# SOUTHERN UNIFORM WINTER WHEAT SCAB NURSERY

# 2011 NURSERY REPORT

J. P. Murphy
R. A. Navarro

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This Report is available on the Web at http://scabusa.org/,
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## TABLE OF CONTENTS

## 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, Shuyu Liu, Patty Gundrum.
- 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, Padgett, Growth, Arceneaux, Purvis and Strickland.
- 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**
Cooperator: Ed Souza
USDA-ARS Soft Wheat Quality Laboratory
- Milling and Baking Quality evaluations.

**A happy, and wet, crew after setting up misting system at Kinston, NC, March, 2011. Rene Navarro, George Van Esbroeck, Margaret Worthington, and Peter Maloney.**

**Impact of *Fhb1 (left)* on disease development in inoculated / misted nursery, Kinston, NC 2011**

**Fusarium damaged kernels harvested from susceptible RIL in the AGS 2000 x NC-Neuse mapping population, Kinston NC 2011**

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

# Entry List and Pedigrees, 2011 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 | ARS04-1267 | *KS98HW151-6/KS00HW120* | Marshall | 2009-10 |
| 6 | M08*8005# | *BRANSON/M99*3098* | Fogleman | 2009-10 |
| 7 | MD03W61-09-1 | *Pio25R42/Chesapeake* | Costa | 2009-10 |
| 8 | VA09W-641 | *Ernie / NC96-13374 // McCormick* | Griffey | 2009-10 |
| 9 | ARGE04-1163-44 | *Freedom/Catbird//Mason/Catbird* | Milus | 2010-11 |
| 10 | ARGE04-1163-67 | *Freedom/Catbird//Mason/Catbird* | Milus | 2010-11 |
| 11 | ARS07-0245 | *FL9567/TX99D4628* | Marshall | 2010-11 |
| 12 | ARS07-0262 | *FL95A331/Terrenzio17077-2* | Marshall | 2010-11 |
| 13 | ARS07-0404 | *GA951079-3-5/NC96BGTD3* | Marshall | 2010-11 |
| 14 | ARS07-0609 | *GA961662-1-7/B980582* | Marshall | 2010-11 |
| 15 | ARS07-1227 | *McCormick/Trego* | Marshall | 2010-11 |
| 16 | ARS07-1243 | *NC00-14622/2137* | Marshall | 2010-11 |
| 17 | ARS08-0114 | *TX99D4441/TAM303* | Marshall | 2010-11 |
| 18 | B050154 | *HOPEWELL/BL920520* | Hancock | 2010-11 |
| 19 | B070495 | *PIO 26R24/BL940026* | Hancock | 2010-11 |
| 20 | B070678 | *D97*6940/PATTON* | Hancock | 2010-11 |
| 21 | B070738 | *D99-5003/NATCHEZ* | Hancock | 2010-11 |
| 22 | GA04496-S6 | *VA01W-476/AGS 2485/3/AGS 2000//04400* | Johnson | 2010-11 |
| 23 | GA041273-S14 | *AGS 2010/Truman* | Johnson | 2010-11 |
| 24 | GA041273-S15 | *AGS 2010/Truman* | Johnson | 2010-11 |
| 25 | GA04496-S5 | *VA01W-476/AGS 2485/3/AGS 2000//04400* | Johnson | 2010-11 |
| 26 | GA04496-S8 | *VA01W-476/AGS 2485/3/AGS 2000//04400* | Johnson | 2010-11 |
| 27 | GA051173W-S11 | *Truman/AGS 2010* | Johnson | 2010-11 |
| 28 | GA051173W-S12 | *Truman/AGS 2010* | Johnson | 2010-11 |
| 29 | GA051173W-S13 | *Truman/AGS 2010* | Johnson | 2010-11 |
| 30 | IL02-18228 | *Pio25R26/ IL9634-24437 (IL90-4813/IL85-3132//Ning 7840) // IL95-4162* | Kolb | 2010-11 |
| 31 | LA03012E-50 | *LA92283C64-1/ARLA97-1047-4-2* | Harrison | 2010-11 |
| 32 | LA03130E66 | *ARGE97-1033-14-2(MASON/CATBIRD)/LA9415D104-5-2(PU8686A1-8/CK9134//PIO2684)* | Milus / Harrison | 2010-11 |
| 33 | LA03130E68 | *ARGE97-1033-14-2(MASON/CATBIRD)/LA9415D104-5-2(PU8686A1-8/CK9134//PIO2684)* | Milus | 2010-11 |
| 34 | LA03131E-1 | *ARGE97-1033-14-2/95361CA8-2-2* | Milus | 2010-11 |
| 35 | LA03131E-7 | *ARGE97-1033-14-2/95361CA8-2-2* | Milus / Harrison | 2010-11 |
| 36 | LA03135E-39 | *ARGM97-1047-4-2/NC98-26192 (5AE)* | Harrison | 2010-11 |
| 37 | LA03136E71 | *ARLA97-1047-4-2(P2684/3/N7840//PARULA/VEERY#6)/LA95125BUB73-1* | Harrison | 2010-11 |
| 38 | LA06148C-P30 | *JAMESTOWN/LA95135* | Harrison | 2010-11 |
| 39 | M05-1526 | *FFR502/P931765C-H21* | Fogleman | 2010-11 |
| 40 | M08-8036#__ | *COKER 9511/BRANSON* | Fogleman | 2010-11 |
| 41 | MD03W61-09-7 | *Pio25R42/Chesapeake* | Costa | 2010-11 |
| 42 | MD03W61-10-2 | *Pio25R42/Chesapeake* | Costa | 2010-11 |
| 43 | MD03W665-10-5 | *USG3209/TRIBUTE//CHESAPEAKE* | Costa | 2010-11 |
| 44 | MD03W69-15 | *McCormick/Pio25R42* | Costa | 2010-11 |
| 45 | NC05-15-99 | *NC99-13022*2 / PI 382167* | Murphy | 2010-11 |
| 46 | NC05-39-314 | *NC99-13022*2 / PI 611899 (Sando)* | Murphy | 2010-11 |
| 47 | NC05-39-337 | *NC99-13022*2 / PI 611899 (Sando)* | Murphy | 2010-11 |
| 48 | NC05-39-349 | *NC99-13022*2 / PI 611899 (Sando)* | Murphy | 2010-11 |
| 49 | NC05-39-354 | *NC99-13022*2 / PI 611899 (Sando)* | Murphy | 2010-11 |
| 50 | NC05-39-370 | *NC99-13022*2 / PI 611899 (Sando)* | Murphy | 2010-11 |
| 51 | NC05-39-380 | *NC99-13022*2 / PI 611899 (Sando)* | Murphy | 2010-11 |
| 52 | NC06-16-26-988 | *Frontana / *2 NC99-13022 // NC-Neuse*3 / LDN(3ADIC)* | Murphy | 2010-11 |
| 53 | NC99-13022 | *Susceptible Recurrent Parent* | Murphy | 2010-11 |
| 54 | VA05W-251 | *VA98W-130 // VA96W-348 / Pioneer 26R61* | Griffey | 2010-11 |
| 55 | VA08W-176 | *KY96C-0079-5 / McCormick* | Griffey | 2010-11 |
| 56 | VA08W-193 | *AGS2000 / USG 3706 (VA98W-706) // Dominion* | Griffey | 2010-11 |
| 57 | VA08W-294 | *SS520 / VA99W-188 // Tribute* | Griffey | 2010-11 |
| 58 | VA08W-613 | *Freedom / Neuse"S" // VA98W-688* | Griffey | 2010-11 |
| 59 | VA09W-623 | *NC96-13374 / Ceruga5 // McCormick"S"* | Griffey | 2010-11 |
| 60 | VA09W-656 | *Neuse / VA99W-200 // McCormick* | Griffey | 2010-11 |

# FHB Incidence (1-100)

| | CULTIVAR/ DESIGNATION | KINSTON NC | S'BURY MD | B'BURG VA | URBANA IL | B'KTON IN | LEX'TON KY | GRIFFiN GA | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 100 | 25 | 5 | 93 | 25 | 70 | 13 | 47 | *18* |
| 2 | COKER 9835 | 100 | 20 | 35 | 100 | 73 | 93 | 100 | 74 | *60* |
| 3 | BESS | 100 | 10 | 5 | 95 | 7 | 60 | 16 | 42 | *7* |
| 4 | JAMESTOWN | 100 | 15 | 5 | 100 | 33 | 65 | 14 | 47 | *18* |
| 5 | ARS04-1267 | 100 | 10 | 5 | 100 | 23 | 53 | 33 | 46 | *15* |
| 6 | M08*8005# | 100 | 35 | 8 | 83 | 5 | 28 | 23 | 40 | *6* |
| 7 | MD03W61-09-1 | 98 | 30 | 5 | 100 | 20 | 45 | 83 | 54 | *40* |
| 8 | VA09W-641 | 100 | 25 | 5 | 95 | 15 | 55 | 17 | 45 | *14* |
| 9 | ARGE04-1163-44 | 98 | 15 | 5 | 82 | 5 | 50 | 18 | 39 | *5* |
| 10 | ARGE04-1163-67 | 85 | 5 | 5 | 82 | 10 | 53 | 16 | 36 | *2* |
| 11 | ARS07-0245 | 100 | 35 | 30 | 100 | 40 | 80 | 18 | 58 | *48* |
| 12 | ARS07-0262 | 100 | 15 | 5 | 100 | 58 | 63 | . | 55 | *43* |
| 13 | ARS07-0404 | 100 | 35 | 8 | 100 | 43 | 83 | 35 | 58 | *48* |
| 14 | ARS07-0609 | 100 | 35 | 15 | 100 | 10 | 78 | 50 | 55 | *43* |
| 15 | ARS07-1227 | 100 | 25 | 10 | 100 | 18 | 83 | 46 | 54 | *40* |
| 16 | ARS07-1243 | 100 | 10 | 5 | 100 | 55 | 90 | 91 | 64 | *57* |
| 17 | ARS08-0114 | 100 | 40 | 5 | 100 | 85 | 58 | 41 | 61 | *53* |
| 18 | B050154 | 100 | 25 | 5 | 100 | 15 | 75 | 53 | 53 | *37* |
| 19 | B070495 | 100 | 20 | 5 | 98 | 23 | 63 | 18 | 47 | *18* |
| 20 | B070678 | 95 | 18 | 5 | 100 | 28 | 75 | 50 | 53 | *37* |
| 21 | B070738 | 100 | 30 | 5 | 100 | 28 | 58 | 12 | 47 | *18* |
| 22 | GA04496-S6 | . | 25 | 5 | 85 | 10 | 90 | . | 50 | *29* |
| 23 | GA041273-S14 | 100 | 30 | 23 | 100 | 55 | 75 | 45 | 61 | *53* |
| 24 | GA041273-S15 | 100 | 25 | 5 | 100 | 43 | 50 | 31 | 50 | *29* |
| 25 | GA04496-S5 | 100 | 20 | 13 | 98 | 40 | 88 | 88 | 64 | *57* |
| 26 | GA04496-S8 | 95 | 15 | 8 | 97 | 10 | 93 | 13 | 47 | *18* |
| 27 | GA051173W-S11 | 100 | 15 | 5 | 100 | 10 | 78 | 25 | 48 | *25* |
| 28 | GA051173W-S12 | 100 | 25 | 5 | 100 | 5 | 58 | 8 | 43 | *10* |
| 29 | GA051173W-S13 | 100 | 10 | 5 | 100 | 15 | 53 | 20 | 43 | *10* |
| 30 | IL02-18228 | 95 | 8 | 5 | 58 | 1 | 50 | 9 | 32 | *1* |
| 31 | LA03012E-50 | 100 | 13 | 13 | 100 | 13 | 83 | 29 | 50 | *29* |
| 32 | LA03130E66 | 100 | 23 | 8 | 97 | 5 | 45 | 19 | 42 | *7* |
| 33 | LA03130E68 | 100 | 25 | 8 | 85 | 8 | 28 | 11 | 38 | *4* |
| 34 | LA03131E-1 | 100 | 18 | 5 | 95 | 18 | 70 | 100 | 58 | *48* |
| 35 | LA03131E-7 | 100 | 15 | 5 | 97 | 15 | 25 | 85 | 49 | *27* |
| 36 | LA03135E-39 | 100 | 30 | 8 | 100 | 40 | 88 | 29 | 56 | *45* |
| 37 | LA03136E71 | 100 | 30 | 5 | 97 | 15 | 88 | 40 | 53 | *37* |
| 38 | LA06148C-P30 | 100 | 20 | 5 | 100 | 53 | 70 | . | 56 | *45* |
| 39 | M05-1526 | 100 | 15 | 5 | 97 | 45 | 73 | 90 | 61 | *53* |
| 40 | M08-8036#__ | 98 | 20 | 5 | 92 | 7 | 53 | 21 | 42 | *7* |
| 41 | MD03W61-09-7 | 95 | 20 | 5 | 98 | 5 | 88 | 100 | 59 | *51* |
| 42 | MD03W61-10-2 | 100 | 15 | 5 | 87 | 5 | 93 | 5 | 44 | *12* |
| 43 | MD03W665-10-5 | 100 | 23 | 5 | 100 | 33 | 85 | 87 | 62 | *56* |
| 44 | MD03W69-15 | 100 | 8 | 5 | 95 | 10 | 75 | 55 | 50 | *29* |
| 45 | NC05-15-99 | 85 | 8 | 5 | 97 | 5 | 40 | 10 | 36 | *2* |
| 46 | NC05-39-314 | 100 | 25 | 8 | 97 | 25 | 43 | 12 | 44 | *12* |
| 47 | NC05-39-337 | 100 | 25 | 15 | 93 | 15 | 38 | 44 | 47 | *18* |
| 48 | NC05-39-349 | 100 | 25 | 15 | 100 | 35 | 53 | 51 | 54 | *40* |
| 49 | NC05-39-354 | 100 | 25 | 10 | 97 | 25 | 68 | 73 | 57 | *47* |
| 50 | NC05-39-370 | 100 | 35 | 8 | 95 | 35 | 45 | 6 | 46 | *15* |
| 51 | NC05-39-380 | 100 | 50 | 5 | 100 | 23 | 35 | 14 | 47 | *18* |
| 52 | NC06-16-26-988 | 100 | 25 | 5 | 100 | 7 | 93 | 19 | 50 | *29* |
| 53 | NC99-13022 | 100 | 40 | 18 | 100 | 53 | 88 | 90 | 70 | *59* |
| 54 | VA05W-251 | 100 | 35 | 5 | 100 | 15 | 78 | 34 | 52 | *35* |
| 55 | VA08W-176 | 95 | 15 | 13 | 98 | 5 | 83 | 25 | 48 | *25* |
| 56 | VA08W-193 | 100 | 20 | 10 | 100 | 25 | 80 | 19 | 51 | *34* |
| 57 | VA08W-294 | 95 | 20 | 5 | 97 | 33 | 78 | 83 | 59 | *51* |
| 58 | VA08W-613 | 100 | 15 | 5 | 92 | 11 | 80 | 38 | 49 | *27* |
| 59 | VA09W-623 | 100 | 15 | 5 | 92 | 20 | 65 | 29 | 46 | *15* |
| 60 | VA09W-656 | 95 | 20 | 5 | 100 | 40 | 70 | 34 | 52 | *35* |
| | | | | | | | | | 0 | *0* |
| | Mean | 99 | 22 | 8 | 96 | 24 | 67 | 39 | 51 | 0 |
| | LSD (0.05) | ns | 27 | 6 | 8 | 26 | 27 | . | 28 | 0 |
| | CV% | . | 61.0 | 45.0 | 5.2 | 53.3 | 20.1 | . | 28.0 | 0.0 |

# FHB Severity ( 1-100)

| | CULTIVAR/ DESIGNATION | GRIF'N GA | RANK | F'VILLE AR | RANK | NEWPORT AR | RANK | SZEGED[1] HUN | RANK | S'BURY MD | RANK | B'BURG VA | RANK | URBANA IL | RANK | KINSTON NC | RANK | LEX'TON KY | RANK | B'KTON IN | RANK | FUN'LEA[1] ROM | RANK | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 5 | 1 | 8 | 9 | 42 | 13 | 31 | 14 | 15 | 24 | 6 | 17 | 40 | 18 | 20 | 11 | 54 | 39 | 13 | 16 | 23 | 32 | 23 | 10 |
| 2 | COKER 9835 | 90 | 55 | 30 | 56 | 77 | 48 | 51 | 51 | 35 | 60 | 41 | 60 | 86 | 58 | 80 | 55 | 55 | 43 | 40 | 42 | 32 | 46 | 56 | 59 |
| 3 | BESS | 5 | 1 | 7 | 7 | 30 | 4 | 34 | 20 | 15 | 24 | 3 | 1 | 46 | 24 | 23 | 14 | 35 | 9 | 5 | 2 | 16 | 14 | 20 | 8 |
| 4 | JAMESTOWN | 10 | 15 | 8 | 9 | 53 | 31 | 43 | 35 | 10 | 3 | 7 | 26 | 61 | 43 | 22 | 13 | 36 | 10 | 43 | 46 | 15 | 12 | 28 | 24 |
| 5 | ARS04-1267 | 20 | 26 | 10 | 14 | 47 | 24 | 24 | 6 | 15 | 24 | 6 | 17 | 47 | 26 | 43 | 34 | 50 | 27 | 18 | 20 | 21 | 24 | 27 | 20 |
| 6 | M08*8005# | 15 | 22 | 7 | 7 | 43 | 17 | 35 | 25 | 20 | 40 | 13 | 42 | 41 | 20 | 35 | 27 | 30 | 3 | 15 | 19 | 10 | 1 | 24 | 11 |
| 7 | MD03W61-09-1 | 70 | 52 | 5 | 4 | 43 | 17 | 22 | 5 | 20 | 40 | 7 | 26 | 30 | 8 | 11 | 3 | 39 | 12 | 7 | 11 | 11 | 3 | 24 | 11 |
| 8 | VA09W-641 | 5 | 1 | 8 | 9 | 45 | 22 | 31 | 14 | 20 | 40 | 6 | 17 | 39 | 17 | 40 | 31 | 43 | 17 | 13 | 16 | 21 | 24 | 25 | 14 |
| 9 | ARGE04-1163-44 | 15 | 22 | 3 | 3 | 15 | 2 | 21 | 3 | 10 | 3 | 5 | 11 | 19 | 2 | 11 | 4 | 30 | 3 | 5 | 2 | 22 | 30 | 14 | 2 |
| 10 | ARGE04-1163-67 | 5 | 1 | 2 | 1 | 13 | 1 | 6 | 1 | 5 | 1 | 3 | 1 | 19 | 2 | 7 | 1 | 21 | 1 | 3 | 1 | 14 | 8 | 9 | 1 |
| 11 | ARS07-0245 | 10 | 15 | 33 | 57 | 100 | 57 | 56 | 56 | 15 | 24 | 39 | 59 | 86 | 58 | 90 | 56 | 59 | 48 | 45 | 47 | 28 | 40 | 51 | 56 |
| 12 | ARS07-0262 | . | . | 23 | 48 | 72 | 44 | 43 | 35 | 15 | 24 | 4 | 4 | 83 | 53 | 63 | 47 | 61 | 50 | 58 | 58 | 28 | 40 | 45 | 53 |
| 13 | ARS07-0404 | 30 | 34 | 20 | 44 | 72 | 44 | 54 | 53 | 20 | 40 | 10 | 39 | 66 | 46 | 65 | 49 | 67 | 55 | 28 | 28 | 19 | 21 | 41 | 47 |
| 14 | ARS07-0609 | 30 | 34 | 25 | 51 | 85 | 50 | 59 | 57 | 25 | 51 | 18 | 49 | 85 | 56 | 63 | 48 | 55 | 40 | 38 | 40 | 30 | 44 | 46 | 54 |
| 15 | ARS07-1227 | 40 | 40 | 25 | 51 | 90 | 53 | 34 | 20 | 10 | 3 | 20 | 51 | 83 | 53 | 73 | 54 | 57 | 45 | 28 | 28 | 19 | 21 | 43 | 50 |
| 16 | ARS07-1243 | 25 | 30 | 15 | 35 | 32 | 8 | 39 | 30 | 20 | 40 | 5 | 11 | 58 | 38 | 23 | 16 | 45 | 21 | 30 | 33 | 57 | 58 | 32 | 30 |
| 17 | ARS08-0114 | 40 | 40 | 50 | 59 | 95 | 55 | 61 | 58 | 30 | 59 | 4 | 4 | 84 | 55 | 93 | 58 | 64 | 52 | 40 | 42 | 44 | 55 | 55 | 57 |
| 18 | B050154 | 50 | 45 | 23 | 48 | 60 | 36 | 35 | 25 | 10 | 3 | 6 | 17 | 66 | 46 | 37 | 29 | 66 | 54 | 33 | 35 | 35 | 50 | 38 | 40 |
| 19 | B070495 | 10 | 15 | 20 | 44 | 57 | 33 | 36 | 27 | 25 | 51 | 6 | 17 | 46 | 24 | 28 | 20 | 50 | 27 | 33 | 35 | 46 | 57 | 32 | 30 |
| 20 | B070678 | 50 | 45 | 20 | 44 | 70 | 42 | 39 | 30 | 8 | 2 | 14 | 45 | 52 | 31 | 43 | 36 | 50 | 27 | 40 | 42 | 41 | 53 | 39 | 43 |
| 21 | B070738 | 5 | 1 | 17 | 39 | 75 | 47 | 46 | 43 | 20 | 40 | 4 | 4 | 58 | 38 | 30 | 25 | 52 | 34 | 45 | 47 | 33 | 48 | 35 | 36 |
| 22 | GA04496-S6 | . | . | 5 | 4 | . | . | 32 | 16 | 10 | 3 | 9 | 37 | 28 | 6 | . | . | 33 | 6 | 5 | 2 | 15 | 12 | 20 | 8 |
| 23 | GA041273-S14 | 30 | 34 | 55 | 60 | 97 | 56 | 41 | 34 | 20 | 40 | 33 | 58 | 81 | 51 | 95 | 59 | 62 | 51 | 50 | 53 | 37 | 51 | 55 | 57 |
| 24 | GA041273-S15 | 40 | 40 | 10 | 14 | 87 | 52 | 25 | 7 | 15 | 24 | 9 | 37 | 86 | 58 | 70 | 53 | 57 | 45 | 40 | 42 | 25 | 37 | 42 | 49 |
| 25 | GA04496-S5 | 95 | 57 | 5 | 4 | . | . | 51 | 51 | 10 | 3 | 24 | 53 | 50 | 27 | 65 | 50 | 55 | 40 | 28 | 28 | 33 | 48 | 44 | 51 |
| 26 | GA04496-S8 | 10 | 15 | 2 | 1 | . | . | 44 | 39 | 15 | 24 | 7 | 26 | 53 | 32 | 65 | 51 | 40 | 14 | 45 | 47 | 13 | 5 | 32 | 30 |
| 27 | GA051173W-S11 | 15 | 22 | 12 | 19 | 52 | 30 | 43 | 35 | 15 | 24 | 11 | 40 | 73 | 48 | 28 | 21 | 39 | 12 | 28 | 28 | 22 | 30 | 31 | 28 |
| 28 | GA051173W-S12 | 5 | 1 | 10 | 14 | 43 | 17 | 46 | 43 | 15 | 24 | 4 | 4 | 56 | 36 | 23 | 15 | 43 | 17 | 18 | 20 | 17 | 16 | 25 | 14 |
| 29 | GA051173W-S13 | 5 | 1 | 12 | 19 | 48 | 28 | 37 | 29 | 10 | 3 | 5 | 11 | 54 | 33 | 25 | 18 | 60 | 49 | 18 | 20 | 21 | 24 | 27 | 20 |
| 30 | IL02-18228 | 5 | 1 | 8 | 9 | 30 | 4 | 39 | 30 | 10 | 3 | 6 | 17 | 18 | 1 | 16 | 6 | 33 | 6 | 5 | 2 | 13 | 5 | 17 | 4 |
| 31 | LA03012E-50 | 10 | 15 | 20 | 44 | 78 | 49 | 34 | 20 | 13 | 22 | 22 | 52 | 60 | 41 | 42 | 33 | 48 | 24 | 23 | 24 | 17 | 16 | 33 | 33 |
| 32 | LA03130E66 | 10 | 15 | 27 | 54 | 35 | 10 | 26 | 8 | 15 | 24 | 12 | 41 | 24 | 5 | 65 | 52 | 50 | 27 | 7 | 11 | 16 | 14 | 26 | 17 |
| 33 | LA03130E68 | 5 | 1 | 23 | 48 | 38 | 12 | 30 | 13 | 15 | 24 | 16 | 48 | 28 | 6 | 38 | 30 | 50 | 27 | 23 | 24 | 14 | 8 | 25 | 14 |
| 34 | LA03131E-1 | 50 | 45 | 18 | 43 | 33 | 9 | 33 | 18 | 10 | 3 | 7 | 26 | 38 | 14 | 18 | 8 | 53 | 36 | 38 | 40 | 24 | 35 | 29 | 27 |
| 35 | LA03131E-7 | 50 | 45 | 12 | 19 | 30 | 4 | 34 | 20 | 10 | 3 | 5 | 11 | 33 | 12 | 35 | 28 | 42 | 16 | 7 | 11 | 28 | 40 | 26 | 17 |
| 36 | LA03135E-39 | 20 | 26 | 12 | 19 | 43 | 17 | 47 | 45 | 15 | 24 | 14 | 45 | 74 | 50 | 57 | 42 | 67 | 55 | 50 | 53 | 41 | 53 | 40 | 44 |
| 37 | LA03136E71 | 25 | 30 | 13 | 30 | 47 | 24 | 43 | 35 | 20 | 40 | 7 | 26 | 51 | 30 | 63 | 46 | 49 | 25 | 35 | 38 | 19 | 21 | 34 | 34 |
| 38 | LA06148C-P30 | . | . | 12 | 19 | 85 | 50 | 63 | 59 | 20 | 40 | 7 | 26 | 82 | 52 | 55 | 40 | 67 | 55 | 28 | 28 | 23 | 32 | 44 | 51 |
| 39 | M05-1526 | 80 | 53 | 8 | 9 | 35 | 10 | 36 | 27 | 10 | 3 | 5 | 11 | 31 | 11 | 24 | 17 | 44 | 20 | 13 | 16 | 14 | 8 | 27 | 20 |
| 40 | M08-8036#__ | 10 | 15 | 17 | 39 | 42 | 13 | 26 | 8 | 10 | 3 | 7 | 26 | 30 | 8 | 15 | 5 | 21 | 1 | 6 | 10 | 14 | 8 | 18 | 5 |
| 41 | MD03W61-09-7 | 60 | 49 | 12 | 19 | 42 | 13 | 32 | 16 | 15 | 24 | 7 | 26 | 40 | 18 | 20 | 12 | 47 | 23 | 5 | 2 | 15 | 12 | 27 | 20 |
| 42 | MD03W61-10-2 | 5 | 1 | 12 | 19 | 30 | 4 | 21 | 3 | 10 | 3 | 4 | 4 | 22 | 4 | 17 | 7 | 31 | 5 | 5 | 2 | 22 | 30 | 16 | 3 |
| 43 | MD03W665-10-5 | 60 | 49 | 10 | 14 | 68 | 39 | 47 | 45 | 13 | 22 | 7 | 26 | 50 | 27 | 55 | 41 | 67 | 55 | 30 | 33 | 13 | 5 | 38 | 40 |
| 44 | MD03W69-15 | 40 | 40 | 13 | 30 | 22 | 3 | 11 | 2 | 10 | 3 | 5 | 11 | 30 | 8 | 20 | 10 | 43 | 17 | 5 | 2 | 11 | 3 | 19 | 6 |
| 45 | NC05-15-99 | 5 | 1 | 12 | 19 | 43 | 17 | 29 | 11 | 10 | 3 | 7 | 26 | 42 | 22 | 11 | 2 | 40 | 14 | 5 | 2 | 10 | 1 | 19 | 6 |
| 46 | NC05-39-314 | 5 | 1 | 13 | 30 | 67 | 37 | 54 | 53 | 25 | 51 | 13 | 42 | 55 | 35 | 48 | 37 | 53 | 36 | 50 | 53 | 28 | 40 | 37 | 39 |
| 47 | NC05-39-337 | 30 | 34 | 15 | 35 | 73 | 46 | 47 | 45 | 20 | 40 | 28 | 56 | 54 | 33 | 58 | 43 | 50 | 27 | 35 | 38 | 31 | 45 | 40 | 44 |
| 48 | NC05-39-349 | 30 | 34 | 13 | 30 | 68 | 39 | 45 | 41 | 25 | 51 | 18 | 49 | 60 | 41 | 50 | 39 | 67 | 55 | 50 | 53 | 27 | 39 | 41 | 47 |
| 49 | NC05-39-354 | 80 | 52 | 17 | 39 | 67 | 37 | 50 | 50 | 25 | 51 | 24 | 53 | 64 | 45 | 60 | 45 | 34 | 8 | 65 | 59 | 39 | 52 | 48 | 55 |
| 50 | NC05-39-370 | 5 | 1 | 12 | 19 | 70 | 42 | 66 | 60 | 25 | 51 | 15 | 47 | 56 | 36 | 58 | 44 | 57 | 45 | 65 | 59 | 26 | 38 | 40 | 44 |
| 51 | NC05-39-380 | 5 | 1 | 15 | 35 | 68 | 39 | 49 | 49 | 25 | 51 | 4 | 4 | 73 | 48 | 49 | 38 | 50 | 27 | 45 | 47 | 32 | 46 | 38 | 40 |
| 52 | NC06-16-26-988 | 15 | 22 | 15 | 35 | 47 | 24 | 34 | 20 | 10 | 3 | 6 | 17 | 38 | 14 | 28 | 22 | 69 | 60 | 7 | 11 | 21 | 24 | 26 | 17 |
| 53 | NC99-13022 | 60 | 49 | 33 | 57 | 93 | 54 | 55 | 55 | 25 | 51 | 25 | 55 | 85 | 56 | 90 | 57 | 65 | 53 | 45 | 47 | 44 | 55 | 56 | 59 |
| 54 | VA05W-251 | 25 | 30 | 17 | 39 | 57 | 33 | 47 | 45 | 20 | 40 | 8 | 36 | 61 | 43 | 43 | 35 | 52 | 34 | 33 | 35 | 23 | 32 | 35 | 36 |
| 55 | VA08W-176 | 30 | 34 | 27 | 54 | 50 | 29 | 39 | 30 | 10 | 3 | 28 | 56 | 50 | 27 | 18 | 9 | 55 | 40 | 50 | 53 | 18 | 18 | 34 | 34 |
| 56 | VA08W-193 | 20 | 26 | 25 | 51 | 58 | 35 | 44 | 39 | 15 | 24 | 13 | 42 | 58 | 38 | 40 | 32 | 56 | 44 | 45 | 47 | 24 | 35 | 36 | 38 |
| 57 | VA08W-294 | 90 | 55 | 12 | 19 | 42 | 13 | 33 | 18 | 10 | 3 | 6 | 17 | 38 | 14 | 28 | 23 | 46 | 22 | 18 | 20 | 18 | 18 | 31 | 28 |
| 58 | VA08W-613 | 40 | 40 | 13 | 30 | 55 | 32 | 29 | 11 | 15 | 24 | 4 | 4 | 36 | 13 | 32 | 26 | 38 | 11 | 25 | 26 | 21 | 24 | 28 | 28 |
| 59 | VA09W-623 | 20 | 26 | 10 | 14 | 45 | 22 | 45 | 41 | 15 | 24 | 6 | 17 | 41 | 20 | 29 | 24 | 53 | 36 | 25 | 26 | 21 | 24 | 28 | 28 |
| 60 | VA09W-656 | 25 | 30 | 12 | 19 | 47 | 24 | 28 | 10 | 10 | 3 | 3 | 1 | 42 | 23 | 27 | 19 | 49 | 25 | 7 | 11 | 18 | 18 | 24 | 11 |
| | Mean | | | 16 | | 55 | | 39 | | 16 | | 11 | | 52 | | 42 | | 49 | | 28 | | 24 | | 33 | |
| | LSD (0.05) | | | 3 | | 3 | | 7 | | 16 | | 11 | | 16 | | 26 | | 22 | | 27 | | 16 | | 25 | |
| | CV% | | | 47.7 | | 16.1 | | . | | 51.8 | | 58.9 | | 18.8 | | 30.9 | | 22 | | 49.1 | | . | | 38.3 | |

[1]DATA BY INDIVIDUAL ISOLATES ON FOLLOWING PAGES

# Severity by Individual Isolates, Szeged, Hungary

| | Cultivar/ Designation | *F. culm.* Isol 12551 | *F. gram.* Isol 12377/ 6a | *F. culm.* Isol 12375/ 8 | *F. gram.* Isol *13.05* | Mean | *Rank* |
|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 3 | 48 | 33 | 38 | 31 | *14* |
| 2 | COKER 9835 | 46 | 45 | 48 | 64 | 51 | *51* |
| 3 | BESS | 19 | 36 | 38 | 42 | 34 | *20* |
| 4 | JAMESTOWN | 18 | 45 | 53 | 54 | 43 | *35* |
| 5 | ARS04-1267 | 2 | 21 | 21 | 51 | 24 | *6* |
| 6 | M08*8005# | 5 | 38 | 32 | 65 | 35 | *25* |
| 7 | MD03W61-09-1 | 3 | 28 | 28 | 29 | 22 | *5* |
| 8 | VA09W-641 | 5 | 33 | 35 | 50 | 31 | *14* |
| 9 | ARGE04-1163-44 | 2 | 12 | 20 | 49 | 21 | *3* |
| 10 | ARGE04-1163-67 | 0 | 5 | 4 | 16 | 6 | *1* |
| 11 | ARS07-0245 | 13 | 65 | 70 | 78 | 56 | *56* |
| 12 | ARS07-0262 | 16 | 49 | 46 | 61 | 43 | *35* |
| 13 | ARS07-0404 | 8 | 69 | 60 | 79 | 54 | *53* |
| 14 | ARS07-0609 | 23 | 70 | 63 | 80 | 59 | *57* |
| 15 | ARS07-1227 | 23 | 21 | 43 | 49 | 34 | *20* |
| 16 | ARS07-1243 | 13 | 44 | 44 | 57 | 39 | *30* |
| 17 | ARS08-0114 | 25 | 73 | 68 | 80 | 61 | *58* |
| 18 | B050154 | 5 | 30 | 46 | 61 | 35 | *25* |
| 19 | B070495 | 18 | 42 | 37 | 47 | 36 | *27* |
| 20 | B070678 | 21 | 45 | 35 | 56 | 39 | *30* |
| 21 | B070738 | 16 | 52 | 50 | 67 | 46 | *43* |
| 22 | GA04496-S6 | 23 | 24 | 28 | 52 | 32 | *16* |
| 23 | GA041273-S14 | 5 | 53 | 42 | 64 | 41 | *34* |
| 24 | GA041273-S15 | 21 | 22 | 22 | 37 | 25 | *7* |
| 25 | GA04496-S5 | 39 | 48 | 50 | 66 | 51 | *51* |
| 26 | GA04496-S8 | 9 | 47 | 52 | 68 | 44 | *39* |
| 27 | GA051173W-S11 | 19 | 55 | 48 | 51 | 43 | *35* |
| 28 | GA051173W-S12 | 18 | 52 | 52 | 62 | 46 | *43* |
| 29 | GA051173W-S13 | 7 | 56 | 41 | 46 | 37 | *29* |
| 30 | IL02-18228 | 15 | 61 | 28 | 52 | 39 | *30* |
| 31 | LA03012E-50 | 2 | 41 | 31 | 61 | 34 | *20* |
| 32 | LA03130E66 | 7 | 33 | 23 | 42 | 26 | *8* |
| 33 | LA03130E68 | 3 | 40 | 34 | 44 | 30 | *13* |
| 34 | LA03131E-1 | 9 | 40 | 32 | 53 | 33 | *18* |
| 35 | LA03131E-7 | 8 | 39 | 37 | 53 | 34 | *20* |
| 36 | LA03135E-39 | 40 | 50 | 40 | 59 | 47 | *45* |
| 37 | LA03136E71 | 4 | 53 | 45 | 70 | 43 | *35* |
| 38 | LA06148C-P30 | 13 | 82 | 72 | 84 | 63 | *59* |
| 39 | M05-1526 | 23 | 45 | 30 | 48 | 36 | *27* |
| 40 | M08-8036#__ | 4 | 30 | 33 | 40 | 26 | *8* |
| 41 | MD03W61-09-7 | 4 | 42 | 33 | 49 | 32 | *16* |
| 42 | MD03W61-10-2 | 0 | 26 | 21 | 38 | 21 | *3* |
| 43 | MD03W665-10-5 | 20 | 58 | 44 | 64 | 47 | *45* |
| 44 | MD03W69-15 | 6 | 12 | 8 | 18 | 11 | *2* |
| 45 | NC05-15-99 | 19 | 30 | 22 | 46 | 29 | *11* |
| 46 | NC05-39-314 | 17 | 63 | 62 | 76 | 54 | *53* |
| 47 | NC05-39-337 | 19 | 52 | 48 | 70 | 47 | *45* |
| 48 | NC05-39-349 | 8 | 54 | 50 | 67 | 45 | *41* |
| 49 | NC05-39-354 | 18 | 54 | 53 | 74 | 50 | *50* |
| 50 | NC05-39-370 | 20 | 82 | 79 | 84 | 66 | *60* |
| 51 | NC05-39-380 | 21 | 57 | 57 | 62 | 49 | *49* |
| 52 | NC06-16-26-988 | 18 | 41 | 35 | 43 | 34 | *20* |
| 53 | NC99-13022 | 21 | 60 | 57 | 84 | 55 | *55* |
| 54 | VA05W-251 | 21 | 57 | 52 | 61 | 47 | *45* |
| 55 | VA08W-176 | 27 | 45 | 37 | 49 | 39 | *30* |
| 56 | VA08W-193 | 33 | 48 | 38 | 59 | 44 | *39* |
| 57 | VA08W-294 | 8 | 35 | 39 | 52 | 33 | *18* |
| 58 | VA08W-613 | 8 | 36 | 31 | 42 | 29 | *11* |
| 59 | VA09W-623 | 15 | 57 | 46 | 61 | 45 | *41* |
| 60 | VA09W-656 | 6 | 25 | 31 | 51 | 28 | *10* |
| | **Mean** | **14.3** | **44.5** | **40.9** | **56.1** | **39** | |

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

| | Cultivar/ Designation | *F. gram. Isol 96* | *F. culm. Isol 46* | Mean | *Rank* |
|---|---|---|---|---|---|
| 1 | ERNIE | 307 | 217 | 262 | *41* |
| 2 | COKER 9835 | 310 | 313 | 311 | *51* |
| 3 | BESS | 181 | 114 | 147 | *16* |
| 4 | JAMESTOWN | 211 | 89 | 150 | *17* |
| 5 | ARS04-1267 | 228 | 205 | 216 | *31* |
| 6 | M08*8005# | 107 | 104 | 106 | *4* |
| 7 | MD03W61-09-1 | 95 | 109 | 102 | *3* |
| 8 | VA09W-641 | 215 | 195 | 205 | *28* |
| 9 | ARGE04-1163-44 | 179 | 158 | 169 | *23* |
| 10 | ARGE04-1163-67 | 107 | 121 | 114 | *6* |
| 11 | ARS07-0245 | 250 | 278 | 264 | *43* |
| 12 | ARS07-0262 | 190 | 331 | 260 | *40* |
| 13 | ARS07-0404 | 231 | 156 | 193 | *26* |
| 14 | ARS07-0609 | 372 | 241 | 307 | *50* |
| 15 | ARS07-1227 | 189 | 174 | 182 | *25* |
| 16 | ARS07-1243 | 349 | 491 | 420 | *60* |
| 17 | ARS08-0114 | 474 | 359 | 417 | *59* |
| 18 | B050154 | 270 | 331 | 300 | *49* |
| 19 | B070495 | 537 | 290 | 414 | *58* |
| 20 | B070678 | 339 | 431 | 385 | *56* |
| 21 | B070738 | 321 | 242 | 281 | *46* |
| 22 | GA04496-S6 | 103 | 167 | 135 | *10* |
| 23 | GA041273-S14 | 406 | 292 | 349 | *53* |
| 24 | GA041273-S15 | 222 | 264 | 243 | *37* |
| 25 | GA04496-S5 | 197 | 358 | 278 | *45* |
| 26 | GA04496-S8 | 86 | 178 | 132 | *9* |
| 27 | GA051173W-S11 | 335 | 213 | 274 | *44* |
| 28 | GA051173W-S12 | 219 | 101 | 160 | *21* |
| 29 | GA051173W-S13 | 192 | 228 | 210 | *30* |
| 30 | IL02-18228 | 134 | 119 | 127 | *8* |
| 31 | LA03012E-50 | 243 | 105 | 174 | *24* |
| 32 | LA03130E66 | 143 | 179 | 161 | *22* |
| 33 | LA03130E68 | 163 | 120 | 141 | *11* |
| 34 | LA03131E-1 | 237 | 244 | 241 | *36* |
| 35 | LA03131E-7 | 223 | 284 | 253 | *39* |
| 36 | LA03135E-39 | 273 | 360 | 316 | *52* |
| 37 | LA03136E71 | 179 | 222 | 200 | *27* |
| 38 | LA06148C-P30 | 253 | 245 | 249 | *38* |
| 39 | M05-1526 | 167 | 123 | 145 | *15* |
| 40 | M08-8036#__ | 171 | 131 | 151 | *18* |
| 41 | MD03W61-09-7 | 107 | 113 | 110 | *5* |
| 42 | MD03W61-10-2 | 132 | 152 | 142 | *13* |
| 43 | MD03W665-10-5 | 161 | 73 | 117 | *7* |
| 44 | MD03W69-15 | 97 | 81 | 89 | *1* |
| 45 | NC05-15-99 | 80 | 101 | 90 | *2* |
| 46 | NC05-39-314 | 324 | 239 | 281 | *46* |
| 47 | NC05-39-337 | 306 | 288 | 297 | *48* |
| 48 | NC05-39-349 | 295 | 231 | 263 | *42* |
| 49 | NC05-39-354 | 635 | 123 | 379 | *55* |
| 50 | NC05-39-370 | 88 | 392 | 240 | *35* |
| 51 | NC05-39-380 | 414 | 341 | 378 | *54* |
| 52 | NC06-16-26-988 | 222 | 194 | 208 | *29* |
| 53 | NC99-13022 | 282 | 516 | 399 | *57* |
| 54 | VA05W-251 | 231 | 217 | 224 | *33* |
| 55 | VA08W-176 | 189 | 124 | 156 | *20* |
| 56 | VA08W-193 | 258 | 212 | 235 | *34* |
| 57 | VA08W-294 | 131 | 153 | 142 | *13* |
| 58 | VA08W-613 | 228 | 209 | 219 | *32* |
| 59 | VA09W-623 | 188 | 118 | 153 | *19* |
| 60 | VA09W-656 | 165 | 118 | 141 | *11* |
| | Mean | 236 | 217 | 227 | |
| | LSD (0.05) | . | . | 158 | |

# FHB Index (1-100)

| | CULTIVAR/ DESIGNATION | S'BURY MD | RANK | F'VILLE AR | RANK | NEWPORT AR | RANK | B'BURG VA | RANK | URBANA IL | RANK | LEX'TON KY | RANK | GRIF'N GA | RANK | KINSTON NC | RANK | B'KTON IN | RANK | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 3.5 | 31 | 0.3 | 1 | 19 | 29 | 0.3 | 9 | 37 | 15 | 40 | 40 | 6 | 27 | 20 | 12 | 3 | 24 | 14 | 11 |
| 2 | COKER 9835 | 7.0 | 50 | 10 | 48 | 32 | 52 | 14.2 | 60 | 86 | 58 | 51 | 55 | 90 | 56 | 80 | 55 | 29 | 58 | 44 | 60 |
| 3 | BESS | 1.5 | 6 | 1 | 2 | 13 | 19 | 0.2 | 1 | 43 | 24 | 21 | 12 | 1 | 9 | 23 | 14 | 0 | 7 | 11 | 7 |
| 4 | JAMESTOWN | 1.5 | 6 | 1 | 2 | 9 | 9 | 0.4 | 24 | 61 | 43 | 24 | 16 | 1 | 14 | 22 | 13 | 17 | 50 | 15 | 16 |
| 5 | ARS04-1267 | 1.5 | 6 | 1.7 | 15 | 12 | 16 | 0.3 | 9 | 47 | 26 | 28 | 20 | 7 | 28 | 43 | 35 | 3 | 23 | 16 | 21 |
| 6 | M08*8005# | 8.5 | 55 | 1 | 2 | 10 | 10 | 1.1 | 43 | 35 | 14 | 8 | 1 | 3 | 22 | 35 | 27 | 1 | 13 | 11 | 7 |
| 7 | MD03W61-09-1 | 8.0 | 54 | 2 | 18 | 12 | 16 | 0.4 | 24 | 30 | 10 | 17 | 8 | 58 | 50 | 11 | 4 | 2 | 17 | 16 | 21 |
| 8 | VA09W-641 | 5.0 | 39 | 1 | 2 | 17 | 26 | 0.3 | 9 | 38 | 19 | 24 | 16 | 1 | 11 | 40 | 31 | 2 | 17 | 14 | 11 |
| 9 | ARGE04-1163-44 | 3.0 | 30 | 1 | 2 | 5 | 2 | 0.3 | 9 | 16 | 3 | 16 | 6 | 3 | 19 | 11 | 3 | 0 | 4 | 6 | 2 |
| 10 | ARGE04-1163-67 | 0.3 | 1 | 2 | 18 | 6 | 5 | 0.2 | 1 | 15 | 2 | 14 | 4 | 1 | 9 | 6 | 1 | 0 | 2 | 5 | 1 |
| 11 | ARS07-0245 | 5.0 | 39 | 25 | 59 | 60 | 59 | 12.1 | 59 | 86 | 58 | 47 | 50 | 2 | 15 | 90 | 56 | 24 | 56 | 39 | 57 |
| 12 | ARS07-0262 | 2.5 | 22 | 10 | 48 | 53 | 58 | 0.2 | 1 | 83 | 53 | 38 | 36 | . | . | 63 | 47 | 33 | 59 | 35 | 55 |
| 13 | ARS07-0404 | 7.0 | 50 | 13 | 55 | 43 | 57 | 0.8 | 41 | 66 | 46 | 56 | 56 | 11 | 33 | 65 | 50 | 12 | 45 | 30 | 50 |
| 14 | ARS07-0609 | 9.5 | 57 | 4 | 35 | 30 | 49 | 3.1 | 52 | 85 | 56 | 42 | 45 | 15 | 37 | 63 | 48 | 4 | 27 | 28 | 46 |
| 15 | ARS07-1227 | 2.5 | 22 | 11 | 52 | 28 | 43 | 2.0 | 49 | 83 | 53 | 48 | 53 | 19 | 41 | 73 | 54 | 6 | 35 | 30 | 50 |
| 16 | ARS07-1243 | 2.0 | 15 | 27 | 60 | 22 | 36 | 0.3 | 9 | 58 | 38 | 41 | 43 | 23 | 43 | 23 | 16 | 17 | 49 | 23 | 43 |
| 17 | ARS08-0114 | 18.0 | 60 | 3 | 29 | 63 | 60 | 0.2 | 1 | 84 | 55 | 38 | 36 | 17 | 40 | 93 | 58 | 35 | 60 | 39 | 57 |
| 18 | B050154 | 2.5 | 22 | 8 | 45 | 33 | 53 | 0.4 | 24 | 66 | 46 | 49 | 54 | 26 | 45 | 37 | 29 | 4 | 30 | 25 | 45 |
| 19 | B070495 | 5.5 | 44 | 12 | 54 | 27 | 41 | 0.4 | 24 | 45 | 25 | 32 | 29 | 2 | 15 | 28 | 21 | 8 | 37 | 18 | 27 |
| 20 | B070678 | 1.6 | 13 | 9 | 47 | 22 | 36 | 0.7 | 39 | 52 | 33 | 38 | 36 | 25 | 44 | 42 | 34 | 11 | 42 | 22 | 36 |
| 21 | B070738 | 7.0 | 50 | 4 | 35 | 27 | 41 | 0.2 | 1 | 58 | 38 | 30 | 23 | 1 | 5 | 30 | 25 | 11 | 41 | 19 | 28 |
| 22 | GA04496-S6 | 2.5 | 22 | 15 | 56 | 11 | 13 | 0.5 | 36 | 24 | 6 | 30 | 23 | . | . | . | . | 0 | 10 | 15 | 16 |
| 23 | GA041273-S14 | 7.0 | 50 | 7 | 42 | 25 | 40 | 8.1 | 58 | 81 | 51 | 46 | 49 | 14 | 36 | 95 | 59 | 28 | 57 | 34 | 54 |
| 24 | GA041273-S15 | 4.0 | 35 | 4 | 35 | 28 | 43 | 0.5 | 36 | 86 | 58 | 28 | 21 | 12 | 34 | 70 | 53 | 17 | 51 | 28 | 46 |
| 25 | GA04496-S5 | 2.0 | 15 | 23 | 58 | 28 | 43 | 3.1 | 52 | 50 | 27 | 47 | 50 | 83 | 55 | 65 | 51 | 11 | 42 | 35 | 55 |
| 26 | GA04496-S8 | 2.0 | 15 | 16 | 57 | 20 | 32 | 0.7 | 39 | 51 | 32 | 37 | 35 | 1 | 13 | 63 | 49 | 4 | 27 | 22 | 36 |
| 27 | GA051173W-S11 | 2.5 | 22 | 1 | 2 | 11 | 13 | 0.6 | 38 | 73 | 48 | 30 | 23 | 4 | 23 | 28 | 22 | 3 | 20 | 17 | 24 |
| 28 | GA051173W-S12 | 4.0 | 35 | 1.7 | 15 | 8 | 7 | 0.2 | 1 | 56 | 37 | 24 | 16 | . | . | 23 | 15 | 1 | 14 | 14 | 11 |
| 29 | GA051173W-S13 | 1.0 | 5 | 1 | 2 | 10 | 10 | 0.3 | 9 | 54 | 36 | 33 | 30 | 1 | 12 | 25 | 18 | 4 | 29 | 14 | 11 |
| 30 | IL02-18228 | 0.8 | 2 | 1 | 2 | 5 | 2 | 0.3 | 9 | 11 | 1 | 17 | 8 | 0 | 3 | 15 | 6 | 0 | 1 | 6 | 2 |
| 31 | LA03012E-50 | 2.1 | 21 | 3 | 29 | 20 | 32 | 3.9 | 55 | 60 | 41 | 40 | 40 | 3 | 20 | 42 | 33 | 3 | 26 | 20 | 31 |
| 32 | LA03130E66 | 4.3 | 38 | 1 | 2 | 18 | 28 | 1.0 | 42 | 23 | 5 | 21 | 12 | 2 | 17 | 65 | 52 | 0 | 7 | 15 | 16 |
| 33 | LA03130E68 | 3.5 | 31 | 2 | 18 | 19 | 29 | 1.5 | 47 | 24 | 6 | 14 | 4 | 1 | 5 | 38 | 30 | 2 | 16 | 11 | 7 |
| 34 | LA03131E-1 | 1.8 | 14 | 7 | 42 | 19 | 29 | 0.4 | 24 | 37 | 15 | 38 | 36 | 50 | 47 | 18 | 9 | 8 | 38 | 20 | 31 |
| 35 | LA03131E-7 | 1.5 | 6 | 7 | 42 | 13 | 13 | 0.3 | 9 | 32 | 12 | 11 | 2 | 42 | 46 | 35 | 28 | 1 | 15 | 16 | 21 |
| 36 | LA03135E-39 | 5.0 | 39 | 10 | 48 | 42 | 55 | 1.2 | 45 | 74 | 50 | 58 | 59 | 6 | 26 | 57 | 42 | 21 | 53 | 30 | 50 |
| 37 | LA03136E71 | 6.0 | 45 | 3 | 29 | 20 | 32 | 0.4 | 24 | 50 | 27 | 43 | 46 | 10 | 32 | 63 | 46 | 3 | 20 | 22 | 36 |
| 38 | LA06148C-P30 | 5.0 | 39 | 3 | 29 | 33 | 53 | 0.4 | 24 | 82 | 52 | 47 | 50 | . | . | 55 | 40 | 16 | 47 | 30 | 50 |
| 39 | M05-1526 | 1.5 | 6 | 2 | 18 | 14 | 22 | 0.3 | 9 | 30 | 10 | 31 | 26 | 72 | 53 | 24 | 17 | 6 | 34 | 20 | 31 |
| 40 | M08-8036#__ | 2.0 | 15 | 1 | 2 | 12 | 16 | 0.4 | 24 | 28 | 8 | 12 | 3 | 2 | 18 | 15 | 5 | 0 | 7 | 8 | 4 |
| 41 | MD03W61-09-7 | 3.5 | 31 | 1.7 | 15 | 8 | 7 | 0.4 | 24 | 39 | 21 | 41 | 43 | 60 | 52 | 20 | 10 | 0 | 4 | 19 | 28 |
| 42 | MD03W61-10-2 | 1.5 | 6 | 1 | 2 | 5 | 2 | 0.2 | 1 | 19 | 4 | 29 | 22 | 0 | 1 | 17 | 8 | 0 | 4 | 8 | 4 |
| 43 | MD03W665-10-5 | 4.1 | 37 | 1 | 2 | 20 | 32 | 0.4 | 24 | 50 | 27 | 56 | 56 | 52 | 48 | 55 | 41 | 10 | 40 | 28 | 46 |
| 44 | MD03W69-15 | 0.8 | 2 | 2 | 18 | 3 | 1 | 0.3 | 9 | 29 | 9 | 32 | 28 | 22 | 42 | 20 | 11 | 1 | 10 | 12 | 10 |
| 45 | NC05-15-99 | 0.8 | 2 | 2 | 18 | 11 | 13 | 0.4 | 24 | 41 | 22 | 16 | 6 | 0 | 3 | 9 | 2 | 0 | 2 | 9 | 6 |
| 46 | NC05-39-314 | 6.0 | 45 | 2 | 18 | 24 | 39 | 1.1 | 43 | 53 | 34 | 21 | 12 | 1 | 5 | 48 | 37 | 13 | 46 | 19 | 28 |
| 47 | NC05-39-337 | 5.0 | 39 | 3 | 29 | 29 | 48 | 4.2 | 56 | 50 | 27 | 19 | 11 | 13 | 35 | 58 | 43 | 5 | 32 | 21 | 35 |
| 48 | NC05-39-349 | 6.5 | 48 | 1 | 2 | 28 | 43 | 2.9 | 51 | 60 | 41 | 35 | 32 | 15 | 38 | 50 | 39 | 19 | 52 | 24 | 44 |
| 49 | NC05-39-354 | 6.0 | 45 | 4 | 35 | 31 | 50 | 2.4 | 50 | 62 | 45 | 23 | 15 | 59 | 51 | 60 | 45 | 16 | 48 | 29 | 49 |
| 50 | NC05-39-370 | 9.0 | 56 | 2 | 18 | 29 | 47 | 1.3 | 46 | 53 | 34 | 26 | 19 | 0 | 1 | 58 | 44 | 23 | 54 | 22 | 36 |
| 51 | NC05-39-380 | 13.0 | 58 | 2 | 18 | 31 | 50 | 0.3 | 9 | 73 | 48 | 18 | 10 | 1 | 8 | 49 | 38 | 10 | 39 | 22 | 36 |
| 52 | NC06-16-26-988 | 2.5 | 22 | 2 | 18 | 17 | 26 | 0.3 | 9 | 38 | 19 | 63 | 60 | 3 | 20 | 28 | 23 | 1 | 10 | 17 | 24 |
| 53 | NC99-13022 | 14.5 | 59 | 8 | 46 | 42 | 55 | 4.5 | 57 | 85 | 56 | 57 | 58 | 54 | 49 | 90 | 57 | 23 | 54 | 42 | 59 |
| 54 | VA05W-251 | 6.5 | 48 | 3 | 29 | 14 | 22 | 0.4 | 24 | 61 | 43 | 40 | 40 | 9 | 30 | 43 | 36 | 5 | 30 | 20 | 31 |
| 55 | VA08W-176 | 1.5 | 6 | 11 | 52 | 14 | 22 | 3.7 | 54 | 50 | 27 | 45 | 47 | 8 | 29 | 17 | 7 | 3 | 19 | 17 | 24 |
| 56 | VA08W-193 | 3.5 | 31 | 10 | 48 | 23 | 38 | 1.7 | 48 | 58 | 38 | 45 | 47 | 4 | 24 | 40 | 32 | 11 | 44 | 22 | 36 |
| 57 | VA08W-294 | 2.0 | 15 | 4 | 35 | 10 | 10 | 0.3 | 9 | 37 | 15 | 36 | 34 | 75 | 54 | 27 | 20 | 6 | 33 | 22 | 36 |
| 58 | VA08W-613 | 2.5 | 22 | 2 | 18 | 14 | 22 | 0.3 | 9 | 34 | 13 | 31 | 26 | 15 | 39 | 32 | 26 | 3 | 20 | 15 | 16 |
| 59 | VA09W-623 | 2.5 | 22 | 4 | 35 | 7 | 6 | 0.3 | 9 | 37 | 15 | 34 | 31 | 6 | 25 | 29 | 24 | 6 | 36 | 14 | 11 |
| 60 | VA09W-656 | 2.0 | 15 | 5 | 41 | 13 | 13 | 0.2 | 1 | 42 | 23 | 35 | 32 | 9 | 30 | 26 | 19 | 3 | 24 | 15 | 16 |
| | Mean | 4.2 | | 5.4 | | 21.2 | | 1.4 | | 51 | | 33 | | 18 | | 42 | | 8 | | 21 | |
| | LSD (0.05) | 10 | | . | | | | 2.8 | | 16 | | 20 | | . | | 26 | | 14 | | 25 | |
| | CV% | 119 | | . | | . | | 118.4 | | 19.8 | | 29.9 | | . | | 32.0 | | 84.6 | | 61.1 | |

# Percent Fusarium Damaged Kernels

| | Cultivar/ Designation | URBANA IL | RANK | F'VILLE AR | RANK | NEWPORT AR | RANK | KINSTON NC | RANK | S'BURY MD | RANK | LEX'TON KY | RANK | FUN'LEA ROM | RANK | SZEGED HUN | MEAN All LOCS | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 32 | 5 | 0 | 1 | 19 | 29 | 7 | 8 | 5 | 42 | 16 | 48 | 25 | 23 | 37 40 | 18 | 23 |
| 2 | COKER 9835 | 92 | 57 | 10 | 48 | 32 | 52 | 70 | 55 | 9 | 57 | 15 | 43 | 38 | 36 | 44 49 | 39 | 53 |
| 3 | BESS | 17 | 2 | 1 | 2 | 13 | 19 | 7 | 8 | 1 | 2 | 8 | 8 | 15 | 11 | 2 2 | 8 | 2 |
| 4 | JAMESTOWN | 50 | 25 | 1 | 2 | 9 | 9 | 7 | 8 | 2 | 10 | 17 | 52 | 14 | 10 | 33 33 | 17 | 19 |
| 5 | ARS04-1267 | 47 | 23 | 2 | 15 | 12 | 16 | 17 | 31 | 2 | 10 | 8 | 8 | 32 | 32 | 33 33 | 19 | 26 |
| 6 | M08*8005# | 42 | 14 | 1 | 2 | 10 | 10 | 10 | 16 | 0 | 1 | 13 | 25 | 19 | 16 | 29 29 | 16 | 14 |
| 7 | MD03W61-09-1 | 45 | 20 | 2 | 15 | 12 | 16 | 2 | 1 | 1 | 2 | 6 | 2 | 7 | 3 | 26 26 | 13 | 9 |
| 8 | VA09W-641 | 32 | 5 | 1 | 2 | 17 | 26 | 9 | 14 | 2 | 10 | 11 | 19 | 39 | 37 | 20 18 | 16 | 14 |
| 9 | ARGE04-1163-44 | 43 | 15 | 1 | 2 | 5 | 2 | 7 | 8 | 2 | 10 | 9 | 11 | 12 | 6 | 19 14 | 12 | 7 |
| 10 | ARGE04-1163-67 | 33 | 7 | 2 | 15 | 6 | 5 | 4 | 4 | 1 | 2 | 7 | 5 | 12 | 6 | 13 5 | 10 | 4 |
| 11 | ARS07-0245 | 95 | 60 | 25 | 59 | 60 | 59 | 90 | 59 | 9 | 57 | 16 | 48 | 82 | 59 | 71 60 | 56 | 60 |
| 12 | ARS07-0262 | 83 | 53 | 10 | 48 | 53 | 58 | 53 | 50 | 6 | 48 | 6 | 2 | 76 | 55 | 57 58 | 43 | 57 |
| 13 | ARS07-0404 | 78 | 49 | 13 | 55 | 43 | 57 | 58 | 52 | 7 | 55 | 13 | 25 | 43 | 39 | 62 59 | 40 | 54 |
| 14 | ARS07-0609 | 85 | 55 | 4 | 35 | 30 | 49 | 43 | 44 | 5 | 42 | 14 | 39 | 77 | 57 | 39 44 | 37 | 49 |
| 15 | ARS07-1227 | 70 | 43 | 11 | 52 | 28 | 45 | 53 | 50 | 2 | 10 | 14 | 39 | 34 | 34 | 16 9 | 29 | 42 |
| 16 | ARS07-1243 | 80 | 51 | 27 | 60 | 22 | 36 | 38 | 41 | 3 | 25 | 13 | 25 | 66 | 52 | 53 54 | 38 | 51 |
| 17 | ARS08-0114 | 88 | 56 | 3 | 29 | 63 | 60 | 58 | 52 | 5 | 42 | 18 | 57 | 53 | 46 | 45 50 | 42 | 56 |
| 18 | B050154 | 70 | 43 | 8 | 45 | 33 | 53 | 15 | 27 | 6 | 48 | 17 | 52 | 34 | 34 | 52 53 | 29 | 42 |
| 19 | B070495 | 62 | 34 | 12 | 54 | 27 | 41 | 9 | 14 | 4 | 32 | 15 | 43 | 65 | 51 | 9 4 | 25 | 34 |
| 20 | B070678 | 70 | 43 | 9 | 47 | 22 | 36 | 48 | 48 | 4 | 32 | 13 | 25 | 56 | 49 | 24 23 | 31 | 46 |
| 21 | B070738 | 67 | 39 | 4 | 35 | 27 | 41 | 30 | 36 | 4 | 32 | 14 | 39 | 28 | 28 | 36 39 | 26 | 36 |
| 22 | GA04496-S6 | 70 | 43 | 15 | 56 | 11 | 13 | | | 4 | 32 | 9 | 11 | 20 | 19 | 25 25 | 22 | 29 |
| 23 | GA041273-S14 | 78 | 49 | 7 | 42 | 25 | 40 | 78 | 57 | 9 | 57 | 20 | 59 | 73 | 53 | 53 54 | 43 | 57 |
| 24 | GA041273-S15 | 83 | 53 | 4 | 35 | 28 | 43 | 50 | 49 | 2 | 10 | 19 | 58 | 28 | 28 | 27 27 | 30 | 44 |
| 25 | GA04496-S5 | 80 | 51 | 23 | 58 | 28 | 45 | 78 | 57 | 6 | 48 | 13 | 25 | 44 | 43 | 55 57 | 41 | 55 |
| 26 | GA04496-S8 | 62 | 34 | 16 | 57 | 20 | 32 | 63 | 54 | 4 | 32 | 8 | 8 | 32 | 32 | 19 14 | 28 | 40 |
| 27 | GA051173W-S11 | 53 | 26 | 1 | 2 | 11 | 13 | 12 | 22 | 3 | 25 | 10 | 16 | 27 | 26 | 22 20 | 17 | 19 |
| 28 | GA051173W-S12 | 25 | 4 | 2 | 15 | 8 | 7 | 5 | 5 | 1 | 2 | 12 | 22 | 17 | 13 | 15 8 | 10 | 4 |
| 29 | GA051173W-S13 | 43 | 15 | 1 | 2 | 10 | 10 | 14 | 25 | 2 | 10 | 12 | 22 | 22 | 20 | 27 27 | 16 | 14 |
| 30 | IL02-18228 | 13 | 1 | 1 | 2 | 5 | 2 | 3 | 2 | 1 | 2 | 6 | 2 | 10 | 5 | 13 5 | 6 | 1 |
| 31 | LA03012E-50 | 53 | 26 | 3 | 29 | 20 | 32 | 21 | 35 | 3 | 25 | 17 | 52 | 22 | 20 | 38 43 | 22 | 29 |
| 32 | LA03130E66 | 40 | 11 | 1 | 2 | 18 | 28 | 13 | 24 | 2 | 10 | 14 | 39 | 6 | 2 | 40 47 | 17 | 19 |
| 33 | LA03130E68 | 45 | 20 | 2 | 15 | 19 | 29 | 16 | 30 | 2 | 10 | 13 | 25 | 5 | 1 | 24 23 | 16 | 14 |
| 34 | LA03131E-1 | 47 | 23 | 7 | 42 | 19 | 29 | 7 | 8 | 2 | 10 | 13 | 25 | 64 | 50 | 39 44 | 25 | 34 |
| 35 | LA03131E-7 | 63 | 36 | 7 | 42 | 13 | 19 | 10 | 16 | 4 | 32 | 13 | 25 | 76 | 55 | 33 33 | 27 | 37 |
| 36 | LA03135E-39 | 93 | 59 | 10 | 48 | 42 | 55 | 45 | 46 | 7 | 55 | 21 | 60 | 46 | 45 | 37 40 | 38 | 51 |
| 37 | LA03136E71 | 38 | 10 | 3 | 29 | 20 | 32 | 38 | 41 | 3 | 25 | 11 | 19 | 44 | 43 | 37 40 | 24 | 31 |
| 38 | LA06148C-P30 | 73 | 48 | 3 | 29 | 33 | 53 | 19 | 33 | 6 | 48 | 15 | 43 | 29 | 30 | 50 51 | 28 | 40 |
| 39 | M05-1526 | 57 | 29 | 2 | 15 | 14 | 22 | 14 | 25 | 2 | 10 | 13 | 25 | 43 | 39 | 17 12 | 20 | 27 |
| 40 | M08-8036#__ | 43 | 15 | 1 | 2 | 12 | 16 | 5 | 5 | 1 | 2 | 9 | 11 | 18 | 15 | 23 21 | 14 | 10 |
| 41 | MD03W61-09-7 | 35 | 8 | 2 | 15 | 8 | 7 | 12 | 22 | 3 | 25 | 9 | 11 | 8 | 4 | 21 19 | 12 | 7 |
| 42 | MD03W61-10-2 | 18 | 3 | 1 | 2 | 5 | 2 | 6 | 7 | 2 | 10 | 5 | 1 | 17 | 13 | 19 14 | 9 | 3 |
| 43 | MD03W665-10-5 | 58 | 32 | 1 | 2 | 20 | 32 | 35 | 39 | 4 | 32 | 17 | 52 | 23 | 22 | 32 32 | 24 | 31 |
| 44 | MD03W69-15 | 43 | 15 | 2 | 15 | 3 | 1 | 3 | 2 | 1 | 2 | 10 | 16 | 54 | 48 | 1 1 | 15 | 11 |
| 45 | NC05-15-99 | 40 | 11 | 2 | 15 | 11 | 13 | 8 | 13 | 1 | 2 | 7 | 5 | 12 | 6 | 3 3 | 10 | 4 |
| 46 | NC05-39-314 | 68 | 42 | 2 | 15 | 24 | 39 | 40 | 43 | 5 | 42 | 13 | 25 | 81 | 58 | 51 52 | 36 | 48 |
| 47 | NC05-39-337 | 70 | 43 | 3 | 29 | 29 | 47 | 35 | 39 | 6 | 48 | 13 | 25 | 42 | 38 | 39 44 | 30 | 44 |
| 48 | NC05-39-349 | 67 | 39 | 1 | 2 | 28 | 43 | 20 | 34 | 6 | 48 | 15 | 43 | 53 | 46 | 23 21 | 27 | 37 |
| 49 | NC05-39-354 | 65 | 37 | 4 | 35 | 31 | 50 | 45 | 46 | 6 | 48 | 16 | 48 | 43 | 39 | 34 36 | 31 | 46 |
| 50 | NC05-39-370 | 60 | 33 | 2 | 15 | 29 | 47 | 33 | 38 | 4 | 32 | 15 | 43 | 43 | 39 | 34 36 | 27 | 37 |
| 51 | NC05-39-380 | 67 | 39 | 2 | 15 | 31 | 50 | 43 | 44 | 5 | 42 | 17 | 52 | 90 | 60 | 40 47 | 37 | 49 |
| 52 | NC06-16-26-988 | 57 | 29 | 2 | 15 | 17 | 26 | 18 | 32 | 3 | 25 | 16 | 48 | 16 | 12 | 13 5 | 18 | 23 |
| 53 | NC99-13022 | 92 | 57 | 8 | 45 | 42 | 55 | 75 | 56 | 12 | 60 | 11 | 19 | 74 | 54 | 53 54 | 46 | 59 |
| 54 | VA05W-251 | 57 | 29 | 3 | 29 | 14 | 22 | 11 | 21 | 3 | 25 | 13 | 25 | 27 | 26 | 29 29 | 20 | 27 |
| 55 | VA08W-176 | 53 | 26 | 11 | 52 | 14 | 22 | 10 | 16 | 2 | 10 | 12 | 22 | 19 | 16 | 19 14 | 17 | 19 |
| 56 | VA08W-193 | 65 | 37 | 10 | 48 | 23 | 38 | 31 | 37 | 4 | 32 | 13 | 25 | 26 | 25 | 16 9 | 24 | 31 |
| 57 | VA08W-294 | 45 | 20 | 4 | 35 | 10 | 10 | 15 | 27 | 2 | 10 | 9 | 11 | 12 | 6 | 30 31 | 16 | 14 |
| 58 | VA08W-613 | 35 | 8 | 2 | 15 | 14 | 22 | 10 | 16 | 4 | 32 | 10 | 16 | 30 | 31 | 17 12 | 15 | 11 |
| 59 | VA09W-623 | 40 | 11 | 4 | 35 | 7 | 6 | 15 | 27 | 5 | 42 | 13 | 25 | 25 | 23 | 34 36 | 18 | 23 |
| 60 | VA09W-656 | 43 | 15 | 5 | 41 | 13 | 19 | 10 | 16 | 2 | 10 | 7 | 5 | 19 | 16 | 16 9 | 15 | 11 |
| | Mean | 57 | | 5 | | 21 | | 27 | | 4 | | 13 | | 36 | | 31 | 24 | |
| | LSD (0.05) | 15 | | 6 | | 12 | | . | | 4 | | . | | 31 | | 11 | 23 | |
| | CV% | 16.2 | | 69.1 | | 35.8 | | 35.0 | | 59.3 | | . | | . | | . | 47.9 | |

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

| | CULTIVAR/ DESIGNATION | KINSTON NC | RANK | URBANA IL | RANK | LEX'TON KY | RANK | S'BURY MD | RANK | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 39 | 11 | 53 | 9 | 44 | 39 | 0.5 | 34 | 34 | 14 |
| 2 | COKER 9835 | 82 | 56 | 93 | 59 | 50 | 55 | 1.7 | 54 | 57 | 57 |
| 3 | BESS | 39 | 11 | 49 | 5 | 32 | 10 | 0.1 | 4 | 30 | 7 |
| 4 | JAMESTOWN | 39 | 11 | 68 | 30 | 37 | 18 | 0.1 | 4 | 36 | 23 |
| 5 | ARS04-1267 | 49 | 31 | 63 | 25 | 34 | 13 | 0.1 | 4 | 37 | 26 |
| 6 | M08*8005# | 45 | 24 | 54 | 11 | 22 | 1 | 0.1 | 4 | 30 | 7 |
| 7 | MD03W61-09-1 | 33 | 3 | 57 | 16 | 28 | 8 | 0.3 | 22 | 30 | 7 |
| 8 | VA09W-641 | 46 | 27 | 53 | 9 | 34 | 13 | 0.4 | 30 | 33 | 12 |
| 9 | ARGE04-1163-44 | 35 | 5 | 48 | 4 | 27 | 5 | 0.2 | 15 | 28 | 3 |
| 10 | ARGE04-1163-67 | 29 | 1 | 43 | 3 | 25 | 2 | 0.0 | 1 | 24 | 2 |
| 11 | ARS07-0245 | 93 | 59 | 94 | 60 | 48 | 50 | 1.8 | 56 | 59 | 59 |
| 12 | ARS07-0262 | 70 | 49 | 88 | 53 | 39 | 23 | 0.7 | 41 | 50 | 49 |
| 13 | ARS07-0404 | 73 | 51 | 81 | 49 | 50 | 55 | 1.7 | 54 | 51 | 51 |
| 14 | ARS07-0609 | 66 | 47 | 90 | 56 | 45 | 43 | 2.0 | 57 | 51 | 51 |
| 15 | ARS07-1227 | 73 | 51 | 83 | 50 | 48 | 50 | 0.2 | 15 | 51 | 51 |
| 16 | ARS07-1243 | 52 | 34 | 79 | 47 | 46 | 44 | 0.2 | 15 | 44 | 40 |
| 17 | ARS08-0114 | 81 | 54 | 90 | 56 | 44 | 39 | 4.5 | 59 | 55 | 56 |
| 18 | B050154 | 47 | 28 | 78 | 46 | 49 | 53 | 0.6 | 37 | 44 | 40 |
| 19 | B070495 | 42 | 17 | 68 | 30 | 40 | 28 | 0.9 | 44 | 38 | 27 |
| 20 | B070678 | 60 | 39 | 74 | 41 | 43 | 37 | 0.3 | 22 | 44 | 40 |
| 21 | B070738 | 51 | 32 | 74 | 41 | 38 | 21 | 1.6 | 52 | 41 | 31 |
| 22 | GA04496-S6 | . | . | 62 | 24 | 40 | 28 | 0.3 | 22 | 38 | 27 |
| 23 | GA041273-S14 | 90 | 58 | 86 | 52 | 49 | 53 | 2.2 | 58 | 57 | 57 |
| 24 | GA041273-S15 | 71 | 50 | 89 | 54 | 40 | 28 | 0.3 | 22 | 50 | 49 |
| 25 | GA04496-S5 | 81 | 54 | 77 | 45 | 48 | 50 | 0.4 | 30 | 51 | 51 |
| 26 | GA04496-S8 | 73 | 51 | 70 | 35 | 43 | 37 | 0.3 | 22 | 46 | 47 |
| 27 | GA051173W-S11 | 43 | 18 | 73 | 38 | 39 | 23 | 0.4 | 30 | 39 | 30 |
| 28 | GA051173W-S12 | 39 | 11 | 57 | 16 | 35 | 17 | 0.1 | 4 | 32 | 10 |
| 29 | GA051173W-S13 | 43 | 18 | 64 | 26 | 38 | 21 | 0.1 | 4 | 36 | 23 |
| 30 | IL02-18228 | 34 | 4 | 28 | 1 | 27 | 5 | 0.4 | 30 | 22 | 1 |
| 31 | LA03012E-50 | 51 | 32 | 69 | 33 | 46 | 44 | 0.3 | 22 | 42 | 34 |
| 32 | LA03130E66 | 55 | 38 | 52 | 6 | 34 | 13 | 0.5 | 34 | 35 | 17 |
| 33 | LA03130E68 | 47 | 28 | 52 | 6 | 29 | 9 | 0.3 | 22 | 32 | 10 |
| 34 | LA03131E-1 | 38 | 8 | 59 | 19 | 42 | 35 | 0.1 | 4 | 35 | 17 |
| 35 | LA03131E-7 | 44 | 23 | 64 | 26 | 25 | 2 | 0.2 | 15 | 34 | 14 |
| 36 | LA03135E-39 | 65 | 46 | 89 | 54 | 55 | 59 | 1.0 | 47 | 52 | 55 |
| 37 | LA03136E71 | 64 | 45 | 60 | 21 | 46 | 44 | 0.6 | 37 | 42 | 34 |
| 38 | LA06148C-P30 | 54 | 36 | 84 | 51 | 47 | 49 | 0.9 | 44 | 46 | 47 |
| 39 | M05-1526 | 43 | 18 | 61 | 23 | 40 | 28 | 0.1 | 4 | 36 | 23 |
| 40 | M08-8036#__ | 36 | 6 | 54 | 11 | 26 | 4 | 0.1 | 4 | 29 | 4 |
| 41 | MD03W61-09-7 | 39 | 11 | 55 | 13 | 44 | 39 | 0.2 | 15 | 35 | 17 |
| 42 | MD03W61-10-2 | 38 | 8 | 40 | 2 | 39 | 23 | 0.1 | 4 | 29 | 4 |
| 43 | MD03W665-10-5 | 61 | 42 | 68 | 30 | 53 | 58 | 0.7 | 41 | 45 | 45 |
| 44 | MD03W69-15 | 37 | 7 | 55 | 13 | 39 | 23 | 0.0 | 1 | 33 | 12 |
| 45 | NC05-15-99 | 32 | 2 | 58 | 18 | 27 | 5 | 0.0 | 1 | 29 | 4 |
| 46 | NC05-39-314 | 60 | 39 | 73 | 38 | 34 | 13 | 1.0 | 47 | 42 | 34 |
| 47 | NC05-39-337 | 61 | 42 | 72 | 37 | 32 | 10 | 0.9 | 44 | 42 | 34 |
| 48 | NC05-39-349 | 53 | 35 | 75 | 44 | 42 | 35 | 1.5 | 51 | 43 | 39 |
| 49 | NC05-39-354 | 66 | 47 | 74 | 41 | 37 | 18 | 1.4 | 49 | 45 | 45 |
| 50 | NC05-39-370 | 60 | 39 | 69 | 33 | 37 | 18 | 1.4 | 49 | 42 | 34 |
| 51 | NC05-39-380 | 62 | 44 | 79 | 47 | 32 | 10 | 1.6 | 52 | 44 | 40 |
| 52 | NC06-16-26-988 | 45 | 24 | 64 | 26 | 55 | 59 | 0.3 | 22 | 41 | 31 |
| 53 | NC99-13022 | 87 | 57 | 92 | 58 | 50 | 55 | 5.8 | 60 | 59 | 59 |
| 54 | VA05W-251 | 47 | 28 | 71 | 36 | 44 | 39 | 0.7 | 41 | 41 | 31 |
| 55 | VA08W-176 | 38 | 8 | 66 | 29 | 46 | 44 | 0.1 | 4 | 38 | 27 |
| 56 | VA08W-193 | 54 | 36 | 73 | 38 | 46 | 44 | 0.6 | 37 | 44 | 40 |
| 57 | VA08W-294 | 43 | 18 | 59 | 19 | 40 | 28 | 0.2 | 15 | 35 | 17 |
| 58 | VA08W-613 | 43 | 18 | 52 | 6 | 40 | 28 | 0.5 | 34 | 34 | 14 |
| 59 | VA09W-623 | 45 | 24 | 56 | 15 | 41 | 34 | 0.6 | 37 | 35 | 17 |
| 60 | VA09W-656 | 41 | 16 | 60 | 21 | 39 | 23 | 0.2 | 15 | 35 | 17 |
| | Mean | 53 | | 67 | | 40 | | 0.7 | | 40 | |
| | LSD (0.05) | . | | 9 | | . | | 2.7 | | 17 | |
| | CV% | . | | 8.6 | | . | | 179.8 | | 21.4 | |

# SEED CHARACTERISTICS and Grain Yield

| | Cultivar/ Designation | 1000 GR. WT. S'BURY MD | Grain Yield (gr) F'VILLE AR | Grain Yield (gr) NEWPORT AR |
|---|---|---|---|---|
| 1 | ERNIE | 33 | 354 | 213 |
| 2 | COKER 9835 | 24 | 297 | 46 |
| 3 | BESS | 27 | 415 | 278 |
| 4 | JAMESTOWN | 28 | 402 | 255 |
| 5 | ARS04-1267 | 21 | 435 | 213 |
| 6 | M08*8005# | 26 | 457 | 290 |
| 7 | MD03W61-09-1 | 39 | 384 | 230 |
| 8 | VA09W-641 | 37 | 330 | 202 |
| 9 | ARGE04-1163-44 | 28 | 332 | 301 |
| 10 | ARGE04-1163-67 | 30 | 266 | 304 |
| 11 | ARS07-0245 | 30 | 349 | 23 |
| 12 | ARS07-0262 | 24 | 226 | 87 |
| 13 | ARS07-0404 | 20 | 235 | 89 |
| 14 | ARS07-0609 | 24 | 355 | 108 |
| 15 | ARS07-1227 | 22 | 372 | 92 |
| 16 | ARS07-1243 | 26 | 186 | 128 |
| 17 | ARS08-0114 | 23 | 366 | 148 |
| 18 | B050154 | 27 | 370 | 133 |
| 19 | B070495 | 27 | 347 | 141 |
| 20 | B070678 | 28 | 369 | 126 |
| 21 | B070738 | 30 | 335 | 246 |
| 22 | GA04496-S6 | 30 | 314 | 256 |
| 23 | GA041273-S14 | 30 | 322 | 80 |
| 24 | GA041273-S15 | 26 | 327 | 99 |
| 25 | GA04496-S5 | 25 | 312 | 156 |
| 26 | GA04496-S8 | 24 | 253 | 200 |
| 27 | GA051173W-S11 | 33 | 378 | 175 |
| 28 | GA051173W-S12 | 32 | 426 | 227 |
| 29 | GA051173W-S13 | 33 | 368 | 177 |
| 30 | IL02-18228 | 27 | 342 | 313 |
| 31 | LA03012E-50 | 37 | 271 | 147 |
| 32 | LA03130E66 | 32 | 279 | 248 |
| 33 | LA03130E68 | 36 | 264 | 257 |
| 34 | LA03131E-1 | 37 | 210 | 266 |
| 35 | LA03131E-7 | 33 | 253 | 225 |
| 36 | LA03135E-39 | 21 | 331 | 113 |
| 37 | LA03136E71 | 30 | 370 | 237 |
| 38 | LA06148C-P30 | 32 | 433 | 130 |
| 39 | M05-1526 | 35 | 384 | 219 |
| 40 | M08-8036#__ | 27 | 371 | 198 |
| 41 | MD03W61-09-7 | 28 | 458 | 209 |
| 42 | MD03W61-10-2 | 26 | 438 | 246 |
| 43 | MD03W665-10-5 | 27 | 448 | 152 |
| 44 | MD03W69-15 | 24 | 423 | 266 |
| 45 | NC05-15-99 | 32 | 273 | 177 |
| 46 | NC05-39-314 | 31 | 410 | 173 |
| 47 | NC05-39-337 | 27 | 466 | 202 |
| 48 | NC05-39-349 | 29 | 454 | 208 |
| 49 | NC05-39-354 | 29 | 416 | 197 |
| 50 | NC05-39-370 | 28 | 387 | 220 |
| 51 | NC05-39-380 | 28 | 432 | 229 |
| 52 | NC06-16-26-988 | 36 | 399 | 156 |
| 53 | NC99-13022 | 25 | 350 | 63 |
| 54 | VA05W-251 | 32 | 512 | 254 |
| 55 | VA08W-176 | 30 | 337 | 162 |
| 56 | VA08W-193 | 26 | 317 | 231 |
| 57 | VA08W-294 | 35 | 410 | 240 |
| 58 | VA08W-613 | 30 | 264 | 212 |
| 59 | VA09W-623 | 25 | 348 | 219 |
| 60 | VA09W-656 | 25 | 368 | 229 |
| | Mean | 29 | 355 | 190 |
| | LSD (0.05) | 6 | 98 | 64 |
| | CV% | 11 | 17 | 21 |

# DON
# (ppm)

| | Cultivar/ Designation | URBANA IL | RANK | KINSTON NC | RANK | F'VILLE AR | RANK | NEWPORT AR | RANK | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 10 | 16 | 6 | 11 | 1.2 | 23 | 16 | 35 | 8 | 19 |
| 2 | COKER 9835 | 18 | 40 | 47 | 55 | 2.7 | 44 | 19 | 45 | 22 | 54 |
| 3 | BESS | 8 | 8 | 7 | 14 | 0.8 | 9 | 9 | 6 | 6 | 7 |
| 4 | JAMESTOWN | 12 | 25 | 6 | 11 | 0.5 | 2 | 9 | 6 | 7 | 11 |
| 5 | ARS04-1267 | 18 | 40 | 14 | 33 | 2.1 | 39 | 21 | 47 | 14 | 37 |
| 6 | M08*8005# | 6 | 3 | 9 | 23 | 0.8 | 9 | 10 | 9 | 6 | 7 |
| 7 | MD03W61-09-1 | 12 | 25 | 2 | 3 | 1.1 | 21 | 10 | 9 | 6 | 7 |
| 8 | VA09W-641 | 9 | 11 | 5 | 9 | 0.7 | 7 | 13 | 21 | 7 | 11 |
| 9 | ARGE04-1163-44 | 5 | 2 | 3 | 5 | 1.0 | 18 | 8 | 3 | 4 | 2 |
| 10 | ARGE04-1163-67 | 6 | 3 | 1 | 1 | 1.4 | 27 | 11 | 13 | 5 | 4 |
| 11 | ARS07-0245 | 46 | 60 | 99 | 58 | 6.5 | 56 | 35 | 59 | 46 | 60 |
| 12 | ARS07-0262 | 21 | 50 | 11 | 27 | 1.7 | 37 | 22 | 50 | 14 | 37 |
| 13 | ARS07-0404 | 20 | 46 | 36 | 53 | 2.6 | 43 | 13 | 21 | 18 | 50 |
| 14 | ARS07-0609 | 20 | 46 | 18 | 40 | 2.4 | 40 | 18 | 39 | 15 | 43 |
| 15 | ARS07-1227 | 17 | 36 | 17 | 39 | 1.3 | 25 | 18 | 39 | 13 | 35 |
| 16 | ARS07-1243 | 19 | 43 | 20 | 41 | 9.5 | 58 | 23 | 51 | 18 | 50 |
| 17 | ARS08-0114 | 35 | 58 | 35 | 52 | 1.6 | 33 | 28 | 56 | 25 | 56 |
| 18 | B050154 | 17 | 36 | 13 | 32 | 2.9 | 47 | 28 | 56 | 15 | 43 |
| 19 | B070495 | 10 | 16 | 11 | 27 | 4.6 | 54 | 18 | 39 | 11 | 27 |
| 20 | B070678 | 15 | 32 | 20 | 41 | 3.5 | 51 | 15 | 31 | 14 | 37 |
| 21 | B070738 | 14 | 30 | 14 | 33 | 0.8 | 9 | 14 | 25 | 11 | 27 |
| 22 | GA04496-S6 | 15 | 32 | . | . | 7.6 | 57 | 14 | 25 | 14 | 37 |
| 23 | GA041273-S14 | 20 | 46 | 71 | 57 | 3.2 | 50 | 21 | 47 | 29 | 57 |
| 24 | GA041273-S15 | 8 | 8 | 20 | 41 | 0.9 | 16 | 17 | 38 | 12 | 31 |
| 25 | GA04496-S5 | 31 | 57 | 62 | 56 | 15.1 | 60 | 31 | 58 | 35 | 58 |
| 26 | GA04496-S8 | 15 | 32 | 38 | 54 | 5.7 | 55 | 24 | 53 | 21 | 53 |
| 27 | GA051173W-S11 | 21 | 50 | 12 | 31 | 3.8 | 52 | 18 | 39 | 14 | 37 |
| 28 | GA051173W-S12 | 24 | 55 | 4 | 8 | 2.9 | 47 | 12 | 18 | 11 | 27 |
| 29 | GA051173W-S13 | 22 | 53 | 8 | 20 | 1.6 | 33 | 15 | 31 | 12 | 31 |
| 30 | IL02-18228 | 4 | 1 | 2 | 3 | 0.7 | 7 | 5 | 1 | 3 | 1 |
| 31 | LA03012E-50 | 18 | 40 | 14 | 33 | 1.7 | 37 | 18 | 39 | 13 | 35 |
| 32 | LA03130E66 | 12 | 25 | 11 | 27 | 0.9 | 16 | 14 | 25 | 9 | 23 |
| 33 | LA03130E68 | 14 | 30 | 9 | 23 | 1.0 | 18 | 14 | 25 | 10 | 26 |
| 34 | LA03131E-1 | 9 | 11 | 5 | 9 | 0.6 | 4 | 10 | 9 | 6 | 7 |
| 35 | LA03131E-7 | 10 | 16 | 7 | 14 | 0.8 | 9 | 9 | 6 | 7 | 11 |
| 36 | LA03135E-39 | 28 | 56 | 33 | 50 | 9.5 | 59 | 25 | 54 | 24 | 55 |
| 37 | LA03136E71 | 9 | 11 | 24 | 46 | 1.5 | 30 | 12 | 18 | 12 | 31 |
| 38 | LA06148C-P30 | 22 | 53 | 15 | 36 | 1.0 | 18 | 22 | 49 | 15 | 43 |
| 39 | M05-1526 | 11 | 22 | 9 | 23 | 1.2 | 23 | 13 | 21 | 9 | 23 |
| 40 | M08-8036#__ | 7 | 7 | 6 | 11 | 0.6 | 4 | 7 | 2 | 5 | 4 |
| 41 | MD03W61-09-7 | 10 | 16 | 8 | 20 | 1.3 | 25 | 10 | 9 | 7 | 11 |
| 42 | MD03W61-10-2 | 6 | 3 | 3 | 5 | 0.5 | 2 | 8 | 3 | 4 | 2 |
| 43 | MD03W665-10-5 | 12 | 25 | 15 | 36 | 0.6 | 4 | 16 | 35 | 11 | 27 |
| 44 | MD03W69-15 | 6 | 3 | 1 | 1 | 0.3 | 1 | 11 | 13 | 5 | 4 |
| 45 | NC05-15-99 | 9 | 11 | 3 | 5 | 3.0 | 49 | 13 | 21 | 7 | 11 |
| 46 | NC05-39-314 | 17 | 36 | 33 | 50 | 1.6 | 33 | 14 | 25 | 16 | 48 |
| 47 | NC05-39-337 | 19 | 43 | 23 | 45 | 1.5 | 30 | 14 | 25 | 14 | 37 |
| 48 | NC05-39-349 | 17 | 36 | 26 | 47 | 1.1 | 21 | 15 | 31 | 15 | 43 |
| 49 | NC05-39-354 | 21 | 50 | 30 | 49 | 1.5 | 30 | 19 | 45 | 18 | 50 |
| 50 | NC05-39-370 | 19 | 43 | 21 | 44 | 1.4 | 27 | 18 | 39 | 15 | 43 |
| 51 | NC05-39-380 | 20 | 46 | 26 | 47 | 1.4 | 27 | 23 | 51 | 17 | 49 |
| 52 | NC06-16-26-988 | 10 | 16 | 9 | 23 | 0.8 | 9 | 16 | 35 | 9 | 23 |
| 53 | NC99-13022 | 42 | 59 | 101 | 59 | 4.0 | 53 | 27 | 55 | 43 | 59 |
| 54 | VA05W-251 | 10 | 16 | 8 | 20 | 0.8 | 9 | 11 | 13 | 7 | 11 |
| 55 | VA08W-176 | 11 | 22 | 7 | 14 | 2.7 | 44 | 11 | 13 | 8 | 19 |
| 56 | VA08W-193 | 16 | 35 | 16 | 38 | 2.4 | 40 | 15 | 31 | 12 | 31 |
| 57 | VA08W-294 | 11 | 22 | 7 | 14 | 2.7 | 44 | 11 | 13 | 8 | 19 |
| 58 | VA08W-613 | 12 | 25 | 7 | 14 | 0.8 | 9 | 12 | 18 | 8 | 19 |
| 59 | VA09W-623 | 8 | 8 | 11 | 27 | 1.6 | 33 | 8 | 3 | 7 | 11 |
| 60 | VA09W-656 | 9 | 11 | 7 | 14 | 2.5 | 42 | 10 | 9 | 7 | 11 |
| | Mean | 15 | | 19 | | 2.4 | | 16 | | 13 | |
| | LSD (0.05) | 8 | | 16 | | 2.2 | | 7.9 | | 18 | |
| | CV% | 26 | | 43.4 | | . | | . | | 70.0 | |

# Greenhouse Screening

| | Cultivar/ Designation | AR SEVERITY % @ 5 dai | RANK | AR AUDPC 5-21 days | RANK |
|---|---|---|---|---|---|
| 1 | ERNIE | 53 | 48 | 1084 | 48 |
| 2 | COKER 9835 | 40 | 34 | 998 | 41 |
| 3 | BESS | 23 | 8 | 402 | 5 |
| 4 | JAMESTOWN | 66 | 58 | 1170 | 53 |
| 5 | ARS04-1267 | 21 | 6 | 705 | 17 |
| 6 | M08*8005# | 39 | 32 | 737 | 19 |
| 7 | MD03W61-09-1 | 12 | 2 | 255 | 2 |
| 8 | VA09W-641 | 64 | 56 | 1166 | 52 |
| 9 | ARGE04-1163-44 | 30 | 16 | 661 | 14 |
| 10 | ARGE04-1163-67 | 22 | 7 | 391 | 3 |
| 11 | ARS07-0245 | 28 | 14 | 930 | 36 |
| 12 | ARS07-0262 | 44 | 39 | 1074 | 47 |
| 13 | ARS07-0404 | 52 | 46 | 1158 | 51 |
| 14 | ARS07-0609 | 66 | 57 | 1312 | 58 |
| 15 | ARS07-1227 | 36 | 27 | 931 | 37 |
| 16 | ARS07-1243 | 43 | 37 | 918 | 34 |
| 17 | ARS08-0114 | 58 | 53 | 1214 | 55 |
| 18 | B050154 | 17 | 4 | 402 | 4 |
| 19 | B070495 | 60 | 55 | 1251 | 57 |
| 20 | B070678 | 38 | 31 | 871 | 30 |
| 21 | B070738 | 57 | 50 | 1130 | 49 |
| 22 | GA04496-S6 | 36 | 29 | 1056 | 44 |
| 23 | GA041273-S14 | 50 | 44 | 1235 | 56 |
| 24 | GA041273-S15 | 24 | 10 | 645 | 12 |
| 25 | GA04496-S5 | 35 | 26 | 1144 | 50 |
| 26 | GA04496-S8 | 27 | 12 | 760 | 21 |
| 27 | GA051173W-S11 | 23 | 9 | 618 | 11 |
| 28 | GA051173W-S12 | 47 | 43 | 856 | 27 |
| 29 | GA051173W-S13 | 38 | 30 | 862 | 29 |
| 30 | IL02-18228 | 28 | 13 | 568 | 9 |
| 31 | LA03012E-50 | 43 | 38 | 1066 | 46 |
| 32 | LA03130E66 | 35 | 25 | 732 | 18 |
| 33 | LA03130E68 | 45 | 41 | 827 | 24 |
| 34 | LA03131E-1 | 57 | 51 | 993 | 39 |
| 35 | LA03131E-7 | 45 | 40 | 823 | 23 |
| 36 | LA03135E-39 | 36 | 28 | 837 | 25 |
| 37 | LA03136E71 | 34 | 24 | 790 | 22 |
| 38 | LA06148C-P30 | 31 | 18 | 903 | 33 |
| 39 | M05-1526 | 33 | 22 | 646 | 13 |
| 40 | M08-8036#__ | 20 | 5 | 464 | 6 |
| 41 | MD03W61-09-7 | 24 | 11 | 541 | 8 |
| 42 | MD03W61-10-2 | 29 | 15 | 613 | 10 |
| 43 | MD03W665-10-5 | 42 | 36 | 1053 | 43 |
| 44 | MD03W69-15 | 7 | 1 | 155 | 1 |
| 45 | NC05-15-99 | 33 | 20 | 671 | 15 |
| 46 | NC05-39-314 | 41 | 35 | 872 | 31 |
| 47 | NC05-39-337 | 31 | 17 | 674 | 16 |
| 48 | NC05-39-349 | 16 | 3 | 511 | 7 |
| 49 | NC05-39-354 | 39 | 33 | 1014 | 42 |
| 50 | NC05-39-370 | 33 | 21 | 756 | 20 |
| 51 | NC05-39-380 | 32 | 19 | 858 | 28 |
| 52 | NC06-16-26-988 | 56 | 49 | 963 | 38 |
| 53 | NC99-13022 | 59 | 54 | 1350 | 60 |
| 54 | VA05W-251 | 47 | 42 | 996 | 40 |
| 55 | VA08W-176 | 58 | 52 | 1066 | 45 |
| 56 | VA08W-193 | 71 | 60 | 1333 | 59 |
| 57 | VA08W-294 | 70 | 59 | 1198 | 54 |
| 58 | VA08W-613 | 52 | 47 | 923 | 35 |
| 59 | VA09W-623 | 51 | 45 | 900 | 32 |
| 60 | VA09W-656 | 33 | 23 | 838 | 26 |
| | Mean | 40 | | 864 | |
| | SD @ 5% | 30 | | 451 | |
| | CV% | 51 | | 37 | |

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

| | DESIGNATION | Rht-B1b/1 | Rht-D1b/2 | Rht8 | Ppd-D1a | vrn-A1 short vem | Fhb1 | Fhb Ernie 3BS | Fhb 2DL-Wuhan1/W14 | Fhb Ernie 5AS | Fhb Ning7840 5AS | Fhb Ernie 4B | Fhb Ernie 2B | Sr2 | Sr36 | Sr24/Lr24 | Sr9a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | yes | no | no | no | A1a | no | Yes | no | Yes | no | 0 | 0 | no | Yes | no | 0 |
| 2 | COKER 9835 | no | Yes | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | Yes | no | 0 |
| 3 | BESS | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 4 | JAMESTOWN | no | Yes | no | Yes | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 5 | ARS04-1267 | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 6 | M08*8005# | Yes | no | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 7 | MD03W61-09-1 | no | Yes | no | Yes | A1b | Yes | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 8 | VA09W-641 | no | Yes | no | no | A1b | no | no | no | Yes | no | 0 | 0 | no | no | no | 0 |
| 9 | ARGE04-1163-44 | Yes | no | no | no | A1b | no | no | no | no | Yes? | 0 | 0 | no | no | no | 0 |
| 10 | ARGE04-1163-67 | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 11 | ARS07-0245 | no | Yes | 0 | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 12 | ARS07-0262 | no | no | Yes | Yes | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 13 | ARS07-0404 | no | Yes | no | no | A1a | no | no | no | no | no | 0 | 0 | no | het | no | 0 |
| 14 | ARS07-0609 | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | Yes | no | 0 |
| 15 | ARS07-1227 | no | Yes | no | Yes | A1b | no | no | no | Yes | no | 0 | 0 | no | Yes | no | 0 |
| 16 | ARS07-1243 | Yes | no | no | Yes | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 17 | ARS08-0114 | Yes | no | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 18 | B050154 | no | het | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 19 | B070495 | Yes | no | 0 | no | A1a | no | Yes? | no | no | no | 0 | 0 | no | no | Yes | 0 |
| 20 | B070678 | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | Yes | 0 |
| 21 | B070738 | Yes | no | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 22 | GA04496-S6 | no | Yes | no | no | A1b | Yes | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 23 | GA041273-S14 | no | Yes | no | no | A1a | no | no | no | Yes | no | 0 | 0 | no | no | no | 0 |
| 24 | GA041273-S15 | Yes | no | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 25 | GA04496-S5 | no | Yes | no | no | A1b | Yes | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 26 | GA04496-S8 | no | Yes | no | no | A1b | Yes | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 27 | GA051173W-S11 | no | Yes | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 28 | GA051173W-S12 | no | Yes | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 29 | GA051173W-S13 | no | Yes | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 30 | IL02-18228 | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 31 | LA03012E-50 | no | Yes | no | Yes | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 32 | LA03130E66 | Yes | no | no | het | het | no | no | het | no | no | 0 | 0 | no | Yes | no | 0 |
| 33 | LA03130E68 | Yes | no | no | Yes | A1a | no | no | no | no | no | 0 | 0 | no | Yes | no | 0 |
| 34 | LA03131E-1 | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 35 | LA03131E-7 | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | 0 | no | 0 |
| 36 | LA03135E-39 | Yes | no | no | no | A1b | no | no | no | Yes | no | 0 | 0 | no | no | no | 0 |
| 37 | LA03136E71 | Yes | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 38 | LA06148C-P30 | no | Yes | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 39 | M05-1526 | Yes | egativ | no | no | A1b | 0 | Yes? | no | 0 | 0 | 0 | 0 | no | no | no | 0 |
| 40 | M08-8036#__ | no | no | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | Yes | no | 0 |
| 41 | MD03W61-09-7 | het | het | t or n | het | A1b | or m | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 42 | MD03W61-10-2 | no | Yes | no | Yes | A1b | Yes | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 43 | MD03W665-10-5 | no | Yes | no | Yes | A1b | no | no | no | no | no | 0 | 0 | no | Yes | no | 0 |
| 44 | MD03W69-15 | no | Yes | no | Yes | A1b | Yes | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 45 | NC05-15-99 | no | no | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 46 | NC05-39-314 | Yes | no | Yes | no | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 47 | NC05-39-337 | Yes | no | Yes | no | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 48 | NC05-39-349 | Yes | no | Yes | no | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 49 | NC05-39-354 | Yes | no | Yes | no | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 50 | NC05-39-370 | Yes | no | Yes | no | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 51 | NC05-39-380 | Yes | no | Yes | no | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 52 | NC06-16-26-988 | no | Yes | no | no | A1b | no | no | no | Yes | no | 0 | 0 | no | Yes | no | 0 |
| 53 | NC99-13022 | no | Yes | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | Yes | 0 |
| 54 | VA05W-251 | no | Yes | no | Yes | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 55 | VA08W-176 | 0 | Yes | no | no | egativ | no | no | no | no | no | 0 | 0 | no | no | 0 | 0 |
| 56 | VA08W-193 | no | Yes | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 57 | VA08W-294 | no | Yes | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 58 | VA08W-613 | no | Yes | no | Yes | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 59 | VA09W-623 | no | Yes | no | no | A1b | no | no | no | no | no | 0 | 0 | no | no | no | 0 |
| 60 | VA09W-656 | no | Yes | no | no | A1a | no | no | no | no | no | 0 | 0 | no | no | no | 0 |

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

| | DESIGNATION | 1RS | H13 | H9 | H25 | H26 | BVD2/3 | Lr9 | Lr19/Sr25 | Lr37/Yr17/Sr38 | Lr34/Yr18 | Yr P26R61 Qyr.uga-2AS* | Sbm1 | Bx7 overexpressing | Glu-D1 | Glu-A1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | no | no | no | no | no | no | no | no | no | no | no | 0 | no | 2+12 | Ax1 or null |
| 2 | COKER 9835 | no | no | no | no | no | no | Yes | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 3 | BESS | no | no | no | no | no | no | no | no | no | no | ? | 0 | no | het | Ax1 or null |
| 4 | JAMESTOWN | no | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 5 | ARS04-1267 | 1AL | no | 0 | no | no | no | no | no | het | no | no | 0 | no | 5+10 | Ax2* |
| 6 | M08*8005# | no | no | no | no | no | no | no | no | no | no | no | 0 | no | 5+10 | Ax2* |
| 7 | MD03W61-09-1 | 1BL | no | no | no | no | no | no | no | no | no | no | 0 | no | 2+12 | Ax1 or null |
| 8 | VA09W-641 | 1AL | no | 0 | no | no | no | Yes | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 9 | ARGE04-1163-44 | 1BL | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 10 | ARGE04-1163-67 | 1BL | no | no | 0 | no | no | no | no | no | no | no | 0 | no | 2+12 | het |
| 11 | ARS07-0245 | no | no | no | no | no | no | no | no | Yes | no | no | 0 | no | 2+12 | Ax2* |
| 12 | ARS07-0262 | no | no | no | no | no | no | no | no | Yes | Yes | no | 0 | no | 2+12 | Ax1 or null |
| 13 | ARS07-0404 | no | Yes | no | no | no | no | no | no | het | no | het | 0 | no | 2+12 | Ax2* |
| 14 | ARS07-0609 | no | no | no | no | no | no | no | no | no | no | no | 0 | no | 5+10 | Ax2* |
| 15 | ARS07-1227 | no | no | no | no | no | no | no | no | no | no | ? | 0 | no | 5+10 | Ax1 or null |
| 16 | ARS07-1243 | 1AL | no | 0 | no | no | no | no | no | Yes | no | no | 0 | no | 2+12 | Ax2* |
| 17 | ARS08-0114 | 1AL | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 18 | B050154 | no | no | no | 0 | no | no | no | no | no | no | ? | 0 | het | het | Ax2* |
| 19 | B070495 | no | no | no | no | no | no | no | no | no | no | no | 0 | no | 5+10 | Ax1 or null |
| 20 | B070678 | no | 0 | 0 | no | no | no | Yes | no | no | no | no | 0 | no | 2+12 | Ax2* |
| 21 | B070738 | no | no | no | no | no | no | no | no | no | no | no | 0 | no | 5+10 | Ax1 or null |
| 22 | GA04496-S6 | no | 0 | 0 | no | no | no | no | no | no | no | no | 0 | no | 5+10 | Ax2* |
| 23 | GA041273-S14 | 1BL | no | no | no | no | no | no | no | no | no | no | 0 | no | 2+12 | Ax2* |
| 24 | GA041273-S15 | no | Yes | no | no | no | no | no | no | Yes | no | no | 0 | no | 2+12 | Ax1 or null |
| 25 | GA04496-S5 | no | 0 | no | no | no | no | no | no | no | no | no | 0 | 0 | 5+10 | Ax2* |
| 26 | GA04496-S8 | no | no | no | no | no | no | no | no | no | no | no | 0 | no | 5+10 | Ax2* |
| 27 | GA051173W-S11 | no | Yes | no | no | no | no | no | no | Yes | no | no | 0 | no | 2+12 | het |
| 28 | GA051173W-S12 | no | no | no | no | no | no | no | no | Yes | no | no | 0 | no | 2+12 | Ax1 or null |
| 29 | GA051173W-S13 | no | Yes | no | no | no | no | no | no | Yes | no | no | 0 | no | 2+12 | het |
| 30 | IL02-18228 | no | no | no | no | no | no | no | no | no | no | no | 0 | no | 5+10 | Ax1 or null |
| 31 | LA03012E-50 | no | no | no | no | no | no | no | no | no | no | no | 0 | no | 5+10 | Ax2* |
| 32 | LA03130E66 | no | no | no | no | no | no | Yes | no | no | no | no | 0 | no | 2+12 | het |
| 33 | LA03130E68 | no | no | no | no | no | no | no | no | no | Yes | no | 0 | no | 2+12 | Ax2* |
| 34 | LA03131E-1 | no | no | no | no | no | no | Yes | no | no | Yes | ? | 0 | no | 2+12 | Ax2* |
| 35 | LA03131E-7 | 1BL | no | no | no | no | no | Yes | no | no | Yes | ? | 0 | no | 2+12 | Ax2* |
| 36 | LA03135E-39 | 1BL | no | no | no | no | no | Yes | no | no | no | Yes | 0 | no | 2+12 | Ax1 or null |
| 37 | LA03136E71 | no | no | no | no | no | no | Yes | no | no | no | ? | 0 | Yes | 2+12 | Ax1 or null |
| 38 | LA06148C-P30 | no | no | no | no | no | no | Yes | no | no | no | no | 0 | no | 2+12 | Ax1 or null |
| 39 | M05-1526 | 1BL | no | no | no | no | no | no | no | no | no | no | 0 | het | 2+12 | Ax1 or null |
| 40 | M08-8036#__ | no | no | no | no | no | no | Yes | no | no | no | no | 0 | no | 2+12 | Ax2* |
| 41 | MD03W61-09-7 | 1BL | no | no | no | no | no | no | no | no | no | ? | 0 | no | het | het |
| 42 | MD03W61-10-2 | 1BL | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax1 or null |
| 43 | MD03W665-10-5 | 1BL | no | no | no | no | no | Yes | no | no | no | no | 0 | no | 2+12 | Ax1 or null |
| 44 | MD03W69-15 | 1BL | no | no | no | no | no | no | no | no | no | no | 0 | no | 2+12 | Ax1 or null |
| 45 | NC05-15-99 | 1BL | no | no | no | no | no | Yes | no | no | no | ? | 0 | no | het | Ax2* |
| 46 | NC05-39-314 | no | no | no | 0 | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 47 | NC05-39-337 | no | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 48 | NC05-39-349 | no | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 49 | NC05-39-354 | no | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 50 | NC05-39-370 | no | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 51 | NC05-39-380 | no | no | no | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 52 | NC06-16-26-988 | no | no | no | no | no | no | no | no | no | no | Yes | 0 | no | 2+12 | Ax1 or null |
| 53 | NC99-13022 | 1AL | no | 0 | no | no | no | no | no | no | no | ? | 0 | no | 5+10 | Ax2* |
| 54 | VA05W-251 | no | no | no | no | no | no | Yes | no | no | no | no | 0 | no | 2+12 | Ax2* |
| 55 | VA08W-176 | 1AL | no | 0 | no | no | no | no | no | no | no | no | 0 | no | 2+12 | Ax2* |
| 56 | VA08W-193 | 1AL | no | 0 | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 57 | VA08W-294 | 1AL | no | 0 | no | no | no | Yes | no | no | no | no | 0 | no | 2+12 | Ax2* |
| 58 | VA08W-613 | no | no | no | no | no | no | Yes | no | no | no | no | 0 | no | 2+12 | Ax2* |
| 59 | VA09W-623 | 1AL | no | 0 | no | no | no | no | no | no | no | ? | 0 | no | 2+12 | Ax2* |
| 60 | VA09W-656 | 1AL | no | 0 | no | no | no | no | no | no | no | no | 0 | no | 2+12 | Ax2* |

# Heading Date (Julian Days*)

| | | KINSTON NC | WARSAW VA | S'BURY MD | LEX'TON KY | URBANA IL | FUN'LEA ROM | MEAN ALL LOC. | *RANK* |
|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 105 | 115 | 122 | 133 | 134 | 139 | 125 | *18* |
| 2 | COKER 9835 | 108 | 117 | 125 | 138 | 142 | 141 | 128 | *50* |
| 3 | BESS | 108 | 116 | 123 | 134 | 137 | 139 | 126 | *29* |
| 4 | JAMESTOWN | 104 | 114 | 123 | 133 | 136 | 137 | 124 | *9* |
| 5 | ARS04-1267 | 107 | 116 | 123 | 133 | 136 | 135 | 125 | *18* |
| 6 | M08*8005# | 104 | 115 | 122 | 132 | 133 | 138 | 124 | *9* |
| 7 | MD03W61-09-1 | 105 | 117 | 123 | 132 | 136 | 139 | 125 | *18* |
| 8 | VA09W-641 | 104 | 119 | 122 | 131 | 135 | 134 | 124 | *9* |
| 9 | ARGE04-1163-44 | 108 | 116 | 124 | 133 | 139 | 141 | 127 | *40* |
| 10 | ARGE04-1163-67 | 108 | 117 | 124 | 133 | 140 | 141 | 127 | *40* |
| 11 | ARS07-0245 | 108 | 118 | 124 | 139 | 142 | 139 | 128 | *50* |
| 12 | ARS07-0262 | 106 | 117 | 123 | 135 | 139 | 141 | 127 | *40* |
| 13 | ARS07-0404 | 107 | 116 | 123 | 134 | 139 | 135 | 126 | *29* |
| 14 | ARS07-0609 | 106 | 115 | 122 | 133 | 136 | 139 | 125 | *18* |
| 15 | ARS07-1227 | 106 | 117 | 124 | 133 | 138 | 135 | 125 | *18* |
| 16 | ARS07-1243 | 113 | 118 | 125 | 137 | 139 | 134 | 128 | *50* |
| 17 | ARS08-0114 | 104 | 115 | 122 | 131 | 132 | 139 | 124 | *9* |
| 18 | B050154 | 106 | 117 | 123 | 133 | 137 | 141 | 126 | *29* |
| 19 | B070495 | 109 | 118 | 123 | 136 | 141 | 141 | 128 | *50* |
| 20 | B070678 | 112 | 118 | 124 | 137 | 142 | 141 | 129 | *56* |
| 21 | B070738 | 103 | 115 | 122 | 131 | 135 | 138 | 124 | *9* |
| 22 | GA04496-S6 | . | 124 | 128 | 148 | 144 | 143 | 133 | *58* |
| 23 | GA041273-S14 | 105 | 116 | 123 | 133 | 140 | 139 | 126 | *29* |
| 24 | GA041273-S15 | 105 | 115 | 123 | 131 | 137 | 138 | 125 | *18* |
| 25 | GA04496-S5 | 115 | 124 | 128 | 146 | 144 | 144 | 134 | *59* |
| 26 | GA04496-S8 | 115 | 124 | 127 | 147 | 144 | 144 | 134 | *59* |
| 27 | GA051173W-S11 | 107 | 116 | 123 | 133 | 138 | 140 | 126 | *29* |
| 28 | GA051173W-S12 | 109 | 116 | 123 | 134 | 136 | 137 | 126 | *29* |
| 29 | GA051173W-S13 | 108 | 116 | 123 | 133 | 136 | 139 | 126 | *29* |
| 30 | IL02-18228 | 107 | 115 | 122 | 131 | 133 | 137 | 124 | *9* |
| 31 | LA03012E-50 | 106 | 116 | 124 | 132 | 138 | 139 | 126 | *29* |
| 32 | LA03130E66 | 101 | 114 | 122 | 132 | 134 | 138 | 123 | *2* |
| 33 | LA03130E68 | 100 | 114 | 121 | 130 | 132 | 137 | 122 | *1* |
| 34 | LA03131E-1 | 103 | 115 | 122 | 131 | 133 | 136 | 123 | *2* |
| 35 | LA03131E-7 | 103 | 115 | 122 | 131 | 132 | 137 | 123 | *2* |
| 36 | LA03135E-39 | 110 | 117 | 124 | 135 | 140 | 139 | 127 | *40* |
| 37 | LA03136E71 | 104 | 114 | 123 | 135 | 136 | 138 | 125 | *18* |
| 38 | LA06148C-P30 | 102 | 115 | 123 | 131 | 134 | 138 | 124 | *9* |
| 39 | M05-1526 | 108 | 116 | 123 | 132 | 133 | 140 | 125 | *18* |
| 40 | M08-8036#__ | 104 | 116 | 121 | 133 | 134 | 140 | 125 | *18* |
| 41 | MD03W61-09-7 | 108 | 117 | 125 | 133 | 136 | 140 | 126 | *29* |
| 42 | MD03W61-10-2 | 106 | 117 | 124 | 133 | 137 | 140 | 126 | *29* |
| 43 | MD03W665-10-5 | 104 | 117 | 124 | 134 | 134 | 140 | 125 | *18* |
| 44 | MD03W69-15 | 107 | 118 | 124 | 134 | 139 | 141 | 127 | *40* |
| 45 | NC05-15-99 | 108 | 118 | 124 | 140 | 142 | 141 | 129 | *56* |
| 46 | NC05-39-314 | 104 | 115 | 123 | 134 | 133 | 134 | 124 | *9* |
| 47 | NC05-39-337 | 104 | 114 | 122 | 131 | 132 | 136 | 123 | *2* |
| 48 | NC05-39-349 | 103 | 114 | 123 | 131 | 133 | 135 | 123 | *2* |
| 49 | NC05-39-354 | 103 | 114 | 122 | 133 | 135 | 136 | 124 | *9* |
| 50 | NC05-39-370 | 104 | 114 | 122 | 131 | 133 | 137 | 123 | *2* |
| 51 | NC05-39-380 | 104 | 114 | 123 | 131 | 134 | 135 | 123 | *2* |
| 52 | NC06-16-26-988 | 107 | 119 | 125 | 134 | 139 | 141 | 127 | *40* |
| 53 | NC99-13022 | 109 | 117 | 124 | 135 | 141 | 141 | 128 | *50* |
| 54 | VA05W-251 | 107 | 116 | 123 | 135 | 139 | 139 | 127 | *40* |
| 55 | VA08W-176 | 109 | 117 | 124 | 135 | 141 | 140 | 128 | *50* |
| 56 | VA08W-193 | 108 | 117 | 124 | 133 | 141 | 139 | 127 | *40* |
| 57 | VA08W-294 | 108 | 116 | 123 | 134 | 140 | 139 | 127 | *40* |
| 58 | VA08W-613 | 105 | 115 | 123 | 132 | 135 | 137 | 125 | *18* |
| 59 | VA09W-623 | 107 | 116 | 123 | 132 | 139 | 139 | 126 | *29* |
| 60 | VA09W-656 | 108 | 117 | 124 | 133 | 139 | 141 | 127 | *40* |
| | **Mean** | 106 | 116 | 123 | 134 | 137 | 139 | 125 | |
| | **LSD (0.05)** | 2 | | 1 | 3 | | | 3 | |
| | **CV%** | 1 | | 1 | 1 | | | 1.3 | |

***Days after December 31, 2010**

## Plant Height (in)

| | CULTIVAR/ DESIGNATION | KINSTON NC | S'BURY MD | LEX'TON KY | FUN'LEA ROM | SZEGED HUN | MEAN ALL LOC. | RANK |
|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 32 | 32 | 28 | 35 | 40 | 33 | *2* |
| 2 | COKER 9835 | 32 | 32 | 26 | 33 | 40 | 33 | *2* |
| 3 | BESS | 39 | 36 | 33 | 38 | 46 | 38 | *45* |
| 4 | JAMESTOWN | 32 | 34 | 25 | 44 | 42 | 35 | *11* |
| 5 | ARS04-1267 | 35 | 35 | 32 | 38 | 44 | 37 | *32* |
| 6 | M08*8005# | 34 | 36 | 30 | 35 | 42 | 35 | *11* |
| 7 | MD03W61-09-1 | 37 | 36 | 30 | 38 | 46 | 37 | *32* |
| 8 | VA09W-641 | 34 | 35 | 29 | 36 | 40 | 35 | *11* |
| 9 | ARGE04-1163-44 | 35 | 37 | 32 | 40 | 46 | 38 | *45* |
| 10 | ARGE04-1163-67 | 37 | 41 | 35 | 44 | 46 | 40 | *54* |
| 11 | ARS07-0245 | 38 | 39 | 32 | 36 | 46 | 38 | *45* |
| 12 | ARS07-0262 | 34 | 33 | 24 | 31 | 42 | 33 | *2* |
| 13 | ARS07-0404 | 33 | 32 | 29 | 33 | 40 | 33 | *2* |
| 14 | ARS07-0609 | 31 | 33 | 27 | 36 | 42 | 34 | *9* |
| 15 | ARS07-1227 | 31 | 34 | 29 | 33 | 40 | 33 | *2* |
| 16 | ARS07-1243 | 35 | 36 | 31 | 30 | 44 | 35 | *11* |
| 17 | ARS08-0114 | 33 | 33 | 29 | 38 | 42 | 35 | *11* |
| 18 | B050154 | 34 | 35 | 32 | 36 | 40 | 35 | *11* |
| 19 | B070495 | 34 | 36 | 30 | 33 | 44 | 35 | *11* |
| 20 | B070678 | 36 | 36 | 28 | 38 | 46 | 37 | *32* |
| 21 | B070738 | 37 | 36 | 32 | 42 | 48 | 39 | *51* |
| 22 | GA04496-S6 | 36 | 38 | 37 | 42 | 46 | 40 | *54* |
| 23 | GA041273-S14 | 38 | 35 | 33 | 38 | 46 | 38 | *45* |
| 24 | GA041273-S15 | 35 | 36 | 29 | 37 | 42 | 36 | *22* |
| 25 | GA04496-S5 | 35 | 37 | 34 | 40 | 42 | 37 | *32* |
| 26 | GA04496-S8 | 34 | 38 | 34 | 40 | 42 | 37 | *32* |
| 27 | GA051173W-S11 | 42 | 43 | 34 | 45 | 50 | 43 | *59* |
| 28 | GA051173W-S12 | 40 | 42 | 32 | 42 | 48 | 41 | *57* |
| 29 | GA051173W-S13 | 42 | 42 | 33 | 38 | 50 | 41 | *57* |
| 30 | IL02-18228 | 36 | 40 | 32 | 38 | 46 | 39 | *51* |
| 31 | LA03012E-50 | 36 | 40 | 33 | 43 | 48 | 40 | *54* |
| 32 | LA03130E66 | 34 | 37 | 26 | 41 | 46 | 37 | *32* |
| 33 | LA03130E68 | 34 | 36 | 26 | 40 | 44 | 36 | *22* |
| 34 | LA03131E-1 | 36 | 38 | 29 | 46 | 44 | 38 | *45* |
| 35 | LA03131E-7 | 37 | 38 | 30 | 38 | 42 | 37 | *32* |
| 36 | LA03135E-39 | 31 | 32 | 24 | 33 | 38 | 32 | *1* |
| 37 | LA03136E71 | 35 | 34 | 30 | 42 | 46 | 37 | *32* |
| 38 | LA06148C-P30 | 35 | 36 | 30 | 38 | 46 | 37 | *32* |
| 39 | M05-1526 | 35 | 38 | 28 | 33 | 46 | 36 | *22* |
| 40 | M08-8036#__ | 34 | 36 | 29 | 33 | 42 | 35 | *11* |
| 41 | MD03W61-09-7 | 36 | 37 | 28 | 40 | 46 | 37 | *32* |
| 42 | MD03W61-10-2 | 34 | 33 | 29 | 38 | 38 | 34 | *9* |
| 43 | MD03W665-10-5 | 32 | 33 | 25 | 35 | 42 | 33 | *2* |
| 44 | MD03W69-15 | 34 | 35 | 30 | 33 | 44 | 35 | *11* |
| 45 | NC05-15-99 | 44 | 46 | 37 | 52 | 56 | 47 | *60* |
| 46 | NC05-39-314 | 37 | 34 | 29 | 38 | 44 | 36 | *22* |
| 47 | NC05-39-337 | 36 | 33 | 29 | 36 | 46 | 36 | *22* |
| 48 | NC05-39-349 | 34 | 36 | 29 | 38 | 44 | 36 | *22* |
| 49 | NC05-39-354 | 35 | 34 | 29 | 29 | 40 | 33 | *2* |
| 50 | NC05-39-370 | 36 | 36 | 30 | 43 | 48 | 39 | *51* |
| 51 | NC05-39-380 | 36 | 36 | 27 | 40 | 46 | 37 | *32* |
| 52 | NC06-16-26-988 | 33 | 37 | 30 | 38 | 46 | 37 | *32* |
| 53 | NC99-13022 | 33 | 35 | 31 | 35 | 48 | 36 | *22* |
| 54 | VA05W-251 | 34 | 34 | 29 | 35 | 44 | 35 | *11* |
| 55 | VA08W-176 | 34 | 39 | 30 | 40 | 46 | 38 | *45* |
| 56 | VA08W-193 | 35 | 36 | 28 | 36 | 42 | 35 | *11* |
| 57 | VA08W-294 | 33 | 37 | 28 | 40 | 42 | 36 | *22* |
| 58 | VA08W-613 | 34 | 34 | 30 | 35 | 46 | 36 | *22* |
| 59 | VA09W-623 | 35 | 38 | 30 | 34 | 44 | *36* | *22* |
| 60 | VA09W-656 | 36 | 37 | 31 | 36 | 44 | *37* | *32* |
| | **Mean** | **35** | **36** | **30** | **38** | **44** | **37** | |
| | **LSD (0.05)** | **3** | **4** | **4** | **.** | **.** | **4** | |
| | **CV%** | **4.0** | **4.8** | **7.1** | **.** | **.** | **5.4** | |

# Leaf and Viral Disease Ratings

| | CULTIVAR/ DESIGNATION | LEAF RUST *(0-9)* WARSAW VA | LEAF RUST *(0-9)* KINSTON NC | LEAF RUST *(0-9)* FUN'LEA ROM | LEAF RUST *%* SZEGED HUN | POWDERY MILDEW *(0-9)* KINSTON NC | POWDERY MILDEW *(0-9)* WARSAW VA | POWDERY MILDEW *%* F'VILLE AR | Stripe Rust *IT* L. SPR. NC | Stripe Rust *%* L. SPR. NC |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 30S | 6.5 | 3-4 | S 100 | 1 | 4 | 20 | 9 | 90 |
| 2 | COKER 9835 | 1MR | 1.5 | 2 | MRT | 1 | 1 | 10 | 9 | 80 |
| 3 | BESS | 30MS | 4.5 | 4 | MS 30 | 4 | 3 | 30 | 5 | 40 |
| 4 | JAMESTOWN | 1R | 2.0 | 2 | MRT | 2 | 0 | 5 | 3 | 5 |
| 5 | ARS04-1267 | 90S | 3.0 | 4 | MS 40 | 1 | 0 | 0 | 7 | 50 |
| 6 | M08*8005# | 20MS | 2.0 | 3-4 | MR 10 | 2 | 0 | 6 | 2 | 10 |
| 7 | MD03W61-09-1 | 50MS | 6.5 | 4 | S 50 | 0 | 0 | 1 | 9 | 80 |
| 8 | VA09W-641 | 0R | 1.0 | 0 | MRT | 1 | 0 | 0 | 9 | 90 |
| 9 | ARGE04-1163-44 | 1R | 1.0 | 1 | S 100 | 4 | 3 | 57 | 7 | 50 |
| 10 | ARGE04-1163-67 | 1R | 1.5 | 2 | MRT | 4 | 6 | 57 | 2 | 10 |
| 11 | ARS07-0245 | 2MR | 0.0 | 2 | MRT | 1 | 1 | 6 | 2 | 5 |
| 12 | ARS07-0262 | 2MR | 0.0 | 5 | MRT | 1 | 0 | 3 | 2 | 10 |
| 13 | ARS07-0404 | 0R | 0.5 | 1 | MRT | 1 | 1 | 16 | 6 | 40 |
| 14 | ARS07-0609 | 10MR | 2.0 | 1-2 | MR 10 | 1 | 0 | 1 | 8 | 80 |
| 15 | ARS07-1227 | 0R | 1.0 | 0 | MR 5 | 0 | 0 | 0 | 8 | 80 |
| 16 | ARS07-1243 | 20MR | 0.0 | 0 | MR 5 | 0 | 2 | 0 | 1 | 1 |
| 17 | ARS08-0114 | 0R | 2.0 | 1-2 | MR 5 | 0 | 0 | 12 | 2 | 10 |
| 18 | B050154 | 10MR | 5.0 | 0 | MRT | 2 | 6 | 15 | 3 | 5 |
| 19 | B070495 | 0R | 0.5 | 0 | MR 5 | 0 | 4 | 0 | 7 | 40 |
| 20 | B070678 | 1R | 0.0 | 0 | MR 20 | 1 | 4 | 2 | 1 | 5 |
| 21 | B070738 | 20MR | 4.0 | 1-2 | MRT | 2 | 1 | 12 | 8 | 70 |
| 22 | GA04496-S6 | 25MS | 4.5 | 0 | MRT | 2 | 3 | 25 | 9 | 50 |
| 23 | GA041273-S14 | 0R | 0.0 | 0 | MR 5 | 2 | 1 | 32 | 6 | 50 |
| 24 | GA041273-S15 | 1MR | 0.0 | 0 | MRT | 0 | 0 | 5 | 2 | 5 |
| 25 | GA04496-S5 | 5MR | 3.0 | 2 | MRT | 1 | 3 | 8 | 8 | 60 |
| 26 | GA04496-S8 | 15MR | 3.5 | 2 | MR 5 | 7 | 4 | 30 | 8 | 60 |
| 27 | GA051173W-S11 | 15MR | 0.5 | 3-4 | MR 5 | 1 | 1 | 1 | 3 | 5 |
| 28 | GA051173W-S12 | 10MR | 0.0 | 3-4 | MRT | 2 | 1 | 5 | 3 | 5 |
| 29 | GA051173W-S13 | 15MR | 1.5 | 3-4 | MRT | 1 | 1 | 5 | 3 | 5 |
| 30 | IL02-18228 | 1MR | 1.0 | 3 | MRT | 6 | 5 | 25 | 7 | 50 |
| 31 | LA03012E-50 | 0R | 1.5 | 0 | MRT | 1 | 5 | 12 | 5 | 20 |
| 32 | LA03130E66 | 15MR | 4.0 | 5 | MS 30 | 3 | 2 | 1 | seg2-7 | seg10-60 |
| 33 | LA03130E68 | 5MR | 2.0 | 4 | MS 30 | 2 | 1 | 5 | 8 | 60 |
| 34 | LA03131E-1 | 0R | 0.0 | 2 | MRT | 1 | 2 | 17 | 7 | 60 |
| 35 | LA03131E-7 | 0R | 0.5 | 2 | MRT | 2 | 0 | 11 | 7 | 60 |
| 36 | LA03135E-39 | 0R | 1.0 | 0 | MRT | 1 | 3 | 22 | 2 | 10 |
| 37 | LA03136E71 | 0R | 0.0 | 0 | MRT | 5 | 6 | 38 | 3 | 10 |
| 38 | LA06148C-P30 | 0R | 1.0 | 2 | MRT | 0 | 2 | 0 | 3 | 10 |
| 39 | M05-1526 | 2MR | 0.5 | 2 | MR 20 | 2 | 3 | 30 | 7 | 60 |
| 40 | M08-8036#__ | 0R | 0.0 | 0 | MRT | 5 | 6 | 20 | 3 | 20 |
| 41 | MD03W61-09-7 | 30S | 5.5 | 4-5 | MR 30 | 1 | 0 | 1 | 8 | 80 |
| 42 | MD03W61-10-2 | 15MS | 6.0 | 1-2 | MRT | 0 | 0 | 1 | 9 | 80 |
| 43 | MD03W665-10-5 | 0R | 1.0 | | MR 5 | 0 | 0 | 0 | 9 | 80 |
| 44 | MD03W69-15 | 15MS | 5.5 | 2 | MS 30 | 4 | 2 | 0 | 9 | 70 |
| 45 | NC05-15-99 | 0R | 1.5 | 3-4 | MRT | 5 | 1 | 3 | seg1-7 | seg5-50 |
| 46 | NC05-39-314 | 5S | 4.0 | 2 | MRT | 3 | 4 | 17 | 8 | 60 |
| 47 | NC05-39-337 | 2/TrMR/S | 3.0 | 1 | MRT | 3 | 3 | 29 | 8 | 70 |
| 48 | NC05-39-349 | 5S | 1.5 | 1 | MRT | 0 | 4 | 27 | 7 | 70 |
| 49 | NC05-39-354 | 10S | 2.0 | 1 | MRT | 5 | 5 | 15 | 7 | 70 |
| 50 | NC05-39-370 | 15S | 4.0 | 1 | MRT | 5 | 5 | 11 | 7 | 70 |
| 51 | NC05-39-380 | 10S | 4.0 | 1 | MRT | 3 | 4 | 15 | 7 | 70 |
| 52 | NC06-16-26-988 | 1R | 0.5 | | MR 5 | 0 | 0 | 0 | 9 | 90 |
| 53 | NC99-13022 | 75S | 2.0 | | MR 5 | 5 | 3 | 0 | 7 | 70 |
| 54 | VA05W-251 | 0R | 0.0 | | MRT | 1 | 1 | 3 | 8 | 90 |
| 55 | VA08W-176 | 0R | 0.0 | 2 | MRT | 1 | 1 | 0 | 3 | 10 |
| 56 | VA08W-193 | 1MR | 0.0 | 2 | MR 5 | 3 | 3 | 0 | 3 | 10 |
| 57 | VA08W-294 | 0R | 0.0 | 1 | MRT | 0 | 0 | 0 | 2 | 5 |
| 58 | VA08W-613 | 0R | 0.5 | 3 | MRT | 0 | 0 | 2 | 6 | 50 |
| 59 | VA09W-623 | 2MR | 1.5 | 2 | MRT | 1 | 1 | 0 | 1 | 5 |
| 60 | VA09W-656 | 1R | 0.5 | 1 | MRT | 1 | 1 | 0 | 4 | 20 |
| | Mean | . | 1.9 | . | . | 2 | . | 11 | . | . |
| | LSD (0.05) | . | . | . | . | . | . | 11 | . | . |
| | CV% | . | . | . | . | . | . | 62 | . | . |

# Hessian Fly Screening

## (Resistant - Susceptible Plants)[1]

| | CULTIVAR/ DESIGNATION | Biotype C | Biotype O | Biotype L |
|---|---|---|---|---|
| 1 | ERNIE | 0-17 | 20-2 | 0-15 |
| 2 | COKER 9835 | 17-0 | 0-21 | 0-18 |
| 3 | BESS | 0-14 | 0-19 | 0-19 |
| 4 | JAMESTOWN | 16-0 | 0-20 | 0-18 |
| 5 | ARS04-1267 | 0-11 | 0-19 | 0-14 |
| 6 | M08*8005# | 0-13 | 21-1 | 0-18 |
| 7 | MD03W61-09-1 | 0-17 | 18-0 | 0-14 |
| 8 | VA09W-641 | 0-18 | 0-21 | 0-20 |
| 9 | ARGE04-1163-44 | 0-17 | 16-2 | 0-17 |
| 10 | ARGE04-1163-67 | 21-0 | 0-19 | 0-19 |
| 11 | ARS07-0245 | 0-17 | 0-19 | 0-14 |
| 12 | ARS07-0262 | 0-15 | 0-23 | 0-17 |
| 13 | ARS07-0404 | 18-0 | 17-1 | 16-0 |
| 14 | ARS07-0609 | 13-3 | 17-5 | 12-5 |
| 15 | ARS07-1227 | 11-5 | 17-6 | 14-3 |
| 16 | ARS07-1243 | 0-16 | 0-19 | 0-15 |
| 17 | ARS08-0114 | 0-20 | 12-6 | 0-15 |
| 18 | B050154 | 0-20 | 0-18 | 0-13 |
| 19 | B070495 | 0-18 | 0-15 | 0-16 |
| 20 | B070678 | 0-16 | 0-18 | 0-19 |
| 21 | B070738 | 0-16 | 9-4 | 0-16 |
| 22 | GA04496-S6 | 0-7 | 4-1 | 0-12 |
| 23 | GA041273-S14 | 0-18 | 0-12 | 0-16 |
| 24 | GA041273-S15 | 16-0 | 13-0 | 16-0 |
| 25 | GA04496-S5 | 0-13 | 6-2 | 0-9 |
| 26 | GA04496-S8 | 0-15 | 10-1 | 0-12 |
| 27 | GA051173W-S11 | 15-0 | 7-4 | 14-2 |
| 28 | GA051173W-S12 | 14-1 | 6-7 | 7-10 |
| 29 | GA051173W-S13 | 18-0 | 9-0 | 13-3 |
| 30 | IL02-18228 | 0-17 | 0-11 | 0-16 |
| 31 | LA03012E-50 | 0-18 | 8-3 | 0-17 |
| 32 | LA03130E66 | 0-15 | 0-12 | 0-7 |
| 33 | LA03130E68 | 0-14 | 0-6 | 0-13 |
| 34 | LA03131E-1 | 0-10 | 0-14 | 0-13 |
| 35 | LA03131E-7 | 0-8 | 4-3 | 0-13 |
| 36 | LA03135E-39 | 18-0 | 0-17 | 0-16 |
| 37 | LA03136E71 | 0-17 | 0-16 | 0-15 |
| 38 | LA06148C-P30 | 13-5 | 0-15 | 0-18 |
| 39 | M05-1526 | 18-0 | 0-17 | 0-17 |
| 40 | M08-8036#__ | 0-17 | 0-13 | 0-15 |
| 41 | MD03W61-09-7 | 0-17 | 0-15 | 0-13 |
| 42 | MD03W61-10-2 | 0-21 | 1-14 | 0-17 |
| 43 | MD03W665-10-5 | 0-17 | 0-16 | 0-14 |
| 44 | MD03W69-15 | 0-14 | 0-13 | 0-15 |
| 45 | NC05-15-99 | 0-17 | 0-10 | 0-17 |
| 46 | NC05-39-314 | 0-17 | 0-20 | 0-15 |
| 47 | NC05-39-337 | 0-18 | 0-16 | 0-19 |
| 48 | NC05-39-349 | 0-12 | 0-20 | 0-15 |
| 49 | NC05-39-354 | 0-15 | 0-18 | 0-17 |
| 50 | NC05-39-370 | 0-18 | 0-15 | 0-16 |
| 51 | NC05-39-380 | 0-17 | 0-20 | 0-14 |
| 52 | NC06-16-26-988 | 0-20 | 1-12 | 2-10 |
| 53 | NC99-13022 | 0-12 | 0-16 | 0-14 |
| 54 | VA05W-251 | 18-0 | 2-13 | 0-13 |
| 55 | VA08W-176 | 0-17 | 0-14 | 0-17 |
| 56 | VA08W-193 | 0-22 | 0-14 | 0-18 |
| 57 | VA08W-294 | 0-19 | 0-17 | 0-19 |
| 58 | VA08W-613 | 0-19 | 0-20 | 0-20 |
| 59 | VA09W-623 | 0-20 | 0-21 | 0-18 |
| 60 | VA09W-656 | 0-21 | 0-18 | 0-17 |

[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 | 61 | C | 71 | B | 65 | C | 58.5 | 66.7 | | 58.6 | | 18.5 | 11.9 | 9.1 | 101.6 | | 88.6 | + | 18.1 | + |
| 2 | COKER 9835 | 63 | C | 53 | D | 83 | A | 57.6 | 67.0 | | 64.8 | + | 24.2 | 12.0 | 9.2 | 98.1 | | 102.0 | q | 17.7 | |
| 3 | BESS | 65 | C | 48 | E | 55 | D | 59.9 | 67.5 | | 55.1 | q | 21.0 | 11.9 | 9.9 | 100.6 | | 96.7 | | 17.5 | |
| 4 | JAMESTOWN | 59 | D | 46 | E | 66 | C | 60.7 | 66.3 | | 58.9 | | 29.4 | 12.3 | 9.5 | 110.3 | s | 100.6 | q | 17.5 | |
| 5 | ARS04-1267 | 72 | B | 23 | F | 7 | F | 61.6 | 69.0 | + | 38.2 | q | 29.4 | 13.1 | 13.0 | 117.1 | s | 93.5 | + | 16.8 | q |
| 6 | M08*8005# | 77 | B | 67 | C | 71 | B | 58.6 | 69.8 | + | 60.6 | | 25.7 | 12.2 | 10.1 | 106.6 | | 91.2 | + | 18.0 | + |
| 7 | MD03W61-09-1 | 68 | C | 43 | E | 56 | D | 60.1 | 68.1 | + | 55.3 | q | 30.5 | 12.8 | 10.9 | 92.1 | w | 98.4 | | 17.4 | |
| 8 | VA09W-641 | 70 | B | 53 | D | 60 | C | 58.6 | 68.5 | + | 56.9 | q | 27.8 | 12.4 | 9.9 | 102.5 | | 95.4 | | 17.6 | |
| 9 | ARGE04-1163-44 | 84 | A | 30 | F | 10 | F | 58.8 | 71.2 | + | 39.0 | q | 29.3 | 13.0 | 12.1 | 95.6 | | 91.5 | + | 17.0 | q |
| 10 | ARGE04-1163-67 | 61 | C | 40 | F | 49 | E | 58.8 | 66.8 | | 53.0 | q | 26.1 | 13.7 | 10.9 | 92.1 | w | 98.1 | | 17.3 | q |
| 11 | ARS07-0245 | 60 | C | 21 | F | 71 | B | 56.6 | 66.5 | | 60.5 | | 29.7 | 13.8 | 10.8 | 131.5 | s | 113.2 | q | 16.9 | q |
| 12 | ARS07-0262 | 59 | D | 36 | F | 56 | D | 58.3 | 66.4 | | 55.5 | q | 32.6 | 13.7 | 11.5 | 81.3 | w | 101.3 | q | 17.3 | q |
| 13 | ARS07-0404 | 62 | C | 57 | D | 66 | C | 0.5 | 66.8 | | 58.8 | | 34.1 | 12.9 | 10.8 | 102.2 | | 94.1 | | 17.8 | |
| 14 | ARS07-0609 | 83 | A | 74 | B | 86 | A | 56.0 | 71.1 | + | 66.1 | + | 24.7 | 12.6 | 9.8 | 103.8 | | 92.2 | + | 18.2 | + |
| 15 | ARS07-1227 | 80 | A | 71 | B | 47 | E | 58.3 | 70.5 | + | 52.4 | q | 24.4 | 12.9 | 10.4 | 92.5 | w | 82.6 | + | 18.1 | + |
| 16 | ARS07-1243 | 76 | B | 29 | F | 14 | F | 60.0 | 69.7 | + | 40.6 | q | 34.1 | 14.0 | 13.4 | 115.3 | s | 92.2 | + | 17.0 | q |
| 17 | ARS08-0114 | 83 | A | 33 | F | 30 | F | 54.9 | 71.0 | + | 46.3 | q | 29.3 | 12.2 | 11.6 | 116.9 | s | 95.7 | | 17.1 | q |
| 18 | B050154 | 78 | B | 79 | B | 79 | B | 57.0 | 70.2 | + | 63.6 | + | 22.1 | 11.0 | 9.0 | 99.5 | | 88.5 | + | 18.3 | + |
| 19 | B070495 | 69 | C | 64 | C | 56 | D | 57.6 | 68.4 | + | 55.5 | q | 22.2 | 12.8 | 9.9 | 92.1 | w | 88.9 | + | 17.9 | |
| 20 | B070678 | 65 | C | 67 | C | 66 | C | 59.3 | 67.4 | | 58.9 | | 22.0 | 12.6 | 10.0 | 96.4 | | 90.0 | + | 18.0 | |
| 21 | B070738 | 86 | A | 57 | D | 68 | C | 59.8 | 71.8 | + | 59.8 | | 22.3 | 12.5 | 10.4 | 99.9 | | 95.6 | | 17.8 | |
| 22 | GA04496-S6 | 71 | B | 78 | B | 68 | C | 58.2 | 68.7 | + | 59.6 | | 30.7 | 11.6 | 9.4 | 97.1 | | 85.5 | + | 18.3 | + |
| 23 | GA041273-S14 | 82 | A | 81 | A | 72 | B | 58.9 | 71.0 | + | 61.1 | | 25.7 | 11.6 | 9.3 | 69.8 | w | 85.3 | + | 18.4 | + |
| 24 | GA041273-S15 | 56 | D | 52 | D | 52 | D | 59.9 | 65.8 | q | 53.9 | q | 28.6 | 11.2 | 9.4 | 97.8 | | 94.2 | | 17.6 | |
| 25 | GA04496-S5 | 68 | C | 70 | B | 75 | B | 55.9 | 68.2 | + | 62.2 | + | 28.6 | 12.1 | 9.7 | 100.1 | | 91.2 | + | 18.1 | + |
| 26 | GA04496-S8 | 69 | C | 71 | B | 73 | B | 57.8 | 68.4 | + | 61.2 | | 28.2 | 11.8 | 9.3 | 102.8 | | 90.5 | + | 18.1 | + |
| 27 | GA051173W-S11 | 65 | C | 46 | E | 44 | E | 61.3 | 67.6 | | 51.2 | q | 20.1 | 11.0 | 8.6 | 99.8 | | 95.6 | | 17.3 | |
| 28 | GA051173W-S12 | 62 | C | 47 | E | 56 | D | 61.5 | 67.0 | | 55.4 | q | 24.6 | 11.3 | 8.8 | 108.4 | | 97.9 | | 17.4 | |
| 29 | GA051173W-S13 | 64 | C | 53 | D | 43 | E | 61.4 | 67.3 | | 50.7 | q | 21.8 | 11.2 | 8.8 | 99.2 | | 91.3 | + | 17.6 | |
| 30 | IL02-18228 | 79 | B | 59 | D | 39 | F | 62.3 | 70.4 | + | 49.4 | q | 30.4 | 11.9 | 10.3 | 100.4 | | 86.5 | + | 17.7 | |
| 31 | LA03012E-50 | 80 | A | 75 | B | 67 | C | 59.2 | 70.6 | + | 59.3 | | 21.7 | 11.1 | 8.6 | 94.2 | w | 87.4 | + | 18.2 | + |
| 32 | LA03130E66 | 81 | A | 62 | C | 49 | E | 60.0 | 70.7 | + | 52.9 | q | 21.2 | 11.7 | 9.3 | 99.1 | | 88.3 | + | 17.8 | |
| 33 | LA03130E68 | 80 | B | 65 | C | 50 | D | 60.1 | 70.4 | + | 53.3 | q | 22.7 | 11.5 | 9.0 | 91.8 | w | 87.3 | + | 17.9 | |
| 34 | LA03131E-1 | 83 | A | 65 | C | 59 | D | 59.8 | 71.1 | + | 56.5 | q | 26.0 | 12.0 | 9.6 | 77.2 | w | 89.7 | + | 17.9 | |
| 35 | LA03131E-7 | 85 | A | 74 | B | 60 | D | 60.1 | 71.4 | + | 56.7 | q | 26.0 | 11.3 | 8.8 | 80.0 | w | 85.7 | + | 18.1 | + |
| 36 | LA03135E-39 | 49 | E | 49 | E | 75 | B | 58.8 | 64.2 | q | 62.0 | + | 26.5 | 13.0 | 10.6 | 98.9 | | 100.9 | q | 17.6 | |
| 37 | LA03136E71 | 73 | B | 68 | C | 70 | C | 60.5 | 69.2 | + | 60.2 | | 21.4 | 11.9 | 9.3 | 101.9 | | 91.2 | + | 18.0 | |
| 38 | LA06148C-P30 | 68 | C | 44 | E | 60 | C | 59.4 | 68.0 | + | 56.9 | q | 24.1 | 11.7 | 9.3 | 97.1 | | 100.3 | q | 17.4 | |
| 39 | M05-1526 | 77 | B | 70 | B | 69 | C | 58.4 | 69.8 | + | 60.1 | | 19.5 | 11.2 | 8.7 | 85.7 | w | 90.4 | + | 18.0 | + |
| 40 | M08-8036#__ | 74 | B | 68 | C | 57 | D | 60.1 | 69.4 | + | 55.6 | q | 25.4 | 12.5 | 9.8 | 103.3 | | 87.0 | + | 18.0 | |
| 41 | MD03W61-09-7 | 70 | B | 61 | C | 61 | C | 59.2 | 68.6 | + | 57.0 | q | 29.2 | 12.1 | 10.0 | 100.2 | | 91.7 | + | 17.8 | |
| 42 | MD03W61-10-2 | 65 | C | 62 | C | 65 | C | 61.4 | 67.5 | | 58.6 | | 27.4 | 11.7 | 9.3 | 88.9 | w | 92.8 | + | 17.9 | |
| 43 | MD03W665-10-5 | 70 | C | 76 | B | 72 | B | 58.2 | 68.4 | + | 61.1 | | 27.2 | 11.2 | 8.7 | 84.1 | w | 88.4 | + | 18.2 | + |
| 44 | MD03W69-15 | 72 | B | 71 | B | 76 | B | 59.5 | 68.9 | + | 62.4 | + | 25.8 | 11.2 | 9.3 | 97.5 | | 91.3 | + | 18.1 | + |
| 45 | NC05-15-99 | 55 | D | 29 | F | 41 | E | 59.5 | 65.4 | q | 50.0 | q | 36.6 | 14.2 | 11.4 | 84.6 | w | 100.7 | q | 17.0 | q |
| 46 | NC05-39-314 | 75 | B | 70 | C | 72 | B | 58.7 | 69.6 | + | 61.0 | | 18.4 | 10.5 | 8.4 | 103.2 | | 91.6 | + | 18.0 | |
| 47 | NC05-39-337 | 80 | A | 79 | B | 72 | B | 59.5 | 70.6 | + | 60.8 | | 19.6 | 10.0 | 7.4 | 97.0 | | 87.7 | + | 18.2 | + |
| 48 | NC05-39-349 | 78 | B | 76 | B | 69 | C | 60.1 | 70.1 | + | 60.1 | | 18.3 | 10.2 | 7.8 | 95.7 | | 88.4 | + | 18.2 | + |
| 49 | NC05-39-354 | 76 | B | 75 | B | 73 | B | 58.3 | 69.6 | + | 61.2 | | 21.7 | 10.6 | 7.9 | 102.2 | | 89.4 | + | 18.2 | + |
| 50 | NC05-39-370 | 76 | B | 65 | C | 66 | C | 59.1 | 69.7 | + | 59.0 | | 20.1 | 10.6 | 8.2 | 100.0 | | 92.6 | + | 17.9 | |
| 51 | NC05-39-380 | 79 | B | 77 | B | 70 | B | 59.4 | 70.3 | + | 60.4 | | 22.8 | 10.1 | 7.5 | 95.5 | | 87.9 | + | 18.2 | + |
| 52 | NC06-16-26-988 | 75 | B | 70 | C | 53 | D | 60.6 | 69.5 | + | 54.4 | q | 28.5 | 12.7 | 10.1 | 97.5 | | 85.1 | + | 18.1 | + |
| 53 | NC99-13022 | 76 | B | 47 | E | 56 | D | 58.2 | 69.7 | + | 55.2 | q | 27.4 | 12.1 | 9.9 | 114.3 | s | 96.9 | | 17.5 | |
| 54 | VA05W-251 | 77 | B | 71 | B | 51 | D | 59.9 | 69.8 | + | 53.6 | q | 25.2 | 11.1 | 9.2 | 77.2 | w | 84.4 | + | 18.1 | + |
| 55 | VA08W-176 | 70 | B | 80 | B | 66 | C | 61.3 | 68.6 | + | 59.0 | | 24.1 | 11.3 | 8.6 | 90.9 | w | 84.8 | + | 18.3 | + |
| 56 | VA08W-193 | 72 | B | 62 | C | 68 | C | 59.0 | 69.0 | + | 59.5 | | 24.5 | 11.6 | 8.9 | 112.2 | s | 93.7 | + | 17.8 | |
| 57 | VA08W-294 | 63 | C | 58 | D | 68 | C | 59.0 | 67.0 | | 59.8 | | 22.5 | 11.3 | 8.6 | 108.2 | | 96.2 | | 17.7 | |
| 58 | VA08W-613 | 69 | C | 57 | D | 63 | C | 59.0 | 68.2 | + | 57.7 | | 22.8 | 12.0 | 9.3 | 91.0 | w | 94.6 | | 17.7 | |
| 59 | VA09W-623 | 75 | B | 69 | C | 52 | D | 61.4 | 69.503 | + | 54.0 | q | 28.8 | 12.1 | 9.8 | 111.44 | s | 85.5 | + | 18.0 | |
| 60 | VA09W-656 | 70 | C | 63 | C | 54 | D | 60.8 | 68.5 | + | 54.5 | q | 29.1 | 12.0 | 9.5 | 101.5 | | 88.9 | + | 17.9 | |
| | Mean | 72 | | 60 | | 59 | | 58.3 | 68.8 | | 56.595 | | 25.5 | 11.9 | 9.6 | 98.4 | | 92.2 | | 17.8 | |

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

# Means Across Locations 2010-11

| | Cultivar/ Designation | FHB Incidence | RANK | FHB Severity | RANK | FHB Index | RANK | FDK | RANK | ISK | RANK | DON | RANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 47 | 18 | 23 | 10 | 14 | 11 | 18 | 23 | 34 | 14 | 8 | 19 |
| 2 | COKER 9835 | 74 | 60 | 56 | 59 | 44 | 60 | 39 | 53 | 57 | 57 | 22 | 54 |
| 3 | BESS | 42 | 7 | 20 | 8 | 11 | 7 | 8 | 2 | 30 | 7 | 6 | 7 |
| 4 | JAMESTOWN | 47 | 18 | 28 | 24 | 15 | 16 | 17 | 19 | 36 | 23 | 7 | 11 |
| 5 | ARS04-1267 | 46 | 15 | 27 | 20 | 16 | 21 | 19 | 26 | 37 | 26 | 14 | 37 |
| 6 | M08*8005# | 40 | 6 | 24 | 11 | 11 | 7 | 16 | 14 | 30 | 7 | 6 | 7 |
| 7 | MD03W61-09-1 | 54 | 40 | 24 | 11 | 16 | 21 | 13 | 9 | 30 | 7 | 6 | 7 |
| 8 | VA09W-641 | 45 | 14 | 25 | 14 | 14 | 11 | 16 | 14 | 33 | 12 | 7 | 11 |
| 9 | ARGE04-1163-44 | 39 | 5 | 14 | 2 | 6 | 2 | 12 | 7 | 28 | 3 | 4 | 2 |
| 10 | ARGE04-1163-67 | 36 | 2 | 9 | 1 | 5 | 1 | 10 | 4 | 24 | 2 | 5 | 4 |
| 11 | ARS07-0245 | 58 | 48 | 51 | 56 | 39 | 57 | 56 | 60 | 59 | 59 | 46 | 60 |
| 12 | ARS07-0262 | 55 | 43 | 45 | 53 | 35 | 55 | 43 | 57 | 50 | 49 | 14 | 37 |
| 13 | ARS07-0404 | 58 | 48 | 41 | 47 | 30 | 50 | 40 | 54 | 51 | 51 | 18 | 50 |
| 14 | ARS07-0609 | 55 | 43 | 46 | 54 | 28 | 46 | 37 | 49 | 51 | 51 | 15 | 43 |
| 15 | ARS07-1227 | 54 | 40 | 43 | 50 | 30 | 50 | 29 | 42 | 51 | 51 | 13 | 35 |
| 16 | ARS07-1243 | 64 | 57 | 32 | 30 | 23 | 43 | 38 | 51 | 44 | 40 | 18 | 50 |
| 17 | ARS08-0114 | 61 | 53 | 55 | 57 | 39 | 57 | 42 | 56 | 55 | 56 | 25 | 56 |
| 18 | B050154 | 53 | 37 | 38 | 40 | 25 | 45 | 29 | 42 | 44 | 40 | 15 | 43 |
| 19 | B070495 | 47 | 18 | 32 | 30 | 18 | 27 | 25 | 34 | 38 | 27 | 11 | 27 |
| 20 | B070678 | 53 | 37 | 39 | 43 | 22 | 36 | 31 | 46 | 44 | 40 | 14 | 37 |
| 21 | B070738 | 47 | 18 | 35 | 36 | 19 | 28 | 26 | 36 | 41 | 31 | 11 | 27 |
| 22 | GA04496-S6 | 50 | 29 | 20 | 8 | 15 | 16 | 22 | 29 | 38 | 27 | 14 | 37 |
| 23 | GA041273-S14 | 61 | 53 | 55 | 57 | 34 | 54 | 43 | 57 | 57 | 57 | 29 | 57 |
| 24 | GA041273-S15 | 50 | 29 | 42 | 49 | 28 | 46 | 30 | 44 | 50 | 49 | 12 | 31 |
| 25 | GA04496-S5 | 64 | 57 | 44 | 51 | 35 | 55 | 41 | 55 | 51 | 51 | 35 | 58 |
| 26 | GA04496-S8 | 47 | 18 | 32 | 30 | 22 | 36 | 28 | 40 | 46 | 47 | 21 | 53 |
| 27 | GA051173W-S11 | 48 | 25 | 31 | 28 | 17 | 24 | 17 | 19 | 39 | 30 | 14 | 37 |
| 28 | GA051173W-S12 | 43 | 10 | 25 | 14 | 14 | 11 | 10 | 4 | 32 | 10 | 11 | 27 |
| 29 | GA051173W-S13 | 43 | 10 | 27 | 20 | 14 | 11 | 16 | 14 | 36 | 23 | 12 | 31 |
| 30 | IL02-18228 | 32 | 1 | 17 | 4 | 6 | 2 | 6 | 1 | 22 | 1 | 3 | 1 |
| 31 | LA03012E-50 | 50 | 29 | 33 | 33 | 20 | 31 | 22 | 29 | 42 | 34 | 13 | 35 |
| 32 | LA03130E66 | 42 | 7 | 26 | 17 | 15 | 16 | 17 | 19 | 35 | 17 | 9 | 23 |
| 33 | LA03130E68 | 38 | 4 | 25 | 14 | 11 | 7 | 16 | 14 | 32 | 10 | 10 | 26 |
| 34 | LA03131E-1 | 58 | 48 | 29 | 27 | 20 | 31 | 25 | 34 | 35 | 17 | 6 | 7 |
| 35 | LA03131E-7 | 49 | 27 | 26 | 17 | 16 | 21 | 27 | 37 | 34 | 14 | 7 | 11 |
| 36 | LA03135E-39 | 56 | 45 | 40 | 44 | 30 | 50 | 38 | 51 | 52 | 55 | 24 | 55 |
| 37 | LA03136E71 | 53 | 37 | 34 | 34 | 22 | 36 | 24 | 31 | 42 | 34 | 12 | 31 |
| 38 | LA06148C-P30 | 56 | 45 | 44 | 51 | 30 | 50 | 28 | 40 | 46 | 47 | 15 | 43 |
| 39 | M05-1526 | 61 | 53 | 27 | 20 | 20 | 31 | 20 | 27 | 36 | 23 | 9 | 23 |
| 40 | M08-8036#__ | 42 | 7 | 18 | 5 | 8 | 4 | 14 | 10 | 29 | 4 | 5 | 4 |
| 41 | MD03W61-09-7 | 59 | 51 | 27 | 20 | 19 | 28 | 12 | 7 | 35 | 17 | 7 | 11 |
| 42 | MD03W61-10-2 | 44 | 12 | 16 | 3 | 8 | 4 | 9 | 3 | 29 | 4 | 4 | 2 |
| 43 | MD03W665-10-5 | 62 | 56 | 38 | 40 | 28 | 46 | 24 | 31 | 45 | 45 | 11 | 27 |
| 44 | MD03W69-15 | 50 | 29 | 19 | 6 | 12 | 10 | 15 | 11 | 33 | 12 | 5 | 4 |
| 45 | NC05-15-99 | 36 | 2 | 19 | 6 | 9 | 6 | 10 | 4 | 29 | 4 | 7 | 11 |
| 46 | NC05-39-314 | 44 | 12 | 37 | 39 | 19 | 28 | 36 | 48 | 42 | 34 | 16 | 48 |
| 47 | NC05-39-337 | 47 | 18 | 40 | 44 | 21 | 35 | 30 | 44 | 42 | 34 | 14 | 37 |
| 48 | NC05-39-349 | 54 | 40 | 41 | 47 | 24 | 44 | 27 | 37 | 43 | 39 | 15 | 43 |
| 49 | NC05-39-354 | 57 | 47 | 48 | 55 | 29 | 49 | 31 | 46 | 45 | 45 | 18 | 50 |
| 50 | NC05-39-370 | 46 | 15 | 40 | 44 | 22 | 36 | 27 | 37 | 42 | 34 | 15 | 43 |
| 51 | NC05-39-380 | 47 | 18 | 38 | 40 | 22 | 36 | 37 | 49 | 44 | 40 | 17 | 49 |
| 52 | NC06-16-26-988 | 50 | 29 | 26 | 17 | 17 | 24 | 18 | 23 | 41 | 31 | 9 | 23 |
| 53 | NC99-13022 | 70 | 59 | 56 | 59 | 42 | 59 | 46 | 59 | 59 | 59 | 43 | 59 |
| 54 | VA05W-251 | 52 | 35 | 35 | 36 | 20 | 31 | 20 | 27 | 41 | 31 | 7 | 11 |
| 55 | VA08W-176 | 48 | 25 | 34 | 34 | 17 | 24 | 17 | 19 | 38 | 27 | 8 | 19 |
| 56 | VA08W-193 | 51 | 34 | 36 | 38 | 22 | 36 | 24 | 31 | 44 | 40 | 12 | 31 |
| 57 | VA08W-294 | 59 | 51 | 31 | 28 | 22 | 36 | 16 | 14 | 35 | 17 | 8 | 19 |
| 58 | VA08W-613 | 49 | 27 | 28 | 28 | 15 | 16 | 15 | 11 | 34 | 14 | 8 | 19 |
| 59 | VA09W-623 | 46 | 15 | 28 | 28 | 14 | 11 | 18 | 23 | 35 | 17 | 7 | 11 |
| 60 | VA09W-656 | 52 | 35 | 24 | 11 | 15 | 16 | 15 | 11 | 35 | 17 | 7 | 11 |
| | Mean | 51 | | 33 | | 21 | | 21 | | 40 | | 13 | |
| | LSD (0.05) | 28.0 | | 25 | | 25 | | 21 | | 17 | | 18 | |
| | CV% | 28.0 | | 38.3 | | 61.1 | | 50.6 | | 21.4 | | 70.0 | |

# Means Across Locations 2010 - 2011

| | Cultivar/ Designation | Heading Date | RANK | Plant Height | RANK | Hessian Fly Biotype L | MILLING QUALITY SCORE | | BAKING QUALITY SCORE | | SOFT. EQUIV. SCORE | | Leaf Rust (0-9) NC AR | Stripe Rust % L. SPR. NC | Powdery Mildew (0-9) Mean NC+VA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ERNIE | 125 | 20 | 31 | 7 | 0-15 | 61 | C | 71 | B | 65 | C | 7 | 90 | 3 |
| 2 | COKER 9835 | 128 | 55 | 30 | 3 | 0-18 | 63 | C | 53 | D | 83 | A | 2 | 80 | 1 |
| 3 | BESS | 126 | 34 | 36 | 51 | 0-19 | 65 | C | 48 | E | 55 | D | 5 | 40 | 4 |
| 4 | JAMESTOWN | 124 | 17 | 30 | 4 | 0-18 | 59 | D | 46 | E | 66 | C | 2 | 5 | 1 |
| 5 | ARS04-1267 | 125 | 22 | 34 | 38 | 0-14 | 72 | B | 23 | F | 7 | F | 3 | 50 | 0 |
| 6 | M08*8005# | 124 | 13 | 33 | 25 | 0-18 | 77 | B | 67 | C | 71 | B | 2 | 10 | 1 |
| 7 | MD03W61-09-1 | 125 | 25 | 34 | 43 | 0-14 | 68 | C | 43 | E | 56 | D | 7 | 80 | 0 |
| 8 | VA09W-641 | 124 | 14 | 33 | 21 | 0-20 | 70 | B | 53 | D | 60 | C | 1 | 90 | 1 |
| 9 | ARGE04-1163-44 | 127 | 42 | 35 | 46 | 0-17 | 84 | A | 30 | F | 10 | F | 1 | 50 | 3 |
| 10 | ARGE04-1163-67 | 127 | 47 | 37 | 56 | 0-19 | 61 | C | 40 | F | 49 | E | 2 | 10 | 5 |
| 11 | ARS07-0245 | 128 | 54 | 36 | 53 | 0-14 | 60 | C | 21 | F | 71 | B | 0 | 5 | 1 |
| 12 | ARS07-0262 | 127 | 43 | 30 | 5 | 0-17 | 59 | D | 36 | F | 56 | D | 0 | 10 | 0 |
| 13 | ARS07-0404 | 126 | 29 | 31 | 8 | 16-0 | 62 | C | 57 | D | 66 | C | 1 | 40 | 1 |
| 14 | ARS07-0609 | 125 | 24 | 30 | 6 | 12-5 | 83 | A | 74 | B | 86 | A | 2 | 80 | 0 |
| 15 | ARS07-1227 | 125 | 27 | 31 | 9 | 14-3 | 80 | A | 71 | B | 47 | E | 1 | 80 | 0 |
| 16 | ARS07-1243 | 128 | 51 | 34 | 37 | 0-15 | 76 | B | 29 | F | 14 | F | 0 | 1 | 1 |
| 17 | ARS08-0114 | 124 | 11 | 31 | 10 | 0-15 | 83 | A | 33 | F | 30 | F | 2 | 10 | 0 |
| 18 | B050154 | 126 | 35 | 34 | 35 | 0-13 | 78 | B | 79 | B | 79 | B | 5 | 5 | 4 |
| 19 | B070495 | 128 | 53 | 33 | 30 | 0-16 | 69 | C | 64 | C | 56 | D | 1 | 40 | 2 |
| 20 | B070678 | 129 | 57 | 33 | 34 | 0-19 | 65 | C | 67 | C | 66 | C | 0 | 5 | 2 |
| 21 | B070738 | 124 | 15 | 35 | 47 | 0-16 | 86 | A | 57 | D | 68 | C | 4 | 70 | 2 |
| 22 | GA04496-S6 | 133 | 58 | 37 | 55 | 0-12 | 71 | B | 78 | B | 68 | C | 5 | 50 | 3 |
| 23 | GA041273-S14 | 126 | 32 | 35 | 48 | 0-16 | 82 | A | 81 | A | 72 | B | 0 | 50 | 1 |
| 24 | GA041273-S15 | 125 | 21 | 33 | 29 | 16-0 | 56 | D | 52 | D | 52 | D | 0 | 5 | 0 |
| 25 | GA04496-S5 | 134 | 59 | 35 | 50 | 0-9 | 68 | C | 70 | B | 75 | B | 3 | 60 | 2 |
| 26 | GA04496-S8 | 134 | 60 | 35 | 49 | 0-12 | 69 | C | 71 | B | 73 | B | 4 | 60 | 5 |
| 27 | GA051173W-S11 | 126 | 38 | 40 | 59 | 14-2 | 65 | C | 46 | E | 44 | E | 1 | 5 | 1 |
| 28 | GA051173W-S12 | 126 | 31 | 38 | 57 | 7-10 | 62 | C | 47 | E | 56 | D | 0 | 5 | 1 |
| 29 | GA051173W-S13 | 126 | 33 | 39 | 58 | 13-3 | 64 | C | 53 | D | 43 | E | 2 | 5 | 1 |
| 30 | IL02-18228 | 124 | 16 | 36 | 52 | 0-16 | 79 | B | 59 | D | 39 | F | 1 | 50 | 6 |
| 31 | LA03012E-50 | 126 | 30 | 36 | 54 | 0-17 | 80 | A | 75 | B | 67 | C | 2 | 20 | 3 |
| 32 | LA03130E66 | 123 | 7 | 32 | 13 | 0-7 | 81 | A | 62 | C | 49 | E | 4 | seg10-60 | 2 |
| 33 | LA03130E68 | 122 | 1 | 32 | 11 | 0-13 | 80 | B | 65 | C | 50 | D | 2 | 60 | 1 |
| 34 | LA03131E-1 | 123 | 2 | 34 | 40 | 0-13 | 83 | A | 65 | C | 59 | D | 0 | 60 | 1 |
| 35 | LA03131E-7 | 123 | 5 | 35 | 44 | 0-13 | 85 | A | 74 | B | 60 | D | 1 | 60 | 1 |
| 36 | LA03135E-39 | 127 | 48 | 29 | 1 | 0-16 | 49 | E | 49 | E | 75 | B | 1 | 10 | 2 |
| 37 | LA03136E71 | 125 | 23 | 33 | 26 | 0-15 | 73 | B | 68 | C | 70 | C | 0 | 10 | 6 |
| 38 | LA06148C-P30 | 124 | 12 | 33 | 33 | 0-18 | 68 | C | 44 | E | 60 | C | 1 | 10 | 1 |
| 39 | M05-1526 | 125 | 26 | 34 | 36 | 0-17 | 77 | B | 70 | B | 69 | C | 1 | 60 | 3 |
| 40 | M08-8036#__ | 125 | 18 | 33 | 24 | 0-15 | 74 | B | 68 | C | 57 | D | 0 | 20 | 6 |
| 41 | MD03W61-09-7 | 126 | 39 | 33 | 32 | 0-13 | 70 | B | 61 | C | 61 | C | 6 | 80 | 0 |
| 42 | MD03W61-10-2 | 126 | 36 | 32 | 12 | 0-17 | 65 | C | 62 | C | 65 | C | 6 | 80 | 0 |
| 43 | MD03W665-10-5 | 125 | 28 | 30 | 2 | 0-14 | 70 | C | 76 | B | 72 | B | 1 | 80 | 0 |
| 44 | MD03W69-15 | 127 | 46 | 33 | 27 | 0-15 | 72 | B | 71 | B | 76 | B | 6 | 70 | 3 |
| 45 | NC05-15-99 | 129 | 56 | 42 | 60 | 0-17 | 55 | D | 29 | F | 41 | E | 2 | seg5-50 | 3 |
| 46 | NC05-39-314 | 124 | 9 | 33 | 28 | 0-15 | 75 | B | 70 | C | 72 | B | 4 | 60 | 4 |
| 47 | NC05-39-337 | 123 | 4 | 33 | 18 | 0-19 | 80 | A | 79 | B | 72 | B | 3 | 70 | 3 |
| 48 | NC05-39-349 | 123 | 3 | 33 | 20 | 0-15 | 78 | B | 76 | B | 69 | C | 2 | 70 | 2 |
| 49 | NC05-39-354 | 124 | 10 | 32 | 16 | 0-17 | 76 | B | 75 | B | 73 | B | 2 | 70 | 5 |
| 50 | NC05-39-370 | 123 | 6 | 34 | 39 | 0-16 | 76 | B | 65 | C | 66 | C | 4 | 70 | 5 |
| 51 | NC05-39-380 | 123 | 8 | 33 | 23 | 0-14 | 79 | B | 77 | B | 70 | B | 4 | 70 | 4 |
| 52 | NC06-16-26-988 | 127 | 49 | 33 | 31 | 2-10 | 75 | B | 70 | C | 53 | D | 1 | 90 | 0 |
| 53 | NC99-13022 | 128 | 52 | 33 | 17 | 0-14 | 76 | B | 47 | E | 56 | D | 2 | 70 | 4 |
| 54 | VA05W-251 | 127 | 40 | 32 | 14 | 0-13 | 77 | B | 71 | B | 51 | D | 0 | 90 | 1 |
| 55 | VA08W-176 | 128 | 50 | 34 | 41 | 0-17 | 70 | B | 80 | B | 66 | C | 0 | 10 | 1 |
| 56 | VA08W-193 | 127 | 44 | 33 | 22 | 0-18 | 72 | B | 62 | C | 68 | C | 0 | 10 | 3 |
| 57 | VA08W-294 | 127 | 41 | 33 | 19 | 0-19 | 63 | C | 58 | D | 68 | C | 0 | 5 | 0 |
| 58 | VA08W-613 | 125 | 19 | 32 | 15 | 0-20 | 69 | C | 57 | D | 63 | C | 1 | 50 | 0 |
| 59 | VA09W-623 | 126 | 37 | 34 | 42 | 0-18 | 75 | B | 69 | C | 52 | D | 2 | 5 | 1 |
| 60 | VA09W-656 | 127 | 45 | 35 | 45 | 0-17 | 70 | C | 63 | C | 54 | D | 1 | 20 | 1 |
| | Mean | 125 | | 34 | | . | 72 | | 60 | | 59 | | . | . | 2 |
| | LSD (0.05) | 3 | | 3 | | . | . | | . | | . | | . | . | . |
| | CV% | 1.3 | | 4.5 | | . | . | | . | | . | | . | . | . |

# Means Across 2010 and 2011

| | 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 | 43 | *1* | 22 | *1* | 12 | *1* | 18 | *5* | 30 | *3* | 9 | *6* | 126 | 32 | 59 | 61 | 63 |
| 2 | C9835 | 69 | *8* | 57 | *8* | 42 | *8* | 40 | *8* | 56 | *8* | 21 | *8* | 129 | 31 | 64 | 59 | 82 |
| 3 | BESS | 43 | *1* | 22 | *1* | 12 | *1* | 8 | *1* | 26 | *1* | 8 | *3* | 128 | 36 | 66 | 55 | 61 |
| 4 | JAMESTOWN | 47 | *4* | 25 | *5* | 14 | *4* | 16 | *4* | 32 | *5* | 8 | *3* | 125 | 31 | 61 | 49 | 65 |
| 5 | ARS04-1267 | 48 | *5* | 29 | *7* | 16 | *7* | 18 | *5* | 32 | *5* | 14 | *7* | 127 | 34 | 67 | 24 | 11 |
| 6 | M08*8005# | 46 | *3* | 26 | *6* | 13 | *3* | 14 | *2* | 29 | *2* | 7 | *1* | 125 | 34 | 73 | 72 | 68 |
| 7 | MD03W61-09-1 | 52 | *7* | 22 | *1* | 15 | *6* | 15 | *3* | 30 | *3* | 8 | *3* | 127 | 34 | 62 | 45 | 56 |
| 8 | VA09W-641 | 49 | *6* | 24 | *4* | 14 | *4* | 19 | *7* | 33 | *7* | 7 | *1* | 125 | 33 | 66 | 54 | 60 |
| | Mean | 49 | | 28 | | 17 | | 18 | | 33 | | 10 | | 126 | 33 | 64 | 52 | 58 |
| | LSD (0.05) | 13 | | 7 | | 5 | | 5 | | 7 | | 4 | | 1 | 2 | ns | 18 | 10 |
| | CV% | 10.9 | | 9.8 | | 12.5 | | 11.7 | | 8.8 | | 16.1 | | 0.4 | 2.6 | 6.6 | 14.2 | 7.4 |