UNITED STATES DEPARTMENT OF AGRICULTURE
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State Agricultural Experiment Stations, Cooperating

1999 - 2000

UNIFORM SOUTHERN SOFT RED WINTER WHEAT NURSERY

Report

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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 co ntaining 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, 2000

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1999-2000 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	AGS 2000	Pio.2551/PF84301//FL 302	Check	97-98
5	SC921285	SL4/67-78/7/Tift72-60/Arthur 71//Gabota/3/LourinLL/4/ Tift72-60/Arthur 71/5/Beau/6/C76-22/8/Brule	D.Graham	97-98
6	SC921299	SL4/67-78/7/Tift72-60/Arthur 71//Gabota/3/LourinLL/4/ Tift72-60/Arthur 71/5/Beau/6/C76-22/8/Brule	D.Graham	97-98
7	S9412192	FL7925-G47-J10/FL8062-E4-H7-J1	D.Graham	98-99
8	LA90115C25-3-6-2	C9733/OWW76113*-02H//C9835	S.Harrison	99-00
9	LA90518PB43-3-1-4	FR81-19/Saluda,GA8665//FL85238,Morey sib	S.Harrison	99-00
10	LA8983B14-3-1-4	C9835/Hickory	S.Harrison	99-00
11	LA90185G3-1-3-4-2	FL85363-G21/C9835	S.Harrison	99-00
12	VA96W-270	VA88-54-612 (Massey*2/Balkan)/FFR511W	C.Griffey	99-00
13	VA97W-206	VA88-54-338 (Lovrin29/Tyler//Redcoat*2/Gaines)/ VA89-52-39 (Saluda/Massey)	C.Griffey	99-00
14	VA98W-593	IN71761A4-31-5-48//VA7154-147/McNair1813/AL870365(C747*2/Amigo)	C.Griffey	99-00
15	AW-M96*4403	Gk Sagvari/AP-E87-1464	B.Fogleman	99-00
16	AW-D97-6750	Coker 9803/AP-89D-4776	B.Fogleman	99-00
17	AW-M94*1626-7	RHW3015/AP-SW85*36	B.Fogleman	99-00
18	NC96-13155	C8629//Stella/CHD45680/3/C8622	P.Murphy	99-00
19	NC96-13965	C8629//Stella/CHD45680/3/C8622	P.Murphy	99-00
20	B950590	AL850106//McNair 1003/FL302	J.Hancock	99-00
21	B950904	AL850046/Coker 983	J.Hancock	99-00
22	B950943	C86-27//FL302/Rosen	J.Hancock	99-00
23	TX96D1320	C87-13WH/RL6048//Siete Cerros/Niki	D.Marshall	99-00
24	TX97D4556	Adder//TX84U4408/Pavon 76	D.Marshall	99-00
25	TX97D6719	Pioneer 2548/Coker 9134	D.Marshall	99-00
26	TX97D6737	TX85-264/AL870573	D.Marshall	99-00
27	TX91-27	VA85-54-290/FL85377G3-26	L.Nelson	99-00
28	TX91-57	Gore/FL85377G3-26	L.Nelson	99-00
29	AR656-5-1	Corin/3/FL302//Coker 833/Hunter	R.Bacon	99-00
30	AR647-1-6	Cardinal//Coker 9227/Keiser	R.Bacon	99-00
31	GA90552AE33	GA831276 (Saluda/FL74265/GA861278 (FL302/Gore)	J.Johnson	99-00
32	GA93059LE6	Morey/GA85165//GA881419	J.Johnson	99-00
33	GA91426E39	GA841474 (C797/Oasis//Saluda/C916)/Stuckey	J.Johnson	99-00

LOCATION NOTES

Belle Mina, Alabama

cooperators:	Kathryn M. Glass
	Auburn University
planted:	November 5, 1999
harvested:	June 13, 2000
fertilizer:	80 lbs
comments:	Warm winter.

Bay, Arkansas

cooperators:	June Hancock, Craig Allen, David Hill
	Novartis Seeds, Inc.
planted:	October 16, 1999
harvested:	June 7, 2000
comments:	Stripe rust sums it up. Dry fall, warm winter, cool spring.

DeWitt, Arkansas

cooperators:	Barton Fogleman, Michael Montgomery
	AgriPro Wheat
planted:	October 21, 1999
harvested:	June 3, 2000

Fayetteville, Hope, Keiser, Kibler, Arkansas

cooperators:	Eugene A. Milus
	University of Arkansas
comments:	Stripe rust: average of 2 reps at Kibler, taken on April 6 (flag leaf emerged) and April 17 (post flowering; stripe rust was the only significant disease. Viruses: average of 3 reps from artificially infested soilborne virus nursery at Keiser; ratings averaged over notes taken on March 7 (jointing stage) and March 29 (flag leaf emergence), with 0=no disease and 9=severe stunting and chlorosis; plant vigor estimated visually on May 16 (soft dough) with 0=dead plants and 9=maximum yield potential; plant height measured on May 16. Powdery mildew: average of 2 reps; data at Hope and Fayetteville taken on April 17 (milk) and May 5 (milk), respectively. Leaf rust: average of 2 reps taken at Fayetteville on May 22 (late soft dough); leaf rust was not uniform and some plants were beginning to senesce.

Keiser, Arkansas

cooperators:	Robert K. Bacon, John Kelly
	University of Arkansas
planted:	October 18, 1999
harvested:	June 13, 2000
fertilizer:	150-46-0
comments:	Yields were very high for this location.

Marianna, Florida

cooperators:	Ronald D. Barnett, L. Schell
	University of Florida
planted:	November 19, 1999
fertilizer:	75-50-75
comments:	Powdery mildew is average of 2 reps.

Quincy, Florida

cooperators:	Ronald D. Barnett, L. Schell University of Florida
planted:	November 29, 1999
fertilizer:	75-50-75
comments:	Powdery mildew is average of 2 reps.

Griffin, Georgia

cooperators:	Jerry Johnson, Barry Cunfer University of Georgia
planted:	November 4, 1999
harvested:	May 31, 2000
fertilizer:	90N

Plains, Georgia

cooperators:	Jerry Johnson, Barry Cunfer University of Georgia
planted:	November 11, 1999
harvested:	May 22, 2000
fertilizer:	90N
comments:	Exceptionally high yields and test weights. High amounts of leaf rust and Hessian fly.

Aberdeen, Idaho

cooperators:	Charles Erickson, Scott McNeil, Harold Bockelman USDA-ARS National Small Grains Collection
planted:	September 21, 1999
harvested:	July 17, 2000
comments:	Mild winter.

Lafayette, Indiana

cooperators:	Gordon Cisar Cargill
planted:	October 5, 1999
harvested:	July 2, 2000
comments:	ANOVA over 1 rep at each of 2 locations. West Lafayette replicate with heavy and early leaf rust infestation, and low yield (44bu/A). South Lafayette rep with later leaf rust infestation, good lodging pressure, and high yield (94bu/A). Test weight values from high yield location.

West Lafayette, Indiana

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

Haven, Kansas

cooperators:	Sid Perry Cargill

Manhattan, Kansas

cooperators:	Lucretia Coonrod, Allan K. Fritz Kansas State University

Lexington, Kentucky

cooperators:	David A. Van Sanford, S. Swanson, B. Kennedy University of Kentucky
planted:	October 25, 1999
harvested:	July 3, 2000
fertilizer:	P,K according to soil test; 45N at GS3; 60N at GS5
comments:	Harvest was delayed by rain, resulting in lower test weights. Leaf rust: N/A means flag leaves gone. Virus complex: spindle streak and wheat streak. Virus ratings: 0=none, 3=VS.

Logan County, Kentucky

cooperators:	David A. Van Sanford, S. Swanson, B. Kennedy University of Kentucky
planted:	October 20, 1999
harvested:	June 13, 2000
fertilizer:	P,K according to soil test; 45N at GS3; 60N at GS5

Baton Rouge, Louisiana

cooperators:	Stephen A. Harrison, K. Arceneaux Louisiana State University
planted:	November 22, 1999
harvested:	May 15, 2000
fertilizer:	16-48-48 + 90-0-0
comments:	Very warm winter and dry spring. Only 10" rainfall for January to May, normal is about 30". Lots of lodging early (milk stage), possibly related to minor freeze damage. There was a 37 day range in heading, which led to high yield CV's and low test weights. Severe bacterial streak occurred following heavy winds with storms in mid-grainfill.

Queenstown, Maryland

cooperators:	Jose Costa, Emma Shirley University of Maryland
planted:	October 13, 1999
harvested:	June 26, 2000
fertilizer:	fall 15-40-90; spring 80N
comments:	Wet fall, warm winter, hot spring. Rains came late after heading.

St. Paul, Minnesota

cooperators:	Dave Long, Don McVey USDA-ARS Cereal Disease Lab
comments:	Adult plant field reaction to leaf rust and stem rust (McVey) and seedling reaction to leaf rust (Long).

Portageville, Missouri

cooperators:	Anne L. McKendry, David N. Tague University of Missouri
planted:	October 22, 1999
harvested:	June 9, 2000
fertilizer:	fall 40N; spring 80N
comments:	Very mild winter. Conditions at planting and throughout most of the season were extraordinarily dry. Serological tests were positive for both wheat streak and wheat spindle streak viruses. Fungal pressure was low although data were taken for powdery mildew (%canopy), which was heavy on a few varieties. Hail on April 25 may have impacted yields of varieties that headed prior to 114. The crop was harvested early and prior to any rain.

Cleveland, Mississippi

cooperators:	Barton Fogleman, Michael Montgomery AgriPro Wheat
planted:	October 25, 1999
harvested:	May 27, 2000

Raymond, Mississippi

cooperators:	Bernie White, Larry Trevathan Mississippi State University

Lincoln, Nebraska

cooperators:	Robert A. Graybosch USDA-ARS Wheat, Sorghum, and Forage Research Unit
comments:	Provided the 1RS data.

Kinston, North Carolina

cooperators:	Paul Murphy North Carolina State University
planted:	October 29, 1999
harvested:	June 1, 2000
fertilizer:	120N
comments:	Warm winter, hot and dry prior to senescence. Unusually heavy Hessian fly (biotype L predominated). "Hessian fly" data are visual estimates of damage just as regrowth started in February. A good test overall.

Raleigh, North Carolina

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

Wooster, Ohio

cooperators:	Pat Lipps, Larry Herald Ohio State University, OARDC
planted:	September 28, 1999
harvested:	July 6, 2000
fertilizer:	200# 6-24-24

Wooster, Ohio

cooperators:	Charles Gaines USDA-ARS Soft Wheat Quality Lab
comments:	Quality data. Region 1 (interior, lower leaf rust): Keiser AR, Griffin GA, Queenstown MD, Clemson SC, Warsaw VA, Belle Mina AL. Region 2 (warmer, higher leaf rust): Brooksville MS, Florence SC, Marianna FL, Quincy FL, Kinston NC, Plains GA. Lactic Acid Absorption: higher values equal stronger protein.

Enid, Oklahoma

cooperators:	Brett F. Carver, Melisa Rice Oklahoma State University
comments:	Standard used to set scale for acid soil tolerance was 2163, with an assigned value of 2 on a scale of 1 (tolerant) to 5 (susceptible).

Clemson, South Carolina

cooperators:	W. Doyce Graham, Jr. Clemson University
planted:	November 5, 1999
harvested:	June 1, 2000
fertilizer:	fall 30-75-40; spring 50N

Florence, South Carolina

cooperators:	W. Doyce Graham, Jr. Clemson University
planted:	November 17, 1999
harvested:	May 30, 2000
fertilizer:	fall 30-80-75; spring 50N

Knoxville, Tennessee

cooperators:	Dennis West University of Tennessee
planted:	October 15, 1999
harvested:	June 23, 2000
fertilizer:	60-75-75
comments:	Take-all occurred non-uniformly throughout the plots, affecting yield and test weight. LSD for take-all is 24.

Overton, Texas

cooperators:	Lloyd R. Nelson Texas A&M University
planted:	October 19, 1999
harvested:	May 12, 2000
fertilizer:	106N-178P-178K

Prosper, Texas

cooperators:	David S. Marshall Texas A&M University
planted:	October 18, 1999
harvested:	June 2, 2000
fertilizer:	100N
comments:	Leaf rust data also collected at Beeville. Vernalization response at Beeville: 1=no vernalization, 2=vernalized, but late maturing, 3=completely vernalized.

Warsaw, Virginia

cooperators:	Carl A. Griffey Virginia Tech
planted:	October 26, 1999
harvested:	June 20, 2000
fertilizer:	preplant 30-80-100; 12/17 25-0-0-3; 2/23 35-0-0-4; 3/25 60-0-0-7 topdress
comments:	Belgian lodging scale = area x intensity x 0.2; area is rated on a scale of 1 (plots unaffected) to 10 (entire plot affected); intensity is rated on a scale from 1 (plants standing upright) to 5 (plants lying totally flat). Juvenile Plant Growth Habit: 0=prostrate, 5=very erect. Powdery mildew and BYDV data from single rep test at Blacksburg.

YIELD (bu/acre)

		Belle Mina AL #	rank	Bay AR #@	rank	DeWitt AR #@	rank	Keiser AR #@	rank	Marianna FL #@	rank
1	Coker 9835	86.9	5	57.6	29	47.5	27	79.2	29	72.5	7
2	Coker 9663	84.9	8	78.1	7	60.9	10	108.4	4	70.5	9
3	Mason	78.4	21	83.7	2	53.6	20	102.4	8	63.4	21
4	AGS 2000	88.5	4	78.4	6	69.9	2	111.9	2	72.9	5
5	SC921285	78.6	20	59.0	25	44.5	31	81.7	26	73.8	3
6	SC921299	78.7	19	58.6	26	46.7	28	87.4	21	61.2	26
7	S9412192	83.9	12	66.8	16	45.1	30	95.6	14	61.9	24
8	LA9115C25-3-6-2	77.4	23	65.2	19	62.4	9	94.0	16	61.2	27
9	LA90518PB43-3-1-4	90.6	3	87.9	1	68.6	4	110.8	3	62.4	23
10	LA8983B14-3-1-4	79.5	18	58.5	27	43.7	32	71.3	32	67.0	16
11	LA90185G3-1-3-4-2	90.9	2	63.7	21	71.3	1	104.0	6	78.7	2
12	VA96W-270	77.2	24	79.3	5	47.8	26	95.1	15	70.2	10
13	VA97W-206	94.8	1	70.6	12	65.6	6	105.0	5	68.1	15
14	VA98W-593	77.1	25	83.6	3	65.1	7	116.1	1	82.8	1
15	AW-M96*4403	76.2	27	65.6	18	65.8	5	93.5	17	66.2	17
16	AW-D97-6750	79.7	17	69.0	13	59.4	11	98.1	11	57.2	31
17	AW-M94*1626-7	65.2	33	79.7	4	69.1	3	101.0	9	58.8	28
18	NC96-13155	80.8	14	59.1	24	49.5	24	88.5	19	69.8	11
19	NC96-13965	80.4	15	49.8	33	45.2	29	82.1	25	66.0	18
20	B950590	84.6	11	57.7	28	55.7	15	87.9	20	72.8	6
21	B950904	86.2	6	61.3	22	58.9	13	84.4	24	69.4	12
22	B950943	85.8	7	68.8	14	51.4	22	86.6	23	73.3	4
23	TX96D1320	70.8	31	55.5	30	53.9	18	90.3	18	61.3	25
24	TX97D4556	74.4	29	64.2	20	53.9	19	97.2	12	63.4	22
25	TX97D6719	72.8	30	60.6	23	49.8	23	75.1	31	58.2	29
26	TX97D6737	76.3	26	71.8	11	52.1	21	80.1	28	68.5	14
27	TX91-27	69.5	32	54.4	31	49.4	25	80.3	27	49.4	33
28	TX91-57	84.8	9	67.7	15	54.9	17	87.1	22	56.6	32
29	AR656-5-1	77.7	22	72.7	10	62.7	8	96.9	13	57.5	30
30	AR647-1-6	74.6	28	77.3	9	55.0	16	.		64.9	20
31	GA90552AE33	84.7	10	66.0	17	59.0	12	103.6	7	72.3	8
32	GA93059LE6	81.9	13	51.1	32	31.8	33	76.5	30	65.7	19
33	GA91426E39	80.1	16	77.7	8	56.0	14	99.4	10	69.0	13
LOCATION MEANS		80.4		67.3		55.3		92.9		66.3	
LSD (.05)				6.7		10.1		10.5		9.4	
CV %				6.1		8.9		6.9		8.64	
REPS		4		3		2		3		3	
Harvest Plot Size (sq.ft.)		100		58.9		52		40.8		61.65	

YIELD (bu/acre)

		Quincy FL #	rank	Griffin GA #@	rank	Plains GA #@	rank	Aberdeen ID @	rank	Lafayette IN	rank
1	Coker 9835	53.1	27	86.1	19	124.5	5	143.4	5	63.5	23
2	Coker 9663	65.2	8	94.5	13	108.1	20	115.2	25	72.7	13
3	Mason	60.1	15	84.8	22	100.3	25	124.6	14	80.4	4
4	AGS 2000	72.9	5	110.5	1	125.7	2	143.7	4	74.8	7
5	SC921285	65.1	9	83.5	23	93.7	28	122.2	18	72.2	15
6	SC921299	58.6	17	89.4	16	101.3	24	124.6	15	72.7	12
7	S9412192	55.6	20	79.7	29	107.7	21	111.5	27	62.6	25
8	LA9115C25-3-6-2	48.6	30	82.9	24	112.4	13	121.6	19	64.9	21
9	LA90518PB43-3-1-4	62.8	12	99.1	7	117.2	9	104.9	29	73.9	11
10	LA8983B14-3-1-4	54.8	22	89.3	17	111.9	16	135.3	7	65.2	20
11	LA90185G3-1-3-4-2	55.6	21	105.6	3	125.0	3	130.8	10	63.1	24
12	VA96W-270	76.3	1	98.5	9	125.0	4	103.1	31	81.7	3
13	VA97W-206	69.8	6	97.0	11	116.2	10	145.0	2	84.6	1
14	VA98W-593	74.9	2	90.6	15	123.8	6	115.7	23	82.0	2
15	AW-M96*4403	66.7	7	78.9	30	112.1	15	131.1	9	75.7	6
16	AW-D97-6750	34.2	33	81.8	25	76.0	33	111.2	28	59.7	29
17	AW-M94*1626-7	48.9	29	75.5	32	109.0	18	115.7	24	79.5	5
18	NC96-13155	57.4	18	101.6	4	112.8	12	127.2	11	69.2	17
19	NC96-13965	54.1	25	98.6	8	102.2	23	121.6	20	56.2	32
20	B950590	51.0	28	96.1	12	112.3	14	133.7	8	63.5	22
21	B950904	53.5	26	85.2	20	78.0	32	142.0	6	74.3	10
22	B950943	73.0	4	85.0	21	109.8	17	144.1	3	62.0	27
23	TX96D1320	54.3	24	66.3	33	92.5	29	147.0	1	56.4	31
24	TX97D4556	54.6	23	77.2	31	90.5	30	125.3	12	60.1	28
25	TX97D6719	48.6	31	80.6	28	90.3	31	120.5	21	70.9	16
26	TX97D6737	59.9	16	89.1	18	108.6	19	102.5	32	68.1	18
27	TX91-27	37.3	32	93.0	14	96.3	26	99.0	33	52.5	33
28	TX91-57	56.4	19	98.2	10	115.6	11	122.9	17	62.0	26
29	AR656-5-1	61.9	13	81.4	26	96.3	27	125.2	13	74.7	8
30	AR647-1-6	62.9	11	80.7	27	102.5	22	112.4	26	72.3	14
31	GA90552AE33	74.2	3	106.3	2	120.2	8	119.2	22	74.4	9
32	GA93059LE6	61.4	14	100.6	5	127.5	1	123.6	16	56.9	30
33	GA91426E39	63.5	10	99.4	6	120.5	7	103.8	30	67.6	19
LOCATION MEANS		59.0		89.9		108.1		123.3		68.8	
LSD (.05)		9.9		11.3		10.4		15.16		22.6	
CV %		10.25		8		7.4		8.9		16.9	
REPS		3		3		3		4		2	
Harvest Plot Size (sq.ft.)		61.65		50		50		18.67		40	

YIELD (bu/acre)

		Haven KS @	rank	Manhattan KS	rank	Lexington KY #@	rank	Logan Co. KY #@	rank	Baton Rouge LA #	rank
1	Coker 9835	54.0	9	54.5	20	74.9	17	61.3	20	50.6	12
2	Coker 9663	54.3	8	47.5	30	69.1	23	75.2	6	61.8	4
3	Mason	63.5	3	52.6	27	79.4	10	58.0	25	61.2	5
4	AGS 2000	50.1	14	66.5	2	84.3	6	60.1	21	66.9	2
5	SC921285	46.9	20	51.6	29	52.3	31	36.6	33	39.4	19
6	SC921299	49.5	16	57.4	10	55.6	29	49.5	30	32.4	22
7	S9412192	51.0	13	41.2	32	56.7	28	36.8	32	42.0	15
8	LA9115C25-3-6-2	68.4	2	52.0	28	76.2	15	67.0	12	47.1	14
9	LA90518PB43-3-1-4	41.4	25	53.7	24	61.2	26	58.2	24	68.5	1
10	LA8983B14-3-1-4	53.8	10	54.0	22	78.3	12	59.3	22	60.2	6
11	LA90185G3-1-3-4-2	44.2	23	54.0	21	77.1	14	54.4	29	40.7	16
12	VA96W-270	56.2	5	53.5	26	88.2	4	66.0	15	59.5	8
13	VA97W-206	74.2	1	69.6	1	89.6	3	87.6	1	29.8	24
14	VA98W-593	53.7	11	63.2	4	94.5	1	87.3	2	39.4	20
15	AW-M96*4403	36.1	32	63.2	3	75.2	16	65.4	16	10.3	33
16	AW-D97-6750	50.0	15	54.9	18	85.8	5	66.3	14	37.0	21
17	AW-M94*1626-7	38.3	29	56.3	12	93.6	2	82.2	3	29.5	26
18	NC96-13155	39.9	28	57.8	9	81.3	8	68.2	11	40.2	17
19	NC96-13965	48.0	19	56.1	14	68.0	24	66.7	13	24.3	30
20	B950590	52.1	12	63.0	5	79.1	11	71.6	7	26.6	29
21	B950904	54.5	7	56.4	11	74.5	18	63.0	18	21.2	31
22	B950943	40.5	27	53.6	25	82.7	7	75.9	5	55.6	9
23	TX96D1320	45.0	22	61.4	6	49.6	33	54.6	28	27.1	28
24	TX97D4556	41.0	26	54.7	19	52.4	30	58.4	23	49.8	13
25	TX97D6719	38.3	30	55.2	17	73.2	20	61.8	19	29.7	25
26	TX97D6737	56.2	6	56.2	13	64.5	25	68.9	10	40.0	18
27	TX91-27	32.8	33	37.0	33	50.4	32	55.8	27	13.8	32
28	TX91-57	37.3	31	47.0	31	57.7	27	70.4	9	30.1	23
29	AR656-5-1	49.2	17	58.4	8	71.7	21	70.7	8	29.2	27
30	AR647-1-6	45.2	21	60.2	7	69.2	22	79.6	4	64.5	3
31	GA90552AE33	43.5	24	55.5	16	78.0	13	65.0	17	59.6	7
32	GA93059LE6	57.0	4	55.5	15	73.7	19	44.0	31	51.4	11
33	GA91426E39	48.3	18	53.7	23	80.5	9	57.2	26	55.3	10
LOCATION MEANS		48.9		55.4		72.7		63.7		42.3	
LSD (.05)		7.6				9.72		7.5		16.9	
CV %		9.2				9.82		6.95		28	
REPS				3		3		2		3	
Harvest Plot Size (sq.ft.)						40		40		57	

YIELD (bu/acre)

		Queenstown MD #	rank	Portageville MO #@	rank	Cleveland MS #@	rank	Raymond MS #	rank	Kinston NC #	rank
1	Coker 9835	60.1	13	51.8	9	60.6	22	55.4	18	58.1	14
2	Coker 9663	57.6	22	49.2	14	62.6	19	56.5	17	59.3	12
3	Mason	56.7	25	47.9	16	65.5	10	53.6	20	44.3	26
4	AGS 2000	64.5	6	55.7	5	72.3	4	94.0	2	69.2	2
5	SC921285	57.7	21	33.8	33	59.2	26	63.7	14	46.4	23
6	SC921299	54.0	29	38.3	32	56.8	29	73.0	8	40.6	27
7	S9412192	57.9	20	40.8	29	64.8	13	66.5	12	33.4	33
8	LA9115C25-3-6-2	61.3	10	55.9	3	72.4	3	46.1	26	59.5	11
9	LA90518PB43-3-1-4	69.8	3	43.3	26	74.7	1	84.3	6	60.3	9
10	LA8983B14-3-1-4	58.9	16	49.6	11	61.1	20	35.3	32	56.7	15
11	LA90185G3-1-3-4-2	67.1	4	49.5	12	68.9	6	64.2	13	47.1	22
12	VA96W-270	55.1	28	52.7	6	58.6	27	63.3	15	64.9	4
13	VA97W-206	65.2	5	60.3	1	72.4	2	57.5	16	55.8	16
14	VA98W-593	61.0	11	52.2	8	65.3	12	87.8	5	59.7	10
15	AW-M96*4403	56.8	24	47.2	20	64.7	14	81.7	7	53.6	19
16	AW-D97-6750	58.5	18	39.7	31	64.3	15	50.3	23	45.9	24
17	AW-M94*1626-7	62.1	8	50.6	10	66.1	8	39.8	30	53.1	20
18	NC96-13155	58.9	17	52.4	7	65.9	9	95.9	1	67.1	3
19	NC96-13965	55.4	27	47.4	18	63.0	18	42.3	28	70.2	1
20	B950590	61.3	9	56.0	2	63.1	17	71.3	10	61.5	7
21	B950904	59.4	15	55.9	4	71.5	5	49.9	24	62.9	6
22	B950943	60.0	14	45.8	21	67.0	7	52.7	21	63.3	5
23	TX96D1320	48.9	32	41.6	28	63.7	16	44.4	27	35.1	31
24	TX97D4556	52.4	30	42.0	27	59.4	25	39.8	31	35.9	30
25	TX97D6719	57.3	23	43.7	25	56.2	30	66.7	11	40.3	28
26	TX97D6737	60.8	12	44.1	23	50.1	32	72.2	9	45.2	25
27	TX91-27	42.7	33	40.4	30	49.9	33	55.4	19	39.1	29
28	TX91-57	70.1	2	49.4	13	50.7	31	51.8	22	61.0	8
29	AR656-5-1	51.9	31	47.4	19	60.3	24	93.0	3	54.8	18
30	AR647-1-6	56.2	26	48.7	15	61.0	21	41.6	29	34.3	32
31	GA90552AE33	70.7	1	43.9	24	65.4	11	92.9	4	50.2	21
32	GA93059LE6	62.2	7	45.2	22	58.1	28	48.6	25	55.3	17
33	GA91426E39	58.2	19	47.5	17	60.3	23	18.6	33	58.1	13
LOCATION MEANS		59.1		47.6		62.9		60.9		52.8	
LSD (.05)		9.9		5.2		9.7				10.9	
CV %		10.25		6.7		7.6				12.9	
REPS		3		3		2				3	
Harvest Plot Size (sq.ft.)		56		55.5		52				55	

YIELD (bu/acre)

		Wooster OH @	rank	Clemson SC #	rank	Florence SC #@	rank	Knoxville TN #	rank	Overton TX #@	rank
1	Coker 9835	73.4	20	74	6	71	20	64.7	13	85	20
2	Coker 9663	83.5	8	64	13	82	8	78.0	2	82	27
3	Mason	77.5	14	64	14	52	31	56.0	25	91	5
4	AGS 2000	89.4	4	90	1	84	5	69.6	8	101	1
5	SC921285	67.4	29	58	18	61	25	54.5	28	88	11
6	SC921299	70.8	26	56	22	64	22	61.3	15	84	22
7	S9412192	71.1	25	89	2	53	30	36.3	33	69	33
8	LA9115C25-3-6-2	77.4	15	68	8	61	26	60.1	19	88	12
9	LA90518PB43-3-1-4	75.4	18	57	20	75	17	65.9	10	86	16
10	LA8983B14-3-1-4	71.3	24	51	28	78	14	56.8	21	83	24
11	LA90185G3-1-3-4-2	79.1	12	83	3	76	16	61.3	16	101	2
12	VA96W-270	92.8	3	68	9	73	18	56.2	24	84	23
13	VA97W-206	98.4	1	76	5	89	4	74.6	5	91	6
14	VA98W-593	97.8	2	68	10	90	2	60.7	18	86	17
15	AW-M96*4403	84.4	6	40	32	63	23	46.9	31	83	25
16	AW-D97-6750	83.0	10	57	21	73	19	55.5	26	87	15
17	AW-M94*1626-7	83.2	9	61	16	66	21	54.7	27	89	10
18	NC96-13155	73.2	21	70	7	90	3	70.7	6	86	18
19	NC96-13965	71.9	23	68	11	92	1	56.6	22	85	21
20	B950590	78.4	13	54	23	83	7	66.1	9	90	8
21	B950904	76.5	17	60	17	81	9	81.1	1	86	19
22	B950943	72.7	22	53	24	81	10	56.3	23	88	13
23	TX96D1320	54.6	33	48	30	46	33	42.4	32	78	30
24	TX97D4556	59.3	32	43	31	50	32	59.9	20	80	29
25	TX97D6719	70.2	27	52	26	81	11	70.7	7	91	7
26	TX97D6737	65.2	30	50	29	60	27	65.6	12	70	32
27	TX91-27	69.7	28	35	33	78	15	60.8	17	83	26
28	TX91-57	84.2	7	52	27	81	12	75.4	4	94	3
29	AR656-5-1	80.7	11	53	25	62	24	53.4	30	93	4
30	AR647-1-6	73.8	19	58	19	55	29	75.5	3	72	31
31	GA90552AE33	88.7	5	79	4	80	13	65.9	11	90	9
32	GA93059LE6	62.8	31	64	15	56	28	54.0	29	82	28
33	GA91426E39	77.4	16	67	12	84	6	63.3	14	88	14
LOCATION MEANS		76.8		61.5		71.8		61.5		85.9	
LSD (.05)		7.8		11		10.3		17.20		9.2	
CV %		6.2		11.1		8.8		17.10		7.9	
REPS		3		3		3		3.00		3	
Harvest Plot Size (sq.ft.)				35		35		39.00		50	

YIELD (bu/acre)

		Prosper TX #	rank	Warsaw VA #@	rank	ENTRY MEANS ALL LOCATIONS	rank
1	Coker 9835	45.8	20	78.9	15	69.9	12
2	Coker 9663	50.6	10	80.1	11	73.0	9
3	Mason	54.9	3	77.9	19	69.9	13
4	AGS 2000	69.4	1	98.5	1	82.8	1
5	SC921285	43.8	22	66.7	29	63.0	29
6	SC921299	44.0	21	69.6	26	64.3	27
7	S9412192	40.2	26	71.0	24	62.6	30
8	LA9115C25-3-6-2	54.6	4	69.6	27	69.4	15
9	LA90518PB43-3-1-4	53.1	6	78.7	16	73.5	6
10	LA8983B14-3-1-4	40.2	27	72.2	22	66.5	22
11	LA90185G3-1-3-4-2	54.6	5	78.4	17	73.7	5
12	VA96W-270	48.7	17	88.9	5	73.5	7
13	VA97W-206	46.6	19	97.6	2	79.7	2
14	VA98W-593	53.1	7	96.5	3	78.8	3
15	AW-M96*4403	38.9	30	80.0	12	67.5	20
16	AW-D97-6750	41.9	25	80.9	9	65.1	26
17	AW-M94*1626-7	47.0	18	78.2	18	68.6	18
18	NC96-13155	50.1	12	89.1	4	73.1	8
19	NC96-13965	49.3	15	87.1	7	66.9	21
20	B950590	39.4	28	69.4	28	70.4	11
21	B950904	49.8	13	76.8	20	69.4	16
22	B950943	56.8	2	72.6	21	71.0	10
23	TX96D1320	36.7	31	51.1	33	58.4	32
24	TX97D4556	50.4	11	53.5	32	60.8	31
25	TX97D6719	39.3	29	71.0	25	63.9	28
26	TX97D6737	49.2	16	64.1	31	65.2	25
27	TX91-27	35.3	32	71.6	23	56.7	33
28	TX91-57	42.1	24	80.7	10	68.2	19
29	AR656-5-1	51.2	9	80.0	13	69.1	17
30	AR647-1-6	42.2	23	65.3	30	65.6	23
31	GA90552AE33	49.4	14	86.0	8	75.7	4
32	GA93059LE6	34.3	33	88.4	6	65.5	24
33	GA91426E39	51.5	8	80.0	14	69.9	14
LOCATION MEANS		47.1		77.3			
LSD (.05)		8.9		7.3			
CV %		11		7			
REPS		3		3			
Harvest Plot Size (sq.ft.)		54		45			

YIELD (bu/acre)

		ENTRY MEANS IN-REGION #		ENTRY MEANS CV <10% @	
			rank		rank
1	Coker 9835	68.2	13	76.4	16
2	Coker 9663	72.7	8	79.6	7
3	Mason	67.7	15	76.6	15
4	AGS 2000	82.3	1	88.0	2
5	SC921285	61.0	30	66.9	30
6	SC921299	61.9	28	69.2	28
7	S9412192	61.5	29	67.7	29
8	LA9115C25-3-6-2	67.8	14	77.2	14
9	LA90518PB43-3-1-4	74.3	5	77.8	13
10	LA8983B14-3-1-4	64.4	22	74.0	22
11	LA90185G3-1-3-4-2	73.5	6	81.7	4
12	VA96W-270	72.6	9	80.0	6
13	VA97W-206	76.4	3	89.2	1
14	VA98W-593	78.0	2	87.6	3
15	AW-M96*4403	65.1	21	75.8	18
16	AW-D97-6750	63.6	26	73.9	23
17	AW-M94*1626-7	67.3	17	78.5	9
18	NC96-13155	73.0	7	78.4	10
19	NC96-13965	66.1	20	74.7	21
20	B950590	68.7	12	78.7	8
21	B950904	66.8	19	76.2	17
22	B950943	70.2	10	77.8	12
23	TX96D1320	55.1	33	65.7	33
24	TX97D4556	59.2	31	66.7	31
25	TX97D6719	62.3	27	70.1	26
26	TX97D6737	64.1	24	69.7	27
27	TX91-27	56.4	32	65.8	32
28	TX91-57	67.6	16	75.5	19
29	AR656-5-1	67.2	18	75.5	20
30	AR647-1-6	63.9	25	70.8	25
31	GA90552AE33	75.6	4	80.4	5
32	GA93059LE6	64.3	23	71.5	24
33	GA91426E39	69.8	11	78.1	11

LOCATION MEANS
LSD (.05)
CV %
REPS
Harvest Plot Size (sq.ft.)

TEST WEIGHT (lbs/bu)

		Belle Mina AL	Bay AR	Keiser AR	Marianna FL	Quincy FL
1	Coker 9835	57.5	52.3	52.7	57.2	56.1
2	Coker 9663	59.4	57.6	59.5	61.3	60.3
3	Mason	59.4	58.7	59.4	58.8	58.3
4	AGS 2000	60.3	57.6	60.3	59.7	61.1
5	SC921285	61.0	58.8	55.9	61.8	62.2
6	SC921299	60.5	58.7	58.3	61.4	62.1
7	S9412192	60.0	56.8	58.2	55.6	55.9
8	LA9115C25-3-6-2	60.0	55.3	59.2	59.6	58.7
9	LA90518PB43-3-1-4	58.3	58.0	57.5	58.2	59.4
10	LA8983B14-3-1-4	58.9	53.6	54.0	58.5	59.3
11	LA90185G3-1-3-4-2	58.2	54.0	57.1	58.6	58.6
12	VA96W-270	59.2	60.0	58.9	60.3	60.6
13	VA97W-206	57.2	56.5	57.9	59.5	60.6
14	VA98W-593	61.4	61.3	61.9	63.4	63.2
15	AW-M96*4403	58.4	57.4	58.2	60.8	61.7
16	AW-D97-6750	61.1	60.7	61.3	61.3	61.2
17	AW-M94*1626-7	61.1	61.9	61.1	62.1	61.2
18	NC96-13155	60.6	58.8	60.0	61.2	61.9
19	NC96-13965	60.2	56.1	57.3	63.1	62.8
20	B950590	56.7	53.0	55.1	57.9	57.9
21	B950904	58.8	55.9	55.0	61.6	60.7
22	B950943	58.6	56.0	56.3	59.1	59.3
23	TX96D1320	57.5	53.4	54.4	59.1	58.5
24	TX97D4556	59.0	56.7	58.7	60.2	58.9
25	TX97D6719	59.6	58.1	56.6	62.2	61.2
26	TX97D6737	58.1	56.3	56.9	58.5	57.4
27	TX91-27	56.7	55.4	55.8	57.1	58.3
28	TX91-57	59.1	57.0	58.4	61.3	62.0
29	AR656-5-1	59.3	57.7	57.8	59.0	59.8
30	AR647-1-6	61.2	60.9	.	62.0	61.9
31	GA90552AE33	60.6	57.8	61.9	61.1	61.3
32	GA93059LE6	57.6	52.7	51.6	58.9	58.2
33	GA91426E39	59.7	58.4	58.9	60.3	60.8
LOCATION MEANS		59.2	57.1	57.7	60.0	60.0

TEST WEIGHT (lbs/bu)

		Griffin GA	Plains GA	Aberdeen ID	Lexington KY	Logan Co. KY
1	Coker 9835	58.1	58.1	61.6	51.9	53.1
2	Coker 9663	59.5	60.6	62.1	56.0	56.9
3	Mason	59.3	59.2	61.8	53.7	56.3
4	AGS 2000	60.6	60.3	62.0	55.2	55.8
5	SC921285	60.8	61.9	63.5	53.6	55.3
6	SC921299	61.7	61.9	63.6	53.6	57.5
7	S9412192	58.7	59.5	61.3	54.2	52.7
8	LA9115C25-3-6-2	59.8	60.2	61.5	53.2	57.4
9	LA90518PB43-3-1-4	59.1	59.7	61.9	53.6	56.9
10	LA8983B14-3-1-4	58.7	60.1	60.8	53.7	55.0
11	LA90185G3-1-3-4-2	59.2	59.8	61.4	52.8	54.1
12	VA96W-270	59.9	60.6	62.0	55.5	58.1
13	VA97W-206	58.8	59.0	61.6	54.7	57.0
14	VA98W-593	62.5	62.7	63.4	57.7	62.1
15	AW-M96*4403	58.8	59.0	61.6	55.2	56.7
16	AW-D97-6750	61.1	58.9	63.1	57.2	60.2
17	AW-M94*1626-7	61.0	61.7	62.2	58.5	60.9
18	NC96-13155	61.1	60.6	62.8	56.4	57.8
19	NC96-13965	61.1	60.8	62.9	55.5	57.7
20	B950590	57.9	58.7	61.7	51.6	56.2
21	B950904	59.8	57.8	62.1	54.4	57.6
22	B950943	59.2	58.8	61.5	55.5	57.3
23	TX96D1320	58.1	59.0	61.3	48.6	51.2
24	TX97D4556	59.9	61.2	61.8	51.2	55.8
25	TX97D6719	60.1	60.7	62.7	54.8	56.6
26	TX97D6737	58.9	60.4	61.7	54.3	56.7
27	TX91-27	58.4	58.5	61.0	49.6	54.4
28	TX91-57	60.0	60.5	62.0	52.7	57.6
29	AR656-5-1	59.2	58.1	61.2	55.2	55.9
30	AR647-1-6	60.8	61.3	62.8	55.7	59.8
31	GA90552AE33	61.6	62.9	62.8	55.8	59.6
32	GA93059LE6	60.9	60.9	61.9	52.1	54.8
33	GA91426E39	60.9	61.5	60.7	54.9	58.3
LOCATION MEANS		59.9	60.1	62.0	54.2	56.8

TEST WEIGHT (lbs/bu)

		Baton Rouge LA	Queenstown MD	Portageville MO	Cleveland MS	Raymond MS
1	Coker 9835	51.6	56.8	58.8	54.7	56
2	Coker 9663	55.7	57.7	61.5	58.5	58
3	Mason	55.8	57.1	59.8	57.9	57
4	AGS 2000	55.8	58.6	61.5	58.1	60
5	SC921285	55.4	57.6	59.6	58.7	59
6	SC921299	53.1	57.8	60.9	58.8	59
7	S9412192	49.6	55.7	60.8	57.3	56
8	LA9115C25-3-6-2	52.0	58.3	60.6	56.2	55
9	LA90518PB43-3-1-4	53.9	56.6	59.6	55.1	57
10	LA8983B14-3-1-4	55.0	57.3	59.0	57.1	56
11	LA90185G3-1-3-4-2	51.9	57.7	59.8	55.8	56
12	VA96W-270	55.1	57.5	62.0	58.9	58
13	VA97W-206	54.3	56.2	61.6	57.3	58
14	VA98W-593	56.5	59.5	64.5	58.8	61
15	AW-M96*4403	51.8	58.6	61.0	56.4	56
16	AW-D97-6750	53.2	59.4	63.7	60.0	58
17	AW-M94*1626-7	55.2	58.3	63.2	59.2	57
18	NC96-13155	54.3	58.6	62.6	58.2	60
19	NC96-13965	53.9	58.1	62.1	60.0	57
20	B950590	50.4	57.4	58.9	55.5	56
21	B950904	50.2	58.2	62.2	57.0	58
22	B950943	53.7	57.1	60.2	56.9	55
23	TX96D1320	49.8	56.7	59.3	57.3	54
24	TX97D4556	54.7	57.4	60.3	58.5	55
25	TX97D6719	49.7	58.6	61.5	58.6	59
26	TX97D6737	50.0	57.4	58.9	55.1	57
27	TX91-27	47.1	55.5	59.9	55.8	55
28	TX91-57	53.2	56.5	61.4	57.9	57
29	AR656-5-1	51.9	56.2	61.4	57.6	58
30	AR647-1-6	58.3	58.9	62.2	59.2	59
31	GA90552AE33	54.7	58.9	61.8	59.5	59
32	GA93059LE6	51.5	54.7	58.0	55.3	54
33	GA91426E39	51.6	55.7	62.0	56.1	56
LOCATION MEANS		53.1	57.5	60.9	57.5	57.2

TEST WEIGHT (lbs/bu)

		Kinston NC	Wooster OH	Clemson SC	Florence SC	Knoxville TN
1	Coker 9835	56.7	51.2	57	56	55.0
2	Coker 9663	57.7	55.7	62	60	57.3
3	Mason	57.4	55.4	58	57	55.6
4	AGS 2000	59.5	56.3	60	60	53.2
5	SC921285	58.7	55.8	61	59	53.7
6	SC921299	58.9	54.1	60	58	58.1
7	S9412192	54.9	52.2	58	56	55.5
8	LA9115C25-3-6-2	57.7	55.1	60	59	52.2
9	LA90518PB43-3-1-4	56.5	52.0	57	58	51.2
10	LA8983B14-3-1-4	57.3	53.2	60	57	56.1
11	LA90185G3-1-3-4-2	56.4	51.2	59	57	52.5
12	VA96W-270	57.7	56.1	59	59	53.3
13	VA97W-206	56.4	54.8	59	58	54.6
14	VA98W-593	60.6	58.0	62	62	60.9
15	AW-M96*4403	57.0	55.1	59	58	54.8
16	AW-D97-6750	59.9	56.2	62	61	55.4
17	AW-M94*1626-7	60.0	56.4	60	60	58.3
18	NC96-13155	59.5	55.5	61	61	55.1
19	NC96-13965	59.3	55.2	62	61	55.1
20	B950590	57.7	53.4	56	59	55.4
21	B950904	58.6	55.0	59	59	59.2
22	B950943	58.1	53.7	58	59	55.9
23	TX96D1320	53.4	51.0	58	54	52.3
24	TX97D4556	56.4	53.6	59	57	49.8
25	TX97D6719	57.8	55.2	61	61	51.2
26	TX97D6737	57.4	51.6	57	59	55.9
27	TX91-27	56.5	52.0	58	58	49.7
28	TX91-57	57.8	53.1	59	60	58.1
29	AR656-5-1	55.9	53.1	60	56	51.1
30	AR647-1-6	58.7	56.8	61	59	59.3
31	GA90552AE33	60.1	55.8	61	61	54.1
32	GA93059LE6	57.4	51.4	59	55	52.1
33	GA91426E39	59.2	55.0	60	60	50.4
LOCATION MEANS		57.8	54.2	59.5	58.6	54.6

TEST WEIGHT (lbs/bu)

		Overton TX	Prosper TX	Warsaw VA	ENTRY MEANS ALL LOCATIONS	
						rank
1	Coker 9835	55.0	53.6	57.3	55.6	31
2	Coker 9663	59.0	57.5	60.1	58.9	8
3	Mason	59.0	57.7	57.3	57.8	15
4	AGS 2000	60.0	57.9	59.1	58.8	9
5	SC921285	61.0	55.5	57.7	58.6	11
6	SC921299	61.0	54.5	58.0	58.8	10
7	S9412192	56.0	54.1	55.7	56.3	28
8	LA9115C25-3-6-2	59.0	56.0	58.8	57.6	18
9	LA90518PB43-3-1-4	58.0	55.6	55.8	56.9	26
10	LA8983B14-3-1-4	57.0	54.1	58.0	56.9	24
11	LA90185G3-1-3-4-2	58.0	57.0	58.1	56.7	27
12	VA96W-270	60.0	55.9	58.3	58.5	12
13	VA97W-206	58.0	52.7	57.9	57.5	21
14	VA98W-593	62.0	58.9	60.1	61.1	1
15	AW-M96*4403	57.0	51.4	58.4	57.5	19
16	AW-D97-6750	60.0	58.2	60.1	59.7	3
17	AW-M94*1626-7	57.0	58.0	59.9	59.7	2
18	NC96-13155	56.0	56.0	59.8	59.1	6
19	NC96-13965	57.0	56.4	60.1	58.9	7
20	B950590	56.0	51.3	57.9	56.2	29
21	B950904	58.0	54.4	57.3	57.8	16
22	B950943	57.0	57.1	58.5	57.5	20
23	TX96D1320	59.0	54.0	57.0	55.5	32
24	TX97D4556	60.0	55.0	57.8	57.3	22
25	TX97D6719	50.0	52.6	58.9	57.7	17
26	TX97D6737	58.0	55.8	56.9	56.9	25
27	TX91-27	51.0	51.1	56.0	55.2	33
28	TX91-57	57.0	53.9	56.8	57.9	13
29	AR656-5-1	56.0	53.6	58.5	57.1	23
30	AR647-1-6	60.0	56.3	58.1	59.7	4
31	GA90552AE33	61.0	57.9	60.6	59.6	5
32	GA93059LE6	56.0	48.4	55.9	55.6	30
33	GA91426E39	59.0	55.1	56.4	57.9	14
LOCATION MEANS		57.8	55.1	58.1		

KERNEL WEIGHT (grams)

		Belle Mina AL	Raymond MS
		100 kw	100 kw
1	Coker 9835	3.81	3.5
2	Coker 9663	3.95	4.3
3	Mason	4.43	4.4
4	AGS 2000	4.39	4.3
5	SC921285	3.35	3.3
6	SC921299	3.34	3.2
7	S9412192	4.91	3.8
8	LA9115C25-3-6-2	4.16	4.1
9	LA90518PB43-3-1-4	3.66	3.8
10	LA8983B14-3-1-4	3.02	2.9
11	LA90185G3-1-3-4-2	4.06	4.5
12	VA96W-270	4.05	4.1
13	VA97W-206	3.30	2.9
14	VA98W-593	3.49	3.9
15	AW-M96*4403	3.73	3.2
16	AW-D97-6750	3.44	3.2
17	AW-M94*1626-7	3.91	3.1
18	NC96-13155	3.58	4.0
19	NC96-13965	2.72	3.1
20	B950590	4.12	3.8
21	B950904	3.41	3.2
22	B950943	3.67	2.9
23	TX96D1320	3.83	3.1
24	TX97D4556	3.28	3.1
25	TX97D6719	3.66	3.2
26	TX97D6737	3.55	3.6
27	TX91-27	3.75	3.7
28	TX91-57	4.04	4.0
29	AR656-5-1	3.87	3.8
30	AR647-1-6	3.68	3.5
31	GA90552AE33	3.76	3.8
32	GA93059LE6	3.82	2.9
33	GA91426E39	3.62	3.6
LOCATION MEANS		3.74	3.6

HEADING DATE (Julian)

		Belle Mina AL	Bay AR	DeWitt AR	Keiser AR	Marianna FL
1	Coker 9835	103	103	93.5	112	82
2	Coker 9663	102	106	94.0	111	82
3	Mason	101	100	89.5	107	81
4	AGS 2000	101	99	89.5	107	82
5	SC921285	103	107	94.5	108	92
6	SC921299	102	106	96.5	109	95
7	S9412192	99	98	85.0	108	77
8	LA9115C25-3-6-2	103	106	91.0	110	80
9	LA90518PB43-3-1-4	101	107	89.5	109	84
10	LA8983B14-3-1-4	101	107	91.5	111	85
11	LA90185G3-1-3-4-2	101	107	91.0	109	81
12	VA96W-270	103	106	92.0	108	89
13	VA97W-206	104	110	102.0	113	100
14	VA98W-593	105	108	99.0	110	90
15	AW-M96*4403	105	110	101.0	114	101
16	AW-D97-6750	104	108	101.0	108	105
17	AW-M94*1626-7	108	112	>102.0	114	104
18	NC96-13155	110	111	99.0	113	101
19	NC96-13965	105	112	>102.0	114	101
20	B950590	105	109	101.0	113	92
21	B950904	105	109	98.5	109	95
22	B950943	104	110	95.0	113	87
23	TX96D1320	105	109	98.0	113	88
24	TX97D4556	102	107	91.5	108	87
25	TX97D6719	108	112	>102.0	114	105
26	TX97D6737	103	107	91.5	108	78
27	TX91-27	105	110	100.0	111	105
28	TX91-57	104	108	97.5	109	100
29	AR656-5-1	105	111	>102.0	112	92
30	AR647-1-6	105	111	>102.0	.	92
31	GA90552AE33	102	104	88.0	105	83
32	GA93059LE6	98	99	86.0	101	77
33	GA91426E39	101	105	90.0	105	79
LOCATION MEANS		103.4	107.1		109.9	90.1

HEADING DATE (Julian)

		Quincy FL	Griffin GA	Plains GA	Aberdeen ID	Manhattan KS
1	Coker 9835	86	98	85	145.0	126.5
2	Coker 9663	86	94	84	143.5	124.5
3	Mason	83	93	83	142.3	124.0
4	AGS 2000	85	94	85	143.0	125.0
5	SC921285	96	97	92	142.8	125.0
6	SC921299	99	97	93	142.8	124.0
7	S9412192	79	91	82	143.3	123.5
8	LA9115C25-3-6-2	84	96	85	145.8	126.0
9	LA90518PB43-3-1-4	85	93	85	144.3	125.0
10	LA8983B14-3-1-4	85	94	84	145.0	125.0
11	LA90185G3-1-3-4-2	83	94	85	144.8	126.5
12	VA96W-270	92	96	91	144.3	125.0
13	VA97W-206	98	98	102	145.5	125.5
14	VA98W-593	93	97	92	143.3	126.0
15	AW-M96*4403	105	97	102	143.5	125.0
16	AW-D97-6750	116	101	100	143.8	125.0
17	AW-M94*1626-7	106	103	102	145.3	127.5
18	NC96-13155	98	103	102	145.3	127.0
19	NC96-13965	106	102	102	145.8	128.0
20	B950590	99	100	100	143.0	125.0
21	B950904	103	100	104	146.0	126.0
22	B950943	90	96	101	145.5	127.5
23	TX96D1320	93	97	101	145.8	125.5
24	TX97D4556	89	97	89	143.8	124.0
25	TX97D6719	116	102	102	145.8	125.0
26	TX97D6737	82	94	85	143.8	125.5
27	TX91-27	116	101	102	144.3	126.0
28	TX91-57	101	101	100	144.0	124.5
29	AR656-5-1	99	102	98	146.0	126.0
30	AR647-1-6	92	100	100	144.5	126.0
31	GA90552AE33	82	96	85	143.3	124.0
32	GA93059LE6	79	89	82	142.3	123.5
33	GA91426E39	82	95	85	143.0	125.5
LOCATION MEANS		93.6	97.2	93.0	144.2	125.4

HEADING DATE (Julian)

		Lexington KY	BatonRouge LA	Queenstown MD	Portageville MO	Cleveland MS
1	Coker 9835	124	77	125.7	112.0	97.5
2	Coker 9663	124	78	125.0	111.0	95.0
3	Mason	122	80	141.3	110.3	91.8
4	AGS 2000	123	77	122.0	110.3	93.5
5	SC921285	123	99	123.0	110.0	99.0
6	SC921299	123	100	123.0	110.7	100.5
7	S9412192	124	71	150.7	109.7	90.5
8	LA9115C25-3-6-2	124	76	124.7	111.7	92.5
9	LA90518PB43-3-1-4	124	77	141.0	113.0	95.5
10	LA8983B14-3-1-4	124	76	124.0	110.0	93.5
11	LA90185G3-1-3-4-2	123	76	123.7	111.0	93.0
12	VA96W-270	123	83	123.0	110.7	98.5
13	VA97W-206	125	100	126.0	114.7	101.0
14	VA98W-593	124	92	124.7	114.3	101.5
15	AW-M96*4403	124	101	126.7	117.0	103.0
16	AW-D97-6750	123	106	123.7	114.0	100.0
17	AW-M94*1626-7	125	103	128.0	117.3	106.0
18	NC96-13155	125	97	127.0	115.3	104.0
19	NC96-13965	125	103	127.0	117.0	105.5
20	B950590	125	86	125.3	116.7	102.0
21	B950904	125	102	124.0	115.7	99.5
22	B950943	125	81	126.7	113.7	97.0
23	TX96D1320	125	85	127.0	113.3	101.0
24	TX97D4556	123	80	124.3	111.3	100.0
25	TX97D6719	127	106	127.3	117.7	107.5
26	TX97D6737	123	75	125.0	112.0	93.5
27	TX91-27	124	106	126.3	114.7	101.5
28	TX91-57	124	101	122.7	114.0	99.5
29	AR656-5-1	126	97	127.0	114.7	104.5
30	AR647-1-6	126	85	127.0	117.7	102.5
31	GA90552AE33	123	77	140.0	111.0	92.0
32	GA93059LE6	121	69	117.0	107.3	90.0
33	GA91426E39	123	73	140.7	113.7	93.0
LOCATION MEANS		124.0	87.7	127.6	113.1	98.3

HEADING DATE (Julian)

		Kinston NC	Wooster OH	Clemson SC	Knoxville TN	Overton TX
1	Coker 9835	99.0	136.3	106	114	67
2	Coker 9663	98.0	134.7	102	114	73
3	Mason	95.0	130.3	101	109	64
4	AGS 2000	96.0	131.0	102	110	68
5	SC921285	99.5	132.0	105	114	85
6	SC921299	101.0	132.3	105	116	86
7	S9412192	91.0	133.3	100	115	62
8	LA9115C25-3-6-2	98.5	136.0	105	115	73
9	LA90518PB43-3-1-4	99.0	133.7	103	115	73
10	LA8983B14-3-1-4	97.5	136.7	107	115	73
11	LA90185G3-1-3-4-2	99.5	134.7	104	111	73
12	VA96W-270	100.5	131.7	105	114	74
13	VA97W-206	104.0	135.0	107	119	87
14	VA98W-593	102.5	133.7	107	116	81
15	AW-M96*4403	105.0	134.3	109	120	87
16	AW-D97-6750	102.5	133.7	107	115	88
17	AW-M94*1626-7	106.0	136.0	110	123	88
18	NC96-13155	106.0	136.7	109	120	88
19	NC96-13965	106.0	137.0	106	119	89
20	B950590	103.5	135.0	107	117	87
21	B950904	105.5	136.0	107	118	86
22	B950943	101.5	136.3	107	115	85
23	TX96D1320	105.0	136.0	108	117	81
24	TX97D4556	100.0	133.5	105	116	80
25	TX97D6719	108.0	135.0	109	122	92
26	TX97D6737	98.5	133.3	103	115	74
27	TX91-27	106.0	134.3	107	117	93
28	TX91-57	104.5	133.3	106	118	86
29	AR656-5-1	106.0	135.7	108	121	88
30	AR647-1-6	106.5	135.7	107	119	87
31	GA90552AE33	97.0	132.0	103	110	73
32	GA93059LE6	91.0	130.0	100	110	63
33	GA91426E39	97.0	130.3	102	110	73
LOCATION MEANS		101.1	134.1	105.4	115.7	79.6

HEADING DATE (Julian)

		Prosper TX	Warsaw VA	ENTRY MEANS ALL LOCATIONS	
					rank
1	Coker 9835	80	121	104.2	12
2	Coker 9663	85	119	103.9	10
3	Mason	81	114	102.0	4
4	AGS 2000	80	115	101.7	3
5	SC921285	89	116	106.9	16
6	SC921299	89	116	107.6	18
7	S9412192	75	113	101.0	2
8	LA9115C25-3-6-2	81	121	103.9	9
9	LA90518PB43-3-1-4	82	116	104.3	13
10	LA8983B14-3-1-4	82	119	103.9	11
11	LA90185G3-1-3-4-2	82	117	103.2	7
12	VA96W-270	84	116	105.0	14
13	VA97W-206	90	121	110.4	25
14	VA98W-593	89	119	107.6	19
15	AW-M96*4403	94	120	111.1	28
16	AW-D97-6750	90	118	110.6	26
17	AW-M94*1626-7	95	124	113.5	32
18	NC96-13155	91	122	111.4	29
19	NC96-13965	87	122	112.3	31
20	B950590	89	121	109.2	21
21	B950904	88	121	110.1	24
22	B950943	86	122	107.5	17
23	TX96D1320	88	122	108.3	20
24	TX97D4556	86	118	105.2	15
25	TX97D6719	98	124	114.4	33
26	TX97D6737	83	120	103.3	8
27	TX91-27	91	121	111.9	30
28	TX91-57	90	118	109.4	22
29	AR656-5-1	91	123	111.1	27
30	AR647-1-6	91	122	109.8	23
31	GA90552AE33	82	116	103.1	6
32	GA93059LE6	75	110	98.2	1
33	GA91426E39	81	114	102.8	5
LOCATION MEANS		86.2	118.8		

HEIGHT (inches)

		Belle Mina AL	Bay AR	DeWitt AR	Keiser AR	Marianna FL
1	Coker 9835	34	36	34.5	31	33.7
2	Coker 9663	44	42	41.5	34	39.7
3	Mason	38	38	38.0	36	36.7
4	AGS 2000	42	39	39.5	36	37.0
5	SC921285	37	36	37.0	30	36.3
6	SC921299	37	36	36.0	31	33.0
7	S9412192	42	38	38.5	34	35.7
8	LA9115C25-3-6-2	37	38	37.5	31	32.7
9	LA90518PB43-3-1-4	41	39	38.0	33	35.7
10	LA8983B14-3-1-4	33	40	36.5	29	33.0
11	LA90185G3-1-3-4-2	43	41	40.0	35	36.7
12	VA96W-270	38	39	37.5	35	35.0
13	VA97W-206	38	38	38.0	34	33.7
14	VA98W-593	37	37	37.5	34	34.7
15	AW-M96*4403	40	39	42.0	38	34.7
16	AW-D97-6750	39	37	40.5	37	34.3
17	AW-M94*1626-7	45	45	46.5	41	38.7
18	NC96-13155	39	38	39.0	32	35.3
19	NC96-13965	38	37	37.5	32	31.7
20	B950590	38	37	38.5	32	34.7
21	B950904	37	38	36.5	29	32.7
22	B950943	39	39	38.5	32	36.3
23	TX96D1320	33	33	32.5	28	32.3
24	TX97D4556	35	35	33.0	29	32.3
25	TX97D6719	39	39	42.0	34	35.7
26	TX97D6737	36	37	38.0	31	34.7
27	TX91-27	43	41	42.5	38	36.0
28	TX91-57	43	42	42.0	35	36.0
29	AR656-5-1	43	40	38.0	31	37.7
30	AR647-1-6	43	41	41.5	.	38.3
31	GA90552AE33	42	40	41.5	36	37.7
32	GA93059LE6	38	39	35.5	32	34.7
33	GA91426E39	40	38	36.5	33	35.3
LOCATION MEANS		39.1	38.5	38.5	33.2	35.2

HEIGHT (inches)

		Quincy FL	Griffin GA	Plains GA	Aberdeen ID	Manhattan KS
1	Coker 9835	32.7	30	34	36.5	33.5
2	Coker 9663	43.3	39	40	41.8	44.1
3	Mason	37.0	36	41	41.3	38.6
4	AGS 2000	38.3	37	38	37.8	37.4
5	SC921285	35.7	36	36	36.3	36.6
6	SC921299	32.3	35	33	36.3	37.4
7	S9412192	36.7	38	38	39.8	37.4
8	LA9115C25-3-6-2	35.0	35	34	35.0	37.8
9	LA90518PB43-3-1-4	38.0	39	40	35.8	37.4
10	LA8983B14-3-1-4	33.7	32	33	35.5	32.7
11	LA90185G3-1-3-4-2	38.3	40	39	40.0	37.4
12	VA96W-270	38.7	36	38	40.8	36.6
13	VA97W-206	32.7	35	33	36.5	36.2
14	VA98W-593	35.7	35	32	35.3	35.5
15	AW-M96*4403	36.0	38	38	37.3	38.2
16	AW-D97-6750	32.7	37	34	38.5	37.4
17	AW-M94*1626-7	38.0	42	40	40.3	41.4
18	NC96-13155	33.7	38	35	36.0	39.4
19	NC96-13965	35.0	36	36	35.3	37.4
20	B950590	35.7	36	35	35.5	38.2
21	B950904	33.0	37	32	36.0	37.0
22	B950943	37.3	36	35	37.3	38.6
23	TX96D1320	32.7	32	32	33.3	28.8
24	TX97D4556	33.3	32	32	34.3	29.6
25	TX97D6719	33.3	36	36	40.8	40.2
26	TX97D6737	37.0	33	35	37.3	37.4
27	TX91-27	33.0	40	39	39.3	36.6
28	TX91-57	38.0	41	44	37.5	40.2
29	AR656-5-1	38.7	38	41	38.5	37.8
30	AR647-1-6	40.7	38	42	40.0	43.3
31	GA90552AE33	39.0	38	38	37.3	41.4
32	GA93059LE6	36.0	37	38	36.3	35.5
33	GA91426E39	35.3	35	39	37.5	37.4
LOCATION MEANS		36.0	36.5	36.7	37.5	37.4

HEIGHT (inches)

		Lexington KY	Logan Co. KY	Queenstown MD	Portageville MO	Cleveland MS
1	Coker 9835	35	31	33.2	29.7	34.0
2	Coker 9663	43	40	41.5	34.7	44.5
3	Mason	38	38	37.7	32.7	39.0
4	AGS 2000	40	36	37.8	32.7	37.0
5	SC921285	35	34	35.5	30.0	39.0
6	SC921299	37	34	35.5	31.0	38.5
7	S9412192	39	33	37.2	35.0	38.5
8	LA9115C25-3-6-2	35	33	35.5	31.3	39.0
9	LA90518PB43-3-1-4	36	34	38.5	31.7	38.5
10	LA8983B14-3-1-4	33	31	33.5	31.3	35.5
11	LA90185G3-1-3-4-2	39	36	38.7	34.7	39.5
12	VA96W-270	40	36	37.3	35.0	38.5
13	VA97W-206	36	37	33.7	33.7	38.5
14	VA98W-593	36	37	34.5	32.3	38.0
15	AW-M96*4403	39	36	35.8	34.0	42.0
16	AW-D97-6750	39	36	37.5	33.0	42.0
17	AW-M94*1626-7	42	44	40.5	39.7	44.0
18	NC96-13155	37	37	35.5	35.0	40.0
19	NC96-13965	35	35	34.2	31.0	39.5
20	B950590	37	36	37.3	30.7	41.5
21	B950904	34	35	35.5	33.3	38.5
22	B950943	38	38	35.7	33.0	40.5
23	TX96D1320	30	33	29.3	27.7	34.5
24	TX97D4556	33	34	31.8	28.7	36.5
25	TX97D6719	37	39	36.2	32.0	41.5
26	TX97D6737	37	37	37.8	31.7	40.5
27	TX91-27	38	40	38.2	36.0	44.0
28	TX91-57	37	41	40.7	35.7	45.5
29	AR656-5-1	39	39	34.8	35.3	43.0
30	AR647-1-6	40	41	39.3	36.3	44.0
31	GA90552AE33	38	38	38.5	34.0	42.0
32	GA93059LE6	36	33	34.7	33.0	37.5
33	GA91426E39	40	33	36.8	32.7	39.0
LOCATION MEANS		37.2	36.2	36.4	33.0	39.8

HEIGHT (inches)

		Raymond MS	Wooster OH	Clemson SC	Florence SC	Overton TX
1	Coker 9835	28	36.6	36	32	30
2	Coker 9663	39	42.6	44	37	35
3	Mason	36	38.6	42	36	37
4	AGS 2000	36	39.0	40	35	37
5	SC921285	31	36.2	37	31	36
6	SC921299	35	36.5	36	32	34
7	S9412192	38	37.4	40	33	35
8	LA9115C25-3-6-2	36	37.0	38	32	32
9	LA90518PB43-3-1-4	38	37.5	40	32	33
10	LA8983B14-3-1-4	34	34.0	34	33	30
11	LA90185G3-1-3-4-2	41	39.0	40	36	37
12	VA96W-270	42	38.9	39	35	36
13	VA97W-206	39	37.9	37	34	34
14	VA98W-593	40	37.3	36	32	35
15	AW-M96*4403	41	39.0	40	35	38
16	AW-D97-6750	42	39.4	39	36	39
17	AW-M94*1626-7	45	44.4	45	39	39
18	NC96-13155	42	38.9	38	36	35
19	NC96-13965	39	38.6	37	35	36
20	B950590	38	36.2	40	34	36
21	B950904	37	34.9	36	34	32
22	B950943	39	39.0	40	36	33
23	TX96D1320	42	33.9	36	30	30
24	TX97D4556	38	33.3	35	29	32
25	TX97D6719	39	37.9	39	34	36
26	TX97D6737	36	36.5	38	32	29
27	TX91-27	39	39.1	41	34	36
28	TX91-57	38	39.1	42	38	38
29	AR656-5-1	37	41.9	40	36	34
30	AR647-1-6	36	40.9	42	37	36
31	GA90552AE33	38	40.3	41	34	36
32	GA93059LE6	33	34.4	39	32	31
33	GA91426E39	31	37.2	39	33	33
LOCATION MEANS		37.7	38.0	39.0	34.1	34.5

HEIGHT (inches)

		Prosper TX	Warsaw VA	ENTRY MEANS ALL LOCATIONS	rank
1	Coker 9835	34.5	35	33.2	31
2	Coker 9663	41.0	40	40.5	2
3	Mason	41.5	38	38.0	10
4	AGS 2000	41.0	38	37.8	11
5	SC921285	39.0	34	35.2	26
6	SC921299	39.5	35	35.0	28
7	S9412192	39.0	37	37.3	15
8	LA9115C25-3-6-2	38.5	34	35.2	27
9	LA90518PB43-3-1-4	38.0	37	36.9	18
10	LA8983B14-3-1-4	33.0	31	33.3	30
11	LA90185G3-1-3-4-2	36.0	40	38.5	7
12	VA96W-270	37.0	37	37.6	13
13	VA97W-206	38.0	34	35.8	22
14	VA98W-593	36.5	34	35.6	24
15	AW-M96*4403	39.5	37	38.1	9
16	AW-D97-6750	41.5	37	37.7	12
17	AW-M94*1626-7	42.0	40	41.9	1
18	NC96-13155	38.5	37	37.1	17
19	NC96-13965	39.0	36	36.0	21
20	B950590	39.0	35	36.4	19
21	B950904	38.5	33	35.0	29
22	B950943	40.0	37	37.2	16
23	TX96D1320	33.0	28	32.0	33
24	TX97D4556	35.5	30	32.8	32
25	TX97D6719	37.5	36	37.3	14
26	TX97D6737	39.0	35	35.7	23
27	TX91-27	40.5	37	38.7	5
28	TX91-57	43.5	39	39.8	4
29	AR656-5-1	40.5	37	38.2	8
30	AR647-1-6	42.0	40	40.1	3
31	GA90552AE33	41.0	39	38.7	6
32	GA93059LE6	37.5	34	35.3	25
33	GA91426E39	38.0	37	36.2	20
LOCATION MEANS		38.7	36.0		

LODGING

		Belle Mina AL	DeWitt AR	Keiser AR	Marianna FL	Quincy FL
		0-9	0-9	0-9	0-9	0-9
1	Coker 9835	0		0	1.7	3.0
2	Coker 9663	0	4	2	5.7	5.3
3	Mason	0		0	3.0	3.7
4	AGS 2000	0		0	6.0	3.3
5	SC921285	0		0	1.3	1.3
6	SC921299	0		0	1.0	0.3
7	S9412192	0		0	0.7	3.0
8	LA9115C25-3-6-2	0		0	1.3	2.7
9	LA90518PB43-3-1-4	0		0	3.0	1.7
10	LA8983B14-3-1-4	0		0	3.7	5.0
11	LA90185G3-1-3-4-2	0		0	1.3	5.3
12	VA96W-270	0	2	0	0.7	1.0
13	VA97W-206	0		0	0.3	0.7
14	VA98W-593	0		0	1.3	1.7
15	AW-M96*4403	0		0	0.0	0.0
16	AW-D97-6750	0		0	0.0	0.0
17	AW-M94*1626-7	0		0	1.0	0.7
18	NC96-13155	0		0	0.7	0.7
19	NC96-13965	0		9	0.3	0.0
20	B950590	0		0	4.0	5.3
21	B950904	0		0	0.3	0.0
22	B950943	0		0	1.3	2.7
23	TX96D1320	0		0	0.3	1.0
24	TX97D4556	0		0	0.0	2.3
25	TX97D6719	0		0	0.3	0.0
26	TX97D6737	0		7	3.7	5.3
27	TX91-27	0		8	1.0	0.7
28	TX91-57	0		0	2.7	2.0
29	AR656-5-1	0		0	0.3	2.0
30	AR647-1-6	0		.	2.7	2.0
31	GA90552AE33	0		0	1.7	2.7
32	GA93059LE6	0		3	3.0	5.3
33	GA91426E39	0		0	4.3	4.7
LOCATION MEANS		0.0		0.9	1.8	2.3

LODGING

		Griffin GA	Plains GA	Aberdeen ID	Lafayette IN	Lexington KY
		0-9	0-9	0-9	0-9	%
1	Coker 9835		2	3.0	3.0	0
2	Coker 9663		6	1.5	3.0	10
3	Mason		4	0.8	1.5	20
4	AGS 2000		3	0.0	3.0	25
5	SC921285		1	0.8	1.5	70
6	SC921299		2	1.3	2.5	70
7	S9412192	2	0	0.3	2.0	0
8	LA9115C25-3-6-2		3	1.8	5.0	35
9	LA90518PB43-3-1-4		0	0.0	1.0	30
10	LA8983B14-3-1-4		1	2.8	2.0	30
11	LA90185G3-1-3-4-2		8	3.8	4.0	5
12	VA96W-270		0	0.0	2.5	0
13	VA97W-206		0	0.0	3.0	0
14	VA98W-593		0	0.5	2.0	20
15	AW-M96*4403		0	0.0	3.5	0
16	AW-D97-6750		0	0.0	4.5	0
17	AW-M94*1626-7		0	1.8	2.5	0
18	NC96-13155		0	1.3	2.0	25
19	NC96-13965		0	2.5	4.5	20
20	B950590		0	2.0	5.0	30
21	B950904		0	2.3	3.5	15
22	B950943		0	1.5	4.0	0
23	TX96D1320		0	0.0	1.0	0
24	TX97D4556		0	0.0	2.5	50
25	TX97D6719	1	0	5.3	2.0	10
26	TX97D6737		2	0.8	1.5	5
27	TX91-27	3	0	2.8	4.5	65
28	TX91-57		0	1.0	4.5	55
29	AR656-5-1		0	0.0	1.5	5
30	AR647-1-6		0	0.8	3.0	10
31	GA90552AE33		0	0.3	1.0	40
32	GA93059LE6		2	7.3	4.5	55
33	GA91426E39		1	1.0	4.0	55
LOCATION MEANS			1.1	1.4	2.9	22.9

LODGING

		BatonRouge LA	Portageville MO	Cleveland MS	Raymond MS	Wooster OH
		0-9	0-9	0-9	0-9	1-5
1	Coker 9835	1.1	1.7	3.0	1	1.0
2	Coker 9663	5.6	3.0	6.0	1	1.3
3	Mason	1.1	3.0	1.5	1	1.3
4	AGS 2000	4.5	1.3	2.0	1	1.0
5	SC921285	3.9	2.0	3.5	1	1.7
6	SC921299	3.9	2.0	3.5	1	1.0
7	S9412192	2.3	0.0	2.0	1	1.0
8	LA9115C25-3-6-2	5.6	2.3	6.0	1	1.3
9	LA90518PB43-3-1-4	2.8	0.0	3.5	4	1.0
10	LA8983B14-3-1-4	3.4	1.3	4.0	3	1.0
11	LA90185G3-1-3-4-2	5.1	1.3	3.0	3	1.3
12	VA96W-270	1.1	0.0	3.0	2	1.0
13	VA97W-206	3.4	0.0	2.0	4	1.0
14	VA98W-593	3.9	0.0	2.5	4	1.0
15	AW-M96*4403	2.8	0.3	3.5	3	1.0
16	AW-D97-6750	0.6	1.3	1.5	1	1.0
17	AW-M94*1626-7	3.4	0.3	3.0	2	2.3
18	NC96-13155	3.9	0.7	1.5	1	1.7
19	NC96-13965	3.9	2.0	3.0	3	1.7
20	B950590	6.8	1.7	7.0	3	1.0
21	B950904	2.8	0.0	3.0	2	1.0
22	B950943	2.8	0.7	1.0	2	1.0
23	TX96D1320	4.5	0.0	2.5	3	1.0
24	TX97D4556	1.7	0.0	1.5	3	1.0
25	TX97D6719	2.8	1.0	3.0	1	1.3
26	TX97D6737	6.2	2.3	7.0	1	2.0
27	TX91-27	2.8	1.3	6.0	1	3.0
28	TX91-57	5.6	1.3	4.0	1	1.7
29	AR656-5-1	2.8	0.3	8.0	1	1.0
30	AR647-1-6	2.3	1.3	4.0	1	1.0
31	GA90552AE33	3.4	0.3	1.0	1	1.0
32	GA93059LE6	5.1	2.7	5.0	1	1.3
33	GA91426E39	5.1	1.0	5.0	1	2.3
LOCATION MEANS		3.5	1.1	3.5	1.8	1.3

LODGING

		Knoxville TN	Overton TX	Prosper TX	Warsaw VA
		0-9	%	0-9	0.2-10
1	Coker 9835	1	0	0.7	0.7
2	Coker 9663	1	3	0.3	1.6
3	Mason	0	3	0.0	1.2
4	AGS 2000	0	0	0.0	0.6
5	SC921285	1	0	1.0	0.9
6	SC921299	1	0	1.0	1.4
7	S9412192	0	3	0.3	0.4
8	LA9115C25-3-6-2	1	0	2.7	1.3
9	LA90518PB43-3-1-4	0	0	0.0	0.8
10	LA8983B14-3-1-4	1	3	0.0	1.2
11	LA90185G3-1-3-4-2	2	10	2.3	1.1
12	VA96W-270	0	0	0.0	0.9
13	VA97W-206	0	0	0.0	0.4
14	VA98W-593	0	3	0.0	1.0
15	AW-M96*4403	0	0	1.0	0.8
16	AW-D97-6750	0	0	0.0	1.5
17	AW-M94*1626-7	0	0	1.3	1.7
18	NC96-13155	0	0	0.0	2.1
19	NC96-13965	0	0	0.3	3.3
20	B950590	1	0	1.3	1.2
21	B950904	0	0	0.0	1.1
22	B950943	0	0	0.3	0.9
23	TX96D1320	0	0	0.0	0.2
24	TX97D4556	0	0	0.0	0.5
25	TX97D6719	0	0	0.0	1.5
26	TX97D6737	0	3	1.3	2.1
27	TX91-27	1	5	1.7	3.2
28	TX91-57	0	0	3.0	1.9
29	AR656-5-1	0	0	0.0	0.2
30	AR647-1-6	0	0	2.3	1.2
31	GA90552AE33	1	0	0.3	0.7
32	GA93059LE6	1	10	5.0	2.4
33	GA91426E39	0	5	2.7	1.4
LOCATION MEANS		0.4	1.5	0.9	1.3

WINTER KILL

		Belle Mina AL	Lexington KY	Logan Co. KY	Portageville MO	Wooster OH
		0-9	%	%	%	0-9
1	Coker 9835	0	0	0	3	0
2	Coker 9663	0	0	0	5	0
3	Mason	0	0	0	5	0
4	AGS 2000	0	0	0	5	0
5	SC921285	0	0	0	14	0
6	SC921299	0	0	0	7	0
7	S9412192	0	0	0	6	0
8	LA9115C25-3-6-2	0	0	0	3	0
9	LA90518PB43-3-1-4	0	0	0	6	0
10	LA8983B14-3-1-4	0	0	0	3	0
11	LA90185G3-1-3-4-2	0	0	0	4	0
12	VA96W-270	0	0	0	5	0
13	VA97W-206	0	0	0	3	0
14	VA98W-593	0	0	0	6	0
15	AW-M96*4403	0	0	0	6	0
16	AW-D97-6750	0	0	0	8	0
17	AW-M94*1626-7	0	0	0	4	0
18	NC96-13155	0	0	0	6	0
19	NC96-13965	0	0	0	9	0
20	B950590	0	0	0	6	0
21	B950904	0	0	0	6	0
22	B950943	0	0	0	7	0
23	TX96D1320	0	0	0	11	0
24	TX97D4556	0	0	0	8	0
25	TX97D6719	0	0	0	10	0
26	TX97D6737	0	0	0	6	0
27	TX91-27	0	0	0	6	0
28	TX91-57	0	0	0	5	0
29	AR656-5-1	0	0	0	6	0
30	AR647-1-6	0	0	0	8	0
31	GA90552AE33	0	0	0	6	0
32	GA93059LE6	0	0	0	5	0
33	GA91426E39	0	0	0	8	0
LOCATION MEANS		0	0	0	6.2	0.0

WINTER KILL

		Overton TX
		0-9
1	Coker 9835	0
2	Coker 9663	0
3	Mason	0
4	AGS 2000	0
5	SC921285	0
6	SC921299	0
7	S9412192	0
8	LA9115C25-3-6-2	0
9	LA90518PB43-3-1-4	0
10	LA8983B14-3-1-4	0
11	LA90185G3-1-3-4-2	0
12	VA96W-270	0
13	VA97W-206	0
14	VA98W-593	0
15	AW-M96*4403	0
16	AW-D97-6750	0
17	AW-M94*1626-7	0
18	NC96-13155	0
19	NC96-13965	0
20	B950590	0
21	B950904	0
22	B950943	0
23	TX96D1320	0
24	TX97D4556	0
25	TX97D6719	0
26	TX97D6737	0
27	TX91-27	0
28	TX91-57	0
29	AR656-5-1	0
30	AR647-1-6	0
31	GA90552AE33	0
32	GA93059LE6	0
33	GA91426E39	0
LOCATION MEANS		0

LEAF RUST

		BelleMina AL	Fayetteville AR	Marianna FL	Quincy FL	Griffin GA
			%	0-9	0-9	0-9
1	Coker 9835	0	2.0	6	9	5
2	Coker 9663	0	11.0	1	1	1
3	Mason	0	15.0	0	0	0
4	AGS 2000	0	3.5	1	0	0
5	SC921285	0	7.0	3	0	0
6	SC921299	0	3.5	4	0	1
7	S9412192	0	7.5	5	0	0
8	LA9115C25-3-6-2	0	8.5	2	9	4
9	LA90518PB43-3-1-4	0	1.0	0	0	1
10	LA8983B14-3-1-4	0	3.5	0	4	1
11	LA90185G3-1-3-4-2	0	7.0	1	6	1
12	VA96W-270	0	7.0	3	2	0
13	VA97W-206	3	11.0	2	7	0
14	VA98W-593	0	1.0	0	0	0
15	AW-M96*4403	0	22.5	1	1	0
16	AW-D97-6750	0	2.0	0	0	0
17	AW-M94*1626-7	0	7.0	0	0	0
18	NC96-13155	0	4.5	0	0	0
19	NC96-13965	0	2.0	0	1	0
20	B950590	0	15.0	0	1	0
21	B950904	0	2.0		3	0
22	B950943	0	1.0		1	0
23	TX96D1320	0	0.0		0	0
24	TX97D4556	0	2.0		0	0
25	TX97D6719	0	2.0		0	0
26	TX97D6737	0	11.0		0	0
27	TX91-27	0	1.0		0	0
28	TX91-57	0	2.0		1	1
29	AR656-5-1	0	30.0		5	0
30	AR647-1-6	0	2.0		0	0
31	GA90552AE33	0	4.5		2	1
32	GA93059LE6	0	1.0		0	0
33	GA91426E39	0	16.0		0	0
LOCATION MEANS		0.1	6.5		1.6	0.5
GROWTH STAGE/DATE			22-May	11-Apr	17-Apr	

LEAF RUST

		Plains GA	Lafayette IN	Lexington KY	BatonRouge LA	St.Paul MN
		0-9		% flag	%	sev / IT
1	Coker 9835	9	1.00	1	3	TMS-S
2	Coker 9663	4	1.00	NA	0	0
3	Mason	5	1.00	1	3	TMR-MS
4	AGS 2000	2	2.00	1	0	TR
5	SC921285	1	2.00	NA	28	TR
6	SC921299	1	1.25	1	22	TR-MR
7	S9412192	3	5.25	1	5	TR
8	LA9115C25-3-6-2	6	1.00	1	2	TR
9	LA90518PB43-3-1-4	0	1.00	NA	0	TR
10	LA8983B14-3-1-4	4	1.00	1	0	TR-MR
11	LA90185G3-1-3-4-2	9	1.00	NA	0	TR-MR
12	VA96W-270	4	4.75	5	10	5MS
13	VA97W-206	5	7.25	1	40	20S
14	VA98W-593	1	1.00	NA	2	20S
15	AW-M96*4403	3	5.00	NA	18	---
16	AW-D97-6750	4	1.00	1	0	---
17	AW-M94*1626-7	0	1.25	NA	0	5MS-S
18	NC96-13155	0	1.25	1	0	5MS
19	NC96-13965	0	1.00	1	0	TMS
20	B950590	0	1.50	1	3	TS
21	B950904	3	1.00	1	0	TMR-MS
22	B950943	1	1.00	1	0	5R-MS
23	TX96D1320	0	1.00	NA	0	5R-MR
24	TX97D4556	0	1.00	NA	0	5MR-MS
25	TX97D6719	1	1.00	NA	0	20MR-MS
26	TX97D6737	4	1.00	NA	40	TR
27	TX91-27	1	1.00	NA	5	40MS-S
28	TX91-57	2	1.00	NA	0	TMR-MS
29	AR656-5-1	7	7.00	NA	8	40MS-S
30	AR647-1-6	0	1.00	NA	0	---
31	GA90552AE33	2	3.00	NA	2	40R-MS
32	GA93059LE6	1	1.00	NA	0	40S
33	GA91426E39	1	1.25	NA	0	---
LOCATION MEANS		2.5	1.9		5.8	
GROWTH STAGE/DATE						

LEAF RUST

		Overton TX	Beeville TX	Prosper TX	Blacksburg VA	
		0-9	IT	%/IT	MCRQ00	TLGG00
1	Coker 9835	0	R	0.0	0;	S
2	Coker 9663	0	R	0.0	0;	0;
3	Mason	0	R	0.0	0;	3;
4	AGS 2000	0	R	0.0	;1	0;
5	SC921285	0	S	2.0 MS	;23	0;
6	SC921299	0	S	0.3 MS	3;	0;/S
7	S9412192	0	S	46.7 S	;12	0;
8	LA9115C25-3-6-2	0	R	0.0	0;	;23
9	LA90518PB43-3-1-4	0	MR	0.0	;1	;12
10	LA8983B14-3-1-4	0	R	3.3 MS	0;	S
11	LA90185G3-1-3-4-2	0	R	0.0	0;	;23
12	VA96W-270	2	MS	2.0 MS	;23	0;
13	VA97W-206	2	S	23.3 S	23;	S
14	VA98W-593	0	MR	0.0	0;	;1
15	AW-M96*4403	4	S	43.3 S	3;	;12
16	AW-D97-6750	0	MR	0.0	S	;12
17	AW-M94*1626-7	2	S	4.0 MS	;1-	0;
18	NC96-13155	1	MS	10.0 MS	0;	;12
19	NC96-13965	0	R	0.0	0;	;12
20	B950590	3	S	15.0 MS	0;3	3;
21	B950904	0	MS	0.0	0;3	S
22	B950943	2	R	0.0	0;	0;
23	TX96D1320	0	MR	0.0	0;	;12
24	TX97D4556	0	R	0.3 MS	0;	;12
25	TX97D6719	0	R	0.0	0;	;12
26	TX97D6737	0	R	0.0	0;	0;
27	TX91-27	0	MR	0.0	0;	3;
28	TX91-57	1	R	0.0	S	;3
29	AR656-5-1	3	S	33.3 S	0;	0;
30	AR647-1-6	1	S	0.0	S	0;
31	GA90552AE33	2	S	10.3 MS	;1-	0;
32	GA93059LE6	0	MR	0.0	0;	0;
33	GA91426E39	0	R	0.0	0;	3;
LOCATION MEANS		0.7				
GROWTH STAGE/DATE					seedling	seedling

LEAF RUST

		Warsaw VA
		0-9
1	Coker 9835	5
2	Coker 9663	0
3	Mason	0
4	AGS 2000	0
5	SC921285	1
6	SC921299	2
7	S9412192	1
8	LA9115C25-3-6-2	3
9	LA90518PB43-3-1-4	0
10	LA8983B14-3-1-4	0
11	LA90185G3-1-3-4-2	0
12	VA96W-270	7
13	VA97W-206	4
14	VA98W-593	0
15	AW-M96*4403	0
16	AW-D97-6750	0
17	AW-M94*1626-7	0
18	NC96-13155	0
19	NC96-13965	0
20	B950590	0
21	B950904	0
22	B950943	0
23	TX96D1320	0
24	TX97D4556	0
25	TX97D6719	1
26	TX97D6737	0
27	TX91-27	1
28	TX91-57	2
29	AR656-5-1	4
30	AR647-1-6	1
31	GA90552AE33	1
32	GA93059LE6	0
33	GA91426E39	0

LOCATION MEANS 1.0
GROWTH STAGE/DATE

LEAF RUST

Seedling reaction of entries of the 1999-2000 Uniform Southern Soft Red Wheat Perfomance Nursery to selected isolates of Puccinia tritici f. sp. tritici (D.L. Long, USDA-ARS, Cereal Disease Laboratory, 1551

Reactions produced by NA race*

No.	Cultivar or Line	MBGQ	CLBL	MCGL	LCBQ	LBBQ	THDL	TNRL	TLGG	PLML	FCMQ	Postulated Genes***
1	Coker 9835	0;	;	;	;	;	;	3	3	;	;	2a,9,11
2	Coker 9663	0;	;	;	;	;	;	3	;	;1	;	9,10,11
3	Mason	;	;	;	;	;	;	3	3	3	;	9,+
4	AGS 2000	0;	;	3	;	;	;	;	;	;	;	10,26,+
5	SC921285	;1c	;-3	;-2	;2	;2	;1c	;1c	;1c	3;	3;	+
6	SC921299	;2c	;1c	;2	;1c	;1c	;1c	;2c	;1c	3;	3;	+
7	SC9412192	;	;	3	;	;-3;	3	;1c	;	;	;	1,10,26
8	LA90115C25-3-6-2	;	;	;	;	;	;	3	;	;	;	9,10,11
9	LA90518PB43-3-1-	3;	;1c	;1c	;	;1c	;	;	;1c	;	;1c	+
10	LA8983B14-3-1-4	;	;	;	;	;	;	;	3	;	;	2a,9,18+
11	LA90185G-1-3-4-2	;	;	;	;	;	;	3	3	3	;	9,+
12	VA96W-270	;1c	;	3	;1c	;1c	;1c	;1c	;	;1c	32;	11,26,+
13	VA97W-206	3	;	;2	;1	3;	;2	3	3	3;	;	1,11,18
14	VA98W-593	;	;1c	;	;	;	;	3;	;	;	;	11,24,+
15	AW-M96*4403	3	;	3;	;	;	;3	3	;1c	;2c	;2c	10,11,+
16	AW-D97-6750	3	0;	;1c	3	3	;1c	;	;-3	;2c	3	10,18,+
17	AW-M94*1626-7	;	;1c	;	;	;	;	;2c	;	;	;	+
18	NC96-13155	;	;	;1	;	;	;1c	3	;1c2	;	;	11,24+
19	NC96-13965	;	;	;	;	;	;	;2	;1c	;	;	+
20	B950590	;	;	;	;	;	3	3	;1	;	;	2a,10,+
21	B950904	;	;	;	;	;	;1c	;	3	;	;1c	2a,11,18
22	B950943	;	;	;	;	;	;	;	;	;	;	+
23	TX96D1320	;	;	;	;	;	;	3	;	3	;	9,10+
24	TX97D4556	;	;	;	;	;	;	3	;	3	;	9,10+
25	TX97D6719	;	;	;	;	;	;	3	3	;	;	2a,11,+
26	TX97D6737	;	;-3	;	;	;	;1c	3	;	3	;	9,10,11
27	TX91-27	;	;	;	;	;	;	3	;	;	;	2a,10,11
28	TX91-57	3	;	;1	;	;1c	;1c	;1c	;1c	;	;1c	11,18
29	AR656-5-1	;	;	;	;	0;	3-;1c	3	;	;	;	2a,10,11
30	AR647-1-6	3	;1c	;1c	3	3	;1c	;	;	3-;	3	18,+
31	GA90552AE33	;	;	;	;	;	;1c	;1c	;	;	;1c	+
32	GA93059LE6	;	0;	;	;	;	;	;1c	;	;	;	+
33	GA91426E39	;	3	;	;	;	0;	3	;3	3	;	9,10,+

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

**Virulence

MBGQ = Lr1,3,10,11,18
CLLB, Lr3,3ka,9
MCGL = Lr1,3,10,11,26
LCBQ = Lr1,10,18,2(
LBBQ = Lr1,10,18

THDL = Lr1,2a,2c,3,10,16,17,26
TNRL = Lr1,2a,2c,3,3ka,9,10,11,24,30
TLGG = Lr1,2a,2c,3,9,11,18
PLML = Lr1,2c,3,3ka,9,10,30
FCMQ = Lr2c,3,3ka, 6

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

STEM RUST

		St.Paul MN
		sev / IT
1	Coker 9835	TMR
2	Coker 9663	TMR
3	Mason	0
4	AGS 2000	TMS-S
5	SC921285	TMS-S
6	SC921299	TS
7	S9412192	0,10MS-S
8	LA9115C25-3-6-2	0
9	LA90518PB43-3-1-4	TS
10	LA8983B14-3-1-4	5MS
11	LA90185G3-1-3-4-2	10MS-S
12	VA96W-270	0
13	VA97W-206	20MS-S
14	VA98W-593	0
15	AW-M96*4403	---
16	AW-D97-6750	---
17	AW-M94*1626-7	5MS
18	NC96-13155	0
19	NC96-13965	TS
20	B950590	TMS-S
21	B950904	TS
22	B950943	TS
23	TX96D1320	0
24	TX97D4556	5S
25	TX97D6719	60S
26	TX97D6737	0
27	TX91-27	80S
28	TX91-57	20MS-S
29	AR656-5-1	60S
30	AR647-1-6	80S
31	GA90552AE33	10MS
32	GA93059LE6	10MR
33	GA91426E39	80S
GROWTH STAGE/DATE		29-Jun

STRIPE RUST

		BelleMina AL	Kibler AR			
		0-9	% leaves	% leaves	% heads	% seed set
1	Coker 9835	0.0	40	70	78	5
2	Coker 9663	0.0	30	50	40	40
3	Mason	0.0	11	11	30	50
4	AGS 2000	0.7	30	30	70	50
5	SC921285	0.0	40	40	60	26
6	SC921299	0.0	40	40	40	29
7	S9412192	1.0	50	50	78	60
8	LA9115C25-3-6-2	1.3	30	50	60	60
9	LA90518PB43-3-1-4	0.0	1	1	30	70
10	LA8983B14-3-1-4	0.0	33	50	50	5
11	LA90185G3-1-3-4-2	0.0	50	60	70	30
12	VA96W-270	0.0	1	8	30	60
13	VA97W-206	0.0	50	50	30	11
14	VA98W-593	0.0	30	30	30	50
15	AW-M96*4403	0.0	7	30	15	70
16	AW-D97-6750	0.0	23	33	30	50
17	AW-M94*1626-7	0.0	0	8	7	82
18	NC96-13155	2.0	43	60	40	5
19	NC96-13965	1.0	60	60	50	5
20	B950590	0.0	60	70	78	1
21	B950904	1.0	58	78	70	9
22	B950943	0.0	19	50	50	15
23	TX96D1320	0.0	33	50	89	5
24	TX97D4556	0.0	30	50	78	11
25	TX97D6719	0.0	23	50	23	19
26	TX97D6737	0.0	1	7	23	50
27	TX91-27	0.0	23	50	33	40
28	TX91-57	1.3	30	50	60	29
29	AR656-5-1	0.0	5	5	11	60
30	AR647-1-6	0.0	19	40	19	30
31	GA90552AE33	0.0	40	60	85	11
32	GA93059LE6	1.7	70	70	89	7
33	GA91426E39	0.0	4	8	30	30
LOCATION MEANS		0.3	29.8	41.5	47.8	32.6
GROWTH STAGE/DATE			6-Apr	17-Apr	12-May	25-May

STRIPE RUST

		Bay AR	Prosper TX	
			% / IT	
1	Coker 9835	6	73.3	S
2	Coker 9663	4	20.0	MS
3	Mason	3	26.7	R
4	AGS 2000	5	26.7	MR
5	SC921285	4	43.3	MR
6	SC921299	4	46.7	MR
7	S9412192	4	26.7	MS
8	LA9115C25-3-6-2	5	33.3	MR
9	LA90518PB43-3-1-4	1	33.3	MR
10	LA8983B14-3-1-4	5	53.3	MS
11	LA90185G3-1-3-4-2	5	43.3	MR
12	VA96W-270	2	36.7	R
13	VA97W-206	6	10.3	MR
14	VA98W-593	3	13.3	R
15	AW-M96*4403	2	20.0	MR
16	AW-D97-6750	3	36.7	R
17	AW-M94*1626-7	1	1.0	R
18	NC96-13155	5	46.7	MS
19	NC96-13965	8	46.7	S
20	B950590	6	13.3	MS
21	B950904	6	63.3	MS
22	B950943	4	16.7	R
23	TX96D1320	4	46.7	MS
24	TX97D4556	3	43.3	MR
25	TX97D6719	3	1.0	R
26	TX97D6737	1	4.0	R
27	TX91-27	3	17.0	MR
28	TX91-57	4	13.3	MR
29	AR656-5-1	1	4.0	MR
30	AR647-1-6	4	50.0	R
31	GA90552AE33	4	46.7	MR
32	GA93059LE6	7	70.0	S
33	GA91426E39	2	43.3	MR

LOCATION MEANS 3.9
GROWTH STAGE/DATE

SEPTORIA

		BelleMina AL	Lexington KY	BatonRouge LA	Wooster OH	Overton TX
			0-9 leaf	0-9	1-5 leaf	0-9
1	Coker 9835	4.0	7	2.8	1.0	2
2	Coker 9663	1.0	7	4.5	1.0	1
3	Mason	1.0	8	2.8	1.0	1
4	AGS 2000	3.0	8	3.4	1.7	3
5	SC921285	3.0	8	1.7	1.0	1
6	SC921299	3.0	8	1.7	1.0	1
7	S9412192	3.0	8	3.4	1.0	4
8	LA9115C25-3-6-2	2.5	8	2.3	1.0	3
9	LA90518PB43-3-1-4	2.0	8	2.8	1.0	1
10	LA8983B14-3-1-4	2.0	7	2.3	1.0	3
11	LA90185G3-1-3-4-2	2.0	7	2.8	1.0	2
12	VA96W-270	3.0	7	1.7	1.0	1
13	VA97W-206	1.5	7	2.3	1.0	1
14	VA98W-593	2.0	6	2.3	1.0	1
15	AW-M96*4403	1.0	8	1.1	1.0	1
16	AW-D97-6750	4.0	7	1.7	1.0	1
17	AW-M94*1626-7	2.0	6	1.7	1.0	1
18	NC96-13155	3.0	7	1.7	1.0	1
19	NC96-13965	2.0	7	1.7	1.0	1
20	B950590	4.0	6	1.7	1.0	1
21	B950904	2.0	6	1.1	1.3	1
22	B950943	3.0	6	1.7	1.0	1
23	TX96D1320	2.5	7	2.3	1.0	3
24	TX97D4556	2.5	8	3.4	1.0	2
25	TX97D6719	2.0	6	1.7	1.0	1
26	TX97D6737	2.5	7	2.8	1.0	3
27	TX91-27	2.0	7	2.3	1.0	1
28	TX91-57	2.0	8	2.8	1.0	1
29	AR656-5-1	3.0	7	2.8	1.7	1
30	AR647-1-6	3.0	6	1.1	1.0	3
31	GA90552AE33	2.0	8	2.8	1.3	1
32	GA93059LE6	4.0	8	2.3	1.0	4
33	GA91426E39	3.0	7	2.8	1.0	2
LOCATION MEANS		2.5	7.2	2.3	1.1	1.7

LEAF BLIGHT

		Lafayette IN
1	Coker 9835	3.25
2	Coker 9663	2.25
3	Mason	3.25
4	AGS 2000	4.50
5	SC921285	3.75
6	SC921299	5.75
7	S9412192	5.25
8	LA9115C25-3-6-2	2.75
9	LA90518PB43-3-1-4	4.25
10	LA8983B14-3-1-4	2.75
11	LA90185G3-1-3-4-2	3.25
12	VA96W-270	3.25
13	VA97W-206	4.50
14	VA98W-593	1.75
15	AW-M96*4403	6.00
16	AW-D97-6750	4.00
17	AW-M94*1626-7	2.50
18	NC96-13155	2.75
19	NC96-13965	3.25
20	B950590	3.50
21	B950904	3.25
22	B950943	3.00
23	TX96D1320	6.00
24	TX97D4556	6.25
25	TX97D6719	3.25
26	TX97D6737	3.50
27	TX91-27	2.75
28	TX91-57	3.25
29	AR656-5-1	5.00
30	AR647-1-6	3.75
31	GA90552AE33	5.00
32	GA93059LE6	5.25
33	GA91426E39	5.75
LOCATION MEANS		3.89

POWDERY MILDEW

		Belle Mina AL	Fayetteville AR	Hope AR	Marianna FL	Quincy FL
			%	%	0-9	0-9
1	Coker 9835	0.0	0.0	4	1.5	3.0
2	Coker 9663	0.0	4.5	19	4.5	3.5
3	Mason	0.0	11.0	20	7.5	4.0
4	AGS 2000	0.0	0.0	0	3.0	0.0
5	SC921285	0.0	0.0	19	5.0	2.0
6	SC921299	0.0	0.0	30	3.0	3.5
7	S9412192	0.0	3.5	23	4.5	2.5
8	LA9115C25-3-6-2	0.0	0.0	8	5.0	2.5
9	LA90518PB43-3-1-4	0.0	7.5	0	1.5	0.5
10	LA8983B14-3-1-4	5.0	3.5	0	4.0	3.5
11	LA90185G3-1-3-4-2	0.0	2.0	0	2.0	2.0
12	VA96W-270	0.0	1.0	0	0.0	0.5
13	VA97W-206	3.0	3.5	15	1.0	0.5
14	VA98W-593	0.0	1.0	0	0.0	0.5
15	AW-M96*4403	0.0	3.5	7	0.0	0.0
16	AW-D97-6750	0.0	1.0	15	0.5	1.5
17	AW-M94*1626-7	0.0	3.5	0	0.0	0.5
18	NC96-13155	0.0	3.5	0	0.0	0.0
19	NC96-13965	0.0	0.0	0	0.0	0.0
20	B950590	0.0	1.0	0	4.5	0.0
21	B950904	0.0	3.5	15	0.0	0.0
22	B950943	0.0	3.5	7	1.0	0.5
23	TX96D1320	5.0	16.0	50	3.0	4.5
24	TX97D4556	2.0	16.0	30	3.0	3.0
25	TX97D6719	0.0	2.0	30	2.5	2.5
26	TX97D6737	0.0	3.5	30	3.5	4.0
27	TX91-27	2.0	0.0	0	6.5	1.5
28	TX91-57	0.0	0.0	0	0.0	0.0
29	AR656-5-1	0.0	7.5	7	0.5	0.5
30	AR647-1-6	2.5	40.0	50	8.0	7.0
31	GA90552AE33	0.0	1.0	7	1.5	1.5
32	GA93059LE6	0.0	0.0	0	0.5	2.5
33	GA91426E39	0.0	0.0	0	1.0	1.5
LOCATION MEANS		0.6	4.3	11.7	2.4	1.8
GROWTH STAGE/DATE			5-May	17-Apr	27-Mar	23-Mar

POWDERY MILDEW

		Griffin GA	Plains GA	Lafayette IN	Lexington KY	BatonRouge LA
		0-9	0-9		0-9	0-9
1	Coker 9835	2	1	2.0	7	1.9
2	Coker 9663	3	6	2.0	7	2.3
3	Mason	6	8	3.5	7	4.2
4	AGS 2000	1	0	1.0	6	1.1
5	SC921285	0	3	1.5	7	0.8
6	SC921299	0	0	1.0	8	1.1
7	S9412192	2	4	1.5	7	1.1
8	LA9115C25-3-6-2	2	4	1.0	7	1.1
9	LA90518PB43-3-1-4	2	3	1.0	7	1.5
10	LA8983B14-3-1-4	2	2	1.0	7	0.8
11	LA90185G3-1-3-4-2	0	0	1.0	7	1.1
12	VA96W-270	0	0	1.0	6	1.1
13	VA97W-206	0	1	1.5	7	1.1
14	VA98W-593	0	0	1.0	5	0.3
15	AW-M96*4403	0	1	2.0	7	1.1
16	AW-D97-6750	0	1	1.0	7	0.8
17	AW-M94*1626-7	0	0	1.0	5	0.3
18	NC96-13155	0	0	1.0	6	0.3
19	NC96-13965	0	0	1.0	7	0.8
20	B950590	0	0	1.0	7	0.3
21	B950904	0	3	1.0	7	1.5
22	B950943	0	4	1.5	7	0.3
23	TX96D1320	6	5	2.5	7	6.4
24	TX97D4556	3	3	1.0	7	3.7
25	TX97D6719	0	2	1.0	6	1.1
26	TX97D6737	5	5	1.0	7	4.2
27	TX91-27	2	2	2.0	7	1.9
28	TX91-57	0	0	1.0	6	0.0
29	AR656-5-1	4	0	1.0	7	1.1
30	AR647-1-6	9	5	5.0	8	5.3
31	GA90552AE33	0	0	1.0	7	1.1
32	GA93059LE6	0	0	1.0	7	1.1
33	GA91426E39	0	2	1.0	5	0.8
LOCATION MEANS		1.5	2.0	1.4	6.7	1.6
GROWTH STAGE/DATE						9.0

POWDERY MILDEW

		Portageville MO	Kinston NC	Wooster OH	Clemson SC	Florence SC
		%		1-5	%	%
1	Coker 9835	0	2.5	1.0	0	0
2	Coker 9663	1	3.5	1.7	0	20
3	Mason	12	5.0	1.0	0	0
4	AGS 2000	0	2.0	1.0	0	0
5	SC921285	0	2.0	1.3	0	20
6	SC921299	0	3.0	1.0	0	0
7	S9412192	1	6.0	1.0	0	60
8	LA9115C25-3-6-2	0	2.5	1.0	0	10
9	LA90518PB43-3-1-4	1	3.5	1.3	0	50
10	LA8983B14-3-1-4	0	2.0	1.0	0	40
11	LA90185G3-1-3-4-2	0	3.5	1.0	0	10
12	VA96W-270	0	2.5	1.0	0	0
13	VA97W-206	0	2.5	1.0	0	5
14	VA98W-593	0	0.0	1.0	0	0
15	AW-M96*4403	0	2.5	1.0	0	0
16	AW-D97-6750	1	1.0	1.0	0	10
17	AW-M94*1626-7	0	1.0	1.0	0	0
18	NC96-13155	0	0.5	1.0	0	0
19	NC96-13965	0	0.5	1.0	0	0
20	B950590	0	3.0	1.0	0	30
21	B950904	0	2.5	1.0	0	10
22	B950943	0	3.0	1.0	0	20
23	TX96D1320	13	5.0	1.3	0	60
24	TX97D4556	5	3.5	2.0	30	20
25	TX97D6719	0	4.0	1.3	0	0
26	TX97D6737	1	4.0	2.0	0	50
27	TX91-27	1	4.0	1.3	0	20
28	TX91-57	0	2.5	1.0	0	0
29	AR656-5-1	1	2.0	1.3	0	0
30	AR647-1-6	19	4.0	2.3	30	50
31	GA90552AE33	1	4.5	1.0	0	5
32	GA93059LE6	0	4.5	1.0	0	0
33	GA91426E39	0	2.0	1.0	0	5
	LOCATION MEANS	1.7	2.9	1.2	1.8	15.0
	GROWTH STAGE/DATE					

POWDERY MILDEW

		Overton TX	Blacksburg VA		Warsaw VA
		0-9	0-9	NC100	0-9
1	Coker 9835	0	3	3MS	5
2	Coker 9663	1	5	4S	6
3	Mason	1	7	4S	4
4	AGS 2000	0	0	1R	3
5	SC921285	0	3	3MS	7
6	SC921299	0	2	4S	7
7	S9412192	0	3	34S/0R	8
8	LA9115C25-3-6-2	0	2	4S	5
9	LA90518PB43-3-1-4	0	5	4S	4
10	LA8983B14-3-1-4	0	2	4S	5
11	LA90185G3-1-3-4-2	0	1	23MSI	5
12	VA96W-270	0	0	12MR	3
13	VA97W-206	0	1	4S	3
14	VA98W-593	0	0	1R	0
15	AW-M96*4403	0	4	4S	3
16	AW-D97-6750	0	1	3MS	1
17	AW-M94*1626-7	0	1	4S	1
18	NC96-13155	0	0	4S	3
19	NC96-13965	0	0	4S	3
20	B950590	0	5	3MS	8
21	B950904	0	4	4S	3
22	B950943	0	5	4S	4
23	TX96D1320	2	6	4S	7
24	TX97D4556	1	5	4S	6
25	TX97D6719	0	5	4S	6
26	TX97D6737	0	7	4S	5
27	TX91-27	1	4	4S	4
28	TX91-57	0	1	3MS	3
29	AR656-5-1	0	2	12MR/4S	6
30	AR647-1-6	3	8	4S	9
31	GA90552AE33	0	4	3MS	3
32	GA93059LE6	0	2	0R	6
33	GA91426E39	0	1	34S	2
	LOCATION MEANS	0.3	3.0		4.5
	GROWTH STAGE/DATE			seedling	

POWDERY MILDEW

	Aso	E3-25	WKin91	W72-27	127	144	#9	43a1	156b1	Postulated Resistance Genes	Effective Genes	Isolates
Axminster Pm1	R	S	S	S	S	R	R	R	R		Pm1	156b1, #9
Orestis Pm2	R	S	S	S	R	R	S	S	S		Pm2	144, Aso, 127
Asosan Pm3a	S	S	S	R	RM	R	M	S	S		Pm3a	W72-27, 144
Chul Pm3b	M	M	M	M	M	RM	R	RM	S		Pm3b	#9, W72-27
Sonora Pm3c	S	S	S	S	S	S	S	S	S		Pm4a	W72-27, WKin91
Yuma Pm4a	S	S	R	R	S	S	S	S	S		Pm4b, Pm1	43a1, 156b1
Ronos Pm4b	M	M	M	M	S	M	S	R	R		Pm8	156b1, W72-27
CI 14125 Pm5	S	S	S	S	S	S	S	S	S		Pm12	Aso, E3-25
C747 Pm6	S	S	S	S	S	S	S	S	S		Pm17, Pm12	E3-25
Transec Pm7	S	S	S	M	S	S	S	S	S			
Kavkaz Pm8	RM	S	M	R	S	S	S	S	R			
Pm12	R	R	R	R	R	R	R	R	R			
Pm16	R	S	S	R	R	R	R	R	R			
Amigo Pm17	R	M	M	M	S	S	R	M	MS			
Mich Amber	S	S	S	S	S	S	S	S	S			
Chancellor	S	S	RS	S	S	S	S	S	S			
C 9835	S	MS	S	R	S	MS	MS	S	MS	N/A		
C9663	S	MS	S	R	R	R	S	S	M	Pm3a		
MASON	S	S	S	R	R	R	M	S	S	Pm3a		
AGS 2000	R	R	R	R	R	R	RM	R	R	Pm1*, Pm2, Pm3a, Pm3b*, Pm4a, Pm4b, Pm8, Pm12, Pm17		
SC921285	RM	RM	M	R	R	R	R	R	R	Pm1, Pm2*,Pm3a, Pm3b, Pm4b, Pm8, Pm12*, Pm17*		
SC921299	M	R	R	R	R	R	R	RM	RM	Pm1*, Pm3a, Pm3b, Pm4a, Pm4b*, Pm8*, Pm17		
S9412192	MS	RS	S	R	R	R	M	M	M	Pm3a		
LA90115C25362	M	M	S	R	M	RM	RM	S	M	Pm3a*, Pm3b*		
LA90518PB43314	RM	RS	RS	R	R	R	R	RS	S	Pm2*, Pm3a, Pm3b		
LA8983B14314	S	M	M	RM	M	RM	RM	S	M	Pm3b*		
LA90185G31342	M	S	S	S	S	S	M	S	S	N/A		
VA96W-270	R	M	M	RM	S	S	M	M	M	N/A		
VA97W-206	S	S	S	R	R	R	M	S	S	Pm3a		
VA98W-593	RM	RM	RM	R	M	RM	R	MS	RM	Pm3a*, Pm3b, Pm4a*,Pm8*, Pm12*, Pm17*		
AW-M96*4403	S	S	S	M	S	S	S	S	S	N/A		
AW-D97-6750	M	S	S	R	R	R	M	S	S	Pm3a		
AW-M94*1626-7	M	S	S	MS	S	M	M	S	S	N/A		
NC96-13155	R	S	S	S	S	R	R	R	R	Pm1, Pm4b		
NC96-13965	R	S	S	RM	S	R	R	R	.	(Pm1), Pm3a*, Pm3b*, (Pm4b)		
B950590	M	S	S	R	S	M	R	S	S	Pm3b		
B950904	M	S	S	R	M	RM	R	S	S	Pm3a*, Pm3b		
B950943	M	S	S	R	R	R	R	S	S	Pm3a, Pm3b		
TX96D1320	M	S	S	RS	S	S	R	S	S	N/A		
TX97D4556	M	S	S	M	S	S	RM	S	S	N/A		
TX97D6719	M	S	S	R	RM	R	R	S	S	Pm3a, Pm3b		
TX97D6737	M	S	S	R	S	S	R	S	S	Pm3b		
TX91-27	S	S	S	R	.	R	RM	S	S	Pm3a, Pm3b*		
TX91-57	S	S	S	.	.	R	R	S	S	(Pm3a), (Pm3b)		
AR656-5-1	R	RM	S	.	.	R	R	S	S	(Pm2), (Pm3a), (Pm3b)		
AR647-1-6	M	S	S	.	.	S	S	S	S	N/A		
GA90552AE33	M	RS	S	.	.	R	S	S	S	(Pm3a)		
GA93059LE6	.	R	S	.	.	S	S	.	R	(Pm4b), (Pm8), (Pm12), (Pm17)		
GA91426E39	.	MS	S	.	.	R	RM	.	S	(Pm2*), (Pm3a*)		

Note: Genes postulated by applying gene for gene analysis; a more complete determination will involve pedigree analysis. ' * ' Denotes mixed reaction type of one of the ratings. () denotes missing data point.

TAKE-ALL

		Knoxville TN
		%
1	Coker 9835	27
2	Coker 9663	8
3	Mason	30
4	AGS 2000	35
5	SC921285	28
6	SC921299	18
7	S9412192	23
8	LA9115C25-3-6-2	23
9	LA90518PB43-3-1-4	13
10	LA8983B14-3-1-4	23
11	LA90185G3-1-3-4-2	23
12	VA96W-270	42
13	VA97W-206	20
14	VA98W-593	28
15	AW-M96*4403	35
16	AW-D97-6750	22
17	AW-M94*1626-7	23
18	NC96-13155	18
19	NC96-13965	30
20	B950590	23
21	B950904	13
22	B950943	30
23	TX96D1320	48
24	TX97D4556	28
25	TX97D6719	15
26	TX97D6737	28
27	TX91-27	13
28	TX91-57	10
29	AR656-5-1	23
30	AR647-1-6	15
31	GA90552AE33	27
32	GA93059LE6	32
33	GA91426E39	38
LOCATION MEANS		24.6

BACTERIAL STREAK

		BatonRouge LA
		0-9
1	Coker 9835	5.1
2	Coker 9663	3.9
3	Mason	3.9
4	AGS 2000	5.1
5	SC921285	3.4
6	SC921299	2.3
7	S9412192	2.8
8	LA9115C25-3-6-2	4.5
9	LA90518PB43-3-1-4	2.8
10	LA8983B14-3-1-4	3.4
11	LA90185G3-1-3-4-2	5.1
12	VA96W-270	2.8
13	VA97W-206	3.4
14	VA98W-593	3.4
15	AW-M96*4403	1.1
16	AW-D97-6750	2.8
17	AW-M94*1626-7	2.8
18	NC96-13155	2.3
19	NC96-13965	3.4
20	B950590	3.9
21	B950904	2.8
22	B950943	3.4
23	TX96D1320	4.5
24	TX97D4556	1.7
25	TX97D6719	3.4
26	TX97D6737	4.5
27	TX91-27	2.8
28	TX91-57	1.7
29	AR656-5-1	3.4
30	AR647-1-6	2.3
31	GA90552AE33	4.5
32	GA93059LE6	5.6
33	GA91426E39	3.9
LOCATION MEANS		3.4

BYDV

		BelleMina AL	Prosper TX	Blacksburg VA	Warsaw VA
		%	0-9	0-9	0-9
1	Coker 9835	90	1.0	4	0
2	Coker 9663	40	1.0	3	0
3	Mason	90	2.0	7	0
4	AGS 2000	90	3.0	6	0
5	SC921285	70	2.0	5	1
6	SC921299	70	3.0	4	0
7	S9412192	70	2.0	6	1
8	LA9115C25-3-6-2	40	1.0	4	0
9	LA90518PB43-3-1-4	80	3.0	4	0
10	LA8983B14-3-1-4	80	2.0	5	0
11	LA90185G3-1-3-4-2	90	1.7	3	0
12	VA96W-270	90	2.3	4	0
13	VA97W-206	80	1.7	4	0
14	VA98W-593	95	2.7	4	0
15	AW-M96*4403	80	1.0	2	0
16	AW-D97-6750	70	3.0	4	0
17	AW-M94*1626-7	70	2.3	4	0
18	NC96-13155	90	1.7	4	0
19	NC96-13965	70	2.3	5	0
20	B950590	90	1.7	5	1
21	B950904	90	2.7	3	0
22	B950943	70	2.3	6	0
23	TX96D1320	95	3.0	6	2
24	TX97D4556	95	3.7	6	2
25	TX97D6719	70	2.3	5	1
26	TX97D6737	80	0.7	4	0
27	TX91-27	70	2.0	3	0
28	TX91-57	90	3.0	4	0
29	AR656-5-1	90	2.0	5	1
30	AR647-1-6	90	1.7	5	1
31	GA90552AE33	90	1.3	4	0
32	GA93059LE6	90	3.0	5	0
33	GA91426E39	70	2.0	4	2
LOCATION MEANS		79.8	2.1	4.5	0.4

VIRUSES

Keiser
AR

		Spindle streak 0-9	Soilborne mosaic 0-9	SS+SB 0-9	No virus plant vigor 0-9	Spindle streak plant vigor 0-9
1	Coker 9835	1.8	3.5	3.8	9.0	8.0
2	Coker 9663	5.5	5.2	7.0	9.0	7.3
3	Mason	0.0	2.8	3.3	9.0	8.3
4	AGS 2000	3.5	5.5	5.8	9.0	8.0
5	SC921285	2.7	4.7	3.5	9.0	8.0
6	SC921299	6.2	4.0	4.0	9.0	5.7
7	S9412192	3.2	7.3	7.0	6.0	7.7
8	LA9115C25-3-6-2	0.5	1.7	1.2	8.7	8.7
9	LA90518PB43-3-1-4	7.3	6.3	8.2	9.0	5.7
10	LA8983B14-3-1-4	0.0	1.5	0.3	9.0	8.3
11	LA90185G3-1-3-4-2	7.3	7.3	7.0	9.0	5.0
12	VA96W-270	0.0	2.5	0.8	7.7	8.7
13	VA97W-206	0.0	0.5	0.0	9.0	9.0
14	VA98W-593	0.7	3.2	4.7	9.0	8.7
15	AW-M96*4403	0.0	1.8	4.3	9.0	9.0
16	AW-D97-6750	4.2	3.2	3.3	8.3	8.0
17	AW-M94*1626-7	0.0	0.2	0.0	9.0	9.0
18	NC96-13155	0.5	0.5	1.0	9.0	8.7
19	NC96-13965	0.5	1.7	3.0	8.7	8.3
20	B950590	1.8	1.5	4.3	8.7	9.0
21	B950904	0.0	1.8	2.2	8.7	8.7
22	B950943	0.0	1.0	1.5	8.0	9.0
23	TX96D1320	1.8	4.3	6.2	9.0	7.0
24	TX97D4556	3.7	5.8	6.7	8.7	8.3
25	TX97D6719	0.2	0.5	0.8	9.0	9.0
26	TX97D6737	0.2	1.0	0.5	9.0	9.0
27	TX91-27	6.0	6.5	7.2	8.5	6.7
28	TX91-57	4.5	4.5	5.7	9.0	8.3
29	AR656-5-1	3.0	1.5	3.2	9.0	7.0
30	AR647-1-6	0.5	2.7	1.2	9.0	8.7
31	GA90552AE33	7.7	5.5	8.3	9.0	5.3
32	GA93059LE6	1.0	4.8	4.7	9.0	8.0
33	GA91426E39	1.2	1.0	2.7	9.0	8.7
LOCATION MEANS		2.3	3.2	3.7	8.8	8.0

VIRUSES

Keiser
AR

		Soilborne mosaic plant vigor 0-9	SS+SB plant vigor 0-9	No virus plant ht cm	Spindle streak plant ht cm	Soilborne mosaic plant ht cm
1	Coker 9835	6.3	6.3	94	90	67
2	Coker 9663	7.0	6.7	103	93	78
3	Mason	6.3	6.7	104	99	78
4	AGS 2000	7.0	7.3	102	93	81
5	SC921285	6.3	5.7	101	92	71
6	SC921299	6.0	6.3	100	81	70
7	S9412192	6.0	5.7	94	71	73
8	LA9115C25-3-6-2	7.0	7.3	93	92	77
9	LA90518PB43-3-1-4	7.5	4.3	102	76	78
10	LA8983B14-3-1-4	5.0	7.0	95	91	71
11	LA90185G3-1-3-4-2	7.3	5.3	104	76	78
12	VA96W-270	6.0	5.5	100	102	68
13	VA97W-206	7.3	8.0	98	99	78
14	VA98W-593	6.7	6.3	94	92	73
15	AW-M96*4403	7.3	7.3	103	100	79
16	AW-D97-6750	6.0	6.0	105	99	78
17	AW-M94*1626-7	7.3	8.7	112	116	77
18	NC96-13155	7.0	8.0	106	98	84
19	NC96-13965	7.3	7.0	96	94	82
20	B950590	7.0	6.3	103	100	77
21	B950904	6.7	7.3	98	99	76
22	B950943	6.7	8.0	98	106	78
23	TX96D1320	7.3	3.0	87	82	66
24	TX97D4556	6.3	4.7	86	83	68
25	TX97D6719	8.0	7.3	110	101	89
26	TX97D6737	7.0	7.7	93	101	78
27	TX91-27	4.7	5.0	99	91	67
28	TX91-57	7.7	6.7	106	107	86
29	AR656-5-1	6.0	7.0	108	95	78
30	AR647-1-6	7.0	7.3	122	119	86
31	GA90552AE33	7.0	4.0	106	87	80
32	GA93059LE6	4.3	7.3	101	98	64
33	GA91426E39	7.3	7.0	108	98	80
LOCATION MEANS		6.7	6.5	100.9	94.6	76.2

VIRUSES

		Keiser AR	Lexington KY	Wooster OH
		SS+SB plant ht cm	virus complex 0-3	virus complex 1-5
1	Coker 9835	84	2	2.3
2	Coker 9663	96	2	1.3
3	Mason	87	3	1.3
4	AGS 2000	90	2	2.0
5	SC921285	79	2	1.6
6	SC921299	80	3	2.0
7	S9412192	77	3	2.0
8	LA9115C25-3-6-2	83	2	1.0
9	LA90518PB43-3-1-4	65	3	2.0
10	LA8983B14-3-1-4	83	3	1.7
11	LA90185G3-1-3-4-2	81	2	1.3
12	VA96W-270	98	1	1.7
13	VA97W-206	99	2	1.3
14	VA98W-593	81	2	1.3
15	AW-M96*4403	96	1	1.7
16	AW-D97-6750	93	2	2.3
17	AW-M94*1626-7	115	1	1.0
18	NC96-13155	96	1	1.7
19	NC96-13965	91	1	2.3
20	B950590	86	1	2.0
21	B950904	92	1	1.7
22	B950943	97	2	2.3
23	TX96D1320	62	3	3.0
24	TX97D4556	70	3	3.0
25	TX97D6719	94	1	1.8
26	TX97D6737	95	2	2.0
27	TX91-27	81	2	2.0
28	TX91-57	92	3	2.0
29	AR656-5-1	92	1	1.0
30	AR647-1-6	101	3	2.0
31	GA90552AE33	82	2	1.7
32	GA93059LE6	90	1	3.3
33	GA91426E39	89	2	2.0
LOCATION MEANS		87.8	2.0	1.9

HESSIAN FLY

W.Lafayette
IN

		Biotype GP	Biotype B	Biotype C	Biotype D	Biotype E
1	Coker 9835	14 - 0	0 - 17	0 - 17	0 - 17	14 - 0
2	Coker 9663	3 - 11	0 - 12	3 - 8	0 - 10	0 - 12
3	Mason	0 - 18	0 - 14	0 - 17	0 - 10	0 - 15
4	AGS 2000	0 - 17	0 - 13	0 - 12	0 - 14	0 - 11
5	SC921285	0 - 15	0 - 15	0 - 14	0 - 14	0 - 16
6	SC921299	7 - 10	0 - 16	9 - 7	0 - 14	0 - 17
7	S9412192	0 - 15	0 - 11	0 - 18	0 - 14	0 - 16
8	LA9115C25-3-6-2	12 - 5	0 - 17	13 - 1	0 - 13	12 - 1
9	LA90518PB43-3-1-4	16 - 4	0 - 16	0 - 17	0 - 13	15 - 1
10	LA8983B14-3-1-4	5 - 10	0 - 17	0 - 16	0 - 12	0 - 16
11	LA90185G3-1-3-4-2	0 - 15	0 - 14	0 - 12	0 - 13	0 - 14
12	VA96W-270	11 - 1	11 - 2	0 - 11	0 - 8	15 - 0
13	VA97W-206	0 - 15	0 - 14	0 - 13	0 - 15	0 - 17
14	VA98W-593	0 - 16	0 - 15	0 - 13	0 - 14	0 - 15
15	AW-M96*4403	15 - 0	16 - 0	0 - 18	0 - 12	16 - 0
16	AW-D97-6750	12 - 4	0 - 14	11 - 5	0 - 16	0 - 17
17	AW-M94*1626-7	0 - 18	0 - 14	0 - 11	0 - 10	0 - 14
18	NC96-13155	5 - 6	0 - 11	5 - 10	5 - 6	0 - 16
19	NC96-13965	9 - 4	0 - 13	0 - 12	4 - 9	0 - 14
20	B950590	3 - 14	0 - 15	0 - 15	0 - 11	0 - 16
21	B950904	0 - 15	0 - 14	0 - 19	0 - 15	0 - 17
22	B950943	0 - 17	0 - 16	0 - 12	0 - 12	0 - 16
23	TX96D1320	10 - 5	10 - 5	0 - 16	0 - 21	3 - 11
24	TX97D4556	0 - 16	0 - 14	0 - 17	0 - 14	0 - 14
25	TX97D6719	0 - 18	0 - 17	0 - 13	0 - 15	0 - 15
26	TX97D6737	0 - 16	0 - 17	0 - 14	0 - 14	0 - 16
27	TX91-27	0 - 6	0 - 10	0 - 7	0 - 8	0 - 12
28	TX91-57	7 - 4	7 - 3	1 - 13	7 - 3	7 - 9
29	AR656-5-1	0 - 16	0 - 17	0 - 17	0 - 19	0 - 15
30	AR647-1-6	15 - 3	0 - 14	10 - 5	0 - 16	14 - 0
31	GA90552AE33	11 - 6	0 - 15	0 - 12	0 - 15	7 - 5
32	GA93059LE6	3 - 13	0 - 14	2 - 7	0 - 15	0 - 15
33	GA91426E39	12 - 5	0 - 18	4 - 6	10 - 5	10 - 2

LOCATION MEANS

HESSIAN FLY

		W.Lafayette IN Biotype L	Plains GA	Kinston NC
1	Coker 9835	0 - 13	R	4.5
2	Coker 9663	0 - 11	S	3.5
3	Mason	0 - 12	S	3.0
4	AGS 2000	0 - 14	R	3.5
5	SC921285	0 - 13	S	2.0
6	SC921299	0 - 15	S	2.5
7	S9412192	0 - 14	S	3.0
8	LA9115C25-3-6-2	0 - 17	S	3.0
9	LA90518PB43-3-1-4	0 - 12	R	3.5
10	LA8983B14-3-1-4	0 - 17	S	4.0
11	LA90185G3-1-3-4-2	0 - 15	R	5.5
12	VA96W-270	0 - 15	R	3.0
13	VA97W-206	0 - 15	S	3.5
14	VA98W-593	0 - 15	R	1.5
15	AW-M96*4403	0 - 13	R	2.5
16	AW-D97-6750	0 - 14	S	2.0
17	AW-M94*1626-7	0 - 17	R	3.0
18	NC96-13155	8 - 4	R	2.5
19	NC96-13965	8 - 3	R	2.0
20	B950590	0 - 12	S	2.0
21	B950904	0 - 14	VS	2.0
22	B950943	0 - 16	S	3.0
23	TX96D1320	0 - 13	R	1.0
24	TX97D4556	0 - 14	S	3.0
25	TX97D6719	0 - 15	S	4.0
26	TX97D6737	0 - 13	S	3.5
27	TX91-27	0 - 7	R	2.5
28	TX91-57	3 - 8	R	2.5
29	AR656-5-1	0 - 13	S	4.0
30	AR647-1-6	0 - 16	S	3.5
31	GA90552AE33	0 - 13	S	2.5
32	GA93059LE6	0 - 14	MR	2.0
33	GA91426E39	0 - 11	R	1.5
LOCATION MEANS				2.9

ACID SOIL TOLERANCE

		Enid OK		
		1-5	1-5	1-5
1	Coker 9835	2	2	2
2	Coker 9663	2	2	1
3	Mason	1	2	1
4	AGS 2000	1	1	2
5	SC921285	3	2	3
6	SC921299	3	2	3
7	S9412192	1	1	1
8	LA9115C25-3-6-2	4	5	5
9	LA90518PB43-3-1-4	1	1	1
10	LA8983B14-3-1-4	2	3	3
11	LA90185G3-1-3-4-2	1	2	2
12	VA96W-270	3	3	3
13	VA97W-206	1	2	2
14	VA98W-593	2	2	1
15	AW-M96*4403	4	4	4
16	AW-D97-6750	3	3	3
17	AW-M94*1626-7	2	2	2
18	NC96-13155	3	3	3
19	NC96-13965	3	3	3
20	B950590	2	3	2
21	B950904	1	2	3
22	B950943	1	1	1
23	TX96D1320	3	3	3
24	TX97D4556	3	3	3
25	TX97D6719	2	2	2
26	TX97D6737	2	2	3
27	TX91-27	2	2	2
28	TX91-57	1	2	1
29	AR656-5-1	3	3	3
30	AR647-1-6	2	2	2
31	GA90552AE33	1	1	2
32	GA93059LE6	2	1	2
33	GA91426E39	1	2	2
LOCATION MEANS		2.1	2.2	2.3
GROWTH STAGE/DATE		26-Dec	8-Apr	14-May

SPRING PHENOTYPE

		BatonRouge LA	Beeville TX	Warsaw VA	
		phenotype 0-9	vernalization 1-3	juvenile habit 0-5	spring plant height inches
1	Coker 9835	5.1	3	2	13.2
2	Coker 9663	5.6	3	1	13.5
3	Mason	3.4	3	2	12.7
4	AGS 2000	5.1	3	2	13.7
5	SC921285	6.2	1	1	12.7
6	SC921299	6.8	1	1	12.5
7	S9412192	5.1	3	3	15.3
8	LA9115C25-3-6-2	5.1	3	2	13.0
9	LA90518PB43-3-1-4	3.4	2	2	13.8
10	LA8983B14-3-1-4	3.4	3	2	12.5
11	LA90185G3-1-3-4-2	5.1	3	2	14.8
12	VA96W-270	3.4	2	0	10.5
13	VA97W-206	6.8	1	1	11.0
14	VA98W-593	5.1	2	0	10.0
15	AW-M96*4403	5.6	1	1	12.5
16	AW-D97-6750	7.9	2	1	11.8
17	AW-M94*1626-7	6.2	1	1	9.5
18	NC96-13155	5.1	2	1	11.8
19	NC96-13965	7.3	1	1	12.8
20	B950590	5.6	1	1	10.5
21	B950904	5.6	1	1	12.5
22	B950943	6.2	2	1	12.0
23	TX96D1320	3.9	1	0	9.7
24	TX97D4556	2.8	1	1	11.7
25	TX97D6719	6.8	1	1	9.0
26	TX97D6737	6.8	3	1	11.3
27	TX91-27	7.3	1	0	12.8
28	TX91-57	5.6	1	2	13.0
29	AR656-5-1	4.5	1	2	12.7
30	AR647-1-6	2.8	1	1	11.0
31	GA90552AE33	3.4	3	2	13.7
32	GA93059LE6	5.6	3	2	14.8
33	GA91426E39	6.8	3	1	11.2
LOCATION MEANS		5.3	1.9	1.3	12.2
GROWTH STAGE/DATE					24-Mar

1RS STATUS

		Lincoln NE
1	Coker 9835	NON.1RS
2	Coker 9663	NON.1RS
3	Mason	NON.1RS
4	AGS 2000	1BL.1RS
5	SC921285	NON.1RS
6	SC921299	NON.1RS
7	S9412192	1BL.1RS
8	LA9115C25-3-6-2	NON.1RS
9	LA90518PB43-3-1-4	NON.1RS
10	LA8983B14-3-1-4	NON.1RS
11	LA90185G3-1-3-4-2	NON.1RS
12	VA96W-270	1BL.1RS
13	VA97W-206	NON.1RS
14	VA98W-593	1AL.1RS
15	AW-M96*4403	NON.1RS
16	AW-D97-6750	NON.1RS
17	AW-M94*1626-7	NON.1RS
18	NC96-13155	NON.1RS
19	NC96-13965	NON.1RS
20	B950590	NON.1RS
21	B950904	NON.1RS
22	B950943	NON.1RS
23	TX96D1320	NON.1RS
24	TX97D4556	NON.1RS
25	TX97D6719	NON.1RS
26	TX97D6737	NON.1RS
27	TX91-27	NON.1RS
28	TX91-57	NON.1RS
29	AR656-5-1	NON.1RS
30	AR647-1-6	NON.1RS
31	GA90552AE33	1BL.1RS
32	GA93059LE6	1BL.1RS
33	GA91426E39	NON.1RS

2000 Crop
Advanced Nursery Evaluation

MBQ – USN Regional Composites

Entries #2501 - #2533 (Region 1)
Entries #2551 - #2583 (Region 2)

Thirty-three entries were submitted from two regions. These entries were the regional composites of the 2000 Uniform Southern Soft Red Winter Wheat Nursery.

In addition to the usual data tables, a table is included that presents the lactic acid absorption for both regions. The varietal response was similar for both regions, but region 1 averaged 10.3% higher.

Each region was analyzed separately, using the MASON check as the standard. In the SWQL database of 242 Quad-milled cultivars, MASON ranked 149th for adjusted yield, based on data from 11 millings:

	Database	Region 1	Region 2
Test Weight	59.0	60.3	61.4
Softness Equivalent	62.2	59.2	54.2
Flour Yield	70.5	70.8	71.1
Flour Protein	8.78	8.91	9.18
A.W.R.C.	56.4	57.3	57.2
Cookie Diameter	17.24	17.91	17.91
Top Grain	3	5	6

In most cases the standards were similar to the historical data. Exceptions were the low S.E. for region 2 and the larger cookie diameters for both locations.

The standard was lenient for Milling Quality, with a low adjusted flour yield. However, the average flour yield for both regions was 70.4%. Entries with Milling Quality Scores below "B" should be considered to be poor in quality.

Note the high test weight for entry #14 (VA98W-593), averaging 64.4 lb/bu. This entry had an acceptable flour yield of 70.9%, but a low S.E. of 52.9%, which indicates hardness.

The MASON standard was more stringent for Baking Quality Score. Note that the cookie diameters for the MASON checks were .67 cm larger than the historical data.

Note also that the S.E. values for the standards had a 5% difference between regions. Region 1 was fairly stringent at 59.2%, and region 2 was much lower at 54.2%. However, the differences in S.E. values were also exhibited for the rest of the entries as well. (Region 1 averaged 3.4% higher in S.E.).

Cookie diameters were very similar between regions, averaging 17.8 cm in both regions. The standards at 17.91 cm were representative of the nurseries. Entries with Baking Quality Scores below "B" usually had small cookies.

Baking Quality Scores of "A" or "B" were acceptable. "C" entries usually had some quality shortcomings. For example, cookie diameter might be acceptable, but S.E. was very low.

Note the low Baking Quality Score for entry #7 (S9412192), averaging 59.4, with a cookie diameter of 16.77 cm. This entry also had low Milling Quality Score, with an average of 83.4 and a flour yield of 67.3%.

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

REGION 1
STD = #2503, MASON

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU
****		STANDARD	100.0 A	100.0 A	100.0 A	60.3
2501	1	Coker 9835	104.8 A	95.3 B	95.3 B	60.4
2502	2	Coker 9663	96.2 B	92.6 C	92.6 C	61.4
2503	3	Mason	100.0 A	99.9 A	99.9 A	60.3
2504	4	GA89482E7	105.5 A	106.3 A	105.5 A	62.7
2505	5	SC921285	96.2 B	83.6 E	83.6 E	61.9
2506	6	SC921299	95.8 B	87.8 D	87.8 D	61.5
2507	7	S9412192	84.9 E	62.6 F	62.6 F	60.0
2508	8	LA90115C25-36-2	99.5 B	102.3 A	99.5 B	60.0
2509	9	LA90518PB4331-4	103.7 A	97.1 B	97.1 B	60.7
2510	10	LA8983B14-31-4	96.0 B	107.7 A	96.0 B	60.6
2511	11	LA90185G31-34-2	100.9 A	100.6 A	100.6 A	61.3
2512	12	VA96W-270	99.4 B	92.7 C	92.7 C	60.4
2513	13	VA97W-206	97.0 B	95.7 B	95.7 B	61.4
2514	14	VA98W-593	99.9 A	83.9 E	83.9 E	64.3
2515	15	AW-M96'4403	101.8 A	104.5 A	101.8 A	61.5
2516	16	AW-D97-6750	100.5 A	96.2 B	96.2 B	62.8
2517	17	AW-M94'1626-7	88.6 D	91.9 C	88.6 D	62.3
2518	18	NC96-13155	102.0 A	101.9 A	101.9 A	62.2
2519	19	NC96-13965	104.0 A	105.3 A	104.0 A	62.4
2520	20	B950590	105.0 A	107.5 A	105.0 A	60.3
2521	21	B950904	100.6 A	107.5 A	100.6 A	61.8
2522	22	B950943	97.5 B	93.2 C	93.2 C	61.0
2523	23	TX96D1320	94.1 C	96.7 B	94.1 C	59.4
2524	24	TX97D4556	90.8 C	92.9 C	90.8 C	61.5
2525	25	TX97D6719	87.4 D	82.4 E	82.4 E	62.0
2526	26	TX97D6737	102.8 A	103.0 A	102.8 A	60.7
2527	27	TX91-27	92.2 C	90.6 C	90.6 C	60.2
2528	28	TX91-57	90.3 C	89.4 D	89.4 D	60.9
2529	29	AR656-5-1	99.7 B	103.3 A	99.7 B	61.5
2530	30	AR647-1-6	102.3 A	97.9 B	97.9 B	62.4
2531	31	GA90552AE33	98.5 B	90.4 C	90.4 C	63.5
2532	32	GA93059LE6	90.6 C	86.7 D	86.7 D	61.6
2533	33	GA91426E39	89.7 D	83.0 E	83.0 E	61.4

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

REGION 1
STD = #2503, MASON

	ENTRY	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
	STANDARD	59.2	70.8	8.91	57.3	17.91	5
1	Coker 9835	64.9	71.2	8.13	61 Q	18.01	5
2	Coker 9663	52.0 Q	70.9	8.52	56.3	17.76	5
3	Mason	59.2	70.8	8.90	57.3	17.91	5
4	GA89482E7	58.3	73.1	8.75	56.5	18.15	5
5	SC921285	59.7	69.6 *	9.64	59.6 *	17.38 Q	4
6	SC921299	59.5	69.6 *	9.98	59.1 *	17.53 *	5
7	S9412192	55.5 *	67.6 Q	9.17	61.7 Q	16.83 Q	4
8	LA90115C25-36-2	56.1	71.2	9.01	56.4	18.05	6
9	LA90518PB4331-4	58.6	71.8	10.01	55.7	17.68	4
10	LA8983B14-31-4	59.4	69.7 *	8.81	55	18.5	6
11	LA90185G31-34-2	59.0	71.0	8.91	56.5	17.85	6
12	VA96W-270	54.5 *	71.4	9.39	54.8	17.65 *	5
13	VA97W-206	53.7 *	70.8	7.96	54.8	17.83	7
14	VA98W-593	56.6	70.8	8.95	61.8 Q	17.8	5
15	AW-M96'4403	56.0	71.7	8.66	55	18.23	6
16	AW-D97-6750	57.6	70.9	9.59	55.8	17.68	4
17	AW-M94'1626-7	56.4	68.1 Q	10.37	56.1	17.53 *	4
18	NC96-13155	53.2 *	73.5	9.81	55.3	18.3	6
19	NC96-13965	56.9	72.0	9.57	54.7	18.22	4
20	B950590	59.2	72.5	8.40	55.7	18.3	4
21	B950904	59.1	70.8	9.13	55.3	18.38	6
22	B950943	53.8 *	71.0	8.59	56.7	17.75	6
23	TX96D1320	55.5 *	70.0 *	9.70	55.7	17.8	6
24	TX97D4556	51.2 Q	69.6 *	9.53	55.1	17.81	4
25	TX97D6719	59.7	67.4 Q	9.14	61.9 Q	17.6 *	4
26	TX97D6737	55.5 *	72.7	9.52	53.6	18.1	4
27	TX91-27	55.0 *	69.5 *	9.63	56.1	17.53 *	5
28	TX91-57	54.6 *	69.0 Q	9.25	56.8	17.55 *	4
29	AR656-5-1	54.7 *	71.3	8.82	56.2	18.48	6
30	AR647-1-6	53.4 *	72.1	9.22	56.1	17.95	5
31	GA90552AE33	53.7 *	71.0	9.46	55.4	17.58 *	4
32	GA93059LE6	58.0	68.5 Q	8.70	58.9 *	17.53 *	4
33	GA91426E39	54.3 *	68.9 Q	9.09	58.5	17.47 *	4

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

REGION 1
STD = #2503, MASON

	ENTRY	LACTIC ACID ABSORP
	STANDARD	
1	Coker 9835	103.9
2	Coker 9663	115.5
3	Mason	123.6
4	GA89482E7	110.3
5	SC921285	146.7
6	SC921299	145.8
7	S9412192	100.0
8	LA90115C25-36-2	103.7
9	LA90518PB4331-4	117.9
10	LA8983B14-31-4	115.7
11	LA90185G31-34-2	113.5
12	VA96W-270	103.3
13	VA97W-206	113.7
14	VA98W-593	108.8
15	AW-M96'4403	119.8
16	AW-D97-6750	134.9
17	AW-M94'1626-7	146.0
18	NC96-13155	116.2
19	NC96-13965	126.4
20	B950590	118.4
21	B950904	129.8
22	B950943	123.7
23	TX96D1320	122.1
24	TX97D4556	129.5
25	TX97D6719	114.8
26	TX97D6737	117.6
27	TX91-27	117.5
28	TX91-57	125.7
29	AR656-5-1	90.7
30	AR647-1-6	109.9
31	GA90552AE33	114.2
32	GA93059LE6	106.3
33	GA91426E39	111.9

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

REGION 2
STD = #2553, MASON

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	
****		STANDARD	100.0 A	100.0 A	100.0 A	61.4	
2551	1	Coker 9835	103.4 A	96.0 B	96.0 B	59.7	*
2552	2	Coker 9663	92.3 C	85.6 D	85.6 D	61.9	
2553	3	Mason	100.1 A	100.1 A	100.1 A	61.4	
2554	4	GA89482E7	104.3 A	96.4 B	96.4 B	62.2	
2555	5	SC921285	97.2 B	90.6 C	90.6 C	62.5	
2556	6	SC921299	94.6 C	90.9 C	90.9 C	62.7	
2557	7	S9412192	81.8 E	56.2 F	56.2 F	59.2	*
2558	8	LA90115C25-36-2	100.5 A	103.3 A	100.5 A	60.8	
2559	9	LA90518PB4331-4	100.8 A	98.0 B	98.0 B	60.1	*
2560	10	LA8983B14-31-4	94.7 C	108.8 A	94.7 C	60.9	
2561	11	LA90185G31-34-2	100.8 A	100.9 A	100.8 A	60.4	
2562	12	VA96W-270	95.2 B	97.8 B	95.2 B	61.5	
2563	13	VA97W-206	95.6 B	93.9 C	93.9 C	60.9	
2564	14	VA98W-593	98.0 B	83.0 E	83.0 E	64.5	
2565	15	AW-M96'4403	101.0 A	105.6 A	101.0 A	61.5	
2566	16	AW-D97-6750	96.1 B	102.2 A	96.1 B	62.8	
2567	17	AW-M94'1626-7	86.2 D	99.8 B	86.2 D	62.5	
2568	18	NC96-13155	103.1 A	103.6 A	103.1 A	62.9	
2569	19	NC96-13965	103.8 A	108.3 A	103.8 A	63.3	
2570	20	B950590	103.7 A	104.7 A	103.7 A	61.1	
2571	21	B950904	98.9 B	109.5 A	98.9 B	62.8	
2572	22	B950943	97.1 B	99.8 B	97.1 B	61.5	
2573	23	TX96D1320	90.5 C	101.3 A	90.5 C	59.9	*
2574	24	TX97D4556	86.8 D	85.9 D	85.9 D	61.2	
2575	25	TX97D6719	86.7 D	93.5 C	86.7 D	62.9	
2576	26	TX97D6737	103.4 A	105.4 A	103.4 A	61.1	
2577	27	TX91-27	92.2 C	101.1 A	92.2 C	60.6	
2578	28	TX91-57	89.1 D	90.6 C	89.1 D	62.0	
2579	29	AR656-5-1	100.4 A	103.9 A	100.4 A	60.7	
2580	30	AR647-1-6	103.5 A	100.7 A	100.7 A	62.6	
2581	31	GA90552AE33	98.8 B	91.4 C	91.4 C	63.7	
2582	32	GA93059LE6	88.3 D	86.2 D	86.2 D	61.7	
2583	33	GA91426E39	91.5 C	73.6 F	73.6 F	63.6	

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

REGION 2
STD = #2553, MASON

	ENTRY	SOFT. EQUI.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
	STANDARD	54.2	71.1	9.18	57.2	17.9	6
1	Coker 9835	61.7	71.2	7.96	59.5 *	17.9	6
2	Coker 9663	48.3 Q	70.1 *	8.76	58.4	17.7 *	7
3	Mason	54.2	71.1	9.18	57.2	17.9	6
4	GA89482E7	52.7	73.1	9.52	56.8	17.8	5
5	SC921285	55.3	70.0 *	10.06	58.0	17.5 *	4
6	SC921299	55.0	69.4 Q	10.62	58.2	17.6 *	4
7	S9412192	51.8	67.1 Q	9.60	63.6 Q	16.7 Q	3
8	LA90115C25-36-2	54.1	71.2	9.14	56.6	18.0	5
9	LA90518PB4331-4	55.4	71.2	10.20	56.8	17.7	4
10	LA8983B14-31-4	55.4	69.5 *	8.91	55.8	18.5	6
11	LA90185G31-34-2	57.6	70.7	8.55	57.3	17.9	6
12	VA96W-270	50.2 *	70.5	9.38	55.1	17.9	6
13	VA97W-206	52.9	70.2 *	9.52	56.8	17.6 *	5
14	VA98W-593	49.3 *	71.1	8.52	60.2 *	17.7	7
15	AW-M96'4403	52.3	71.6	9.78	53.7	18.2	5
16	AW-D97-6750	54.5	69.8 *	10.26	54.7	17.9	5
17	AW-M94'1626-7	54.2	67.4 Q	10.85	55.5	17.8	4
18	NC96-13155	50.4 *	73.3	9.80	55.0	18.6	7
19	NC96-13965	54.9	71.7	9.68	53.1	18.5	5
20	B950590	55.0	71.9	9.17	55.0	18.0	4
21	B950904	56.1	70.3 *	9.29	55.9	18.2	5
22	B950943	50.9 *	70.9	8.92	56.3	18.0	6
23	TX96D1320	51.2 *	69.3 Q	8.88	54.8	18.0	7
24	TX97D4556	47.6 Q	68.9 Q	10.08	55.1	17.4 *	4
25	TX97D6719	55.8	67.2 Q	8.85	59.4 *	17.8	4
26	TX97D6737	52.1	72.8	9.67	53.2	18.2	4
27	TX91-27	53.0	69.4 Q	9.65	55.2	17.9	4
28	TX91-57	50.5 *	68.8 Q	9.27	57.1	17.6 *	5
29	AR656-5-1	52.1	71.6	9.20	56.2	18.1	7
30	AR647-1-6	51.2 *	72.4	9.06	56.1	18.0	8
31	GA90552AE33	51.1 *	71.0	9.42	56.6	17.6 *	4
32	GA93059LE6	53.4	68.2 Q	8.63	60.6 Q	17.7	5
33	GA91426E39	51.7	69.1 Q	8.77	59.3 *	17.0 Q	4

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

REGION 2
STD = #2553, MASON

	ENTRY	LACTIC ACID ABSORP
	STANDARD	
1	Coker 9835	86.0
2	Coker 9663	107.9
3	Mason	109.7
4	GA89482E7	102.5
5	SC921285	132.6
6	SC921299	130.5
7	S9412192	89.9
8	LA90115C25-36-2	87.9
9	LA90518PB4331-4	106.6
10	LA8983B14-31-4	106.3
11	LA90185G31-34-2	96.0
12	VA96W-270	97.7
13	VA97W-206	102.9
14	VA98W-593	109.2
15	AW-M96'4403	114.2
16	AW-D97-6750	125.1
17	AW-M94'1626-7	134.8
18	NC96-13155	98.8
19	NC96-13965	118.7
20	B950590	111.9
21	B950904	123.8
22	B950943	106.5
23	TX96D1320	110.0
24	TX97D4556	122.2
25	TX97D6719	102.7
26	TX97D6737	105.1
27	TX91-27	104.8
28	TX91-57	116.6
29	AR656-5-1	82.0
30	AR647-1-6	107.2
31	GA90552AE33	103.2
32	GA93059LE6	100.6
33	GA91426E39	102.0