | 17.4 | |
| 29 | LA05079D-55 | 58 | D | 53 | D | 72 | B | 55.2 | 65.1 | | 59.0 | + | 22.6 | 11.5 | 9.0 | 136.3 | | 111.6 | q | 17.7 | |
| 30 | LA05079F-P01 | 59 | D | 64 | C | 73 | B | 54.3 | 65.4 | | 59.4 | + | 23.7 | 11.5 | 8.9 | 115.9 | w | 107.3 | | 18.0 | + |
| 31 | LA05079F-P03 | 69 | C | 67 | C | 69 | C | 53.8 | 67.4 | + | 57.9 | | 26.8 | 11.7 | 9.0 | 124.1 | w | 103.7 | + | 18.0 | + |
| 32 | LA05145D-12 | 62 | C | 54 | D | 64 | C | 57.9 | 65.9 | + | 56.2 | | 36.2 | 13.1 | 10.2 | 138.2 | s | 105.3 | | 17.5 | |
| 33 | LA05145D-24 | 61 | C | 74 | B | 71 | B | 55.2 | 65.6 | + | 58.6 | + | 25.7 | 12.2 | 9.0 | 122.6 | w | 100.4 | + | 18.2 | + |
| 34 | MD03W61-11-2 | 61 | C | 54 | D | 64 | C | 57.6 | 65.7 | + | 56.2 | | 33.0 | 12.6 | 9.9 | 152.5 | s | 105.4 | | 17.5 | |
| 35 | MD03W61-11-3 | 60 | C | 57 | D | 59 | D | 57.2 | 65.6 | + | 54.3 | q | 30.7 | 13.0 | 10.3 | 147.2 | s | 101.7 | + | 17.5 | |
| 36 | UX0066-4-79 | 64 | C | 56 | D | 47 | E | 31.1 | 66.3 | + | 49.8 | q | 27.9 | 13.0 | 10.5 | 130.0 | w | 97.8 | + | 17.4 | |
| 37 | MD08-22-1-6-4 | 68 | C | 72 | B | 59 | D | 59.5 | 67.1 | + | 54.4 | q | 29.1 | 12.1 | 9.4 | 128.2 | w | 96.1 | + | 18.0 | + |
| 38 | MD08-26-H2-23 | 58 | D | 60 | D | 54 | D | 58.1 | 65.1 | | 52.5 | q | 33.1 | 12.6 | 9.5 | 141.4 | s | 100.2 | + | 17.6 | |
| 39 | MH07-7483 | 64 | C | 72 | B | 71 | B | 56.1 | 66.4 | + | 58.3 | | 30.2 | 12.1 | 9.1 | 120.6 | w | 100.9 | + | 18.1 | + |
| 40 | M09-9826# | 64 | C | 49 | E | 48 | E | 56.3 | 66.4 | + | 50.3 | q | 22.9 | 13.5 | 10.2 | 159.6 | s | 101.4 | + | 17.2 | q |
| 41 | NC08-23323 | 60 | C | 34 | F | 57 | D | 56.4 | 65.5 | | 53.5 | q | 30.9 | 12.8 | 10.3 | 149.7 | s | 112.8 | q | 17.0 | q |
| 42 | NC08-23324 | 68 | C | 42 | E | 58 | D | 56.9 | 67.0 | + | 54.0 | q | 28.4 | 12.6 | 9.9 | 141.1 | s | 110.6 | q | 17.2 | |
| 43 | NC09-22422 (Fhb1) | 44 | E | 38 | F | 61 | C | 58.2 | 62.3 | q | 54.8 | | 30.8 | 13.7 | 11.1 | 168.5 | s | 109.8 | | 16.9 | q |
| 44 | NC09-20986 (Fhb1) | 41 | E | 24 | F | 60 | C | 57.5 | 61.7 | q | 54.7 | | 30.1 | 14.0 | 11.2 | 166.6 | s | 117.1 | q | 16.6 | q |
| 45 | NC8355-4 (Fhb1) | 66 | C | 63 | C | 68 | C | 56.7 | 66.8 | + | 57.3 | | 25.7 | 13.0 | 9.8 | 153.8 | s | 102.2 | + | 17.7 | |
| 46 | NC8452-2 | 61 | C | 61 | C | 62 | C | 33.0 | 65.7 | + | 55.2 | | 29.3 | 11.8 | 9.4 | 137.8 | s | 102.6 | + | 17.7 | |
| 47 | VA09W-52 | 64 | C | 50 | D | 64 | C | 57.7 | 66.2 | + | 56.1 | | 24.6 | 13.3 | 9.5 | 136.9 | | 109.0 | | 17.5 | |
| 48 | VA09W-73 | 67 | C | 81 | A | 68 | C | 57.2 | 67.0 | + | 57.3 | | 31.7 | 11.5 | 8.8 | 124.5 | w | 95.9 | + | 18.3 | + |
| 49 | VA09W-75 | 68 | C | 74 | B | 71 | B | 58.5 | 67.1 | + | 58.5 | | 23.4 | 11.0 | 8.2 | 132.5 | w | 101.6 | + | 18.2 | + |
| 50 | VA10W-42 | 75 | B | 61 | C | 55 | D | 58.6 | 68.6 | + | 52.9 | q | 23.9 | 12.7 | 9.6 | 127.5 | w | 100.3 | + | 17.7 | |
| 51 | VA10W-140 | 77 | B | 67 | C | 55 | D | 60.2 | 68.9 | + | 52.8 | q | 23.4 | 12.1 | 9.3 | 143.5 | s | 96.9 | + | 17.7 | |
| | Mean | 64 | | 47 | | 54 | | 55.7 | 66.3 | | 52.5 | | 28.6 | 12.7 | 10.1 | 139.8 | | 105.8 | | 17.3 | |

**Footnotes:**

**'q' - questionable quality. Marked on lines greater than a standard deviation from the mean of the checks in a unpreferred level.**

**'+' - Above average quality marked on lines with greater than a standard deviation away from mean of the checks in a preferred level.**

**'s' - strong gluten. Greater than one standard deviation more than the mean of checks.**

[1] **Seed kindly supplied to USDA-ARS Wooster Quality Lab by Carl Griffey, Va Tech.**

# Means Across Locations 2011-12

| | Cultivar/ Designation | FHB Incidence | RANK | FHB Severity | RANK | FHB Index | RANK | FDK | RANK | ISK | RANK | DON | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 27 | 6 | 8 | 6 | 4 | 5 | 7 | 12 | 15 | 3 | 5 | 17 |
| 2 | COKER 9835 | 75 | 51 | 44 | 49 | 35 | 49 | 36 | 49 | 49 | 49 | 20 | 48 |
| 3 | BESS | 18 | 1 | 7 | 2 | 2 | 1 | 4 | 2 | 12 | 1 | 3 | 3 |
| 4 | JAMESTOWN | 38 | 19 | 11 | 14 | 7 | 17 | 6 | 9 | 22 | 14 | 3 | 3 |
| 5 | NC09-21916 | 29 | 9 | 14 | 24 | 5 | 8 | 5 | 5 | 21 | 10 | 3 | 3 |
| 6 | VA08W-613 | 41 | 28 | 9 | 7 | 4 | 5 | 6 | 9 | 21 | 10 | 4 | 10 |
| 7 | M08-8036# | 39 | 20 | 12 | 17 | 7 | 17 | 5 | 5 | 22 | 14 | 6 | 23 |
| 8 | IL02-18228 | 19 | 2 | 7 | 2 | 2 | 1 | 2 | 1 | 12 | 1 | 2 | 1 |
| 9 | ARS07-1214 | 69 | 50 | 45 | 50 | 45 | 50 | 38 | 50 | 55 | 50 | 29 | 51 |
| 10 | ARS09-173 | 41 | 28 | 22 | 40 | 12 | 35 | 11 | 29 | 28 | 35 | 10 | 40 |
| 11 | ARS09-367 | 62 | 49 | 49 | 51 | 45 | 50 | 45 | 51 | 59 | 51 | 27 | 50 |
| 12 | ARS09-446 | 52 | 46 | 28 | 44 | 22 | 45 | 21 | 45 | 43 | 46 | 12 | 43 |
| 13 | ARS09-513 | 52 | 46 | 29 | 48 | 18 | 41 | 24 | 47 | 43 | 46 | 9 | 36 |
| 14 | ARS09-595 | 49 | 42 | 28 | 44 | 18 | 41 | 18 | 43 | 37 | 41 | 6 | 23 |
| 15 | ARS09-643 | 39 | 20 | 24 | 42 | 14 | 39 | 15 | 40 | 35 | 39 | 12 | 43 |
| 16 | ARS09-724 | 39 | 20 | 17 | 28 | 11 | 33 | 7 | 12 | 27 | 27 | 11 | 42 |
| 17 | GA 051173W-S11 | 33 | 13 | 18 | 29 | 9 | 25 | 12 | 33 | 27 | 27 | 26 | 49 |
| 18 | GA 051207-S19 | 41 | 28 | 18 | 29 | 12 | 35 | 13 | 35 | 29 | 36 | 7 | 29 |
| 19 | GA 051207-S21 | 39 | 20 | 18 | 29 | 10 | 28 | 7 | 12 | 27 | 27 | 9 | 36 |
| 20 | GA 051173-S25 | 49 | 42 | 28 | 44 | 22 | 45 | 23 | 46 | 40 | 45 | 9 | 36 |
| 21 | GA 051173-S18 | 32 | 11 | 11 | 14 | 5 | 8 | 10 | 25 | 23 | 18 | 4 | 10 |
| 22 | GAMD08-27-E9-S13 | 41 | 28 | 13 | 22 | 8 | 21 | 10 | 25 | 26 | 26 | 4 | 10 |
| 23 | GAMD08-27-E9-S14 | 41 | 28 | 9 | 7 | 6 | 13 | 8 | 18 | 22 | 14 | 5 | 17 |
| 24 | GAMD08-27-E9-S15 | 39 | 20 | 12 | 17 | 8 | 21 | 9 | 21 | 24 | 22 | 4 | 10 |
| 25 | LA'04039C-14-8 | 36 | 16 | 10 | 10 | 8 | 21 | 5 | 5 | 23 | 18 | 5 | 17 |
| 26 | LA'04039C-10-6 | 35 | 14 | 10 | 10 | 6 | 13 | 7 | 12 | 21 | 10 | 6 | 23 |
| 27 | LA05102C-1-2 | 27 | 6 | 11 | 14 | 7 | 17 | 4 | 2 | 21 | 10 | 3 | 3 |
| 28 | LA05102C-8-8 | 28 | 8 | 7 | 2 | 4 | 5 | 4 | 2 | 19 | 6 | 4 | 10 |
| 29 | LA05079D-55 | 48 | 41 | 24 | 42 | 25 | 48 | 16 | 42 | 45 | 48 | 9 | 36 |
| 30 | LA05079F-P01 | 46 | 39 | 20 | 35 | 18 | 41 | 15 | 40 | 38 | 43 | 5 | 17 |
| 31 | LA05079F-P03 | 42 | 36 | 16 | 27 | 10 | 28 | 14 | 38 | 27 | 27 | 8 | 34 |
| 32 | LA05145D-12 | 49 | 42 | 21 | 38 | 16 | 40 | 14 | 38 | 36 | 40 | 6 | 23 |
| 33 | LA05145D-24 | 56 | 48 | 28 | 44 | 23 | 47 | 25 | 48 | 38 | 43 | 13 | 46 |
| 34 | MD03W61-11-2 | 39 | 20 | 20 | 35 | 13 | 37 | 12 | 33 | 32 | 38 | 7 | 29 |
| 35 | MD03W61-11-3 | 43 | 37 | 14 | 24 | 10 | 28 | 8 | 18 | 27 | 27 | 8 | 34 |
| 36 | UX0066-4-79 | 37 | 17 | 12 | 17 | 6 | 13 | 9 | 21 | 19 | 6 | 4 | 10 |
| 37 | MD08-22-1-6-4 | 22 | 3 | 6 | 1 | 2 | 1 | 7 | 12 | 17 | 5 | 2 | 1 |
| 38 | MD08-26-H2-23 | 31 | 10 | 10 | 10 | 5 | 8 | 6 | 9 | 20 | 9 | 3 | 3 |
| 39 | MH07-7483 | 51 | 45 | 21 | 38 | 19 | 44 | 20 | 44 | 37 | 41 | 12 | 43 |
| 40 | M09-9826# | 35 | 14 | 12 | 17 | 6 | 13 | 13 | 35 | 25 | 23 | 6 | 23 |
| 41 | NC08-23323 | 39 | 20 | 20 | 35 | 10 | 28 | 8 | 18 | 25 | 23 | 10 | 40 |
| 42 | NC08-23324 | 46 | 39 | 18 | 29 | 9 | 25 | 11 | 29 | 27 | 27 | 17 | 47 |
| 43 | NC09-22422 (Fhb1) | 32 | 11 | 10 | 10 | 5 | 8 | 9 | 21 | 23 | 18 | 4 | 10 |
| 44 | NC09-20986 (Fhb1) | 26 | 4 | 7 | 2 | 3 | 4 | 7 | 12 | 16 | 4 | 3 | 3 |
| 45 | NC8355-4 (Fhb1) | 26 | 4 | 9 | 7 | 5 | 8 | 10 | 25 | 19 | 6 | 3 | 3 |
| 46 | NC8452-2 | 41 | 28 | 12 | 17 | 7 | 17 | 11 | 29 | 23 | 18 | 6 | 23 |
| 47 | VA09W-52 | 44 | 38 | 18 | 29 | 10 | 28 | 13 | 35 | 29 | 36 | 5 | 17 |
| 48 | VA09W-73 | 40 | 27 | 23 | 41 | 13 | 37 | 11 | 29 | 27 | 27 | 7 | 29 |
| 49 | VA09W-75 | 37 | 17 | 14 | 24 | 8 | 21 | 5 | 5 | 22 | 14 | 7 | 29 |
| 50 | VA10W-42 | 41 | 28 | 13 | 22 | 9 | 25 | 9 | 21 | 25 | 23 | 7 | 29 |
| 51 | VA10W-140 | 41 | 28 | 19 | 34 | 11 | 33 | 10 | 25 | 27 | 27 | 5 | 17 |
| | Mean | 41 | | 17 | | 12 | | 12 | | 28 | | 8 | |
| | LSD (0.05) | 26 | | 19 | | 16 | | 15 | | 15 | | 15 | |
| | CV% | 32.2 | | 56.5 | | 71.4 | | 59.9 | | 27.6 | | 96.1 | |

# Means Across Locations 2011 - 2012

| | Cultivar/ Designation | Heading Date | RANK | Plant Height | RANK | Hessian Fly Biotype L | MILLING QUALITY SCORE | | BAKING QUALITY SCORE | | SOFT. EQUIV. SCORE | | Stagon. nodorum % F'VILLE AR | Stripe Rust % N'PORT AR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 108 | 9 | 31 | 13 | 0-15 | 54 | D | 47 | E | 62 | C | 7 | 68 |
| 2 | COKER 9835 | 110 | 19 | 30 | 15 | 0-13 | 51 | D | 49 | E | 79 | B | 15 | 78 |
| 3 | BESS | 113 | 38 | 35 | 43 | 0-14 | 63 | C | 69 | C | 56 | D | 30 | 17 |
| 4 | JAMESTOWN | 106 | 3 | 31 | 8 | 0-16 | 54 | D | 51 | D | 64 | C | 15 | 0 |
| 5 | NC09-21916 | 113 | 38 | 35 | 40 | 0-3 | 71 | B | 57 | D | 77 | B | 2 | 12 |
| 6 | VA08W-613 | 108 | 9 | 32 | 18 | 0-18 | 68 | C | 47 | E | 63 | C | 2 | 37 |
| 7 | M08-8036# | 111 | 26 | 33 | 28 | 0-20 | 62 | C | 47 | E | 54 | D | 2 | 37 |
| 8 | IL02-18228 | 116 | 43 | 37 | 49 | 0-16 | 50 | D | 58 | D | 52 | D | 15 | 7 |
| 9 | ARS07-1214 | 116 | 43 | 33 | 30 | 0-16 | 71 | B | 6 | F | 21 | F | 15 | 43 |
| 10 | ARS09-173 | 106 | 3 | 30 | 5 | 21-0 | 80 | A | 17 | F | 14 | F | 15 | 1 |
| 11 | ARS09-367 | 113 | 38 | 31 | 14 | 0-17 | 65 | C | 9 | F | 23 | F | 30 | 48 |
| 12 | ARS09-446 | 108 | 9 | 34 | 32 | 0-14 | 87 | A | 16 | F | 15 | F | 30 | 25 |
| 13 | ARS09-513 | 110 | 19 | 33 | 21 | 0-14 | 92 | A | 24 | F | 25 | F | 15 | 68 |
| 14 | ARS09-595 | 107 | 6 | 34 | 22 | 0-17 | 70 | B | 5 | F | 25 | F | 7 | 57 |
| 15 | ARS09-643 | 106 | 3 | 24 | 1 | 0-15 | 75 | B | -20 | F | 8 | F | 15 | 0 |
| 16 | ARS09-724 | 110 | 19 | 37 | 47 | 0-14 | 74 | B | 33 | F | 32 | F | 7 | 1 |
| 17 | GA 051173W-S11 | 112 | 33 | 40 | 51 | 15-3 | 59 | D | 45 | E | 47 | E | 15 | 2 |
| 18 | GA 051207-S19 | 111 | 26 | 34 | 38 | 14-0 | 64 | C | 50 | E | 66 | C | 15 | 15 |
| 19 | GA 051207-S21 | 110 | 19 | 35 | 44 | 17-0 | 66 | C | 60 | D | 64 | C | 15 | 12 |
| 20 | GA 051173-S25 | 112 | 33 | 34 | 37 | 13-2 | 38 | F | 41 | E | 51 | D | 15 | 0 |
| 21 | GA 051173-S18 | 105 | 1 | 30 | 9 | 22-0 | 57 | D | 44 | E | 56 | D | 7 | 1 |
| 22 | GAMD08-27-E9-S13 | 121 | 49 | 35 | 46 | 0-13 | 58 | D | 44 | E | 51 | D | 2 | 20 |
| 23 | GAMD08-27-E9-S14 | 121 | 49 | 34 | 35 | 0-18 | 59 | D | 44 | E | 50 | E | 2 | 1 |
| 24 | GAMD08-27-E9-S15 | 121 | 49 | 34 | 25 | 0-16 | 66 | C | 49 | E | 51 | D | 7 | 15 |
| 25 | LA'04039C-14-8 | 107 | 6 | 31 | 6 | 0-16 | 62 | C | 32 | F | 58 | D | 2 | 57 |
| 26 | LA'04039C-10-6 | 110 | 19 | 36 | 45 | 0-17 | 66 | C | 42 | E | 55 | D | 2 | 25 |
| 27 | LA05102C-1-2 | 105 | 1 | 36 | 33 | 0-15 | 61 | C | 58 | D | 60 | D | 7 | 1 |
| 28 | LA05102C-8-8 | 108 | 9 | 37 | 42 | 0-16 | 69 | C | 53 | D | 49 | E | 30 | 1 |
| 29 | LA05079D-55 | 109 | 17 | 32 | 17 | 0-18 | 58 | D | 53 | D | 72 | B | 15 | 0 |
| 30 | LA05079F-P01 | 108 | 9 | 33 | 23 | 0-16 | 59 | D | 64 | C | 73 | B | 15 | 0 |
| 31 | LA05079F-P03 | 110 | 19 | 29 | 2 | 0-16 | 69 | C | 67 | C | 69 | C | 15 | 0 |
| 32 | LA05145D-12 | 107 | 6 | 30 | 7 | 0-17 | 62 | C | 54 | D | 64 | C | 15 | 2 |
| 33 | LA05145D-24 | 116 | 43 | 39 | 50 | 0-17 | 61 | C | 74 | B | 71 | B | 7 | 70 |
| 34 | MD03W61-11-2 | 111 | 26 | 30 | 10 | 0-15 | 61 | C | 54 | D | 64 | C | 7 | 0 |
| 35 | MD03W61-11-3 | 112 | 33 | 32 | 26 | 0-17 | 60 | C | 57 | D | 59 | D | 2 | 0 |
| 36 | UX0066-4-79 | 111 | 26 | 31 | 19 | 0-18 | 64 | C | 56 | D | 47 | E | 15 | 57 |
| 37 | MD08-22-1-6-4 | 118 | 48 | 34 | 39 | 0-19 | 68 | C | 72 | B | 59 | D | 2 | 80 |
| 38 | MD08-26-H2-23 | 111 | 26 | 35 | 41 | 0-17 | 58 | D | 60 | D | 54 | D | 15 | 12 |
| 39 | MH07-7483 | 116 | 43 | 36 | 48 | 0-16 | 64 | C | 72 | B | 71 | B | 30 | 0 |
| 40 | M09-9826# | 108 | 9 | 30 | 4 | 0-20 | 64 | C | 49 | E | 48 | E | 7 | 78 |
| 41 | NC08-23323 | 111 | 26 | 32 | 20 | 0-13 | 60 | C | 34 | F | 57 | D | 7 | 89 |
| 42 | NC08-23324 | 112 | 33 | 33 | 31 | 0-20 | 68 | C | 42 | E | 58 | D | 7 | 94 |
| 43 | NC09-22422 (Fhb1) | 111 | 26 | 31 | 11 | 20-0 | 44 | E | 38 | F | 61 | C | 7 | 20 |
| 44 | NC09-20986 (Fhb1) | 110 | 19 | 31 | 16 | 16-0 | 41 | E | 24 | F | 60 | C | 7 | 10 |
| 45 | NC8355-4 (Fhb1) | 108 | 9 | 30 | 3 | 0-20 | 66 | C | 63 | C | 68 | C | 7 | 6 |
| 46 | NC8452-2 | 116 | 43 | 33 | 27 | 0-16 | 61 | C | 61 | C | 62 | C | 7 | 11 |
| 47 | VA09W-52 | 109 | 17 | 31 | 12 | 0-23 | 64 | C | 50 | D | 64 | C | 30 | 7 |
| 48 | VA09W-73 | 113 | 38 | 33 | 29 | 0-14 | 67 | C | 81 | A | 68 | C | 7 | 0 |
| 49 | VA09W-75 | 108 | 9 | 34 | 34 | 0-17 | 68 | C | 74 | B | 71 | B | 2 | 3 |
| 50 | VA10W-42 | 112 | 33 | 34 | 36 | 0-18 | 75 | B | 61 | C | 55 | D | 2 | 0 |
| 51 | VA10W-140 | 113 | 38 | 33 | 24 | 0-18 | 77 | B | 67 | C | 55 | D | 15 | 71 |
| | Mean | 112 | | 33 | | . | 64 | | 47 | | 54 | | 11 | 25 |
| | LSD (0.05) | 6 | | 6 | | . | . | . | . | . | . | | . | . |
| | CV% | 2.5 | | 10.0 | | . | . | . | . | . | . | | . | . |

# Means Across 2011 and 2012

| | Cultivar/ Designation | FHB Incidence | RANK | FHB Severity | RANK | FHB Index | RANK | FDK | RANK | ISK | RANK | DON | RANK | Heading Date | Plant Height | Milling Quality | Baking Quality | Soft Equiv. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | days | in | *Score* | *Score* | *Score* |
| 1 | ERNIE | 37 | *3* | 16 | *4* | 9 | *4* | 12 | *4* | 25 | *3* | 7 | *6* | 116 | 31 | 57 | 59 | 64 |
| 2 | COKER 9835 | 75 | *7* | 50 | *7* | 39 | *7* | 37 | *7* | 53 | *7* | 21 | *7* | 119 | 30 | 57 | 51 | 81 |
| 3 | BESS | 30 | *2* | 13 | *2* | 7 | *2* | 6 | *2* | 21 | *2* | 5 | *2* | 119 | 35 | 64 | 58 | 56 |
| 4 | JAMESTOWN | 43 | *5* | 19 | *6* | 11 | *6* | 11 | *5* | 29 | *6* | 5 | *2* | 115 | 30 | 57 | 49 | 65 |
| 5 | IL02-18228 | 26 | *1* | 12 | *1* | 4 | *1* | 4 | *1* | 17 | *1* | 3 | *1* | 120 | 36 | 65 | 58 | 45 |
| 6 | M08-8036# | 40 | *4* | 15 | *3* | 8 | *3* | 10 | *3* | 25 | *3* | 5 | *2* | 118 | 33 | 68 | 58 | 56 |
| 7 | VA08W-613 | 45 | *6* | 19 | *5* | 10 | *5* | 11 | *5* | 27 | *5* | 6 | *5* | 117 | 32 | 54 | 52 | 63 |
| | Mean | 42 | | 21 | | 12 | | 13 | | 28 | | 7 | | 117 | 33 | 60 | 55 | 61 |
| | LSD (0.05) | 15 | | 8 | | 6 | | 6 | | 8 | | 3 | | ns | 1 | ns | ns | 10 |
| | CV% | 14.6 | | 14.9 | | 21.2 | | 19.4 | | 11.9 | | 16.8 | | 2.2 | 103.0 | 20.5 | 19.8 | 6.6 |