

SOUTHERN UNIFORM WINTER WHEAT SCAB NURSERY

2010 NURSERY REPORT

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RESEARCH UPDATES/REPORTS/PUBLICATIONS

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LOCATION NOTES

Bay, Arkansas

- Cooperator: June Hancock, David Hill.
- Agripro-Syngenta Seeds Inc.
- Reps: 2 RCB. Plot size: 2 row x 3'.
- Field inoculation method Scabby corn kernels.
- Precipitation during grain fill: Misted daily. Plus rains almost daily from mid-April with considerable natural infection in regular plots..

Fayetteville, Arkansas

- Cooperator: Gene Milus
- University of Arkansas
- Reps: 3 RCB. Plot size: 2 row x 4'.
- Field inoculation method: Colonized corn kernels.
- Precipitation during grain fill: Misted daily.
- Greenhouse inoculation method: Heads spray-inoculated at flowering, bagged, and incubated in a growth chamber at 23C. Bags removed after 48 hr. Blighted florets counted at 5, 14 and 21 days and converted to percentage of florets blighted. Percentage at 5 days is a measure of type I. AUDPC from 5 to 21 days is a measure of type II.

Urbana, Illinois

- Cooperators: Fred Kolb and Eric Brucker.
- University of Illinois
- Reps: 3 RCB. Plot size: 1 row x 3'.
- Field inoculation method: corn spawn.
- Precipitation during grain fill: Misted four times per day for 60 minutes each during flowering.

Lexington, Kentucky

- Cooperators: Nicki Mundell and Dave Van Sanford
- University of Kentucky
- Reps: 2 RCB. Plot size: one 4' row. Seed date: 10/20/09. Harvest date: 6/30/10
- Fertilizer: P, K, according to soil tests, 110 lb N split application
- Field inoculation method: scabby corn
- Precipitation during grain fill: 8.3 in plus mist irrigation.
- Avg temperature during grain fill: 73°F.

Blacksburg, Virginia

- Cooperators: Carl A. Griffey, Shuyu Liu, Patty Gundrum.
- Virginia Tech
- Reps: 2. Plot size: Two rows 4' long.
- Field inoculation method: conidial suspension (5×10^4). Multiple sprays.
- Due to the low temperature and humidity at critical infection time, the overall infection is low at Blacksburg this year, especially for those late lines.
- Greenhouse inoculation method: point inoculation.

Kinston, North Carolina

- Cooperators: Rene Navarro, Paul Murphy, Christina Cowger
- North Carolina State University
- Reps: 2 RCB. Plot size: 4 rows x 3.5' long. Seed date: 10/21/2009. Harvest date: 6/7/2010.
- Fertilizer: 130 lbs N split application. P and K as per soil test.
- Field Inoculation method: Conidial suspension (3×10^4 spores/ml) sprayed on plots at anthesis. Scabby corn distributed three weeks prior to anthesis.
- Precipitation during grain fill: Misted three times per day for 3 weeks beginning at anthesis.
- Greenhouse: point inoculation with 10 μ L at 50,000 spores per ml.
- Avg temp. during grain fill: Day 73 F.

Columbia, Missouri

- Cooperators: Anne L. McKendry and David Tague.
- University of Missouri
- Fertilizer: 40 Fall/80 Spring N.
- Reps: 3 RCB. Plot size: 4 rows x 3', 7" spacing.
- Field inoculation method: The nursery was planted into corn stubble. Each entry was inoculated at 75% anthesis using overhead spray at a rate of 70,000 spores/ml. 10 heads/plot/rep were evaluated. Severity ratings were taken 18 days post-inoculation of each entry. FDK were assessed on a visual scale following threshing using a Vogel thresher with the air closed completely. Grain was hand-cleaned prior to assessing FDK.
- Precipitation during grain fill: Overhead mist irrigation.
- Greenhouse: point inoculation with 10 μ L at 50,000 spores per ml. Misted 72 hours, rated 21 days after inoculation.
- Stands were surprisingly good, however, the spring and summer were again extremely wet and natural infection may have confounded some results.

Salisbury, Maryland.

- Cooperators: Jose Costa, and Aaron Cooper.
- University of Maryland.
- Reps: 2 RCB. Plot size: 1 rows x 4' long.
- Fertilizer: 110 lbs N.
- Field inoculation method: Scabby corn grain infected with Fusarium scattered three weeks before anthesis.

Brookston, Indiana

- Cooperator: Barton Fogleman,
Agripro-Syngenta Seeds Inc.

Crowley, Louisiana.

- Cooperators: Harrison, Padgett, Growth, Arceneaux, Purvis and Strickland.
- Louisiana State University.
Test was lost this season

Griffin, Georgia

- Cooperator: Jerry Johnson.
- University of Georgia.

Fundulea, Romania.

- Cooperator: Marianna Iltu.
- National Agricultural Research Development Institute.
- Seed date: 10/22/08. Harvest date: 7/03/09.
- Fertilizer: 110 kg N
- Two replications. Plot size: 150cm x 30cm.
- Field inoculation method: Syringe (point) inoculation at anthesis with two *F. graminearum* and *F. culmorum* isolates. Twenty - 25 heads inoculated per replication per isolate.
- Field scoring: Percent of damaged spikelets at 10 and 20 days post inoculation.
- Precipitation during grain fill: 64 mm (variable for the same period over 43 yrs=67 mm)

Raleigh, North Carolina

Cooperator: Gina Brown-Guedira

USDA-ARS Eastern Regional Small Grains Genotyping Lab

- SSR Analyses

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.



**Fusarium Head Blight Inoculated
Nursery, Ben Hur Farm,
Baton Rouge, LA.
May 10 2010.**

**Fusarium Head Blight Infected
Wheat Spike,
Ben Hur Farm,
Baton Rouge, LA.
May 10 2010.**



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

Entry List and Pedigrees, 2010 Nursery

| ENTRY NO | CULTIVAR/ DESIGNATION | PEDIGREE | CONTRIBUTOR | IN NURSERY SINCE |
|----------|-----------------------|---|-------------|------------------|
| 1 | ERNIE | Pike /3/ Stoddard / Blueboy // Stoddard D1707 | CHECK(RES) | 1999-00 |
| 2 | COKER 9835 | CK68-19 // CK61-19*3 / IN4946A4-18-2-10-2 /4/ Bb /3/ CK65-20*5 / W17-TRANS // TIFT /5/ P 2550 | CHECK(SUS) | 2000-01 |
| 3 | BESS | MO11769/Madison | CHECK(RES) | 2006-07 |
| 4 | JAMESTOWN | Roane / Pioneer 2691 | Check (RES) | 2007-08 |
| 5 | LA01164D-94-2 | LA422/FUTA18944//PIONEER 26R61 | Harrison | 2007-08 |
| 6 | 03M1539#031 | GIBSON/92226E2-5-3 | Fogleman | 2008-09 |
| 7 | AR 99054-4-1 | AR679-9-1-2 / Roane | Bacon | 2008-09 |
| 8 | ARS03-4736 | KS00U755/TAM 303 (=WX02ARS113-9) | Marshall | 2008-09 |
| 9 | ARS05-1234 | KS2016-U2/Lakin (=WX03ARS1080-19) | Marshall | 2008-09 |
| 10 | LA01141D-98-6-2 | LA841/PI225160/LA841 | Harrison | 2008-09 |
| 11 | 03M1539#019 | Gibson/92226E2-5-3 | Fogleman | 2009-10 |
| 12 | AR99092-4-1 | AR837-4-1-1/P86300RB1-4-3-2-104 | Bacon | 2009-10 |
| 13 | AR99102-4-1 | Pat/P92118B4-2 | Bacon | 2009-10 |
| 14 | AR99160-1-1-B | Ernie/PI590277/Ernie | Bacon | 2009-10 |
| 15 | AR99264-8-1 | P92118B4-2/Saluda | Bacon | 2009-10 |
| 16 | AR99311-12-1 | Roane/Coker 9704 | Bacon | 2009-10 |
| 17 | ARGE97-1042-4-5-20 | Mason / Catbird | Milus | 2009-10 |
| 18 | ARGE97-1047-4-2-9 | P2684/N7840//Parula/Veery#6 | Milus | 2009-10 |
| 19 | ARGE97-1048-3-6-7 | Mason/SHA3/Catbird | Milus | 2009-10 |
| 20 | ARS04-1267 | KS98HW151-6/KS01HW101(01-6101) (=KS2135-U54) | Marshall | 2009-10 |
| 21 | ARS05-0005 | TX85-264*2/TTCC512 | Marshall | 2009-10 |
| 22 | ARS05-0043 | TAM 303*2/TTCC365 | Marshall | 2009-10 |
| 23 | ARS05-0277 | WX98D011-U38/TX99D4657 | Marshall | 2009-10 |
| 24 | ARS07 0095 | AR93005-6-5/MO002021 | Marshall | 2009-10 |
| 25 | ARS07-0203 | FL9547/NC00-14622 | Marshall | 2009-10 |
| 26 | GA031188-O15 | VA476 / AGS 2485 | Johnson | 2009-10 |
| 27 | GA031188-O16 | VA476 / AGS 2485 | Johnson | 2009-10 |
| 28 | GA031188-O17 | VA476 / AGS 2485 | Johnson | 2009-10 |
| 29 | GA041243-LE36 | VA461 / AGS2000 // GA96229-3E39 | Johnson | 2009-10 |
| 30 | GA041260-Q19 | McCormick / *2 GA951216-2E26 | Johnson | 2009-10 |
| 31 | GA041271-PL49 | McCormick / GA951216-2E26 // GA96229-3E39 | Johnson | 2009-10 |
| 32 | GA041271-Q23 | McCormick / GA951216-2E26 // GA96229-3E39 | Johnson | 2009-10 |
| 33 | GA041271-Q24 | McCormick / GA951216-2E26 // GA96229-3E39 | Johnson | 2009-10 |
| 34 | LA01141D-98-6-3 | LA841/PI225160/LA841 | Harrison | 2009-10 |
| 35 | LA02058E63 | LA94242D4-2(VA92-54-104/MOREY SIB)/AM-CIM-FHB6(MILAN/SHA7) | Harrison | 2009-10 |
| 36 | LA02058E97 | LA94242D4-2/AM-CIM-FHB6(MILAN/SHA7) | Harrison | 2009-10 |
| 37 | LA03130E68 | 2(FL302/KS93WGRC32) | Harrison | 2009-10 |
| 38 | LA03186E2 | 1/SWM16395//PIO2684) | Harrison | 2009-10 |
| 39 | LA04142C-P5 | AR857-1-1(MADISON/YMI 6)/LA841 | Harrison | 2009-10 |
| 40 | M08*8005# | Branson/M99*3098 | Fogleman | 2009-10 |
| 41 | MD01W233-07-1 | McCormick/Choptank | Costa | 2009-10 |
| 42 | MD02W135-08-9 | Sisson/McCormick | Costa | 2009-10 |
| 43 | MD03W61-09-1 | P25R42/Chesapeake | Costa | 2009-10 |
| 44 | MD03W91-09-7 | P25R42/Tribute | Costa | 2009-10 |
| 45 | NC07-21036 | NC96-13155 / ROANE // Tribute | Murphy | 2009-10 |
| 46 | NC07-23081 | IL94-1909 / ROANE // NC96-13965 | Murphy | 2009-10 |
| 47 | NC07-23126 | CIM1FHB#5 / NC96-14629 // TRIBUTE | Murphy | 2009-10 |
| 48 | NC07-23771 | NC96-13965 / I164-1-127 // NC96-13155 | Murphy | 2009-10 |
| 49 | NC07-24445 | USG 3209 / NC98-26541 | Murphy | 2009-10 |
| 50 | VA06W-580 | Roane / Pion 2684//OH 552 (P71761A4-31-5-33/MD55-286-21: FHB-RES),F9 | Griffey | 2009-10 |
| 51 | VA07W-569 | ROANE / ERNIE// McCORMICK,F10 | Griffey | 2009-10 |
| 52 | VA08W-622 | FREEDOM / NEUSE"S" (NC96-13374// VA98W-688(Roane"S" (91-54-219)// FFR555W/GORE),F9 | Griffey | 2009-10 |
| 53 | VA08W-630 | OH 552(P71761A4-31-5-33/MD55-286-21: FHB-RES)/SS550 (VA96W-247= CK9803/FREEDOM)/RC STRAT | Griffey | 2009-10 |
| 54 | VA08W-653 | COKER 9474(FHB-RES)/ NEUSE"S" (NC96-13374),F8 | Griffey | 2009-10 |
| 55 | VA08W-709 | ERNIE / AGS2000 // TRIBUTE,F7 | Griffey | 2009-10 |
| 56 | VA09W-641 | ERNIE/ NC96-13374(SCAB RES) //McCORMICK,F8 | Griffey | 2009-10 |
| 57 | VA09W-654 | VA98W-749(GA821066-1-7-2-1 (GA73054//STACY/AL"S")/CK9803/ FREEDOM)/IL96-3073(SCAB RES) //97 | Griffey | 2009-10 |
| 58 | W1104 | Hopewell/M94-1107 | Fogleman | 2009-10 |

FHB Incidence (1-100)

| CULTIVAR/ DESIGNATION | COL'BIA MO | S'BURY MD | B'BURG VA | URBANA IL | B'KTON IN | LEX'TON KY | BAY AR | GRIFFIN GA | MEAN ALL LOC. | RANK |
|--------------------------|---------------|--------------|--------------|--------------|--------------|---------------|-----------|---------------|------------------|------|
| 1 ERNIE | 93 | . | 10 | 97 | 6 | 50 | 35 | 15 | 39 | 1 |
| 2 COKER 9835 | 100 | 20 | 15 | 100 | 60 | 85 | 100 | 41 | 63 | 51 |
| 3 BESS | 71 | 10 | 10 | 93 | 3 | 50 | 95 | 19 | 43 | 3 |
| 4 JAMESTOWN | 98 | 20 | 13 | 95 | 3 | 75 | 80 | 21 | 47 | 6 |
| 5 LA01164D-94-2 | 95 | 25 | 10 | 95 | 14 | 80 | 100 | 18 | 54 | 31 |
| 6 03M1539#031 | 100 | 25 | 18 | 98 | 10 | 75 | 100 | 23 | 57 | 39 |
| 7 AR 99054-4-1 | 98 | 30 | 13 | 98 | 10 | 90 | 75 | 13 | 52 | 22 |
| 8 ARS03-4736 | 100 | 20 | 15 | 98 | 16 | 100 | 90 | 5 | 55 | 32 |
| 9 ARS05-1234 | 100 | 20 | 13 | 98 | 14 | 65 | 85 | 10 | 49 | 9 |
| 10 LA01141D-98-6-2 | 98 | 45 | 18 | 100 | 20 | 95 | 100 | 31 | 61 | 48 |
| 11 03M1539#019 | 100 | 15 | 8 | 100 | 18 | 75 | 100 | 14 | 53 | 29 |
| 12 AR99092-4-1 | 88 | 25 | 8 | 95 | 20 | 65 | 100 | 7 | 51 | 17 |
| 13 AR99102-4-1 | 97 | 10 | 10 | 100 | 28 | 90 | 90 | 9 | 53 | 29 |
| 14 AR99160-1-1-B | 92 | 50 | 8 | 93 | 15 | 45 | 95 | 2 | 47 | 6 |
| 15 AR99264-8-1 | 100 | 5 | 8 | 92 | 38 | 95 | 95 | 17 | 56 | 35 |
| 16 AR99311-12-1 | 100 | 33 | 18 | 98 | 28 | 95 | 90 | 23 | 58 | 42 |
| 17 ARGE97-1042-4-5-20 | 92 | 25 | 5 | 93 | 2 | 35 | 50 | 5 | 39 | 1 |
| 18 ARGE97-1047-4-2-9 | 90 | 45 | 5 | 70 | 3 | 60 | 50 | 9 | 45 | 4 |
| 19 ARGE97-1048-3-6-7 | 97 | 50 | 8 | 97 | 4 | 75 | 100 | 5 | 52 | 22 |
| 20 ARS04-1267 | 95 | 40 | 20 | 95 | 6 | 35 | 95 | 11 | 49 | 9 |
| 21 ARS05-0005 | 100 | 15 | 23 | 100 | 50 | 95 | 85 | 6 | 58 | 42 |
| 22 ARS05-0043 | 100 | 25 | 13 | 98 | 20 | 70 | 75 | 13 | 50 | 13 |
| 23 ARS05-0277 | 100 | 50 | 20 | 100 | 53 | 80 | 100 | 7 | 64 | 53 |
| 24 ARS07 0095 | 98 | 35 | 23 | 95 | 45 | 90 | 100 | 7 | 62 | 50 |
| 25 ARS07-0203 | 100 | 10 | 28 | 100 | 45 | 95 | 95 | 8 | 59 | 45 |
| 26 GA031188-O15 | 100 | 35 | 20 | 100 | 78 | 100 | 95 | 26 | 69 | 58 |
| 27 GA031188-O16 | 100 | 55 | 8 | 100 | 63 | 100 | 100 | 16 | 65 | 55 |
| 28 GA031188-O17 | 100 | 40 | 10 | 98 | 65 | 85 | 100 | 29 | 65 | 55 |
| 29 GA041243-LE36 | 98 | 20 | 15 | 97 | 43 | 90 | 100 | 61 | 64 | 53 |
| 30 GA041260-Q19 | 98 | 30 | 15 | 100 | 35 | 80 | 100 | 54 | 59 | 45 |
| 31 GA041271-PL49 | 100 | 25 | 23 | 87 | 55 | 100 | 90 | 18 | 61 | 48 |
| 32 GA041271-Q23 | 100 | 35 | 18 | 100 | 80 | 100 | 55 | 36 | 63 | 51 |
| 33 GA041271-Q24 | 100 | 23 | 23 | 95 | 80 | 100 | 90 | 29 | 67 | 57 |
| 34 LA01141D-98-6-3 | 98 | 25 | 15 | 100 | 28 | 100 | 100 | 30 | 59 | 45 |
| 35 LA02058E63 | 93 | 30 | 10 | 98 | 23 | 65 | 80 | 8 | 49 | 9 |
| 36 LA02058E97 | 100 | 45 | 8 | 98 | 20 | 80 | 100 | 18 | 58 | 42 |
| 37 LA03130E68 | 98 | 30 | 8 | 97 | 38 | 60 | 85 | 14 | 51 | 17 |
| 38 LA03186E2 | 100 | 45 | 15 | 100 | 38 | 90 | 70 | 15 | 56 | 35 |
| 39 LA04142C-P5 | 100 | 35 | 13 | 93 | 38 | 85 | 100 | 15 | 57 | 39 |
| 40 M08*8005# | 98 | 45 | 13 | 90 | 5 | 65 | 100 | 11 | 52 | 22 |
| 41 MD01W233-07-1 | 100 | 10 | 10 | 100 | 13 | 100 | 100 | 11 | 55 | 32 |
| 42 MD02W135-08-9 | 95 | 20 | 10 | 97 | 20 | 80 | 90 | 17 | 52 | 22 |
| 43 MD03W61-09-1 | 100 | 15 | 13 | 100 | 4 | 100 | 75 | 8 | 50 | 13 |
| 44 MD03W91-09-7 | 100 | 35 | 8 | 97 | 2 | 50 | 55 | 8 | 45 | 4 |
| 45 NC07-21036 | 100 | 5 | 10 | 97 | 10 | 95 | 90 | 8 | 51 | 17 |
| 46 NC07-23081 | 100 | 8 | 10 | 95 | 4 | 55 | 95 | 28 | 50 | 13 |
| 47 NC07-23126 | 100 | 15 | 10 | 93 | 8 | 80 | 75 | 25 | 50 | 13 |
| 48 NC07-23771 | 100 | 20 | 10 | 98 | 20 | 50 | 100 | 32 | 51 | 17 |
| 49 NC07-24445 | 100 | 15 | 13 | 97 | 25 | 100 | 85 | 14 | 55 | 32 |
| 50 VA06W-580 | 100 | 35 | 15 | 93 | 4 | 60 | 80 | 16 | 51 | 17 |
| 51 VA07W-569 | 100 | 5 | 13 | 97 | 13 | 70 | 95 | 17 | 52 | 22 |
| 52 VA08W-622 | 98 | 43 | 5 | 95 | 23 | 75 | 95 | 23 | 56 | 35 |
| 53 VA08W-630 | 100 | 10 | 18 | 100 | 15 | 90 | 100 | 30 | 57 | 39 |
| 54 VA08W-653 | 100 | 10 | 8 | 100 | 8 | 100 | 100 | 35 | 56 | 35 |
| 55 VA08W-709 | 97 | 0 | 10 | 93 | 13 | 70 | 100 | 10 | 48 | 8 |
| 56 VA09W-641 | 95 | 35 | 10 | 87 | 5 | 85 | 95 | 16 | 52 | 22 |
| 57 VA09W-654 | 100 | 0 | 5 | 95 | 20 | 100 | 95 | 18 | 52 | 22 |
| 58 W1104 | 97 | 3 | 5 | 100 | 5 | 80 | 95 | 10 | 49 | 9 |
| Mean | 98 | 25 | 12 | 96 | 24 | 79 | 89 | 18 | 54 | |
| LSD (0.05) | . | 29.7 | 8.8 | 5.5 | . | 21 | . | . | 24 | |
| CV% | . | 59.6 | 42.3 | 4.2 | . | 22.9 | . | . | 22.4 | |

FHB Severity (1-100)

| CULTIVAR/ DESIGNATION | BAY | | F'VILLE (1) | | F'VILLE (2) | | COL'BIA | S'BURY | B'BURG | URBANA | KINSTON | LEX'TON | B'KTON | FUN'LEA ¹ | MEAN | | | | | | | | | |
|--------------------------|------|------|-------------|------|-------------|------|---------|--------|--------|--------|---------|---------|--------|----------------------|----------|----|----|----|----|----|-----|----|----|----|
| | AR | | AR | | AR | | MO | MD | VA | IL | NC | KY | IN | ROM | ALL LOC. | | | | | | | | | |
| | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | | | | | | | | | |
| 1 ERNIE | 5 | 1 | 23 | 19 | 25 | 13 | 22 | 6 | . | 10 | 4 | 22 | 1 | 46 | 47 | 30 | 11 | 3 | 5 | 36 | 9 | 20 | 4 | |
| 2 COKER 9835 | 44 | 58 | 75 | 52 | 75 | 53 | 72 | 55 | 18 | 47 | 25 | 49 | 75 | 52 | 40 | 41 | 88 | 54 | 38 | 47 | 81 | 38 | 57 | 53 |
| 3 BESS | 19 | 22 | 17 | 5 | 22 | 10 | 23 | 7 | 5 | 9 | 10 | 4 | 47 | 31 | 25 | 11 | 19 | 2 | 5 | 9 | 60 | 21 | 23 | 8 |
| 4 JAMESTOWN | 12 | 6 | 18 | 8 | 30 | 25 | 27 | 14 | 13 | 37 | 28 | 54 | 35 | 8 | 17 | 3 | 31 | 13 | 5 | 9 | 28 | 7 | 22 | 5 |
| 5 LA01164D-94-2 | 32 | 47 | 25 | 22 | 28 | 21 | 32 | 26 | 10 | 26 | 13 | 23 | 38 | 16 | 48 | 48 | 64 | 40 | 18 | 30 | 66 | 24 | 34 | 37 |
| 6 03M1539#031 | 34 | 52 | 20 | 11 | 37 | 35 | 42 | 42 | 10 | 26 | 13 | 23 | 68 | 47 | 39 | 39 | 28 | 9 | 28 | 42 | 20 | 5 | 31 | 26 |
| 7 AR 99054-4-1 | 9 | 5 | 30 | 31 | 28 | 21 | 32 | 26 | 10 | 26 | 13 | 23 | 59 | 40 | 17 | 3 | 60 | 35 | 35 | 45 | 68 | 27 | 33 | 34 |
| 8 ARS03-4736 | 22 | 29 | 30 | 31 | 37 | 35 | 33 | 29 | 30 | 57 | 10 | 4 | 35 | 8 | 50 | 52 | 35 | 16 | 3 | 5 | 68 | 27 | 32 | 31 |
| 9 ARS05-1234 | 18 | 17 | 20 | 11 | 32 | 28 | 46 | 45 | 15 | 43 | 20 | 44 | 63 | 43 | 39 | 39 | 62 | 38 | 4 | 7 | 84 | 39 | 37 | 40 |
| 10 LA01141D-98-6-2 | 32 | 47 | 40 | 44 | 42 | 46 | 44 | 43 | 20 | 49 | 18 | 40 | 50 | 32 | 43 | 43 | 87 | 53 | 13 | 23 | 51 | 15 | 40 | 43 |
| 11 03M1539#019 | 18 | 17 | 30 | 31 | 40 | 41 | 34 | 32 | 13 | 37 | 20 | 44 | 52 | 35 | 25 | 11 | 46 | 25 | 11 | 21 | 66 | 24 | 32 | 31 |
| 12 AR99092-4-1 | 24 | 35 | 27 | 24 | 30 | 25 | 23 | 7 | 8 | 16 | 10 | 4 | 45 | 27 | 25 | 11 | 30 | 11 | 10 | 17 | 71 | 32 | 27 | 13 |
| 13 AR99102-4-1 | 18 | 17 | 32 | 36 | 33 | 31 | 49 | 50 | 8 | 16 | 15 | 31 | 69 | 49 | 36 | 34 | 65 | 41 | 13 | 23 | 100 | 50 | 40 | 43 |
| 14 AR99160-1-1-B | 21 | 27 | 25 | 22 | 18 | 4 | 17 | 3 | 13 | 37 | 10 | 4 | 50 | 32 | 20 | 6 | 28 | 9 | 13 | 23 | 97 | 46 | 28 | 17 |
| 15 AR99264-8-1 | 21 | 27 | 35 | 41 | 27 | 17 | 26 | 11 | 5 | 9 | 13 | 23 | 40 | 17 | 20 | 6 | 61 | 37 | 25 | 39 | 68 | 27 | 31 | 26 |
| 16 AR99311-12-1 | 16 | 15 | 45 | 48 | 40 | 41 | 38 | 38 | 18 | 47 | 18 | 40 | 55 | 36 | 30 | 20 | 54 | 31 | 18 | 30 | 36 | 9 | 33 | 34 |
| 17 ARGE97-1042-4-5-2 | 5 | 1 | 23 | 19 | 13 | 1 | 16 | 2 | 10 | 26 | 10 | 4 | 36 | 11 | 25 | 11 | 15 | 1 | 5 | 9 | 29 | 8 | 17 | 1 |
| 18 ARGE97-1047-4-2-9 | 6 | 3 | 12 | 1 | 15 | 2 | 17 | 3 | 8 | 16 | 10 | 4 | 23 | 2 | 58 | 56 | 24 | 6 | 1 | 1 | 16 | 3 | 17 | 1 |
| 19 ARGE97-1048-3-6-7 | 22 | 29 | 12 | 1 | 15 | 2 | 33 | 29 | 15 | 43 | 10 | 4 | 36 | 11 | 48 | 48 | 27 | 8 | 2 | 2 | 70 | 31 | 26 | 11 |
| 20 ARS04-1267 | 18 | 17 | 17 | 5 | 20 | 7 | 33 | 29 | 13 | 37 | 23 | 49 | 40 | 17 | 34 | 31 | 23 | 5 | 11 | 21 | 95 | 43 | 30 | 22 |
| 21 ARS05-0005 | 19 | 22 | 42 | 46 | 42 | 46 | 48 | 48 | 10 | 26 | 20 | 44 | 79 | 54 | 58 | 56 | 84 | 50 | 23 | 35 | 100 | 50 | 48 | 48 |
| 22 ARS05-0043 | 15 | 12 | 22 | 16 | 27 | 17 | 39 | 39 | 3 | 3 | 13 | 23 | 45 | 27 | 36 | 34 | 43 | 24 | 10 | 17 | 48 | 14 | 27 | 13 |
| 23 ARS05-0277 | 34 | 52 | 42 | 46 | 43 | 48 | 44 | 43 | 25 | 53 | 15 | 31 | 85 | 58 | 45 | 45 | 79 | 46 | 53 | 51 | 100 | 50 | 51 | 49 |
| 24 ARS07 0095 | 34 | 52 | 47 | 49 | 38 | 37 | 70 | 54 | 25 | 53 | 20 | 44 | 51 | 34 | 25 | 11 | 48 | 29 | 35 | 45 | 99 | 48 | 45 | 47 |
| 25 ARS07-0203 | 25 | 37 | 60 | 50 | 60 | 50 | 56 | 51 | 10 | 26 | 25 | 49 | 74 | 50 | 33 | 27 | 78 | 45 | 60 | 52 | 100 | 50 | 53 | 50 |
| 26 GA031188-O15 | 30 | 45 | 92 | 58 | 83 | 55 | 63 | 52 | 20 | 49 | 25 | 49 | 77 | 53 | 53 | 54 | 81 | 49 | 80 | 58 | 96 | 44 | 64 | 55 |
| 27 GA031188-O16 | 28 | 41 | 75 | 52 | 85 | 57 | 76 | 56 | 20 | 49 | 40 | 56 | 68 | 47 | 50 | 52 | 89 | 56 | 70 | 55 | 100 | 50 | 64 | 55 |
| 28 GA031188-O17 | 41 | 57 | 78 | 54 | 87 | 58 | 83 | 57 | 15 | 43 | 50 | 58 | 74 | 50 | 48 | 48 | 80 | 48 | 73 | 57 | 98 | 47 | 66 | 58 |
| 29 GA041243-LE36 | 26 | 39 | 33 | 38 | 40 | 41 | 48 | 48 | 10 | 26 | 15 | 31 | 37 | 13 | 27 | 17 | 62 | 38 | 30 | 43 | 61 | 23 | 35 | 39 |
| 30 GA041260-Q19 | 33 | 49 | 70 | 51 | 68 | 51 | 46 | 45 | 20 | 49 | 25 | 49 | 84 | 57 | 53 | 54 | 67 | 43 | 50 | 50 | 100 | 50 | 56 | 52 |
| 31 GA041271-PL49 | 34 | 52 | 82 | 56 | 77 | 54 | 34 | 32 | 25 | 53 | 20 | 44 | 60 | 41 | 45 | 45 | 79 | 46 | 63 | 53 | 96 | 44 | 56 | 51 |
| 32 GA041271-Q23 | 14 | 9 | 88 | 57 | 83 | 55 | 91 | 58 | 25 | 53 | 38 | 55 | 80 | 55 | 38 | 36 | 99 | 58 | 65 | 54 | 100 | 50 | 65 | 57 |
| 33 GA041271-Q24 | 19 | 22 | 78 | 54 | 72 | 52 | 65 | 53 | 13 | 37 | 45 | 57 | 63 | 43 | 65 | 58 | 84 | 50 | 70 | 55 | 100 | 50 | 61 | 54 |
| 34 LA01141D-98-6-3 | 33 | 49 | 38 | 43 | 30 | 25 | 46 | 45 | 10 | 26 | 10 | 4 | 56 | 37 | 33 | 27 | 92 | 57 | 13 | 23 | 54 | 17 | 38 | 41 |
| 35 LA02058E63 | 19 | 22 | 33 | 38 | 32 | 28 | 29 | 18 | 8 | 16 | 13 | 23 | 57 | 38 | 38 | 36 | 22 | 4 | 25 | 39 | 99 | 49 | 34 | 37 |
| 36 LA02058E97 | 23 | 32 | 35 | 41 | 33 | 31 | 34 | 32 | 10 | 26 | 18 | 40 | 62 | 42 | 48 | 48 | 60 | 35 | 20 | 34 | 100 | 50 | 40 | 43 |
| 37 LA03130E68 | 15 | 12 | 18 | 8 | 27 | 17 | 32 | 26 | 13 | 37 | 8 | 1 | 37 | 13 | 12 | 1 | 26 | 7 | 38 | 47 | 18 | 4 | 22 | 5 |
| 38 LA03186E2 | 12 | 6 | 27 | 24 | 25 | 13 | 39 | 39 | 10 | 26 | 15 | 31 | 81 | 56 | 40 | 41 | 86 | 52 | 30 | 43 | 60 | 21 | 39 | 42 |
| 39 LA04142C-P5 | 23 | 32 | 27 | 24 | 18 | 4 | 30 | 22 | 10 | 26 | 13 | 23 | 41 | 22 | 14 | 2 | 77 | 44 | 40 | 49 | 47 | 12 | 31 | 26 |
| 40 M08*8005# | 24 | 35 | 20 | 11 | 20 | 7 | 26 | 11 | 8 | 16 | 15 | 31 | 40 | 17 | 33 | 27 | 31 | 13 | 13 | 23 | 84 | 39 | 28 | 17 |
| 41 MD01W233-07-1 | 25 | 37 | 22 | 16 | 23 | 11 | 34 | 32 | 3 | 3 | 10 | 4 | 40 | 17 | 29 | 19 | 65 | 41 | 18 | 30 | 88 | 41 | 32 | 31 |
| 42 MD02W135-08-9 | 16 | 15 | 30 | 31 | 40 | 41 | 34 | 32 | 8 | 16 | 10 | 4 | 42 | 23 | 38 | 36 | 38 | 19 | 18 | 30 | 72 | 33 | 31 | 26 |
| 43 MD03W61-09-1 | 8 | 4 | 18 | 8 | 38 | 37 | 14 | 1 | 8 | 16 | 8 | 1 | 34 | 6 | 20 | 6 | 47 | 28 | 4 | 7 | 14 | 2 | 19 | 3 |
| 44 MD03W91-09-7 | 14 | 9 | 17 | 5 | 20 | 7 | 25 | 10 | 8 | 16 | 8 | 1 | 37 | 13 | 35 | 32 | 37 | 18 | 2 | 2 | 40 | 11 | 22 | 5 |
| 45 NC07-21036 | 13 | 8 | 23 | 19 | 33 | 31 | 28 | 16 | 3 | 3 | 15 | 31 | 46 | 29 | 25 | 11 | 56 | 32 | 9 | 15 | 80 | 37 | 30 | 22 |
| 46 NC07-23081 | 31 | 46 | 22 | 16 | 28 | 21 | 28 | 16 | 5 | 9 | 15 | 31 | 40 | 17 | 35 | 32 | 42 | 22 | 2 | 2 | 12 | 1 | 24 | 10 |
| 47 NC07-23126 | 14 | 9 | 30 | 31 | 40 | 41 | 29 | 18 | 5 | 9 | 10 | 4 | 35 | 8 | 24 | 10 | 38 | 19 | 25 | 39 | 55 | 18 | 28 | 17 |
| 48 NC07-23771 | 33 | 49 | 28 | 27 | 38 | 37 | 30 | 22 | 5 | 9 | 10 | 4 | 67 | 46 | 30 | 20 | 21 | 3 | 14 | 28 | 89 | 42 | 33 | 34 |
| 49 NC07-24445 | 29 | 44 | 40 | 44 | 48 | 49 | 41 | 41 | 3 | 3 | 18 | 40 | 65 | 45 | 31 | 25 | 88 | 54 | 15 | 29 | 76 | 35 | 41 | 46 |
| 50 VA06W-580 | 19 | 22 | 13 | 3 | 23 | 11 | 27 | 14 | 15 | 43 | 10 | 4 | 32 | 4 | 44 | 44 | 35 | 16 | 6 | 12 | 66 | 24 | 26 | 11 |
| 51 VA07W-569 | 23 | 32 | 28 | 27 | 32 | 28 | 26 | 11 | 5 | 9 | 13 | 23 | 44 | 25 | 30 | 20 | 42 | 22 | 23 | 35 | 69 | 30 | 30 | 22 |
| 52 VA08W-622 | 22 | 29 | 20 | 11 | 25 | 13 | 31 | 25 | 8 | 16 | 10 | 4 | 32 | 4 | 18 | 5 | 57 | 33 | 23 | 35 | 56 | 19 | 27 | 13 |
| 53 VA08W-630 | 36 | 56 | 20 | 11 | 27 | 17 | 29 | 18 | 3 | 3 | 15 | 31 | 44 | 25 | 23 | 9 | 59 | 34 | 10 | 17 | 72 | 33 | 31 | 26 |
| 54 VA08W-653 | 28 | 41 | 28 | 27 | 25 | 13 | 36 | 37 | 5 | 9 | 10 | 4 | 42 | 23 | 32 | 26 | 46 | 25 | 6 | 12 | 47 | 12 | 28 | 17 |
| 55 VA08W-709 | 28 | 41 | 32 | 36 | 38 | 37 | 30 | 22 | 0 | 1 | 10 | 4 | 25 | 3 | 30 | 20 | 40 | 21 | 9 | 15 | 52 | 16 | 27 | 13 |
| 56 VA09W-641 | 18 | 17 | 28 | 27 | 28 | 21 | 23 | 7 | 8 | 16 | 15 | 31 | 34 | 6 | 30 | 20 | 31 | 13 | 10 | 17 | 24 | 6 | 23 | 8 |
| 57 VA09W-654 | 15 | 12 | 15 | 4 | 18 | 4 | 20 | 5 | 0 | 1 | 10 | 4 | 58 | 39 | 28 | 18 | 46 | 25 | 23 | 35 | 78 | 36 | 28 | 17 |
| 58 W1104 | 26 | 39 | 33 | 38 | 35 | 34 | 29 | 18 | 3 | 3 | 10 | 4 | 46 | 29 | 33 | 27 | 49 | 30 | 8 | 14 | 57 | 20 | 30 | 22 |

| | | | | | | | | | | | | |
|------------|----|----|----|------|------|------|------|------|------|----|----|------|
| Mean | 22 | 35 | 37 | 37 | 11 | 16 | 50.3 | 33 | 53 | 23 | 68 | 35 |
| LSD (0.05) | . | 14 | 12 | 16 | 13 | 14 | 17 | 21 | 27 | . | . | 24 |
| CV% | . | . | . | 31.6 | 61.4 | 50.0 | 24.9 | 32.1 | 43.3 | . | . | 35.4 |

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

| Cultivar/ Designation | <i>F. gram.</i> Isol 96 | <i>F. culm.</i> Isol 46 | Mean | Rank |
|--------------------------|----------------------------|----------------------------|------|------|
| 1 ERNIE | 218 | 233 | 225 | 8 |
| 2 COKER 9835 | 852 | 846 | 849 | 56 |
| 3 BESS | 537 | 444 | 491 | 23 |
| 4 JAMESTOWN | 151 | 235 | 193 | 7 |
| 5 LA01164D-94-2 | 495 | 539 | 517 | 25 |
| 6 03M1539#031 | 179 | 206 | 192 | 6 |
| 7 AR 99054-4-1 | 470 | 611 | 540 | 28 |
| 8 ARS03-4736 | 526 | 500 | 513 | 24 |
| 9 ARS05-1234 | 598 | 637 | 618 | 37 |
| 10 LA01141D-98-6-2 | 297 | 361 | 329 | 14 |
| 11 03M1539#019 | 406 | 512 | 459 | 21 |
| 12 AR99092-4-1 | 670 | 758 | 714 | 46 |
| 13 AR99102-4-1 | 753 | 777 | 765 | 50 |
| 14 AR99160-1-1-B | 615 | 583 | 599 | 32 |
| 15 AR99264-8-1 | 613 | 516 | 564 | 31 |
| 16 AR99311-12-1 | 193 | 276 | 235 | 10 |
| 17 ARGE97-1042-4-5-20 | 233 | 218 | 226 | 9 |
| 18 ARGE97-1047-4-2-9 | 132 | 142 | 137 | 2 |
| 19 ARGE97-1048-3-6-7 | 386 | 416 | 401 | 18 |
| 20 ARS04-1267 | 818 | 743 | 781 | 53 |
| 21 ARS05-0005 | 649 | 635 | 642 | 40 |
| 22 ARS05-0043 | 131 | 475 | 303 | 11 |
| 23 ARS05-0277 | 667 | 696 | 681 | 44 |
| 24 ARS07 0095 | 726 | 784 | 755 | 48 |
| 25 ARS07-0203 | 612 | 608 | 610 | 35 |
| 26 GA031188-O15 | 797 | 738 | 767 | 51 |
| 27 GA031188-O16 | 977 | 963 | 970 | 58 |
| 28 GA031188-O17 | 928 | 1000 | 964 | 57 |
| 29 GA041243-LE36 | 432 | 349 | 390 | 17 |
| 30 GA041260-Q19 | 735 | 789 | 762 | 49 |
| 31 GA041271-PL49 | 833 | 857 | 845 | 55 |
| 32 GA041271-Q23 | 747 | 860 | 803 | 54 |
| 33 GA041271-Q24 | 774 | 777 | 775 | 52 |
| 34 LA01141D-98-6-3 | 418 | 288 | 353 | 15 |
| 35 LA02058E63 | 641 | 707 | 674 | 43 |
| 36 LA02058E97 | 625 | 606 | 615 | 36 |
| 37 LA03130E68 | 147 | 142 | 145 | 3 |
| 38 LA03186E2 | 458 | 495 | 476 | 22 |
| 39 LA04142C-P5 | 174 | 444 | 309 | 13 |
| 40 M08*8005# | 506 | 544 | 525 | 26 |
| 41 MD01W233-07-1 | 568 | 802 | 685 | 45 |
| 42 MD02W135-08-9 | 566 | 511 | 538 | 27 |
| 43 MD03W61-09-1 | 158 | 158 | 158 | 4 |
| 44 MD03W91-09-7 | 327 | 278 | 303 | 11 |
| 45 NC07-21036 | 624 | 624 | 624 | 38 |
| 46 NC07-23081 | 84 | 117 | 100 | 1 |
| 47 NC07-23126 | 540 | 679 | 609 | 34 |
| 48 NC07-23771 | 601 | 694 | 647 | 41 |
| 49 NC07-24445 | 659 | 455 | 557 | 29 |
| 50 VA06W-580 | 643 | 621 | 632 | 39 |
| 51 VA07W-569 | 489 | 716 | 602 | 33 |
| 52 VA08W-622 | 403 | 440 | 422 | 19 |
| 53 VA08W-630 | 688 | 639 | 664 | 42 |
| 54 VA08W-653 | 428 | 312 | 370 | 16 |
| 55 VA08W-709 | 356 | 489 | 423 | 20 |
| 56 VA09W-641 | 171 | 173 | 172 | 5 |
| 57 VA09W-654 | 736 | 769 | 753 | 47 |
| 58 W1104 | 621 | 500 | 561 | 30 |
| Mean | 513 | 539 | 526 | |

FHB Index (1-100)

| CULTIVAR/ DESIGNATION | COL'BIA | | S'BURY | | B'BURG | | URBANA | | KINSTON | | BAY | | LEX'TON | | B'KTON | | MEAN | |
|--------------------------|---------|------|--------|------|--------|------|--------|------|---------|------|------|------|---------|------|--------|------|----------|------|
| | MO | | MD | | VA | | IL | | NC | | AR | | KY | | IN | | ALL LOC. | |
| | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK |
| 1 ERNIE | 20 | 6 | . | . | 1 | 1 | 21 | 2 | 17 | 38 | 8 | 1 | 15 | 7 | 0.2 | 9 | 9 | 1 |
| 2 COKER 9835 | 72 | 55 | 4 | 34 | 4 | 46 | 75 | 52 | 19 | 42 | 44 | 58 | 75 | 48 | 23 | 50 | 39 | 53 |
| 3 BESS | 17 | 5 | 1 | 4 | 1 | 1 | 43 | 26 | 8 | 8 | 20 | 19 | 10 | 3 | 0.1 | 3 | 12 | 3 |
| 4 JAMESTOWN | 27 | 14 | 3 | 22 | 3 | 40 | 33 | 7 | 4 | 2 | 15 | 6 | 23 | 16 | 0.1 | 3 | 13 | 4 |
| 5 LA01164D-94-2 | 31 | 25 | 3 | 22 | 1 | 1 | 36 | 15 | 26 | 51 | 32 | 44 | 52 | 35 | 2.4 | 27 | 23 | 34 |
| 6 03M1539#031 | 42 | 42 | 3 | 22 | 2 | 25 | 68 | 47 | 23 | 47 | 34 | 52 | 21 | 14 | 2.8 | 30 | 24 | 38 |
| 7 AR 99054-4-1 | 32 | 29 | 3 | 22 | 2 | 25 | 58 | 41 | 4 | 2 | 13 | 5 | 54 | 37 | 3.5 | 34 | 21 | 30 |
| 8 ARS03-4736 | 33 | 32 | 6 | 44 | 2 | 25 | 35 | 11 | 24 | 49 | 25 | 36 | 35 | 24 | 0.5 | 12 | 20 | 29 |
| 9 ARS05-1234 | 46 | 47 | 3 | 22 | 3 | 40 | 62 | 44 | 16 | 33 | 21 | 21 | 40 | 27 | 0.5 | 12 | 24 | 38 |
| 10 LA01141D-98-6-2 | 43 | 43 | 10 | 53 | 3 | 40 | 50 | 34 | 20 | 43 | 32 | 44 | 83 | 53 | 2.5 | 28 | 30 | 44 |
| 11 03M1539#019 | 34 | 33 | 2 | 16 | 1 | 1 | 52 | 35 | 11 | 14 | 18 | 12 | 35 | 24 | 1.9 | 21 | 19 | 23 |
| 12 AR99092-4-1 | 21 | 8 | 2 | 16 | 1 | 1 | 42 | 24 | 13 | 21 | 24 | 33 | 19 | 11 | 2.0 | 24 | 15 | 9 |
| 13 AR99102-4-1 | 47 | 48 | 1 | 4 | 2 | 25 | 69 | 49 | 17 | 38 | 19 | 16 | 59 | 42 | 3.4 | 32 | 27 | 42 |
| 14 AR99160-1-1-B | 16 | 3 | 5 | 38 | 1 | 1 | 47 | 32 | 5 | 5 | 22 | 24 | 12 | 5 | 1.9 | 21 | 14 | 6 |
| 15 AR99264-8-1 | 26 | 12 | 1 | 4 | 1 | 1 | 37 | 18 | 12 | 19 | 22 | 24 | 58 | 41 | 9.4 | 42 | 21 | 30 |
| 16 AR99311-12-1 | 38 | 38 | 6 | 44 | 3 | 40 | 55 | 37 | 11 | 14 | 18 | 12 | 51 | 34 | 4.8 | 39 | 23 | 34 |
| 17 ARGE97-1042-4-5-20 | 15 | 2 | 3 | 22 | 1 | 1 | 34 | 9 | 10 | 11 | 9 | 2 | 5 | 1 | 0.1 | 3 | 10 | 2 |
| 18 ARGE97-1047-4-2-9 | 16 | 3 | 3 | 22 | 1 | 1 | 16 | 1 | 41 | 57 | 11 | 3 | 15 | 7 | 0.0 | 1 | 13 | 4 |
| 19 ARGE97-1048-3-6-7 | 31 | 25 | 8 | 49 | 1 | 1 | 35 | 11 | 13 | 21 | 22 | 24 | 20 | 12 | 0.1 | 3 | 16 | 16 |
| 20 ARS04-1267 | 31 | 25 | 5 | 38 | 5 | 50 | 38 | 19 | 16 | 33 | 19 | 16 | 8 | 2 | 0.6 | 16 | 15 | 9 |
| 21 ARS05-0005 | 48 | 50 | 3 | 22 | 5 | 50 | 79 | 54 | 26 | 51 | 21 | 21 | 79 | 50 | 11.3 | 43 | 34 | 49 |
| 22 ARS05-0043 | 39 | 39 | 1 | 4 | 2 | 25 | 44 | 28 | 13 | 21 | 17 | 9 | 30 | 20 | 2.0 | 24 | 19 | 23 |
| 23 ARS05-0277 | 44 | 44 | 12 | 55 | 4 | 46 | 85 | 58 | 33 | 55 | 34 | 52 | 63 | 43 | 27.6 | 52 | 38 | 52 |
| 24 ARS07 0095 | 69 | 54 | 9 | 51 | 5 | 50 | 48 | 33 | 11 | 14 | 34 | 52 | 43 | 28 | 15.8 | 48 | 29 | 43 |
| 25 ARS07-0203 | 56 | 51 | 2 | 16 | 7 | 56 | 74 | 51 | 16 | 33 | 26 | 38 | 74 | 47 | 27.0 | 51 | 35 | 51 |
| 26 GA031188-O15 | 63 | 52 | 7 | 49 | 5 | 50 | 77 | 53 | 38 | 56 | 32 | 44 | 81 | 52 | 62.0 | 58 | 45 | 57 |
| 27 GA031188-O16 | 76 | 56 | 11 | 54 | 4 | 46 | 68 | 47 | 23 | 47 | 28 | 41 | 89 | 56 | 43.8 | 54 | 43 | 54 |
| 28 GA031188-O17 | 83 | 57 | 6 | 44 | 5 | 50 | 73 | 50 | 26 | 51 | 41 | 57 | 68 | 46 | 47.1 | 55 | 44 | 56 |
| 29 GA041243-LE36 | 47 | 48 | 2 | 16 | 2 | 25 | 35 | 11 | 16 | 33 | 26 | 38 | 56 | 40 | 12.8 | 45 | 25 | 40 |
| 30 GA041260-Q19 | 45 | 45 | 6 | 44 | 4 | 46 | 84 | 57 | 9 | 9 | 33 | 48 | 54 | 37 | 17.5 | 49 | 31 | 47 |
| 31 GA041271-PL49 | 34 | 33 | 6 | 44 | 5 | 50 | 52 | 35 | 21 | 46 | 37 | 56 | 79 | 50 | 34.4 | 53 | 34 | 49 |
| 32 GA041271-Q23 | 91 | 58 | 9 | 51 | 8 | 57 | 80 | 55 | 17 | 38 | 22 | 24 | 99 | 58 | 52.0 | 56 | 47 | 58 |
| 33 GA041271-Q24 | 65 | 53 | 4 | 34 | 10 | 58 | 60 | 42 | 42 | 58 | 20 | 19 | 84 | 54 | 56.0 | 57 | 43 | 54 |
| 34 LA01141D-98-6-3 | 45 | 45 | 3 | 22 | 2 | 25 | 56 | 39 | 11 | 14 | 33 | 48 | 92 | 57 | 3.4 | 32 | 30 | 44 |
| 35 LA02058E63 | 27 | 14 | 2 | 16 | 1 | 1 | 56 | 39 | 13 | 21 | 23 | 29 | 14 | 6 | 5.6 | 41 | 18 | 18 |
| 36 LA02058E97 | 34 | 33 | 5 | 38 | 1 | 1 | 61 | 43 | 27 | 54 | 23 | 29 | 48 | 33 | 4.0 | 37 | 25 | 40 |
| 37 LA03130E68 | 32 | 29 | 5 | 38 | 1 | 1 | 36 | 15 | 3 | 1 | 17 | 9 | 16 | 9 | 14.1 | 46 | 15 | 9 |
| 38 LA03186E2 | 39 | 40 | 5 | 38 | 3 | 40 | 81 | 56 | 11 | 14 | 17 | 9 | 77 | 49 | 11.3 | 43 | 30 | 44 |
| 39 LA04142C-P5 | 30 | 23 | 4 | 34 | 2 | 25 | 39 | 20 | 5 | 5 | 23 | 29 | 65 | 44 | 15.0 | 47 | 23 | 34 |
| 40 M08*8005# | 25 | 10 | 3 | 22 | 2 | 25 | 36 | 15 | 13 | 21 | 24 | 33 | 20 | 12 | 0.6 | 16 | 15 | 9 |
| 41 MD01W233-07-1 | 34 | 33 | 1 | 4 | 1 | 1 | 40 | 22 | 15 | 31 | 25 | 36 | 65 | 44 | 2.2 | 26 | 23 | 34 |
| 42 MD02W135-08-9 | 32 | 29 | 1 | 4 | 1 | 1 | 41 | 23 | 16 | 33 | 18 | 12 | 30 | 20 | 3.5 | 34 | 18 | 18 |
| 43 MD03W61-09-1 | 14 | 1 | 1 | 4 | 1 | 1 | 34 | 9 | 7 | 7 | 11 | 3 | 47 | 32 | 0.1 | 3 | 14 | 6 |
| 44 MD03W91-09-7 | 25 | 10 | 3 | 22 | 1 | 1 | 35 | 11 | 20 | 43 | 21 | 21 | 18 | 10 | 0.0 | 2 | 15 | 9 |
| 45 NC07-21036 | 28 | 17 | 0.3 | 2 | 2 | 25 | 44 | 28 | 13 | 21 | 15 | 6 | 53 | 36 | 0.9 | 18 | 19 | 23 |
| 46 NC07-23081 | 28 | 17 | 0.4 | 3 | 2 | 25 | 39 | 20 | 20 | 43 | 32 | 44 | 23 | 16 | 0.1 | 3 | 18 | 18 |
| 47 NC07-23126 | 29 | 22 | 1 | 4 | 1 | 1 | 33 | 7 | 4 | 2 | 18 | 12 | 30 | 20 | 1.9 | 21 | 15 | 9 |
| 48 NC07-23771 | 30 | 23 | 2 | 16 | 1 | 1 | 66 | 46 | 10 | 11 | 33 | 48 | 11 | 4 | 2.7 | 29 | 19 | 23 |
| 49 NC07-24445 | 41 | 41 | 1 | 4 | 2 | 25 | 63 | 45 | 15 | 31 | 33 | 48 | 88 | 55 | 3.8 | 36 | 31 | 47 |
| 50 VA06W-580 | 27 | 14 | 5 | 38 | 2 | 25 | 30 | 4 | 25 | 50 | 22 | 24 | 21 | 14 | 0.2 | 9 | 16 | 16 |
| 51 VA07W-569 | 26 | 12 | 1 | 4 | 2 | 25 | 43 | 26 | 18 | 41 | 24 | 33 | 30 | 20 | 2.8 | 30 | 18 | 18 |
| 52 VA08W-622 | 31 | 25 | 4 | 34 | 1 | 1 | 30 | 4 | 9 | 9 | 23 | 29 | 43 | 28 | 5.1 | 40 | 18 | 18 |
| 53 VA08W-630 | 29 | 20 | 1 | 4 | 3 | 40 | 44 | 28 | 13 | 21 | 36 | 55 | 54 | 37 | 1.5 | 20 | 22 | 33 |
| 54 VA08W-653 | 36 | 37 | 1 | 4 | 1 | 1 | 42 | 24 | 14 | 29 | 28 | 41 | 46 | 30 | 0.5 | 12 | 21 | 30 |
| 55 VA08W-709 | 29 | 20 | . | . | 1 | 1 | 24 | 3 | 12 | 19 | 28 | 41 | 28 | 19 | 1.1 | 19 | 15 | 9 |
| 56 VA09W-641 | 21 | 8 | 3 | 22 | 2 | 25 | 30 | 4 | 13 | 21 | 19 | 16 | 27 | 18 | 0.5 | 12 | 14 | 6 |
| 57 VA09W-654 | 20 | 6 | . | . | 1 | 1 | 55 | 37 | 10 | 11 | 16 | 8 | 46 | 30 | 4.5 | 38 | 19 | 23 |
| 58 W1104 | 28 | 17 | 0.1 | 1 | 1 | 1 | 46 | 31 | 14 | 29 | 27 | 40 | 39 | 26 | 0.4 | 11 | 19 | 23 |

| | | | | | | | | | |
|------------|------|------|-----|------|------|----|------|----|------|
| Mean | 37 | 3 | 2 | 49 | 16 | 24 | 45 | 10 | 23 |
| LSD (0.05) | 16.3 | 5.0 | 3.2 | 16.8 | 13 | . | 30 | . | 22 |
| CV% | 32.7 | 75.4 | 80 | 25.5 | 39.0 | . | 56.7 | . | 48.6 |

Percent Fusarium Damaged Kernels

| Cultivar/ Designation | COL'BIA URBANA | | BAY | F'VILLE (1) | F'VILLE (2) | KINSTON | S'BURY | LEX'TON | B'KTON | FUN'LEA | MEAN | | | | | | | | | | | |
|--------------------------|----------------|------|------|-------------|-------------|---------|--------|---------|--------|---------|----------|------|-----|----|----|----|----|----|-----|----|----|----|
| | MO | IL | AR | AR | AR | NC | MD | KY | IN | ROM | AII LOCS | | | | | | | | | | | |
| | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | RANK | | | | | | | | | | |
| 1 ERNIE | 40 | 19 | 40 | 7 | 13 | 8 | 13 | 21 | 25 | 13 | 3 | 4 | . | . | 15 | 35 | 14 | 20 | 43 | 9 | 20 | 10 |
| 2 COKER 9835 | 90 | 50 | 88 | 50 | 22 | 32 | 32 | 52 | 75 | 53 | 53 | 51 | 3.5 | 52 | 21 | 43 | 26 | 39 | 87 | 45 | 45 | 48 |
| 3 BESS | 5 | 1 | 17 | 1 | 10 | 4 | 7 | 7 | 22 | 10 | 15 | 31 | 0.3 | 10 | 9 | 14 | 7 | 8 | 42 | 9 | 12 | 1 |
| 4 JAMESTOWN | 20 | 8 | 40 | 7 | 7 | 1 | 11 | 16 | 30 | 25 | 7 | 15 | 0.3 | 10 | 9 | 14 | 9 | 10 | 28 | 6 | 16 | 5 |
| 5 LA01164D-94-2 | 60 | 31 | 55 | 22 | 47 | 55 | 17 | 31 | 28 | 21 | 11 | 23 | 0.3 | 10 | 11 | 23 | 14 | 20 | 47 | 15 | 30 | 29 |
| 6 03M1539#031 | 5 | 1 | 33 | 3 | 22 | 32 | 10 | 13 | 37 | 35 | 5 | 8 | 0.8 | 29 | 5 | 1 | 7 | 8 | 37 | 8 | 16 | 5 |
| 7 AR 99054-4-1 | 40 | 19 | 60 | 26 | 19 | 23 | 19 | 37 | 28 | 21 | 13 | 27 | 1.5 | 42 | 14 | 32 | 19 | 31 | 75 | 36 | 30 | 29 |
| 8 ARS03-4736 | 40 | 19 | 50 | 17 | 16 | 15 | 24 | 45 | 37 | 35 | 17 | 36 | 2.0 | 44 | 7 | 5 | 18 | 29 | 63 | 28 | 28 | 26 |
| 9 ARS05-1234 | 40 | 19 | 67 | 36 | 58 | 56 | 18 | 32 | 32 | 28 | 73 | 56 | 1.0 | 34 | 8 | 9 | 21 | 34 | 89 | 47 | 36 | 40 |
| 10 LA01141D-98-6-2 | 95 | 53 | 82 | 43 | 20 | 24 | 19 | 37 | 42 | 46 | 14 | 29 | 1.0 | 34 | 42 | 52 | 53 | 51 | 75 | 36 | 46 | 50 |
| 11 03M1539#019 | 50 | 26 | 63 | 30 | 15 | 14 | 16 | 28 | 40 | 41 | 11 | 23 | 0.5 | 18 | 17 | 39 | 10 | 14 | 82 | 41 | 30 | 29 |
| 12 AR99092-4-1 | 20 | 8 | 70 | 38 | 30 | 47 | 10 | 13 | 30 | 25 | 29 | 45 | 2.0 | 44 | 7 | 5 | 24 | 36 | 45 | 13 | 26 | 21 |
| 13 AR99102-4-1 | 80 | 46 | 80 | 41 | 22 | 32 | 23 | 42 | 33 | 31 | 19 | 38 | 0.0 | 1 | 28 | 45 | 12 | 16 | 97 | 49 | 41 | 45 |
| 14 AR99160-1-1-B | 5 | 1 | 50 | 17 | 18 | 22 | 12 | 18 | 18 | 4 | 28 | 43 | 2.5 | 48 | 8 | 9 | 17 | 26 | 85 | 43 | 23 | 16 |
| 15 AR99264-8-1 | 20 | 8 | 30 | 2 | 30 | 47 | 8 | 12 | 27 | 17 | 3 | 4 | 0.5 | 18 | 5 | 1 | 17 | 26 | 54 | 22 | 19 | 7 |
| 16 AR99311-12-1 | 60 | 31 | 43 | 13 | 27 | 43 | 18 | 32 | 40 | 41 | 10 | 20 | 1.0 | 34 | 11 | 23 | 12 | 16 | 43 | 9 | 26 | 21 |
| 17 ARGE97-1042-4-5-20 | 20 | 8 | 60 | 26 | 61 | 57 | 5 | 3 | 13 | 1 | 15 | 31 | 0.0 | 1 | 6 | 4 | 11 | 15 | 48 | 17 | 25 | 18 |
| 18 ARGE97-1047-4-2-9 | 20 | 8 | 40 | 7 | 22 | 32 | 3 | 2 | 15 | 2 | 10 | 20 | 0.5 | 18 | 12 | 27 | 2 | 2 | 6 | 1 | 13 | 3 |
| 19 ARGE97-1048-3-6-7 | 75 | 42 | 63 | 30 | 13 | 8 | 2 | 1 | 15 | 2 | 4 | 6 | 1.3 | 40 | 7 | 5 | 3 | 3 | 83 | 42 | 29 | 27 |
| 20 ARS04-1267 | 10 | 5 | 57 | 23 | 23 | 38 | 10 | 13 | 20 | 7 | 8 | 16 | 0.5 | 18 | 8 | 9 | 9 | 10 | 100 | 54 | 26 | 21 |
| 21 ARS05-0005 | 80 | 46 | 87 | 48 | 21 | 31 | 31 | 51 | 42 | 46 | 55 | 52 | 2.3 | 47 | 14 | 32 | 28 | 42 | 99 | 51 | 45 | 48 |
| 22 ARS05-0043 | 60 | 31 | 73 | 39 | 37 | 54 | 26 | 47 | 27 | 17 | 35 | 46 | 1.0 | 34 | 13 | 31 | 18 | 29 | 50 | 19 | 35 | 38 |
| 23 ARS05-0277 | 40 | 19 | 63 | 30 | 25 | 41 | 18 | 32 | 43 | 48 | 8 | 16 | 1.0 | 34 | 22 | 44 | 30 | 43 | 80 | 39 | 34 | 37 |
| 24 ARS07 0095 | 25 | 17 | 77 | 40 | 16 | 15 | 21 | 40 | 38 | 37 | 55 | 52 | 2.5 | 48 | 15 | 35 | 55 | 52 | 76 | 38 | 35 | 38 |
| 25 ARS07-0203 | 95 | 53 | 80 | 41 | 20 | 24 | 25 | 46 | 60 | 50 | 60 | 54 | 1.3 | 40 | 36 | 50 | 17 | 26 | 91 | 48 | 44 | 46 |
| 26 GA031188-O15 | 95 | 53 | 94 | 52 | 29 | 45 | 35 | 53 | 83 | 55 | 23 | 41 | 0.8 | 29 | 56 | 57 | 99 | 58 | 100 | 54 | 63 | 58 |
| 27 GA031188-O16 | 97 | 58 | 93 | 51 | 17 | 19 | 28 | 49 | 85 | 57 | 28 | 43 | 0.0 | 1 | 43 | 53 | 51 | 50 | 87 | 46 | 51 | 52 |
| 28 GA031188-O17 | 90 | 50 | 94 | 52 | 34 | 52 | 39 | 54 | 87 | 58 | 40 | 47 | 2.8 | 50 | 48 | 54 | 55 | 52 | 100 | 54 | 56 | 53 |
| 29 GA041243-LE36 | 80 | 46 | 85 | 46 | 33 | 51 | 30 | 50 | 40 | 41 | 50 | 49 | 3.5 | 52 | 33 | 49 | 37 | 46 | 56 | 27 | 44 | 46 |
| 30 GA041260-Q19 | 95 | 53 | 95 | 56 | 16 | 15 | 46 | 55 | 68 | 51 | 60 | 54 | 8.8 | 57 | 29 | 46 | 76 | 56 | 99 | 51 | 58 | 55 |
| 31 GA041271-PL49 | 75 | 42 | 94 | 52 | . | . | 60 | 58 | 77 | 54 | 97 | 58 | 7.8 | 56 | 49 | 55 | 73 | 55 | 85 | 43 | 62 | 57 |
| 32 GA041271-Q23 | 95 | 53 | 96 | 57 | 13 | 8 | 58 | 57 | 83 | 55 | 43 | 48 | 3.8 | 54 | 38 | 51 | 88 | 57 | 97 | 49 | 61 | 56 |
| 33 GA041271-Q24 | 75 | 42 | 96 | 57 | 35 | 53 | 48 | 56 | 72 | 52 | 95 | 57 | 0.5 | 18 | 55 | 56 | 38 | 47 | 100 | 54 | 57 | 54 |
| 34 LA01141D-98-6-3 | 90 | 50 | 85 | 46 | 22 | 32 | 23 | 42 | 30 | 25 | 50 | 49 | 0.3 | 10 | 64 | 58 | 58 | 54 | 52 | 21 | 47 | 51 |
| 35 LA02058E63 | 50 | 26 | 87 | 48 | 32 | 50 | 22 | 41 | 32 | 28 | 16 | 33 | 2.0 | 44 | 9 | 14 | 20 | 33 | 100 | 54 | 38 | 42 |
| 36 LA02058E97 | 50 | 26 | 82 | 43 | 24 | 39 | 18 | 32 | 33 | 31 | 13 | 27 | 0.5 | 18 | 31 | 48 | 31 | 45 | 99 | 51 | 40 | 43 |
| 37 LA03130E68 | 40 | 19 | 53 | 21 | 28 | 44 | 14 | 25 | 27 | 17 | 10 | 20 | 2.8 | 50 | 18 | 40 | 19 | 31 | 27 | 5 | 24 | 17 |
| 38 LA03186E2 | 80 | 46 | 83 | 45 | 20 | 24 | 16 | 28 | 25 | 13 | 11 | 23 | 0.5 | 18 | 15 | 35 | 48 | 49 | 73 | 35 | 40 | 43 |
| 39 LA04142C-P5 | 20 | 8 | 94 | 52 | 12 | 6 | 23 | 42 | 18 | 4 | 6 | 10 | 1.8 | 43 | 30 | 47 | 27 | 41 | 64 | 30 | 33 | 36 |
| 40 M08*8005# | 10 | 5 | 37 | 6 | 9 | 2 | 6 | 5 | 20 | 7 | 5 | 8 | 0.3 | 10 | 12 | 27 | 3 | 3 | 80 | 39 | 19 | 7 |
| 41 MD01W233-07-1 | 60 | 31 | 60 | 26 | 20 | 24 | 11 | 16 | 23 | 11 | 20 | 39 | 1.0 | 34 | 9 | 14 | 21 | 34 | 68 | 32 | 29 | 27 |
| 42 MD02W135-08-9 | 40 | 19 | 43 | 13 | 11 | 5 | 7 | 7 | 40 | 41 | 8 | 16 | 0.5 | 18 | 14 | 32 | 14 | 20 | 72 | 34 | 25 | 18 |
| 43 MD03W61-09-1 | 10 | 5 | 58 | 25 | 9 | 2 | 18 | 32 | 38 | 37 | 12 | 26 | 0.5 | 18 | 5 | 1 | 3 | 3 | 10 | 2 | 15 | 4 |
| 44 MD03W91-09-7 | 5 | 1 | 40 | 7 | 17 | 19 | 7 | 7 | 20 | 7 | 2 | 1 | 0.0 | 1 | 10 | 20 | 1 | 1 | 18 | 4 | 12 | 1 |
| 45 NC07-21036 | 75 | 42 | 40 | 7 | 14 | 12 | 12 | 18 | 33 | 31 | 25 | 42 | 0.0 | 1 | 12 | 57 | 4 | 7 | 51 | 20 | 26 | 21 |
| 46 NC07-23081 | 60 | 31 | 63 | 30 | 16 | 15 | 7 | 7 | 28 | 21 | 16 | 33 | 0.8 | 29 | 10 | 20 | 13 | 18 | 13 | 3 | 21 | 11 |
| 47 NC07-23126 | 50 | 26 | 57 | 23 | 24 | 39 | 12 | 18 | 40 | 41 | 6 | 10 | 0.1 | 9 | 9 | 14 | 15 | 23 | 49 | 18 | 26 | 21 |
| 48 NC07-23771 | 60 | 31 | 67 | 36 | 20 | 24 | 19 | 37 | 38 | 37 | 4 | 6 | 6.3 | 55 | 9 | 14 | 40 | 48 | 71 | 33 | 36 | 40 |
| 49 NC07-24445 | 60 | 31 | 62 | 29 | 17 | 19 | 13 | 21 | 48 | 49 | 6 | 10 | 0.0 | 1 | 19 | 41 | 15 | 23 | 63 | 28 | 30 | 29 |
| 50 VA06W-580 | 25 | 17 | 35 | 5 | 13 | 8 | 6 | 5 | 23 | 11 | 6 | 10 | 0.3 | 10 | 12 | 57 | 3 | 3 | 55 | 25 | 19 | 7 |
| 51 VA07W-569 | 60 | 31 | 63 | 30 | 20 | 24 | 13 | 21 | 32 | 28 | 2 | 1 | 0.3 | 10 | 7 | 5 | 16 | 25 | 66 | 31 | 30 | 29 |
| 52 VA08W-622 | 20 | 8 | 50 | 17 | 20 | 24 | 16 | 28 | 25 | 13 | 18 | 37 | 0.0 | 1 | 11 | 23 | 9 | 10 | 43 | 9 | 21 | 11 |
| 53 VA08W-630 | 60 | 31 | 45 | 16 | 30 | 47 | 15 | 26 | 27 | 17 | 16 | 33 | 0.8 | 29 | 19 | 41 | 30 | 43 | 54 | 22 | 31 | 34 |
| 54 VA08W-653 | 50 | 26 | 50 | 17 | 12 | 6 | 15 | 26 | 25 | 13 | 9 | 19 | 0.3 | 10 | 15 | 35 | 13 | 18 | 45 | 13 | 25 | 18 |
| 55 VA08W-709 | 20 | 8 | 33 | 3 | 22 | 32 | 13 | 21 | 38 | 37 | 2 | 1 | 0.5 | 18 | 8 | 9 | 26 | 39 | 55 | 25 | 22 | 13 |
| 56 VA09W-641 | 60 | 31 | 40 | 7 | 14 | 12 | 7 | 7 | 28 | 21 | 6 | 10 | 0.8 | 29 | 8 | 9 | 25 | 37 | 36 | 7 | 22 | 13 |
| 57 VA09W-654 | 20 | 8 | 43 | 13 | 29 | 45 | 5 | 3 | 18 | 4 | 21 | 40 | 0.0 | 1 | 10 | 20 | 25 | 37 | 54 | 22 | 22 | 13 |
| 58 W1104 | 60 | 31 | 63 | 30 | 26 | 42 | 27 | 48 | 35 | 34 | 14 | 29 | 0.5 | 18 | 11 | 23 | 9 | 10 | 47 | 15 | 31 | 34 |

| | | | | | | | | | | | |
|------------|----|----|------|----|----|----|-------|------|----|----|------|
| Mean | 51 | 62 | 21 | 19 | 37 | 22 | 1 | 19 | 25 | 64 | 32 |
| LSD (0.05) | . | 13 | 20 | 9 | 8 | . | 4.3 | 17 | . | 17 | 27 |
| CV% | . | 15 | 50.6 | . | . | . | 165.1 | 78.9 | . | . | 42.9 |

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

| CULTIVAR/ DESIGNATION | KINSTON | | COL'BIA | | URBANA | | LEX'TON | | S'BURY | | B'KTON | | MEAN | |
|--------------------------|---------|------|---------|------|--------|------|---------|------|--------|------|--------|------|----------|------|
| | NC | RANK | MO | RANK | IL | RANK | KY | RANK | MD | RANK | IN | RANK | ALL LOC. | RANK |
| 1 ERNIE | 26 | 17 | 50 | 18 | 52 | 4 | 30 | 6 | 0.00 | 1 | 8 | 13 | 25 | 3 |
| 2 COKER 9835 | 47 | 52 | 87 | 54 | 88 | 51 | 60 | 47 | 0.52 | 44 | 40 | 49 | 55 | 49 |
| 3 BESS | 23 | 9 | 30 | 1 | 49 | 2 | 24 | 3 | 0.04 | 19 | 5 | 6 | 22 | 1 |
| 4 JAMESTOWN | 14 | 1 | 46 | 12 | 55 | 9 | 35 | 17 | 0.11 | 29 | 6 | 7 | 28 | 9 |
| 5 LA01164D-94-2 | 34 | 38 | 62 | 32 | 62 | 18 | 48 | 31 | 0.04 | 19 | 15 | 20 | 37 | 27 |
| 6 03M1539#031 | 32 | 32 | 45 | 11 | 63 | 19 | 33 | 11 | 0.14 | 32 | 14 | 18 | 31 | 13 |
| 7 AR 99054-4-1 | 21 | 6 | 55 | 19 | 71 | 33 | 51 | 37 | 0.11 | 29 | 21 | 35 | 40 | 37 |
| 8 ARS03-4736 | 36 | 41 | 56 | 22 | 60 | 14 | 43 | 25 | 1.15 | 51 | 13 | 17 | 35 | 21 |
| 9 ARS05-1234 | 53 | 55 | 60 | 27 | 75 | 39 | 41 | 23 | 0.22 | 36 | 14 | 18 | 38 | 31 |
| 10 LA01141D-98-6-2 | 32 | 32 | 81 | 51 | 78 | 41 | 71 | 52 | 1.08 | 50 | 31 | 42 | 52 | 46 |
| 11 03M1539#019 | 25 | 14 | 60 | 27 | 71 | 33 | 43 | 25 | 0.08 | 25 | 12 | 16 | 37 | 27 |
| 12 AR99092-4-1 | 34 | 38 | 41 | 7 | 70 | 32 | 31 | 10 | 0.28 | 38 | 19 | 33 | 32 | 14 |
| 13 AR99102-4-1 | 32 | 32 | 76 | 46 | 83 | 48 | 58 | 43 | 0.00 | 1 | 17 | 25 | 47 | 43 |
| 14 AR99160-1-1-B | 24 | 12 | 35 | 2 | 63 | 19 | 25 | 4 | 0.90 | 49 | 15 | 20 | 28 | 9 |
| 15 AR99264-8-1 | 23 | 9 | 46 | 12 | 52 | 4 | 49 | 33 | 0.02 | 16 | 26 | 39 | 34 | 17 |
| 16 AR99311-12-1 | 25 | 14 | 65 | 39 | 63 | 19 | 49 | 33 | 0.55 | 45 | 18 | 31 | 39 | 34 |
| 17 ARGE97-1042-4-5-20 | 26 | 17 | 40 | 5 | 63 | 19 | 17 | 1 | 0.00 | 1 | 7 | 8 | 25 | 3 |
| 18 ARGE97-1047-4-2-9 | 41 | 46 | 40 | 5 | 44 | 1 | 30 | 6 | 0.12 | 31 | 2 | 1 | 23 | 2 |
| 19 ARGE97-1048-3-6-7 | 23 | 9 | 69 | 43 | 65 | 27 | 33 | 11 | 0.63 | 46 | 3 | 3 | 34 | 17 |
| 20 ARS04-1267 | 27 | 20 | 42 | 9 | 63 | 19 | 21 | 2 | 0.18 | 33 | 9 | 14 | 27 | 6 |
| 21 ARS05-0005 | 51 | 54 | 77 | 48 | 88 | 51 | 59 | 44 | 0.65 | 47 | 33 | 43 | 52 | 46 |
| 22 ARS05-0043 | 36 | 41 | 66 | 40 | 72 | 35 | 39 | 21 | 0.18 | 33 | 16 | 23 | 39 | 34 |
| 23 ARS05-0277 | 39 | 43 | 59 | 24 | 81 | 43 | 57 | 42 | 0.86 | 48 | 43 | 50 | 48 | 44 |
| 24 ARS07 0095 | 54 | 56 | 60 | 27 | 74 | 37 | 47 | 30 | 1.62 | 54 | 46 | 51 | 46 | 42 |
| 25 ARS07-0203 | 48 | 53 | 85 | 53 | 84 | 49 | 66 | 50 | 0.29 | 39 | 38 | 47 | 55 | 49 |
| 26 GA031188-O15 | 43 | 49 | 87 | 54 | 91 | 56 | 77 | 56 | 0.40 | 40 | 87 | 58 | 68 | 57 |
| 27 GA031188-O16 | 39 | 43 | 92 | 57 | 88 | 51 | 74 | 53 | 0.00 | 1 | 60 | 53 | 63 | 55 |
| 28 GA031188-O17 | 46 | 50 | 91 | 56 | 89 | 55 | 69 | 51 | 1.58 | 53 | 63 | 55 | 63 | 55 |
| 29 GA041243-LE36 | 39 | 43 | 76 | 46 | 74 | 37 | 59 | 44 | 0.50 | 43 | 36 | 46 | 49 | 45 |
| 30 GA041260-Q19 | 46 | 50 | 81 | 51 | 93 | 58 | 56 | 41 | 3.78 | 58 | 56 | 52 | 58 | 52 |
| 31 GA041271-PL49 | 67 | 57 | 70 | 44 | 81 | 43 | 74 | 53 | 3.35 | 57 | 64 | 56 | 59 | 53 |
| 32 GA041271-Q23 | 42 | 48 | 95 | 58 | 92 | 57 | 75 | 55 | 3.24 | 56 | 79 | 57 | 69 | 58 |
| 33 GA041271-Q24 | 76 | 58 | 80 | 50 | 86 | 50 | 77 | 56 | 0.01 | 14 | 60 | 53 | 61 | 54 |
| 34 LA01141D-98-6-3 | 41 | 46 | 79 | 49 | 81 | 43 | 83 | 58 | 0.05 | 21 | 35 | 45 | 56 | 51 |
| 35 LA02058E63 | 28 | 26 | 57 | 23 | 81 | 43 | 30 | 6 | 0.43 | 42 | 22 | 36 | 38 | 31 |
| 36 LA02058E97 | 33 | 36 | 60 | 27 | 81 | 43 | 54 | 40 | 0.22 | 36 | 24 | 38 | 44 | 39 |
| 37 LA03130E68 | 15 | 2 | 55 | 19 | 61 | 15 | 33 | 11 | 1.98 | 55 | 30 | 41 | 36 | 23 |
| 38 LA03186E2 | 26 | 17 | 74 | 45 | 88 | 51 | 59 | 44 | 0.18 | 33 | 39 | 48 | 52 | 46 |
| 39 LA04142C-P5 | 16 | 3 | 47 | 15 | 80 | 42 | 61 | 48 | 0.40 | 40 | 34 | 44 | 44 | 39 |
| 40 M08*8005# | 25 | 14 | 41 | 7 | 54 | 8 | 33 | 11 | 0.05 | 21 | 7 | 8 | 27 | 6 |
| 41 MD01W233-07-1 | 33 | 36 | 64 | 38 | 66 | 28 | 53 | 38 | 0.00 | 1 | 17 | 25 | 40 | 37 |
| 42 MD02W135-08-9 | 27 | 20 | 55 | 19 | 59 | 12 | 41 | 23 | 0.05 | 21 | 17 | 25 | 34 | 17 |
| 43 MD03W61-09-1 | 21 | 6 | 38 | 3 | 64 | 26 | 46 | 29 | 0.07 | 24 | 3 | 3 | 30 | 11 |
| 44 MD03W91-09-7 | 28 | 26 | 39 | 4 | 56 | 10 | 30 | 6 | 0.00 | 1 | 2 | 1 | 25 | 3 |
| 45 NC07-21036 | 30 | 29 | 68 | 42 | 59 | 12 | 50 | 35 | 0.00 | 1 | 7 | 8 | 37 | 27 |
| 46 NC07-23081 | 34 | 38 | 62 | 32 | 66 | 28 | 33 | 11 | 0.01 | 14 | 7 | 8 | 34 | 17 |
| 47 NC07-23126 | 20 | 4 | 59 | 24 | 61 | 15 | 39 | 21 | 0.10 | 28 | 16 | 23 | 35 | 21 |
| 48 NC07-23771 | 20 | 4 | 63 | 36 | 76 | 40 | 25 | 4 | 1.51 | 52 | 26 | 39 | 38 | 31 |
| 49 NC07-24445 | 27 | 20 | 66 | 40 | 73 | 36 | 64 | 49 | 0.00 | 1 | 18 | 31 | 44 | 39 |
| 50 VA06W-580 | 32 | 32 | 48 | 17 | 52 | 4 | 33 | 11 | 0.09 | 27 | 4 | 5 | 27 | 6 |
| 51 VA07W-569 | 30 | 29 | 62 | 32 | 68 | 28 | 37 | 19 | 0.02 | 16 | 17 | 25 | 37 | 27 |
| 52 VA08W-622 | 27 | 20 | 47 | 15 | 58 | 11 | 44 | 28 | 0.00 | 1 | 17 | 25 | 33 | 15 |
| 53 VA08W-630 | 27 | 20 | 63 | 36 | 61 | 15 | 53 | 38 | 0.02 | 16 | 19 | 33 | 39 | 34 |
| 54 VA08W-653 | 30 | 29 | 61 | 31 | 63 | 19 | 50 | 35 | 0.00 | 1 | 9 | 14 | 36 | 23 |
| 55 VA08W-709 | 22 | 8 | 46 | 12 | 49 | 2 | 36 | 18 | 0.00 | 1 | 17 | 25 | 30 | 11 |
| 56 VA09W-641 | 24 | 12 | 59 | 24 | 52 | 4 | 38 | 20 | 0.08 | 25 | 15 | 20 | 33 | 15 |
| 57 VA09W-654 | 27 | 20 | 44 | 10 | 63 | 19 | 48 | 31 | 0.00 | 1 | 23 | 37 | 36 | 23 |
| 58 W1104 | 29 | 28 | 62 | 32 | 69 | 31 | 43 | 25 | 0.00 | 1 | 7 | 8 | 36 | 23 |

| | | | | | | | |
|------------|------|----|----|------|-------|----|------|
| Mean | 32 | 61 | 69 | 47 | 0.5 | 24 | 41 |
| LSD (0.05) | 14 | . | 8 | 19 | 2 | . | 19 |
| CV% | 22.0 | . | 9 | 33.9 | 231.9 | . | 23.7 |

SEED CHARACTERISTICS and Grain Yield

| Cultivar/ Designation | 1000 | Grain |
|--------------------------|-------------------------|--------------------------------|
| | GR. WT. S'BURY MD | Yield (gr) F'VILLE AR |
| 1 ERNIE | 39 | 311 |
| 2 COKER 9835 | 39 | 87 |
| 3 BESS | 42 | 306 |
| 4 JAMESTOWN | 43 | 299 |
| 5 LA01164D-94-2 | 49 | 262 |
| 6 03M1539#031 | 42 | 291 |
| 7 AR 99054-4-1 | 44 | 223 |
| 8 ARS03-4736 | 51 | 233 |
| 9 ARS05-1234 | 42 | 185 |
| 10 LA01141D-98-6-2 | 47 | 237 |
| 11 03M1539#019 | 47 | 198 |
| 12 AR99092-4-1 | 41 | 219 |
| 13 AR99102-4-1 | 45 | 278 |
| 14 AR99160-1-1-B | 48 | 296 |
| 15 AR99264-8-1 | 47 | 212 |
| 16 AR99311-12-1 | 42 | 256 |
| 17 ARGE97-1042-4-5-20 | 39 | 350 |
| 18 ARGE97-1047-4-2-9 | 48 | 290 |
| 19 ARGE97-1048-3-6-7 | 43 | 239 |
| 20 ARS04-1267 | 45 | 237 |
| 21 ARS05-0005 | 48 | 188 |
| 22 ARS05-0043 | 49 | 216 |
| 23 ARS05-0277 | 43 | 165 |
| 24 ARS07 0095 | 44 | 136 |
| 25 ARS07-0203 | 40 | 148 |
| 26 GA031188-O15 | 46 | 134 |
| 27 GA031188-O16 | 42 | 143 |
| 28 GA031188-O17 | 49 | 124 |
| 29 GA041243-LE36 | 44 | 167 |
| 30 GA041260-Q19 | 40 | 69 |
| 31 GA041271-PL49 | 43 | 28 |
| 32 GA041271-Q23 | 45 | 57 |
| 33 GA041271-Q24 | 52 | 55 |
| 34 LA01141D-98-6-3 | 48 | 188 |
| 35 LA02058E63 | 47 | 207 |
| 36 LA02058E97 | 50 | 183 |
| 37 LA03130E68 | 45 | 289 |
| 38 LA03186E2 | 40 | 231 |
| 39 LA04142C-P5 | 42 | 249 |
| 40 M08*8005# | 40 | 260 |
| 41 MD01W233-07-1 | 40 | 181 |
| 42 MD02W135-08-9 | 46 | 185 |
| 43 MD03W61-09-1 | 47 | 311 |
| 44 MD03W91-09-7 | 43 | 355 |
| 45 NC07-21036 | 42 | 216 |
| 46 NC07-23081 | 40 | 303 |
| 47 NC07-23126 | 42 | 232 |
| 48 NC07-23771 | 41 | 178 |
| 49 NC07-24445 | 47 | 205 |
| 50 VA06W-580 | 42 | 325 |
| 51 VA07W-569 | 50 | 261 |
| 52 VA08W-622 | 46 | 257 |
| 53 VA08W-630 | 43 | 218 |
| 54 VA08W-653 | 38 | 185 |
| 55 VA08W-709 | 43 | 241 |
| 56 VA09W-641 | 50 | 285 |
| 57 VA09W-654 | 39 | 210 |
| 58 W1104 | 49 | 230 |
| Mean | 44 | 218 |
| LSD (0.05) | 7 | 65 |
| CV% | 7 | . |

DON (ppm)

| Cultivar/ Designation | DON | DON | DON | DON | DON | DON | MEAN |
|--------------------------|--------------|---------------|---------------|-----------|--------------|---------------|----------|
| | URBANA IL | KINSTON NC | F'VILLE AR | BAY AR | S'BURY MD | LEX'TON KY | ALL LOC. |
| | RANK | RANK | RANK | RANK | RANK | RANK | RANK |
| 1 ERNIE | 9 27 | 2 10 | 25 23 | 2 6 | 0.5 14 | 17 15 | 9 11 |
| 2 COKER 9835 | 11 36 | 8 44 | 38 48 | 5 21 | 3.0 51 | 49 58 | 19 47 |
| 3 BESS | 6 7 | 5 33 | 22 13 | . | 0.8 30 | 21 24 | 10 16 |
| 4 JAMESTOWN | 5 3 | 1 3 | 26 25 | 3 12 | 0.3 5 | 12 2 | 8 5 |
| 5 LA01164D-94-2 | 6 7 | 4 23 | 22 13 | 11 41 | 0.4 8 | 22 28 | 11 21 |
| 6 03M1539#031 | 10 31 | 2 10 | 34 44 | 7 30 | 0.9 32 | 47 57 | 17 44 |
| 7 AR 99054-4-1 | 25 55 | 15 51 | 38 48 | 25 54 | 1.3 40 | 31 46 | 22 53 |
| 8 ARS03-4736 | 13 41 | 10 49 | 40 51 | 16 48 | 3.0 51 | 24 36 | 18 46 |
| 9 ARS05-1234 | 23 53 | 51 57 | 33 39 | 50 56 | 1.7 43 | 22 28 | 30 57 |
| 10 LA01141D-98-6-2 | 17 47 | 3 14 | 32 36 | 14 45 | 0.7 25 | 22 28 | 15 41 |
| 11 03M1539#019 | 10 31 | 6 37 | 33 39 | 8 33 | 0.6 17 | 16 10 | 12 28 |
| 12 AR99092-4-1 | 8 24 | 15 51 | 25 23 | 21 53 | 1.4 41 | 18 18 | 15 41 |
| 13 AR99102-4-1 | 11 36 | 6 37 | 27 29 | 7 30 | 0.6 17 | 25 37 | 13 34 |
| 14 AR99160-1-1-B | 36 58 | 27 56 | 26 25 | 37 55 | 9.8 58 | 39 52 | 29 56 |
| 15 AR99264-8-1 | 14 42 | 6 37 | 23 13 | 14 45 | 1.8 44 | 27 40 | 14 38 |
| 16 AR99311-12-1 | 5 3 | 3 14 | 21 11 | 5 21 | 0.6 17 | 13 4 | 8 5 |
| 17 ARGE97-1042-4-5-20 | 4 1 | 4 23 | 12 1 | 8 33 | 0.5 14 | 22 28 | 8 5 |
| 18 ARGE97-1047-4-2-9 | 4 1 | 1 3 | 12 1 | 5 21 | 0.6 17 | 19 19 | 7 2 |
| 19 ARGE97-1048-3-6-7 | 5 3 | 1 3 | 12 2 | 6 26 | 1.1 36 | 13 4 | 6 1 |
| 20 ARS04-1267 | 17 47 | 3 14 | 29 32 | 12 43 | 0.9 32 | 22 28 | 14 38 |
| 21 ARS05-0005 | 7 17 | 6 37 | 23 13 | 11 41 | 1.2 38 | 21 24 | 11 21 |
| 22 ARS05-0043 | 7 17 | 5 33 | 28 30 | 5 21 | 0.4 8 | 21 24 | 11 21 |
| 23 ARS05-0277 | 15 45 | 5 33 | 36 46 | 7 30 | 2.3 48 | 38 51 | 17 44 |
| 24 ARS07 0095 | 14 42 | 21 55 | 36 46 | 16 48 | 2.2 47 | 29 45 | 20 50 |
| 25 ARS07-0203 | 9 27 | 7 42 | 32 36 | 8 33 | 0.9 32 | 15 7 | 12 28 |
| 26 GA031188-O15 | 33 57 | 7 42 | 49 55 | 10 39 | 0.5 14 | 28 41 | 21 51 |
| 27 GA031188-O16 | 22 51 | 9 48 | 44 52 | 6 26 | 1.1 36 | 33 48 | 19 47 |
| 28 GA031188-O17 | 23 53 | 5 33 | 48 53 | 9 36 | 1.4 41 | 28 41 | 19 47 |
| 29 GA041243-LE36 | 6 7 | 12 50 | 33 39 | 4 16 | 2.7 50 | 13 4 | 12 28 |
| 30 GA041260-Q19 | 18 49 | 8 44 | 53 56 | 16 48 | 4.2 54 | 29 43 | 21 51 |
| 31 GA041271-PL49 | 26 56 | 73 58 | 73 58 | . | 6.5 57 | 42 55 | 43 58 |
| 32 GA041271-Q23 | 21 50 | 17 54 | 60 57 | 20 52 | 5.4 56 | 43 56 | 28 55 |
| 33 GA041271-Q24 | 22 51 | 16 53 | 48 53 | 14 45 | 1.8 44 | 39 52 | 23 54 |
| 34 LA01141D-98-6-3 | 11 36 | 4 23 | 35 45 | 3 12 | 0.4 8 | 26 39 | 13 34 |
| 35 LA02058E63 | 10 31 | 5 32 | 31 34 | 2 6 | 2.0 46 | 17 15 | 11 21 |
| 36 LA02058E97 | 8 24 | 2 10 | 32 36 | 2 6 | 1.2 38 | 33 48 | 13 34 |
| 37 LA03130E68 | 11 36 | 3 14 | 19 8 | 1 1 | 4.5 55 | 39 52 | 13 34 |
| 38 LA03186E2 | 10 31 | 3 14 | 33 39 | 12 43 | 0.6 17 | 15 7 | 12 28 |
| 39 LA04142C-P5 | 15 45 | 0.2 1 | 23 13 | 2 6 | 0.7 25 | 31 46 | 12 28 |
| 40 M08*8005# | 6 7 | 1 3 | 20 9 | 1 1 | 0.6 17 | 20 21 | 8 5 |
| 41 MD01W233-07-1 | 10 31 | 4 23 | 22 13 | 3 12 | 0.9 32 | 16 10 | 9 11 |
| 42 MD02W135-08-9 | 7 17 | 3 14 | 28 30 | 1 1 | 0.4 8 | 16 10 | 9 11 |
| 43 MD03W61-09-1 | 6 7 | 8 44 | 24 20 | 2 6 | 0.3 5 | 17 15 | 10 16 |
| 44 MD03W91-09-7 | 7 17 | 1 3 | 18 6 | 1 1 | 0.3 5 | 23 35 | 8 5 |
| 45 NC07-21036 | 6 7 | 4 23 | 30 33 | 6 26 | 0.2 3 | 12 2 | 10 16 |
| 46 NC07-23081 | 9 27 | 1 3 | 24 20 | 1 1 | 2.4 49 | 20 21 | 10 16 |
| 47 NC07-23126 | 6 7 | 3 14 | 21 11 | 4 16 | 0.0 1 | 35 50 | 11 21 |
| 48 NC07-23771 | 6 7 | 2 10 | 33 39 | 4 16 | 3.4 53 | 15 7 | 11 21 |
| 49 NC07-24445 | 9 27 | 0.2 1 | 24 20 | 5 21 | 0.2 3 | 22 28 | 10 16 |
| 50 VA06W-580 | 6 7 | 6 37 | 20 9 | 4 16 | 0.4 8 | 20 21 | 9 11 |
| 51 VA07W-569 | 11 36 | 4 23 | 23 13 | 9 36 | 0.7 25 | 21 24 | 11 21 |
| 52 VA08W-622 | 7 17 | 3 14 | 18 6 | 3 12 | 0.1 2 | 16 10 | 8 5 |
| 53 VA08W-630 | 8 24 | 4 23 | 26 25 | 10 39 | 0.7 25 | 25 37 | 12 28 |
| 54 VA08W-653 | 7 17 | 8 44 | 31 34 | 16 48 | 0.6 17 | 22 28 | 14 38 |
| 55 VA08W-709 | 6 7 | 3 14 | 26 25 | 4 16 | 0.6 17 | 16 10 | 9 11 |
| 56 VA09W-641 | 5 3 | 1 3 | 17 5 | 2 6 | 0.4 8 | 19 19 | 7 2 |
| 57 VA09W-654 | 7 17 | 4 23 | 16 4 | 6 26 | 0.8 30 | 10 1 | 7 2 |
| 58 W1104 | 14 42 | 4 23 | 39 50 | 9 36 | 0.7 25 | 29 43 | 16 43 |

| | | | | | | | |
|------------|------|----|----|---|-----|----|------|
| Mean | 11.3 | 8 | 30 | 9 | 1.4 | 24 | 14 |
| LSD (0.05) | 4 | 10 | 9 | . | . | . | 13 |
| CV% | 18.9 | 69 | . | . | . | . | 48.7 |

Greenhouse Screening

| | Cultivar/ Designation | NC | MO | VA | MEAN | RANK | NC | MO | Mean |
|----|--------------------------|---------------|---------------|---------------|---------------|------|-----------------------|-----------------------|------|
| | | SEVERITY % | SEVERITY % | SEVERITY % | SEVERITY % | | SEVERITY # florets | SEVERITY # florets | |
| 1 | ERNIE | 5 | 19 | 26 | 16 | 14 | 1 | 2 | 1.5 |
| 2 | COKER 9835 | 61 | 63 | 79 | 68 | 54 | 9 | 8 | 8.5 |
| 3 | BESS | 8 | 4 | 8 | 7 | 1 | 2 | 1 | 1.1 |
| 4 | JAMESTOWN | 5 | 27 | 21 | 18 | 19 | 1 | 3 | 2.1 |
| 5 | LA01164D-94-2 | 40 | 10 | 19 | 23 | 29 | 6 | 1 | 3.7 |
| 6 | 03M1539#031 | 24 | 37 | 34 | 32 | 37 | 4 | 5 | 4.4 |
| 7 | AR 99054-4-1 | 10 | 45 | 43 | 33 | 40 | 2 | 7 | 4.8 |
| 8 | ARS03-4736 | 14 | 10 | 29 | 18 | 18 | 3 | 1 | 1.8 |
| 9 | ARS05-1234 | 4 | 11 | 35 | 17 | 15 | 1 | 2 | 1.4 |
| 10 | LA01141D-98-6-2 | 14 | 37 | 13 | 21 | 26 | 2 | 4 | 2.8 |
| 11 | 03M1539#019 | 13 | 35 | 22 | 23 | 30 | 3 | 6 | 4.2 |
| 12 | AR99092-4-1 | 6 | 18 | 18 | 14 | 10 | 1 | 3 | 2.1 |
| 13 | AR99102-4-1 | 68 | 38 | 36 | 47 | 47 | 10 | 5 | 7.4 |
| 14 | AR99160-1-1-B | 7 | 6 | 17 | 10 | 5 | 1 | 1 | 1.1 |
| 15 | AR99264-8-1 | 11 | 25 | 18 | 18 | 20 | 2 | 3 | 2.5 |
| 16 | AR99311-12-1 | 15 | 36 | 11 | 20 | 25 | 3 | 4 | 3.5 |
| 17 | ARGE97-1042-4-5-20 | 14 | 19 | 12 | 15 | 11 | 3 | 2 | 2.6 |
| 18 | ARGE97-1047-4-2-9 | 5 | 11 | 11 | 9 | 3 | 1 | 1 | 0.9 |
| 19 | ARGE97-1048-3-6-7 | 10 | 14 | 47 | 23 | 31 | 2 | 2 | 1.7 |
| 20 | ARS04-1267 | 6 | 19 | 15 | 14 | 7 | 1 | 2 | 1.4 |
| 21 | ARS05-0005 | 4 | 39 | 100 | 48 | 48 | 1 | 6 | 3.1 |
| 22 | ARS05-0043 | 6 | 10 | 39 | 18 | 21 | 1 | 1 | 1.2 |
| 23 | ARS05-0277 | 82 | 32 | 73 | 62 | 53 | 14 | 4 | 8.6 |
| 24 | ARS07 0095 | 14 | 31 | 58 | 35 | 41 | 3 | 5 | 3.7 |
| 25 | ARS07-0203 | 20 | 43 | 57 | 40 | 44 | 4 | 7 | 5.5 |
| 26 | GA031188-O15 | 100 | 65 | 100 | 88 | 58 | 14 | 8 | 10.8 |
| 27 | GA031188-O16 | 58 | 64 | 83 | 68 | 55 | 7 | 7 | 6.9 |
| 28 | GA031188-O17 | 74 | 57 | 100 | 77 | 56 | 9 | 7 | 7.8 |
| 29 | GA041243-LE36 | 44 | 33 | 74 | 50 | 49 | 7 | 4 | 5.7 |
| 30 | GA041260-Q19 | 25 | 51 | 100 | 59 | 52 | 4 | 5 | 4.7 |
| 31 | GA041271-PL49 | 33 | 27 | 57 | 39 | 43 | 8 | 5 | 6.5 |
| 32 | GA041271-Q23 | 96 | 56 | 82 | 78 | 57 | 20 | 8 | 13.9 |
| 33 | GA041271-Q24 | 83 | 51 | 37 | 57 | 51 | 16 | 7 | 11.4 |
| 34 | LA01141D-98-6-3 | 14 | 45 | 57 | 39 | 42 | 2 | 5 | 3.7 |
| 35 | LA02058E63 | 46 | 13 | 8 | 23 | 28 | 6 | 1 | 3.9 |
| 36 | LA02058E97 | 19 | 31 | 44 | 31 | 36 | 3 | 4 | 3.0 |
| 37 | LA03130E68 | 7 | 13 | 22 | 14 | 9 | 1 | 2 | 1.2 |
| 38 | LA03186E2 | 11 | 8 | 39 | 19 | 24 | 2 | 1 | 1.9 |
| 39 | LA04142C-P5 | 59 | 38 | 36 | 44 | 46 | 9 | 5 | 7.0 |
| 40 | M08*8005# | 26 | 44 | 23 | 31 | 35 | 5 | 7 | 5.9 |
| 41 | MD01W233-07-1 | 15 | 24 | 36 | 25 | 33 | 2 | 4 | 3.0 |
| 42 | MD02W135-08-9 | 10 | 26 | 44 | 27 | 34 | 2 | 5 | 3.5 |
| 43 | MD03W61-09-1 | 6 | 15 | 20 | 14 | 8 | 1 | 2 | 1.4 |
| 44 | MD03W91-09-7 | 7 | 12 | 6 | 9 | 2 | 1 | 2 | 1.4 |
| 45 | NC07-21036 | 5 | 12 | 35 | 17 | 17 | 1 | 2 | 1.3 |
| 46 | NC07-23081 | 6 | 15 | 35 | 19 | 22 | 1 | 2 | 1.4 |
| 47 | NC07-23126 | 7 | 42 | 75 | 41 | 45 | 1 | 5 | 3.1 |
| 48 | NC07-23771 | 8 | 14 | 53 | 25 | 32 | 1 | 2 | 1.5 |
| 49 | NC07-24445 | 71 | 64 | 22 | 52 | 50 | 9 | 7 | 8.0 |
| 50 | VA06W-580 | 25 | 29 | 43 | 33 | 39 | 3 | 3 | 3.1 |
| 51 | VA07W-569 | 14 | 16 | 28 | 19 | 23 | 2 | 3 | 2.4 |
| 52 | VA08W-622 | 15 | 40 | 41 | 32 | 38 | 3 | 5 | 3.7 |
| 53 | VA08W-630 | 8 | 8 | 12 | 10 | 4 | 1 | 2 | 1.5 |
| 54 | VA08W-653 | 9 | 7 | 31 | 16 | 13 | 1 | 1 | 1.2 |
| 55 | VA08W-709 | 19 | 16 | 10 | 15 | 12 | 3 | 2 | 2.5 |
| 56 | VA09W-641 | 18 | 6 | 15 | 13 | 6 | 3 | 1 | 1.9 |
| 57 | VA09W-654 | 5 | 4 | 56 | 21 | 27 | 1 | 1 | 0.6 |
| 58 | W1104 | 20 | 17 | 15 | 17 | 16 | 3 | 3 | 2.9 |

| | | | | | | | |
|------------|----|----|----|------|---|-----|-----|
| Mean | 25 | 28 | 39 | 31 | 4 | 3.7 | 3.8 |
| LSD (0.05) | . | . | . | 29.0 | . | . | . |
| CV% | . | . | . | 43.2 | . | . | . |

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

| CULTIVAR/ DESIGNATION | Fhb1 | Wuh-1 2DL | Ning 5AS | Ernie 3BSc | Ernie 5AS | H9 | H13 | 1RS tran | Lr34/Yr18 | Lr24/Sr24 |
|--------------------------|------|--------------|-------------|---------------|--------------|-----|-----|------------------|-----------|-----------|
| 1 ERNIE | . | . | . | yes | yes | . | . | . | . | . |
| 2 COKER 9835 | . | . | . | . | . | . | . | . | . | . |
| 3 BESS | . | . | . | . | . | . | . | . | . | . |
| 4 JAMESTOWN | . | . | . | . | . | . | . | . | . | . |
| 5 LA01164D-94-2 | yes | . | . | . | . | . | . | . | . | . |
| 6 03M1539#031 | . | . | . | . | . | yes | . | . | . | . |
| 7 AR 99054-4-1 | . | . | . | . | . | . | . | . | . | . |
| 8 ARS03-4736 | . | . | . | . | . | . | . | 1RS:1AL | . | . |
| 9 ARS05-1234 | . | . | . | . | . | . | . | . | . | . |
| 10 LA01141D-98-6-2 | . | . | . | . | . | . | . | . | yes | . |
| 11 03M1539#019 | . | . | . | . | . | yes | . | 1RS:1BL | . | . |
| 12 AR99092-4-1 | . | . | . | . | . | . | . | . | . | . |
| 13 AR99102-4-1 | . | . | . | . | . | . | . | . | . | . |
| 14 AR99160-1-1-B | . | . | . | yes | . | . | . | . | . | . |
| 15 AR99264-8-1 | . | . | . | . | . | . | . | . | . | . |
| 16 AR99311-12-1 | . | . | . | . | . | . | . | . | . | . |
| 17 ARGE97-1042-4-5-20 | . | . | . | . | . | . | . | 1RS:1BL | . | . |
| 18 ARGE97-1047-4-2-9 | het? | . | . | . | . | . | . | 1RS:1BL | . | . |
| 19 ARGE97-1048-3-6-7 | . | yes | . | . | . | . | . | . | . | . |
| 20 ARS04-1267 | . | . | . | . | . | . | . | 1RS:1AL | . | . |
| 21 ARS05-0005 | . | . | . | . | . | . | . | . | . | yes |
| 22 ARS05-0043 | . | . | . | . | . | . | . | . | . | yes |
| 23 ARS05-0277 | . | . | . | . | . | . | . | 1RS:1AL | . | . |
| 24 ARS07 0095 | . | . | . | . | het | . | . | 1RS:1AL | . | yes |
| 25 ARS07-0203 | . | . | . | . | . | . | . | . | . | . |
| 26 GA031188-O15 | . | . | . | . | . | . | . | . | . | . |
| 27 GA031188-O16 | . | . | . | . | . | . | . | . | . | . |
| 28 GA031188-O17 | . | . | . | . | . | . | . | . | . | . |
| 29 GA041243-LE36 | . | . | . | . | . | . | yes | . | . | . |
| 30 GA041260-Q19 | . | . | . | . | . | . | . | . | . | . |
| 31 GA041271-PL49 | . | . | . | . | . | . | . | . | . | . |
| 32 GA041271-Q23 | . | . | . | . | . | . | . | . | . | . |
| 33 GA041271-Q24 | . | . | . | . | . | . | . | . | . | . |
| 34 LA01141D-98-6-3 | . | . | . | . | . | . | . | . | yes | . |
| 35 LA02058E63 | yes | yes | . | het? | . | . | . | 1RS:1BL | . | . |
| 36 LA02058E97 | yes | yes | . | . | . | . | . | 1RS:1BL | . | . |
| 37 LA03130E68 | . | . | . | . | . | . | . | . | yes | . |
| 38 LA03186E2 | . | yes | . | . | . | . | . | . | . | . |
| 39 LA04142C-P5 | . | . | . | . | . | . | . | . | . | . |
| 40 M08*8005# | . | . | . | . | . | . | . | . | . | . |
| 41 MD01W233-07-1 | . | . | . | . | . | . | . | 1RS:1AL | . | yes |
| 42 MD02W135-08-9 | . | . | . | . | . | . | . | 1RS:1BL, 1RS:1AL | . | . |
| 43 MD03W61-09-1 | ? | . | . | . | . | . | . | 1RS:1BL | . | . |
| 44 MD03W91-09-7 | . | . | . | . | . | . | . | 1RS:1AL | . | . |
| 45 NC07-21036 | . | . | . | . | . | . | . | 1RS:1AL | . | yes |
| 46 NC07-23081 | . | . | . | . | . | yes | . | 1RS:1AL | . | . |
| 47 NC07-23126 | . | . | . | . | . | . | . | 1RS:1AL | . | yes |
| 48 NC07-23771 | . | . | . | . | . | . | . | . | . | . |
| 49 NC07-24445 | . | . | . | yes | . | . | . | . | . | . |
| 50 VA06W-580 | . | . | . | . | . | . | . | . | . | . |
| 51 VA07W-569 | . | . | . | yes? | . | . | . | 1RS:1AL | . | . |
| 52 VA08W-622 | . | . | . | . | . | . | . | non-1RS | . | . |
| 53 VA08W-630 | . | . | . | . | . | . | . | 1RS:1AL | . | . |
| 54 VA08W-653 | . | . | . | . | . | yes | . | . | . | . |
| 55 VA08W-709 | . | . | . | . | . | . | . | 1RS:1BL, 1RS:1AL | . | yes |
| 56 VA09W-641 | . | . | . | . | yes | . | . | 1RS:1AL | . | . |
| 57 VA09W-654 | . | . | . | . | . | . | . | . | . | . |
| 58 W1104 | . | . | . | . | yes | . | . | 1RS:1BL | . | . |

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

| CULTIVAR/ DESIGNATION | Sr2 | Sr36 | Lr37/Yr17/ Sr28 | BVD2/3 | Rht-B1b (Rht1) | Rht-D1b (Rht2) | Rht8 | Ppd-D1a Insen. | Bx7 OE | Glu-D1 | Glu-A1 |
|--------------------------|-----|------|--------------------|--------|-------------------|-------------------|------|-------------------|--------|--------|-------------|
| 1 ERNIE | . | het | . | . | yes | . | . | . | . | 2+12 | Ax1 or null |
| 2 COKER 9835 | . | yes | . | . | . | yes | . | yes | . | 2+12 | Ax2* |
| 3 BESS | . | . | . | . | yes | . | . | het | . | 2+12 | Ax1 or null |
| 4 JAMESTOWN | . | . | . | . | . | Negative | . | yes | . | 2+12 | Ax2* |
| 5 LA01164D-94-2 | . | het | yes | . | . | yes | . | . | yes | 2+12 | het |
| 6 03M1539#031 | . | . | . | . | yes | het | . | yes | . | 2+12 | het |
| 7 AR 99054-4-1 | . | . | . | . | . | . | . | . | . | 2+12 | Ax2* |
| 8 ARS03-4736 | . | . | . | . | yes | . | . | nd | . | 2+12 | Ax2* |
| 9 ARS05-1234 | . | . | yes | . | yes | . | . | . | . | 2+12 | Ax1 or null |
| 10 LA01141D-98-6-2 | . | . | yes | . | . | yes | . | yes | het | 2+12 | Ax2* |
| 11 03M1539#019 | . | . | yes | . | yes | . | . | . | . | 2+12 | Ax2* |
| 12 AR99092-4-1 | . | . | . | . | . | . | . | yes | . | 2+12 | Ax2* |
| 13 AR99102-4-1 | . | . | . | . | het | . | het | yes | . | 5+10 | Ax1 or null |
| 14 AR99160-1-1-B | . | . | . | . | . | . | . | . | . | 2+12 | Ax1 or null |
| 15 AR99264-8-1 | . | . | . | . | . | . | . | yes | . | 2+12 | Ax2* |
| 16 AR99311-12-1 | . | . | . | . | . | yes | . | yes | . | 2+12 | Ax2* |
| 17 ARGE97-1042-4-5-20 | . | . | . | . | yes | . | . | . | . | 2+12 | Ax2* |
| 18 ARGE97-1047-4-2-9 | . | . | . | . | het | . | . | yes | . | het? | Ax2* |
| 19 ARGE97-1048-3-6-7 | . | . | . | . | yes | . | . | yes | . | 2+12 | Ax1 or null |
| 20 ARS04-1267 | . | . | yes | . | yes | . | . | . | . | 5+10 | Ax2* |
| 21 ARS05-0005 | . | . | . | . | yes | . | . | yes | . | 2+12 | Ax2* |
| 22 ARS05-0043 | . | . | . | . | yes | . | . | yes | . | 2+12 | Ax1 or null |
| 23 ARS05-0277 | . | het | . | . | yes | . | . | . | . | 5+10 | Ax2* |
| 24 ARS07 0095 | . | . | . | . | Unknown | Unknown | . | . | . | 5+10 | het |
| 25 ARS07-0203 | . | yes | yes | . | . | yes | . | yes | . | 2+12 | Ax1 or null |
| 26 GA031188-O15 | . | . | yes | . | . | yes | . | yes | . | 2+12 | Ax2* |
| 27 GA031188-O16 | . | . | yes | . | . | yes | . | yes | . | 2+12 | Ax2* |
| 28 GA031188-O17 | . | . | yes | . | . | yes | . | yes | . | 2+12 | Ax2* |
| 29 GA041243-LE36 | . | . | yes | . | yes | . | . | yes | . | 2+12 | Ax1 or null |
| 30 GA041260-Q19 | . | . | yes | . | . | yes | . | yes | . | 2+12 | Ax1 or null |
| 31 GA041271-PL49 | . | . | yes | . | . | yes | . | . | . | 5+10 | Ax2* |
| 32 GA041271-Q23 | . | . | yes | . | Unknown | Unknown | . | . | . | 5+10 | Ax2* |
| 33 GA041271-Q24 | . | . | yes | . | . | yes | . | . | . | 5+10 | Ax2* |
| 34 LA01141D-98-6-3 | . | . | yes | . | . | yes | . | yes | . | 2+12 | Ax2* |
| 35 LA02058E63 | . | . | yes | . | . | yes | yes | yes | . | het? | Ax1 or null |
| 36 LA02058E97 | . | . | yes | . | . | yes | yes | yes | . | het | Ax1 or null |
| 37 LA03130E68 | . | yes | . | . | yes | . | . | yes | . | 2+12 | Ax2* |
| 38 LA03186E2 | . | . | . | . | yes | . | . | . | . | 2+12 | Ax1 or null |
| 39 LA04142C-P5 | . | . | . | . | . | . | . | . | . | 2+12 | Ax2* |
| 40 M08*8005# | . | . | . | . | yes | Unknown | . | yes | . | 5+10 | Ax2* |
| 41 MD01W233-07-1 | . | . | . | . | . | yes | . | . | . | 2+12 | Ax2* |
| 42 MD02W135-08-9 | . | . | . | . | . | yes | . | . | . | 2+12 | Ax2* |
| 43 MD03W61-09-1 | . | . | . | . | . | yes | . | yes | . | 2+12 | Ax1 or null |
| 44 MD03W91-09-7 | . | yes | . | . | . | het | . | yes | . | 5+10 | Ax2* |
| 45 NC07-21036 | . | . | . | . | . | yes | . | . | . | 2+12 | Ax2* |
| 46 NC07-23081 | . | yes | . | . | yes | . | . | yes | . | 2+12 | Ax2* |
| 47 NC07-23126 | . | yes | . | . | yes | . | . | . | . | 5+10 | Ax2* |
| 48 NC07-23771 | . | yes | . | . | . | Unknown | . | . | . | 2+12 | Ax1 or null |
| 49 NC07-24445 | . | yes | . | . | . | yes | yes | yes | . | 5+10 | Ax1 or null |
| 50 VA06W-580 | . | yes | . | . | . | yes | . | yes | . | 2+12 | Ax2* |
| 51 VA07W-569 | . | . | . | . | . | yes | . | . | . | 2+12 | Ax2* |
| 52 VA08W-622 | . | yes | . | . | . | . | . | . | . | 2+12 | Ax1 or null |
| 53 VA08W-630 | . | . | . | . | . | yes | . | . | . | 2+12 | Ax2* |
| 54 VA08W-653 | . | het | . | . | . | yes | . | . | . | 2+12 | Ax1 or null |
| 55 VA08W-709 | . | . | . | . | . | yes | . | . | . | het? | Ax2* |
| 56 VA09W-641 | . | . | . | . | . | yes | . | . | . | 2+12 | het |
| 57 VA09W-654 | . | . | . | . | . | . | . | . | . | 5+10 | Ax1 or null |
| 58 W1104 | . | . | . | . | yes | . | . | yes | yes | 2+12 | Ax2* |

Heading Date (Julian Days*)

| | URBANA IL | COL'BIA MO | S'BURY MD | LEX'TON KY | BAY AR | FUN'LEA ROM | MEAN ALL LOC. | RANK |
|-----------------------|--------------|---------------|--------------|---------------|-----------|----------------|------------------|------|
| 1 ERNIE | 126 | 141 | 120 | 128 | 115 | 131 | 127 | 6 |
| 2 COKER 9835 | 130 | 144 | 122 | 132 | 118 | 132 | 130 | 41 |
| 3 BESS | 128 | 144 | 122 | 126 | 118 | 133 | 129 | 28 |
| 4 JAMESTOWN | 125 | 140 | 120 | 124 | 110 | 132 | 125 | 2 |
| 5 LA01164D-94-2 | 130 | 144 | 121 | 130 | 118 | 133 | 129 | 28 |
| 6 03M1539#031 | 128 | 140 | 121 | 127 | 117 | 132 | 128 | 11 |
| 7 AR 99054-4-1 | 133 | 144 | 122 | 131 | 120 | 134 | 131 | 49 |
| 8 ARS03-4736 | 127 | 144 | 121 | 126 | 117 | 132 | 128 | 11 |
| 9 ARS05-1234 | 133 | 146 | 125 | 133 | 122 | 133 | 132 | 57 |
| 10 LA01141D-98-6-2 | 131 | 144 | 121 | 130 | 118 | 132 | 129 | 28 |
| 11 03M1539#019 | 131 | 143 | 121 | 128 | 118 | 133 | 129 | 28 |
| 12 AR99092-4-1 | 131 | 144 | 123 | 130 | 120 | 133 | 130 | 41 |
| 13 AR99102-4-1 | 130 | 144 | 121 | 131 | 117 | 134 | 130 | 41 |
| 14 AR99160-1-1-B | 132 | 145 | 123 | 131 | 121 | 134 | 131 | 49 |
| 15 AR99264-8-1 | 129 | 144 | 123 | 131 | 118 | 135 | 130 | 41 |
| 16 AR99311-12-1 | 129 | 143 | 121 | 128 | 116 | 133 | 128 | 11 |
| 17 ARGE97-1042-4-5-20 | 128 | 140 | 126 | 127 | 117 | 132 | 128 | 11 |
| 18 ARGE97-1047-4-2-9 | 126 | 141 | 119 | 126 | 116 | 130 | 126 | 3 |
| 19 ARGE97-1048-3-6-7 | 129 | 139 | 120 | 127 | 116 | 130 | 127 | 6 |
| 20 ARS04-1267 | 126 | 144 | 120 | 129 | 116 | 134 | 128 | 11 |
| 21 ARS05-0005 | 131 | 143 | 122 | 130 | 117 | 133 | 129 | 28 |
| 22 ARS05-0043 | 128 | 140 | 121 | 128 | 117 | 132 | 128 | 11 |
| 23 ARS05-0277 | 128 | 144 | 122 | 131 | 118 | 134 | 129 | 28 |
| 24 ARS07 0095 | 132 | 145 | 122 | 132 | 120 | 134 | 131 | 49 |
| 25 ARS07-0203 | 131 | 144 | 125 | 132 | 120 | 136 | 131 | 49 |
| 26 GA031188-O15 | 129 | 142 | 120 | 129 | 116 | 132 | 128 | 11 |
| 27 GA031188-O16 | 129 | 143 | 121 | 129 | 115 | 132 | 128 | 11 |
| 28 GA031188-O17 | 129 | 144 | 121 | 129 | 115 | 133 | 129 | 28 |
| 29 GA041243-LE36 | 127 | 143 | 120 | 129 | 116 | 131 | 128 | 11 |
| 30 GA041260-Q19 | 130 | 144 | 120 | 129 | 118 | 134 | 129 | 28 |
| 31 GA041271-PL49 | 139 | 147 | 126 | 142 | 123 | 139 | 136 | 58 |
| 32 GA041271-Q23 | 130 | 145 | 123 | 133 | 120 | 136 | 131 | 49 |
| 33 GA041271-Q24 | 131 | 145 | 122 | 133 | 119 | 136 | 131 | 49 |
| 34 LA01141D-98-6-3 | 129 | 144 | 120 | 129 | 117 | 132 | 128 | 11 |
| 35 LA02058E63 | 129 | 141 | 120 | 126 | 115 | 132 | 127 | 6 |
| 36 LA02058E97 | 130 | 142 | 121 | 128 | 117 | 132 | 128 | 11 |
| 37 LA03130E68 | 123 | 143 | 118 | 125 | 108 | 129 | 124 | 1 |
| 38 LA03186E2 | 131 | 144 | 122 | 130 | 118 | 134 | 130 | 41 |
| 39 LA04142C-P5 | 130 | 144 | 118 | 129 | 115 | 132 | 128 | 11 |
| 40 M08*8005# | 126 | 140 | 119 | 127 | 114 | 131 | 126 | 3 |
| 41 MD01W233-07-1 | 132 | 144 | 122 | 135 | 119 | 135 | 131 | 49 |
| 42 MD02W135-08-9 | 129 | 144 | 120 | 129 | 117 | 134 | 129 | 28 |
| 43 MD03W61-09-1 | 129 | 141 | 121 | 128 | 116 | 132 | 128 | 11 |
| 44 MD03W91-09-7 | 128 | 142 | 120 | 126 | 116 | 132 | 127 | 6 |
| 45 NC07-21036 | 133 | 143 | 122 | 131 | 119 | 134 | 130 | 41 |
| 46 NC07-23081 | 127 | 143 | 121 | 128 | 116 | 133 | 128 | 11 |
| 47 NC07-23126 | 128 | 144 | 121 | 130 | 117 | 133 | 129 | 28 |
| 48 NC07-23771 | 131 | 144 | 121 | 127 | 117 | 135 | 129 | 28 |
| 49 NC07-24445 | 126 | 141 | 120 | 129 | 116 | 132 | 127 | 6 |
| 50 VA06W-580 | 128 | 142 | 120 | 128 | 115 | 132 | 128 | 11 |
| 51 VA07W-569 | 129 | 144 | 121 | 131 | 118 | 133 | 129 | 28 |
| 52 VA08W-622 | 126 | 144 | 120 | 131 | 116 | 132 | 128 | 11 |
| 53 VA08W-630 | 129 | 144 | 121 | 130 | 117 | 132 | 129 | 28 |
| 54 VA08W-653 | 132 | 145 | 121 | 130 | 118 | 133 | 130 | 41 |
| 55 VA08W-709 | 127 | 143 | 120 | 127 | 117 | 134 | 128 | 11 |
| 56 VA09W-641 | 125 | 140 | 118 | 125 | 113 | 133 | 126 | 3 |
| 57 VA09W-654 | 131 | 146 | 125 | 136 | 123 | 126 | 131 | 49 |
| 58 W1104 | 131 | 144 | 122 | 130 | 117 | 135 | 130 | 41 |

| | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|
| Mean | 129 | 143 | 121 | 129 | 117 | 133 | 129 |
| LSD (0.05) | . | . | 2.3 | 3 | . | . | 3 |
| CV% | . | . | 1.0 | 2.2 | . | . | 1.1 |

*Days after December 31, 2009

Plant Height (in)

| CULTIVAR/ DESIGNATION | LEX'TON KY | S'BURY MD | FUN'LEA ROM | MEAN ALL LOC. | RANK |
|--------------------------|---------------|--------------|----------------|------------------|------|
| 1 ERNIE | 27 | 30 | 43 | 33 | 20 |
| 2 COKER 9835 | 31 | 30 | 35 | 32 | 13 |
| 3 BESS | 32 | 32 | 40 | 35 | 33 |
| 4 JAMESTOWN | 28 | 29 | 38 | 31 | 9 |
| 5 LA01164D-94-2 | 35 | 33 | 44 | 37 | 50 |
| 6 03M1539#031 | 31 | 31 | 46 | 36 | 43 |
| 7 AR 99054-4-1 | 35 | 34 | 48 | 39 | 55 |
| 8 ARS03-4736 | 32 | 36 | 40 | 36 | 45 |
| 9 ARS05-1234 | 35 | 33 | 40 | 36 | 41 |
| 10 LA01141D-98-6-2 | 31 | 29 | 35 | 32 | 11 |
| 11 03M1539#019 | 31 | 33 | 44 | 36 | 46 |
| 12 AR99092-4-1 | 35 | 39 | 53 | 42 | 58 |
| 13 AR99102-4-1 | 32 | 30 | 46 | 36 | 44 |
| 14 AR99160-1-1-B | 36 | 36 | 54 | 42 | 57 |
| 15 AR99264-8-1 | 37 | 36 | 52 | 42 | 56 |
| 16 AR99311-12-1 | 27 | 30 | 38 | 32 | 10 |
| 17 ARGE97-1042-4-5-20 | 32 | 33 | 40 | 35 | 34 |
| 18 ARGE97-1047-4-2-9 | 34 | 33 | 46 | 38 | 51 |
| 19 ARGE97-1048-3-6-7 | 32 | 36 | 46 | 38 | 53 |
| 20 ARS04-1267 | 32 | 32 | 36 | 33 | 23 |
| 21 ARS05-0005 | 31 | 33 | 38 | 34 | 28 |
| 22 ARS05-0043 | 31 | 33 | 38 | 34 | 27 |
| 23 ARS05-0277 | 29 | 31 | 35 | 32 | 12 |
| 24 ARS07 0095 | 29 | 33 | 41 | 34 | 29 |
| 25 ARS07-0203 | 30 | 31 | 38 | 33 | 16 |
| 26 GA031188-O15 | 32 | 34 | 44 | 36 | 49 |
| 27 GA031188-O16 | 30 | 34 | 39 | 34 | 31 |
| 28 GA031188-O17 | 30 | 31 | 40 | 34 | 24 |
| 29 GA041243-LE36 | 30 | 34 | 43 | 36 | 40 |
| 30 GA041260-Q19 | 30 | 29 | 39 | 33 | 17 |
| 31 GA041271-PL49 | 36 | 36 | 42 | 38 | 52 |
| 32 GA041271-Q23 | 34 | 36 | 40 | 36 | 48 |
| 33 GA041271-Q24 | 33 | 34 | 41 | 36 | 47 |
| 34 LA01141D-98-6-3 | 30 | 30 | 40 | 33 | 22 |
| 35 LA02058E63 | 32 | 32 | 35 | 33 | 19 |
| 36 LA02058E97 | 33 | 35 | 38 | 35 | 38 |
| 37 LA03130E68 | 31 | 33 | 42 | 35 | 36 |
| 38 LA03186E2 | 35 | 35 | 46 | 38 | 54 |
| 39 LA04142C-P5 | 33 | 33 | 42 | 36 | 42 |
| 40 M08*8005# | 30 | 31 | 43 | 34 | 30 |
| 41 MD01W233-07-1 | 28 | 31 | 35 | 31 | 8 |
| 42 MD02W135-08-9 | 29 | 32 | 28 | 30 | 4 |
| 43 MD03W61-09-1 | 30 | 30 | 42 | 34 | 26 |
| 44 MD03W91-09-7 | 32 | 30 | 45 | 35 | 37 |
| 45 NC07-21036 | 29 | 28 | 33 | 30 | 5 |
| 46 NC07-23081 | 30 | 31 | 38 | 33 | 18 |
| 47 NC07-23126 | 29 | 32 | 36 | 32 | 15 |
| 48 NC07-23771 | 28 | 31 | 38 | 32 | 14 |
| 49 NC07-24445 | 28 | 30 | 35 | 31 | 7 |
| 50 VA06W-580 | 27 | 29 | 29 | 28 | 2 |
| 51 VA07W-569 | 33 | 32 | 42 | 36 | 39 |
| 52 VA08W-622 | 30 | 30 | 43 | 34 | 32 |
| 53 VA08W-630 | 28 | 27 | 33 | 29 | 3 |
| 54 VA08W-653 | 27 | 25 | 29 | 27 | 1 |
| 55 VA08W-709 | 29 | 33 | 40 | 34 | 25 |
| 56 VA09W-641 | 29 | 33 | 38 | 33 | 21 |
| 57 VA09W-654 | 34 | 30 | 42 | 35 | 35 |
| 58 W1104 | 28 | 27 | 38 | 31 | 6 |

| | | | | |
|------------|-----|-----|----|-----|
| Mean | 31 | 32 | 40 | 34 |
| LSD (0.05) | 3 | 4.8 | . | 5 |
| CV% | 8.4 | 7.5 | . | 7.2 |

Leaf and Viral Disease Ratings

| CULTIVAR/ DESIGNATION | J 148 | J 157 | POWDERY MILDEW (0-9) | Stripe | Stripe | Stripe | Stem | Stem | Spindle Streak 0-9 BAY AR | FHB Rating 0-9 BAY AR |
|--------------------------|---------|---------|----------------------------|-------------|-------------|---------|---------|---------|---------------------------------------|-----------------------------------|
| | LEAF | LEAF | | Rust | Rust | Rust | Rust | Rust | | |
| | RUST | RUST | | (0-9) | (0-9) | (0-9) | (0-9) | (0-9) | | |
| | (0-9) | (0-9) | | FUN'LEA | FUN'LEA | FUN'LEA | FUN'LEA | FUN'LEA | | |
| FUN'LEA | FUN'LEA | FUN'LEA | FUN'LEA | F'VILLE (1) | F'VILLE (2) | F'VILLE | F'VILLE | BAY | BAY | |
| ROM | ROM | ROM | ROM | AR | AR | AR | AR | AR | AR | |
| 1 ERNIE | 3 | 6.0 | 2 | 0 | 63 | 15 | 2 | 1 | 4.0 | 4 |
| 2 COKER 9835 | 2 | 2.0 | 1 | MSS | 54 | 63 | 0 | 0 | 5.0 | 5 |
| 3 BESS | 4 | 5.0 | 3 | 0 | 1 | 0 | 2 | 2 | 4.5 | 5 |
| 4 JAMESTOWN | 0 | 1-2 | 1 | 0 | 0 | 0 | 2 | 1 | 4.5 | 5 |
| 5 LA01164D-94-2 | 0 | 1.0 | 2 | TR | 23 | 43 | 0 | 0 | 5.5 | 6 |
| 6 03M1539#031 | 2 | 2.0 | 3 | MS | 7 | 6 | 70 | 3 | 5.5 | 6 |
| 7 AR 99054-4-1 | 3 | 9.0 | 2 | 0 | 1 | 0 | 15 | 3 | 2.5 | 3 |
| 8 ARS03-4736 | 2 | 2.0 | 2-3 | MSS | 1 | 1 | 7 | 2 | 2.0 | 2 |
| 9 ARS05-1234 | 0 | TR R-MR | 3 | 0 | 3 | 57 | 0 | 0 | 2.0 | 2 |
| 10 LA01141D-98-6-2 | 0 | 3-4 | 2 | 0 | 2 | 0 | 30 | 3 | 7.5 | 8 |
| 11 03M1539#019 | 0 | 4.0 | 3 | 0 | 10 | 68 | 2 | 1 | 6.5 | 7 |
| 12 AR99092-4-1 | 3 | TR MR | 1 | 0 | 0 | 2 | 2 | 1 | 5.0 | 5 |
| 13 AR99102-4-1 | 0 | 1-2 | 2-3 | 0 | 1 | 5 | 0 | 0 | 3.5 | 4 |
| 14 AR99160-1-1-B | 0 | 2.0 | 1 | 0 | 0 | 0 | 2 | 1 | 6.0 | 6 |
| 15 AR99264-8-1 | 0 | 1-2 | 1 | 0 | 0 | 0 | 30 | 3 | 4.5 | 5 |
| 16 AR99311-12-1 | 0 | TR | 2 | 0 | 0 | 0 | 2 | 1 | 4.5 | 5 |
| 17 ARGE97-1042-4-5-20 | 0 | TR | 1 | 0 | 0 | 0 | 2 | 1 | 7.5 | 8 |
| 18 ARGE97-1047-4-2-9 | 0 | TR | 2 | 0 | 1 | 0 | 0 | 0 | 6.0 | 6 |
| 19 ARGE97-1048-3-6-7 | 0 | TR | 3 | MS | 3 | 1 | 7 | 1 | 6.5 | 7 |
| 20 ARS04-1267 | 0 | TR | 1 | 0 | 0 | 0 | 2 | 1 | 2.0 | 2 |
| 21 ARS05-0005 | 0 | TR | 0 | 0 | 1 | 0 | 2 | 1 | 4.5 | 5 |
| 22 ARS05-0043 | 0 | TR | 1 | 0 | 0 | 0 | 7 | 1 | 4.0 | 4 |
| 23 ARS05-0277 | 0 | TR | 1 | 0 | 1 | 0 | 0 | 0 | 4.5 | 5 |
| 24 ARS07 0095 | 0 | TR | 2 | MS | 1 | 0 | 2 | 1 | 3.0 | 3 |
| 25 ARS07-0203 | 0 | TR | 1 | 0 | 0 | 0 | 2 | 1 | 4.5 | 5 |
| 26 GA031188-O15 | 0 | TR MR | 1 | 0 | 1 | 0 | 0 | 0 | 2.5 | 3 |
| 27 GA031188-O16 | 0 | TR | 1 | 0 | 1 | 0 | 0 | 0 | 3.0 | 3 |
| 28 GA031188-O17 | 0 | TR | 1 | 0 | 1 | 0 | 0 | 0 | 3.0 | 3 |
| 29 GA041243-LE36 | 0 | TR MR | 2 | TR MR-MS | 1 | 0 | 0 | 0 | 5.0 | 5 |
| 30 GA041260-Q19 | 0 | TR | 1 | 0 | 10 | 0 | 0 | 0 | 6.5 | 7 |
| 31 GA041271-PL49 | 0 | TR MR | 0 | 0 | 15 | 11 | 0 | 0 | 5.5 | 6 |
| 32 GA041271-Q23 | 0 | TR | 0 | 0 | 49 | 29 | 7 | 2 | 4.5 | 5 |
| 33 GA041271-Q24 | 0 | TR | 1 | 0 | 45 | 36 | 2 | 2 | 5.0 | 5 |
| 34 LA01141D-98-6-3 | 2 | 2.0 | 2 | 0 | 1 | 0 | 15 | 3 | 7.5 | 8 |
| 35 LA02058E63 | 3 | 3.0 | 3 | MS | 2 | 1 | 0 | 0 | 5.5 | 6 |
| 36 LA02058E97 | 0 | 4.0 | 7 | MS | 17 | 1 | 0 | 0 | 5.5 | 6 |
| 37 LA03130E68 | 3 | 4.0 | 1 | 0 | 11 | 0 | 0 | 0 | 4.0 | 4 |
| 38 LA03186E2 | 0 | TR | 2 | 0 | 1 | 1 | 50 | 3 | 3.5 | 4 |
| 39 LA04142C-P5 | 0 | TR | 2 | 0 | 1 | 0 | 2 | 1 | 4.0 | 4 |
| 40 M08*8005# | 0 | TR | 3 | 0 | 2 | 0 | 2 | 1 | 4.0 | 4 |
| 41 MD01W233-07-1 | 0 | 0.0 | 1 | 0 | 6 | 1 | 15 | 2 | 3.5 | 4 |
| 42 MD02W135-08-9 | 3 | 7.0 | 1 | VS | 80 | 75 | 7 | 1 | 2.0 | 2 |
| 43 MD03W61-09-1 | 2 | 3.0 | 1 | S | 8 | 13 | 2 | 1 | 2.5 | 3 |
| 44 MD03W91-09-7 | 2 | 3.0 | 1 | MS | 0 | 0 | 0 | 0 | 6.5 | 7 |
| 45 NC07-21036 | 0 | 2.0 | 2 | MSS | 1 | 0 | 7 | 1 | 5.0 | 5 |
| 46 NC07-23081 | 1-2 | TR | 0 | MSS | 21 | 63 | 2 | 1 | 5.0 | 5 |
| 47 NC07-23126 | 2 | TR | 1 | S | 6 | 5 | 0 | 0 | 5.5 | 6 |
| 48 NC07-23771 | 0 | TR | 1 | S | 16 | 1 | 0 | 0 | 6.0 | 6 |
| 49 NC07-24445 | 0 | TR | 1 | 0 | 1 | 0 | 0 | 0 | 5.0 | 5 |
| 50 VA06W-580 | 2 | TR | 0 | MSS | 0 | 2 | 0 | 0 | 4.5 | 5 |
| 51 VA07W-569 | 2 | 7.0 | 2 | S | 0 | 1 | 30 | 3 | 5.0 | 5 |
| 52 VA08W-622 | 2 | TR | 1 | MSS | 10 | 17 | 2 | 1 | 5.0 | 5 |
| 53 VA08W-630 | 0 | TR MR | 2 | S | 17 | 19 | 30 | 3 | 4.0 | 4 |
| 54 VA08W-653 | 0 | TR | 1 | S | 0 | 0 | 30 | 3 | 6.0 | 6 |
| 55 VA08W-709 | 0 | . | 4-5 | MSS | 5 | 0 | 15 | 2 | 5.0 | 5 |
| 56 VA09W-641 | 1 | TR | 1-2 | S | 37 | 24 | 7 | 1 | 5.5 | 6 |
| 57 VA09W-654 | 2 | 3.0 | 2 | MS | 11 | 0 | 30 | 3 | 2.5 | 2.5 |
| 58 W1104 | 2 | 2 | 3 | 2 | 0 | 0 | 7 | 2 | 3.0 | 3 |
| Mean | | | | | | | | | 4.6 | 5 |
| LSD (0.05) | | | | | | | | | 1.3 | . |
| CV% | | | | | | | | | 15.8 | . |

Hessian Fly Screening (Resistant - Susceptible Plants)¹

| CULTIVAR/ DESIGNATION | Biotype B | Biotype L |
|--------------------------|-----------|-----------|
| 1 ERNIE | 0-15 | 0-14 |
| 2 COKER 9835 | 0-16 | 0-15 |
| 3 BESS | 0-14 | 0-19 |
| 4 JAMESTOWN | 8-0 | 0-12 |
| 5 LA01164D-94-2 | 0-15 | 0-16 |
| 6 03M1539#031 | 19-0 | 15-4 |
| 7 AR 99054-4-1 | 16-1 | 0-14 |
| 8 ARS03-4736 | 11-3 | 11-5 |
| 9 ARS05-1234 | 0-15 | 0-19 |
| 10 LA01141D-98-6-2 | 0-14 | 0-13 |
| 11 03M1539#019 | 14-0 | 14-0 |
| 12 AR99092-4-1 | 0-16 | 0-16 |
| 13 AR99102-4-1 | 0-14 | 0-18 |
| 14 AR99160-1-1-B | 0-15 | 0-17 |
| 15 AR99264-8-1 | 0-13 | 0-12 |
| 16 AR99311-12-1 | 17-0 | 0-14 |
| 17 ARGE97-1042-4-5-20 | 0-16 | 0-16 |
| 18 ARGE97-1047-4-2-9 | 0-19 | 0-18 |
| 19 ARGE97-1048-3-6-7 | 0-13 | 0-16 |
| 20 ARS04-1267 | 0-17 | 0-15 |
| 21 ARS05-0005 | 0-19 | 0-14 |
| 22 ARS05-0043 | 0-18 | 0-17 |
| 23 ARS05-0277 | 0-16 | 0-15 |
| 24 ARS07 0095 | 0-14 | 0-14 |
| 25 ARS07-0203 | 14-3 | 0-17 |
| 26 GA031188-O15 | 0-12 | 0-15 |
| 27 GA031188-O16 | 0-14 | 0-14 |
| 28 GA031188-O17 | 0-15 | 0-15 |
| 29 GA041243-LE36 | 18-0 | 16-0 |
| 30 GA041260-Q19 | 0-17 | 0-19 |
| 31 GA041271-PL49 | 0-18 | 0-16 |
| 32 GA041271-Q23 | 0-19 | 0-19 |
| 33 GA041271-Q24 | 0-17 | 0-17 |
| 34 LA01141D-98-6-3 | 0-16 | 0-17 |
| 35 LA02058E63 | 0-17 | 0-17 |
| 36 LA02058E97 | 0-14 | 0-19 |
| 37 LA03130E68 | 0-14 | 0-18 |
| 38 LA03186E2 | 0-16 | 0-17 |
| 39 LA04142C-P5 | 4-14 | 0-15 |
| 40 M08*8005# | 19-0 | 0-17 |
| 41 MD01W233-07-1 | 0-11 | 0-12 |
| 42 MD02W135-08-9 | 0-12 | 0-14 |
| 43 MD03W61-09-1 | 0-15 | 0-17 |
| 44 MD03W91-09-7 | 0-14 | 0-17 |
| 45 NC07-21036 | 18-0 | 16-0 |
| 46 NC07-23081 | 0-18 | 0-18 |
| 47 NC07-23126 | 0-14 | 0-17 |
| 48 NC07-23771 | 2-14 | 0-18 |
| 49 NC07-24445 | 13-1 | 0-19 |
| 50 VA06W-580 | 0-17 | 0-17 |
| 51 VA07W-569 | 15-2 | 0-16 |
| 52 VA08W-622 | 0-17 | 0-17 |
| 53 VA08W-630 | 0-14 | 0-16 |
| 54 VA08W-653 | 16-0 | 16-0 |
| 55 VA08W-709 | 0-11 | 0-18 |
| 56 VA09W-641 | 0-15 | 0-20 |
| 57 VA09W-654 | 0-18 | 0-15 |
| 58 W1104 | 0-17 | 0-17 |

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

Milling and Baking Quality Scores¹

| Cultivar/ Designation | MILLING | | BAKING | | SOFT. | | TEST WT. LB/BU | FLOUR YIELD % | SOFT. EQUIV. % | GRAIN HARD. (0-100) | GRAIN. PROT. % | FLOUR PROT. % | LACTIC ACID SRC(%) | SUCRE. SRC % | COOK. DIA. CM |
|--------------------------|------------------|---|------------------|---|-----------------|---|----------------------|---------------------|----------------------|---------------------------|----------------------|---------------------|--------------------------|--------------------|---------------------|
| | QUALITY SCORE | | QUALITY SCORE | | EQUIV. SCORE | | | | | | | | | | |
| 1 ERNIE | 56 | D | 51 | D | 60 | C | 57.7 | 66.9 | 57.0 | 14.2 | 12.1 | 9.5 | 103.8 | 97.0 | 17.6 |
| 2 COKER 9835 | 64 | C | 65 | C | 80 | B | 58.3 | 68.7 | 66.4 | 17.9 | 10.2 | 8.1 | 85.0 | 98.2 | 17.9 |
| 3 BESS | 66 | C | 61 | C | 66 | C | 58.5 | 69.2 | 59.8 | 13.3 | 10.1 | 8.2 | 96.8 | 96.3 | 17.7 |
| 4 JAMESTOWN | 62 | C | 52 | D | 64 | C | 60.7 | 68.3 | 58.7 | 23.6 | 11.2 | 8.9 | 107.6 | 98.6 | 17.5 |
| 5 LA01164D-94-2 | 74 | B | 53 | D | 49 | E | 56.8 | 70.9 | 51.9 | 17.4 | 12.9 | 10.4 | 82.5 | 91.7 | 17.6 |
| 6 03M1539#031 | 73 | B | 88 | A | 81 | A | 56.3 | 70.8 | 67.2 | 11.0 | 9.4 | 7.4 | 103.8 | 88.8 | 18.5 |
| 7 AR 99054-4-1 | 67 | C | 55 | D | 57 | D | 58.5 | 69.5 | 55.8 | 14.4 | 11.7 | 9.4 | 81.3 | 95.0 | 17.6 |
| 8 ARS03-4736 | 62 | C | 25 | F | 24 | F | 62.4 | 68.2 | 39.5 | 26.1 | 11.8 | 10.0 | 123.9 | 99.4 | 16.6 |
| 9 ARS05-1234 | 70 | C | 43 | E | 38 | F | 58.7 | 70.0 | 46.3 | 20.1 | 12.0 | 10.4 | 123.3 | 93.4 | 17.2 |
| 10 LA01141D-98-6-2 | 72 | B | 65 | C | 68 | C | 57.7 | 70.7 | 60.6 | 14.9 | 10.1 | 8.0 | 88.3 | 94.9 | 17.8 |
| 11 03M1539#019 | 62 | C | 75 | B | 78 | B | 57.7 | 68.3 | 65.8 | 24.1 | 10.3 | 7.8 | 80.7 | 93.7 | 18.1 |
| 12 AR99092-4-1 | 59 | D | 61 | C | 54 | D | 61.0 | 67.7 | 54.2 | 30.2 | 12.3 | 9.9 | 82.5 | 90.1 | 17.8 |
| 13 AR99102-4-1 | 67 | C | 50 | E | 49 | E | 58.1 | 69.5 | 51.8 | 18.6 | 12.2 | 9.7 | 107.0 | 94.7 | 17.4 |
| 14 AR99160-1-1-B | 79 | B | 68 | C | 43 | E | 59.2 | 72.2 | 48.9 | 19.5 | 11.3 | 9.7 | 82.9 | 84.0 | 17.9 |
| 15 AR99264-8-1 | 69 | C | 70 | B | 68 | C | 58.8 | 69.9 | 60.7 | 19.5 | 10.3 | 8.6 | 108.5 | 91.5 | 18.0 |
| 16 AR99311-12-1 | 63 | C | 55 | D | 64 | C | 59.4 | 68.6 | 58.7 | 22.5 | 12.2 | 9.7 | 100.3 | 95.7 | 17.7 |
| 17 ARGE97-1042-4-5-20 | 59 | D | 35 | F | 23 | F | 58.2 | 67.5 | 39.2 | 24.2 | 12.6 | 11.7 | 92.9 | 91.0 | 17.0 |
| 18 ARGE97-1047-4-2-9 | 63 | C | 52 | D | 19 | F | 59.4 | 68.4 | 37.1 | 23.1 | 11.6 | 10.1 | 90.4 | 84.9 | 17.3 |
| 19 ARGE97-1048-3-6-7 | 52 | D | 38 | F | 44 | E | 59.8 | 66.0 | 49.5 | 25.2 | 12.6 | 10.3 | 81.9 | 97.6 | 17.2 |
| 20 ARS04-1267 | 62 | C | 25 | F | 15 | F | 61.9 | 68.2 | 35.3 | 26.6 | 12.5 | 11.7 | 113.0 | 93.8 | 16.7 |
| 21 ARS05-0005 | 57 | D | 44 | E | 30 | F | 59.5 | 67.1 | 42.5 | 18.2 | 11.4 | 9.0 | 123.1 | 93.4 | 17.1 |
| 22 ARS05-0043 | 57 | D | 43 | E | 31 | F | 57.5 | 67.0 | 43.1 | 25.1 | 11.9 | 9.6 | 107.2 | 93.1 | 17.1 |
| 23 ARS05-0277 | 64 | C | 62 | C | 54 | D | 57.6 | 68.8 | 53.9 | 20.9 | 10.3 | 8.0 | 89.0 | 92.8 | 17.6 |
| 24 ARS07 0095 | 66 | C | 64 | C | 62 | C | 58.8 | 69.2 | 57.9 | 18.4 | 11.1 | 8.8 | 87.9 | 92.7 | 17.8 |
| 25 ARS07-0203 | 76 | B | 65 | C | 60 | C | 58.8 | 71.6 | 57.1 | 22.2 | 12.5 | 10.1 | 99.7 | 89.6 | 18.0 |
| 26 GA031188-O15 | 76 | B | 72 | B | 57 | D | 60.5 | 71.5 | 55.4 | 25.0 | 11.0 | 9.0 | 102.3 | 87.1 | 18.0 |
| 27 GA031188-O16 | 72 | B | 64 | C | 55 | D | 60.3 | 70.6 | 54.7 | 23.3 | 11.4 | 9.0 | 103.6 | 90.5 | 17.8 |
| 28 GA031188-O17 | 73 | B | 69 | C | 56 | D | 59.6 | 70.9 | 55.2 | 24.2 | 11.6 | 9.2 | 107.9 | 87.8 | 18.0 |
| 29 GA041243-LE36 | 56 | D | 58 | D | 55 | D | 60.7 | 66.9 | 54.6 | 22.7 | 11.2 | 9.3 | 104.1 | 92.6 | 17.7 |
| 30 GA041260-Q19 | 70 | B | 63 | C | 63 | C | 58.8 | 70.2 | 58.6 | 20.6 | 11.9 | 9.6 | 111.1 | 91.9 | 17.9 |
| 31 GA041271-PL49 | 66 | C | 46 | E | 65 | C | 58.1 | 69.2 | 59.3 | 27.1 | 13.2 | 10.5 | 123.7 | 98.9 | 17.6 |
| 32 GA041271-Q23 | 65 | C | 44 | E | 57 | D | 60.0 | 68.9 | 55.4 | 23.5 | 12.7 | 10.3 | 120.8 | 98.1 | 17.4 |
| 33 GA041271-Q24 | 67 | C | 50 | E | 55 | D | 59.7 | 69.5 | 54.4 | 18.7 | 12.7 | 10.3 | 123.4 | 94.7 | 17.6 |
| 34 LA01141D-98-6-3 | 71 | B | 56 | D | 59 | D | 59.6 | 70.4 | 56.4 | 12.8 | 11.4 | 9.5 | 110.2 | 94.4 | 17.7 |
| 35 LA02058E63 | 67 | C | 34 | F | 44 | E | 60.5 | 69.4 | 49.5 | 31.3 | 13.1 | 11.0 | 102.5 | 98.2 | 17.1 |
| 36 LA02058E97 | 69 | C | 38 | F | 49 | E | 60.4 | 69.9 | 51.8 | 27.6 | 13.1 | 10.8 | 115.6 | 98.2 | 17.2 |
| 37 LA03130E68 | 69 | C | 58 | D | 51 | D | 60.5 | 69.9 | 52.5 | 17.1 | 12.4 | 9.8 | 107.9 | 90.7 | 17.7 |
| 38 LA03186E2 | 66 | C | 54 | D | 50 | E | 60.0 | 69.2 | 52.0 | 19.6 | 11.6 | 9.6 | 109.6 | 92.7 | 17.5 |
| 39 LA04142C-P5 | 62 | C | 51 | D | 54 | D | 58.7 | 68.2 | 54.0 | 22.4 | 11.8 | 9.4 | 90.9 | 95.7 | 17.5 |
| 40 M08*8005# | 69 | C | 77 | B | 65 | C | 59.0 | 69.9 | 59.6 | 17.8 | 11.3 | 9.1 | 102.4 | 86.6 | 18.2 |
| 41 MD01W233-07-1 | 65 | C | 60 | C | 61 | C | 59.6 | 69.0 | 57.3 | 23.8 | 12.4 | 10.0 | 100.2 | 91.9 | 17.8 |
| 42 MD02W135-08-9 | 51 | D | 49 | E | 73 | B | 59.1 | 65.8 | 63.2 | 25.2 | 10.9 | 8.5 | 96.0 | 103.4 | 17.5 |
| 43 MD03W61-09-1 | 55 | D | 47 | E | 55 | D | 60.4 | 66.6 | 54.6 | 27.7 | 13.1 | 10.6 | 98.7 | 95.7 | 17.5 |
| 44 MD03W91-09-7 | 54 | D | 46 | E | 46 | E | 60.1 | 66.5 | 50.1 | 22.5 | 12.8 | 10.2 | 100.6 | 94.8 | 17.3 |
| 45 NC07-21036 | 63 | C | 56 | D | 62 | C | 61.0 | 68.6 | 58.1 | 17.9 | 10.5 | 8.5 | 103.0 | 97.1 | 17.6 |
| 46 NC07-23081 | 53 | D | 41 | E | 46 | E | 58.9 | 66.1 | 50.5 | 32.4 | 11.2 | 8.7 | 91.0 | 99.7 | 17.1 |
| 47 NC07-23126 | 58 | D | 49 | E | 56 | D | 60.7 | 67.3 | 55.1 | 23.5 | 11.2 | 8.8 | 111.9 | 98.2 | 17.4 |
| 48 NC07-23771 | 63 | C | 59 | D | 53 | D | 59.9 | 68.5 | 53.8 | 24.6 | 12.1 | 10.1 | 104.6 | 90.5 | 17.7 |
| 49 NC07-24445 | 62 | C | 59 | D | 56 | D | 58.8 | 68.2 | 55.1 | 19.7 | 11.3 | 9.1 | 112.1 | 93.2 | 17.7 |
| 50 VA06W-580 | 66 | C | 61 | C | 59 | D | 60.3 | 69.2 | 56.7 | 22.9 | 10.7 | 8.8 | 84.3 | 93.5 | 17.7 |
| 51 VA07W-569 | 57 | D | 51 | D | 59 | D | 61.0 | 67.2 | 56.6 | 29.2 | 10.4 | 8.4 | 97.2 | 98.9 | 17.4 |
| 52 VA08W-622 | 70 | C | 68 | C | 58 | D | 61.0 | 70.0 | 55.9 | 23.3 | 10.9 | 9.0 | 87.6 | 89.3 | 17.9 |
| 53 VA08W-630 | 64 | C | 62 | C | 68 | C | 60.0 | 68.7 | 60.9 | 20.9 | 11.3 | 9.2 | 108.2 | 94.4 | 17.9 |
| 54 VA08W-653 | 55 | D | 59 | D | 69 | C | 58.6 | 66.7 | 61.3 | 19.8 | 12.0 | 9.3 | 109.0 | 96.1 | 17.8 |
| 55 VA08W-709 | 62 | C | 79 | B | 72 | B | 60.4 | 68.3 | 62.5 | 19.6 | 10.5 | 8.2 | 94.7 | 89.1 | 18.2 |
| 56 VA09W-641 | 61 | C | 54 | D | 60 | D | 59.2 | 67.9 | 56.9 | 23.9 | 11.4 | 9.0 | 112.1 | 96.3 | 17.6 |
| 57 VA09W-654 | 66 | C | 51 | D | 65 | C | 57.6 | 69.2 | 59.3 | 19.5 | 11.7 | 9.3 | 105.1 | 98.8 | 17.6 |
| 58 W1104 | 59 | D | 84 | A | 65 | C | 56.4 | 67.7 | 59.2 | 21.0 | 9.7 | 7.6 | 71.9 | 86.0 | 18.2 |
| Mean | 64 | | 56 | | 55 | | 59.3 | 68.8 | 54.6 | 21.8 | 11.6 | 9.4 | 101.2 | 93.7 | 17.6 |

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

Means Across Locations 2009-10

| Cultivar/ Designation | FHB Incidence | | FHB Severity | | FHB Index | | FDK | | ISK | | G'hse Severity | | DON | |
|--------------------------|---------------|----|--------------|----|-----------|----|------|----|------|----|----------------|----|------|----|
| | RANK | | RANK | | RANK | | RANK | | RANK | | RANK | | RANK | |
| | | | | | | | | | | | | | | |
| 1 ERNIE | 39 | 1 | 20 | 4 | 9 | 1 | 18 | 12 | 25 | 3 | 16 | 14 | 9 | 11 |
| 2 COKER 9835 | 63 | 51 | 57 | 53 | 39 | 53 | 40 | 48 | 55 | 49 | 68 | 54 | 19 | 47 |
| 3 BESS | 43 | 3 | 23 | 8 | 12 | 3 | 8 | 1 | 22 | 1 | 7 | 1 | 10 | 16 |
| 4 JAMESTOWN | 47 | 6 | 22 | 5 | 13 | 4 | 14 | 5 | 28 | 9 | 18 | 19 | 8 | 5 |
| 5 LA01164D-94-2 | 54 | 31 | 34 | 37 | 23 | 34 | 28 | 33 | 37 | 27 | 23 | 29 | 11 | 21 |
| 6 03M1539#031 | 57 | 39 | 31 | 26 | 24 | 38 | 13 | 4 | 31 | 13 | 32 | 37 | 17 | 44 |
| 7 AR 99054-4-1 | 52 | 22 | 33 | 34 | 21 | 30 | 24 | 25 | 40 | 37 | 33 | 40 | 22 | 53 |
| 8 ARS03-4736 | 55 | 32 | 32 | 31 | 20 | 29 | 24 | 25 | 35 | 21 | 18 | 18 | 18 | 46 |
| 9 ARS05-1234 | 49 | 9 | 37 | 40 | 24 | 38 | 30 | 38 | 38 | 31 | 17 | 15 | 30 | 57 |
| 10 LA01141D-98-6-2 | 61 | 48 | 40 | 43 | 30 | 44 | 42 | 49 | 52 | 46 | 21 | 26 | 15 | 41 |
| 11 03M1539#019 | 53 | 29 | 32 | 31 | 19 | 23 | 24 | 25 | 37 | 27 | 23 | 30 | 12 | 28 |
| 12 AR99092-4-1 | 51 | 17 | 27 | 13 | 15 | 9 | 23 | 23 | 32 | 14 | 14 | 10 | 15 | 41 |
| 13 AR99102-4-1 | 53 | 29 | 40 | 43 | 27 | 42 | 34 | 44 | 47 | 43 | 47 | 47 | 13 | 34 |
| 14 AR99160-1-1-B | 47 | 6 | 28 | 17 | 14 | 6 | 15 | 8 | 28 | 9 | 10 | 5 | 29 | 56 |
| 15 AR99264-8-1 | 56 | 35 | 31 | 26 | 21 | 30 | 15 | 8 | 34 | 17 | 18 | 20 | 14 | 38 |
| 16 AR99311-12-1 | 58 | 42 | 33 | 34 | 23 | 34 | 24 | 25 | 39 | 34 | 20 | 25 | 8 | 5 |
| 17 ARGE97-1042-4-5-20 | 39 | 1 | 17 | 1 | 10 | 2 | 22 | 18 | 25 | 3 | 15 | 11 | 8 | 5 |
| 18 ARGE97-1047-4-2-9 | 45 | 4 | 17 | 1 | 13 | 4 | 14 | 5 | 23 | 2 | 9 | 3 | 7 | 2 |
| 19 ARGE97-1048-3-6-7 | 52 | 22 | 26 | 11 | 16 | 16 | 22 | 18 | 34 | 17 | 23 | 31 | 6 | 1 |
| 20 ARS04-1267 | 49 | 9 | 30 | 22 | 15 | 9 | 17 | 11 | 27 | 6 | 14 | 7 | 14 | 38 |
| 21 ARS05-0005 | 58 | 42 | 48 | 48 | 34 | 49 | 38 | 46 | 52 | 46 | 48 | 48 | 11 | 21 |
| 22 ARS05-0043 | 50 | 13 | 27 | 13 | 19 | 23 | 33 | 43 | 39 | 34 | 18 | 21 | 11 | 21 |
| 23 ARS05-0277 | 64 | 53 | 51 | 49 | 38 | 52 | 28 | 33 | 48 | 44 | 62 | 53 | 17 | 44 |
| 24 ARS07 0095 | 62 | 50 | 45 | 47 | 29 | 43 | 30 | 38 | 46 | 42 | 35 | 41 | 20 | 50 |
| 25 ARS07-0203 | 59 | 45 | 53 | 50 | 35 | 51 | 38 | 46 | 55 | 49 | 40 | 44 | 12 | 28 |
| 26 GA031188-O15 | 69 | 58 | 64 | 55 | 45 | 57 | 58 | 57 | 68 | 57 | 88 | 58 | 21 | 51 |
| 27 GA031188-O16 | 65 | 55 | 64 | 55 | 43 | 54 | 47 | 52 | 63 | 55 | 68 | 55 | 19 | 47 |
| 28 GA031188-O17 | 65 | 55 | 66 | 58 | 44 | 56 | 51 | 53 | 63 | 55 | 77 | 56 | 19 | 47 |
| 29 GA041243-LE36 | 64 | 53 | 35 | 39 | 25 | 40 | 42 | 49 | 49 | 45 | 50 | 49 | 12 | 28 |
| 30 GA041260-Q19 | 59 | 45 | 56 | 52 | 31 | 47 | 53 | 55 | 58 | 52 | 59 | 52 | 21 | 51 |
| 31 GA041271-PL49 | 61 | 48 | 56 | 51 | 34 | 49 | 59 | 58 | 59 | 53 | 39 | 43 | 43 | 58 |
| 32 GA041271-Q23 | 63 | 51 | 65 | 57 | 47 | 58 | 56 | 56 | 69 | 58 | 78 | 57 | 28 | 55 |
| 33 GA041271-Q24 | 67 | 57 | 61 | 54 | 43 | 54 | 52 | 54 | 61 | 54 | 57 | 51 | 23 | 54 |
| 34 LA01141D-98-6-3 | 59 | 45 | 38 | 41 | 30 | 44 | 46 | 51 | 56 | 51 | 39 | 42 | 13 | 34 |
| 35 LA02058E63 | 49 | 9 | 34 | 37 | 18 | 18 | 30 | 38 | 38 | 31 | 23 | 28 | 11 | 21 |
| 36 LA02058E97 | 58 | 42 | 40 | 43 | 25 | 40 | 32 | 41 | 44 | 39 | 31 | 36 | 13 | 34 |
| 37 LA03130E68 | 51 | 17 | 22 | 5 | 15 | 9 | 24 | 25 | 36 | 23 | 14 | 9 | 13 | 34 |
| 38 LA03186E2 | 56 | 35 | 39 | 42 | 30 | 44 | 36 | 45 | 52 | 46 | 19 | 24 | 12 | 28 |
| 39 LA04142C-P5 | 57 | 39 | 31 | 26 | 23 | 34 | 29 | 36 | 44 | 39 | 44 | 46 | 12 | 28 |
| 40 M08*8005# | 52 | 22 | 28 | 17 | 15 | 9 | 12 | 3 | 27 | 6 | 31 | 35 | 8 | 5 |
| 41 MD01W233-07-1 | 55 | 32 | 32 | 31 | 23 | 34 | 25 | 30 | 40 | 37 | 25 | 33 | 9 | 11 |
| 42 MD02W135-08-9 | 52 | 22 | 31 | 26 | 18 | 18 | 19 | 16 | 34 | 17 | 27 | 34 | 9 | 11 |
| 43 MD03W61-09-1 | 50 | 13 | 19 | 3 | 14 | 6 | 16 | 10 | 30 | 11 | 14 | 8 | 10 | 16 |
| 44 MD03W91-09-7 | 45 | 4 | 22 | 5 | 15 | 9 | 11 | 2 | 25 | 3 | 9 | 2 | 8 | 5 |
| 45 NC07-21036 | 51 | 17 | 30 | 22 | 19 | 23 | 22 | 18 | 37 | 27 | 17 | 17 | 10 | 16 |
| 46 NC07-23081 | 50 | 13 | 24 | 10 | 18 | 18 | 22 | 18 | 34 | 17 | 19 | 22 | 10 | 16 |
| 47 NC07-23126 | 50 | 13 | 28 | 17 | 15 | 9 | 23 | 23 | 35 | 21 | 41 | 45 | 11 | 21 |
| 48 NC07-23771 | 51 | 17 | 33 | 34 | 19 | 23 | 32 | 41 | 38 | 31 | 25 | 32 | 11 | 21 |
| 49 NC07-24445 | 55 | 32 | 41 | 46 | 31 | 47 | 26 | 32 | 44 | 39 | 52 | 50 | 10 | 16 |
| 50 VA06W-580 | 51 | 17 | 26 | 11 | 16 | 16 | 14 | 5 | 27 | 6 | 33 | 39 | 9 | 11 |
| 51 VA07W-569 | 52 | 22 | 30 | 22 | 18 | 18 | 25 | 30 | 37 | 27 | 19 | 23 | 11 | 21 |
| 52 VA08W-622 | 56 | 35 | 27 | 13 | 18 | 18 | 18 | 12 | 33 | 15 | 32 | 38 | 8 | 5 |
| 53 VA08W-630 | 57 | 39 | 31 | 26 | 22 | 33 | 28 | 33 | 39 | 34 | 10 | 4 | 12 | 28 |
| 54 VA08W-653 | 56 | 35 | 28 | 17 | 21 | 30 | 22 | 18 | 36 | 23 | 16 | 13 | 14 | 38 |
| 55 VA08W-709 | 48 | 8 | 27 | 13 | 15 | 9 | 18 | 12 | 30 | 11 | 15 | 12 | 9 | 11 |
| 56 VA09W-641 | 52 | 22 | 23 | 8 | 14 | 6 | 21 | 17 | 33 | 15 | 13 | 6 | 7 | 2 |
| 57 VA09W-654 | 52 | 22 | 28 | 17 | 19 | 23 | 18 | 12 | 36 | 23 | 21 | 27 | 7 | 2 |
| 58 W1104 | 49 | 9 | 30 | 22 | 19 | 23 | 29 | 36 | 36 | 23 | 17 | 16 | 16 | 43 |

| | | | | | | | |
|------------|------|------|------|------|------|------|------|
| Mean | 54 | 35 | 23 | 28 | 41 | 31 | 14 |
| LSD (0.05) | 23.9 | 24 | 22 | 25 | 19 | 29 | 13 |
| CV% | 22.4 | 35.4 | 48.6 | 45.5 | 23.7 | 43.2 | 48.7 |

Means Across Locations 2009 - 2010

| Cultivar/ Designation | Heading | | Plant | | Spindle Streak | Hessian Fly Biotype L | MILLING QUALITY SCORE | BAKING QUALITY SCORE | SOFT. EQUIV. SCORE | Stripe Rust (0-9) | Stripe Rust (0-9) | Stem Rust % |
|--------------------------|---------|------|--------|------|-------------------|-----------------------------|-----------------------------|----------------------------|--------------------------|-------------------------|-------------------------|-------------------|
| | Date | RANK | Height | RANK | | | | | | FV'VILLE (1) AR | FV'VILLE (2) AR | FV'VILLE AR |
| 1 ERNIE | 127 | 6 | 33 | 20 | 4.0 | 0-14 | 56 D | 51 D | 60 C | 63 | 15 | 2 |
| 2 COKER 9835 | 130 | 41 | 32 | 13 | 5.0 | 0-15 | 64 C | 65 C | 80 B | 54 | 63 | 0 |
| 3 BESS | 129 | 28 | 35 | 33 | 4.5 | 0-19 | 66 C | 61 C | 66 C | 1 | 0 | 2 |
| 4 JAMESTOWN | 125 | 2 | 31 | 9 | 4.5 | 0-12 | 62 C | 52 D | 64 C | 0 | 0 | 2 |
| 5 LA01164D-94-2 | 129 | 28 | 37 | 50 | 5.5 | 0-16 | 74 B | 53 D | 49 E | 23 | 43 | 0 |
| 6 03M1539#031 | 128 | 11 | 36 | 43 | 5.5 | 15-4 | 73 B | 88 A | 81 A | 7 | 6 | 70 |
| 7 AR 99054-4-1 | 131 | 49 | 39 | 55 | 2.5 | 0-14 | 67 C | 55 D | 57 D | 1 | 0 | 15 |
| 8 ARS03-4736 | 128 | 11 | 36 | 45 | 2.0 | 11-5 | 62 C | 25 F | 24 F | 1 | 1 | 7 |
| 9 ARS05-1234 | 132 | 57 | 36 | 41 | 2.0 | 0-19 | 70 C | 43 E | 38 F | 3 | 57 | 0 |
| 10 LA01141D-98-6-2 | 129 | 28 | 32 | 11 | 7.5 | 0-13 | 72 B | 65 C | 68 C | 2 | 0 | 30 |
| 11 03M1539#019 | 129 | 28 | 36 | 46 | 6.5 | 14-0 | 62 C | 75 B | 78 B | 10 | 68 | 2 |
| 12 AR99092-4-1 | 130 | 41 | 42 | 58 | 5.0 | 0-16 | 59 D | 61 C | 54 D | 0 | 2 | 2 |
| 13 AR99102-4-1 | 130 | 41 | 36 | 44 | 3.5 | 0-18 | 67 C | 50 E | 49 E | 1 | 5 | 0 |
| 14 AR99160-1-1-B | 131 | 49 | 42 | 57 | 6.0 | 0-17 | 79 B | 68 C | 43 E | 0 | 0 | 2 |
| 15 AR99264-8-1 | 130 | 41 | 42 | 56 | 4.5 | 0-12 | 69 C | 70 B | 68 C | 0 | 0 | 30 |
| 16 AR99311-12-1 | 128 | 11 | 32 | 10 | 4.5 | 0-14 | 63 C | 55 D | 64 C | 0 | 0 | 2 |
| 17 ARGE97-1042-4-5-20 | 128 | 11 | 35 | 34 | 7.5 | 0-16 | 59 D | 35 F | 23 F | 0 | 0 | 2 |
| 18 ARGE97-1047-4-2-9 | 126 | 3 | 38 | 51 | 6.0 | 0-18 | 63 C | 52 D | 19 F | 1 | 0 | 0 |
| 19 ARGE97-1048-3-6-7 | 127 | 6 | 38 | 53 | 6.5 | 0-16 | 52 D | 38 F | 44 E | 3 | 1 | 7 |
| 20 ARS04-1267 | 128 | 11 | 33 | 23 | 2.0 | 0-15 | 62 C | 25 F | 15 F | 0 | 0 | 2 |
| 21 ARS05-0005 | 129 | 28 | 34 | 28 | 4.5 | 0-14 | 57 D | 44 E | 30 F | 1 | 0 | 2 |
| 22 ARS05-0043 | 128 | 11 | 34 | 27 | 4.0 | 0-17 | 57 D | 43 E | 31 F | 0 | 0 | 7 |
| 23 ARS05-0277 | 129 | 28 | 32 | 12 | 4.5 | 0-15 | 64 C | 62 C | 54 D | 1 | 0 | 0 |
| 24 ARS07 0095 | 131 | 49 | 34 | 29 | 3.0 | 0-14 | 66 C | 64 C | 62 C | 1 | 0 | 2 |
| 25 ARS07-0203 | 131 | 49 | 33 | 16 | 4.5 | 0-17 | 76 B | 65 C | 60 C | 0 | 0 | 2 |
| 26 GA031188-O15 | 128 | 11 | 36 | 49 | 2.5 | 0-15 | 76 B | 72 B | 57 D | 1 | 0 | 0 |
| 27 GA031188-O16 | 128 | 11 | 34 | 31 | 3.0 | 0-14 | 72 B | 64 C | 55 D | 1 | 0 | 0 |
| 28 GA031188-O17 | 129 | 28 | 34 | 24 | 3.0 | 0-15 | 73 B | 69 C | 56 D | 1 | 0 | 0 |
| 29 GA041243-LE36 | 128 | 11 | 36 | 40 | 5.0 | 16-0 | 56 D | 58 D | 55 D | 1 | 0 | 0 |
| 30 GA041260-Q19 | 129 | 28 | 33 | 17 | 6.5 | 0-19 | 70 B | 63 C | 63 C | 10 | 0 | 0 |
| 31 GA041271-PL49 | 136 | 58 | 38 | 52 | 5.5 | 0-16 | 66 C | 46 E | 65 C | 15 | 11 | 0 |
| 32 GA041271-Q23 | 131 | 49 | 36 | 48 | 4.5 | 0-19 | 65 C | 44 E | 57 D | 49 | 29 | 7 |
| 33 GA041271-Q24 | 131 | 49 | 36 | 47 | 5.0 | 0-17 | 67 C | 50 E | 55 D | 45 | 36 | 2 |
| 34 LA01141D-98-6-3 | 128 | 11 | 33 | 22 | 7.5 | 0-17 | 71 B | 56 D | 59 D | 1 | 0 | 15 |
| 35 LA02058E63 | 127 | 6 | 33 | 19 | 5.5 | 0-17 | 67 C | 34 F | 44 E | 2 | 1 | 0 |
| 36 LA02058E97 | 128 | 11 | 35 | 38 | 5.5 | 0-19 | 69 C | 38 F | 49 E | 17 | 1 | 0 |
| 37 LA03130E68 | 124 | 1 | 35 | 36 | 4.0 | 0-18 | 69 C | 58 D | 51 D | 11 | 0 | 0 |
| 38 LA03186E2 | 130 | 41 | 38 | 54 | 3.5 | 0-17 | 66 C | 54 D | 50 E | 1 | 1 | 50 |
| 39 LA04142C-P5 | 128 | 11 | 36 | 42 | 4.0 | 0-15 | 62 C | 51 D | 54 D | 1 | 0 | 2 |
| 40 M08*8005# | 126 | 3 | 34 | 30 | 4.0 | 0-17 | 69 C | 77 B | 65 C | 2 | 0 | 2 |
| 41 MD01W233-07-1 | 131 | 49 | 31 | 8 | 3.5 | 0-12 | 65 C | 60 C | 61 C | 6 | 1 | 15 |
| 42 MD02W135-08-9 | 129 | 28 | 30 | 4 | 2.0 | 0-14 | 51 D | 49 E | 73 B | 80 | 75 | 7 |
| 43 MD03W61-09-1 | 128 | 11 | 34 | 26 | 2.5 | 0-17 | 55 D | 47 E | 55 D | 8 | 13 | 2 |
| 44 MD03W91-09-7 | 127 | 6 | 35 | 37 | 6.5 | 0-17 | 54 D | 46 E | 46 E | 0 | 0 | 0 |
| 45 NC07-21036 | 130 | 41 | 30 | 5 | 5.0 | 16-0 | 63 C | 56 D | 62 C | 1 | 0 | 7 |
| 46 NC07-23081 | 128 | 11 | 33 | 18 | 5.0 | 0-18 | 53 D | 41 E | 46 E | 21 | 63 | 2 |
| 47 NC07-23126 | 129 | 28 | 32 | 15 | 5.5 | 0-17 | 58 D | 49 E | 56 D | 6 | 5 | 0 |
| 48 NC07-23771 | 129 | 28 | 32 | 14 | 6.0 | 0-18 | 63 C | 59 D | 53 D | 16 | 1 | 0 |
| 49 NC07-24445 | 127 | 6 | 31 | 7 | 5.0 | 0-19 | 62 C | 59 D | 56 D | 1 | 0 | 0 |
| 50 VA06W-580 | 128 | 11 | 28 | 2 | 4.5 | 0-17 | 66 C | 61 C | 59 D | 0 | 2 | 0 |
| 51 VA07W-569 | 129 | 28 | 36 | 39 | 5.0 | 0-16 | 57 D | 51 D | 59 D | 0 | 1 | 30 |
| 52 VA08W-622 | 128 | 11 | 34 | 32 | 5.0 | 0-17 | 70 C | 68 C | 58 D | 10 | 17 | 2 |
| 53 VA08W-630 | 129 | 28 | 29 | 3 | 4.0 | 0-16 | 64 C | 62 C | 68 C | 17 | 19 | 30 |
| 54 VA08W-653 | 130 | 41 | 27 | 1 | 6.0 | 16-0 | 55 D | 59 D | 69 C | 0 | 0 | 30 |
| 55 VA08W-709 | 128 | 11 | 34 | 25 | 5.0 | 0-18 | 62 C | 79 B | 72 B | 5 | 0 | 15 |
| 56 VA09W-641 | 126 | 3 | 33 | 21 | 5.5 | 0-20 | 61 C | 54 D | 60 D | 37 | 24 | 7 |
| 57 VA09W-654 | 131 | 49 | 35 | 35 | 2.5 | 0-15 | 66 C | 51 D | 65 C | 11 | 0 | 30 |
| 58 W1104 | 130 | 41 | 31 | 6 | 3 | 0-17 | 59 D | 84 A | 65 C | 0 | 0 | 7 |

| | | | | | | | | | | | |
|------------|-----|-----|---|---|---|----|----|----|---|---|----|
| Mean | 129 | 34 | . | . | . | 64 | 56 | 55 | . | . | 54 |
| LSD (0.05) | 3 | 5 | . | . | . | . | . | . | . | . | 13 |
| CV% | 1.1 | 7.2 | . | . | . | . | . | . | . | . | 12 |

Means Across 2009 and 2010

| | Cultivar/ Designation | FHB Incidence | | FHB Severity | | FHB Index | | FDK | | ISK | | DON | | Heading Date | Plant Height | Fhb1 3BS |
|----|--------------------------|------------------|------|-----------------|------|--------------|------|-----|------|-----|------|-----|------|-----------------|-----------------|-------------|
| | | | RANK | | RANK | | RANK | | RANK | | RANK | | RANK | | | |
| 1 | ERNIE | 42 | 2 | 21 | 1 | 13 | 2 | 17 | 2 | 32 | 3 | 12 | 4 | 128 | 34 | no |
| 2 | COKER 9835 | 64 | 10 | 56 | 10 | 45 | 10 | 42 | 9 | 60 | 10 | 18 | 7 | 132 | 33 | no |
| 3 | BESS | 41 | 1 | 21 | 1 | 12 | 1 | 11 | 1 | 25 | 1 | 10 | 2 | 130 | 36 | no |
| 4 | JAMESTOWN | 46 | 3 | 24 | 3 | 17 | 3 | 18 | 3 | 29 | 2 | 8 | 1 | 127 | 32 | no |
| 5 | LA01164D-94-2 | 51 | 6 | 31 | 4 | 23 | 5 | 24 | 5 | 41 | 6 | 10 | 2 | 131 | 37 | yes |
| 6 | 03M1539#031 | 51 | 6 | 32 | 5 | 24 | 6 | 19 | 4 | 32 | 3 | 15 | 5 | 129 | 36 | no |
| 7 | AR99054-4-1 | 46 | 3 | 33 | 6 | 20 | 4 | 24 | 5 | 36 | 5 | 19 | 9 | 132 | 40 | no |
| 8 | ARS03-4736 | 56 | 8 | 34 | 7 | 24 | 6 | 30 | 7 | 43 | 7 | 18 | 7 | 130 | 37 | no |
| 9 | ARS05-1234 | 49 | 5 | 39 | 8 | 30 | 8 | 33 | 8 | 48 | 8 | 27 | 10 | 133 | 38 | no |
| 10 | LA01141D-98-6-2 | 63 | 9 | 45 | 9 | 37 | 9 | 43 | 10 | 59 | 9 | 15 | 5 | 131 | 33 | no |
| | Mean | 51 | | 34 | | 24 | | 27 | | 41 | | 15 | | 130 | 35 | |
| | LSD (0.05) | 10 | | 8 | | 9 | | 10 | | 13 | | 6 | | 1 | 2 | |
| | CV% | 11 | | 13 | | 9 | | 17 | | 14 | | 17 | | 0.4 | 3 | |

Means Across 2008, 2009 and 2010

| | Cultivar/ Designation | FHB Incidence | | FHB Severity | | FHB Index | | FDK | | ISK | | DON | | Heading Date | Plant Height | Fhb1 3BS |
|---|--------------------------|------------------|------|-----------------|------|--------------|------|-----|------|-----|------|-----|------|-----------------|-----------------|-------------|
| | | | RANK | | RANK | | RANK | | RANK | | RANK | | RANK | | | |
| 1 | ERNIE | 41 | 1 | 23 | 2 | 13 | 1 | 12 | 1 | 25 | 1 | 9 | 2 | 127 | 36 | no |
| 2 | COKER 9835 | 68 | 5 | 61 | 5 | 48 | 5 | 47 | 5 | 61 | 5 | 17 | 5 | 128 | 32 | no |
| 3 | BESS | 45 | 2 | 22 | 1 | 14 | 2 | 17 | 2 | 30 | 2 | 10 | 3 | 124 | 33 | no |
| 4 | JAMESTOWN | 52 | 4 | 26 | 3 | 18 | 3 | 18 | 3 | 31 | 3 | 7 | 1 | 123 | 32 | no |
| 5 | LA01164D-94-2 | 51 | 3 | 31 | 4 | 24 | 4 | 25 | 4 | 37 | 4 | 10 | 3 | 127 | 37 | no |
| | Mean | 51 | | 33 | | 23 | | 24 | | 37 | | 10 | | 125 | 34 | |
| | LSD (0.05) | 10 | | 7 | | 6 | | 9 | | 8 | | 3 | | 1 | 1 | |
| | CV% | 10 | | 12 | | 13 | | 20 | | 12 | | 16 | | 0.6 | 2.3 | |