

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service

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2000 - 2001

**UNIFORM SOUTHERN SOFT RED WINTER WHEAT
NURSERY**

Report

Compiled by: H.E. Bockelman, Agronomist

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

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

USDA-ARS
National Small Grains Germplasm Research Facility
1691 S. 2700 W.
Aberdeen, ID 83210
November, 2001

Table of Contents

List of Entries and Pedigrees	3
Location Notes	4-10
Yield	11-14
Test Weight	15-18
Kernel Weight	19
Heading Date	20-23
Height	24-27
Lodging	28-31
Winter Kill	32
Leaf Rust	33-35
Stem Rust	36
Stripe Rust	37
Septoria	38-39
Leaf Blotch	40
Powdery Mildew	41-46
BYDV	47
SBMV	48
Spindle Streak	49
Hessian Fly	50-51
Stand Establishment	52
Spring Phenotype	53
Maturity	54
Acid Soil Tolerance	55
1RS Status	56
Milling and Baking Quality	57-65

2000-2001 UNIFORM SOUTHERN SOFT RED WINTER WHEAT NURSERY

LIST OF ENTRIES AND PEDIGREES

Entry No.	Cultivar/ Designation	Pedigree	Contributor	1st Year in Nurs
1	Coker 9835	Coker 85-20/Pioneer 2550	Check	91-92
2	Coker 9663	IN71761A4-31-5-48/FL 302	Check	97-98
3	Mason	Cardinal//MN74143/Oligoculm/3/Coker 9323	Check	97-98
4	AGS2000	Pio.2555/PF84301//FL 302 (formerly GA89482E7)	Check	97-98
5	S9412192	FL7925-G47-J10/FL8062-E4-H7-J1	Graham	98-99
6	LA90518PB43-3-1-4	GA8665-D4/FL85238-C3-AB3	Harrison	99-00
7	LA90185G3-1-3-4-2	FL85363-G21-6/C9835	Harrison	99-00
8	VA98W-593	IN71761A4-31-5-48//VA7154-147/McNair1813/AL870365(C747*2/Amigo)	Griffey	99-00
9	NC96-13155	C8629//Stella/CHD45680/3/C8622	Murphy	99-00
10	NC96-13965	C8629//Stella/CHD45680/3/C8622	Murphy	99-00
11	B950943	C86-27//FL302/Rosen	Hancock	99-00
12	TX96D1320	C87-13WH/RL6048//Siete Cerros/Niki	Marshall	99-00
13	TX97D6737	TX85-264/AL870573	Marshall	99-00
14	TX91-57	Gore/FL85377G3-26	Nelson	99-00
15	AR839-27-1-3	Terral 101/Pioneer 2580	Bacon	00-01
16	AR839-25-8-2	Terral 101/Pioneer 2580	Bacon	00-01
17	AR-LA85411	FR81-19/Saluda	Bacon/Harrison	00-01
18	LA9397D5-3-3	FFR502W//8576A53-2-1 (C762/PU791907A7-3)	Harrison	00-01
19	TX98D2106	Caldwell/FL302//Coker 797	Marshall	00-01
20	GF90524E1	Coker 9835/GA861278 (Gore/FL302)	Johnson	00-01
21	GF92485E15	GA831276 (Saluda/FL74265)/GA861278 (Gore/FL302)	Johnson	00-01
22	GF921221E16	GA83519/GA85240//GA861278	Johnson	00-01
23	NC96-13156	C8629//Stella/CHD45680/3/C9907	Murphy	00-01
24	AW-D97-6075	Pioneer 2545/89M-4032A	Fogleman	00-01
25	AW-D97*6940	Gore/FL302	Fogleman	00-01
26	AW-D97*6961	T84-331/Coker 9134	Fogleman	00-01
27	AW-D97-6740	Coker 9803/89D-4776	Fogleman	00-01
28	VA98W-591	VA92-51-39 (IN71761A4-31-5-48//VA7154-147/McNair1813)/ AL870365 (Coker747*2/Amigo)	Griffey	00-01
29	VA99W-200	VA91-54-343 (IN71761A4-31-5-48//VA7154-147//McNair 1813)/ VA91-54-222 (Roane "S")	Griffey	00-01
30	VA99W-169	VA91-54-343 (IN71761A4-31-5-48//VA7154-147//McNair 1813)/ VA92-52-52 (Adria/2*Saluda)	Griffey	00-01
31	TX97-167	Adder//TX84U4408/Pavon 76	Nelson	00-01
32	SC952746	VA71-54-147/Co68-15//EA9/3/MD55220/EA9//Seneca	Graham	00-01
33	SC960057	VA66-54-6/VA55-54-19//Co?/3/H14H15/4/Andy	Graham	00-01
34	B960208	Coker 9877/8268G1-19-4	Hancock	00-01
35	B960457	Coker 9227//Blueboy II/AL850050	Hancock	00-01
36	B961378	PS840061/Saluda//Coker 9877	Hancock	00-01
37	G09088	C916/T812	Brown	00-01
38	G09091	IL84-3010/T812	Brown	00-01
39	G09080	Clark/MO 10501	Brown	00-01
40	G09138	IL84-3010/C86-33	Brown	00-01
41	F/G921188E43	881404-1-5 (Ceruga 7 sib)//FL302/Gore	Barnett	00-01
42	MDV71-19	Ck983//GA-Andy/VA90-21-20	Costa	00-01
43	MDV26-30	KS90WGRC10/Massey	Costa	00-01

LOCATION NOTES

Belle Mina, Alabama

Cooperators: Kathryn M. Glass
Auburn University
Planted: November 15, 2000
Harvested: June 19, 2001

Bay, Arkansas

Cooperators: June Hancock, Craig Allen, David Hill
Syngenta
Planted: October 16, 2000
Harvested: June 12, 2001
Comments: Dry planting conditions, then late November wet and cold. Very dry April and May which lead to problems in sandy areas. One rep lost, plots were under extreme drought conditions.

DeWitt, Arkansas

Cooperators: Barton Fogleman, Michael Montgomery, Chris DeArmond
AgriPro Wheat
Planted: October 11, 2000
Harvested: June 9, 2001

Fayetteville, Arkansas

Cooperators: Gene Milus
University of Arkansas
Planted: October 19, 2000
Fertilizer: 80-0-0
Comments: Values are the percentage of diseased foliage estimated on single-row plots with two replications. Stripe rust: inoculated with race PST-80 (virulent on Lemhi, Heines VII, Produra, Lee, Fielder, Express, Yr8, Yr9, Clement, Compare). Leaf rust: inoculated with three races, TLGL (virulent on Lr1, 2a, 2c, 3, 9, 11, 10), TNRL (virulent on Lr1, 2a, 2c, 3, 9, 24, 3ka, 11, 30, 10), MCRL (virulent on Lr1, 3, 26, 3ka, 11, 30, 10). Septoria: natural infection.

Kibler, Arkansas

Cooperators: Gene Milus
University of Arkansas
Planted: November 17, 2000
Fertilizer: 80-0-0
Comments: Leaf rust: inoculated with race TNRL.

Keiser, Arkansas

Cooperators: Robert Bacon, John Kelly
University of Arkansas
Planted: October 11, 2000
Harvested: June 21, 2001
Fertilizer: 150-0-0

Quincy, Florida

Cooperators: Ron Barnett, Lloyd Schell
University of Florida
Planted: November 22, 2000
Fertilizer: 75-50-75

Griffin, Georgia

Cooperators: Jerry Johnson, Barry Cunfer, Dan Bland
University of Georgia
Planted: November 16, 2000
Harvested: May 28, 2001
Fertilizer: 20-0-0 at planting; 80-0-0 topdress
Comments: Dry spring with minimal disease pressure. Delayed harvest due to excessive rain.

Plains, Georgia

Cooperators: Jerry Johnson, Barry Cunfer, Dan Bland
University of Georgia
Planted: November 16, 2000
Harvested: May 28, 2001
Fertilizer: 20-0-0 at planting; 80-0-0 topdress
Comments: Dry spring with minimal disease pressure.

Aberdeen, Idaho

Cooperators: Charles Erickson, Scott McNeil, Harold Bockelman
USDA-ARS National Small Grains Collection
Planted: September 25, 2000
Harvested: July 23, 2001

Greensburg, Indiana

Cooperators: Sam Brown
Genesis Seed Research
Planted: October 6, 2000
Harvested: July 2, 2001
Fertilizer: 28-46-32 fall; 60-0-0 spring
Comments: Good stand establishment, mild winter, snow cover during coldest parts, cool spring, ample moisture, heavy mildew development.

West Lafayette, Indiana

Cooperators: Roger Ratcliffe, Sue Cambron
USDA-ARS Crop Production & Pest Control Research

Comments: Provided Hessian fly data.

Winfield, Kansas

Cooperators: Sid Perry
Cargill-Goertzen Seed Research

Hopkinsville, Kentucky

Cooperators: Gordon Cisar
Cargill-Goertzen Seed Research

Comments: Excessive bird feeding damage on one or both reps of entries 2, 8, and 20. They were eliminated from the data file with no yield estimate for these entries.

Logan County, Kentucky

Cooperators: Dave Van Sanford
University of Kentucky

Planted: October 12, 2000

Harvested: June 19, 2001

Fertilizer: 45-0-0 at GS-3; 60-0-0 at GS-5

Comments: Record year with little disease. The nursery at Lexington was lost due to heaving.

Baton Rouge, Louisiana

Cooperators: Steve Harrison, Kelly Arceneaux
Louisiana State University

Planted: December 3, 2000

Harvested: May 23, 2001

Comments: Planted about three weeks later than normal due to rainfall in November. Dry spring with minimal disease pressure. Considerable range in test weights partly because of range in maturity.

Queenstown, Maryland

Cooperators: Jose Costa, Aaron Cooper
University of Maryland

Planted: October 11, 2000

Harvested: June 25, 2001

Fertilizer: 80-0-0 in spring

Comments: Dry spring, no diseases.

St. Paul, Minnesota

Cooperators: Dave Long, Don McVey
USDA-ARS Cereal Disease Laboratory

Comments: Adult plant reaction to leaf rust and stem rust. Seedling reaction to leaf rust. Cold, wet spring followed by hot, dry weather. Plants fully headed when inoculated.

Portageville, Missouri

Cooperators: Anne L. McKendry, David N. Tague
University of Missouri

Planted: October 19, 2000

Harvested: June 20, 2001

Fertilizer: 40-0-0 fall; 80-0-0 spring

Comments: Crop was planted in a timely fashion. December was the second coldest on record (11-14 degrees below normal). Spring conditions were extremely dry. Soilborne mosaic virus was identified at Portageville, as were the PAV, RPV, and RMV strains of BYDV. Ratings presented are for soilborne, although they may have been slightly confounded with early BYDV symptoms. Armyworm was present at the location, but below threshold levels required for spraying. Cooler and wetter conditions towards the end of May may have helped to alleviate the problem.

Cleveland, Mississippi

Cooperators: Barton Fogleman, Michael Montgomery, Chris DeArmond
AgriPro Wheat

Planted: October 23, 2000

Harvested: June 12, 2001

Comments: Stripe rust was very light. Severity exaggerated.

Lincoln, Nebraska

Cooperators: Robert A. Graybosch
USDA-ARS Wheat, Sorghum, and Forage Research Unit

Comments: Provided the IRS data.

Kinston, North Carolina

Cooperators: Paul Murphy
North Carolina State University

Planted: October 19, 2000

Fertilizer: 120-0-0

Comments: A severe late spring freeze on April 19, right at the end of heading, destroyed this experiment. All lines were damaged and most had less than 10% seed fill in heads. Experiment was not harvested, but data presented are solid. Mildew was very heavy.

Raleigh, North Carolina

cooperators:

Lynda Whitcher
USDA-ARS Plant Science Research Unit

Comments:

Powdery mildew evaluations were completed on detached primary leaves from ten day old plants. Leaves were cut into 3 cm sections and suspended on 0.5 % water agar amended with 50 ppm benzimidazole. Leaf sections were uniformly inoculated with conidia of *Blumeria graminis* f. sp. *tritici* (= *Erysiphe graminis* f. sp. *tritici*). The leaf sections were evaluated eight and ten days after inoculation on a ten point scale. The data from two replications and two rating dates were combined and condensed into one of three categories: Resistant (R), Intermediate (I), or Susceptible (S).

Wooster, Ohio

Cooperators:

Clay Sneller
Ohio State University, OARDC

Planted:

October 2, 2000

Harvested:

July 12, 2001

Fertilizer:

12-48-48; 80-0-0

Wooster, Ohio

Cooperators:

Charles Gaines
USDA-ARS Soft Wheat Quality Lab

Comments:

Quality data.

Enid, Oklahoma

Cooperators:

Brett Carver, Melisa Rice
Oklahoma State University

Comments:

Acid soil tolerance ratings. Standard used to set scale was 2163, a tolerant HRW wheat with an assigned valued of 2 on a scale of 1 (tolerant) to 5 (susceptible). Three readings were collected, but only the final two were reported due to bias from unusually wet soil conditions. Readings reported may still be confounded by lack of moisture stress and by inherent differences in forage production unrelated to acid soil tolerance. Data collected only on new entries.

Clemson, South Carolina

Cooperators:

W. Doyce Graham, Jr.
Clemson University

Planted:

November 13, 2000

Harvested:

June 12, 2001

Fertilizer:

80-40-40

Florence, South Carolina

Cooperators: W. Doyce Graham, Jr.
Clemson University
Planted: November 16, 2000
Harvested: June 6, 2001
Fertilizer: 80-80-75

Knoxville, Tennessee

Cooperators: Dennis West
University of Tennessee
Planted: October 30, 2000
Harvested: June 13, 2001
Fertilizer: 60-75-75

Beeville, Texas

Cooperators: Dave Marshall
Texas A&M University
Comments: Rust reactions taken on juvenile plants. Vernalization response: 3=completely vernalized, 2=partially vernalized and late maturing, 1=no vernalization.

Overton, Texas

Cooperators: Lloyd R. Nelson
Texas A&M University
Planted: October 17, 2000
Harvested: May 25, 2001
Fertilizer: 35-91-91
Comments: Leaf rust and powdery mildew were absent.

Prosper, Texas

Cooperators: Dave Marshall
Texas A&M University
Planted: December 6, 2000
Harvested: June 20, 2001
Fertilizer: 100-0-0
Comments: Planted late into very wet soil. Poor stands. Significant ($P=.05$) correlations between yield and stand (-0.4928) and between yield and Hessian fly rating (-0.3722). For both stand and Hessian fly, 0=good and 5=poor.

Blacksburg, Virginia

Cooperators:

Carl A. Griffey
Virginia Tech

Comments:

One-replicate observation. All 0-9 ratings indicate relative severity where 0=none and 9=total. Belgian lodging scale= area x intensity x 0.2. Area is rated on a scale from 1 (plot unaffected) to 10 (entire plot affected). Intensity is rated on a scale from 1 (plants standing upright) to 5 (plants lying flat on the ground). Greenhouse disease screening: MCRQ and TLGG are races of leaf rust. PM Composite is a combination of several powdery mildew isolates. Roane represents a powdery mildew isolate collected and increased on the cultivar Roane and is a potentially new isolate. Leaf rust was rated on a 0-3 scale where 3=susceptible. Powdery mildew was rated on a 0-4 scale where 4=susceptible.

Warsaw, Virginia

Cooperators:

Carl A. Griffey
Virginia Tech

Planted:

October 17, 2000

Harvested:

June 26, 2001

Fertilizer:

30-80-80 applied on 10/12; 25 lbs. (25003)/a + 0.6
Harmony Extra applied on 12/6; 38 lbs. (24003)/a applied
on 2/24; 64 lbs (24003)/a applied on 3/27.

Comments:

Early plant height serves as an indicator of spring growth habit. All 0-9 ratings indicate relative severity where 0=none and 9=total. Belgian lodging scale= area x intensity x 0.2. Area is rated on a scale from 1 (plot unaffected) to 10 (entire plot affected). Intensity is rated on a scale from 1 (plants standing upright) to 5 (plants lying flat on the ground).

YIELD (bu/acre)

		Belle Mina AL		Bay AR		DeWitt AR		Keiser AR		Quincy FL		Griffin GA		Plains GA	
		#	rank	#@	rank	#@	rank	#@	rank	#	rank	#@	rank	#@	rank
1	Coker 9835	58.1	11	63.4	32	52.3	35	58.6	22	67.9	22	72.7	19	100.4	31
2	Coker 9663	55.0	21	68.0	18	57.1	23	64.0	10	58.9	33	76.1	16	106.3	10
3	Mason	56.7	16	64.8	28	57.0	24	58.1	24	66.3	25	65.6	32	97.7	35
4	AGS2000	65.9	2	64.3	30	68.7	2	68.0	2	73.5	6	82.5	7	107.8	6
5	S9412192	55.0	22	70.7	15	54.0	31	51.7	39	62.6	29	55.9	37	96.1	36
6	LA90518PB43-3-1-4	52.7	29	65.4	26	62.5	12	65.7	8	68.4	21	77.4	15	101.6	27
7	LA90185G3-1-3-4-2	61.0	4	72.0	12	72.1	1	55.4	34	57.5	38	66.8	28	105.9	11
8	VA98W-593	60.8	5	59.6	39	57.6	21	66.0	7	69.4	18	79.1	12	109.7	4
9	NC96-13155	50.6	39	66.2	23	53.4	32	56.4	28	70.3	16	70.7	23	102.5	22
10	NC96-13965	51.2	36	64.6	29	48.5	39	58.9	19	71.9	9	66.6	30	104.8	18
11	B950943	59.2	8	70.9	14	50.2	36	57.8	26	67.7	23	68.8	27	114.0	1
12	TX96D1320	51.7	34	55.1	41	49.9	37	59.9	14	51.2	42	69.5	24	90.9	39
13	TX97D6737	49.0	41	66.3	22	60.3	14	50.1	41	60.3	31	77.5	14	102.4	23
14	TX91-57	51.1	38	61.2	36	59.6	17	60.5	12	70.4	15	69.1	25	100.8	29
15	AR839-27-1-3	60.7	6	80.6	3	56.4	25	66.2	6	70.1	17	63.6	35	97.8	34
16	AR839-25-8-2	55.1	20	72.1	11	65.7	5	66.9	3	71.5	11	75.7	17	103.4	19
17	AR-LA85411	51.3	35	72.3	10	45.2	41	58.7	21	75.2	5	80.8	9	101.2	28
18	LA9397D5-3-3	51.2	37	58.4	40	58.8	18	65.2	9	72.3	8	90.8	2	105.9	12
19	TX98D2106	52.0	33	62.7	34	54.0	30	55.9	30	56.3	40	66.1	31	88.5	42
20	GF90524E1	47.7	42	63.5	31	42.4	42	44.8	43	68.8	19	68.9	26	108.3	5
21	GF92485E15	67.3	1	70.7	16	65.3	6	59.7	15	70.7	13	88.3	3	112.9	2
22	GF921221E16	54.1	25	71.4	13	59.6	16	56.7	27	63.8	27	72.7	20	109.8	3
23	NC96-13156	52.9	28	69.5	17	49.7	38	58.1	25	68.8	20	72.6	21	105.3	15
24	AW-D97-6075	57.8	13	83.6	1	64.9	7	54.7	37	66.7	24	79.2	11	105.2	16
25	AW-D97*6940	58.7	10	66.4	20	55.8	26	59.1	17	54.6	41	65.6	33	107.2	7
26	AW-D97*6961	59.7	7	60.8	38	68.2	3	66.8	4	70.5	14	55.1	39	105.7	14
27	AW-D97-6740	53.7	27	49.0	42	54.8	29	60.5	13	75.7	4	79.7	10	102.1	24
28	VA98W-591	57.4	14	76.4	5	60.8	13	69.2	1	82.8	1	82.8	6	100.8	30
29	VA99W-200	54.1	26	76.2	6	53.0	34	59.5	16	76.8	2	91.8	1	104.9	17
30	VA99W-169	55.6	18	75.5	8	57.1	22	60.6	11	75.9	3	77.6	13	98.7	32
31	TX97-167	56.9	15	66.4	21	60.0	15	59.0	18	57.6	37	86.2	5	101.9	25
32	SC952746	52.4	31	82.8	2	55.5	27	48.5	42	56.9	39	74.6	18	102.7	20
33	SC960057	54.7	23	63.1	33	58.2	19	55.9	31	58.3	35	49.1	41	73.6	43
34	B960208	63.8	3	76.8	4	63.0	10	66.8	5	58.8	34	65.2	34	98.1	33
35	B960457	52.7	30	61.7	35	66.5	4	55.5	33	58.0	36	88.1	4	102.6	21
36	B961378	54.2	24	74.9	9	64.6	8	51.3	40	73.5	7	53.6	40	101.8	26
37	G09088	58.1	12	65.0	27	47.7	40	56.2	29	60.2	32	56.9	36	90.8	40
38	G09091	55.6	19	61.2	37	63.0	11	55.2	35	71.7	10	48.5	42	94.8	38
39	G09080	58.8	9	65.6	25	55.2	28	58.2	23	71.1	12	43.0	43	96.0	37
40	G09138	52.4	32	65.9	24	63.1	9	58.9	20	61.1	30	82.5	8	106.4	9
41	F/G921188E43	56.5	17	67.0	19	53.1	33	55.2	36	65.0	26	66.7	29	106.8	8
42	MDV71-19	50.3	40	75.8	7	37.7	43	53.7	38	63.2	28	72.1	22	105.8	13
43	MDV26-30	47.7	43	43.1	43	57.8	20	55.7	32	50.1	43	55.8	38	89.2	41
LOCATION MEANS		55.4		67.2		57.2		58.7		66.1		71.0		101.6	
LSD (.05)				13.6		8.9		8.3		11.7		8.5		9.7	
CV %				10		7.7		8.7		10.91		7.4		5.9	
REPS		3		2		2		3		3		3		3	
Harvest Plot Size (sq.ft.)		100		60.2		58.5		61.25		60		50		50	

YIELD (bu/acre)

	Aberdeen		Greensburg		Winfield		Hopkinsville		Logan Co.		Baton Rouge		Queenstown				
	ID	rank	IN	rank	KS	@	rank	KY	#	rank	KY	#	rank	MD	#	@	rank
1	Coker 9835	107.5	3	75.8	40	70.7	3	71.6	36	90.4	12	87.7	5	96.7	3		
2	Coker 9663	99.3	16	97.3	12	66.1	16			77.1	37	85.3	11	93.1	8		
3	Mason	100.2	13	88.1	23	58.9	28	81.3	23	80.5	33	69.5	33	91.5	11		
4	AGS2000	108.4	2	81.3	33	50.3	31	93.3	3	69.0	41	70.9	32	86.1	25		
5	S9412192	95.3	20	74.0	41	51.9	30	85.1	14	90.8	11	65.4	39	80.7	38		
6	LA90518PB43-3-1-4	83.8	36	72.0	42	50.2	32	79.2	25	81.4	32	74.9	26	86.8	22		
7	LA90185G3-1-3-4-2	106.6	6	103.3	5	44.8	38	85.7	12	94.4	9	76.1	24	99.1	2		
8	VA98W-593	98.4	17	106.0	3	49.8	33			94.6	8	78.6	18	95.2	4		
9	NC96-13155	90.6	26	103.6	4	65.4	18	76.9	29	78.2	35	78.1	20	87.8	19		
10	NC96-13965	101.0	11	97.7	11	63.6	23	75.3	31	85.1	24	79.9	17	86.9	21		
11	B950943	121.3	1	78.9	34	61.4	26	79.6	24	99.0	2	71.4	31	86.1	26		
12	TX96D1320	101.0	12	76.5	38	43.2	39	63.9	40	88.4	15	52.0	42	78.7	40		
13	TX97D6737	87.4	31	76.5	39	64.1	20	87.6	10	75.4	39	77.1	21	79.6	39		
14	TX91-57	87.2	32	95.1	15	46.1	37	89.8	7	61.5	43	68.5	37	91.1	12		
15	AR839-27-1-3	89.0	28	90.0	20	70.1	4	85.4	13	97.3	4	81.8	15	74.9	42		
16	AR839-25-8-2	107.0	5	92.9	18	65.8	17	82.6	19	83.5	28	73.0	30	82.2	36		
17	AR-LA85411	81.8	38	84.7	30	38.9	40	76.9	28	87.7	18	87.2	6	83.4	31		
18	LA9397D5-3-3	88.2	30	96.8	13	70.1	5	81.9	21	84.2	26	86.6	7	87.7	20		
19	TX98D2106	64.8	43	85.3	28	54.8	29	65.6	38	66.7	42	76.1	25	70.4	43		
20	GF90524E1	96.5	18	86.0	27	61.1	27			75.1	40	73.4	28	89.8	14		
21	GF92485E15	99.8	14	116.4	1	37.5	42	92.2	5	97.0	5	86.3	8	94.4	5		
22	GF921221E16	95.1	22	99.4	8	69.2	10	72.4	35	97.4	3	82.8	13	82.9	33		
23	NC96-13156	104.8	7	98.7	9	62.9	24	75.7	30	84.1	27	77.1	22	81.2	37		
24	AW-D97-6075	89.8	27	112.8	2	71.8	2	92.9	4	95.8	6	86.3	9	88.2	16		
25	AW-D97*6940	90.8	25	98.7	10	31.7	43	83.5	18	76.9	38	73.3	29	89.6	15		
26	AW-D97*6961	101.7	10	95.1	16	62.0	25	90.6	6	88.7	14	60.6	41	84.8	28		
27	AW-D97-6740	71.4	42	101.5	7	66.6	13	78.3	27	87.1	21	86.1	10	93.4	7		
28	VA98W-591	80.0	39	95.2	14	69.3	8	88.3	8	91.6	10	90.7	2	92.8	10		
29	VA99W-200	95.7	19	87.9	24	67.1	12	82.3	20	95.1	7	89.9	3	101.6	1		
30	VA99W-169	86.3	33	84.8	29	69.8	6	98.7	1	86.4	22	69.0	35	93.5	6		
31	TX97-167	78.4	40	94.8	17	64.2	19	84.1	17	81.8	31	67.1	38	91.1	13		
32	SC952746	102.0	8	78.0	36	48.5	34	96.4	2	87.9	17	77.1	23	88.2	17		
33	SC960057	91.6	24	88.6	22	47.5	36	72.5	34	77.8	36	51.7	43	86.5	23		
34	B960208	85.3	35	78.7	35	74.1	1	88.3	9	88.0	16	68.8	36	83.0	32		
35	B960457	99.7	15	102.8	6	48.1	35	68.8	37	87.6	19	83.1	12	93.0	9		
36	B961378	107.2	4	90.9	19	69.6	7	81.9	22	83.1	29	78.4	19	78.2	41		
37	G09088	95.3	21	84.7	31	66.4	14	64.7	39	89.2	13	80.8	16	82.5	35		
38	G09091	88.7	29	87.1	26	64.1	21	78.8	26	85.9	23	91.1	1	83.7	30		
39	G09080	82.7	37	89.8	21	69.3	9	84.8	15	82.0	30	89.9	4	86.4	24		
40	G09138	85.4	34	77.4	37	63.7	22	74.2	33	84.7	25	73.6	27	82.7	34		
41	F/G921188E43	101.8	9	63.4	43	38.5	41	87.4	11	87.4	20	69.1	34	85.8	27		
42	MDV71-19	94.4	23	84.5	32	67.6	11	84.8	16	99.7	1	82.0	14	88.1	18		
43	MDV26-30	74.7	41	87.2	25	66.4	15	75.2	32	79.6	34	63.9	40	84.1	29		
LOCATION MEANS		93.4		89.8		59.1		81.5		85.5		76.6		87.1			
LSD (.05)		13.55				6.8		9.8		16.7				9.1			
CV %		10.56				6.7		5.9		11.6				6.5			
REPS		4		1				2		2		3		3			
Harvest Plot Size (sq.ft.)		18.67		32				40		40		65		56			

YIELD (bu/acre)

	Portageville	Cleveland	Wooster	Clemson	Florence	Knoxville	Overton							
	MO	MS	OH	SC	SC	TN	TX							
	#	#@	@	#@	#@	#	#@							
	rank	rank	rank	rank	rank	rank	rank							
1 Coker 9835	51.7	20	69.8	23	70.2	35	64.8	16	68.0	17	60.6	21	64.1	21
2 Coker 9663	52.6	18	73.2	19	83.1	6	52.6	39	52.7	33	57.5	26	68.3	11
3 Mason	51.5	21	69.4	24	84.0	4	66.8	9	62.5	23	70.7	9	58.1	36
4 AGS2000	57.0	6	86.8	1	76.9	23	58.0	29	78.9	5	65.8	14	75.6	2
5 S9412192	50.1	27	78.3	10	57.4	42	54.2	35	58.1	26	63.6	18	64.6	20
6 LA90518PB43-3-1-4	45.9	35	65.8	31	73.4	30	61.8	22	75.4	8	51.4	40	70.1	6
7 LA90185G3-1-3-4-2	48.0	33	77.6	11	78.2	18	53.0	36	64.2	19	61.3	20	70.9	5
8 VA98W-593	51.2	22	74.6	16	74.7	26	52.7	38	82.5	1	80.1	3	69.3	9
9 NC96-13155	50.8	23	65.5	33	83.7	5	67.5	7	75.5	7	54.1	36	62.1	26
10 NC96-13965	40.1	42	60.7	39	73.9	29	72.3	2	78.1	6	56.6	31	61.9	28
11 B950943	50.8	24	68.0	27	79.1	16	74.0	1	55.7	29	55.8	33	66.5	14
12 TX96D1320	42.5	38	68.1	26	56.5	43	53.0	37	37.0	43	38.9	43	60.3	33
13 TX97D6737	43.9	37	58.6	41	63.5	40	61.7	23	49.0	36	51.5	39	54.2	41
14 TX91-57	54.4	12	66.4	29	77.9	19	54.8	34	79.8	4	55.7	34	56.8	38
15 AR839-27-1-3	55.0	11	74.3	17	79.4	15	66.9	8	47.6	38	76.7	4	62.7	24
16 AR839-25-8-2	49.8	28	83.6	2	77.4	20	57.1	33	56.3	28	64.3	15	65.1	19
17 AR-LA85411	60.3	1	66.9	28	75.1	25	49.1	41	64.6	18	70.8	8	75.3	3
18 LA9397D5-3-3	52.5	19	73.6	18	75.3	24	65.5	13	47.9	37	64.3	16	58.5	35
19 TX98D2106	41.8	40	62.7	36	60.7	41	57.6	30	54.4	31	58.2	25	49.9	43
20 GF90524E1	41.1	41	65.0	35	80.7	13	62.4	18	60.8	24	53.1	37	62.0	27
21 GF92485E15	49.2	29	80.6	5	85.5	2	61.9	21	79.9	3	70.4	10	68.3	12
22 GF921221E16	59.1	4	68.8	25	81.9	11	68.4	6	70.2	15	56.9	30	69.1	10
23 NC96-13156	46.1	34	65.7	32	82.7	8	65.5	14	71.2	13	53.1	38	69.7	7
24 AW-D97-6075	59.4	3	72.1	20	81.1	12	69.0	5	55.4	30	80.9	2	66.0	16
25 AW-D97*6940	50.2	25	65.1	34	82.4	9	60.8	25	69.1	16	63.0	19	77.3	1
26 AW-D97*6961	56.1	8	78.7	9	74.7	27	51.0	40	74.1	11	67.2	12	62.7	25
27 AW-D97-6740	48.2	31	70.0	22	82.4	10	71.7	3	62.9	21	60.2	22	62.9	23
28 VA98W-591	56.7	7	79.3	7	83.1	7	58.6	27	74.9	9	81.3	1	65.5	17
29 VA99W-200	50.2	26	65.8	30	86.0	1	66.7	10	82.1	2	72.8	5	61.7	29
30 VA99W-169	57.3	5	77.5	12	79.5	14	70.4	4	71.2	14	71.5	6	67.7	13
31 TX97-167	48.3	30	71.8	21	73.4	31	66.2	12	58.4	25	66.3	13	72.1	4
32 SC952746	60.0	2	80.2	6	71.8	33	57.4	31	53.8	32	56.6	32	50.6	42
33 SC960057	41.9	39	52.6	42	77.3	22	40.4	43	51.7	34	49.6	42	56.3	39
34 B960208	54.1	14	80.9	4	63.9	39	58.1	28	46.8	40	58.6	24	65.5	18
35 B960457	53.1	17	81.3	3	84.1	3	57.4	32	63.4	20	57.1	29	69.6	8
36 B961378	53.5	15	75.5	15	78.3	17	61.3	24	43.9	42	70.3	11	66.5	15
37 G09088	39.4	43	62.4	37	65.5	38	62.0	19	47.1	39	54.6	35	55.2	40
38 G09091	55.3	9	78.9	8	71.3	34	65.1	15	49.6	35	60.1	23	63.5	22
39 G09080	44.8	36	76.8	13	68.4	37	59.2	26	57.5	27	64.0	17	61.0	30
40 G09138	53.3	16	76.8	14	70.1	36	62.0	20	46.5	41	57.2	28	57.8	37
41 F/G921188E43	48.2	32	60.4	40	77.4	21	49.0	42	74.7	10	57.5	27	58.9	34
42 MDV71-19	54.2	13	40.1	43	74.0	28	66.6	11	71.7	12	71.0	7	60.4	32
43 MDV26-30	55.2	10	61.5	38	72.1	32	64.3	17	62.6	22	50.2	41	60.5	31
LOCATION MEANS	50.8		70.5		75.5		60.9		62.5		61.9		63.8	
LSD (.05)	10.2		9		6.5		9.7		8.8		10.7		7.1	
CV %	12.3		6.4		5.3		9.9		8.8		10.6		8.2	
REPS	3		2		3		3		3		3		3	
Harvest Plot Size (sq.ft.)			58.5		45		35		35		39		40	

YIELD (bu/acre)

	Prosper TX		Blacksburg VA		Warsaw VA		ENTRY MEANS ALL LOCATIONS		ENTRY MEANS IN-REGION		ENTRY ME CV <10%
	#	rank	#	rank	#	rank	rank	#	rank	@	
1 Coker 9835	47.2	11	78.5	10	55.4	26	71.0	15	69.0	13	71.1
2 Coker 9663	38.3	32	96.9	1	54.8	27	71.0	14	67.8	21	70.7
3 Mason	40.9	25	68.2	24	54.2	30	69.3	25	66.6	27	69.3
4 AGS2000	56.0	1	71.2	19	61.1	15	74.1	7	73.0	4	76.7
5 S9412192	34.0	39	67.8	25	52.1	31	65.4	37	64.5	36	66.8
6 LA90518PB43-3-1-4	41.1	24	78.3	12	46.4	39	68.0	31	67.6	22	71.8
7 LA90185G3-1-3-4-2	51.6	3	75.7	16	59.4	17	72.5	9	70.4	8	72.3
8 VA98W-593	49.3	8	77.1	14	75.7	3	74.4	5	72.8	6	72.4
9 NC96-13155	38.5	31	58.8	41	65.8	11	69.7	23	66.5	29	70.8
10 NC96-13965	42.6	18	61.2	37	60.6	16	69.3	24	66.4	30	70.2
11 B950943	35.2	37	69.2	22	56.1	24	70.7	16	67.8	20	71.1
12 TX96D1320	50.2	6	64.2	33	36.3	43	59.9	43	58.1	42	60.8
13 TX97D6737	34.5	38	66.0	30	45.6	40	64.3	38	62.5	37	67.6
14 TX91-57	40.1	27	67.3	26	57.7	19	67.6	33	65.8	34	69.7
15 AR839-27-1-3	40.7	26	72.0	18	62.0	14	71.7	12	69.6	11	70.5
16 AR839-25-8-2	44.9	14	64.7	32	63.3	12	71.8	11	69.0	12	73.0
17 AR-LA85411	30.6	43	69.1	23	66.1	10	68.9	26	68.6	16	67.8
18 LA9397D5-3-3	39.9	29	63.9	34	50.9	32	70.4	19	68.0	19	72.0
19 TX98D2106	41.7	21	53.6	43	49.2	34	60.4	42	59.2	41	61.9
20 GF90524E1	39.1	30	59.7	40	57.2	20	65.5	36	62.3	38	66.3
21 GF92485E15	44.5	15	75.1	17	66.8	9	76.7	2	75.1	2	76.0
22 GF921221E16	41.4	23	61.3	36	56.8	22	71.7	13	68.8	14	72.6
23 NC96-13156	45.0	13	56.9	42	62.8	13	70.0	21	66.6	28	70.6
24 AW-D97-6075	42.4	19	66.3	29	68.6	6	75.5	4	72.8	7	75.3
25 AW-D97*6940	36.4	34	78.4	11	47.4	37	68.4	27	66.9	23	69.3
26 AW-D97*6961	49.1	9	88.9	4	68.0	7	72.5	8	70.4	9	71.7
27 AW-D97-6740	51.5	4	69.2	21	55.7	25	70.6	17	68.6	17	71.0
28 VA98W-591	54.4	2	82.0	9	79.1	1	77.2	1	76.3	1	76.6
29 VA99W-200	41.8	20	87.7	5	76.7	2	76.1	3	74.5	3	76.1
30 VA99W-169	40.0	28	85.5	7	70.7	4	74.2	6	73.0	5	76.5
31 TX97-167	35.6	36	82.7	8	57.2	21	70.1	20	68.5	18	73.4
32 SC952746	33.0	41	63.9	35	54.6	29	68.1	29	66.7	25	69.9
33 SC960057	33.7	40	76.2	15	50.2	33	60.8	41	57.7	43	58.9
34 B960208	49.5	7	66.7	28	36.7	42	68.3	28	66.9	24	72.2
35 B960457	50.9	5	91.2	2	56.7	23	72.2	10	69.9	10	71.3
36 B961378	41.7	22	77.9	13	46.5	38	69.9	22	66.6	26	68.6
37 G09088	43.5	17	67.1	27	44.7	41	64.2	39	61.4	40	63.1
38 G09091	48.5	10	60.3	39	47.9	35	67.9	32	65.9	33	67.2
39 G09080	44.4	16	69.5	20	54.7	28	68.0	30	66.1	32	67.7
40 G09138	37.1	33	65.7	31	47.5	36	66.9	35	65.5	35	70.1
41 F/G921188E43	32.0	42	86.8	6	57.8	18	66.9	34	66.3	31	67.0
42 MDV71-19	35.7	35	90.7	3	70.1	5	70.6	18	68.7	15	68.7
43 MDV26-30	45.4	12	60.8	38	67.0	8	63.7	40	61.5	39	64.7
LOCATION MEANS	42.2		72.0		57.5						
LSD (.05)	7.7				8.5						
CV %	18				10.8						
REPS	3		1		3						
Harvest Plot Size (sq.ft.)	54				45						

YIELD (bu/acre)

		RANK
1	Coker 9835	17
2	Coker 9663	21
3	Mason	28
4	AGS2000	1
5	S9412192	37
6	LA90518PB43-3-1-4	14
7	LA90185G3-1-3-4-2	11
8	VA98W-593	10
9	NC96-13155	20
10	NC96-13965	24
11	B950943	18
12	TX96D1320	42
13	TX97D6737	34
14	TX91-57	27
15	AR839-27-1-3	23
16	AR839-25-8-2	8
17	AR-LA85411	32
18	LA9397D5-3-3	13
19	TX98D2106	41
20	GF90524E1	38
21	GF92485E15	5
22	GF921221E16	9
23	NC96-13156	22
24	AW-D97-6075	6
25	AW-D97*6940	29
26	AW-D97*6961	15
27	AW-D97-6740	19
28	VA98W-591	2
29	VA99W-200	4
30	VA99W-169	3
31	TX97-167	7
32	SC952746	26
33	SC960057	43
34	B960208	12
35	B960457	16
36	B961378	31
37	G09088	40
38	G09091	35
39	G09080	33
40	G09138	25
41	F/G921188E43	36
42	MDV71-19	30
43	MDV26-30	39

LOCATION MEANS

LSD (.05)

CV %

REPS

Harvest Plot Size (sq.ft.)

TEST WEIGHT (lbs/bu)

	Belle Mina AL	Bay AR	Keiser AR	Quincy FL	Griffin GA	Plains GA
1 Coker 9835	55.1	58.8	55.9	56.8	55.2	57.9
2 Coker 9663	57.0	59.9	57.9	56.6	56.5	60.6
3 Mason	54.6	56.3	52.9	55.4	54.3	58.6
4 AGS2000	58.5	58.9	56.3	57.3	56.3	61.2
5 S9412192	56.3	58.7	57.3	53.8	52.6	58.8
6 LA90518PB43-3-1-4	54.9	56.7	55.7	55.0	53.3	59.3
7 LA90185G3-1-3-4-2	57.3	58.4	55.8	55.7	54.7	60.0
8 VA98W-593	58.1	60.3	59.3	58.2	58.4	62.2
9 NC96-13155	57.0	60.3	58.1	59.2	57.9	61.6
10 NC96-13965	54.9	59.5	55.5	57.3	57.2	60.2
11 B950943	54.9	58.8	56.5	54.4	55.4	59.5
12 TX96D1320	53.6	57.1	55.7	54.4	54.9	59.7
13 TX97D6737	55.2	57.7	55.4	53.8	54.9	59.1
14 TX91-57	55.8	56.3	54.1	56.0	55.0	61.0
15 AR839-27-1-3	56.0	60.7	57.6	56.3	57.2	60.4
16 AR839-25-8-2	55.5	58.8	56.9	56.0	56.5	60.6
17 AR-LA85411	55.7	60.8	58.5	57.3	56.1	60.7
18 LA9397D5-3-3	56.1	55.2	56.9	54.7	55.9	59.7
19 TX98D2106	54.9	59.0	56.9	55.0	55.1	59.0
20 GF90524E1	56.3	58.5	56.4	55.7	54.8	59.8
21 GF92485E15	59.4	60.6	58.5	58.9	51.8	62.2
22 GF921221E16	55.0	55.2	52.8	53.8	54.3	59.0
23 NC96-13156	56.2	60.9	57.8	58.2	56.9	60.9
24 AW-D97-6075	56.3	59.0	58.1	56.6	56.4	60.2
25 AW-D97*6940	56.9	59.2	58.0	55.7	54.9	61.2
26 AW-D97*6961	56.9	57.3	56.3	57.6	55.8	59.8
27 AW-D97-6740	56.4	57.5	59.0	59.5	57.5	61.0
28 VA98W-591	56.6	59.8	58.2	58.6	55.7	61.2
29 VA99W-200	56.4	59.1	56.8	55.4	49.2	59.5
30 VA99W-169	55.1	57.1	54.5	53.4	53.2	58.4
31 TX97-167	56.6	60.2	57.1	55.7	55.8	59.5
32 SC952746	54.1	60.0	54.2	54.1	55.6	60.5
33 SC960057	53.3	56.3	50.0	49.6	51.2	51.9
34 B960208	56.8	58.2	53.2	54.1	54.7	59.0
35 B960457	54.6	56.1	53.8	56.3	54.4	57.3
36 B961378	57.1	61.1	55.3	56.6	54.8	60.0
37 G09088	55.5	57.7	54.4	54.4	52.2	57.2
38 G09091	56.0	57.2	56.8	55.0	53.2	57.8
39 G09080	55.9	57.7	57.6	55.0	53.9	57.5
40 G09138	55.8	58.7	55.6	58.1	55.6	59.3
41 F/G921188E43	57.4	58.9	56.2	54.9	54.5	58.9
42 MDV71-19	55.1	57.2	55.8	56.7	53.7	57.3
43 MDV26-30	54.8	52.7	53.4	56.0	54.0	59.3
LOCATION MEANS	55.9	58.3	56.1	55.9	54.9	59.5

TEST WEIGHT (lbs/bu)

	Aberdeen ID	Greensburg IN	Hopkinsville KY	Logan Co. KY	Baton Rouge LA	Queenstown MD	
1	Coker 9835	60.8	55.2	58.3	57.2	56.5	57.1
2	Coker 9663	61.8	57.8	59.3	59.2	57.9	57.9
3	Mason	60.1	57.7	59.2	57.5	54.1	57.7
4	AGS2000	62.1	59.5	60.7	59.3	55.0	58.2
5	S9412192	60.5	57.8	59.6	57.7	51.5	57.5
6	LA90518PB43-3-1-4	60.4	57.2	60.0	57.6	53.9	56.9
7	LA90185G3-1-3-4-2	61.3	58.0	59.3	57.2	54.1	56.8
8	VA98W-593	62.6	60.7	61.4	60.9	58.0	59.6
9	NC96-13155	62.6	59.6	61.1	59.3	58.8	59.5
10	NC96-13965	62.0	58.7	60.6	58.5	58.5	58.5
11	B950943	61.0	56.3	58.6	58.9	55.3	56.6
12	TX96D1320	61.4	57.7	58.7	57.1	53.6	58.4
13	TX97D6737	60.3	57.8	59.0	57.7	55.0	56.6
14	TX91-57	60.8	58.3	59.9	56.9	52.6	56.6
15	AR839-27-1-3	60.7	58.0	59.7	58.8	57.4	57.6
16	AR839-25-8-2	60.6	58.0	59.6	57.9	56.8	58.0
17	AR-LA85411	62.3	59.6	61.7	59.6	56.7	59.9
18	LA9397D5-3-3	61.3	58.3	59.0	59.0	55.0	57.7
19	TX98D2106	57.9	57.2	59.0	55.5	56.9	57.8
20	GF90524E1	62.1	56.5	58.9	58.1	56.1	57.5
21	GF92485E15	62.4	60.7	61.7	60.6	55.6	58.6
22	GF921221E16	60.5	57.7	58.6	58.0	53.5	56.8
23	NC96-13156	62.5	59.3	61.4	60.0	58.9	59.3
24	AW-D97-6075	61.0	58.9	59.0	58.5	57.8	57.6
25	AW-D97*6940	61.6	60.1	60.4	59.1	55.6	58.9
26	AW-D97*6961	61.8	60.1	60.6	59.5	56.5	59.0
27	AW-D97-6740	61.8	61.4	60.7	60.2	58.6	60.0
28	VA98W-591	62.1	61.0	61.5	60.7	56.8	59.3
29	VA99W-200	62.8	59.0	60.1	59.5	54.8	57.7
30	VA99W-169	61.2	56.5	58.3	57.6	52.5	56.4
31	TX97-167	62.4	57.7	60.7	59.2	54.3	57.5
32	SC952746	60.9	58.3	58.9	57.3	58.1	57.5
33	SC960057	59.3	57.2	56.6	55.6	47.0	55.2
34	B960208	60.9	57.5	59.3	58.3	55.6	56.9
35	B960457	60.4	57.7	58.1	56.5	54.3	54.5
36	B961378	62.5	57.5	60.8	59.8	56.9	57.1
37	G09088	61.0	59.0	59.4	58.3	53.0	57.8
38	G09091	60.9	58.1	59.6	58.7	56.2	57.2
39	G09080	61.0	57.8	59.0	58.8	56.1	56.8
40	G09138	60.8	59.3	59.9	59.5	56.7	58.1
41	F/G921188E43	61.6	58.4	59.9	59.0	54.2	57.4
42	MDV71-19	61.5	58.1	58.6	57.5	57.8	56.2
43	MDV26-30	60.1	58.7	59.6	57.3	53.2	57.9
LOCATION MEANS	61.2	58.4	59.7	58.5	55.5	57.7	

TEST WEIGHT (lbs/bu)

	Portageville MO	Cleveland MS	Wooster OH	Clemson SC	Florence SC	Knoxville TN
1 Coker 9835	59.1	57.1	57.3	56.7	55.8	50.1
2 Coker 9663	59.9	59.7	60.0	57.2	57.0	50.6
3 Mason	58.1	58.4	59.3	54.3	55.1	56.2
4 AGS2000	60.5	59.3	59.2	55.8	56.7	55.6
5 S9412192	60.1	57.4	55.9	54.7	54.6	52.0
6 LA90518PB43-3-1-4	59.2	56.7	56.2	54.6	55.3	53.8
7 LA90185G3-1-3-4-2	59.1	57.1	57.2	55.5	54.7	52.9
8 VA98W-593	61.9	59.0	61.0	58.4	60.2	59.2
9 NC96-13155	61.4	58.6	62.0	57.9	58.3	56.1
10 NC96-13965	59.9	58.8	61.3	57.3	57.4	55.2
11 B950943	59.2	58.7	59.9	56.2	55.2	53.6
12 TX96D1320	59.4	59.5	57.0	54.0	52.2	50.8
13 TX97D6737	57.2	59.4	57.7	56.0	55.1	50.7
14 TX91-57	59.1	58.3	58.0	56.3	56.7	50.5
15 AR839-27-1-3	60.8	59.6	61.0	57.5	56.7	57.0
16 AR839-25-8-2	59.9	59.0	60.6	56.9	56.2	56.0
17 AR-LA85411	61.8	58.8	60.4	57.6	55.0	56.7
18 LA9397D5-3-3	59.7	57.7	57.0	56.5	54.4	56.2
19 TX98D2106	60.1	58.2	60.0	55.3	55.0	53.1
20 GF90524E1	59.6	58.8	59.0	56.8	55.7	45.1
21 GF92485E15	61.3	60.1	60.6	57.8	57.9	57.4
22 GF921221E16	57.7	59.0	58.9	53.6	53.8	54.2
23 NC96-13156	61.5	58.3	61.7	57.9	57.5	55.6
24 AW-D97-6075	61.4	60.8	58.7	57.7	57.4	58.2
25 AW-D97*6940	60.5	59.3	59.4	56.5	57.2	54.6
26 AW-D97*6961	60.6	58.0	60.2	55.2	56.8	52.7
27 AW-D97-6740	60.5	58.1	61.1	57.5	57.8	56.2
28 VA98W-591	61.4	59.3	61.4	57.2	56.5	57.1
29 VA99W-200	60.6	59.2	59.4	57.4	57.7	57.8
30 VA99W-169	57.9	58.9	56.0	55.6	54.1	52.8
31 TX97-167	60.6	58.5	60.2	55.9	54.6	54.9
32 SC952746	60.2	59.2	57.9	57.4	56.5	52.8
33 SC960057	55.5	56.3	56.1	51.7	52.7	52.3
34 B960208	59.2	58.0	54.9	56.0	55.5	53.7
35 B960457	57.2	56.8	56.2	54.6	53.5	51.4
36 B961378	59.9	58.7	61.0	57.6	56.7	55.0
37 G09088	59.0	58.1	56.3	54.6	54.2	54.7
38 G09091	59.3	59.1	54.7	56.3	54.1	53.6
39 G09080	59.2	58.9	55.7	56.5	54.8	53.3
40 G09138	60.6	58.8	57.7	56.3	56.7	46.1
41 F/G921188E43	60.0	56.4	59.0	55.9	56.4	51.6
42 MDV71-19	59.1	55.6	59.3	56.0	55.9	54.2
43 MDV26-30	58.1	55.6	58.6	54.0	54.6	
LOCATION MEANS	59.7	58.4	58.7	56.2	55.8	53.8

TEST WEIGHT (lbs/bu)

		Overton TX	Prosper TX	Blacksburg VA	Warsaw VA	ENTRY MEANS ALL LOCATIONS	rank
1	Coker 9835	61.0	54.9	55.7	52.9	56.6	33
2	Coker 9663	61.0	58.0	61.4	55.7	58.3	12
3	Mason	60.0	53.7	57.9	53.9	56.6	34
4	AGS2000	63.0	56.7	59.2	56.8	58.5	8
5	S9412192	60.0	55.2	58.4	53.8	56.6	36
6	LA90518PB43-3-1-4	61.0	55.6	58.2	54.8	56.6	32
7	LA90185G3-1-3-4-2	62.0	55.8	58.5	54.5	57.1	21
8	VA98W-593	63.0	58.1	60.9	59.4	60.0	1
9	NC96-13155	62.0	58.1	59.2	57.8	59.4	2
10	NC96-13965	60.0	56.9	58.6	57.3	58.4	11
11	B950943	59.0	55.2	57.1	53.4	57.0	24
12	TX96D1320	59.0	53.7	59.3	53.4	56.4	39
13	TX97D6737	59.0	55.3	56.8	52.5	56.5	37
14	TX91-57	61.0	55.2	57.3	52.0	56.7	31
15	AR839-27-1-3	60.0	56.2	58.9	56.3	58.4	10
16	AR839-25-8-2	60.0	55.4	58.7	56.7	57.9	17
17	AR-LA85411	61.0	55.7	59.5	58.9	58.8	7
18	LA9397D5-3-3	60.0	54.3	57.5	52.9	57.1	22
19	TX98D2106	60.0	55.9	56.5	53.8	56.9	25
20	GF90524E1	60.0	56.3	56.0	53.3	56.9	26
21	GF92485E15	62.0	58.7	60.6	58.1	59.3	3
22	GF921221E16	60.0	52.8	57.0	52.7	56.1	40
23	NC96-13156	62.0	58.2	59.2	56.2	59.1	5
24	AW-D97-6075	61.0	57.3	59.8	53.4	58.4	9
25	AW-D97*6940	62.0	57.1	59.3	53.1	58.2	13
26	AW-D97*6961	63.0	57.0	58.5	55.7	58.1	15
27	AW-D97-6740	62.0	57.7	58.5	57.5	59.1	4
28	VA98W-591	63.0	57.8	58.7	55.9	59.1	6
29	VA99W-200	62.0	55.3	58.0	57.0	57.9	16
30	VA99W-169	59.0	53.6	55.1	53.5	55.9	41
31	TX97-167	61.0	54.2	57.6	56.0	57.7	18
32	SC952746	60.0	52.0	56.0	54.9	57.1	20
33	SC960057	55.0	48.5	54.2	51.5	53.5	43
34	B960208	60.0	53.1	56.9	53.4	56.6	35
35	B960457	58.0	53.8	56.5	53.3	55.7	42
36	B961378	61.0	55.4	59.4	55.8	58.2	14
37	G09088	60.0	63.7	56.5	51.7	56.8	30
38	G09091	60.0	52.9	56.7	55.5	56.8	29
39	G09080	60.0	53.9	55.9	54.3	56.8	27
40	G09138	61.0	54.6	57.5	56.3	57.4	19
41	F/G921188E43	59.0	52.5	58.8	54.1	57.0	23
42	MDV71-19	61.0	51.4	57.9	53.4	56.8	28
43	MDV26-30	61.0	56.2	55.9	54.2	56.4	38
LOCATION MEANS		60.6	55.4	57.9	54.8		

KERNEL WEIGHT (grams)

		Belle Mina AL	Bay AR
		100 kw	100 kw
1	Coker 9835	3.42	2.64
2	Coker 9663	3.39	2.82
3	Mason	3.41	3.11
4	AGS2000	4.13	3.20
5	S9412192	4.13	3.34
6	LA90518PB43-3-1-4	2.86	3.01
7	LA90185G3-1-3-4-2	3.92	3.05
8	VA98W-593	3.17	2.76
9	NC96-13155	3.51	3.18
10	NC96-13965	2.79	2.83
11	B950943	3.22	3.07
12	TX96D1320	2.75	2.59
13	TX97D6737	3.44	3.07
14	TX91-57	3.37	3.01
15	AR839-27-1-3	3.38	3.18
16	AR839-25-8-2	2.90	2.64
17	AR-LA85411	3.29	3.17
18	LA9397D5-3-3	2.73	1.78
19	TX98D2106	2.80	2.57
20	GF90524E1	2.89	2.48
21	GF92485E15	3.82	3.25
22	GF921221E16	3.27	2.91
23	NC96-13156	3.27	3.32
24	AW-D97-6075	2.76	2.58
25	AW-D97*6940	3.67	3.07
26	AW-D97*6961	3.22	2.74
27	AW-D97-6740	3.30	2.56
28	VA98W-591	3.09	2.67
29	VA99W-200	3.20	3.07
30	VA99W-169	3.06	2.58
31	TX97-167	3.13	3.01
32	SC952746	3.59	3.72
33	SC960057	3.40	3.20
34	B960208	3.42	2.99
35	B960457	3.55	3.07
36	B961378	3.26	2.87
37	G09088	3.61	3.19
38	G09091	3.60	2.76
39	G09080	3.41	2.61
40	G09138	3.28	2.84
41	F/G921188E43	3.97	3.65
42	MDV71-19	2.96	2.87
43	MDV26-30	3.37	2.73
LOCATION MEANS		3.32	2.92

HEADING DATE (Julian)

	Bay AR	Keiser AR	Quincy FL	Griffin GA	Plains GA	Aberdeen ID
1 Coker 9835	114	115	90	106	97	151.3
2 Coker 9663	111	115	81	105	94	150.3
3 Mason	110	110	80	103	95	148.0
4 AGS2000	111	112	89	102	91	148.3
5 S9412192	111	112	79	105	89	149.8
6 LA90518PB43-3-1-4	111	111	81	102	90	149.0
7 LA90185G3-1-3-4-2	111	111	82	107	92	149.3
8 VA98W-593	111	112	91	105	98	147.5
9 NC96-13155	112	113	94	107	99	151.5
10 NC96-13965	112	114	98		101	153.8
11 B950943	113	115	88	108	94	151.3
12 TX96D1320	114	113	86	104	93	149.8
13 TX97D6737	111	112	81	106	94	149.0
14 TX91-57	110	106	90	101	95	148.0
15 AR839-27-1-3	114	115	95		101	152.8
16 AR839-25-8-2	111	112	91	104	99	150.8
17 AR-LA85411	111	112	90	102	96	148.5
18 LA9397D5-3-3	110	112	75	101	89	149.5
19 TX98D2106	112	112	90	105	98	148.3
20 GF90524E1	113	111	86	107	91	150.5
21 GF92485E15	111	113	82	101	93	149.0
22 GF921221E16	108	106	81	103	93	147.8
23 NC96-13156	111	112	95	108	99	151.8
24 AW-D97-6075	109	111	95	100	97	147.8
25 AW-D97*6940	111	112	85	104	95	146.8
26 AW-D97*6961	111	114	85	108	98	149.3
27 AW-D97-6740	106	107	95	100	96	146.3
28 VA98W-591	105	114	91	105	99	147.5
29 VA99W-200	109	111	78	100	89	147.8
30 VA99W-169	110	111	91	105	99	147.5
31 TX97-167	114	111	88	103	96	149.5
32 SC952746	110	111	89	106	95	149.5
33 SC960057	117	118	101		105	143.5
34 B960208	110	111	82	109	96	148.0
35 B960457	113	114	91	106	98	149.8
36 B961378	111	117	90		101	152.8
37 G09088	109	106	91	106	95	145.3
38 G09091	110	112	95	108	97	146.3
39 G09080	110	113	96		100	147.5
40 G09138	111	111	96	101	98	147.8
41 F/G921188E43	113	112	81	104	89	148.0
42 MDV71-19	109	112	97	102	97	149.3
43 MDV26-30	106	105	80	104	91	147.5
LOCATION MEANS	110.9	111.8	88.2	104.3	95.6	148.9

HEADING DATE (Julian)

	Greensburg IN	Logan Co. KY	Baton Rouge LA	Queenstown MD	Portageville MO	Cleveland MS
1 Coker 9835	133	123	98	130.3	118.3	108.1
2 Coker 9663	132	120	97	129.3	118.0	108.5
3 Mason	130	118	98	127.3	116.0	103.0
4 AGS2000	131	120	98	129.0	119.0	105.0
5 S9412192	131	121	96	129.0	116.0	103.0
6 LA90518PB43-3-1-4	132	122	91	128.0	118.0	103.5
7 LA90185G3-1-3-4-2	131	123	93	128.7	118.0	105.5
8 VA98W-593	131	119	97	129.0	118.3	108.5
9 NC96-13155	133	124	99	130.7	117.7	108.0
10 NC96-13965	132	122	105	130.0	118.0	109.0
11 B950943	132	124	99	130.7	118.7	108.5
12 TX96D1320	133	124	99	129.8	120.0	108.5
13 TX97D6737	132	121	98	130.4	118.7	106.7
14 TX91-57	130	119	94	126.7	117.0	103.5
15 AR839-27-1-3	134	126	101	132.0	119.7	110.5
16 AR839-25-8-2	133	121	100	130.3	119.0	107.5
17 AR-LA85411	129	118	98	128.0	118.0	103.0
18 LA9397D5-3-3	130	120	92	127.7	117.3	105.0
19 TX98D2106	131	120	99	129.0	119.0	107.0
20 GF90524E1	130	121	98	128.0	118.3	106.7
21 GF92485E15	130	120	98	127.7	118.0	104.5
22 GF921221E16	130	117	97	126.3	116.3	104.0
23 NC96-13156	131	122	100	130.3	118.0	108.5
24 AW-D97-6075	129	116	97	127.7	115.0	105.0
25 AW-D97*6940	129	120	99	127.7	118.3	105.0
26 AW-D97*6961	132	120	100	130.0	118.0	110.0
27 AW-D97-6740	129	116	97	125.7	116.0	101.2
28 VA98W-591	129	122	98	128.7	118.0	107.0
29 VA99W-200	129	118	91	127.0	117.0	104.0
30 VA99W-169	130	118	98	128.0	117.0	106.5
31 TX97-167	130	120	97	128.7	118.7	107.2
32 SC952746	131	118	97	128.3	116.3	108.5
33 SC960057	131	124	111	127.3	122.7	113.0
34 B960208	130	118	98	127.7	117.3	105.0
35 B960457	131	121	97	129.7	118.3	107.0
36 B961378	134	123	109	130.7	117.7	109.7
37 G09088	129	118	97	126.7	116.0	103.0
38 G09091	129	118	98	126.0	117.0	104.5
39 G09080	130	118	100	127.3	116.7	107.0
40 G09138	131	118	100	128.3	116.7	106.0
41 F/G921188E43	132	121	98	129.7	118.7	106.5
42 MDV71-19	131	119	102	129.0	117.0	104.0
43 MDV26-30	131	118	88	128.3	115.0	102.0
LOCATION MEANS	130.9	120.2	98.1	128.6	117.7	106.2

HEADING DATE (Julian)

	Kinston NC	Wooster OH	Clemson SC	Knoxville TN	Overton TX	Prosper TX
1 Coker 9835	104	140	112	123	99	113
2 Coker 9663	105	138	112	123	96	112
3 Mason	102	139	106	121	96	107
4 AGS2000	103	138	110	124	95	110
5 S9412192	101	142	108	124	94	112
6 LA90518PB43-3-1-4	103	139	108	125	95	108
7 LA90185G3-1-3-4-2	104	139	110	124	96	111
8 VA98W-593	106	140	112	123	96	113
9 NC96-13155	106	140	110	125	98	112
10 NC96-13965	108	142	113	126	98	113
11 B950943	105	141	113	125	97	113
12 TX96D1320	106	140	115	128	99	112
13 TX97D6737	106	139	110	125	96	113
14 TX91-57	104	138	108	124	95	109
15 AR839-27-1-3	113	143	114	126	100	116
16 AR839-25-8-2	108	140	112	125	99	111
17 AR-LA85411	105	138	113	123	96	111
18 LA9397D5-3-3	102	139	110	124	96	110
19 TX98D2106	107	139	112	125	99	113
20 GF90524E1	104	139	109	124	96	112
21 GF92485E15	103	138	109	124	96	108
22 GF921221E16	103	137	107	121	95	109
23 NC96-13156	107	141	112	121	99	112
24 AW-D97-6075	105	138	107	119	96	108
25 AW-D97*6940	104	137	111	123	96	111
26 AW-D97*6961	103	140	115	125	97	113
27 AW-D97-6740	101	136	104	120	95	104
28 VA98W-591	106	139	111	123	97	112
29 VA99W-200	103	139	104	124	93	108
30 VA99W-169	105	139	109	123	97	111
31 TX97-167	108	140	111	124	97	112
32 SC952746	104	140	112	122	95	112
33 SC960057	113	137	118	129	104	122
34 B960208	106	139	109	123	96	110
35 B960457	108	141	114	123	98	112
36 B961378	109	141	115	127	99	118
37 G09088	104	136	106	122	94	109
38 G09091	105	137	108	122	95	109
39 G09080	106	139	110	123	96	111
40 G09138	106	139	108	123	96	110
41 F/G921188E43	104	139	113	124	95	113
42 MDV71-19	104	140	107	124	96	110
43 MDV26-30	103	138	104	121	95	107
LOCATION MEANS	105.2	139.1	110.3	123.7	96.6	111.2

HEADING DATE (Julian)

		Blacksburg VA	Warsaw VA	ENTRY MEANS ALL LOCATIONS	rank
1	Coker 9835	129	123	116.3	35
2	Coker 9663	128	124	115.0	25
3	Mason	125	121	112.8	5
4	AGS2000	126	121	114.1	14
5	S9412192	127	123	113.6	11
6	LA90518PB43-3-1-4	127	123	113.3	9
7	LA90185G3-1-3-4-2	128	122	114.3	17
8	VA98W-593	127	122	115.3	29
9	NC96-13155	129	125	116.7	39
10	NC96-13965	129	124	118.3	40
11	B950943	129	124	116.5	37
12	TX96D1320	129	125	116.4	36
13	TX97D6737	127	124	115.0	26
14	TX91-57	124	121	113.2	8
15	AR839-27-1-3	133	126	119.6	42
16	AR839-25-8-2	129	124	116.3	34
17	AR-LA85411	127	123	114.5	18
18	LA9397D5-3-3	127	121	112.9	7
19	TX98D2106	127	123	115.8	31
20	GF90524E1	126	122	114.6	21
21	GF92485E15	126	123	113.7	12
22	GF921221E16	125	119	112.3	4
23	NC96-13156	129	124	116.6	38
24	AW-D97-6075	126	121	113.5	10
25	AW-D97*6940	126	121	114.1	13
26	AW-D97*6961	125	123	115.8	32
27	AW-D97-6740	123	119	111.9	2
28	VA98W-591	129	123	115.2	27
29	VA99W-200	127	119	111.9	3
30	VA99W-169	127	121	114.7	22
31	TX97-167	128	123	115.3	28
32	SC952746	125	122	114.6	20
33	SC960057	123	123	120.1	43
34	B960208	127	121	114.1	16
35	B960457	129	123	116.2	33
36	B961378	130	125	118.9	41
37	G09088	124	119	112.8	6
38	G09091	125	121	114.1	15
39	G09080	127	121	115.7	30
40	G09138	126	122	114.7	23
41	F/G921188E43	128	122	114.5	19
42	MDV71-19	127	122	114.9	24
43	MDV26-30	126	119	111.4	1
LOCATION MEANS		127.0	122.3		

HEIGHT (inches)

	Belle Mina AL	Bay AR	DeWitt AR	Keiser AR	Quincy FL	Griffin GA
1 Coker 9835	26	29	35.0	26	45	32
2 Coker 9663	34	34	39.0	33	36	44
3 Mason	29	32	36.0	31	39	37
4 AGS2000	31	32	36.5	30	37	38
5 S9412192	34	34	38.5	30	36	34
6 LA90518PB43-3-1-4	31	28	39.5	29	37	37
7 LA90185G3-1-3-4-2	31	29	38.5	31	37	35
8 VA98W-593	29	27	32.0	29	36	34
9 NC96-13155	29	27	37.5	31	38	35
10 NC96-13965	28	29	35.5	27	36	30
11 B950943	28	29	36.0	29	38	34
12 TX96D1320	26	24	32.0	31	32	30
13 TX97D6737	27	28	37.5	30	35	34
14 TX91-57	32	33	37.5	29	40	37
15 AR839-27-1-3	33	36	37.5	34	42	37
16 AR839-25-8-2	31	34	35.0	30	40	38
17 AR-LA85411	31	33	36.5	29	39	38
18 LA9397D5-3-3	29	30	32.5	27	30	34
19 TX98D2106	30	31	38.0	31	39	37
20 GF90524E1	26	29	32.0	26	35	35
21 GF92485E15	31	32	38.0	31	36	37
22 GF921221E16	32	32	37.0	28	35	35
23 NC96-13156	29	31	35.0	29	36	33
24 AW-D97-6075	29	33	35.5	29	37	37
25 AW-D97*6940	31	32	38.0	32	35	35
26 AW-D97*6961	28	30	36.5	30	36	34
27 AW-D97-6740	29	29	34.5	31	40	36
28 VA98W-591	29	30	33.0	26	34	33
29 VA99W-200	29	30	36.0	29	33	37
30 VA99W-169	29	31	36.0	28	37	38
31 TX97-167	32	30	38.0	30	38	42
32 SC952746	37	35	38.5	34	34	43
33 SC960057	33	32	43.5	34	40	40
34 B960208	32	32	39.0	30	38	38
35 B960457	31	30	38.5	30	41	42
36 B961378	29	29	37.5	31	36	34
37 G09088	33	32	40.5	31	40	38
38 G09091	32	31	40.5	33	42	37
39 G09080	34	32	41.0	33	42	34
40 G09138	31	30	38.5	31		38
41 F/G921188E43	29	32	37.0	29		36
42 MDV71-19	28	30	35.5	25		33
43 MDV26-30	31	32	36.0	31		32
LOCATION MEANS	30.3	30.8	36.9	30.0	37.4	36.1

HEIGHT (inches)

	Plains GA	Aberdeen ID	Logan Co. KY	Baton Rouge LA	Queenstown MD	Portageville MO
1 Coker 9835	31	29.0	31	34	34.3	28
2 Coker 9663	35	35.3	33	40	42.0	36
3 Mason	36	35.3	34	40	38.3	34
4 AGS2000	35	31.8	29	39	36.3	32
5 S9412192	36	34.5	34	38	37.7	33
6 LA90518PB43-3-1-4	33	29.0	34	38	36.3	31
7 LA90185G3-1-3-4-2	37	32.0	34	39	38.0	33
8 VA98W-593	32	30.0	34	36	35.3	30
9 NC96-13155	35	29.3	31	35	36.0	30
10 NC96-13965	32	29.8	31	37	34.7	29
11 B950943	34	31.8	33	37	36.3	30
12 TX96D1320	31	27.8	30	33	32.0	25
13 TX97D6737	31	31.0	35	36	35.4	29
14 TX91-57	38	31.5	31	39	37.7	32
15 AR839-27-1-3	38	30.0	36	41	39.0	35
16 AR839-25-8-2	38	31.5	39	39	37.7	32
17 AR-LA85411	35	26.5	33	40	39.0	34
18 LA9397D5-3-3	30	26.5	34	35	32.7	31
19 TX98D2106	35	29.8	35	39	37.0	31
20 GF90524E1	32	29.3	31	34	32.0	27
21 GF92485E15	38	30.5	33	40	36.7	32
22 GF921221E16	37	31.0	36	39	35.3	34
23 NC96-13156	35	30.8	30	37	36.3	31
24 AW-D97-6075	35	29.8	32	38	35.7	33
25 AW-D97*6940	34	30.3	35	37	36.0	34
26 AW-D97*6961	32	30.5	33	37	35.0	29
27 AW-D97-6740	35	27.8	31	37	36.3	29
28 VA98W-591	32	27.0	32	35	33.7	31
29 VA99W-200	32	28.3	36	37	36.3	30
30 VA99W-169	36	28.3	32	38	35.3	32
31 TX97-167	37	29.0	38	41	40.0	31
32 SC952746	41	37.0	34	45	44.7	38
33 SC960057	38	29.8	34	40	39.3	33
34 B960208	36	30.0	34	38	39.7	35
35 B960457	35	33.8	36	41	40.7	34
36 B961378	33	30.5	35	36	34.7	30
37 G09088	37	35.3	33	42	40.3	35
38 G09091	38	33.0	34	43	38.3	35
39 G09080	37	34.0	38	42	39.7	34
40 G09138	36	32.0	35	40	37.7	33
41 F/G921188E43	35	35.0	31	37	37.7	33
42 MDV71-19	34	27.3	35	35	33.7	32
43 MDV26-30	34	30.3	33	39	30.7	33
LOCATION MEANS	34.9	30.7	33.5	38.2	36.8	31.9

HEIGHT (inches)

	Cleveland MS	Kinston NC	Wooster OH	Clemson SC	Florence SC	Overton TX
1 Coker 9835	33.5	30	35.5	28.0	29.0	31
2 Coker 9663	42.0	34	41.0	32.0	36.5	37
3 Mason	38.5	32	40.2	34.5	34.0	36
4 AGS2000	38.0	34	39.4	29.5	33.5	38
5 S9412192	40.0	33	35.9	29.5	30.0	40
6 LA90518PB43-3-1-4	38.0	29	40.2	28.5	36.0	36
7 LA90185G3-1-3-4-2	36.5	32	40.6	30.0	32.5	37
8 VA98W-593	34.5	31	35.1	25.5	30.0	33
9 NC96-13155	33.5	31	37.4	29.0	31.0	34
10 NC96-13965	33.5	29	38.2	29.0	30.5	32
11 B950943	37.0	31	40.2	32.5	31.0	34
12 TX96D1320	33.0	25	33.1	21.0	25.0	27
13 TX97D6737	36.5	28	38.6	31.0	28.5	32
14 TX91-57	36.5	36	41.4	29.0	34.0	37
15 AR839-27-1-3	40.5	31	41.8	35.0	33.0	35
16 AR839-25-8-2	37.0	32	41.4	31.0	30.0	40
17 AR-LA85411	37.5	35	36.6	29.0	33.0	34
18 LA9397D5-3-3	35.0	30	36.6	29.0	27.5	31
19 TX98D2106	37.5	31	39.4	31.0	31.0	33
20 GF90524E1	32.0	31	35.9	26.5	30.0	32
21 GF92485E15	37.0	33	41.8	29.0	31.5	36
22 GF921221E16	36.0	36	38.6	30.5	30.0	36
23 NC96-13156	32.5	30	38.2	27.5	30.0	33
24 AW-D97-6075	37.0	31	38.6	29.0	29.5	34
25 AW-D97*6940	39.0	32	38.2	30.0	32.5	35
26 AW-D97*6961	35.5	33	39.0	28.0	32.5	35
27 AW-D97-6740	37.5	34	37.0	31.0	31.5	35
28 VA98W-591	34.5	30	35.9	28.0	31.5	32
29 VA99W-200	35.0	32	36.6	29.0	32.0	35
30 VA99W-169	37.5	33	36.2	30.5	33.5	34
31 TX97-167	37.0	33	39.4	30.5	35.5	36
32 SC952746	43.0	37	41.0	34.0	34.0	40
33 SC960057	43.5	33	37.4	32.0	35.5	36
34 B960208	40.5	31	39.0	33.0	33.5	34
35 B960457	40.5	35	40.6	31.5	35.5	36
36 B961378	38.0	29	37.8	30.5	29.5	33
37 G09088	42.5	35	41.4	33.0	33.0	37
38 G09091	42.5	35	41.4	34.0	32.0	37
39 G09080	42.0	35	41.0	35.0	36.5	37
40 G09138	40.5	31	38.6	33.0	30.0	35
41 F/G921188E43	37.5	35	40.6	28.5	34.0	39
42 MDV71-19	35.0	31	36.2	29.0	30.0	33
43 MDV26-30	35.5	37	41.8	31.5	32.5	36
LOCATION MEANS	37.4	32.2	38.7	30.2	31.9	35.0

HEIGHT (inches)

		Prosper TX	Blacksburg VA	Warsaw VA	ENTRY MEANS ALL LOCATIONS	rank
1	Coker 9835	26.7	23	32	30.9	39
2	Coker 9663	32.0	32	37	36.4	3
3	Mason	31.7	25	36	34.7	11
4	AGS2000	28.3	25	33	33.6	21
5	S9412192	28.0	28	34	34.2	15
6	LA90518PB43-3-1-4	28.7	27	32	33.2	25
7	LA90185G3-1-3-4-2	29.3	27	36	34.1	17
8	VA98W-593	27.3	23	31	31.2	37
9	NC96-13155	28.7	23	32	32.1	33
10	NC96-13965	29.0	22	31	31.1	38
11	B950943	30.7	23	34	32.8	28
12	TX96D1320	25.0	21	27	28.1	43
13	TX97D6737	28.7	23	34	31.9	35
14	TX91-57	30.0	25	32	34.2	14
15	AR839-27-1-3	31.3	31	39	36.0	6
16	AR839-25-8-2	29.0	27	37	34.7	10
17	AR-LA85411	29.0	26	34	33.7	19
18	LA9397D5-3-3	27.7	22	31	30.5	41
19	TX98D2106	31.3	26	32	33.6	23
20	GF90524E1	26.7	21	29	30.1	42
21	GF92485E15	31.3	25	33	33.9	18
22	GF921221E16	31.3	23	35	33.7	20
23	NC96-13156	29.7	24	32	31.9	34
24	AW-D97-6075	29.7	24	34	32.9	27
25	AW-D97*6940	30.7	26	33	33.6	22
26	AW-D97*6961	29.7	25	33	32.5	31
27	AW-D97-6740	30.3	24	33	32.8	29
28	VA98W-591	26.7	24	30	30.9	40
29	VA99W-200	27.7	25	32	32.3	32
30	VA99W-169	29.3	26	33	33.0	26
31	TX97-167	29.3	30	35	34.8	9
32	SC952746	30.3	31	38	37.6	1
33	SC960057	35.7	25	34	35.7	8
34	B960208	30.0	23	34	34.3	13
35	B960457	31.7	30	36	35.7	7
36	B961378	31.3	27	32	32.6	30
37	G09088	35.0	31	38	36.3	4
38	G09091	33.7	29	37	36.1	5
39	G09080	33.7	31	37	36.6	2
40	G09138	33.0	30	35	34.4	12
41	F/G921188E43	32.0	30	34	34.1	16
42	MDV71-19	25.7	25	32	31.3	36
43	MDV26-30	33.0	24	37	33.5	24
LOCATION MEANS		30.0	25.9	33.7		

LODGING

	Belle Mina AL	Keiser AR	Quincy FL	Griffin GA	Plains GA	Greensburg IN
	0-9	0-9	0-9	%	%	1-9
1 Coker 9835	0	0	0.1	5	0	1
2 Coker 9663	0	0	3.7	10	5	1
3 Mason	0	0	1.0	10	5	1
4 AGS2000	0	0	1.3	5	0	1
5 S9412192	0	1	1.0	0	0	1
6 LA90518PB43-3-1-4	0	0	1.0	5	0	1
7 LA90185G3-1-3-4-2	0	0	1.3	5	0	1
8 VA98W-593	0	0	1.3	5	5	1
9 NC96-13155	0	0	0.7	0	0	1
10 NC96-13965	0	0	2.7	0	5	6
11 B950943	0	0	1.3	0	5	1
12 TX96D1320	0	0	0.0	0	0	1
13 TX97D6737	0	0	2.0	5	5	1
14 TX91-57	0	0	3.0	0	5	1
15 AR839-27-1-3	0	0	1.0	0	0	1
16 AR839-25-8-2	0	0	0.0	5	0	1
17 AR-LA85411	0	0	0.7	0	0	1
18 LA9397D5-3-3	0	0	0.0	10	0	1
19 TX98D2106	0	0	2.3	5	5	1
20 GF90524E1	0	0	2.0	20	0	1
21 GF92485E15	0	0	1.7	5	5	1
22 GF921221E16	0	0	2.3	5	5	1
23 NC96-13156	0	0	2.3	5	0	1
24 AW-D97-6075	0	0	1.3	20	5	1
25 AW-D97*6940	0	0	3.7	10	5	1
26 AW-D97*6961	0	0	0.0	5	0	1
27 AW-D97-6740	0	0	1.7	20	5	1
28 VA98W-591	0	0	0.0	10	0	1
29 VA99W-200	0	0	0.3	10	0	1
30 VA99W-169	0	0	0.7	10	0	1
31 TX97-167	0	0	3.7	80	10	2
32 SC952746	0	1	3.3	30	5	3
33 SC960057	0	1	1.0	5	0	1
34 B960208	0	0	2.0	5	5	3
35 B960457	0	0	2.7	10	5	1
36 B961378	0	0	2.0	0	5	2
37 G09088	0	0	1.3	5	10	3
38 G09091	0	0	0.3	0	5	3
39 G09080	0	0	1.7	5	5	3
40 G09138	0	0	0.3	10	5	2
41 F/G921188E43	0	0	1.3	10	5	2
42 MDV71-19	0	0	3.3	40	5	1
43 MDV26-30	0	0	3.7	5	5	1
LOCATION MEANS	0.0	0.1	1.6	9.2	3.1	1.4

LODGING

	Hopkinsville IN	Logan Co. KY	Baton Rouge LA	Queenstown MD	Portageville MO	Cleveland MS
	0-9	0-9	0-9	0-9	0-9	0-9
1 Coker 9835	0.0	4	1.0	1.1	1.7	0.0
2 Coker 9663	1.0	9	3.0	1.6	2.3	0.0
3 Mason	0.5	9	2.5	0.9	2.3	0.0
4 AGS2000	0.0	9	2.0	0.9	1.0	0.0
5 S9412192	1.0	5	2.5	1.6	0.7	0.0
6 LA90518PB43-3-1-4	0.0	8	3.5	1.0	0.0	0.0
7 LA90185G3-1-3-4-2	0.0	4	2.5	1.3	0.7	3.0
8 VA98W-593	0.0	7	1.5	1.0	2.0	0.0
9 NC96-13155	0.0	5	1.0	1.9	1.3	0.0
10 NC96-13965	2.5	9	2.0	2.0	2.3	0.0
11 B950943	0.0	0	1.5	1.1	1.3	0.0
12 TX96D1320	0.0	0	6.0	1.0	0.0	0.0
13 TX97D6737	2.0	0	4.0	1.1	2.0	5.0
14 TX91-57	1.0	9	5.0	1.4	0.7	3.0
15 AR839-27-1-3	0.0	0	1.0	1.1	0.0	0.0
16 AR839-25-8-2	0.0	0	1.0	1.1	0.0	0.0
17 AR-LA85411	0.0	0	1.0	1.1	0.0	0.0
18 LA9397D5-3-3	0.0	4	1.5	1.1	0.7	0.0
19 TX98D2106	0.0	0	2.0	1.5	0.7	3.0
20 GF90524E1	0.0	4	1.5	1.0	0.3	0.0
21 GF92485E15	0.0	2	2.0	1.9	0.0	0.0
22 GF921221E16	0.0	4	2.0	0.9	0.3	0.0
23 NC96-13156	0.0	5	1.5	1.0	1.3	0.0
24 AW-D97-6075	0.0	4	1.5	1.4	2.3	2.0
25 AW-D97*6940	0.0	8	2.0	1.0	0.0	3.0
26 AW-D97*6961	0.0	0	2.0	1.6	0.3	0.0
27 AW-D97-6740	1.0	7	2.0	1.6	2.0	0.0
28 VA98W-591	0.0	9	2.0	1.1	0.3	0.0
29 VA99W-200	0.0	6	2.5	3.3	0.7	0.0
30 VA99W-169	0.0	6	2.0	1.7	0.3	0.0
31 TX97-167	0.0	0	4.5	1.7	0.7	3.0
32 SC952746	0.5	7	1.0	1.0	0.3	0.0
33 SC960057	2.5	5	1.0	1.0	0.3	3.0
34 B960208	1.5	4	4.5	1.1	2.3	3.3
35 B960457	0.0	0	2.0	1.9	2.7	0.0
36 B961378	0.0	0	1.0	1.3	0.7	0.0
37 G09088	1.0	4	2.5	2.0	3.0	0.0
38 G09091	0.0	9	2.0	1.0	1.7	0.0
39 G09080	0.0	2	2.0	1.6	1.7	0.0
40 G09138	0.0	1	1.5	1.3	2.0	0.0
41 F/G921188E43	0.0	6	2.5	1.0	0.7	0.0
42 MDV71-19	1.0	9	1.5	0.0	2.0	0.0
43 MDV26-30	1.0	7	2.5	0.0	2.3	0.0
LOCATION MEANS	0.4	4.4	2.2	1.3	1.1	0.7

LODGING

	Wooster OH	Knoxville TN	Prosper TX	Blacksburg VA	Blacksburg VA Belgian	Warsaw VA
	1-5	0-9	0-9	0-9	0.2-10	0-9
1 Coker 9835	1.0	0.0	2.6	0	0.2	0
2 Coker 9663	1.0	1.0	4.0	3	2.4	1
3 Mason	1.0	0.0	1.4	0	0.8	0
4 AGS2000	1.0	0.0	4.6	0	1.2	0
5 S9412192	1.0	0.0	2.0	0	0.2	2
6 LA90518PB43-3-1-4	1.0	0.0	0.0	0	0.2	0
7 LA90185G3-1-3-4-2	1.0	0.0	3.4	0	0.6	1
8 VA98W-593	1.0	0.0	5.4	0	0.2	0
9 NC96-13155	1.0	0.0	4.0	0	0.2	1
10 NC96-13965	1.0	0.0	6.0	0	0.2	1
11 B950943	1.0	0.0	0.3	0	0.2	0
12 TX96D1320	1.0	0.0	0.0	0	0.2	0
13 TX97D6737	1.0	0.0	0.0	0	0.2	0
14 TX91-57	1.0	0.0	6.0	0	0.2	5
15 AR839-27-1-3	1.0	0.0	0.6	0	0.2	0
16 AR839-25-8-2	1.0	0.0	0.6	0	0.2	0
17 AR-LA85411	1.0	0.0	0.6	0	0.2	0
18 LA9397D5-3-3	1.0	0.0	2.0	0	0.2	0
19 TX98D2106	1.0	0.0	2.0	0	0.2	3
20 GF90524E1	1.0	0.0	2.6	0	0.2	3
21 GF92485E15	1.0	0.0	2.0	0	0.2	2
22 GF921221E16	1.0	0.0	5.4	0	0.2	2
23 NC96-13156	1.0	0.0	5.4	0	0.2	1
24 AW-D97-6075	1.0	0.0	2.0	0	0.2	0
25 AW-D97*6940	1.0	0.0	0.6	0	0.2	5
26 AW-D97*6961	1.0	0.0	3.4	0	0.4	2
27 AW-D97-6740	1.0	0.8	8.0	0	0.4	1
28 VA98W-591	1.0	0.0	6.6	2	2.4	0
29 VA99W-200	1.0	0.0	6.6	0	1.2	0
30 VA99W-169	1.0	0.0	3.4	1	1.2	4
31 TX97-167	1.7	0.0	0.0	3	4.8	2
32 SC952746	1.3	1.0	2.6	0	0.2	4
33 SC960057	1.3	0.0	5.4	0	0.2	4
34 B960208	3.0	0.0	0.0	0	1.6	0
35 B960457	1.0	0.0	4.6	2	2.4	1
36 B961378	1.0	0.0	2.0	0	1.2	0
37 G09088	1.0	0.0	0.6	0	2.4	2
38 G09091	1.0	0.0	4.6	0	0.2	0
39 G09080	1.0	0.0	2.6	0	0.8	0
40 G09138	1.0	0.0	4.6	0	0.2	0
41 F/G921188E43	1.0	0.0	2.0	0	1.2	2
42 MDV71-19	1.0	0.2	2.6	0	0.4	1
43 MDV26-30	1.0	0.0	6.0	0	1.2	3
LOCATION MEANS	1.1	0.1	2.6	0.3	0.7	1.2

LODGING

		Warsaw VA Belgian 0.2-10
1	Coker 9835	4.7
2	Coker 9663	5.5
3	Mason	7.2
4	AGS2000	7.3
5	S9412192	5.9
6	LA90518PB43-3-1-4	5.4
7	LA90185G3-1-3-4-2	7.7
8	VA98W-593	6.1
9	NC96-13155	8.3
10	NC96-13965	7.5
11	B950943	3.6
12	TX96D1320	2.1
13	TX97D6737	5.4
14	TX91-57	8.3
15	AR839-27-1-3	2.1
16	AR839-25-8-2	1.9
17	AR-LA85411	6.6
18	LA9397D5-3-3	5.9
19	TX98D2106	8.0
20	GF90524E1	7.7
21	GF92485E15	5.9
22	GF921221E16	7.7
23	NC96-13156	7.5
24	AW-D97-6075	6.3
25	AW-D97*6940	8.3
26	AW-D97*6961	6.4
27	AW-D97-6740	7.5
28	VA98W-591	8.3
29	VA99W-200	6.7
30	VA99W-169	8.0
31	TX97-167	8.0
32	SC952746	6.4
33	SC960057	9.3
34	B960208	5.6
35	B960457	7.1
36	B961378	5.5
37	G09088	7.7
38	G09091	7.3
39	G09080	6.7
40	G09138	6.7
41	F/G921188E43	7.2
42	MDV71-19	5.9
43	MDV26-30	6.5
	LOCATION MEANS	6.5

WINTER KILL

	Belle Mina AL	Bay AR	Logan Co. KY	Portageville MO
	0-9	1-9	% survival	% survival
1 Coker 9835	0	4.3	100	71
2 Coker 9663	0	4.0	100	73
3 Mason	0	4.3	100	79
4 AGS2000	0	4.3	100	80
5 S9412192	0	3.7	100	80
6 LA90518PB43-3-1-4	0	4.3	100	73
7 LA90185G3-1-3-4-2	0	4.7	100	74
8 VA98W-593	0	4.7	100	79
9 NC96-13155	0	4.3	100	83
10 NC96-13965	0	4.7	100	72
11 B950943	0	3.7	100	74
12 TX96D1320	0	3.7	100	61
13 TX97D6737	0	2.7	100	71
14 TX91-57	0	4.7	100	82
15 AR839-27-1-3	0	3.0	100	78
16 AR839-25-8-2	0	3.3	100	76
17 AR-LA85411	0	4.7	100	82
18 LA9397D5-3-3	0	3.7	100	77
19 TX98D2106	0	3.0	100	76
20 GF90524E1	0	4.3	100	79
21 GF92485E15	0	4.3	100	80
22 GF921221E16	0	3.3	100	81
23 NC96-13156	0	4.0	100	86
24 AW-D97-6075	0	4.0	100	83
25 AW-D97*6940	0	4.0	100	85
26 AW-D97*6961	0	4.3	100	77
27 AW-D97-6740	0	4.7	100	80
28 VA98W-591	0	4.3	100	77
29 VA99W-200	0	4.0	100	75
30 VA99W-169	0	3.3	100	80
31 TX97-167	0	4.7	100	67
32 SC952746	0	3.7	100	80
33 SC960057	0	4.0	100	72
34 B960208	0	3.0	100	81
35 B960457	0	3.7	100	78
36 B961378	0	3.0	100	81
37 G09088	0	4.0	100	75
38 G09091	0	3.7	100	80
39 G09080	0	4.0	100	75
40 G09138	0	3.7	100	79
41 F/G921188E43	0	4.0	100	75
42 MDV71-19	0	3.0	100	83
43 MDV26-30	0	4.0	100	84
LOCATION MEANS	0	3.9	100	77.5

LEAF RUST

	Belle Mina AL	Fayetteville AR	Kibler AR	Plains GA	Logan Co. KY	St. Paul MN
		%	%	0-9		sev/reaction
1 Coker 9835	4	70	5	9	0	TR
2 Coker 9663	0	23	1	8	0	TR
3 Mason	0	23	4	4	T	TMS-S
4 AGS2000	0	5	0	0	0	TR
5 S9412192	4	23	8	6	0	---
6 LA90518PB43-3-1-4	0	1	0	0	0	TR
7 LA90185G3-1-3-4-2	3	40	60	8	0	TMR
8 VA98W-593	0	50	50	4	T	TR
9 NC96-13155	0	30	4	5	T	TR
10 NC96-13965	0	30	0	4	-	TR
11 B950943	0	11	0	5	0	TR
12 TX96D1320	3	23	1	8	-	TR
13 TX97D6737	0	50	50	9	T	TR
14 TX91-57	0	19	0	0	-	5MR-MS
15 AR839-27-1-3	0	33	1	7	T	20S
16 AR839-25-8-2	0	30	1	7	T	20S
17 AR-LA85411	0	0	0	1	-	TR
18 LA9397D5-3-3	0	23	1	8	-	TR
19 TX98D2106	0	15	11	8	-	5MS-S
20 GF90524E1	0	30	1	9	0	TR
21 GF92485E15	0	30	4	4	T	TR
22 GF921221E16	0	15	0	2	-	TMR
23 NC96-13156	0	19	0	6	0	TR
24 AW-D97-6075	0	5	1	9	-	TMS-S
25 AW-D97*6940	0	15	0	5	-	TMS-S
26 AW-D97*6961	0	11	0	3	0	TR
27 AW-D97-6740	0	33	0	8	T	TR
28 VA98W-591	0	11	62	1	T	TR
29 VA99W-200	0	5	8	4	-	20S
30 VA99W-169	0	7	15	8	-	20S
31 TX97-167	0	5	0	7	T	TR-MR
32 SC952746	0	0	0	1	T	TMR
33 SC960057	0	4	0	0	-	TR-MR
34 B960208	0	8	0	7	0	40S
35 B960457	0	2	0	1	0	30MS-S
36 B961378	0	11	4	7	0	TR
37 G09088	1	30	85	9	T	30S
38 G09091	0	40	50	5	0	30S
39 G09080	0	40	23	7	0	20A
40 G09138	0	5	1	6	T	30S
41 F/G921188E43	0	11	4	4	-	10MR-MS
42 MDV71-19	0	11	0	2	-	TR
43 MDV26-30	0	33	82	6	-	20S

LOCATION MEANS 0.3 20.5 12.5 5.2
GROWTH STAGE / DATE 5/23/01 5/18/01

LEAF RUST

	Beeville TX	Blacksburg VA	Blacksburg VA
	reaction	MCRQ	TLGG
1 Coker 9835	R	0;	3S
2 Coker 9663	R	0;	0;
3 Mason	R	0;	23MS
4 AGS2000	MR	;1	0;
5 S9412192	R	;2	0;
6 LA90518PB43-3-1-4	R	;1	23;
7 LA90185G3-1-3-4-2	MS	0;	3S
8 VA98W-593	MR	0;	0;
9 NC96-13155	MR	0;	;12
10 NC96-13965	MR	0;	;12
11 B950943	R	0;	0;
12 TX96D1320	R	0;	;1
13 TX97D6737	R	0;	0;
14 TX91-57	MS	;23	2;
15 AR839-27-1-3	MR	3S	;2
16 AR839-25-8-2	MR	3S	12;
17 AR-LA85411	R	;12-	23
18 LA9397D5-3-3	R	0;	3S
19 TX98D2106	R	0;	3S
20 GF90524E1	R	0;	0;
21 GF92485E15	R	0;	0;
22 GF921221E16	R	23	23
23 NC96-13156	MR	0;	;12
24 AW-D97-6075	R	3S	3S
25 AW-D97*6940	R	0;	3S
26 AW-D97*6961	R	;12	0;
27 AW-D97-6740	MR	3S	3;
28 VA98W-591	R	0;	0;
29 VA99W-200	R	;2	12
30 VA99W-169	MR	;23	3S
31 TX97-167	MR	23	3S
32 SC952746	R	;1	;2
33 SC960057	R	23	3S
34 B960208	MR	0;	;23
35 B960457	R	0;	0;
36 B961378	MR	0;	3S
37 G09088	R	23	23
38 G09091	R	23	3S
39 G09080	MR	23	3S
40 G09138	MR	23	0;
41 F/G921188E43	R	0;	0;
42 MDV71-19	MR	;1	0;
43 MDV26-30	MR	0;	3S

LOCATION MEANS

GROWTH STAGE / DATE

greenhouse greenhouse

LEAF RUST

St. Paul
MN

Reactions produced by NA race*

	CBGJ	CDBD	LBBR	CLLR	FBRP	MBRK	TLGF	TLGJ	SCJF	Postulated Genes***
1 Coker 9835	:	:	:	:	:	:	3	3	:	2a,9,11,
2 Coker 9663	:	:	:	:	:	:	:	3	:	9,10,11
3 Mason	:	:	:	:	:	:	3	3	:	9,11,+
4 AGS2000	;1cn	:	:	:	:	;1c	:	:	:	+
5 S9412192	:	:	:	:	:	;2	;3	:	:	+
6 LA90518PB43-3-1-4	;1c	;1c	:	:	:	;1c	:	;1c	;1c	+
7 LA90185G3-1-4-2	:	:	:	3	:	:	:	3	:	9,10,+
8 VA98W-593	:	:	:	;1c	:	:	:	:	:	+
9 NC96-13155	:	:	:	:	:	:	:	2c;	;1c	+
10 NC96-13965	:	:	:	:	:	:	:	2c;	;1c	+
11 B950943	:	:	:	:	:	:	:	;1c2	:	+
12 TX96D1320	:	:	:	3-;	:	:	:	3	:	9,10,+
13 TX97D6737	:	:	:	;1c	:	:	:	3	:	9,10,+
14 TX91-57	;2c	;1c	:	:	2c;	3	;1c	2c;	;2c	10,11,18
15 AR839-27-13	:	:	;1c	:	:	3	3;	3	3-;	1,3,10,11,+
16 AR839-25-8-2	;3	:	:	:	:	3	;1c	3-;	3-;	1,3,10,11,+
17 AR-LA85411	;1cn	;1c	:	:	;1c	;1c	:	;1c	;1c	+
18 LA9397D5-3-3	:	:	:	:	:	:	3-;	3	3	2a,11,+
19 TX98D2106	:	:	:	:	:	:	3	3	;3	2a,11,+
20 GF90524E1	:	:	:	:	:	:	:	3	;1	9,10,11
21 GF92485E15	:	:	:	:	:	:	:	:	3;	+
22 GF921221E16	;2c	:	3;	3	;3;	3	3;	2c2;	2c3;	3,18,+
23 NC96-13156	:	:	:	:	:	:	:	3	:	9,10,11
24 AW-D97-6075	3	:	:	:	:	3-3;	3;	3-;	23;	11,+
25 AW-D97*6940	:	:	:	;1c	;1c	:	:	2c;	;1c	+
26 AW-D97*6961	;1c	;1c	:	:	:	:	:	:	;2c	+
27 AW-D97-6740	3	3	:	;1c-3	3	3	3	3	3	3
28 VA98W-591	:	3-2c;	:	:	:	:	:	:	:	+
29 VA99W-200	3-;	3;	:	;2c	;2c	;2	;1	3;	3	+
30 VA99W-169	3	2c;3	;2c	;2c2	;2c2	3	;3	3	3	11,+
31 TX97-167	3	;1c2	:	;1c	;1c3	3	;3	3-;	3	11,+
32 SC952746	;1cn	:	:	:	:	:	:	:	:	+
33 SC960057	3;	;2	:	:	;1c	3;2	;3	31c;	3	11,+
34 B960208	:	:	:	;3	:	:	3;	3	:	9,+
35 B960457	:	:	:	:	:	:	:	:	3	2a,11,18,+
36 B961378	:	:	:	:	:	:	3-;	3	:	9,10,11
37 G09088	3	;1c2	:	;1	3;	3	:	3	3	10,11
38 G09091	;1c-3	3-1c	3	3-;	3-;	3	3	3	3	0
39 G09080	3	3	3	3	3	3	3	3	3	0
40 G09138	2c;	:	3	;2c2	;1c	3	:	3	:	1,10,18
41 F/G921188E43	:	:	:	:	:	:	:	:	:	+
42 MDV71-19	;1c	:	:	:	:	:	:	:	;1c	+
43 MDV26-30	:	:	:	:	:	:	;3	:	:	+

* Single genes tested = *Lr1, 2a, 2c, 3, 3ka, 9, 10, 11, 14a, 16, 17, 18, 24, 26, 30, B*

**Virulence Formula:

CBGJ = 3,11,14a,18
CDBD = *Lr 3,24,14a*
LBBR = 1,10,13,B
CLLR = 3,3Ka,9,10,18,B
FBRP = 2c,3,3ka,11,14a,18,B

MBRK = 1,3,3ka,10,11,14a,18,30
TLGF = 1,2a,2c,3,9,11,14a,18
TLGJ = 1,2a,2c,3,10,11,14a
SCJF = 1,2a,2c,11,14a,17,18,26

*** + = *Lr* gene(s) present but unable to identify with these *Lr* virulence combinations

STEM RUST

St. Paul
MN

		sev/reaction
1	Coker 9835	TR
2	Coker 9663	TR
3	Mason	30MS-S
4	AGS2000	10MR-MS
5	S9412192	---
6	LA90518PB43-3-1-4	TR
7	LA90185G3-1-3-4-2	40MS-S
8	VA98W-593	5R-MR
9	NC96-13155	TR
10	NC96-13965	TR
11	B950943	TR
12	TX96D1320	TR
13	TX97D6737	TR
14	TX91-57	40MS-S
15	AR839-27-1-3	60S
16	AR839-25-8-2	60S
17	AR-LA85411	10MR-MS
18	LA9397D5-3-3	TMR-MS
19	TX98D2106	20MS-S
20	GF90524E1	TMR
21	GF92485E15	20R-MR
22	GF921221E16	30S
23	NC96-13156	TR-MR
24	AW-D97-6075	30MS-S
25	AW-D97*6940	30MS-S
26	AW-D97*6961	10R-MR
27	AW-D97-6740	TR
28	VA98W-591	5MR-MS
29	VA99W-200	40S
30	VA99W-169	60S
31	TX97-167	40S
32	SC952746	10MS-S
33	SC960057	5R-MR
34	B960208	60S
35	B960457	40MS-S
36	B961378	10MS-S
37	G09088	40S
38	G09091	60S
39	G09080	40S
40	G09138	60S
41	F/G921188E43	20MR-MS
42	MDV71-19	TR
43	MDV26-30	30MS-S

STRIPE RUST

	Fayetteville AR	Cleveland MS	Beeville TX
	%	1-9	reaction
1 Coker 9835	40	3.0	S
2 Coker 9663	23	1.0	MS
3 Mason	4	1.0	MR
4 AGS2000	23	3.0	MR
5 S9412192	23	7.0	MS
6 LA90518PB43-3-1-4	0	1.0	R
7 LA90185G3-1-3-4-2	30	7.0	MS
8 VA98W-593	19	2.0	S
9 NC96-13155	33	3.0	S
10 NC96-13965	50	6.0	S
11 B950943	4	3.0	R
12 TX96D1320	15	1.0	S
13 TX97D6737	1	1.0	R
14 TX91-57	15	3.0	MR
15 AR839-27-1-3	1	1.0	MS
16 AR839-25-8-2	1	1.0	MS
17 AR-LA85411	1	1.0	R
18 LA9397D5-3-3	19	2.3	MS
19 TX98D2106	0	1.0	MR
20 GF90524E1	7	2.0	MS
21 GF92485E15	11	5.0	MS
22 GF921221E16	11	1.0	MR
23 NC96-13156	16	3.3	S
24 AW-D97-6075	1	1.0	MR
25 AW-D97*6940	4	2.0	MS
26 AW-D97*6961	19	3.0	MR
27 AW-D97-6740	19	1.0	S
28 VA98W-591	1	1.0	MS
29 VA99W-200	0	1.0	R
30 VA99W-169	0	1.7	MR
31 TX97-167	19	2.0	S
32 SC952746	0	1.0	MR
33 SC960057	5	1.0	MR
34 B960208	1	1.0	MR
35 B960457	1	1.0	MS
36 B961378	15	4.0	MS
37 G09088	4	1.0	MR
38 G09091	8	2.0	MR
39 G09080	1	2.0	MS
40 G09138	19	2.0	MS
41 F/G921188E43	50	3.0	S
42 MDV71-19	5	2.0	S
43 MDV26-30	7	4.0	MS
LOCATION MEANS	12.2	2.2	
GROWTH STAGE / DATE	5/17/01		

SEPTORIA

	Belle Mina AL	Fayetteville AR	Griffin GA	Plains GA	Hopkinsville KY	Baton Rouge LA
		leaf blotch	nodorum 0-9	nodorum 0-9	tritici 1-9	0-9
1 Coker 9835	2	15	2	0.5	5.5	2.0
2 Coker 9663	2	15	2	0.5	4.5	4.0
3 Mason	4	11	4	1.5	5.0	3.5
4 AGS2000	3	15	2	1.0	5.5	3.5
5 S9412192	4	15	4	2.5	6.0	7.5
6 LA90518PB43-3-1-4	4	15	2	1.5	6.0	6.5
7 LA90185G3-1-3-4-2	3	30	3	1.5	4.5	6.0
8 VA98W-593	3	23	4	1.0	4.0	3.0
9 NC96-13155	4	15	4	0.5	4.0	3.0
10 NC96-13965	3		1	0.5	5.0	2.5
11 B950943	2	15	2	0.5	4.0	3.0
12 TX96D1320	4	23	6	0.5	9.0	8.0
13 TX97D6737	3	23	1	1.0	5.0	4.0
14 TX91-57	4	33	3	0.5	7.0	5.5
15 AR839-27-1-3	3	23	3	1.5	4.0	3.0
16 AR839-25-8-2	3	15	5	1.5	5.0	3.5
17 AR-LA85411	3	7	1	1.5	6.5	4.5
18 LA9397D5-3-3	3	23	2	0.5	5.0	3.5
19 TX98D2106	3	40	3	0.5	8.0	4.0
20 GF90524E1	3	23	3	0.5	4.5	3.5
21 GF92485E15	4	23	4	2.0	4.0	5.5
22 GF921221E16	4	11	2	1.0	7.0	4.0
23 NC96-13156	3	23	4	0.5	4.5	2.0
24 AW-D97-6075	4	58	7	3.0	5.5	3.0
25 AW-D97*6940	3	11	6	1.5	7.0	4.5
26 AW-D97*6961	3	23	6	2.5	7.5	4.0
27 AW-D97-6740	4	58	3	1.0	6.0	2.0
28 VA98W-591	3	23	2	2.5	3.5	2.5
29 VA99W-200	3	23	2	3.5	4.5	3.5
30 VA99W-169	3	23	4	2.0	7.5	5.5
31 TX97-167	3	33	5	3.0	5.0	5.0
32 SC952746	3	11	3	4.0	6.5	4.5
33 SC960057	2	11	1	1.5	4.5	2.0
34 B960208	3	7	3	1.0	5.0	4.0
35 B960457	3	15	3	2.5	5.0	4.0
36 B961378	3	15	3	0.5	6.0	2.5
37 G09088	4	30	7	4.0	7.5	3.0
38 G09091	4	30	3	4.0	7.5	4.0
39 G09080	4	15	2	4.0	6.5	2.0
40 G09138	4	23	4	1.5	7.5	3.5
41 F/G921188E43	3	15	3	2.5	5.5	5.0
42 MDV71-19	4	23	3	2.5	7.5	3.5
43 MDV26-30	4	15	6	1.0	8.5	7.0

LOCATION MEANS
GROWTH STAGE / DATE

3.3

21.4
5/23/01

3.3

1.7

5.8

4.0
10.7

SEPTORIA

		Cleveland MS	Wooster OH	Overton TX
		tritici 1-9	leaf blotch 0-9	
1	Coker 9835	5.1	1.7	4
2	Coker 9663	2.5	1.3	3
3	Mason	3.0	1.0	4
4	AGS2000	3.9	2.0	4
5	S9412192	3.0	2.3	3
6	LA90518PB43-3-1-4	3.5	2.0	4
7	LA90185G3-1-3-4-2	2.1	2.7	4
8	VA98W-593	2.5	2.0	5
9	NC96-13155	7.1	2.7	3
10	NC96-13965	6.5	2.0	4
11	B950943	6.3	2.3	3
12	TX96D1320	4.5	2.0	5
13	TX97D6737	2.4	2.7	6
14	TX91-57	3.0	3.7	6
15	AR839-27-1-3	4.5	4.0	4
16	AR839-25-8-2	5.0	2.7	3
17	AR-LA85411	3.7	2.0	2
18	LA9397D5-3-3	5.1	3.3	4
19	TX98D2106	3.5	3.7	4
20	GF90524E1	3.1	1.3	5
21	GF92485E15	3.0	1.5	3
22	GF921221E16	5.4	1.0	4
23	NC96-13156	6.7	3.3	3
24	AW-D97-6075	3.0	4.7	3
25	AW-D97*6940	2.4	4.3	4
26	AW-D97*6961	1.9	2.0	5
27	AW-D97-6740	2.7	2.5	4
28	VA98W-591	3.5	2.0	3
29	VA99W-200	4.0	3.0	5
30	VA99W-169	2.2	2.7	4
31	TX97-167	5.2	3.0	4
32	SC952746	1.4	2.0	4
33	SC960057	3.0	2.7	3
34	B960208	2.7	4.0	4
35	B960457	4.0	2.0	5
36	B961378	2.7	2.5	4
37	G09088	6.2	3.0	4
38	G09091	4.0	3.3	5
39	G09080	4.7	2.0	5
40	G09138	5.8	2.0	6
41	F/G921188E43	3.2	3.7	5
42	MDV71-19	7.2	5.3	5
43	MDV26-30	4.2	3.0	5

LOCATION MEANS 3.9 2.6 4.1
 GROWTH STAGE / DATE

LEAF BLOTCH

		Knoxville TN
		0-9
1	Coker 9835	1.3
2	Coker 9663	2.3
3	Mason	5.0
4	AGS2000	4.3
5	S9412192	4.0
6	LA90518PB43-3-1-4	6.0
7	LA90185G3-1-3-4-2	3.0
8	VA98W-593	1.7
9	NC96-13155	4.3
10	NC96-13965	2.7
11	B950943	1.3
12	TX96D1320	8.7
13	TX97D6737	7.0
14	TX91-57	5.3
15	AR839-27-1-3	1.7
16	AR839-25-8-2	2.0
17	AR-LA85411	3.3
18	LA9397D5-3-3	5.3
19	TX98D2106	6.7
20	GF90524E1	2.3
21	GF92485E15	3.0
22	GF921221E16	6.7
23	NC96-13156	3.7
24	AW-D97-6075	4.0
25	AW-D97*6940	6.3
26	AW-D97*6961	5.3
27	AW-D97-6740	5.3
28	VA98W-591	2.0
29	VA99W-200	2.7
30	VA99W-169	6.0
31	TX97-167	3.0
32	SC952746	3.7
33	SC960057	1.3
34	B960208	4.0
35	B960457	2.7
36	B961378	4.0
37	G09088	5.3
38	G09091	6.0
39	G09080	6.0
40	G09138	7.3
41	F/G921188E43	4.7
42	MDV71-19	6.0
43	MDV26-30	4.3
LOCATION MEANS		4.2

POWDERY MILDEW

	Belle Mina AL	Quincy FL	Greensburg IN	Lexington KY	Kinston NC	Wooster OH
		0-9	1-9	0-9		0-9
1 Coker 9835	0	4	2.5	6	6.0	0.0
2 Coker 9663	0	0	2.0	5	8.0	0.3
3 Mason	0	1	3.0	6	6.5	0.5
4 AGS2000	0	0	1.5	7	3.5	0.3
5 S9412192	0	3	3.0		7.0	1.0
6 LA90518PB43-3-1-4	0	0	2.0		6.5	0.3
7 LA90185G3-1-3-4-2	0	0	2.0	7	6.5	0.0
8 VA98W-593	0	0	1.5	6	1.0	0.0
9 NC96-13155	0	0	1.5	7	1.0	0.0
10 NC96-13965	0	0	1.5	7	1.0	0.0
11 B950943	0	0	1.5	6	4.5	0.3
12 TX96D1320	0	0	3.0	6	7.0	0.7
13 TX97D6737	0	1	1.5	6	7.0	2.0
14 TX91-57	0	2	1.5		3.5	1.0
15 AR839-27-1-3	0	4	2.5	6	6.5	0.3
16 AR839-25-8-2	0	3	2.5	6	6.5	0.3
17 AR-LA85411	0	0	2.0	7	3.5	0.0
18 LA9397D5-3-3	0	3	2.0	7	7.5	2.0
19 TX98D2106	0	0	2.5	7	3.5	0.3
20 GF90524E1	0	0	1.0	7	3.0	0.0
21 GF92485E15	0	0	1.5	7	7.0	0.0
22 GF921221E16	0	2	2.0	7	5.5	0.0
23 NC96-13156	0	0	1.5	7	1.5	0.0
24 AW-D97-6075	0	2	2.5	7	5.5	0.7
25 AW-D97*6940	0	0	2.0	6	5.5	0.3
26 AW-D97*6961	0	1	2.0	6	2.0	1.3
27 AW-D97-6740	0	0	2.5	7	4.0	0.5
28 VA98W-591	0	0	1.5	6	1.0	0.0
29 VA99W-200	0	0	1.5	7	4.5	0.0
30 VA99W-169	0	0	1.5	7	1.5	0.0
31 TX97-167	0	1	2.0	6	6.5	0.3
32 SC952746	0	0	1.5	7	4.5	0.0
33 SC960057	0	0	1.5	6	3.5	1.0
34 B960208	0	4	3.5		8.0	4.5
35 B960457	0	0	3.5	7	6.5	1.5
36 B961378	0	3	3.0	7	7.0	0.5
37 G09088	0	6	3.5		7.0	6.0
38 G09091	2	6	4.5		7.0	4.0
39 G09080	0	6	5.0		6.5	5.3
40 G09138	2	5	4.0	7	7.5	7.3
41 F/G921188E43	0	0	1.5	6	5.5	0.0
42 MDV71-19	0	0	1.5	7	2.0	0.0
43 MDV26-30	0	0	1.5	7	3.5	0.0
LOCATION MEANS	0.1	1.3	2.2	6.6	4.9	1.0
GROWTH STAGE / DATE		4/17/01	9			

POWDERY MILDEW

		Blacksburg VA	Blacksburg VA	Blacksburg VA	Warsaw VA
		0-9	PM composite	Roane	0-9
1	Coker 9835	4	34MS	3MS	3
2	Coker 9663	4	34MS	3MS	6
3	Mason	2	4S	34MS	7
4	AGS2000	1	3MS	2I	1
5	S9412192	1	4S	34MS	4
6	LA90518PB43-3-1-4	2	23MSI	3MS	5
7	LA90185G3-1-3-4-2	1	2I	4S	4
8	VA98W-593	0	0R	0R	0
9	NC96-13155	1	34MS	0R	0
10	NC96-13965	0	34MS	0R	0
11	B950943	2	3MS	23MSI	3
12	TX96D1320	3	3MS	34MS	7
13	TX97D6737	2	34S	4S	7
14	TX91-57	1	2I	23MSI	3
15	AR839-27-1-3	3	4S	3MS	5
16	AR839-25-8-2	2	34MS	4S	6
17	AR-LA85411	1	1R	4S	2
18	LA9397D5-3-3	4	34S	4S	7
19	TX98D2106	1	4S	34MS	2
20	GF90524E1	1	2IMR	23IMS	1
21	GF92485E15	0	23MSI	3MS	1
22	GF921221E16	1	3MS	34MS	4
23	NC96-13156	0	34MS	0R	0
24	AW-D97-6075	1	4S	4S	4
25	AW-D97*6940	1	3MS	34MS	6
26	AW-D97*6961	2	1R	0R	0
27	AW-D97-6740	1	4S	4S	4
28	VA98W-591	1	0R	0R	0
29	VA99W-200	3	1R	3MS	4
30	VA99W-169	1	23IMS	12MR	0
31	TX97-167	2	3MS	4S	5
32	SC952746	1	3MS	12MR	2
33	SC960057	1	4S	2I	0
34	B960208	4	34S	3MS	8
35	B960457	5	4S	23IMS	4
36	B961378	4	4S	34S	7
37	G09088	7	4S	3S	7
38	G09091	6	4S	4S	8
39	G09080	6	4S	3MS	7
40	G09138	8	34S	23IMS	8
41	F/G921188E43	4	1R	0R	3
42	MDV71-19	2	1R	1R	0
43	MDV26-30	4	3MS	3MS	2

LOCATION MEANS
GROWTH STAGE / DATE

2.3

greenhouse greenhouse

3.7

POWDERY MILDEW

Raleigh
NC

		ABK	Aso	E2-15	E3-14	F7-11	F7-12	Mo10	Pm4	Yuma	WKin91
4	AGS2000	RM	RM	M	RM	R	RM	RM	R	M	M
15	AR839-27-1-3	S	S	S	S	S	S	S	S	S	S
16	AR839-25-8-2	S	S	S	S	S	S	S	S	S	S
17	AR-LA85411	R	R	R	R	R	R	R	RM	R	R
18	LA9397D5-3-3	S	S	S	S	S	S	S	S	S	S
19	TX98D2106	M	S	S	S	S	S	S	S	S	S
20	GF90524E1	M	M	R	M	M	M	RS	M	M	RM
21	GF92485E15	M	S	S	S	S	M	S	S	S	M
22	GF921221E16	M	M	S	S	S	S	S	S	S	S
23	NC96-13156	S	R	S	S	R	RM	R	RS	R	S
24	AW-D97-6075	M	S	S	S	S	S	S	S	S	S
25	AW-D97-6940	S	S	S	S	S	S	S	S	S	S
26	AW-D97-6961	M	RM	M	S	R	RM	M	M	R	S
27	AW-D97-6740	S	S	S	S	S	S	M	S	S	S
28	VA98W-591	M	M	M	M	M	M	M	S	M	RM
	Chancellor	S	S	S	S	S	S	S	S	S	S
29	VA99W-200	R	R	R	R	M	S	S	S	R	R
30	VA99W-169	RM	R	S	S	S	M	S	S	M	M
31	TX97-167	S	S	S	S	S	S	S	S	S	S
32	SC952746	M	RM	M	S	S	R	M	RM	S	S
33	SC960057	S	S	S	S	S	S	S	S	S	S
34	B960208	S	S	S	S	S	S	S	S	S	S
35	B960457	S	S	S	S	S	S	S	S	RS	S
36	B961378	S	S	S	S	S	S	S	S	S	S
37	G09088	S	S	S	S	S	S	S	S	S	S
38	G09091	S	S	S	S	S	S	S	S	S	S
39	G09080	S	S	S	S	S	S	S	S	S	S
40	G09138	S	S	S	S	S	S	S	S	S	S
41	F/G921188E43	RM	M	S	S	RM	S	M	RM	R	S
42	MDV71-19	R	S	S	R	R	RS	M	R	R	M
43	MCV26-30	S	SR	RS	S	RS	RS	R	S	S	S
	Chancellor	S	S	S	S	S	S	S	S	S	S

POWDERY MILDEW

Raleigh
NC

		W72-27	3a	6	127	144	85063	#5	#7	#8	#9
4	AGS2000	R	RM	RM	R	R	R	R	R	R	M
15	AR839-27-1-3	S	S	S	S	S	S	S	M	S	M
16	AR839-25-8-2	S	S	S	S	S	RS	M	S	S	S
17	AR-LA85411	R	R	RM	R	R	R	R	S	R	S
18	LA9397D5-3-3	R	S	S	R	R	R	R	S	R	M
19	TX98D2106	RM	S	S	M	S	R	R	M	M	M
20	GF90524E1	R	S	S	R	R	R	R	M	R	M
21	GF92485E15	R	S	S	R	R	R	R	M	RM	S
22	GF921221E16	R	S	S	R	R	R	R	RS	R	S
23	NC96-13156	M	R	R	S	R	RM	R	RM	S	R
24	AW-D97-6075	RS	S	S	S	S	RS	S	M	S	S
25	AW-D97-6940	R	S	S	R	R	R	R	M	R	M
26	AW-D97-6961	R	RM	RM	S	S	S	S	M	S	S
27	AW-D97-6740	R	S	S	R	RS	R	R	S	RM	M
28	VA98W-591	R	RM	M	S	S	S	RM	RM	S	R
	Chancellor	RM	S	S	S	S	M	S	S	S	S
29	VA99W-200	R	M	RS	R	R	R	R	RM	R	M
30	VA99W-169	R	S	S	R	R	R	R	R	R	R
31	TX97-167	R	S	S	R	R	RM	RS	RM	R	S
32	SC952746	R	R	R	R	R	R	R	M	R	R
33	SC960057	M	S	S	S	S	S	S	M	S	M
34	B960208	M	S	S	S	S	S	S	S	S	M
35	B960457	RM	S	S	S	S	S	M	S	S	M
36	B961378	R	S	S	S	S	M	S	S	S	S
37	G09088	S	S	S	S	S	S	S	S	S	S
38	G09091	RM	S	S	S	S	S	S	S	S	S
39	G09080	RS	S	S	S	S	S	S	M	S	S
40	G09138	R	RM	S	S	S	RM	S	RM	S	RM
41	F/G921188E43	R	R	R	S	S	S	S	M	S	RM
42	MDV71-19	R	R	R	RM	RM	R	R	R	S	R
43	MCV26-30	R	R	RS	M	S	S	RS	S	S	R
	Chancellor	M	S	S	S	S	S	S	S	S	S

POWDERY MILDEW

Raleigh
NC

		#10	43a1	43a2	73b2	101a2	153a2	156b1	169-1b	209a2	216a
4	AGS2000	R	S	S	M	R	S	M	R	RM	R
15	AR839-27-1-3	S	S	S	S	S	S	S	S	S	S
16	AR839-25-8-2	S	S	S	S	S	S	S	S	S	S
17	AR-LA85411	R	RM	RM	R	R	RM	.	R	R	R
18	LA9397D5-3-3	R	S	S	M	R	S	S	R	S	RM
19	TX98D2106	M	S	S	S	S	S	.	S	S	RM
20	GF90524E1	R	S	S	R	R	S	.	R	S	R
21	GF92485E15	R	S	S	S	RM	S	.	RM	S	RS
22	GF921221E16	R	S	S	M	R	S	.	R	S	S
23	NC96-13156	RM	R	R	R	S	S	R	R	R	R
24	AW-D97-6075	S	S	S	S	S	S	S	S	S	S
25	AW-D97-6940	R	S	S	RM	R	S	S	RM	S	M
26	AW-D97-6961	S	R	R	S	S	M	S	S	R	RM
27	AW-D97-6740	R	S	S	S	RM	S	S	R	S	M
28	VA98W-591	RM	M	M	R	S	M	M	R	M	M
	Chancellor	S	S	S	S	S	S	S	S	S	S
29	VA99W-200	R	M	RM	R	R	R	RS	R	M	R
30	VA99W-169	R	S	RM	R	R	S	M	R	M	M
31	TX97-167	RM	S	RM	S	R	S	S	R	S	S
32	SC952746	R	S	RM	R	R	S	S	R	R	RM
33	SC960057	S	S	S	RM	S	S	S	S	S	S
34	B960208	S	S	S	RM	S	S	S	S	S	S
35	B960457	S	S	S	R	S	S	S	S	S	S
36	B961378	S	S	S	RM	S	S	S	S	S	S
37	G09088	S	S	S	M	S	S	S	S	S	S
38	G09091	S	S	M	M	S	S	S	S	S	S
39	G09080	S	S	S	S	S	S	S	S	S	S
40	G09138	M	S	M	R	M	S	S	M	S	S
41	F/G921188E43	S	S	RM	RM	S	S	RM	S	S	M
42	MDV71-19	R	S	R	R	R	R	R	S	R	R
43	MCV26-30	RS	R	S	RS	S	S	RS	S	S	RS
	Chancellor	S	S	S	S	S	S	S	S	S	S

BYDV

	Belle Mina AL	Kinston NC
1 Coker 9835	5	3.0
2 Coker 9663	2	3.0
3 Mason	8	3.5
4 AGS2000	7	2.0
5 S9412192	6	4.0
6 LA90518PB43-3-1-4	7	4.5
7 LA90185G3-1-3-4-2	5	4.0
8 VA98W-593	8	3.5
9 NC96-13155	3	2.5
10 NC96-13965	4	3.0
11 B950943	3	3.5
12 TX96D1320	8	5.0
13 TX97D6737	5	4.5
14 TX91-57	8	2.5
15 AR839-27-1-3	4	3.5
16 AR839-25-8-2	5	4.5
17 AR-LA85411	7	3.0
18 LA9397D5-3-3	6	4.5
19 TX98D2106	8	3.0
20 GF90524E1	5	2.5
21 GF92485E15	2	3.0
22 GF921221E16	7	3.5
23 NC96-13156	3	3.0
24 AW-D97-6075	8	2.5
25 AW-D97*6940	5	4.0
26 AW-D97*6961	6	3.5
27 AW-D97-6740	8	3.0
28 VA98W-591	8	2.5
29 VA99W-200	7	2.0
30 VA99W-169	5	3.0
31 TX97-167	5	4.0
32 SC952746	4	5.5
33 SC960057	1	3.0
34 B960208	4	4.0
35 B960457	4	4.5
36 B961378	2	5.5
37 G09088	9	3.0
38 G09091	8	4.0
39 G09080	7	4.5
40 G09138	5	4.5
41 F/G921188E43	2	4.0
42 MDV71-19	9	3.0
43 MDV26-30	9	3.5
LOCATION MEANS	5.6	3.5

SBMV

		Winfield KS	Portageville MO
			% canopy
1	Coker 9835	2	2
2	Coker 9663	6	2
3	Mason	7	1
4	AGS2000	9	3
5	S9412192	7	2
6	LA90518PB43-3-1-4	9	2
7	LA90185G3-1-3-4-2	9	3
8	VA98W-593	7	2
9	NC96-13155	1	2
10	NC96-13965	1	1
11	B950943	4	1
12	TX96D1320	9	2
13	TX97D6737	3	4
14	TX91-57	9	1
15	AR839-27-1-3	1	1
16	AR839-25-8-2	1	1
17	AR-LA85411	9	0
18	LA9397D5-3-3	1	2
19	TX98D2106	2	1
20	GF90524E1	2	3
21	GF92485E15	9	2
22	GF921221E16	1	0
23	NC96-13156	2	1
24	AW-D97-6075	1	0
25	AW-D97*6940	9	2
26	AW-D97*6961	5	1
27	AW-D97-6740	2	1
28	VA98W-591	1	1
29	VA99W-200	2	4
30	VA99W-169	1	0
31	TX97-167	3	3
32	SC952746	7	0
33	SC960057	8	5
34	B960208	2	1
35	B960457	9	1
36	B961378	2	0
37	G09088	3	1
38	G09091	1	0
39	G09080	2	1
40	G09138	1	0
41	F/G921188E43	9	3
42	MDV71-19	1	0
43	MDV26-30	2	0
	LOCATION MEANS	4.2	1.5

SPINDLE STREAK

	Bay AR	Hopkinsville KY
	1-9	1-9
1 Coker 9835	4.0	1.5
2 Coker 9663	3.0	3.0
3 Mason	3.7	2.0
4 AGS2000	4.7	6.5
5 S9412192	3.7	5.0
6 LA90518PB43-3-1-4	5.7	8.0
7 LA90185G3-1-3-4-2	4.3	4.5
8 VA98W-593	4.3	1.0
9 NC96-13155	5.0	5.5
10 NC96-13965	4.7	4.0
11 B950943	4.7	1.5
12 TX96D1320	3.3	5.0
13 TX97D6737	5.3	1.0
14 TX91-57	4.3	4.0
15 AR839-27-1-3	3.0	1.0
16 AR839-25-8-2	3.3	1.0
17 AR-LA85411	5.3	6.5
18 LA9397D5-3-3	3.3	3.0
19 TX98D2106	6.0	2.5
20 GF90524E1	3.7	6.5
21 GF92485E15	5.0	4.0
22 GF921221E16	4.3	1.5
23 NC96-13156	5.3	6.0
24 AW-D97-6075	4.7	1.0
25 AW-D97*6940	4.7	4.0
26 AW-D97*6961	6.0	1.0
27 AW-D97-6740	4.7	6.0
28 VA98W-591	3.7	1.0
29 VA99W-200	3.3	1.5
30 VA99W-169	3.0	1.0
31 TX97-167	4.3	6.5
32 SC952746	3.0	1.0
33 SC960057	5.7	7.0
34 B960208	3.3	1.0
35 B960457	4.3	7.0
36 B961378	2.7	1.0
37 G09088	5.0	1.0
38 G09091	4.0	1.0
39 G09080	3.7	1.0
40 G09138	3.7	1.0
41 F/G921188E43	5.3	1.0
42 MDV71-19	3.7	1.0
43 MDV26-30	3.3	1.5
LOCATION MEANS	4.2	3.0

HESSIAN FLY

W. Lafayette
IN

	Biotype B	Biotype C	Biotype D	Biotype E	Biotype L
1 Coker 9835	0 - 15	11 - 2	0 - 13	15 - 1	0 - 11
2 Coker 9663	2 - 11	2 - 10	6 - 5	6 - 10	0 - 12
3 Mason	0 - 15	0 - 17	0 - 13	1 - 11	0 - 11
4 AGS2000	0 - 13	0 - 13	0 - 12	0 - 12	0 - 10
5 S9412192	0 - 14	0 - 19	0 - 12	0 - 12	0 - 14
6 LA90518PB43-3-1-4	0 - 15	0 - 16	0 - 12	1 - 14	0 - 13
7 LA90185G3-1-3-4-2	0 - 12	10 - 5	0 - 14	12 - 1	0 - 12
8 VA98W-593	0 - 14	0 - 15	0 - 15	0 - 11	0 - 10
9 NC96-13155	0 - 21	0 - 10	0 - 10	1 - 13	0 - 10
10 NC96-13965	0 - 14	4 - 13	0 - 12	3 - 11	0 - 9
11 B950943	0 - 14	0 - 14	0 - 15	0 - 14	0 - 12
12 TX96D1320	11 - 1	11 - 5	0 - 14	19 - 0	0 - 10
13 TX97D6737	0 - 14	0 - 11	0 - 11	0 - 14	0 - 15
14 TX91-57	8 - 5	6 - 7	8 - 4	7 - 7	10 - 3
15 AR839-27-1-3	0 - 14	3 - 12	0 - 17	1 - 14	0 - 14
16 AR839-25-8-2	0 - 15	0 - 14	0 - 15	0 - 19	0 - 14
17 AR-LA85411	0 - 14	0 - 15	0 - 14	18 - 0	0 - 14
18 LA9397D5-3-3	0 - 13	0 - 20	0 - 18	0 - 14	0 - 16
19 TX98D2106	15 - 0	2 - 13	0 - 15	13 - 3	0 - 12
20 GF90524E1	0 - 17	0 - 11	0 - 15	2 - 13	0 - 11
21 GF92485E15	0 - 15	2 - 12	0 - 12	8 - 9	0 - 11
22 GF921221E16	0 - 15	15 - 0	10 - 1	6 - 8	1 - 8
23 NC96-13156	0 - 13	11 - 2	0 - 11	8 - 8	3 - 11
24 AW-D97-6075	0 - 13	0 - 14	0 - 15	0 - 17	0 - 16
25 AW-D97*6940	0 - 10	0 - 9	0 - 12	0 - 17	0 - 9
26 AW-D97*6961	12 - 1	0 - 15	0 - 13	17 - 0	4 - 11
27 AW-D97-6740	0 - 12	7 - 5	0 - 11	0 - 17	0 - 15
28 VA98W-591	0 - 16	0 - 13	0 - 13	1 - 15	2 - 11
29 VA99W-200	6 - 9	1 - 19	0 - 15	8 - 10	9 - 5
30 VA99W-169	0 - 18	0 - 18	0 - 12	16 - 2	3 - 11
31 TX97-167	0 - 12	6 - 12	0 - 14	9 - 8	0 - 16
32 SC952746	0 - 8	2 - 6	0 - 7	0 - 5	0 - 11
33 SC960057	12 - 0	5 - 12	0 - 12	13 - 0	0 - 19
34 B960208	14 - 0	12 - 0	4 - 8	21 - 0	13 - 1
35 B960457	15 - 1	2 - 12	0 - 13	19 - 0	2 - 11
36 B961378	12 - 1	0 - 12	0 - 14	15 - 3	0 - 11
37 G09088	12 - 0	2 - 12	0 - 12	15 - 1	0 - 9
38 G09091	14 - 7	0 - 14	0 - 17	17 - 3	0 - 13
39 G09080	12 - 2	0 - 18	0 - 16	20 - 0	0 - 10
40 G09138	0 - 16	0 - 18	0 - 17	0 - 16	0 - 11
41 F/G921188E43	0 - 16	0 - 14	0 - 11	1 - 16	1 - 13
42 MDV71-19	0 - 13	16 - 1	0 - 10	0 - 16	0 - 7
43 MDV26-30	12 - 4	3 - 14	0 - 14	11 - 5	0 - 12

HESSIAN FLY

		Prosper TX
		0-5
1	Coker 9835	1.0
2	Coker 9663	2.3
3	Mason	1.7
4	AGS2000	1.0
5	S9412192	3.3
6	LA90518PB43-3-1-4	2.0
7	LA90185G3-1-3-4-2	1.3
8	VA98W-593	2.0
9	NC96-13155	1.7
10	NC96-13965	1.7
11	B950943	2.7
12	TX96D1320	0.7
13	TX97D6737	2.0
14	TX91-57	2.3
15	AR839-27-1-3	2.7
16	AR839-25-8-2	1.3
17	AR-LA85411	2.0
18	LA9397D5-3-3	2.3
19	TX98D2106	1.0
20	GF90524E1	2.3
21	GF92485E15	2.7
22	GF921221E16	1.7
23	NC96-13156	1.3
24	AW-D97-6075	2.7
25	AW-D97*6940	3.7
26	AW-D97*6961	1.3
27	AW-D97-6740	1.3
28	VA98W-591	1.3
29	VA99W-200	2.0
30	VA99W-169	1.7
31	TX97-167	3.7
32	SC952746	2.0
33	SC960057	2.7
34	B960208	2.0
35	B960457	2.0
36	B961378	2.0
37	G09088	1.7
38	G09091	1.0
39	G09080	1.7
40	G09138	2.0
41	F/G921188E43	2.7
42	MDV71-19	1.3
43	MDV26-30	1.3
	LOCATION MEANS	1.9

STAND ESTABLISHMENT

		Prosper TX
		0-5
1	Coker 9835	2.0
2	Coker 9663	2.3
3	Mason	2.3
4	AGS2000	2.0
5	S9412192	3.3
6	LA90518PB43-3-1-4	2.7
7	LA90185G3-1-3-4-2	1.7
8	VA98W-593	2.3
9	NC96-13155	2.7
10	NC96-13965	2.3
11	B950943	2.7
12	TX96D1320	0.7
13	TX97D6737	1.3
14	TX91-57	2.0
15	AR839-27-1-3	2.3
16	AR839-25-8-2	2.3
17	AR-LA85411	2.3
18	LA9397D5-3-3	2.7
19	TX98D2106	1.3
20	GF90524E1	2.3
21	GF92485E15	2.0
22	GF921221E16	2.0
23	NC96-13156	2.0
24	AW-D97-6075	2.7
25	AW-D97*6940	2.7
26	AW-D97*6961	1.7
27	AW-D97-6740	2.0
28	VA98W-591	2.0
29	VA99W-200	2.3
30	VA99W-169	2.7
31	TX97-167	3.0
32	SC952746	3.3
33	SC960057	1.3
34	B960208	1.7
35	B960457	2.0
36	B961378	2.0
37	G09088	1.7
38	G09091	1.0
39	G09080	1.3
40	G09138	3.0
41	F/G921188E43	2.7
42	MDV71-19	2.7
43	MDV26-30	2.0
LOCATION MEANS		2.2

MATURITY

		Keiser AR
		julian
1	Coker 9835	144
2	Coker 9663	141
3	Mason	140
4	AGS2000	142
5	S9412192	142
6	LA90518PB43-3-1-4	141
7	LA90185G3-1-3-4-2	141
8	VA98W-593	142
9	NC96-13155	142
10	NC96-13965	141
11	B950943	144
12	TX96D1320	142
13	TX97D6737	142
14	TX91-57	140
15	AR839-27-1-3	148
16	AR839-25-8-2	145
17	AR-LA85411	141
18	LA9397D5-3-3	141
19	TX98D2106	141
20	GF90524E1	142
21	GF92485E15	141
22	GF921221E16	140
23	NC96-13156	143
24	AW-D97-6075	142
25	AW-D97*6940	142
26	AW-D97*6961	145
27	AW-D97-6740	139
28	VA98W-591	145
29	VA99W-200	141
30	VA99W-169	141
31	TX97-167	142
32	SC952746	142
33	SC960057	150
34	B960208	141
35	B960457	143
36	B961378	148
37	G09088	139
38	G09091	141
39	G09080	142
40	G09138	143
41	F/G921188E43	143
42	MDV71-19	141
43	MDV26-30	137
LOCATION MEANS		142.2

ACID SOIL TOLERANCE

	Enid OK	Enid OK
	1-5	1-5
1 Coker 9835		
2 Coker 9663		
3 Mason		
4 AGS2000		
5 S9412192		
6 LA90518PB43-3-1-4		
7 LA90185G3-1-3-4-2		
8 VA98W-593		
9 NC96-13155	3	3
10 NC96-13965	3	3
11 B950943		
12 TX96D1320	4	5
13 TX97D6737	2	1
14 TX91-57		
15 AR839-27-1-3	4	3
16 AR839-25-8-2	2	2
17 AR-LA85411	3	3
18 LA9397D5-3-3	1	1
19 TX98D2106	2	1
20 GF90524E1	2	2
21 GF92485E15	3	2
22 GF921221E16	4	3
23 NC96-13156	2	2
24 AW-D97-6075	2	2
25 AW-D97*6940	3	3
26 AW-D97*6961	3	2
27 AW-D97-6740	1	1
28 VA98W-591	2	2
29 VA99W-200	2	1
30 VA99W-169	3	3
31 TX97-167	3	2
32 SC952746	4	3
33 SC960057	1	1
34 B960208	1	1
35 B960457	2	2
36 B961378	2	1
37 G09088	2	1
38 G09091	2	1
39 G09080	2	1
40 G09138	4	3
41 F/G921188E43	3	2
42 MDV71-19	2	2
43 MDV26-30	2	1
LOCATION MEANS	2.5	2.0
GROWTH STAGE / DATE	4/18/01	5/8/01

1RS STATUS

Lincoln
NE

1	Coker 9835	Non.1RS
2	Coker 9663	Non.1RS
3	Mason	Non.1RS
4	AGS2000	1BL.1RS
5	S9412192	1BL.1RS
6	LA90518PB43-3-1-4	Non.1RS
7	LA90185G3-1-3-4-2	Non.1RS
8	VA98W-593	1AL.1RS
9	NC96-13155	Non.1RS
10	NC96-13965	Non.1RS
11	B950943	Non.1RS
12	TX96D1320	Non.1RS
13	TX97D6737	Non.1RS
14	TX91-57	Non.1RS
15	AR839-27-1-3	Non.1RS
16	AR839-25-8-2	Non.1RS
17	AR-LA85411	Non.1RS
18	LA9397D5-3-3	Non.1RS
19	TX98D2106	Non.1RS
20	GF90524E1	Non.1RS
21	GF92485E15	1BL.1RS
22	GF921221E16	Non.1RS
23	NC96-13156	Non.1RS
24	AW-D97-6075	Non.1RS
25	AW-D97*6940	Non.1RS
26	AW-D97*6961	1BL.1RS
27	AW-D97-6740	Non.1RS
28	VA98W-591	1AL.1RS
29	VA99W-200	Non.1RS
30	VA99W-169	Non.1RS
31	TX97-167	Non.1RS
32	SC952746	Non.1RS
33	SC960057	Non.1RS
34	B960208	Non.1RS
35	B960457	Non.1RS
36	B961378	Non.1RS
37	G09088	Non.1RS
38	G09091	Non.1RS
39	G09080	1AL.1RS
40	G09138	1BL.1RS
41	F/G921188E43	1BL.1RS
42	MDV71-19	1BL.1RS
43	MDV26-30	1AL.1RS

**2001 Crop
Advanced Nursery Evaluation**

MBQ - Uniform Southern Nursery

Entries #2501 - #2543 (Region 1)

Entries #2544 - #2586 (Region 2)

Forty-three entries were submitted from each of two regions. Samples were composited by region:

Region 1
(Interior, lower leaf rust)

Keiser, AR
Clemson, SC
Queenstown, MD
Belle Mina, AL

Region 2
(Warmer, higher leaf rust)

Quincy, FL
Marianna, FL
Baton Rouge, LA

Each region was analyzed separately, using the MASON check as the standard (MASON was also used in 2000). In addition, the data from both regions were combined and analyzed by using the mean data from both MASON checks as the standard (this allows comparison between regions).

Standards:

When the MASON standards are compared to the historical data (11 Quad millings), the standards were very similar, with a few exceptions:

S.E.: Region 2 was 3.4% lower than Region 1 and 2.9% lower than the historical value.

Cookie Diameter: (Historically, MASON had very small cookies (17.24 cm.). Region 1 was .32 cm. Larger than the historical value, and Region 2 was .64 cm. larger.

Mason Standards:

	Data-base	Region 1	Region 2	Mean
Test Weight	59.0	60.3	58.1	59.2
Softness Equivalent	62.2	62.7	59.3	61.0
Flour Yield	70.5	70.9	71.4	71.1
Flour Protein	8.78	8.99	9.60	9.29
A.W.R.C.	56.4	56.4	56.0	55.7
Cookie Diameter	17.24	17.56	17.88	17.72
Lactic Acid Retention	-	135.2	130.8	133.0

In the table below, the mean data from all cultivars in the SWQL data-base (2,077 Quad millings, 242 cultivars) are compared to the mean data from each region. Usually there is good agreement between the Historical average and the Regional average. However, the S.E. was 1.3% lower, and cookie diameter was .14cm larger. This was a response to the environment. Note the 3.42 % difference for S.E. between regions, and the .23 cm. Difference for cookie diameter.

Regional Means:

	Data-base	Region 1	Region 2	Diff. (R1-R2)	Both
Test Weight	59.7	60.59	59.24	+1.35	59.94
Softness Equivalent	57.8	58.24	54.82	+3.42	56.47
Flour Yield	71.0	71.51	71.96	-.45	71.76
Flour Protein	8.74	9.22	9.46	-.24	9.34
A.W.R.C.	56.3	57.18	56.43	+.75	56.76
Cookie Diameter	17.64	17.66	17.89	-.23	17.78
Lactic Acid Retention	-	132.9	120.6	-12.3	126.7

Four cultivars produced yellow flour:

#9 (NC96-13155)
#10 (NC96-13965)
#13 (TX 97D6737)
#23 (NC96-13156)

This was true for both regions.

Lactic Acid retention values were unusually high for these samples, and there were difficulties in analyzing the samples.

When both regions were analyzed together, there was very good agreement between cultivars from both regions for both Milling and Baking Quality Scores. Test weight averaged 1.35 lb/bu lower for region 2, and S.E was 3.4% lower. Flour yield was .45% higher for region 2, but .75% lower for A.W.R.C. The cookie diameter was .23 cm. Larger, and region 2 was 12.3% lower for lactic acid retention.

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

STD = AVG. OF TWO MASON ENTRIES

LAB ENTRY NO.		MILLING QUALITY SCORE			BAKING QUALITY SCORE		
		REGION 1	REGION 2	MEAN	REGION 1	REGION 2	MEAN
1	Coker 9835	105.5	102.6	104.0	97.8	95.7	96.7
2	Coker 9663	95.7	91.9	93.8	92.0	85.9	89.0
3	Mason	100.6	99.4	100.0	96.3	103.8	100.0
4	AGS2000	105.9	101.7	103.8	101.0	98.2	99.6
5	S9412192	84.3	86.5	85.4	45.9	55.8	50.8
6	LA90518PB43-3-1-4	105.0	101.9	103.5	93.3	102.2	97.7
7	LA90185G3-1-3-4-2	100.0	100.9	100.4	81.2	97.9	89.6
8	VA98W-593	96.2	92.9	94.5	82.0	75.1	78.6
9	NC96-13155	102.5	100.2	101.4	101.3	99.3	100.3
10	NC96-13965	105.8	102.8	104.3	107.1	102.9	105.0
11	B950943	98.1	96.9	97.5	95.5	90.4	93.0
12	TX96D1320	95.2	93.7	94.5	89.0	90.0	89.5
13	TX97D6737	103.2	100.1	101.6	105.0	97.0	101.0
14	TX91-57	93.6	88.9	91.2	82.3	65.4	73.9
15	AR839-27-1-3	103.4	101.2	102.3	98.6	91.9	95.2
16	AR839-25-8-2	102.6	98.0	100.3	97.9	87.2	92.5
17	AR-LA85411	103.5	101.8	102.6	96.3	102.1	99.2
18	LA9397D5-3-3	102.2	101.6	101.9	106.3	102.5	104.4
19	TX98D2106	90.1	91.4	90.8	74.2	81.5	77.8
20	GF90524E1	95.3	92.1	93.7	96.3	91.7	94.0
21	GF92485E15	98.4	97.8	98.1	85.9	89.3	87.6
22	GF921221E16	100.8	95.1	97.9	90.5	98.7	94.6
23	NC96-13156	102.2	99.9	101.0	98.3	98.8	98.6
24	AW-D97-6075	92.7	94.2	93.4	85.9	99.7	92.8
25	AW-D97*6940	101.2	97.4	99.3	84.4	99.6	92.0
26	AW-D97*6961	92.8	93.4	93.1	91.4	99.8	95.6
27	AW-D97-6740	104.8	102.9	103.9	93.9	103.5	98.7
28	VA98W-591	99.4	97.8	98.6	98.5	95.7	97.1
29	VA99W-200	101.4	103.0	102.2	108.0	101.6	104.8
30	VA99W-169	100.3	101.8	101.0	78.2	96.6	87.4
31	TX97-167	102.5	103.3	102.9	79.1	95.8	87.5
32	SC952746	95.5	94.0	94.8	49.7	36.9	43.3
33	SC960057	102.2	99.8	101.0	103.3	102.0	102.7
34	B960208	99.8	97.4	98.6	97.3	97.5	97.4
35	B960457	103.8	103.2	103.5	80.9	97.2	89.0
36	B961378	100.2	97.5	98.9	102.0	95.7	98.9
37	G09088	100.3	102.4	101.3	100.4	101.0	100.7
38	G09091	105.7	104.6	105.1	106.4	98.2	102.3
39	G09080	103.2	103.8	103.5	105.4	97.9	101.6
40	G09138	99.8	100.1	99.9	98.4	99.2	98.8
41	F/G921188E43	97.1	95.5	96.3	63.4	83.8	73.6
42	MDV71-19	102.6	99.4	101.0	84.6	94.0	89.3
43	MDV26-30	93.9	92.8	93.4	77.2	82.3	79.7
	MINIMUM	84.3	86.5	85.4	45.9	36.9	43.3
	MAXIMUM	105.9	104.6	105.1	108.0	103.8	105.0
	MEAN	99.7	98.2	99.0	90.7	92.6	91.7

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

STD = AVG. OF TWO MASON ENTRIES

LAB NO.	ENTRY	COMBINED QUALITY SCORE			MICRO T.W. LB/BU		
		REGION 1	REGION 2	MEAN	REGION 1	REGION 2	MEAN
1	Coker 9835	97.8	95.7	96.7	60.9	59.0	59.9
2	Coker 9663	92.0	85.9	89.0	60.5	59.8	60.2
3	Mason	96.3	99.4	97.8	60.3	58.1	59.2
4	AGS2000	101.0	98.2	99.6	61.2	61.0	61.1
5	S9412192	45.9	55.8	50.8	60.3	58.1	59.2
6	LA90518PB43-3-1-4	93.3	101.9	97.6	59.5	58.2	58.9
7	LA90185G3-1-3-4-2	81.2	97.9	89.6	60.5	58.9	59.7
8	VA98W-593	82.0	75.1	78.6	63.1	61.7	62.4
9	NC96-13155	101.3	99.3	100.3	61.9	60.8	61.4
10	NC96-13965	105.8	102.8	104.3	61.5	61.2	61.4
11	B950943	95.5	90.4	93.0	60.3	59.4	59.9
12	TX96D1320	89.0	90.0	89.5	59.7	59.2	59.5
13	TX97D6737	103.2	97.0	100.1	58.9	59.0	59.0
14	TX91-57	82.3	65.4	73.9	59.9	59.6	59.7
15	AR839-27-1-3	98.6	91.9	95.2	60.2	58.9	59.6
16	AR839-25-8-2	97.9	87.2	92.5	60.4	58.6	59.5
17	AR-LA85411	96.3	101.8	99.1	61.4	60.1	60.8
18	LA9397D5-3-3	102.2	101.6	101.9	60.4	58.9	59.7
19	TX98D2106	74.2	81.5	77.8	60.0	58.2	59.1
20	GF90524E1	95.3	91.7	93.5	60.5	59.0	59.8
21	GF92485E15	85.9	89.3	87.6	62.4	61.4	61.9
22	GF921221E16	90.5	95.1	92.8	60.4	58.5	59.5
23	NC96-13156	98.3	98.8	98.6	62.0	60.7	61.3
24	AW-D97-6075	85.9	94.2	90.0	60.8	59.3	60.1
25	AW-D97*6940	84.4	97.4	90.9	60.7	59.6	60.2
26	AW-D97*6961	91.4	93.4	92.4	61.3	59.9	60.6
27	AW-D97-6740	93.9	102.9	98.4	61.0	60.5	60.8
28	VA98W-591	98.5	95.7	97.1	61.5	60.8	61.1
29	VA99W-200	101.4	101.6	101.5	60.4	59.3	59.8
30	VA99W-169	78.2	96.6	87.4	59.8	58.3	59.1
31	TX97-167	79.1	95.8	87.5	61.1	59.5	60.3
32	SC952746	49.7	36.9	43.3	60.5	58.5	59.5
33	SC960057	102.2	99.8	101.0	59.1	55.6	57.3
34	B960208	97.3	97.4	97.3	60.3	59.1	59.7
35	B960457	80.9	97.2	89.0	59.4	57.7	58.6
36	B961378	100.2	95.7	98.0	61.6	60.2	60.9
37	G09088	100.3	101.0	100.6	60.6	57.2	58.9
38	G09091	105.7	98.2	101.9	60.3	59.2	59.8
39	G09080	103.2	97.9	100.6	60.0	59.2	59.6
40	G09138	98.4	99.2	98.8	61.1	59.7	60.4
41	F/G921188E43	63.4	83.8	73.6	61.1	58.5	59.8
42	MDV71-19	84.6	94.0	89.3	59.8	60.3	60.0
43	MDV26-30	77.2	82.3	79.7	59.8	59.1	59.4
	MINIMUM	45.9	36.9	43.3	58.9	55.6	57.3
	MAXIMUM	105.8	102.9	104.3	63.1	61.7	62.4
	MEAN	90.3	92.0	91.1	60.6	59.3	60.0

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

STD = AVG. OF TWO MASON ENTRIES

LAB NO.	ENTRY	SOFT. EQUIV. %			FLOUR YIELD %		
		REGION 1	REGION 2	MEAN	REGION 1	REGION 2	MEAN
1	Coker 9835	64.6	59.2	61.9	71.8	72.1	71.9
2	Coker 9663	54.3	49.4	51.8	70.9	70.8	70.9
3	Mason	62.7	59.3	61.0	70.9	71.4	71.1
4	AGS2000	61.1	54.3	57.7	72.9	73.4	73.2
5	S9412192	56.2	55.4	55.8	67.8	68.7	68.2
6	LA90518PB43-3-1-4	61.0	56.7	58.8	72.4	72.7	72.5
7	LA90185G3-1-3-4-2	61.1	57.8	59.5	71.0	71.9	71.4
8	VA98W-593	55.9	50.9	53.4	70.6	70.6	70.6
9	NC96-13155	55.0	52.0	53.5	73.3	74.1	73.7
10	NC96-13965	60.6	56.0	58.3	72.5	73.1	72.8
11	B950943	55.7	52.1	53.9	71.4	71.7	71.5
12	TX96D1320	55.2	52.2	53.7	70.8	70.9	70.8
13	TX97D6737	58.3	53.0	55.7	73.0	73.9	73.5
14	TX91-57	58.5	49.4	53.9	69.8	70.1	69.9
15	AR839-27-1-3	57.6	55.0	56.3	73.1	73.3	73.2
16	AR839-25-8-2	56.2	49.9	53.0	73.2	72.5	72.8
17	AR-LA85411	56.9	55.1	56.0	72.6	73.3	73.0
18	LA9397D5-3-3	59.6	55.6	57.6	71.8	72.9	72.3
19	TX98D2106	51.7	49.1	50.4	70.0	70.9	70.4
20	GF90524E1	61.3	55.3	58.3	69.8	70.0	69.9
21	GF92485E15	56.3	53.5	54.9	71.1	71.5	71.3
22	GF921221E16	58.0	53.6	55.8	71.7	71.1	71.4
23	NC96-13156	54.4	51.5	52.9	73.2	74.2	73.7
24	AW-D97-6075	55.0	52.4	53.7	70.0	71.0	70.5
25	AW-D97*6940	58.8	54.5	56.7	71.6	71.4	71.5
26	AW-D97*6961	58.9	56.3	57.6	69.4	70.1	69.8
27	AW-D97-6740	59.3	56.6	58.0	74.0	73.4	73.7
28	VA98W-591	60.7	55.4	58.1	70.8	71.3	71.0
29	VA99W-200	61.5	58.5	60.0	71.3	72.3	71.8
30	VA99W-169	62.6	59.6	61.1	70.9	71.9	71.4
31	TX97-167	61.2	58.4	59.8	71.5	72.3	71.9
32	SC952746	44.5	43.6	44.0	74.4	74.2	74.3
33	SC960057	56.4	55.0	55.7	72.5	73.5	73.0
34	B960208	59.0	54.7	56.8	71.3	71.5	71.4
35	B960457	60.4	59.2	59.8	72.2	72.5	72.3
36	B961378	55.0	50.3	52.7	71.9	72.0	72.0
37	G09088	57.7	58.1	57.9	71.6	73.0	72.3
38	G09091	61.3	60.3	60.8	72.4	73.4	72.9
39	G09080	61.3	59.0	60.2	71.8	72.9	72.4
40	G09138	59.1	58.0	58.6	71.2	71.6	71.4
41	F/G921188E43	58.8	57.8	58.3	70.5	70.6	70.6
42	MDV71-19	62.4	55.9	59.1	71.5	71.6	71.6
43	MDV26-30	56.0	53.9	55.0	70.3	70.4	70.4
	MINIMUM	44.5	43.6	44.0	67.8	68.7	68.2
	MAXIMUM	64.6	60.3	61.9	74.4	74.2	74.3
	MEAN	58.2	54.7	56.5	71.5	72.0	71.8

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

STD = AVG. OF TWO MASON ENTRIES

LAB NO.	ENTRY	FLOUR PROT. %			MICRO AWRC %		
		REGION 1	REGION 2	MEAN	REGION 1	REGION 2	MEAN
1	Coker 9835	8.33	9.14	8.7	59.4	58.6	59.0
2	Coker 9663	8.63	8.86	8.7	57.2	56.4	56.8
3	Mason	8.99	9.60	9.3	56.4	55.0	55.7
4	AGS2000	8.98	9.30	9.1	55.0	55.9	55.5
5	S9412192	9.63	9.61	9.6	65.7	64.5	65.1
6	LA90518PB43-3-1-4	9.50	10.00	9.8	59.6	55.3	57.4
7	LA90185G3-1-3-4-2	8.53	9.26	8.9	59.9	55.7	57.8
8	VA98W-593	8.77	9.98	9.4	59.7	59.4	59.5
9	NC96-13155	10.16	9.55	9.9	53.6	52.5	53.0
10	NC96-13965	9.06	9.28	9.2	52.8	52.0	52.4
11	B950943	8.87	8.75	8.8	56.8	58.2	57.5
12	TX96D1320	9.84	9.61	9.7	54.4	56.5	55.5
13	TX97D6737	9.97	9.83	9.9	53.3	56.0	54.6
14	TX91-57	8.63	9.84	9.2	58.7	58.4	58.5
15	AR839-27-1-3	9.58	9.24	9.4	52.9	54.6	53.7
16	AR839-25-8-2	9.60	9.59	9.6	54.6	56.4	55.5
17	AR-LA85411	9.54	8.98	9.3	57.6	53.9	55.7
18	LA9397D5-3-3	8.76	9.96	9.4	53.6	53.5	53.6
19	TX98D2106	10.64	10.63	10.6	57.4	57.2	57.3
20	GF90524E1	8.36	9.87	9.1	56.8	57.3	57.1
21	GF92485E15	9.69	10.03	9.9	55.2	56.5	55.8
22	GF921221E16	8.70	9.90	9.3	55.7	55.0	55.3
23	NC96-13156	10.08	9.52	9.8	53.0	51.8	52.4
24	AW-D97-6075	9.27	9.18	9.2	57.4	54.6	56.0
25	AW-D97*6940	9.20	9.62	9.4	57.9	55.5	56.7
26	AW-D97*6961	9.10	10.07	9.6	60.2	56.1	58.1
27	AW-D97-6740	10.21	9.59	9.9	56.1	53.6	54.9
28	VA98W-591	8.66	9.40	9.0	57.2	57.3	57.3
29	VA99W-200	8.45	8.35	8.4	52.7	56.1	54.4
30	VA99W-169	8.18	8.60	8.4	62.1	58.4	60.3
31	TX97-167	9.47	9.24	9.4	59.0	56.2	57.6
32	SC952746	9.95	10.11	10.0	59.7	61.5	60.6
33	SC960057	9.15	8.66	8.9	52.8	53.3	53.0
34	B960208	8.90	10.00	9.4	57.3	55.0	56.1
35	B960457	9.60	9.42	9.5	60.5	55.9	58.2
36	B961378	9.71	9.98	9.8	53.0	55.5	54.3
37	G09088	9.57	9.25	9.4	55.4	56.2	55.8
38	G09091	8.59	9.00	8.8	55.3	58.1	56.7
39	G09080	8.81	8.59	8.7	55.7	57.7	56.7
40	G09138	9.16	9.17	9.2	56.7	55.3	56.0
41	F/G921188E43	9.09	8.74	8.9	65.7	60.9	63.3
42	MDV71-19	9.26	10.02	9.6	62.7	57.5	60.1
43	MDV26-30	9.30	9.13	9.2	58.5	58.3	58.4
	MINIMUM	8.18	8.35	8.4	52.7	51.8	52.4
	MAXIMUM	10.64	10.63	10.6	65.7	64.5	65.1
	MEAN	9.22	9.45	9.3	57.1	56.4	56.7

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

STD = AVG. OF TWO MASON ENTRIES

LAB NO.	ENTRY	COOKIE DIAM. CM.			TOP GR.		
		REGION 1	REGION 2	MEAN	REGION 1	REGION 2	MEAN
1	Coker 9835	17.98	18.37	18.2	4	3	3.5
2	Coker 9663	17.82	17.65	17.7	4	5	4.5
3	Mason	17.56	17.88	17.7	4	4	4.0
4	AGS2000	17.68	18.35	18.0	3	5	4.0
5	S9412192	16.55	16.96	16.8	1	1	1.0
6	LA90518PB43-3-1-4	17.88	17.98	17.9	3	2	2.5
7	LA90185G3-1-3-4-2	17.34	17.76	17.6	2	3	2.5
8	VA98W-593	17.58	17.44	17.5	4	3	3.5
9	NC96-13155	17.92	18.28	18.1	5	5	5.0
10	NC96-13965	18.06	18.44	18.3	3	4	3.5
11	B950943	17.87	18.21	18.0	5	5	5.0
12	TX96D1320	17.33	17.73	17.5	2	4	3.0
13	TX97D6737	17.98	18.27	18.1	3	3	3.0
14	TX91-57	17.36	16.92	17.1	1	4	2.5
15	AR839-27-1-3	17.68	17.48	17.6	3	3	3.0
16	AR839-25-8-2	17.71	17.68	17.7	3	2	2.5
17	AR-LA85411	18.06	18.44	18.3	4	5	4.5
18	LA9397D5-3-3	18.28	18.61	18.4	5	4	4.5
19	TX98D2106	17.11	17.54	17.3	3	3	3.0
20	GF90524E1	17.67	17.77	17.7	2	3	2.5
21	GF92485E15	17.19	17.63	17.4	1	3	2.0
22	GF921221E16	17.40	17.89	17.6	2	3	2.5
23	NC96-13156	17.81	18.21	18.0	3	6	4.5
24	AW-D97-6075	17.52	18.08	17.8	3	4	3.5
25	AW-D97*6940	17.35	17.95	17.7	2	4	3.0
26	AW-D97*6961	18.00	18.13	18.1	3	4	3.5
27	AW-D97-6740	17.56	17.96	17.8	2	3	2.5
28	VA98W-591	17.85	18.03	17.9	4	4	4.0
29	VA99W-200	18.18	18.10	18.1	5	3	4.0
30	VA99W-169	17.41	18.22	17.8	3	3	3.0
31	TX97-167	17.13	17.70	17.4	1	3	2.0
32	SC952746	16.55	16.21	16.4	5	4	4.5
33	SC960057	18.19	18.12	18.2	4	4	4.0
34	B960208	17.87	17.78	17.8	4	3	3.5
35	B960457	17.44	17.69	17.6	2	2	2.0
36	B961378	18.18	18.46	18.3	4	5	4.5
37	G09088	17.84	18.28	18.1	4	4	4.0
38	G09091	18.30	18.34	18.3	6	6	6.0
39	G09080	18.49	18.34	18.4	6	5	5.5
40	G09138	17.85	17.76	17.8	5	3	4.0
41	F/G921188E43	17.27	17.73	17.5	2	4	3.0
42	MDV71-19	17.80	17.88	17.8	3	2	2.5
43	MDV26-30	17.20	17.51	17.4	4	4	4.0
	MINIMUM	16.55	16.21	16.4	1	1	1.0
	MAXIMUM	18.49	18.61	18.4	6	6	6.0
	MEAN	17.67	17.90	17.8	3	4	3.5

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

STD = AVG. OF TWO MASON ENTRIES

LAB NO.	ENTRY	LACTIC ACID RET'N		MEAN
		REGION 1	REGION 2	
1	Coker 9835	107.0	112.3	109.7
2	Coker 9663	138.6	125.9	132.3
3	Mason	135.2	130.9	133.0
4	AGS2000	125.4	112.6	119.0
5	S9412192	111.1	93.9	102.5
6	LA90518PB43-3-1-4	126.3	110.8	118.5
7	LA90185G3-1-3-4-2	112.6	111.7	112.2
8	VA98W-593	146.5	140.7	143.6
9	NC96-13155	118.3	116.9	117.6
10	NC96-13965	141.1	132.7	136.9
11	B950943	144.8	131.1	138.0
12	TX96D1320	147.7	119.6	133.7
13	TX97D6737	140.6	114.4	127.5
14	TX91-57	153.2	124.8	139.0
15	AR839-27-1-3	138.1	133.1	135.6
16	AR839-25-8-2	139.5	131.0	135.3
17	AR-LA85411	148.1	143.6	145.9
18	LA9397D5-3-3	141.6	125.6	133.6
19	TX98D2106	117.2	113.0	115.1
20	GF90524E1	122.6	121.9	122.2
21	GF92485E15	131.2	116.4	123.8
22	GF921221E16	144.7	114.1	129.4
23	NC96-13156	112.7	117.0	114.8
24	AW-D97-6075	147.4	138.4	142.9
25	AW-D97*6940	139.9	130.4	135.1
26	AW-D97*6961	117.7	100.3	109.0
27	AW-D97-6740	159.3	142.7	151.0
28	VA98W-591	143.7	133.0	138.3
29	VA99W-200	142.3	123.7	133.0
30	VA99W-169	163.2	141.7	152.5
31	TX97-167	153.8	148.3	151.0
32	SC952746	109.9	97.2	103.5
33	SC960057	117.6	113.3	115.5
34	B960208	120.4	110.4	115.4
35	B960457	118.3	109.3	113.8
36	B961378	119.7	105.8	112.7
37	G09088	135.6	118.0	126.8
38	G09091	134.7	117.0	125.9
39	G09080	124.2	112.7	118.5
40	G09138	134.3	113.6	123.9
41	F/G921188E43	109.9	97.6	103.7
42	MDV71-19	117.4	102.4	109.9
43	MDV26-30	166.2	136.4	151.3
	MINIMUM	107.0	93.9	102.5
	MAXIMUM	166.2	148.3	152.5
	MEAN	133.0	120.6	126.8