UNITED STATES DEPARTMENT OF AGRICULTURE
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1998 - 99

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 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
P.O. Box 307
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1998-99 UNIFORM SOUTHERN SOFT RED WINTER WHEAT NURSERY

LIST OF ENTRIES AND PEDIGREES

Entry No.	Cultivar/ Designation	Pedigree	Contributor	1st Year in Nurs
1	FL 302	Coker 65-20//P4946A4-18-2-10-1/Hadden/3/Vogel/5/ Anderson//P4946A4-18-2-10-1/Hadden	Check	81-82
2	Coker 9835	Coker 85-20/Pioneer 2550	Check	91-92
3	Coker 9663	IN71761A4-31-5-48/FL 302	Check	97-98
4	Mason	Cardinal//MN74143/Oligoculm/3/Coker 9323	Check	97-98
5	AR 494B-2-2	Pioneer 2550/Keiser	R.Bacon	96-97
6	GA89482E7	Pio.2551/PF84301//FL 302	J.Johnson	97-98
7	BL930390	AL850046/Ck86-23	J.Hancock	97-98
8	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
9	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
10	FL8868	FL302-H9 backcross line/GA781176 (McN1003/Ck762)	R.Barnett	97-98
11	AR584A-3-1	FL 302//Coker 833/Hunter	R.Bacon	97-98
12	NC94-7197	Coker 83-23/Bradford//CC(PM1)/3/Coker 8320/4/SXL/C39	P.Murphy	97-98
13	AP-D94-5282	AP-E86-5258/AP-SW85-5009	B.Fogleman	97-98
14	GA90524E35	Coker 9835//FL302/Gore	Johnson/Barnett	98-99
15	GA901146E15	831127-3//821264*3/79102	Johnson/Barnett	98-99
16	S9412192	FL7925-G47-J10/FL8062-E4-H7-J1	D.Graham	98-99
17	HT98-10291	Tyler*2/C65-20/Atr	K.Hellewell	98-99
18	HT98-10033	Feland/Becker//Chay/Stella	K.Hellewell	98-99
19	XW672	2548/3/2555*3//2555 sib/KU81H1640/5/McN1003/Caldwell/4/ IN4946A4/MoW7510//Cok71/3/2550 sib	B.Edge	98-99
20	XW674	Aurora/Tyler//2553/2550 sib/3/Cok 983/4/Cok 87-13	B.Edge	98-99
21	BL940026	Coker 762//Coker 75-30//Coker 80-28	J.Hancock	98-99
22	BL940812	Coker 9803/Coker 9835	J.Hancock	98-99
23	APD95-7763	Wakefield/Coker 9877	B.Fogleman	98-99
24	APD95*8811-1	Coker 9835/APE87-1785	B.Fogleman	98-99
25	APD95*8811-2	Coker 9835/APE87-1785	B.Fogleman	98-99
26	NC95-25305	C39/3/FL302/C8320//Cc(Pm1)	P.Murphy	98-99
27	NC95-25707	C8629/3/KS8338422//Stella/Caldwell	P.Murphy	98-99
28	VA96-54-326	SC861562/Coker 9803	C.Griffey	98-99
29	VA97W-375	Coker 9803/Freedom	C.Griffey	98-99
30	TX91-13	FL8172-G98-L5/Gore	L.Nelson	98-99
31	TX87-20	Caldwell/Siouxland	L.Nelson	98-99
32	LA8513B1-7-B-1-4-2	FL302/Coker 762	S.Harrison	98-99
33	LA90144B16-3-2	Pioneer 2548/Coker 9835	S.Harrison	98-99
34	LA90412F14-1-4	..ms/3/Ck983/4/..ms/3/N76-261/5/SC810779/6/OP-ms/7/ Ck797/8/Ck9835	S.Harrison	98-99
35	LA9070G45-3-3-1	Savannah/CEP75203//FL85363-G21-6	S.Harrison	98-99

LOCATION NOTES

Belle Mina, Alabama

cooperators:	Kathryn M. Glass
	Auburn University
planted:	11/30/98
harvested:	6/18/99

Bay, Arkansas

cooperators:	June A. Hancock
	Novartis Seeds, Inc.
planted:	10/18/98
harvested:	6/9/99

Fayetteville, Keiser, Kibler, Rohwer, Arkansas

cooperators:	Eugene A. Milus
	University of Arkansas

Keiser, Arkansas

cooperators:	Robert K. Bacon, John T. Kelly
	University of Arkansas
planted:	10/2/98
harvested:	6/16/99
fertilizer:	150-35-0

Marianna, Florida

cooperators:	Ronald D. Barnett, L. Schell
	University of Florida
planted:	12/9/99
harvested:	6/2/99
fertilizer:	75-50-75

Quincy, Florida

cooperators:	Ronald D. Barnett, L. Schell
	University of Florida
planted:	11/25/99
harvested:	5/31/99
fertilizer:	75-50-75

Griffin, Georgia

cooperators:	Jerry W. Johnson, Barry M. Cunfer, Dan Bland
	University of Georgia
planted:	11/3/98
harvested:	5/31/99
fertilizer:	100-40-60

Plains, Georgia

cooperators:	Jerry W. Johnson, Barry M. Cunfer, Dan Bland
	University of Georgia
planted:	11/11/98
harvested:	5/20/99
fertilizer:	95-40-60

Plains, Georgia

cooperators:	David Buntin University of Georgia
comments:	Provided Hessian fly data.

Aberdeen, Idaho

cooperators:	Charles Erickson, Scott McNeil, Harold Bockelman USDA-ARS National Small Grains Germplasm Research Facility
comments:	Nursery was abandoned due to winterkill caused mainly by standing water.

Nashville, Illinois

cooperators:	Koy E. Miskin Hybritech Seeds International, Inc.

Lafayette, Indiana

cooperators:	Koy E. Miskin Hybritech Seeds International, Inc.
comments:	Rhizoctonia and heading notes only.

West Lafayette, Indiana

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

Fulton Co., Kentucky

cooperators:	David A. Van Sanford University of Kentucky
planted:	10/20/98
harvested:	6/15/99
fertilizer:	P and K according to soil test; N 60# @ GS4, 50# @ GS6

Lexington, Kentucky

cooperators:	David A. Van Sanford University of Kentucky
planted:	10/21/98
harvested:	6/30/99
fertilizer:	P and K according to soil test; N 60# @ GS4, 50# @ GS6

Winfield, Kansas

cooperators:	Sid W. Perry Cargill-Goertzen Seed Research
comments:	Nursery was lost due to poor stands caused by heavy rains in the fall.

Baton Rouge, Louisiana

cooperators:	Stephen A. Harrison, K. Arceneaux Louisiana State University
planted:	11/27/99
harvested:	5/21/99
fertilizer:	106-48-48
Comments:	Very warm winter with a number of lines that failed to vernalize. These are not entered into the yield mean. **Lodging notes were taken very early (4-19, day 109). This note indicates lodging resulting from minor freeze damage, not stalk lodging. Most plots collapsed in the center, leaving the outside rows standing upright, during early grainfill. Large heading differences resulted in some varieties weathering considerably before harvest and biased test weights. Additionally, the freeze-lodging resulted in each plot having a mix of high quality seed (out side rows) and low quality seed (interior rows).

Queenstown, Maryland

cooperators:	Jose Costa, Emma Shirley University of Maryland
planted:	10/15/98
harvested:	7/12/99
fertilizer:	fall 16-34-66; spring 80-0-0
comments:	Mild winter. Dry and hot spring. Some test weights low due to pre-harvest sprouting.

St. Paul, Minnesota

cooperators:	Donald V. McVey, David L. Long USDA-ARS Cereal Disease Laboratory
comments:	Provided seedling leaf rust (Dave Long) and stem rust (Don McVey) data.

Brooksville, Mississippi

cooperators:	Larry E. Trevathan Mississippi State University
harvested:	6/17/99

Cleveland, Mississippi

cooperators:	J. Barton Fogleman, Michael L. Montgomery AgriPro Seeds, Inc.
planted:	10/13/98
harvested:	5/28/99
comments:	Plot yields highly variable due to lodging (probably related to high residual N).

Portageville, Missouri

cooperators:	Anne L. McKendry, David N. Tague University of Missouri
planted:	10/22/98
harvested:	7/2/99
fertilizer:	fall 40-0-0; spring 80-0-0
comments:	Fall was very wet, both before and after planting, reducing stands (as reflected in low survival). Winter was very mild, not a lot of disease pressure although leaf rust evident at heading.

Lincoln, Nebraska

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

Kinston, North Carolina

cooperators:	Paul Murphy North Carolina State University
planted:	10/20/98
harvested:	6/3/99
fertilizer:	120-0-0
comments:	Very mild winter, but late freeze knocked back early materials. Heavy mildew and BYDV. Rust came in late. An average to good test.

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). A total of thirty-eight isolates were used to represent all relevant virulence genes known and a range in aggressiveness. A number of common checks also were included.

Rowland, North Carolina

cooperators:	Benjamin E. Edge Pioneer Hi-Bred International, Inc.
planted:	11/24/98
harvested:	7/9/99
fertilizer:	preplant 20-52-144-16; topdress 80-0-0-0
comments:	Drier than normal growing season. Cool spring. Frequent rains during harvest.

Wooster, Ohio

cooperators:	Kim Campbell, Larry Herald, Barb Franchino Ohio State University, OARCD
planted:	9/28/98
harvested:	7/9&12/99
fertilizer:	12-48-48; topdress 100-0-0
comments:	Mild winter; warm, dry spring. Light disease pressure. Early harvest. Second lodging rating was harder on lines.

Wooster, Ohio

cooperators:	Patrick L. Finney USDA-ARS Soft Wheat Quality Lab
comments:	Quality data. Region 1 (interior, lower leaf rust) includes samples from: Bay, AR; Stuttgart, AR; Queenstown, MD; Univ. Park, PA; Clemson, SC; Knoxville, TN; Overton, TX; Warsaw, VA. Region 2 (warmer, higher leaf rust) includes samples from: Belle Mina, AL; Marianna, FL; Griffin, GA; Plains, GA; Brooksville, MS; Kinston, NC; Florence, SC; St. Matthews, SC.

Stillwater, 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).

University Park, Pennsylvania

cooperators:	Marvin L. Risius Pennsylvania State University
planted:	9/30/98
harvested:	7/10/99
fertilizer:	80-26-50
comments:	Winter weather was mild with limited snow cover. Rainfall was 23% above average in April, 60% below average in May, and 30% below average in June.

Clemson, South Carolina

cooperators:	W. Doyce Graham, Jr Clemson University
planted:	10/28/98
harvested:	6/7/99
fertilizer:	80-70-70

Florence, South Carolina

cooperators:	W. Doyce Graham, Jr. Clemson University
planted:	11/19/98
harvested:	6/3/99
fertilizer:	80-70-70

St. Matthews, South Carolina

cooperators:	Benjamin E. Edge Pioneer Hi-Bred International, Inc.
planted:	12/4/98
harvested:	6/10/99
fertilizer:	preplant 30-25-100-15; topdress 80-0-0-0
comments:	Extremely dry growing conditions from March 1 to harvest.

Knoxville, Tennessee

cooperator:	Dennis West University of Tennessee
planted:	11/3/98
harvested:	6/15/99
fertilizer:	70-75-75
comments:	Very mild winter. Very dry during grain fill with light disease pressure.

Beeville, Texas

cooperators:	David S. Marshall Texas A&M University

Overton, Texas

cooperators:	Lloyd R. Nelson Texas A&M University
planted:	10/22/98
harvested:	5/19/99
fertilizer:	preplant 50-100-100; topdress 27-0-0 on 2/1, 25-50-50 on 2/3, 52-52-52 on 2/23, 30-0-0 on 3/1

Prosper, Texas

cooperators:	David S. Marshall Texas A&M University

Warsaw, Virginia

cooperators:	Carl A. Griffey Virginia Tech
planted:	1/05/98
harvested:	6/26/99
fertilizer:	10/5 30-30-100; 12/5 20-0-0 and 0.4oz Harmony Extra; 2/1 30-0-0; 3/30 60-0-0; 5/6 Karate

YIELD (bu/acre)

		BelleMina AL		Bay AR		Keiser AR		Marianna FL		Quincy FL	
		#		#@		#		#		#	
			rank		rank		rank		rank		rank
1	FL 302	77.3	9	70.2	26	68.8	11	32.1	24	33.7	23
2	Coker 9835	80.4	5	63.6	31	71.8	9	55.7	10	59.1	6
3	Coker 9663	79.3	7	88.6	3	75.2	5	56.0	9	46.4	16
4	Mason	77.0	10	73.3	21	54.7	32	56.9	7	47.8	15
5	AR 494B-2-2	76.8	12	81.1	10	62.0	18	49.1	18	52.2	12
6	GA89482E7	82.8	3	82.2	7	78.0	1	55.5	11	53.8	10
7	BL930390	75.2	15	73.4	20	64.8	15	17.2	28	12.4	32
8	SC921285	73.6	18	59.0	34	55.1	30	15.0	30	24.3	27
9	SC921299	71.7	22	60.2	33	61.4	22	12.6	31	29.6	25
10	FL8868	73.2	19	77.9	13	72.7	8	53.6	13	50.2	13
11	AR584A-3-1	69.6	26	92.7	2	65.1	14	16.6	29	23.4	28
12	NC94-7197	69.0	27	73.8	18	54.8	31	40.6	20	46.3	17
13	AP-D94-5282	73.1	20	72.1	24	57.5	26	18.1	27	19.0	29
14	GA90524E35	72.7	21	70.2	27	63.3	17	67.4	1	57.2	8
15	GA901146E15	76.6	13	73.0	22	75.6	4	49.0	19	54.4	9
16	S9412192	74.8	16	54.8	35	54.6	33	56.5	8	52.2	11
17	HT98-10291	67.1	30	82.0	8	73.8	6	2.9	33	10.7	33
18	HT98-10033	59.4	34	67.1	29	61.6	21	2.7	35	4.7	35
19	XW672	67.5	29	72.2	23	67.5	13	60.7	6	71.7	1
20	XW674	79.0	8	81.1	9	57.1	27	37.5	22	44.8	18
21	BL940026	76.2	14	73.4	19	57.7	25	65.7	2	57.7	7
22	BL940812	73.7	17	66.6	30	56.2	28	23.2	26	17.5	30
23	APD95-7763	79.6	6	101.0	1	77.5	2	49.2	17	43.4	19
24	APD95*8811-1	81.9	4	74.3	16	68.4	12	62.7	4	41.3	21
25	APD95*8811-2	77.0	11	77.7	14	70.0	10	51.6	16	37.1	22
26	NC95-25305	66.7	31	68.7	28	52.2	35	55.4	12	62.6	2
27	NC95-25707	56.7	35	71.9	25	61.2	24	29.0	25	28.9	26
28	VA96-54-326	68.7	28	80.1	11	61.9	20	35.0	23	48.8	14
29	VA97W-375	70.1	24	85.2	4	64.0	16	11.5	32	13.6	31
30	TX91-13	69.9	25	85.2	5	61.9	19	38.7	21	30.2	24
31	TX87-20	63.2	33	74.1	17	61.2	23	2.9	34	7.8	34
32	LA8513B1-7-B-1-4-2	71.5	23	84.7	6	53.1	34	52.4	14	41.8	20
33	LA90144B16-3-2	85.8	1	79.5	12	73.8	7	51.7	15	59.2	5
34	LA90412F14-1-4	65.8	32	62.6	32	55.8	29	64.7	3	61.9	3
35	LA9070G45-3-3-1	85.1	2	74.4	15	76.3	3	61.2	5	61.9	4
LOCATION MEANS		73.4		75.1		64.2		40.3		40.2	
LSD (.05)				9.8		11.7		10.4		9.6	
CV %				9.3		11.2		15.8		14.7	
REPS		4		4		3		3		3	
Harvest Plot Area (sq.ft.)		100		53.8		40.8		55		55	

YIELD (bu/acre)

		Griffin GA		Plains GA		Nashville IL		Fulton Co. KY		Lexington KY	
		#@		#		@		#@		#	
			rank		rank		rank		rank		rank
1	FL 302	71.3	16	26.4	33	65.6	14	67.2	21	40.8	27
2	Coker 9835	56.6	33	82.6	10	65.9	12	55.3	35	47.9	13
3	Coker 9663	73.2	13	67.5	20	65.9	11	76.5	3	43.0	21
4	Mason	65.8	25	63.7	23	65.1	17	68.6	17	36.2	32
5	AR 494B-2-2	75.8	8	78.6	15	64.0	23	74.7	6	57.4	2
6	GA89482E7	84.6	1	98.6	2	70.2	6	83.8	1	44.2	20
7	BL930390	61.9	30	37.6	30	65.1	18	68.1	18	57.4	3
8	SC921285	62.2	28	54.7	27	59.9	32	55.9	34	33.3	35
9	SC921299	61.9	29	50.9	28	61.8	26	58.5	30	40.2	30
10	FL8868	75.8	9	87.4	7	65.3	15	73.3	10	44.7	19
11	AR584A-3-1	69.7	17	70.9	16	70.6	5	64.9	24	49.3	12
12	NC94-7197	65.8	26	83.0	9	65.7	13	65.8	23	45.1	17
13	AP-D94-5282	68.0	20	49.3	29	73.3	3	62.6	28	41.7	23
14	GA90524E35	80.3	2	101.7	1	65.3	16	69.1	16	39.1	31
15	GA901146E15	80.3	3	80.0	12	79.5	2	71.5	12	56.8	4
16	S9412192	60.1	31	59.0	26	61.0	29	73.4	9	35.7	33
17	HT98-10291	60.0	32	12.0	35	66.5	10	56.8	32	41.1	25
18	HT98-10033	52.1	35	28.7	32	60.6	30	63.9	26	41.0	26
19	XW672	75.6	10	98.3	3	64.8	19	68.1	19	44.8	18
20	XW674	78.1	5	88.5	6	81.5	1	74.4	7	52.5	8
21	BL940026	67.6	22	79.0	14	62.5	24	75.0	5	41.6	24
22	BL940812	74.3	11	64.1	21	68.2	8	69.1	15	50.7	10
23	APD95-7763	72.4	14	63.2	24	61.8	25	69.4	14	46.4	15
24	APD95*8811-1	67.8	21	91.8	4	61.4	28	75.7	4	51.3	9
25	APD95*8811-2	75.9	7	69.4	18	53.7	35	73.1	11	52.7	6
26	NC95-25305	66.8	24	64.1	22	58.3	34	58.5	31	40.7	28
27	NC95-25707	63.4	27	61.6	25	59.6	33	61.5	29	40.3	29
28	VA96-54-326	71.5	15	70.1	17	64.6	20	63.6	27	52.7	7
29	VA97W-375	68.9	19	31.0	31	67.6	9	55.9	33	57.7	1
30	TX91-13	73.5	12	81.0	11	72.0	4	73.6	8	54.3	5
31	TX87-20	54.2	34	21.4	34	64.4	22	64.6	25	34.2	34
32	LA8513B1-7-B-1-4-2	77.7	6	67.9	19	61.6	27	70.4	13	42.6	22
33	LA90144B16-3-2	67.4	23	79.6	13	69.1	7	67.8	20	47.4	14
34	LA90412F14-1-4	69.0	18	88.8	5	60.2	31	66.4	22	45.5	16
35	LA9070G45-3-3-1	79.4	4	86.3	8	64.5	21	81.0	2	49.9	11
LOCATION MEANS		69.4		66.8		65.3		67.9		45.7	
LSD (.05)		9.1		17.3		7.9		10.5		7.5	
CV %		6.7		10.9		8.9		9.1		12.1	
REPS		2		3		3		2		3	
Harvest Plot Area (sq.ft.)		50		50		45		40		40	

YIELD (bu/acre)

		BatonRouge LA		Queenstown MD		Portageville MO		Brooksville MS		Cleveland MS	
		#		#@		#@		#		#	
			rank		rank		rank		rank		rank
1	FL 302	50.4	25	76.8	22	55.4	17	37.6	8	26.4	18
2	Coker 9835	70.5	8	84.3	12	53.6	21	34.7	17	16.7	32
3	Coker 9663	63.9	16	74.4	25	52.8	23	38.8	5	26.2	19
4	Mason	76.2	2	80.4	18	49.8	27	31.4	24	33.9	12
5	AR 494B-2-2	56.2	22	76.9	21	65.0	5	37.5	9	25.8	21
6	GA89482E7	68.8	10	90.0	3	68.8	1	41.1	2	25.5	22
7	BL930390			79.2	20	61.4	7	30.9	25	34.6	11
8	SC921285	44.2	27	69.2	31	42.6	32	37.6	7	26.4	17
9	SC921299	38.7	28	81.7	16	40.5	35	33.5	22	31.1	13
10	FL8868	63.3	18	71.4	29	42.5	33	37.4	10	20.2	29
11	AR584A-3-1			82.5	15	65.3	3	30.2	27	53.5	2
12	NC94-7197	53.1	24	84.7	11	40.7	34	28.0	30	38.5	9
13	AP-D94-5282	45.8	26	85.6	9	55.2	18	36.5	12	39.1	8
14	GA90524E35	74.6	5	69.8	30	54.0	20	38.3	6	15.6	35
15	GA901146E15	75.1	3	86.3	7	56.6	15	26.0	31	43.2	4
16	S9412192	66.8	11	76.5	23	50.5	26	36.1	13	30.1	14
17	HT98-10291			66.6	32	55.5	16	29.3	29	67.3	1
18	HT98-10033			60.8	35	44.9	31	24.7	34	25.9	20
19	XW672	65.8	13	87.4	4	57.8	14	36.0	15	29.0	15
20	XW674	60.6	21	99.0	1	53.4	22	38.9	4	21.9	25
21	BL940026	62.7	19	85.7	8	58.9	11	41.2	1	23.1	24
22	BL940812			86.8	6	54.5	19	39.6	3	41.6	7
23	APD95-7763	78.8	1	62.9	34	64.3	6	34.2	19	43.2	5
24	APD95*8811-1	74.9	4	85.2	10	59.9	10	33.8	20	16.6	33
25	APD95*8811-2	61.5	20	81.2	17	67.4	2	34.6	18	20.9	28
26	NC95-25305	55.4	23	84.2	13	51.5	25	25.2	33	35.5	10
27	NC95-25707	63.7	17	63.3	33	58.2	13	17.3	35	28.4	16
28	VA96-54-326	64.4	15	87.0	5	48.4	29	32.8	23	41.8	6
29	VA97W-375			79.5	19	60.0	9	25.9	32	44.7	3
30	TX91-13	65.0	14	73.9	26	65.3	4	33.6	21	21.8	26
31	TX87-20			75.6	24	44.9	30	35.2	16	25.3	23
32	LA8513B1-7-B-1-4-2	69.6	9	71.5	28	58.5	12	30.2	28	18.6	31
33	LA90144B16-3-2	71.3	7	83.5	14	52.6	24	37.0	11	21.2	27
34	LA90412F14-1-4	66.1	12	72.7	27	48.6	28	30.7	26	16.5	34
35	LA9070G45-3-3-1	73.6	6	90.1	2	60.7	8	36.0	14	20.1	30
LOCATION MEANS		63.6		79.0		54.9		33.5		30.0	
LSD (.05)		10.2		12.3		7.1		6.67		11.5	
CV %		12		9.5		7.9		16.99		23.1	
REPS		3		3		3		4		3	
Harvest Plot Area (sq.ft.)		57		56		55.5		95		52	

YIELD (bu/acre)

		Kinston NC		Rowland NC		Wooster OH		Univ.Park PA		Clemson SC	
		#		#@		@				#@	
			rank		rank		rank		rank		rank
1	FL 302	39.0	33	52.4	32	81.4	23	112	17	96	6
2	Coker 9835	41.1	31	70.0	16	87.7	15	120	9	82	26
3	Coker 9663	48.9	25	65.5	21	84.5	19	114	12	95	8
4	Mason	40.5	32	61.4	26	82.5	20	96	29	77	32
5	AR 494B-2-2	68.9	7	65.9	19	88.4	11	102	26	96	7
6	GA89482E7	52.3	18	67.7	17	86.2	16	113	15	102	2
7	BL930390	55.7	15	78.2	2	97.0	2	115	11	91	15
8	SC921285	49.4	24	55.9	28	78.0	29	90	34	85	20
9	SC921299	51.1	21	52.9	31	82.3	21	90	33	82	27
10	FL8868	45.8	29	59.3	27	77.1	32	95	30	103	1
11	AR584A-3-1	64.3	9	62.5	25	87.8	13	102	27	81	30
12	NC94-7197	70.1	6	66.1	18	89.1	9	109	20	83	25
13	AP-D94-5282	64.1	10	62.9	24	88.2	12	109	21	75	33
14	GA90524E35	55.7	16	70.8	15	79.4	27	111	19	81	29
15	GA901146E15	75.8	2	72.3	10	93.9	4	128	3	83	24
16	S9412192	17.2	35	63.4	22	56.6	35	91	32	78	31
17	HT98-10291	51.2	20	40.6	35	80.0	26	86	35	82	28
18	HT98-10033	41.9	30	48.0	34	78.0	28	121	8	74	34
19	XW672	66.5	8	71.4	12	97.1	1	132	1	93	11
20	XW674	75.7	3	72.1	11	92.8	5	131	2	97	4
21	BL940026	63.6	11	77.2	3	77.3	31	112	18	85	19
22	BL940812	74.2	5	74.7	8	90.4	7	127	4	92	12
23	APD95-7763	57.4	13	75.1	6	85.0	17	121	7	94	9
24	APD95*8811-1	50.3	22	76.7	4	87.8	14	124	6	92	13
25	APD95*8811-2	50.1	23	79.4	1	90.0	8	125	5	90	16
26	NC95-25305	51.7	19	71.1	14	81.5	22	92	31	84	23
27	NC95-25707	62.0	12	50.5	33	69.8	34	103	25	84	21
28	VA96-54-326	74.7	4	73.0	9	88.6	10	105	23	94	10
29	VA97W-375	77.1	1	74.9	7	95.6	3	113	14	92	14
30	TX91-13	48.8	26	54.3	29	77.4	30	105	24	100	3
31	TX87-20	54.8	17	54.2	30	84.9	18	109	22	88	17
32	LA8513B1-7-B-1-4-2	38.6	34	65.7	20	80.0	25	99	28	84	22
33	LA90144B16-3-2	48.8	27	63.0	23	90.5	6	117	10	85	18
34	LA90412F14-1-4	47.7	28	71.3	13	71.8	33	114	13	59	35
35	LA9070G45-3-3-1	56.1	14	75.2	5	80.7	24	113	16	96	5
LOCATION MEANS		55.2		65.6		84.0		109.9		87.3	
LSD (.05)		9.6		10.54		9.03				12.5	
CV %		10.7		8.95		6.6				8.8	
REPS		3		2		3		1		3	
Harvest Plot Area (sq.ft.)		55		49.5		45		23.3		35	

YIELD (bu/acre)

		Florence SC		St.Matthews SC		Knoxville TN		Overton TX		Prosper TX	
		#@	rank	#	rank	#@	rank	#	rank	#	rank
1	FL 302	60	19	34.3	24	88	19	28.9	30	52.0	22
2	Coker 9835	68	5	37.6	14	90	15	36.5	21	44.8	30
3	Coker 9663	72	2	41.9	6	95	10	40.1	16	62.3	4
4	Mason	65	13	36.3	17	88	18	27.4	32	55.0	15
5	AR 494B-2-2	50	29	34.5	23	106	2	34.4	23	57.9	10
6	GA89482E7	76	1	43.1	2	98	6	37.3	20	66.6	3
7	BL930390	62	18	36.2	18	96	8	54.0	2	46.0	28
8	SC921285	45	33	32.7	26	77	33	44.8	10	46.8	27
9	SC921299	49	30	30.2	30	78	31	42.2	13	50.0	23
10	FL8868	66	8	35.7	20	84	26	33.4	25	44.6	31
11	AR584A-3-1	57	23	37.6	15	93	13	56.5	1	68.4	1
12	NC94-7197	54	26	40.6	10	73	35	52.9	3	52.2	20
13	AP-D94-5282	57	24	33.2	25	87	21	40.8	14	60.1	6
14	GA90524E35	64	15	41.8	7	84	25	31.2	29	34.0	34
15	GA901146E15	57	25	31.5	28	91	14	40.6	15	61.0	5
16	S9412192	48	32	39.1	12	80	29	22.5	34	41.2	33
17	HT98-10291	41	34	28.3	32	86	24	35.6	22	53.4	18
18	HT98-10033	38	35	20.5	35	89	16	27.7	31	29.4	35
19	XW672	63	17	44.1	1	94	11	39.0	17	58.6	8
20	XW674	66	9	42.1	5	109	1	43.7	12	57.4	11
21	BL940026	66	10	31.0	29	82	27	33.8	24	48.8	25
22	BL940812	58	21	27.9	33	100	5	52.7	4	59.3	7
23	APD95-7763	70	3	42.9	3	95	9	49.4	6	66.8	2
24	APD95*8811-1	66	11	35.1	22	100	4	31.5	28	47.1	26
25	APD95*8811-2	67	6	36.0	19	87	20	33.2	26	54.2	16
26	NC95-25305	51	28	36.4	16	86	23	20.1	35	42.5	32
27	NC95-25707	64	16	29.5	31	81	28	37.4	19	50.0	24
28	VA96-54-326	59	20	41.4	9	86	22	46.5	8	58.2	9
29	VA97W-375	49	31	35.4	21	104	3	52.2	5	55.2	14
30	TX91-13	58	22	41.8	8	96	7	45.9	9	52.7	19
31	TX87-20	53	27	25.1	34	76	34	47.0	7	52.1	21
32	LA8513B1-7-B-1-4-2	70	4	31.9	27	94	12	38.9	18	56.0	12
33	LA90144B16-3-2	66	12	39.2	11	77	32	25.7	33	53.9	17
34	LA90412F14-1-4	65	14	38.2	13	79	30	32.8	27	45.6	29
35	LA9070G45-3-3-1	67	7	42.8	4	88	17	43.9	11	55.6	13
LOCATION MEANS		59.6		35.9		89.1		38.9		52.6	
LSD (.05)		8.7		11.95		11.6		38.6		9.5	
CV %		9		17.95		8		13.9		12.6	
REPS		3		3		3		3			
Harvest Plot Area (sq.ft.)		35		49.5		36		50			

YIELD (bu/acre)

		Warsaw VA		ENTRY MEANS ALL LOCATIONS		ENTRY MEANS IN-REGION		ENTRY MEANS CV <10%	
		#				#		@	
			rank		rank		rank		rank
1	FL 302	62	22	57.9	28	54.2	28	71.3	23
2	Coker 9835	71	13	63.4	16	59.7	18	70.6	24
3	Coker 9663	59	25	65.6	9	62.7	10	76.7	9
4	Mason	62	20	60.5	24	57.8	24	70.6	25
5	AR 494B-2-2	81	5	66.1	8	63.6	7	76.7	8
6	GA89482E7	77	9	71.0	1	68.6	1	82.7	1
7	BL930390	79	7	62.0	20	57.8	23	75.7	12
8	SC921285	53	30	52.7	34	49.7	33	62.7	34
9	SC921299	47	35	53.4	31	50.2	31	64.4	32
10	FL8868	58	27	62.0	21	59.7	19	72.3	20
11	AR584A-3-1	78	8	64.5	14	61.5	13	75.2	15
12	NC94-7197	64	18	61.9	22	58.5	21	69.2	26
13	AP-D94-5282	61	23	59.0	26	55.0	27	71.5	22
14	GA90524E35	54	29	63.3	17	60.4	16	71.6	21
15	GA901146E15	80	6	69.2	4	65.1	5	76.8	7
16	S9412192	51	32	55.0	30	53.1	30	63.8	33
17	HT98-10291	58	26	53.3	32	50.1	32	65.2	31
18	HT98-10033	48	34	48.5	35	43.4	35	61.5	35
19	XW672	81	4	69.5	3	65.8	4	76.8	6
20	XW674	89	1	70.2	2	66.0	3	82.2	2
21	BL940026	68	16	64.3	15	61.8	11	73.7	18
22	BL940812	77	10	64.8	13	60.6	15	75.9	11
23	APD95-7763	54	28	67.6	6	64.8	6	77.4	4
24	APD95*8811-1	70	15	66.4	7	63.2	8	77.0	5
25	APD95*8811-2	72	12	64.9	11	61.7	12	76.6	10
26	NC95-25305	64	19	58.7	27	56.3	26	69.2	27
27	NC95-25707	61	24	56.0	29	53.3	29	66.1	29
28	VA96-54-326	85	3	65.5	10	62.8	9	74.2	17
29	VA97W-375	88	2	62.9	19	58.9	20	75.7	13
30	TX91-13	62	21	63.1	18	60.3	17	75.4	14
31	TX87-20	50	33	52.9	33	48.4	34	66.7	28
32	LA8513B1-7-B-1-4-2	52	31	60.9	23	58.3	22	74.4	16
33	LA90144B16-3-2	73	11	64.8	12	61.3	14	72.9	19
34	LA90412F14-1-4	65	17	60.2	25	57.3	25	66.0	30
35	LA9070G45-3-3-1	70	14	68.8	5	66.5	2	77.9	3

LOCATION MEANS	66.4
LSD (.05)	11.47
CV %	12.71
REPS	3
Harvest Plot Area (sq.ft.)	45

TEST WEIGHT (lbs/bu)

		BelleMina AL	Bay AR	Keiser AR	Marianna FL	Quincy FL
1	FL 302	57.4	53.3	55.9	50.8	53.6
2	Coker 9835	56.4	53.4	53.6	52.2	55.3
3	Coker 9663	58.6	57.5	58.5	55.0	55.9
4	Mason	55.1	55.0	55.8	53.9	53.4
5	AR 494B-2-2	57.7	56.7	57.0	49.7	54.4
6	GA89482E7	58.7	56.8	59.2	53.6	55.9
7	BL930390	56.4	54.4	55.2	44.9	51.2
8	SC921285	57.6	56.1	56.6	47.4	54.8
9	SC921299	57.6	56.4	56.7	48.8	55.0
10	FL8868	56.4	53.3	55.7	49.9	53.4
11	AR584A-3-1	57.2	56.8	56.2	47.7	56.2
12	NC94-7197	58.1	57.9	57.7	50.8	58.1
13	AP-D94-5282	57.3	56.4	56.0	48.3	
14	GA90524E35	55.4	50.7	54.3	52.5	53.0
15	GA901146E15	55.6	54.0	57.2	49.1	52.7
16	S9412192	56.2	53.9	55.7	52.0	52.2
17	HT98-10291	56.6	56.4	55.9		54.1
18	HT98-10033	56.8	56.3	57.3		
19	XW672	56.3	55.7	56.9	53.0	57.6
20	XW674	57.5	56.3	56.0	50.2	58.1
21	BL940026	52.9	52.4	53.2	51.1	52.0
22	BL940812	58.1	57.4	57.7	53.4	57.3
23	APD95-7763	57.2	57.6	57.0	52.7	55.3
24	APD95*8811-1	56.6	55.2	58.6	56.2	54.8
25	APD95*8811-2	57.5	56.7	57.8	53.6	53.4
26	NC95-25305	55.6	56.3	56.2	53.9	55.9
27	NC95-25707	57.9	57.3	57.1	52.0	53.6
28	VA96-54-326	57.3	58.4	58.5	51.6	57.9
29	VA97W-375	57.0	57.3	57.4	47.4	
30	TX91-13	56.9	56.2	57.1	52.2	57.6
31	TX87-20	55.8	55.2	56.5		54.8
32	LA8513B1-7-B-1-4-2	57.2	56.6	56.9	52.0	51.3
33	LA90144B16-3-2	56.0	55.2	56.7	51.6	53.9
34	LA90412F14-1-4	58.7	57.3	58.6	55.5	58.4
35	LA9070G45-3-3-1	56.6	54.2	56.6	51.1	53.9
LOCATION MEANS		56.9	55.7	56.7	51.4	54.8

TEST WEIGHT (lbs/bu)

		Griffin GA	Plains GA	Nashville IL	Fulton Co. KY	Lexington KY
1	FL 302	58.1	53.3	58.3	55.8	56.1
2	Coker 9835	54.2	57.1	59.0	57.3	57.7
3	Coker 9663	59.1	56.7	59.7	60.0	59.5
4	Mason	58.4	56.3	59.3	55.0	56.0
5	AR 494B-2-2	56.7	56.0	60.3	59.1	57.4
6	GA89482E7	60.2	60.7	61.0	58.3	57.1
7	BL930390	55.2	53.6	59.3	57.9	56.3
8	SC921285	59.6	57.3	59.0	57.7	58.3
9	SC921299	59.0	57.6	57.3	57.7	58.3
10	FL8868	56.9	56.7	59.3	56.1	54.0
11	AR584A-3-1	59.4	57.6	59.3	58.0	57.4
12	NC94-7197	60.1	60.1	59.7	58.6	58.5
13	AP-D94-5282	58.0	55.0	60.0	58.9	56.5
14	GA90524E35	55.5	56.4	56.0	53.1	53.8
15	GA901146E15	58.4	55.0	59.0	60.4	57.2
16	S9412192	56.7	55.0	59.7	58.2	56.0
17	HT98-10291	58.2	42.0	60.0	56.3	55.5
18	HT98-10033	56.2	38.2	59.5	58.6	55.5
19	XW672	58.0	57.8	58.3	57.1	56.5
20	XW674	58.6	55.5	60.3	58.5	58.4
21	BL940026	56.1	55.5	57.0	52.6	55.7
22	BL940812	61.2	57.8	61.0	60.6	59.0
23	APD95-7763	58.6	54.3	59.5	57.1	57.0
24	APD95*8811-1	59.2	58.9	60.0	57.0	57.8
25	APD95*8811-2	59.1	58.6	60.0	57.5	57.1
26	NC95-25305	57.3	55.9	58.7	54.1	57.5
27	NC95-25707	59.2	55.3	61.0	60.3	58.6
28	VA96-54-326	59.8	57.4	59.3	59.7	60.6
29	VA97W-375	58.5	51.0	60.0	57.9	56.7
30	TX91-13	58.2	59.0	59.0	59.3	56.5
31	TX87-20	57.2	45.3	59.3	54.6	55.1
32	LA8513B1-7-B-1-4-2	58.7	55.9	59.0	59.4	54.2
33	LA90144B16-3-2	56.4	58.0	59.3	58.0	56.6
34	LA90412F14-1-4	59.9	59.9	61.5	58.5	59.8
35	LA9070G45-3-3-1	57.4	54.9	58.3	57.7	57.4
LOCATION MEANS		58.1	55.3	59.4	57.6	57.0

TEST WEIGHT (lbs/bu)

		BatonRouge LA	Queenstown MD	Portageville MO	Brooksville MS	Cleveland MS
1	FL 302	52.4	56.4	57.3	53	
2	Coker 9835	55.4	56.2	57.9	56	
3	Coker 9663	58.0	59.1	59.7	57	60.4
4	Mason	54.7	57.2	58.6	55	58.7
5	AR 494B-2-2	53.4	58.0	60.0	58	56.8
6	GA89482E7	56.8	58.1	60.2	57	58.9
7	BL930390		55.6	58.2	56	53.1
8	SC921285	57.7	58.5	59.6	57	54.5
9	SC921299	57.1	59.3	59.5	55	57.8
10	FL8868	53.9	55.4	56.0	53	
11	AR584A-3-1		56.5	58.8	57	58.9
12	NC94-7197	58.4	57.2	60.6	57	57.9
13	AP-D94-5282	53.1	58.1	59.4	55	58.3
14	GA90524E35	53.5	56.9	55.9	52	
15	GA901146E15	54.0	56.1	58.8	53	58.3
16	S9412192	53.0	56.7	58.1	53	57.4
17	HT98-10291		56.2	58.0	55	58.5
18	HT98-10033		56.8	58.1	55	53.4
19	XW672	54.4	56.0	57.0	55	57.2
20	XW674	55.0	58.2	59.6	55	56.3
21	BL940026	51.3	54.5	55.9	52	52.1
22	BL940812		58.9	60.7	55	56.4
23	APD95-7763	56.6	58.1	59.1	54	54.7
24	APD95*8811-1	56.2	58.0	58.8	54	
25	APD95*8811-2	59.3	56.6	59.3	55	
26	NC95-25305	54.2	56.8	58.9	54	56.6
27	NC95-25707	57.5	58.5	59.8	56	57.5
28	VA96-54-326	58.2	59.0	60.1	55	57.2
29	VA97W-375		55.8	59.8	54	58.1
30	TX91-13	57.4	56.5	58.7	54	55.9
31	TX87-20		57.3	57.9	55	58.6
32	LA8513B1-7-B-1-4-2	55.6	56.7	58.1	56	
33	LA90144B16-3-2	55.5	57.7	58.9	54	
34	LA90412F14-1-4	59.0	59.0	60.8	58	
35	LA9070G45-3-3-1	55.7	56.4	57.0	54	
LOCATION MEANS		55.6	57.2	58.7	55.0	56.9

TEST WEIGHT (lbs/bu)

		Kinston NC	Rowland NC	Wooster OH	Univ.Park PA	Clemson SC
1	FL 302	53.3	46.2	57.5	61.0	59
2	Coker 9835	53.0	50.8	57.1	61.6	56
3	Coker 9663	57.5	53.5	58.7	62.3	60
4	Mason	56.1	52.0	58.5	62.2	55
5	AR 494B-2-2	57.9	50.9	59.1	62.3	56
6	GA89482E7	57.5	53.8	58.3	61.8	58
7	BL930390	57.0	53.2	57.1	61.3	56
8	SC921285	61.0	54.2	58.5	62.7	55
9	SC921299	59.8	52.1	59.3	62.5	57
10	FL8868	53.0	51.4	54.6	59.0	57
11	AR584A-3-1	60.9	54.7	57.1	61.0	56
12	NC94-7197	62.1	52.7	59.4	63.1	59
13	AP-D94-5282	59.0	53.5	59.0	62.0	58
14	GA90524E35	53.3	52.8	54.4	59.2	53
15	GA901146E15	57.7	50.6	56.4	60.6	50
16	S9412192	46.5	49.0	57.3	61.3	52
17	HT98-10291	56.1	49.9	56.5	59.3	54
18	HT98-10033	53.6	50.0	58.3	61.6	56
19	XW672	57.4	52.9	58.3	61.5	52
20	XW674	59.9	53.8	59.4	62.7	58
21	BL940026	55.7	48.3	54.0	59.6	52
22	BL940812	61.5	56.8	60.2	63.0	60
23	APD95-7763	58.6	52.9	58.8	61.4	55
24	APD95*8811-1	56.1	54.8	58.8	61.8	56
25	APD95*8811-2	56.4	53.9	59.1	61.5	57
26	NC95-25305	57.2	50.5	59.5	61.2	53
27	NC95-25707	60.3	54.6	59.0	62.5	58
28	VA96-54-326	61.5	55.5	60.6	62.3	56
29	VA97W-375	60.7	51.7	59.0	61.5	57
30	TX91-13	60.2	51.8	57.3	61.1	59
31	TX87-20	58.3	53.5	58.2	60.8	58
32	LA8513B1-7-B-1-4-2	54.3	53.9	57.5	60.3	55
33	LA90144B16-3-2	53.8	52.3	57.3	63.1	55
34	LA90412F14-1-4	58.8	54.4	58.8	63.7	60
35	LA9070G45-3-3-1	56.6	49.3	55.9	60.4	53
LOCATION MEANS		57.2	52.3	58.0	61.5	56.0

TEST WEIGHT (lbs/bu)

		Florence SC	St.Matthews SC	Knoxville TN	Overton TX	Prosper TX
1	FL 302	57	51.0	55.4	48	53.3
2	Coker 9835	58	54.2	56.1	48	47.3
3	Coker 9663	61	55.5	58.0	50	57.0
4	Mason	56	52.5	59.3	48	54.5
5	AR 494B-2-2	56	52.9	59.3	47	54.3
6	GA89482E7	59	53.8	53.0	54	57.2
7	BL930390	60	55.0	58.4	54	53.2
8	SC921285	60	54.6	59.9	56	56.2
9	SC921299	59	55.3	58.7	54	56.1
10	FL8868	56	52.5	52.4	50	49.7
11	AR584A-3-1	60	55.0	54.2	58	54.2
12	NC94-7197	61	54.5	55.9	56	56.3
13	AP-D94-5282	59	53.8	57.3	54	54.1
14	GA90524E35	57	53.2	52.3	50	51.1
15	GA901146E15	57	48.5	53.5	51	52.3
16	S9412192	56	51.0	54.2	48	54.5
17	HT98-10291	54	52.5	56.5	49	54.4
18	HT98-10033	53	46.1	57.5	48	51.2
19	XW672	58	52.9	56.8	50	54.4
20	XW674	57	52.6	59.8	51	53.6
21	BL940026	54	50.6	51.2	48	51.2
22	BL940812	62	58.8	52.9	57	56.4
23	APD95-7763	55	49.3	53.8	53	55.0
24	APD95*8811-1	59	55.0	56.3	52	53.5
25	APD95*8811-2	61	56.2	53.5	52	54.0
26	NC95-25305	56	51.1	56.5	46	50.4
27	NC95-25707	60	54.0	58.5	54	54.4
28	VA96-54-326	59	51.7	58.4	53	55.3
29	VA97W-375	59	52.9	58.7	55	54.3
30	TX91-13	58	54.6	55.6	52	55.1
31	TX87-20	59	49.5	56.3	54	53.4
32	LA8513B1-7-B-1-4-2	59	55.8	55.9	52	54.4
33	LA90144B16-3-2	59	54.8	58.6	50	52.1
34	LA90412F14-1-4	63	58.6	61.2	55	53.1
35	LA9070G45-3-3-1	54	46.7	48.3	52	54.1
LOCATION MEANS		58.0	53.1	56.1	51.7	53.8

TEST WEIGHT (lbs/bu)

		Warsaw VA	ENTRY MEANS ALL LOCATIONS	rank
1	FL 302	58.2	54.9	29
2	Coker 9835	57.8	55.3	26
3	Coker 9663	59.4	58.0	4
4	Mason	58.4	56.0	22
5	AR 494B-2-2	60.6	56.4	17
6	GA89482E7	59.1	57.6	6
7	BL930390	60.1	55.7	24
8	SC921285	59.5	57.3	8
9	SC921299	58.6	57.1	9
10	FL8868	55.5	54.4	33
11	AR584A-3-1	58.5	57.1	10
12	NC94-7197	60.3	58.1	3
13	AP-D94-5282	58.8	56.7	15
14	GA90524E35	53.6	54.0	34
15	GA901146E15	55.5	55.1	28
16	S9412192	55.6	54.6	31
17	HT98-10291	58.3	55.1	27
18	HT98-10033	57.1	54.5	32
19	XW672	59.2	56.2	19
20	XW674	60.7	57.0	12
21	BL940026	54.4	53.2	35
22	BL940812	61.9	58.6	2
23	APD95-7763	58.6	56.2	18
24	APD95*8811-1	58.2	56.9	13
25	APD95*8811-2	59.4	57.0	11
26	NC95-25305	57.4	55.4	25
27	NC95-25707	59.2	57.5	7
28	VA96-54-326	60.2	57.8	5
29	VA97W-375	59.7	56.7	16
30	TX91-13	58.7	56.8	14
31	TX87-20	57.9	55.9	23
32	LA8513B1-7-B-1-4-2	57.9	56.1	20
33	LA90144B16-3-2	58.0	56.1	21
34	LA90412F14-1-4	60.7	58.9	1
35	LA9070G45-3-3-1	58.4	54.8	30
LOCATION MEANS		58.4		

KERNEL WEIGHT (grams)

		Bay AR	Brooksville MS
		100 kernels	100 kernels
1	FL 302	3.10	3.0
2	Coker 9835	3.05	3.1
3	Coker 9663	3.85	3.5
4	Mason	3.80	3.7
5	AR 494B-2-2	3.55	3.5
6	GA89482E7	3.35	3.5
7	BL930390	3.35	3.3
8	SC921285	2.60	2.6
9	SC921299	2.90	2.9
10	FL8868	3.05	3.1
11	AR584A-3-1	3.75	3.3
12	NC94-7197	3.20	2.8
13	AP-D94-5282	3.00	2.7
14	GA90524E35	2.65	3.0
15	GA901146E15	2.90	2.8
16	S9412192	2.95	3.5
17	HT98-10291	3.55	2.9
18	HT98-10033	3.75	2.8
19	XW672	3.65	3.8
20	XW674	3.35	3.0
21	BL940026	2.70	2.8
22	BL940812	3.25	3.3
23	APD95-7763	3.70	3.1
24	APD95*8811-1	3.60	3.6
25	APD95*8811-2	3.50	3.5
26	NC95-25305	3.40	2.6
27	NC95-25707	3.55	2.5
28	VA96-54-326	3.30	2.3
29	VA97W-375	3.15	2.3
30	TX91-13	3.25	2.4
31	TX87-20	3.10	2.6
32	LA8513B1-7-B-1-4-2	3.75	3.0
33	LA90144B16-3-2	3.50	2.8
34	LA90412F14-1-4	3.25	2.7
35	LA9070G45-3-3-1	3.40	2.6
LOCATION MEANS		3.31	3.0

HEADING DATE (Julian)

		BelleMina AL	Bay AR	Keiser AR	Marianna FL	Quincy FL
1	FL 302	113	110	111	96	94
2	Coker 9835	111	107	112	96	90
3	Coker 9663	109	105	111	96	88
4	Mason	109	101	106	96	89
5	AR 494B-2-2	112	107	114	97	92
6	GA89482E7	110	103	105	96	93
7	BL930390	114	113	115	NV	NV
8	SC921285	108	105	107	NV	111
9	SC921299	109	106	108	NV	109
10	FL8868	113	109	114	96	89
11	AR584A-3-1	114	107	112	NV	NV
12	NC94-7197	112	112	114	NV	99
13	AP-D94-5282	111	106	111	NV	110
14	GA90524E35	111	103	108	95	90
15	GA901146E15	105	104	109	96	90
16	S9412192	109	99	105	92	87
17	HT98-10291	119	114	118	NV	NV
18	HT98-10033	120	115	117	NV	NV
19	XW672	112	106	112	94	88
20	XW674	110	108	111	NV	101
21	BL940026	113	106	108	96	89
22	BL940812	112	112	114	NV	NV
23	APD95-7763	112	108	114	NV	102
24	APD95*8811-1	109	104	106	95	88
25	APD95*8811-2	113	110	113	98	95
26	NC95-25305	111	102	111	91	83
27	NC95-25707	113	110	116	NV	101
28	VA96-54-326	109	107	111	NV	98
29	VA97W-375	113	106	111	NV	NV
30	TX91-13	110	108	112	NV	103
31	TX87-20	117	112	111	NV	NV
32	LA8513B1-7-B-1-4-2	114	108	111	98	94
33	LA90144B16-3-2	110	105	111	96	88
34	LA90412F14-1-4	112	105	112	96	89
35	LA9070G45-3-3-1	110	105	109	97	90
LOCATION MEANS		111.7	107.1	111.1	95.6	94.3

NV=non-vernalized

HEADING DATE (Julian)

		Plains GA	Lafayette IN	Fulton Co. KY	Lexington KY	BatonRouge LA
1	FL 302	98	137	113	131	99
2	Coker 9835	95	135	118	129	88
3	Coker 9663	94	132	113	126	87
4	Mason	91	131	113	126	85
5	AR 494B-2-2	99	134	113	129	90
6	GA89482E7	91	134	112	125	88
7	BL930390		135	118	129	NV
8	SC921285	99	132	112	125	104
9	SC921299	99	137	116	125	105
10	FL8868	94	133	115	130	90
11	AR584A-3-1	104	133	115	127	NV
12	NC94-7197	100	134	117	128	96
13	AP-D94-5282	96	133	114	126	100
14	GA90524E35	94	135	113	126	87
15	GA901146E15	91	131	113	125	85
16	S9412192	91		112	128	81
17	HT98-10291		137	120	130	NV
18	HT98-10033		135	116	130	NV
19	XW672	98	133	113	126	87
20	XW674	98	133	113	125	96
21	BL940026	96	133	113	127	88
22	BL940812		135	114	128	NV
23	APD95-7763	99	134	115	128	98
24	APD95*8811-1	91	133	112	126	84
25	APD95*8811-2	99	138	115	131	93
26	NC95-25305	91	134	112	127	85
27	NC95-25707	104	136	116	129	94
28	VA96-54-326	98	132	113	125	94
29	VA97W-375		133	113	126	NV
30	TX91-13	96	134	114	127	96
31	TX87-20		135	116	130	NV
32	LA8513B1-7-B-1-4-2	97	134	114	130	93
33	LA90144B16-3-2	91	133	113	127	85
34	LA90412F14-1-4	95	135	113	127	89
35	LA9070G45-3-3-1	91	137	112	128	86
LOCATION MEANS		95.9	134.1	114.1	127.5	91.2

NV=non-vernalized

HEADING DATE (Julian)

		Queenstown MD	Portageville MO	Cleveland MS	Kinston NC	Wooster OH
1	FL 302	131	119.3	97.0	103	138.3
2	Coker 9835	129	116.0	90.9	98	136.3
3	Coker 9663	128	116.0	93.5	97	135.0
4	Mason	127	114.0	90.4	95	133.7
5	AR 494B-2-2	131	116.0	95.0	104	136.0
6	GA89482E7	128	114.3	91.4	97	135.3
7	BL930390	131	118.7	101.7	110	139.0
8	SC921285	128	115.0	94.3	103	135.3
9	SC921299	128	114.0	94.5	104	134.7
10	FL8868	132	120.0	95.0	107	140.7
11	AR584A-3-1	130	116.3	99.0	107	138.0
12	NC94-7197	131	116.7	97.3	106	137.7
13	AP-D94-5282	128	114.3	95.0	103	134.7
14	GA90524E35	128	114.7	89.3	100	134.3
15	GA901146E15	127	114.3	94.3	102	132.7
16	S9412192	128	114.3	87.8	106	137.0
17	HT98-10291	133	122.7	102.3	113	140.7
18	HT98-10033	133	123.7	104.0	110	139.3
19	XW672	128	115.3	93.5	103	135.0
20	XW674	128	115.7	96.1	102	135.7
21	BL940026	128	116.0	93.7	100	135.7
22	BL940812	130	117.0	99.7	106	138.3
23	APD95-7763	131	116.7	100.3	107	138.3
24	APD95*8811-1	128	114.3	93.2	101	135.0
25	APD95*8811-2	133	117.3	96.3	104	140.7
26	NC95-25305	130	114.0	90.9	100	136.3
27	NC95-25707	132	118.0	98.8	107	140.3
28	VA96-54-326	127	114.3	98.1	104	134.0
29	VA97W-375	128	114.7	98.3	106	137.0
30	TX91-13	129	115.3	100.3	108	138.3
31	TX87-20	131	119.3	98.8	107	138.0
32	LA8513B1-7-B-1-4-2	130	116.3	95.0	103	137.3
33	LA90144B16-3-2	128	115.3	89.4	100	134.3
34	LA90412F14-1-4	129	115.7	89.5	95	134.7
35	LA9070G45-3-3-1	128	115.3	92.0	102	138.3
LOCATION MEANS		129.4	116.3	95.3	103.4	136.7

HEADING DATE (Julian)

		Univ.Park PA	Clemson SC	Knoxville TN	Overton TX	Prosper TX
1	FL 302	143	101	120	82	97
2	Coker 9835	142	102	117	78	87
3	Coker 9663	142	101	118	82	89
4	Mason	139	101	113	76	86
5	AR 494B-2-2	141	102	116	85	96
6	GA89482E7	141	101	114	75	86
7	BL930390	142	107	119	101	98
8	SC921285	140	102	114	98	90
9	SC921299	140	101	115	98	92
10	FL8868	145	103	120	79	91
11	AR584A-3-1	144	105	119	98	98
12	NC94-7197	143	104	118	96	96
13	AP-D94-5282	141	102	115	98	91
14	GA90524E35	142	101	116	77	84
15	GA901146E15	138	101	114	82	90
16	S9412192	141	101	116	76	84
17	HT98-10291	145	108	122	110	104
18	HT98-10033	145	109	123	76	104
19	XW672	142	101	116	82	92
20	XW674	141	102	115	93	93
21	BL940026	143	102	115	79	90
22	BL940812	144	106	118	102	98
23	APD95-7763	145	104	118	103	98
24	APD95*8811-1	144	102	115	76	83
25	APD95*8811-2	145	103	120	82	93
26	NC95-25305	144	102	114	75	87
27	NC95-25707	145	107	119	93	99
28	VA96-54-326	141	102	114	92	93
29	VA97W-375	144	102	115	103	98
30	TX91-13	143	103	116	93	98
31	TX87-20	142	106	119	102	99
32	LA8513B1-7-B-1-4-2	143	103	119	82	96
33	LA90144B16-3-2	141	101	120	78	87
34	LA90412F14-1-4	144	102	116	76	86
35	LA9070G45-3-3-1	144	101	117	79	92
LOCATION MEANS		142.5	102.9	117.0	87.3	92.7

HEADING DATE (Julian)

		Warsaw VA	ENTRY MEANS ALL LOCATIONS	
				rank
1	FL 302	121	112.1	21
2	Coker 9835	117	109.2	14
3	Coker 9663	117	108.5	10
4	Mason	115	106.5	2
5	AR 494B-2-2	117	110.8	15
6	GA89482E7	116	107.4	5
7	BL930390	122	118.4	33
8	SC921285	118	112.0	20
9	SC921299	117	112.6	24
10	FL8868	122	111.3	18
11	AR584A-3-1	119	115.9	30
12	NC94-7197	122	114.0	26
13	AP-D94-5282	117	112.3	22
14	GA90524E35	116	107.8	7
15	GA901146E15	113	107.5	6
16	S9412192	115	105.5	1
17	HT98-10291	127	121.5	35
18	HT98-10033	127	119.2	34
19	XW672	114	109.1	13
20	XW674	114	111.5	19
21	BL940026	115	108.9	11
22	BL940812	119	117.2	31
23	APD95-7763	119	114.5	27
24	APD95*8811-1	115	107.4	4
25	APD95*8811-2	120	112.3	23
26	NC95-25305	114	107.3	3
27	NC95-25707	120	114.9	28
28	VA96-54-326	114	111.0	16
29	VA97W-375	118	115.6	29
30	TX91-13	119	113.1	25
31	TX87-20	123	118.0	32
32	LA8513B1-7-B-1-4-2	120	111.3	17
33	LA90144B16-3-2	113	107.9	8
34	LA90412F14-1-4	115	108.4	9
35	LA9070G45-3-3-1	115	109.0	12
LOCATION MEANS		117.9		

HEIGHT (inches)

		BelleMina AL	Keiser AR	Marianna FL	Quincy FL	Griffin GA
1	FL 302	39	32	34	35	34
2	Coker 9835	29	29	29	34	30
3	Coker 9663	37	31	40	41	36
4	Mason	35	31	35	38	32
5	AR 494B-2-2	36	31	36	39	34
6	GA89482E7	38	29	36	36	34
7	BL930390	33	29	27	27	32
8	SC921285	32	29	28	25	32
9	SC921299	32	30	28	27	32
10	FL8868	38	28	40	40	37
11	AR584A-3-1	37	31	30	26	34
12	NC94-7197	35	31	37	34	36
13	AP-D94-5282	35	28	29	26	32
14	GA90524E35	30	23	31	34	29
15	GA901146E15	30	28	32	34	32
16	S9412192	34	27	35	35	30
17	HT98-10291	41	38	30	27	35
18	HT98-10033	38	34	30	26	34
19	XW672	35	29	36	38	33
20	XW674	34	30	35	32	35
21	BL940026	33	31	35	36	31
22	BL940812	31	28	25	24	31
23	APD95-7763	35	33	34	31	30
24	APD95*8811-1	34	32	36	35	33
25	APD95*8811-2	37	32	34	32	35
26	NC95-25305	32	28	30	35	32
27	NC95-25707	31	34	31	31	32
28	VA96-54-326	32	32	33	34	34
29	VA97W-375	32	28	27	25	32
30	TX91-13	34	28	31	30	34
31	TX87-20	36	30	30	25	29
32	LA8513B1-7-B-1-4-2	35	34	35	35	34
33	LA90144B16-3-2	31	30	31	34	30
34	LA90412F14-1-4	30	26	32	35	29
35	LA9070G45-3-3-1	33	28	35	35	35
LOCATION MEANS		34.1	30.1	32.5	32.3	32.7

HEIGHT (inches)

		Plains GA	Nashville IL	Fulton Co. KY	Queenstown MD	Portageville MO
1	FL 302	34	40	35	41.2	36
2	Coker 9835	33	36	36	38.3	31
3	Coker 9663	33	38	36	45.8	35
4	Mason	36	39	33	41.5	32
5	AR 494B-2-2	37	42	38	45.5	36
6	GA89482E7	36	38	35	40.3	33
7	BL930390	22	38	34	40.8	36
8	SC921285	28	33	29	38.0	30
9	SC921299	26	39	36	39.0	30
10	FL8868	40	34	37	45.5	34
11	AR584A-3-1	31	40	38	44.0	36
12	NC94-7197	35	41	37	41.2	34
13	AP-D94-5282	26	39	32	38.8	35
14	GA90524E35	35	30	28	36.0	29
15	GA901146E15	32	33	29	36.7	31
16	S9412192	34		34	41.7	31
17	HT98-10291	23	45	38	44.2	36
18	HT98-10033	29	44	35	43.3	37
19	XW672	36	38	35	42.5	35
20	XW674	34	39	33	40.3	34
21	BL940026	35	38	34	40.5	30
22	BL940812	27	34	33	37.2	30
23	APD95-7763	32	42	37	42.5	35
24	APD95*8811-1		35	33	42.2	30
25	APD95*8811-2	31	39	37	43.7	36
26	NC95-25305	33	34	29	37.5	30
27	NC95-25707	28	37	32	39.2	33
28	VA96-54-326	34	38	34	40.3	31
29	VA97W-375	25	37	30	37.0	32
30	TX91-13	32	40	37	42.3	37
31	TX87-20	28	38	35	39.0	32
32	LA8513B1-7-B-1-4-2	33	38	35	41.0	31
33	LA90144B16-3-2	34	34	29	38.3	28
34	LA90412F14-1-4	35	35	31	38.0	30
35	LA9070G45-3-3-1	35	33	34	39.8	33
LOCATION MEANS		31.8	37.6	33.9	40.7	32.8

HEIGHT (inches)

		Brooksville MS	Kinston NC	Rowland NC	Clemson SC	Florence SC
1	FL 302	33	36	38.0	38	32
2	Coker 9835	30	32	33.0	33	29
3	Coker 9663	28	37	38.0	39	35
4	Mason	33	36	36.5	37	34
5	AR 494B-2-2	38	40	39.5	39	30
6	GA89482E7	38	35	35.5	36	32
7	BL930390	31	38	35.5	36	27
8	SC921285	31	35	34.5	35	27
9	SC921299	34	36	34.0	34	26
10	FL8868	38	35	41.0	37	31
11	AR584A-3-1	36	41	37.0	38	30
12	NC94-7197	40	38	38.5	36	30
13	AP-D94-5282	38	38	35.0	36	30
14	GA90524E35	33	31	31.0	32	28
15	GA901146E15	34	38	34.0	35	28
16	S9412192	37	29	35.0	35	31
17	HT98-10291	38	43	37.0	41	31
18	HT98-10033	37	42	40.0	39	31
19	XW672	33	38	35.5	37	31
20	XW674	32	40	36.5	36	32
21	BL940026	32	36	36.5	36	34
22	BL940812	29	35	32.0	34	27
23	APD95-7763	32	40	39.0	40	33
24	APD95*8811-1	29	36	36.5	36	30
25	APD95*8811-2	31	38	38.0	39	33
26	NC95-25305	27	29	33.5	34	27
27	NC95-25707	29	38	34.0	34	28
28	VA96-54-326	30	39	36.5	37	29
29	VA97W-375	32	38	34.0	35	26
30	TX91-13	34	38	37.5	38	30
31	TX87-20	38	38	35.5	34	28
32	LA8513B1-7-B-1-4-2	34	36	37.5	37	31
33	LA90144B16-3-2	30	32	32.0	34	30
34	LA90412F14-1-4	28	33	33.0	32	31
35	LA9070G45-3-3-1	32	36	35.0	35	31
LOCATION MEANS		33.1	36.6	35.9	36.1	30.1

HEIGHT (inches)

		Overton TX	Warsaw VA	ENTRY MEANS ALL LOCATIONS	
					rank
1	FL 302	32	36	35.6	7
2	Coker 9835	28	33	32.0	27
3	Coker 9663	27	37	36.1	4
4	Mason	27	38	34.9	12
5	AR 494B-2-2	28	41	37.1	1
6	GA89482E7	26	36	34.9	13
7	BL930390	28	38	32.5	25
8	SC921285	29	32	31.0	33
9	SC921299	27	32	31.9	28
10	FL8868	30	36	36.6	2
11	AR584A-3-1	32	39	35.3	10
12	NC94-7197	31	36	35.9	5
13	AP-D94-5282	30	35	33.1	21
14	GA90524E35	20	33	30.2	35
15	GA901146E15	26	33	32.1	26
16	S9412192	22	36	32.9	23
17	HT98-10291	32	37	36.2	3
18	HT98-10033	27	35	35.4	9
19	XW672	28	36	35.1	11
20	XW674	32	38	34.9	15
21	BL940026	30	35	34.3	17
22	BL940812	29	34	30.6	34
23	APD95-7763	31	38	35.6	8
24	APD95*8811-1	29	37	34.0	19
25	APD95*8811-2	31	39	35.6	6
26	NC95-25305	23	35	31.1	32
27	NC95-25707	30	35	32.7	24
28	VA96-54-326	29	36	34.0	18
29	VA97W-375	32	34	31.5	29
30	TX91-13	29	37	34.6	16
31	TX87-20	31	35	33.0	22
32	LA8513B1-7-B-1-4-2	31	36	34.9	14
33	LA90144B16-3-2	23	34	31.4	30
34	LA90412F14-1-4	20	34	31.3	31
35	LA9070G45-3-3-1	26	35	33.6	20
LOCATION MEANS		28.2	35.7		

LODGING

		BelleMina AL	Marianna FL	Quincy FL	Griffin GA	Plains GA
		0-9	0-9	0-9	0-9	0-9
1	FL 302	0	3	2	1	1
2	Coker 9835	0	1	1	1	0
3	Coker 9663	0	4	3	2	1
4	Mason	0	1	2	2	1
5	AR 494B-2-2	0	3	3	2	1
6	GA89482E7	0	1	3	1	0
7	BL930390	0	0	0	0	0
8	SC921285	0	1	0	1	0
9	SC921299	0	1	1	1	0
10	FL8868	0	3	3	1	2
11	AR584A-3-1	0	0	0	1	0
12	NC94-7197	0	1	1	0	0
13	AP-D94-5282	0	1	0	1	0
14	GA90524E35	0	1	2	1	1
15	GA901146E15	0	2	2	1	0
16	S9412192	0	3	2	1	4
17	HT98-10291	0	0	0	0	0
18	HT98-10033	0	0	0	0	0
19	XW672	0	2	2	1	0
20	XW674	0	1	0	1	1
21	BL940026	0	1	1	1	0
22	BL940812	0	0	0	0	0
23	APD95-7763	0	1	1	1	0
24	APD95*8811-1	0	2	4	1	0
25	APD95*8811-2	0	1	3	1	0
26	NC95-25305	0	1	2	0	0
27	NC95-25707	0	1	1	1	0
28	VA96-54-326	0	1	1	1	0
29	VA97W-375	0	0	0	1	0
30	TX91-13	0	1	1	1	0
31	TX87-20	0	0	0	0	0
32	LA8513B1-7-B-1-4-2	0	1	1	1	0
33	LA90144B16-3-2	0	1	1	1	0
34	LA90412F14-1-4	0	2	1	1	0
35	LA9070G45-3-3-1	0	2	2	1	0
	LOCATION MEANS	0.0	1.3	1.3	0.9	0.3
	GROWTH STAGE/DATE					

LODGING

		Nashville IL	Fulton Co. KY	Lexington KY	BatonRouge LA	Queenstown MD
		0-9	%	%	0-9	0-9
1	FL 302	2	0	0	6.0	0.3
2	Coker 9835	6	0	0	5.0	1.7
3	Coker 9663	2	0	0	5.5	1.7
4	Mason	2	0	0	3.5	0.0
5	AR 494B-2-2	2	0	0	6.0	2.7
6	GA89482E7	2	0	0	6.0	0.0
7	BL930390	2	0	0		5.3
8	SC921285	2	0	0	1.5	1.3
9	SC921299	2	0	0	1.0	1.0
10	FL8868	2	0	0	5.5	1.7
11	AR584A-3-1	8	0	0		2.3
12	NC94-7197	2	0	0	4.5	3.0
13	AP-D94-5282	2	0	0	2.0	2.3
14	GA90524E35	2	0	0	6.0	0.7
15	GA901146E15	2	0	0	4.5	1.3
16	S9412192	2	0	0	3.5	0.0
17	HT98-10291	2	0	0		1.7
18	HT98-10033	2	0	0		3.7
19	XW672	2	0	0	6.5	2.0
20	XW674	2	0	0	2.0	1.7
21	BL940026	2	0	0	4.5	2.3
22	BL940812	2	0	0		0.7
23	APD95-7763	2	0	0	2.0	1.3
24	APD95*8811-1	2	0	0	5.5	1.3
25	APD95*8811-2	2	0	0	5.5	0.7
26	NC95-25305	2	0	0	6.5	0.7
27	NC95-25707	2	0	0	2.0	4.3
28	VA96-54-326	2	0	0	2.5	0.7
29	VA97W-375	5	0	0		4.0
30	TX91-13	2	0	0	3.0	1.7
31	TX87-20	2	0	0		2.3
32	LA8513B1-7-B-1-4-2	2	0	0	5.5	2.7
33	LA90144B16-3-2	2	0	0	5.0	0.0
34	LA90412F14-1-4	2	0	0	6.0	1.7
35	LA9070G45-3-3-1	2	0	0	5.5	0.0
	LOCATION MEANS	2.4	0.0	0.0	4.4	1.7
	GROWTH STAGE/DATE				April 19	

see location notes

LODGING

		Brooksville MS 0-9	Cleveland MS early 1-9	Cleveland MS late 1-9	Wooster OH early %	Wooster OH late %
1	FL 302	0	1.0	4.3	0.0	3.3
2	Coker 9835	0	1.0	6.7	1.3	33.3
3	Coker 9663	0	2.7	8.1	2.7	11.7
4	Mason	0	1.0	2.4	0.7	6.7
5	AR 494B-2-2	0	1.0	8.0	8.3	43.3
6	GA89482E7	0	1.0	8.0	0.0	8.3
7	BL930390	0	1.0	2.3	0.0	36.7
8	SC921285	0	1.0	3.2	5.7	60.0
9	SC921299	0	1.0	3.7	1.3	75.0
10	FL8868	0	3.2	7.9	34.3	46.7
11	AR584A-3-1	0	4.2	5.0	24.0	63.3
12	NC94-7197	0	2.8	5.3	0.7	8.3
13	AP-D94-5282	0	1.0	5.8	1.3	33.3
14	GA90524E35	0	1.0	8.0	10.0	56.7
15	GA901146E15	0	1.0	4.0	0.0	8.3
16	S9412192	0	1.0	2.4	0.7	0.0
17	HT98-10291	0	1.0	2.0	0.0	3.3
18	HT98-10033	0	7.2	5.4	5.7	50.0
19	XW672	0	1.0	7.6	0.0	5.0
20	XW674	0	1.0	7.0	1.7	35.0
21	BL940026	0	1.0	6.8	3.0	40.0
22	BL940812	0	3.0	1.0	0.0	1.7
23	APD95-7763	0	5.6	5.1	7.3	33.3
24	APD95*8811-1	0	1.0	8.5	3.3	6.7
25	APD95*8811-2	0	1.0	6.7	4.7	16.7
26	NC95-25305	3	1.0	2.2	0.0	3.3
27	NC95-25707	5	2.5	4.4	4.0	63.3
28	VA96-54-326	0	2.9	3.1	2.3	11.7
29	VA97W-375	0	2.1	3.8	0.0	5.0
30	TX91-13	0	3.3	7.6	0.7	31.7
31	TX87-20	0	3.3	5.8	0.0	6.7
32	LA8513B1-7-B-1-4-2	0	1.0	8.3	6.7	30.0
33	LA90144B16-3-2	0	1.0	6.2	0.0	3.3
34	LA90412F14-1-4	0	1.0	7.3	1.7	45.0
35	LA9070G45-3-3-1	0	1.3	6.2	0.0	0.0
	LOCATION MEANS	0.2	1.9	5.4	3.8	25.3
	GROWTH STAGE/DATE		March 12	April 28	June 11	July 7

LODGING

		Overton TX	Warsaw VA
		%	0-9
1	FL 302	80	0
2	Coker 9835	20	1
3	Coker 9663	20	0
4	Mason	20	1
5	AR 494B-2-2	20	0
6	GA89482E7	0	0
7	BL930390	0	2
8	SC921285	0	1
9	SC921299	0	1
10	FL8868	0	0
11	AR584A-3-1	0	1
12	NC94-7197	0	1
13	AP-D94-5282	0	1
14	GA90524E35	0	3
15	GA901146E15	15	0
16	S9412192	0	0
17	HT98-10291	0	0
18	HT98-10033	20	1
19	XW672	0	0
20	XW674	0	0
21	BL940026	0	2
22	BL940812	0	0
23	APD95-7763	5	2
24	APD95*8811-1	0	1
25	APD95*8811-2	0	0
26	NC95-25305	5	0
27	NC95-25707	5	2
28	VA96-54-326	0	1
29	VA97W-375	0	0
30	TX91-13	10	0
31	TX87-20	0	0
32	LA8513B1-7-B-1-4-2	60	1
33	LA90144B16-3-2	10	0
34	LA90412F14-1-4	0	1
35	LA9070G45-3-3-1	5	1
LOCATION MEANS		8.4	0.7
GROWTH STAGE/DATE			

WINTERKILL / SURVIVAL

		BelleMina AL winterkill 0-9	Fulton Co. KY survival %	Lexington KY survival %	Portageville MO survival %	Warsaw VA winterkill 0-9
1	FL 302	0	100	100	68	4
2	Coker 9835	0	100	100	66	5
3	Coker 9663	0	100	100	50	4
4	Mason	0	100	100	61	6
5	AR 494B-2-2	0	100	100	74	3
6	GA89482E7	0	100	100	74	3
7	BL930390	0	100	100	78	1
8	SC921285	0	100	100	51	4
9	SC921299	0	100	100	56	4
10	FL8868	0	100	100	52	5
11	AR584A-3-1	0	100	100	75	3
12	NC94-7197	0	100	100	52	3
13	AP-D94-5282	0	100	100	73	1
14	GA90524E35	0	100	100	67	6
15	GA901146E15	0	100	100	61	4
16	S9412192	0	100	100	64	7
17	HT98-10291	0	100	100	64	1
18	HT98-10033	0	100	100	66	2
19	XW672	0	100	100	66	2
20	XW674	0	100	100	65	2
21	BL940026	0	100	100	71	3
22	BL940812	0	100	100	65	2
23	APD95-7763	0	100	100	80	4
24	APD95*8811-1	0	100	100	66	4
25	APD95*8811-2	0	100	100	70	4
26	NC95-25305	0	100	100	64	6
27	NC95-25707	0	100	100	79	3
28	VA96-54-326	0	100	100	65	6
29	VA97W-375	0	100	100	74	1
30	TX91-13	0	100	100	84	5
31	TX87-20	0	100	100	69	1
32	LA8513B1-7-B-1-4-2	0	100	100	71	4
33	LA90144B16-3-2	0	100	100	60	4
34	LA90412F14-1-4	0	100	100	57	5
35	LA9070G45-3-3-1	0	100	100	58	3
	LOCATION MEANS	0	100	100	66.2	3.6
	GROWTH STAGE/DATE					

LEAF RUST

		BelleMina AL	Bay AR	Keiser AR	Rohwer AR	Kibler AR
		0-10	1-9	%	%	%
1	FL 302	1.0	5.0	30	50	60
2	Coker 9835	0.5	1.8	5	0	1
3	Coker 9663	0.0	1.0	0	0	1
4	Mason	0.0	1.3	5	0	4
5	AR 494B-2-2	1.0	3.8	23	40	.
6	GA89482E7	0.5	2.0	15	7	13
7	BL930390	0.0	1.0	8	2	1
8	SC921285	0.5	2.3	0	16	16
9	SC921299	0.0	2.0	0	11	15
10	FL8868	0.0	1.0	0	0	2
11	AR584A-3-1	0.0	1.3	0	0	0
12	NC94-7197	0.5	2.0	2	2	1
13	AP-D94-5282	0.0	2.0	1	2	1
14	GA90524E35	0.0	1.0	0	.	1
15	GA901146E15	0.5	3.0	23	11	12
16	S9412192	0.0	3.0	30	40	36
17	HT98-10291	0.5	1.8	2	5	29
18	HT98-10033	0.5	3.0	7	11	36
19	XW672	0.5	3.0	7	7	21
20	XW674	1.0	2.3	11	5	5
21	BL940026	0.0	1.0	0	0	1
22	BL940812	0.0	2.3	0	0	4
23	APD95-7763	0.0	1.0	0	0	1
24	APD95*8811-1	0.3	1.0	0	0	0
25	APD95*8811-2	0.0	1.0	1	0	0
26	NC95-25305	0.5	2.0	4	15	1
27	NC95-25707	0.0	1.0	0	0	7
28	VA96-54-326	1.0	2.8	7	5	7
29	VA97W-375	0.5	1.0	1	0	1
30	TX91-13	0.0	1.0	1	0	1
31	TX87-20	0.5	1.3	0	5	9
32	LA8513B1-7-B-1-4-2	0.5	1.0	0	0	5
33	LA90144B16-3-2	0.5	1.3	0	0	0
34	LA90412F14-1-4	0.0	1.0	0	0	0
35	LA9070G45-3-3-1	0.0	1.0	4	1	0
LOCATION MEANS		0.3	1.8	5.3	6.9	8.6
GROWTH STAGE/DATE				mean 2 ratings	mean 2 ratings	mean 4 ratings

LEAF RUST

		Marianna FL	Quincy FL	Griffin GA	Plains GA	Lexington KY
		0-9	0-9	%		%flag
1	FL 302	4	2.3	100	9	4
2	Coker 9835	1	2.3	100	7	2
3	Coker 9663	0	0.0	10	0	2
4	Mason	0	0.0		0	2
5	AR 494B-2-2	2	3.0	30	5	2
6	GA89482E7	1	0.3	0	1	2
7	BL930390	0	0.3	10	0	2
8	SC921285	2	1.0	5	0	2
9	SC921299	3	1.3	0	3	1
10	FL8868	0	0.3	20	3	2
11	AR584A-3-1	0	0.7	0	0	2
12	NC94-7197	0	0.7	0	1	2
13	AP-D94-5282	0	1.0	0	5	2
14	GA90524E35	0	0.7	0	1	2
15	GA901146E15	1	1.7	20	5	2
16	S9412192	1	0.7	0	8	2
17	HT98-10291	0	1.7	0	9	2
18	HT98-10033	1	1.7	20	7	2
19	XW672	2	2.0	10	5	2
20	XW674	1	2.0	30	7	2
21	BL940026	0	0.3	10	2	2
22	BL940812	0	0.3	10	0	2
23	APD95-7763	0	0.0	0	3	2
24	APD95*8811-1	0	0.3	0	4	2
25	APD95*8811-2	0	0.0	0	4	2
26	NC95-25305	0	0.0	0	0	1
27	NC95-25707	0	0.3	20	8	2
28	VA96-54-326	1	2.7	40	5	2
29	VA97W-375	0	0.0	0	2	2
30	TX91-13	0	0.0	0	3	2
31	TX87-20	0	0.0	40	4	2
32	LA8513B1-7-B-1-4-2	1	0.0	0	6	2
33	LA90144B16-3-2	2	2.7	100	5	4
34	LA90412F14-1-4	0	0.7		6	2
35	LA9070G45-3-3-1	0	1.3	70	0	2
	LOCATION MEANS	0.7	0.9	19.5	3.7	2.1
	GROWTH STAGE/DATE	April 14	April 19			

LEAF RUST

		BatonRouge LA	Kinston NC	Rowland NC	Wooster OH	Beeville TX
		%			0-9	IT
1	FL 302	70	7.5	6.5	8.3	S
2	Coker 9835	0	7.5	5.0	0.0	R
3	Coker 9663	0	3.5	2.0	0.0	R
4	Mason	0	1.5	2.0	0.0	R
5	AR 494B-2-2	30	6.5	5.0	2.0	S
6	GA89482E7	3	0.5	1.5	1.7	S-MS
7	BL930390	0	1.5	1.5	0.0	R
8	SC921285	10	1.0	1.0	0.0	S
9	SC921299	5	2.5	1.5	1.7	S
10	FL8868	0	5.0	2.0	0.0	R
11	AR584A-3-1	0	0.5	3.0	0.0	R
12	NC94-7197	2	1.5	3.5	0.0	R-MR
13	AP-D94-5282	0	2.5	3.0	0.0	MR-MS
14	GA90524E35	0	2.0	1.0	0.0	R
15	GA901146E15	10	4.0	5.5	0.0	MS-MR
16	S9412192	13	1.5	4.0	3.3	R
17	HT98-10291	65	1.0	1.5	0.0	S
18	HT98-10033	18	6.0	2.5	0.0	S
19	XW672	9	5.0	4.0	3.7	MS-MR
20	XW674	9	3.5	4.0	0.3	S-MS
21	BL940026	0	3.0	2.0	0.0	R
22	BL940812	0	2.0	2.0	1.7	MR-MS
23	APD95-7763	0	0.5	1.0	0.0	R
24	APD95*8811-1	0	1.0	1.0	0.0	R
25	APD95*8811-2	0	1.5	1.0	0.0	R
26	NC95-25305	10	2.0	2.0	0.0	R
27	NC95-25707	0	2.0	1.0	0.0	R
28	VA96-54-326	4	4.0	4.5	0.0	S
29	VA97W-375	0	0.5	1.0	0.0	MR-MS
30	TX91-13	0	0.5	1.0	0.0	S
31	TX87-20	4	1.0	2.0	0.0	MS-MR
32	LA8513B1-7-B-1-4-2	0	1.5	1.0	0.0	R
33	LA90144B16-3-2	0	8.5	6.0	0.0	R
34	LA90412F14-1-4	0	5.5	5.0	0.0	R
35	LA9070G45-3-3-1	0	2.0	2.0	0.7	R
LOCATION MEANS		7.5	2.9	2.6	0.7	
GROWTH STAGE/DATE					June 11	

LEAF RUST

		Overton TX	Prosper TX	Prosper TX
		0-9	%	IT
1	FL 302	4	26.7	MS
2	Coker 9835	0	0.0	
3	Coker 9663	0	0.0	
4	Mason	0	0.0	
5	AR 494B-2-2	3	20.0	MS-S
6	GA89482E7	1	10.3	MR
7	BL930390	1	0.0	
8	SC921285	1	20.0	MR-MS
9	SC921299	2	1.0	MR
10	FL8868	0	0.0	
11	AR584A-3-1	0	0.0	
12	NC94-7197	0	0.0	
13	AP-D94-5282	0	10.0	MS-MR
14	GA90524E35	0	0.0	
15	GA901146E15	1	20.0	MS-MR
16	S9412192	0	5.7	MR
17	HT98-10291	5	100.0	S
18	HT98-10033	0	100.0	S
19	XW672	0	1.0	R-MR
20	XW674	0	0.0	F
21	BL940026	0	0.0	
22	BL940812	0	0.0	
23	APD95-7763	0	0.0	F
24	APD95*8811-1	0	0.0	
25	APD95*8811-2	0	0.0	
26	NC95-25305	6	20.0	S
27	NC95-25707	2	0.0	
28	VA96-54-326	0	0.0	F
29	VA97W-375	0	0.0	F
30	TX91-13	0	0.0	
31	TX87-20	0	1.0	R-MR
32	LA8513B1-7-B-1-4-2	5	0.0	
33	LA90144B16-3-2	0	0.0	
34	LA90412F14-1-4	0	0.0	
35	LA9070G45-3-3-1	0	0.0	
LOCATION MEANS		0.9	9.6	
GROWTH STAGE/DATE				

LEAF RUST

Seedling reactions produced by NA race*

No.	Cultivar or Line	BBBB*	MCRQ	MCDL	LBBQ	TFBL	TLGG	PNMQ	TDGL	FLML	Postulated Genes***
1	FL 302	;	3	3	3	3	;	3	3	3	10
2	Coker 9835	;	;	;	;	;	3	;	;	;	2a,9,11
3	Coker 9663	;	;	;	;	;	;	3	;-3	;	9,10,+
4	Mason	;	;	;	;	;	3;	3-;	;	;	9, +
5	AR 494B-2-2	;	3	3	3	3	3	3	3	;	1,+
6	GA89482E7	;	3	3	;	3	;	;	;	;	10,26,+
7	BL930390	;	;	;	;	;	3	;	;	;	2a,9,11
8	SC921285	3;	;3c	3	3;	3;	;1c	3	3	3	10,+
9	SC921299	3;	3;1c	3	;1c2	3	j1c2	3	3	3	3,10,+
10	FL8868	;	;	;	;	;	3	3	;	3	9,+
11	AR584A-3-1	;	;	;	;	;	;	3	;	;23	9,10,18,+
12	NC94-7197	;	3	;1c	;1c	;	;	;	;	;1c	11,26,+
13	AP-D94-5282	;	;	;1c	;	;	;	;	;-3	;	+
14	GA90524E35	;	;	;	;	;	;	;	;	;	+
15	GA901146E15	;	3	2c;	3	;1c	3	;	;1c	;1c	18,+
16	S9412192	;	3	3	;1c	3	;	;	3;	;	10,26,+
17	HT98-10291	;	;	;	;	;	;	;	;	;	+
18	HT98-10033	;-3	3	3	3	3	3	3-;	3	;	+
19	XW672	;1c	3;	;1c	;1c	;1c	3	;1c	3	;	11,+
20	XW674	;1c	3	;3	3	;	3	;	;	;	18,+
21	BL940026	;	;	;	;	;	3	;	;	;	2a,9,11
22	BL940812	;	;	;	;	3-1c;	3	;	;	;	2a,9,11
23	APD95-7763	;	;	;	;	;	;	3	;	;	9,24
24	APD95*8811-1	;	;	;	;	;	;1c	;	;	;	+
25	APD95*8811-2	;	;	;	;	;	;	;	;	;	+
26	NC95-25305	;	3;	;1c-3	3;	;1c3	3-;	;-3	;	;1c	+
27	NC95-25707	;	;	;	;	;	;	;	;	3;	+
28	VA96-54-326	;	3	3	3	;-3	3;	-	3	3	10,+
29	VA97W-375	;	3	;1c	;	;	;	;	;	;	11,26,+
30	TX91-13	;	;	;	;	3	;	;	;	;	2a,26,+
31	TX87-20	;	3	3;	3-3;	3;-3	;3	;1c	;	;	26,+
32	LA8513B1-7-B-1-4-2	;	;	;	;	;	;	;	;	;	+
33	LA90144B16-3-2	;	;	;	;	;	3	;	;	;	2a,9,11
34	LA90412F14-1-4	;	;	;	;	;	3	;	;	;	2a,9,11
35	LA9070G45-3-3-1	;	;	;	;	;	;	;	;	;	+

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

**Virulence Formula:

BBBB = no virulence
MCRQ = Lr, 1, 3, 3ka, 10, 11, 18, 26, 30
MCDL = Lr, 1, 3, 10, 17, 26
LBBQ = Lr, 1, 10, 18
TFBL = Lr, 1, 2a, 2c, 3,10, 24, 26
TLGG = Lr, 1, 2a, 2c, 3, 9, 11, 18
PNMQ = Lr, 1, 2c, 3, 3ka, 9, 10, 18, 24
TDGL = Lr, 1, 2a, 2c, 3, 10, 11, 24
FLML = Lr, 2c, 3, 3ka, 9, 10, 30

***0 = no gene(s) detected with these Lr combinations; += Lr gene(s) present but unable to identify with these Lr virulence combinations

STEM RUST

Seedling Reactions

		Stem Rust Isolate						
		TPMK	RTRQ	RTQQ	RTHJ	RHMS	QKCS	Postulated SR Gene?
1	FL 302	S	XN	;	S	S	S	10
2	COKER 9835	S	S	;	;	S	;1	17,36
3	COKER 9663	S	;1	;	S	S	0	10,+
4	MASON	2	XN	2=	2=	2=	2=	10,24
5	AR 494B2-2	S	S	S	S	S	S	none
6	GA894982E7	2=	1	2=1	;1	2=1	2=	24
7	BL930390	S	S	S	S	S	S	none
8	SC921285	S	S	S	;1	S	S	+
9	SC921299	S	S	S	;	S	;1	36
10	FL 8868	S	S	;	2=1	S	;	17,+
11	AR584A-3-1	S	S	X	S	S	S	17?
12	NC94-7197	;1	1	;	;1	2=	0	,8,10,+
13	AP-D94-5282	2=	1	;	1	2=	O,2=	10,24
14	GA90524E35	S	S	;	1	S	1	17,+
15	GA901146E15	2-,S	1	2	2=	2-,S	S	+
16	S9412192	2=	;	;	2=	1	2=	10,24
17	HT98-10291**	0	0	0	0	0	0	-
18	HT98-10033	2-	2	S	2-	S	S	9a
19	XW672	S	1	2,S	2-,S	S	S	+
20	XW674	S	S	S	S	S	S	none
21	BL940026	S	S	;	S	S	S	17
22	BL940812	21	S	;1	0	S	0	17,36
23	APD95-7763	1	2	;	2=	2	2-	17,24
24	APD95*8811-1	S	2	;1N	S	2-	S	17,8,+
25	APD95*8811-2	S	S	XN	S	2-	S	17,8
26	NC95-25305	11+	XN	-	0	S	0	10,36,+
27	NC95-25707	2	S	S	0	S	;	9a,36
28	VA96-54-326	;	S	S,2-	0	S	0	6,36,+
29	VA97W-375	;1-	1	;	;	2=	0	,10,36,+
30	TX91-13	2=,S	2=	2=	2=	2=	2=	Amigo
31	TX87-20	S	S	XN	S	2,S	2-,S	17
32	LA8513B1-7-B-1-4-2	S	S	11+N	S	S	S	17
33	LA90144B15-3-2	S	S	;	S	S	S	17
34	LA90412F14-1-4	S	S	;1N,S	S	S,2=	2	seg 17
35	LA9070G45-3-3-1	;,S	S	S	;	S	0	6,seg 6

**Treated Seed

SEPTORIA

		BelleMina AL	Bay AR	Fayetteville AR	Lexington KY	BatonRouge LA
				leaf blotch	tritici	
		0-10	1-9	%	0-9	0-9
1	FL 302	1.0	3.0	40	3	3.5
2	Coker 9835	1.0	4.3	40	5	2.5
3	Coker 9663	0.5	3.0	7	4	1.0
4	Mason	0.5	4.5	36	5	1.0
5	AR 494B-2-2	1.0	2.8	15	3	4.0
6	GA89482E7	1.0	5.5	45	4	3.0
7	BL930390	1.5	3.8	55	4	
8	SC921285	1.0	4.5	73	5	1.0
9	SC921299	1.0	4.5	65	5	1.0
10	FL8868	1.0	4.8	40	4	3.5
11	AR584A-3-1	0.5	2.8	21	3	
12	NC94-7197	1.0	3.5	23	3	1.5
13	AP-D94-5282	1.0	3.5	23	4	1.5
14	GA90524E35	1.3	5.8	56	6	2.0
15	GA901146E15	1.0	3.0	19	4	1.5
16	S9412192	1.0	5.8	24	5	3.5
17	HT98-10291	0.5	3.3	21	3	
18	HT98-10033	0.5	3.5	15	3	
19	XW672	0.8	4.5	36	5	1.5
20	XW674	1.0	4.0	55	4	1.5
21	BL940026	1.0	3.5	31	4	2.5
22	BL940812	1.5	3.5	55	4	
23	APD95-7763	1.0	3.0	11	4	1.5
24	APD95*8811-1	1.3	5.3	55	4	2.0
25	APD95*8811-2	1.0	4.0	35	4	2.0
26	NC95-25305	0.5	3.3	13	4	4.0
27	NC95-25707	1.0	4.0	40	4	1.0
28	VA96-54-326	1.0	3.8	70	3	1.5
29	VA97W-375	1.0	3.3	45	3	
30	TX91-13	1.0	4.3	19	5	1.5
31	TX87-20	1.0	3.5	17	4	
32	LA8513B1-7-B-1-4-2	1.0	4.0	60	4	2.5
33	LA90144B16-3-2	1.0	5.8	60	5	3.5
34	LA90412F14-1-4	1.0	4.3	50	4	2.5
35	LA9070G45-3-3-1	1.0	4.0	41	4	2.0
	LOCATION MEANS	1.0	4.0	37.5	4.1	2.1
	GROWTH STAGE/DATE					
				mean 4 ratings		

SEPTORIA

		Cleveland MS nodorum on leaves	Overton TX 0-9
1	FL 302	5.7	4
2	Coker 9835	5.8	5
3	Coker 9663	2.2	4
4	Mason	4.8	5
5	AR 494B-2-2	5.1	5
6	GA89482E7	5.4	3
7	BL930390	5.2	3
8	SC921285	4.7	2
9	SC921299	4.3	3
10	FL8868	5.9	5
11	AR584A-3-1	2.5	2
12	NC94-7197	3.7	2
13	AP-D94-5282	4.0	3
14	GA90524E35	6.9	5
15	GA901146E15	3.2	3
16	S9412192	5.7	7
17	HT98-10291	2.9	3
18	HT98-10033	4.0	5
19	XW672	3.7	4
20	XW674	5.3	4
21	BL940026	2.7	5
22	BL940812	5.7	2
23	APD95-7763	2.8	2
24	APD95*8811-1	6.0	4
25	APD95*8811-2	5.9	3
26	NC95-25305	5.8	7
27	NC95-25707	4.8	3
28	VA96-54-326	4.7	4
29	VA97W-375	3.2	2
30	TX91-13	5.3	4
31	TX87-20	2.6	2
32	LA8513B1-7-B-1-4-2	5.4	4
33	LA90144B16-3-2	6.8	6
34	LA90412F14-1-4	5.5	6
35	LA9070G45-3-3-1	5.4	3
LOCATION MEANS		4.7	3.8
GROWTH STAGE/DATE		March 30	

POWDERY MILDEW

		BelleMina AL	Quincy FL	Plains GA	Nashville IL	Lexington KY
		0-10	0-9			0-9
1	FL 302	0.0	6		1	4
2	Coker 9835	0.0	2		3	6
3	Coker 9663	0.0	2	7	2	5
4	Mason	0.0	5	9	3	6
5	AR 494B-2-2	0.0	4		1	5
6	GA89482E7	0.0	1	0	1	3
7	BL930390	0.7	6	9	1	5
8	SC921285	0.0	3	7	3	4
9	SC921299	0.0	0	7	1	7
10	FL8868	0.0	3		5	3
11	AR584A-3-1	0.7	0	7	3	5
12	NC94-7197	0.0	0	0	3	3
13	AP-D94-5282	0.0	1	0	3	5
14	GA90524E35	0.0	1	0	1	4
15	GA901146E15	0.0	1	7	1	4
16	S9412192	0.0	2	9	0	7
17	HT98-10291	1.3	7	7	5	6
18	HT98-10033	0.0	5	0	3	4
19	XW672	0.0	0	0	1	3
20	XW674	0.0	0	0	3	3
21	BL940026	0.0	1	5	1	4
22	BL940812	0.0	2	0	1	5
23	APD95-7763	0.0	1	5	3	6
24	APD95*8811-1	0.0	6	0	1	5
25	APD95*8811-2	0.0	2	0	1	5
26	NC95-25305	0.0	0	0	1	4
27	NC95-25707	0.0	2	5	1	4
28	VA96-54-326	0.0	0		1	3
29	VA97W-375	0.0	0	0	1	3
30	TX91-13	0.0	4	5	5	5
31	TX87-20	0.0	6	9	4	5
32	LA8513B1-7-B-1-4-2	0.0	7	7	5	7
33	LA90144B16-3-2	0.0	4		1	6
34	LA90412F14-1-4	0.0	2		1	3
35	LA9070G45-3-3-1	0.0	4		1	3
	LOCATION MEANS	0.1	2.6	3.9	2.1	4.6
	GROWTH STAGE/DATE					

POWDERY MILDEW

		BatonRouge LA	Kinston NC	Rowland NC	Wooster OH	Warsaw VA
		0-9			0-9	0-9
1	FL 302	0.0	6.5	3	2	3
2	Coker 9835	0.0	5.5	4	1	2
3	Coker 9663	1.0	6.5	4	1	4
4	Mason	1.5	6.5	4	1	5
5	AR 494B-2-2	0.5	3.5	2	1	1
6	GA89482E7	0.0	6.0	1	0	1
7	BL930390	0.0	4.5	4	1	1
8	SC921285	0.0	6.5	3	3	3
9	SC921299	0.0	6.0	4	3	3
10	FL8868	1.0	5.0	2	1	2
11	AR584A-3-1	0.0	5.5	3	5	1
12	NC94-7197	0.0	0.0	2	2	0
13	AP-D94-5282	0.0	2.5	3	1	0
14	GA90524E35	0.0	3.5	2	0	1
15	GA901146E15	0.0	5.0	2	1	0
16	S9412192	0.0	7.5	4	3	7
17	HT98-10291	1.5	7.0	4	5	4
18	HT98-10033	0.0	5.0	3	1	2
19	XW672	0.0	3.0	1	1	0
20	XW674	0.5	4.0	2	1	0
21	BL940026	0.0	2.0	1	1	0
22	BL940812	0.0	3.0	1	1	2
23	APD95-7763	0.0	5.0	2	4	8
24	APD95*8811-1	0.0	5.5	2	0	1
25	APD95*8811-2	0.0	6.0	1	0	1
26	NC95-25305	0.0	0.5	1	0	1
27	NC95-25707	0.0	3.5	1	2	0
28	VA96-54-326	0.0	2.0	1	1	0
29	VA97W-375	0.0	0.5	1	0	0
30	TX91-13	0.0	6.0	4	2	1
31	TX87-20	0.0	5.0	5	1	2
32	LA8513B1-7-B-1-4-2	3.5	7.0	6	3	5
33	LA90144B16-3-2	0.0	4.5	3	1	0
34	LA90412F14-1-4	0.0	3.0	1	0	0
35	LA9070G45-3-3-1	0.0	2.5	1	0	0
	LOCATION MEANS	0.3	4.4	2.5	1.4	1.7
	GROWTH STAGE/DATE				May 15	

POWDERY MILDEW

Raleigh, NC

		Seedling reaction to isolates							
		ABK	Aso	E2-15	E3-14	E3-25	F7-11	F7-12	Mo10
	Axminster Pm1	S	R	R	R	M	R	R	RM
	Orestis Pm2	S	R	R	R	R	S	R	R
	Asosan Pm3a	S	S	R	R	R	S	S	MS
	Chul Pm3b	M	R	R	R	R	RS	RS	R
	Sonora Pm3c	RS	S	M	R	M	MS	S	M
	Yuma Pm4a	R	S	R	MS	S	RM	S	M
	Ronos Pm4b	RM	R	R	S	S	R	RM	R
	CI 14125 Pm5	S	S	S	R	S	S	S	MS
	C747 Pm6	S	S	M	M	RS	S	S	M
	Transec Pm7	MS	S	S	S	S	S	S	S
	Kavkaz Pm8	M	S	RS	RS	S	RS	S	MS
	Pm12	RS	RM	RM	RM	M	R	R	RM
	Pm16	R	R	R	R	R	R	R	R
	Amigo Pm17	M	R	R	R	R	R	R	R
	Mich Amber	S	S	S	R	S	S	S	S
	Chancellor	S	S	S	M	S	S	S	M
1	FL302	M	S	RM	R	RM	MS	S	RM
2	C 9835	M	MS	S	M	M	S	S	M
3	C9663	S	S	R	R	R	S	S	S
4	MASON	S	S	R	R	R	S	S	M
5	AR494B-2-2	M	S	S	M	M	S	S	S
6	GA89482E7	M	MS	R	R	R	M	S	S
7	BL930390	S	S	RM	R	R	S	S	S
8	SC921285	R	M	R	R	R	M	R	RM
9	SC921299	RM	M	R	R	R	RM	RM	M
10	FL8868	S	MS	M	RS	M	S	MS	S
11	AR584A-3-1	S	S	RM	S	S	S	S	S
12	NC94-7197	M	R	R	R	M	R	R	R
13	APD94-5282	S	MS	M	RS	S	S	RS	S
14	GA90524E35	S	M	R	R	R	M	S	S
15	GA901146E15	S	MS	R	R	R	R	R	M
16	S9412192	S	S	MS	R	R	M	S	S
17	HT98-10291	M	S	M	RS	R	MS	S	S
18	HT98-10033	RM	S	R	R	M	S	RS	MS
19	XW672	S	S	R	R	R	S	M	S
20	XW674	S	S	M	R	RM	S	S	S
21	BL940026	S	S	RM	R	S	S	S	S
22	BL940812	S	S	S	R	S	S	S	S
23	APD95-7763	S	M	R	R	S	RS	R	RM
24	APD95-8811-1	S	S	R	R	R	S	S	S
25	APD95-8811-2	S	S	R	R	RS	S	S	S
26	NC95-25305	S	R	R	R	R	R	R	R
27	NC95-25707	S	S	M	R	S	S	S	S
28	VA96-54-326	R	R	R	R	RM	R	R	R
29	VA97W-375	M	R	M	RM	S	M	S	S
30	TX91-13	S	S	MS	R	R	S	S	S
31	TX87-20	S	S	S	M	S	S	S	S
32	LA8513B17B142	S	S	RM	R	R	S	S	S
33	LA90144B1632	M	RM	R	R	R	S	S	M
34	LA90412F1414	RS	M	M	R	MS	S	MS	M
35	LA9070G45331	S	RM	RM	R	MS	S	S	S

POWDERY MILDEW

Raleigh, NC

		Seedling reaction to isolates							
		Pm4	Yuma	WKin91	W72-27	3a	6	127	144
	Axminster Pm1	.	R	RS	S	R	R	S	R
	Orestis Pm2	.	S	S	M	R	R	R	R
	Asosan Pm3a	.	S	S	R	RS	S	R	R
	Chul Pm3b	.	R	R	R	MS	S	M	R
	Sonora Pm3c	.	S	M	RM	S	S	S	RM
	Yuma Pm4a	.	R	R	R	M	M	S	M
	Ronos Pm4b	.	R	R	R	R	S	S	RM
	CI 14125 Pm5	.	M	M	S	S	M	S	RM
	C747 Pm6	.	M	M	M	S	S	S	RM
	Transec Pm7	.	S	M	RM	S	S	S	S
	Kavkaz Pm8	.	R	RM	R	RM	S	S	S
	Pm12	.	R	R	R	MS	RM	MS	R
	Pm16	.	R	R	R	R	R	R	R
	Amigo Pm17	.	R	M	R	R	R	R	R
	Mich Amber	.	S	S	M	M	S	S	R
	Chancellor	.	S	R	S	M	M	R	M
1	FL302	.	S	RM	R	M	MS	S	R
2	C 9835	.	MS	RM	R	M	M	S	M
3	C9663	.	S	M	R	M	MS	R	R
4	MASON	.	S	M	R	S	S	R	R
5	AR494B-2-2	M	S	S	R	S	M	M	S
6	GA89482E7	R	M	R	R	RM	RM	RM	R
7	BL930390	MS	S	S	R	S	S	R	RM
8	SC921285	R	RM	M	R	M	M	R	R
9	SC921299	R	RM	M	RM	RM	M	R	R
10	FL8868	M	RS	S	R	RS	S	S	M
11	AR584A-3-1	S	S	S	R	S	S	RS	R
12	NC94-7197	R	R	RM	R	R	R	M	R
13	APD94-5282	MS	S	S	S	M	MS	S	M
14	GA90524E35	M	M	M	R	RM	M	R	R
15	GA901146E15	M	S	MS	R	M	MS	R	R
16	S9412192	R	S	S	R	M	M	R	R
17	HT98-10291	R	RS	MS	R	MS	S	R	R
18	HT98-10033	R	R	MS	R	S	S	MS	R
19	XW672	M	S	MS	R	M	RS	R	R
20	XW674	S	S	S	RM	S	S	R	R
21	BL940026	M	S	S	RM	S	S	S	RS
22	BL940812	S	S	S	RM	S	S	S	S
23	APD95-7763	R	M	S	R	R	RM	S	R
24	APD95-8811-1	M	S	S	R	S	S	R	R
25	APD95-8811-2	M	S	S	R	S	S	R	R
26	NC95-25305	R	R	S	R	R	R	R	R
27	NC95-25707	S	S	S	R	S	S	M	RS
28	VA96-54-326	R	R	R	R	R	R	RM	R
29	VA97W-375	R	M	R	RM	R	M	S	S
30	TX91-13	S	S	S	RM	S	S	RS	R
31	TX87-20	S	S	S	R	S	S	S	S
32	LA8513B17B142	S	S	S	R	S	S	R	R
33	LA90144B1632	S	S	S	R	M	M	RM	R
34	LA90412F1414	RM	MS	RS	RM	M	S	S	S
35	LA9070G45331	M	S	S	RM	S	S	S	R

POWDERY MILDEW

Raleigh, NC

		Seedling reaction to isolates							
		85063	#5	#7	#8	#9	#10	43a1	43a2
	Axminster Pm1	S	R	R	MS	R	R	R	R
	Orestis Pm2	R	R	R	R	R	R	S	S
	Asosan Pm3a	R	R	R	RM	R	R	S	S
	Chul Pm3b	R	R	R	M	R	R	RM	RM
	Sonora Pm3c	R	M	R	S	RM	R	S	S
	Yuma Pm4a	R	S	M	S	M	M	M	S
	Ronos Pm4b	R	R	R	S	RM	R	R	R
	CI 14125 Pm5	R	S	R	S	M	M	M	S
	C747 Pm6	M	RS	R	S	RM	M	M	S
	Transec Pm7	S	S	M	S	RM	S	M	S
	Kavkaz Pm8	S	S	RM	S	RM	RM	RM	RS
	Pm12	RM	RM	R	M	R	RM	R	RM
	Pm16	R	R	R	R	R	R	R	R
	Amigo Pm17	R	R	R	R	R	R	R	R
	Mich Amber	R	R	M	S	M	S	M	S
	Chancellor	S	S	R	S	RM	M	S	S
1	FL302	R	R	RM	R	RM	RM	S	S
2	C 9835	RM	RM	M	M	R	M	M	S
3	C9663	R	R	R	R	R	R	M	S
4	MASON	R	R	RM	R	R	R	S	S
5	AR494B-2-2	S	S	M	M	S	S	S	S
6	GA89482E7	R	R	S	R	M	R	S	S
7	BL930390	R	R	S	R	S	R	S	S
8	SC921285	R	R	R	RM	M	RM	M	MS
9	SC921299	R	R	R	RM	R	R	MS	RM
10	FL8868	RS	R	M	RM	MS	R	S	S
11	AR584A-3-1	RS	RS	S	S	S	RS	S	S
12	NC94-7197	R	R	R	M	R	R	R	RM
13	APD94-5282	RM	S	S	S	S	RM	MS	RS
14	GA90524E35	R	R	M	R	M	R	S	S
15	GA901146E15	R	R	S	R	S	R	R	S
16	S9412192	R	R	S	R	S	R	S	S
17	HT98-10291	R	R	S	R	S	RS	S	S
18	HT98-10033	RS	R	M	R	S	RS	S	R
19	XW672	R	R	M	R	S	R	S	M
20	XW674	R	R	S	R	S	R	S	S
21	BL940026	S	M	S	S	S	S	S	S
22	BL940812	S	RS	S	M	S	S	S	S
23	APD95-7763	S	M	RM	S	S	RM	R	R
24	APD95-8811-1	R	R	MS	R	S	R	S	S
25	APD95-8811-2	R	R	M	R	S	R	S	S
26	NC95-25305	R	R	RS	R	R	R	R	R
27	NC95-25707	S	M	M	RM	RS	MS	S	S
28	VA96-54-326	R	R	R	R	R	R	R	R
29	VA97W-375	S	M	R	R	S	M	R	RM
30	TX91-13	R	R	S	R	S	R	S	S
31	TX87-20	S	S	S	S	S	S	S	S
32	LA8513B17B142	R	R	S	R	S	R	S	S
33	LA90144B1632	R	R	RM	R	S	R	S	MS
34	LA90412F1414	RM	M	RM	M	S	RS	S	RS
35	LA9070G45331	M	S	M	M	S	MS	S	M

POWDERY MILDEW

Raleigh, NC

		Seedling reaction to isolates						
		73b2	101a2	153a2	156b1	169-1b	209a2	216a
	Axminster Pm1	RS	S	MS	RM	R	R	R
	Orestis Pm2	R	R	S	M	S	R	R
	Asosan Pm3a	S	R	S	M	R	S	M
	Chul Pm3b	R	RM	RM	M	R	R	R
	Sonora Pm3c	M	S	S	S	M	R	R
	Yuma Pm4a	M	S	R	M	S	M	R
	Ronos Pm4b	R	S	RM	R	RM	R	RS
	CI 14125 Pm5	S	S	S	M	MS	RM	R
	C747 Pm6	S	M	S	M	S	S	M
	Transec Pm7	S	S	S	S	S	S	S
	Kavkaz Pm8	RM	MS	MS	RM	R	R	R
	Pm12	R	M	MS	R	RM	M	R
	Pm16	R	R	R	R	R	R	R
	Amigo Pm17	R	R	RM	R	R	R	R
	Mich Amber	S	S	S	S	RM	S	MS
	Chancellor	M	S	S	RM	S	S	R
1	FL302	M	R	S	S	R	M	RM
2	C 9835	M	S	S	S	S	S	S
3	C9663	S	R	S	MS	R	S	RS
4	MASON	M	R	S	S	R	S	S
5	AR494B-2-2	S	M	S	M	S	S	S
6	GA89482E7	MS	R	S	M	R	M	R
7	BL930390	S	RM	S	S	R	S	S
8	SC921285	RM	RM	RM	M	R	R	R
9	SC921299	R	R	RM	M	R	R	R
10	FL8868	S	RS	S	S	RS	S	RS
11	AR584A-3-1	S	RS	S	S	S	S	S
12	NC94-7197	R	S	R	R	R	R	R
13	APD94-5282	M	M	S	MS	RM	S	RM
14	GA90524E35	M	R	S	S	R	M	M
15	GA901146E15	MS	R	RS	MS	R	S	S
16	S9412192	RS	R	S	MS	R	S	R
17	HT98-10291	RM	R	S	S	R	S	S
18	HT98-10033	RM	MS	MS	S	R	S	R
19	XW672	MS	R	MS	M	R	S	R
20	XW674	S	RM	S	S	R	S	S
21	BL940026	S	S	S	S	S	S	MS
22	BL940812	S	S	S	MS	MS	S	M
23	APD95-7763	R	S	S	R	RS	R	R
24	APD95-8811-1	S	R	S	MS	R	S	R
25	APD95-8811-2	MS	R	S	M	R	S	R
26	NC95-25305	R	R	S	R	R	R	R
27	NC95-25707	S	M	S	MS	S	S	R
28	VA96-54-326	R	R	R	R	R	RS	R
29	VA97W-375	S	M	M	R	S	MS	R
30	TX91-13	S	R	S	RM	R	S	R
31	TX87-20	S	S	S	S	S	S	S
32	LA8513B17B142	S	RM	S	S	R	S	S
33	LA90144B1632	RM	R	S	RM	R	S	RM
34	LA90412F1414	M	RM	S	R	M	RS	M
35	LA9070G45331	S	MS	S	M	S	S	S

XANTHOMONAS

		BatonRouge LA
		0-9
1	FL 302	1.5
2	Coker 9835	2.5
3	Coker 9663	1.0
4	Mason	1.0
5	AR 494B-2-2	2.0
6	GA89482E7	2.0
7	BL930390	
8	SC921285	0.5
9	SC921299	1.0
10	FL8868	1.0
11	AR584A-3-1	
12	NC94-7197	1.0
13	AP-D94-5282	1.5
14	GA90524E35	1.5
15	GA901146E15	1.0
16	S9412192	1.5
17	HT98-10291	
18	HT98-10033	
19	XW672	1.0
20	XW674	1.0
21	BL940026	1.0
22	BL940812	1.0
23	APD95-7763	1.0
24	APD95*8811-1	1.5
25	APD95*8811-2	1.5
26	NC95-25305	3.0
27	NC95-25707	1.0
28	VA96-54-326	1.5
29	VA97W-375	
30	TX91-13	1.0
31	TX87-20	
32	LA8513B1-7-B-1-4-2	2.0
33	LA90144B16-3-2	1.0
34	LA90412F14-1-4	1.0
35	LA9070G45-3-3-1	1.0
LOCATION MEANS		1.3

SHARP EYESPOT

		Bay AR 1-9
1	FL 302	3.0
2	Coker 9835	3.5
3	Coker 9663	3.0
4	Mason	3.0
5	AR 494B-2-2	2.5
6	GA89482E7	4.0
7	BL930390	2.8
8	SC921285	3.5
9	SC921299	3.3
10	FL8868	4.3
11	AR584A-3-1	3.5
12	NC94-7197	3.0
13	AP-D94-5282	2.5
14	GA90524E35	5.0
15	GA901146E15	3.0
16	S9412192	4.8
17	HT98-10291	2.8
18	HT98-10033	3.3
19	XW672	3.3
20	XW674	3.3
21	BL940026	4.3
22	BL940812	2.5
23	APD95-7763	3.3
24	APD95*8811-1	4.3
25	APD95*8811-2	3.3
26	NC95-25305	2.3
27	NC95-25707	2.8
28	VA96-54-326	3.3
29	VA97W-375	2.3
30	TX91-13	3.3
31	TX87-20	2.8
32	LA8513B1-7-B-1-4-2	3.5
33	LA90144B16-3-2	3.5
34	LA90412F14-1-4	3.8
35	LA9070G45-3-3-1	3.8
LOCATION MEANS		3.3

rating of individual stems which lodged

RHIZOCTONIA

		Nashville IL
1	FL 302	8
2	Coker 9835	7
3	Coker 9663	8
4	Mason	8
5	AR 494B-2-2	3
6	GA89482E7	8
7	BL930390	2
8	SC921285	7
9	SC921299	8
10	FL8868	8
11	AR584A-3-1	3
12	NC94-7197	3
13	AP-D94-5282	5
14	GA90524E35	8
15	GA901146E15	8
16	S9412192	9
17	HT98-10291	6
18	HT98-10033	5
19	XW672	8
20	XW674	8
21	BL940026	8
22	BL940812	8
23	APD95-7763	8
24	APD95*8811-1	8
25	APD95*8811-2	8
26	NC95-25305	8
27	NC95-25707	5
28	VA96-54-326	6
29	VA97W-375	7
30	TX91-13	5
31	TX87-20	8
32	LA8513B1-7-B-1-4-2	8
33	LA90144B16-3-2	8
34	LA90412F14-1-4	8
35	LA9070G45-3-3-1	9
LOCATION MEANS		6.9

BYDV

		BelleMina AL	Griffin GA	Nashville IL	Kinston NC	Prosper TX	Warsaw VA
		%		1-9		0-9	0-9
1	FL 302	0.0	3	6	3.5	5.3	1
2	Coker 9835	5.0	5	8	2.5	6.0	1
3	Coker 9663	0.0	1	4	3.0	4.0	1
4	Mason	2.5	3	8	2.5	5.3	1
5	AR 494B-2-2	0.5	2	5	2.0	3.3	0
6	GA89482E7	1.5	2	6	3.0	6.3	1
7	BL930390	5.0	6	9	3.0	5.0	1
8	SC921285	2.5	4	9	2.5	7.3	4
9	SC921299	2.5	5	3	2.0	7.0	4
10	FL8868	1.0	1	8	3.0	6.0	3
11	AR584A-3-1	0.0	4	5	3.0	5.3	1
12	NC94-7197	4.0	9	7	3.5	5.7	3
13	AP-D94-5282	2.5	4	6	2.0	5.0	3
14	GA90524E35	0.5	2	4	2.0	7.0	2
15	GA901146E15	0.5	3	9	1.0	3.3	1
16	S9412192	0.0	6	0		6.0	3
17	HT98-10291	0.0	7	5	3.0	2.7	2
18	HT98-10033	1.0	6	7	3.5	4.7	2
19	XW672	2.5	3	8	2.5	3.7	0
20	XW674	1.0	3	8	1.0	3.7	1
21	BL940026	1.0	2	8	2.0	2.7	1
22	BL940812	2.5	8	9	3.0	3.7	1
23	APD95-7763	0.0	3	4	3.0	4.3	5
24	APD95*8811-1	4.3	3	5	3.5	8.3	2
25	APD95*8811-2	0.0	3	6	3.0	8.0	2
26	NC95-25305	0.5	5	9	3.5	5.3	2
27	NC95-25707	0.5	4	9	2.5	6.7	2
28	VA96-54-326	2.5	4	8	1.0	4.0	0
29	VA97W-375	5.0	6	8	1.0	5.3	1
30	TX91-13	0.0	3	8	4.0	6.7	2
31	TX87-20	2.5	4	9	2.5	6.0	1
32	LA8513B1-7-B-1-4-2	2.5	2	6	3.0	7.0	3
33	LA90144B16-3-2	0.0	2	4	2.5	7.0	2
34	LA90412F14-1-4	5.0	6	9	3.0	5.3	2
35	LA9070G45-3-3-1	0.0	2	7	2.5	6.0	2
	LOCATION MEANS	1.7	3.9	6.7	2.6	5.4	1.8
	GROWTH STAGE/DATE						
				based on black heads after ripening			

VIRUSES

		Bay AR spindle streak 1-9	Keiser AR soilborne mosaic 0-9	Keiser AR spindlestreak mosaic 0-9	Keiser AR soilborne & spindle streak 0-9
1	FL 302	6.0	5.7	8.0	4.0
2	Coker 9835	5.8	1.8	5.0	2.5
3	Coker 9663	4.8	3.0	1.5	0.0
4	Mason	3.8	2.2	0.0	0.0
5	AR 494B-2-2	2.3	0.0	1.5	0.0
6	GA89482E7	6.0	4.7	7.0	3.0
7	BL930390	2.8	0.0	0.0	0.0
8	SC921285	7.0	0.0	2.5	0.0
9	SC921299	6.5	1.8	4.0	0.0
10	FL8868	5.5	1.5	4.0	1.5
11	AR584A-3-1	1.3	0.0	0.0	0.0
12	NC94-7197	4.5	0.5	8.0	4.0
13	AP-D94-5282	4.0	3.0	4.0	0.0
14	GA90524E35	4.8	1.8	1.5	0.0
15	GA901146E15	4.8	0.5	0.0	6.5
16	S9412192	3.5	6.0	1.5	7.0
17	HT98-10291	3.3	0.8	1.5	0.0
18	HT98-10033	2.8	0.0	0.0	0.0
19	XW672	6.5	1.0	6.5	4.0
20	XW674	6.0	1.0	6.5	0.0
21	BL940026	5.5	1.8	6.5	4.0
22	BL940812	5.0	1.0	1.5	0.0
23	APD95-7763	2.3	0.0	0.0	4.0
24	APD95*8811-1	2.5	2.8	2.5	4.0
25	APD95*8811-2	2.5	2.8	1.5	2.5
26	NC95-25305	2.3	3.2	4.0	4.0
27	NC95-25707	2.8	0.0	1.5	0.0
28	VA96-54-326	4.5	0.0	1.5	0.0
29	VA97W-375	3.0	2.3	2.5	4.0
30	TX91-13	1.8	1.8	0.0	0.0
31	TX87-20	4.0	0.5	8.0	0.0
32	LA8513B1-7-B-1-4-2	5.3	3.2	8.0	4.0
33	LA90144B16-3-2	6.8	0.0	8.5	4.0
34	LA90412F14-1-4	6.0	0.0	5.5	2.5
35	LA9070G45-3-3-1	4.8	4.8	4.5	7.0
LOCATION MEANS		4.3	1.7	3.4	2.1
			mean 6 ratings	mean 2 ratings	mean 2 ratings

HESSIAN FLY

W. Lafayette, IN

		Biotype GP	Biotype B	Biotype C	Biotype D	Biotype E	Biotype L
1	FL 302	0 - 12	0 - 17	0 - 14	0 - 15	0 - 15	0 - 15
2	Coker 9835	13 - 1	0 - 11	10 - 3	0 - 21	5 - 7	0 - 14
3	Coker 9663	5 - 8	2 - 9	0 - 12	4 - 11	13 - 3	0 - 16
4	Mason	0 - 11	0 - 16	0 - 12	0 - 13	0 - 16	0 - 17
5	AR 494B-2-2	14 - 7	0 - 13	2 - 10	0 - 16	0 - 16	0 - 12
6	GA89482E7	0 - 14	0 - 12	3 - 9	0 - 21	0 - 11	0 - 16
7	BL930390	0 - 15	0 - 16	0 - 15	0 - 18	0 - 15	0 - 14
8	SC921285	11 - 2	0 - 14	14 - 0	0 - 15	0 - 16	0 - 17
9	SC921299	10 - 5	0 - 14	12 - 3	0 - 13	0 - 17	0 - 16
10	FL8868	15 - 0	12 - 0	5 - 7	11 - 4	14 - 0	7 - 8
11	AR584A-3-1	0 - 15	0 - 12	0 - 12	0 - 10	0 - 18	0 - 17
12	NC94-7197	0 - 10	0 - 16	0 - 16	0 - 15	0 - 16	0 - 15
13	AP-D94-5282	2 - 11	0 - 15	0 - 12	0 - 17	0 - 15	0 - 14
14	GA90524E35	4 - 6	0 - 14	1 - 12	0 - 17	8 - 5	0 - 16
15	GA901146E15	0 - 12	0 - 16	0 - 12	0 - 15	3 - 10	0 - 14
16	S9412192	0 - 14	0 - 15	0 - 11	0 - 20	0 - 16	0 - 13
17	HT98-10291	0 - 11	0 - 16	0 - 13	0 - 12	0 - 13	0 - 7
18	HT98-10033	17 - 0	13 - 0	15 - 0	13 - 1	13 - 1	11 - 1
19	XW672	13 - 0	15 - 0	14 - 0	16 - 0	12 - 0	17 - 0
20	XW674	0 - 10	0 - 10	0 - 14	0 - 17	0 - 17	0 - 21
21	BL940026	17 - 0	12 - 0	0 - 16	0 - 17	16 - 0	0 - 18
22	BL940812	6 - 10	0 - 12	15 - 2	0 - 19	0 - 18	0 - 15
23	APD95-7763	0 - 15	0 - 10	2 - 16	0 - 17	2 - 12	0 - 16
24	APD95*8811-1	0 - 13	0 - 12	0 - 12	0 - 14	0 - 13	0 - 16
25	APD95*8811-2	0 - 11	0 - 14	0 - 10	0 - 19	0 - 10	0 - 14
26	NC95-25305	0 - 15	0 - 14	0 - 13	0 - 15	0 - 11	0 - 13
27	NC95-25707	15 - 0	13 - 0	16 - 0	17 - 0	16 - 0	18 - 0
28	VA96-54-326	0 - 13	0 - 12	0 - 16	0 - 21	0 - 17	0 - 16
29	VA97W-375	0 - 11	0 - 14	0 - 14	0 - 15	0 - 16	0 - 15
30	TX91-13	1 - 15	0 - 13	1 - 14	0 - 20	0 - 20	0 - 19
31	TX87-20	0 - 16	0 - 9	0 - 15	0 - 17	0 - 19	0 - 15
32	LA8513B1-7-B-1-4-2	0 - 10	0 - 12	0 - 11	0 - 14	0 - 18	0 - 17
33	LA90144B16-3-2	0 - 14	0 - 16	0 - 16	0 - 14	0 - 13	0 - 14
34	LA90412F14-1-4	6 - 5	0 - 14	9 - 5	0 - 18	0 - 14	0 - 12
35	LA9070G45-3-3-1	0 - 10	0 - 10	0 - 15	0 - 17	0 - 16	0 - 18

no. seedlings resistant - no. seedlings susceptible

HESSIAN FLY

		Plains GA reaction	Plains GA % infested stems	Plains GA % immatures per stem
1	FL 302	S	86.7	4.3
2	Coker 9835	R	6.7	0.2
3	Coker 9663	S	66.7	2.8
4	Mason	S	70.0	2.4
5	AR 494B-2-2	R	20.0	0.8
6	GA89482E7	R	10.0	0.3
7	BL930390	S	93.3	4.8
8	SC921285	S	83.3	3.6
9	SC921299	S	80.0	4.2
10	FL8868	R	0.0	0.0
11	AR584A-3-1	R	92.2	4.3
12	NC94-7197	R	0.0	0.0
13	AP-D94-5282	S	86.7	4.8
14	GA90524E35	R	6.7	0.2
15	GA901146E15	MS	80.0	3.7
16	S9412192	S	90.0	4.2
17	HT98-10291	S	93.3	4.6
18	HT98-10033	R	23.3	0.5
19	XW672	R	0.0	0.0
20	XW674	R	13.3	0.3
21	BL940026	R	40.7	1.3
22	BL940812	R	66.7	3.4
23	APD95-7763	S	100.0	3.8
24	APD95*8811-1	MR	40.0	1.5
25	APD95*8811-2	MR	43.3	1.5
26	NC95-25305	MS	76.7	3.7
27	NC95-25707	R	3.3	0.1
28	VA96-54-326	MR	70.0	3.1
29	VA97W-375	S	93.3	4.6
30	TX91-13	R	10.0	0.2
31	TX87-20	S	96.7	4.7
32	LA8513B1-7-B-1-4-2	S	73.3	2.9
33	LA90144B16-3-2	R	0.0	0.0
34	LA90412F14-1-4	R	10.0	0.1
35	LA9070G45-3-3-1	MS	93.3	3.6

GREEN LEAF RETENTION

		Cleveland MS
		1-9
1	FL 302	4.2
2	Coker 9835	7.9
3	Coker 9663	2.3
4	Mason	3.4
5	AR 494B-2-2	3.1
6	GA89482E7	5.7
7	BL930390	4.1
8	SC921285	4.7
9	SC921299	4.6
10	FL8868	6.7
11	AR584A-3-1	2.3
12	NC94-7197	2.7
13	AP-D94-5282	3.1
14	GA90524E35	8.7
15	GA901146E15	2.0
16	S9412192	8.0
17	HT98-10291	2.0
18	HT98-10033	2.0
19	XW672	3.3
20	XW674	3.1
21	BL940026	3.8
22	BL940812	5.8
23	APD95-7763	2.1
24	APD95*8811-1	7.4
25	APD95*8811-2	6.1
26	NC95-25305	4.9
27	NC95-25707	3.8
28	VA96-54-326	4.7
29	VA97W-375	3.0
30	TX91-13	4.1
31	TX87-20	3.0
32	LA8513B1-7-B-1-4-2	7.7
33	LA90144B16-3-2	8.1
34	LA90412F14-1-4	7.8
35	LA9070G45-3-3-1	5.7
LOCATION MEANS		4.6
GROWTH STAGE/DATE		April 28

1=excellent; 9=very poor

ACID SOIL TOLERANCE

		Stillwater OK	Stillwater OK	Stillwater OK
		1-5	1-5	1-5
1	FL 302	1	1	1
2	Coker 9835	1	1	2
3	Coker 9663	2	1	1
4	Mason	1	1	2
5	AR 494B-2-2	2	3	3
6	GA89482E7	1	2	1
7	BL930390	2	2	1
8	SC921285	1	2	1
9	SC921299	1	2	1
10	FL8868	1	1	1
11	AR584A-3-1	1	1	1
12	NC94-7197	2	2	2
13	AP-D94-5282	2	2	2
14	GA90524E35	1	1	2
15	GA901146E15			
16	S9412192	2	2	3
17	HT98-10291	2	2	1
18	HT98-10033	2	2	2
19	XW672	3	2	2
20	XW674	2	2	1
21	BL940026	1	1	1
22	BL940812	2	2	2
23	APD95-7763	1	1	1
24	APD95*8811-1	2	1	2
25	APD95*8811-2	1	1	1
26	NC95-25305	2	1	2
27	NC95-25707	3	3	3
28	VA96-54-326	1	1	2
29	VA97W-375	2	2	2
30	TX91-13	2	2	2
31	TX87-20	1	1	1
32	LA8513B1-7-B-1-4-2	1	1	1
33	LA90144B16-3-2	2	1	2
34	LA90412F14-1-4	2	1	2
35	LA9070G45-3-3-1	1	1	2
	LOCATION MEANS	1.6	1.5	1.6
	GROWTH STAGE/DATE	Dec 15	Feb 23	May 5
	1=tolerant; 5=susceptible	see location notes		

MATURITY

		St.Matthews SC
		1-9
1	FL 302	2.7
2	Coker 9835	2.3
3	Coker 9663	2.0
4	Mason	2.0
5	AR 494B-2-2	2.0
6	GA89482E7	1.3
7	BL930390	3.3
8	SC921285	2.7
9	SC921299	2.3
10	FL8868	3.3
11	AR584A-3-1	3.3
12	NC94-7197	2.0
13	AP-D94-5282	3.0
14	GA90524E35	2.3
15	GA901146E15	1.3
16	S9412192	1.0
17	HT98-10291	4.3
18	HT98-10033	5.0
19	XW672	2.0
20	XW674	3.0
21	BL940026	2.0
22	BL940812	4.0
23	APD95-7763	2.0
24	APD95*8811-1	2.3
25	APD95*8811-2	3.0
26	NC95-25305	1.3
27	NC95-25707	3.0
28	VA96-54-326	2.0
29	VA97W-375	4.0
30	TX91-13	3.0
31	TX87-20	5.0
32	LA8513B1-7-B-1-4-2	2.7
33	LA90144B16-3-2	2.7
34	LA90412F14-1-4	2.0
35	LA9070G45-3-3-1	2.0
LOCATION MEANS		2.6
GROWTH STAGE/DATE		April 8

1=early; 9=late

VERNALIZATION RESPONSE

		Beeville TX
		1-3
1	FL 302	3
2	Coker 9835	3
3	Coker 9663	3
4	Mason	3
5	AR 494B-2-2	3
6	GA89482E7	3
7	BL930390	1
8	SC921285	1
9	SC921299	1
10	FL8868	3
11	AR584A-3-1	1
12	NC94-7197	2
13	AP-D94-5282	2
14	GA90524E35	3
15	GA901146E15	2
16	S9412192	3
17	HT98-10291	1
18	HT98-10033	1
19	XW672	3
20	XW674	2
21	BL940026	3
22	BL940812	1
23	APD95-7763	1
24	APD95*8811-1	3
25	APD95*8811-2	3
26	NC95-25305	3
27	NC95-25707	1
28	VA96-54-326	1
29	VA97W-375	1
30	TX91-13	1
31	TX87-20	1
32	LA8513B1-7-B-1-4-2	3
33	LA90144B16-3-2	3
34	LA90412F14-1-4	3
35	LA9070G45-3-3-1	2
LOCATION MEANS		2.1

1=no vernalization
2=vernalized but late maturity
3=completely vernalized

1RS STATUS

		Lincoln NE
1	FL302	non.1RS
2	Coker 9835	non.1RS
3	Coker 9663	non.1RS
4	Mason	non.1RS
5	AR 494B-2-2	non.1RS
6	GA89482E7	1BL.1RS
7	BL930390	non.1RS
8	SC921285	non.1RS
9	SC921299	non.1RS
10	FL8868	non.1RS
11	AR584A-3-1	non.1RS
12	NC94-7197	1BL.1RS
13	AP-D94-5282	1BL.1RS
14	GA90524E35	non.1RS
15	GA901146E15	1AL.1RS
16	S9412192	1BL.1RS
17	HT98-10291	non.1RS
18	HT98-10033	non.1RS
19	XW672	non.1RS
20	XW674	non.1RS
21	BL940026	non.1RS
22	BL940812	non.1RS
23	APD95-7763	non.1RS
24	APD95*8811-1	non.1RS
25	APD95*8811-2	non.1RS
26	NC95-25305	non.1RS
27	NC95-25707	non.1RS
28	VA96-54-326	non.1RS
29	VA97W-375	1BL.1RS
30	TX91-13	1BL.1RS
31	TX87-20	non.1RS
32	LA8513B1-7-B-1-4-2	non.1RS
33	LA90144B16-3-2	non.1RS
34	LA90412F14-1-4	non.1RS
35	LA9070G45-3-3-1	non.1RS

1999 Crop
Advanced Nursery Evaluation
MBQ - Uniform Southern Nursery

#3701 - #3735 Region 1
#3751 - #3785 Region 2

35 USN composites were submitted from each of two regions. Region 1 represents interior and lower leaf rust environments, and Region 2 was a more humid environment, with more leaf rust.

Each region was analyzed separately, using the FLA 302 checks as the standards. Additionally, data from both regions were combined, and samples were compared to the mean data of both FLA 302 checks. This allows comparison between regions.

In the SWQL data-base of 232 Quad-milled cultivars, FLA 302 ranked 80th for adjusted yield, based on data from 18 millings.

	Region 1	Region 2	Mean Both	Data-base
Test Weight	59.3	59.8	59.6	57.58
Softness Equivalent	59.2	56.1	57.7	59.88
Adjusted Yield	72.4	72.3	72.4	71.44
Flour Protein	8.98	9.46	9.22	9.22
A.W.R.C.	53.0	53.3	53.2	55.27
Cookie Diameter	17.55	17.50	17.53	17.35
Top Grain	2	2	2	3

From the above table, it is possible to see that both regions were very similar. The only differences between regions were the S.E. values (3.1% difference). The standards were slightly more stringent than the historical data.

The table that compares both regions reveals that region 1 had significantly higher values (a mean of 57.1% vs. 54.1%), and cookie diameters that averaged .23cm. larger.

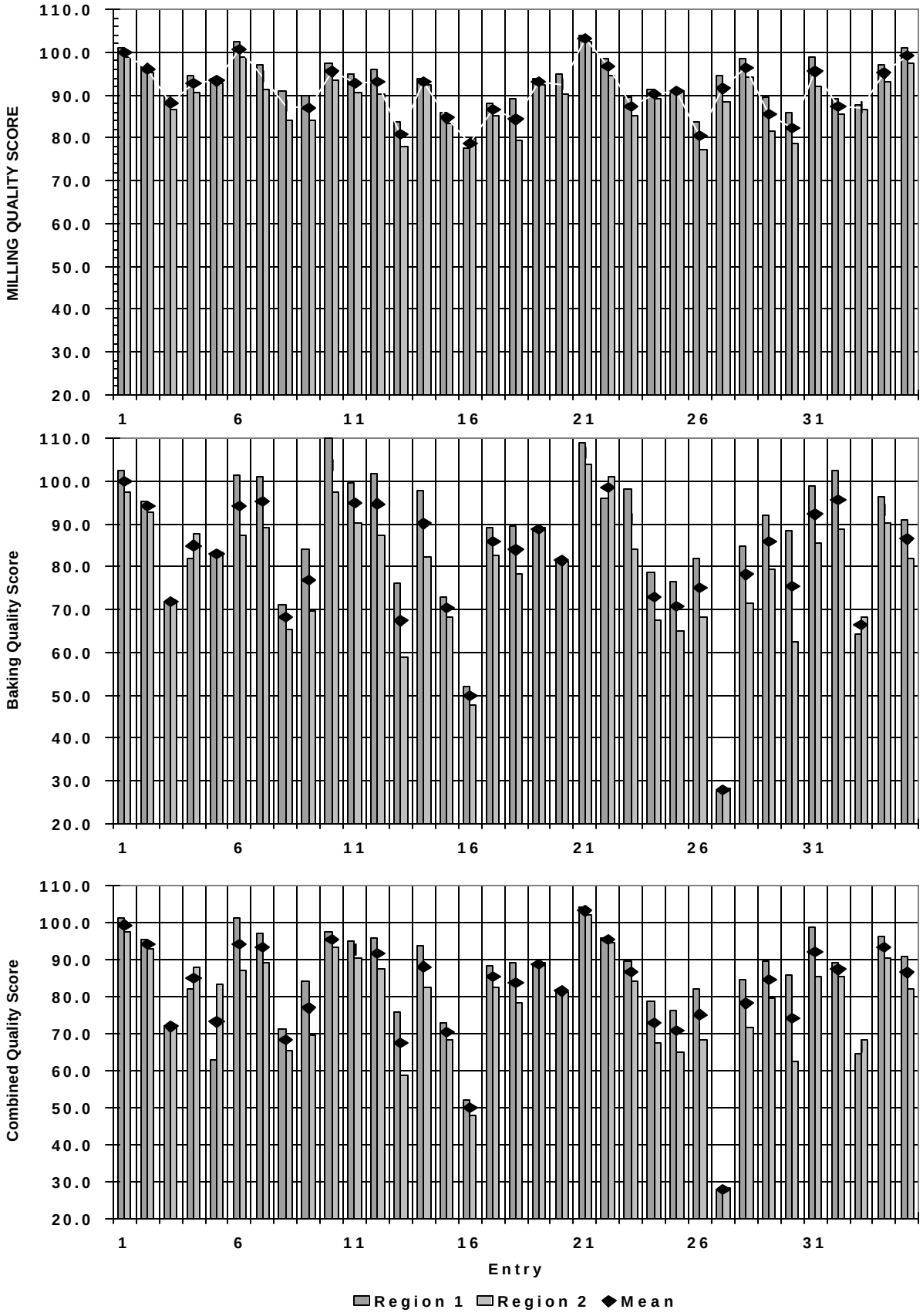
Entries #16 (SC9412192) and #27 (NC 95-25707) both scored poorly for Baking Quality. SC 9412192 had high A.W.R.C. and small cookie diameter. It also had low adjusted yield, averaging 67.1%. NC 95-25707 had a very low S.E., averaging 44.7%. This cultivar also had high A.W.R.C. and very small cookies.

Entries #22 (BL 940812) and #34 (LA 90412F14-1-4) both had high test weights for both regions.

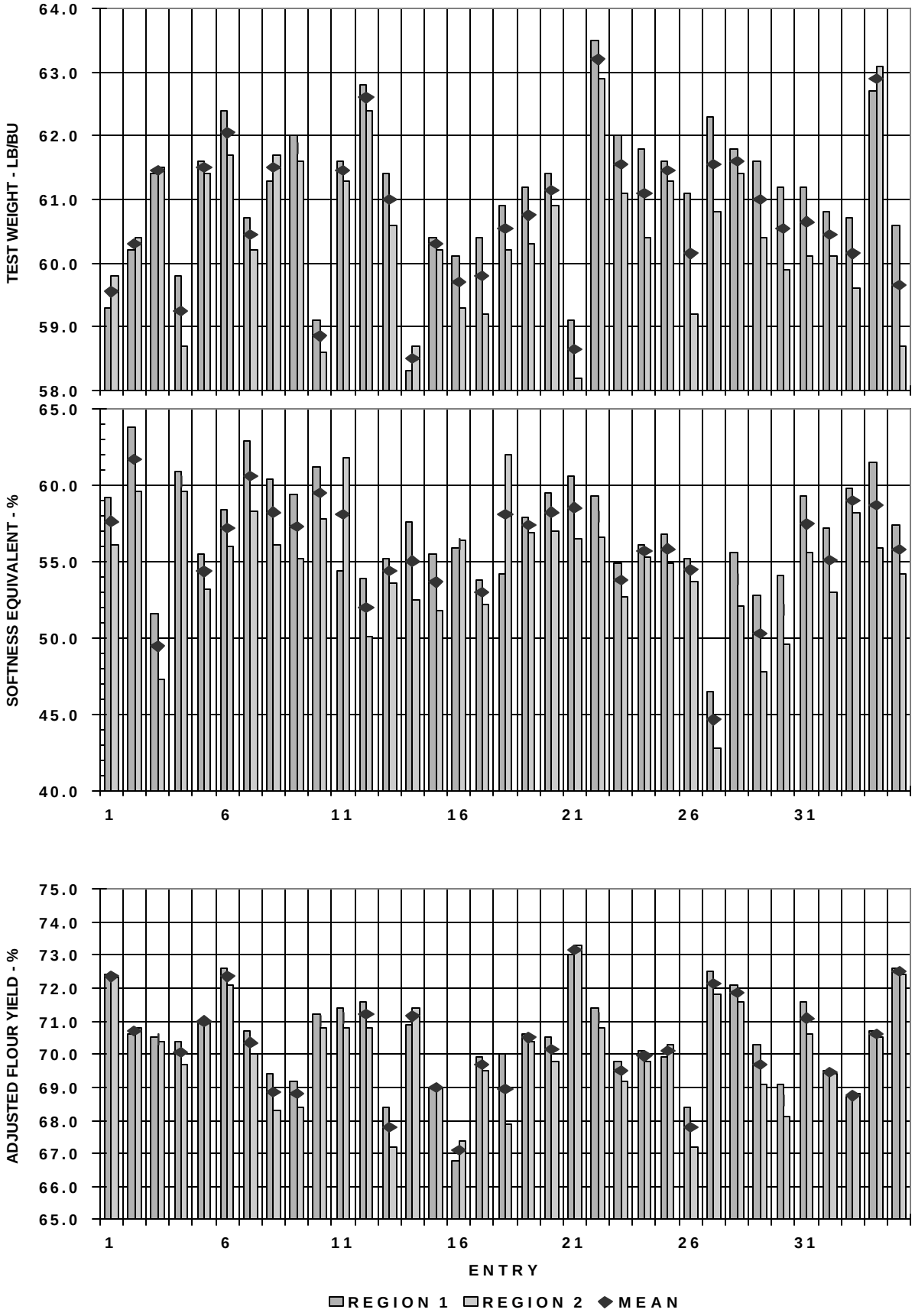
Entry #21 (BL 940026) stood out with high Adjusted Yield (73.3% avg.), low A.W.R.C., and good cookie diameter.

Entries with Combined Quality Scores of "A" or '"B" generally were acceptable, although several had low adjusted yields. "C" entries usually had small cookie diameters, or other quality shortcomings.

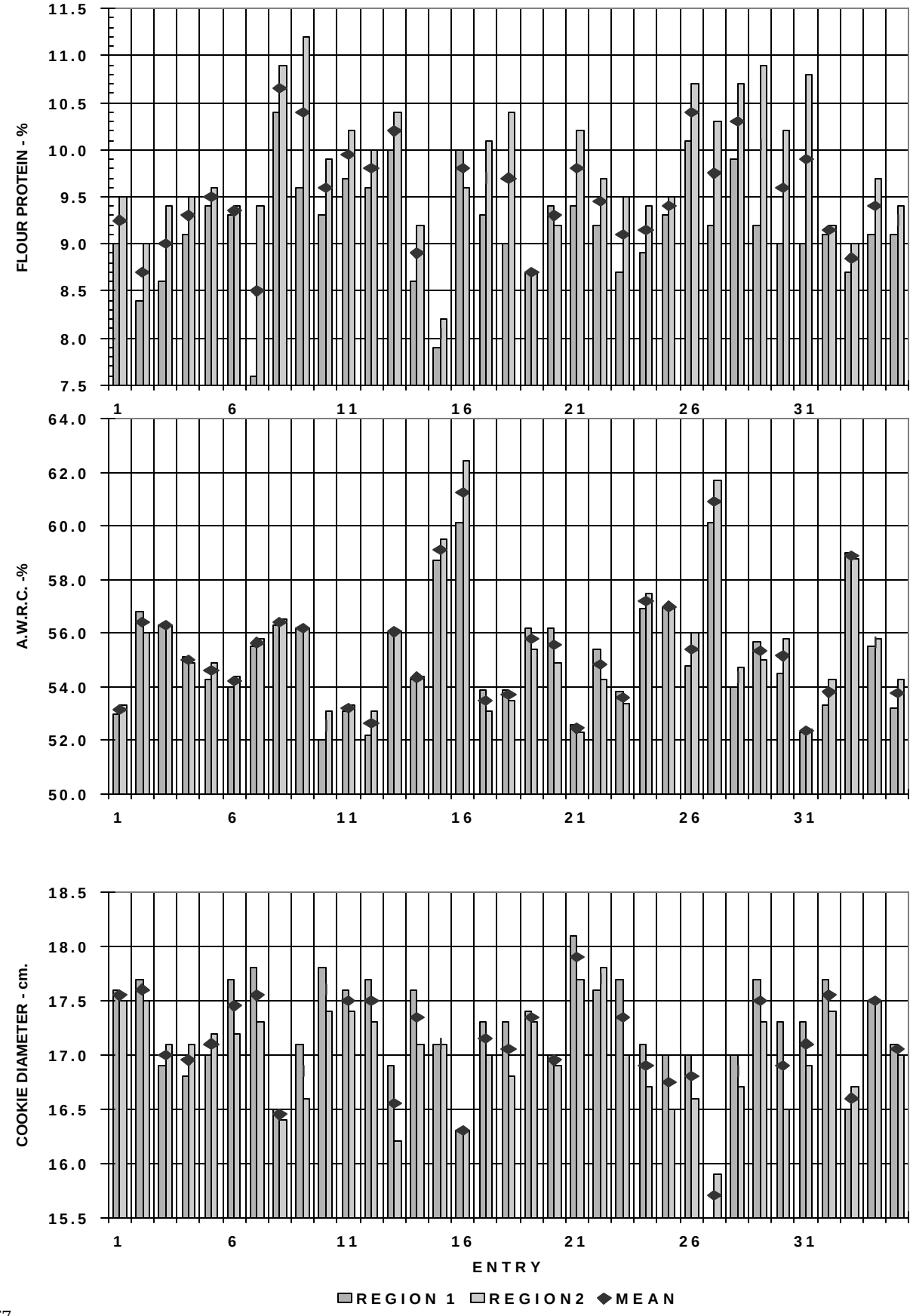
UNIFORM SOFT RED WINTER WHEAT NURSERY, 1999



UNIFORM SOFT RED WINTER WHEAT NURSERY, 1999



UNIFORM SOFT RED WINTER WHEAT NURSERY, 1999



MQB-USN
REGION 1

STD= #3107, FL 302

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
		STANDARD	100.0 A	100.0 A	100.0 A	59.3	59.2	72.4	8.98	53.0	17.55	2
3701	1	FL 302	100.0 A	100.0 A	100.0 A	59.3	59.2	72.4	8.98	53.0	17.55	2
3702	2	Coker 9835	96.1 B	94.4 C	94.4 C	60.2	63.8	70.6 Q	8.40	56.8 Q	17.66	3
3703	3	Coker 9663	88.9 D	69.7 F	69.7 F	61.4	51.6 Q	70.5 Q	8.62	56.3 Q	16.89 Q	2
3704	4	Mason	93.6 C	80.2 E	80.2 E	59.8	60.9	70.4 Q	9.13	55.1 *	16.82 Q	2
3705	5	AR 494B-2-2	93.0 C	80.3 E	80.3 E	61.6	55.5 *	71.0 *	9.41	54.3	16.96 Q	2
3706	6	GA89482E7	101.5 A	98.8 B	98.8 B	62.4	58.4	72.6	9.32	54.0	17.66	3
3707	7	BL930390	96.1 B	100.1 A	96.1 B	60.7	62.9	70.7 Q	7.65	55.5 *	17.76	5
3708	8	SC921285	89.8 D	68.8 F	68.8 F	61.3	60.4	69.4 Q	10.44 Q	56.3 Q	16.46 Q	1
3709	9	SC921299	88.9 D	81.6 E	81.6 E	62.0	59.4	69.2 Q	9.60	56.2 Q	17.09 *	2
3710	10	FL8868	96.4 B	109.3 A	96.4 B	59.1	61.2	71.2 *	9.29	52.0	17.79	4
3711	11	AR584A-3-1	93.9 C	97.1 B	93.9 C	61.6	54.4 *	71.4 *	9.73 *	53.1	17.64	4
3712	12	NC94-7197	94.8 C	99.7 B	94.8 C	62.8	53.9 *	71.6 *	9.57	52.2	17.67	4
3713	13	AP-D94-5282	82.7 E	73.6 F	73.6 F	61.4	55.2 *	68.4 Q	9.98 *	56.0 Q	16.88 Q	2
3714	14	GA90524E35	92.7 C	95.3 B	92.7 C	58.3	57.6	70.9 *	8.57	54.3	17.57	3
3715	15	GA901146E15	85.0 D	70.3 F	70.3 F	60.4	55.5 *	69.0 Q	7.88	58.7 Q	17.06 Q	3

MQB-USN
REGION 1

STD= #3107, FL 302

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3716	16	SC9412192	76.6 F	49.6 F	49.6 F	60.1	55.9 *	66.8 Q	9.98 *	60.1 Q	16.25 Q	1
3717	17	HT98-10291	87.2 D	86.8 D	86.8 D	60.4	53.8 *	69.9 Q	9.32	53.9	17.29 *	4
3718	18	HT98-10033	88.2 D	87.2 D	87.2 D	60.9	54.2 *	70.0 Q	9.02	53.9	17.29 *	3
3719	19	XW672	92.8 C	85.9 D	85.9 D	61.2	57.9	70.6 Q	8.74	56.2 Q	17.36	4
3720	20	XW674	93.9 C	79.1 F	79.1 F	61.4	59.5	70.5 Q	9.38	56.2 Q	16.97 Q	2
3721	21	BL940026	103.0 A	107.4 A	103.0 A	59.1	60.6	73.0	9.39	52.6	18.07	3
3722	22	BL940812	97.5 B	93.5 C	93.5 C	63.5	59.3	71.4 *	9.25	55.4 *	17.55	2
3723	23	APD95-7763	88.5 D	95.8 B	88.5 D	62.0	54.9 *	69.8 Q	8.72	53.8	17.65	4
3724	24	APD95*8811-1	90.4 C	76.1 F	76.1 F	61.8	56.1	70.1 Q	8.91	56.9 Q	17.07 Q	3
3725	25	APD95*8811-2	89.7 D	73.9 F	73.9 F	61.6	56.8	69.9 Q	9.28	57.0 Q	16.95 Q	3
3726	26	NC95-25305	82.9 E	79.5 F	79.5 F	61.1	55.2 *	68.4 Q	10.08 *	54.8 *	17.00 Q	3
3727	27	NC95-25707	93.7 C	25.4 F	25.4 F	62.3	46.5 Q	72.5	9.25	60.1 Q	15.53 Q	0
3728	28	VA96-54-326	97.4 B	82.3 E	82.3 E	61.8	55.6 *	72.1	9.91 *	54.0	17.01 Q	3
3729	29	VA97W-375	88.7 D	89.7 D	88.7 D	61.6	52.8 Q	70.3 Q	9.18	55.7 *	17.70	5
3730	30	TX91-13	84.8 E	85.9 D	84.8 E	61.2	54.1 *	69.1 Q	8.99	54.5 *	17.31 *	4
3731	31	TX87-20	97.7 B	96.4 B	96.4 B	61.2	59.3	71.6 *	9.04	52.3	17.29 *	2
3732	32	LA8513B1-7-B-1-4-2	88.0 D	100.0 A	88.0 D	60.8	57.2	69.5 Q	9.10	53.3	17.68	4
3733	33	LA90144B16-3-2	86.6 D	61.9 F	61.9 F	60.7	59.8	68.7 Q	8.75	59.0 Q	16.51 Q	2
3734	34	LA90412F14-1-4	96.1 B	94.8 C	94.8 C	62.7	61.5	70.7 Q	9.07	55.5 *	17.53	2
3735	35	LA907OG45-3-3-1	100.1 A	88.5 D	88.5 D	60.6	57.4	72.6	9.12	53.2	17.12 *	2

MQB-USN
REGION 1

STD= #3107, FL 302

LAB NO.	ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3721 21	BL940026	103.0 A	107.4 A	103.0 A	59.1	60.6	73.0	9.39	52.6	18.07	3
	STANDARD	100.0 A	100.0 A	100.0 A	59.3	59.2	72.4	8.98	53.0	17.55	2
3701 1	FL 302	100.0 A	100.0 A	100.0 A	59.3	59.2	72.4	8.98	53.0	17.55	2
3706 6	GA89482E7	101.5 A	98.8 B	98.8 B	62.4	58.4	72.6	9.32	54.0	17.66	3
3710 10	FL8868	96.4 B	109.3 A	96.4 B	59.1	61.2	71.2 *	9.29	52.0	17.79	4
3731 31	TX87-20	97.7 B	96.4 B	96.4 B	61.2	59.3	71.6 *	9.04	52.3	17.29 *	2
3707 7	BL930390	96.1 B	100.1 A	96.1 B	60.7	62.9	70.7 Q	7.65	55.5 *	17.76	5
3712 12	NC94-7197	94.8 C	99.7 B	94.8 C	62.8	53.9 *	71.6 *	9.57	52.2	17.67	4
3734 34	LA90412F14-1-4	96.1 B	94.8 C	94.8 C	62.7	61.5	70.7 Q	9.07	55.5 *	17.53	2
3702 2	Coker 9835	96.1 B	94.4 C	94.4 C	60.2	63.8	70.6 Q	8.40	56.8 Q	17.66	3
3711 11	AR584A-3-1	93.9 C	97.1 B	93.9 C	61.6	54.4 *	71.4 *	9.73 *	53.1	17.64	4
3722 22	BL940812	97.5 B	93.5 C	93.5 C	63.5	59.3	71.4 *	9.25	55.4 *	17.55	2
3714 14	GA90524E35	92.7 C	95.3 B	92.7 C	58.3	57.6	70.9 *	8.57	54.3	17.57	3
3729 29	VA97W-375	88.7 D	89.7 D	88.7 D	61.6	52.8 Q	70.3 Q	9.18	55.7 *	17.70	5
3723 23	APD95-7763	88.5 D	95.8 B	88.5 D	62.0	54.9 *	69.8 Q	8.72	53.8	17.65	4
3735 35	LA907OG45-3-3-1	100.1 A	88.5 D	88.5 D	60.6	57.4	72.6	9.12	53.2	17.12 *	2
3732 32	LA8513B1-7-B-1-4-2	88.0 D	100.0 A	88.0 D	60.8	57.2	69.5 Q	9.10	53.3	17.68	4
3718 18	HT98-10033	88.2 D	87.2 D	87.2 D	60.9	54.2 *	70.0 Q	9.02	53.9	17.29 *	3
3717 17	HT98-10291	87.2 D	86.8 D	86.8 D	60.4	53.8 *	69.9 Q	9.32	53.9	17.29 *	4

MQB-USN
REGION 1

STD= #3107, FL 302

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3719	19	XW672	92.8 C	85.9 D	85.9 D	61.2	57.9	70.6 Q	8.74	56.2 Q	17.36	4
3730	30	TX91-13	84.8 E	85.9 D	84.8 E	61.2	54.1 *	69.1 Q	8.99	54.5 *	17.31 *	4
3728	28	VA96-54-326	97.4 B	82.3 E	82.3 E	61.8	55.6 *	72.1	9.91 *	54.0	17.01 Q	3
3709	9	SC921299	88.9 D	81.6 E	81.6 E	62.0	59.4	69.2 Q	9.60	56.2 Q	17.09 *	2
3705	5	AR 494B-2-2	93.0 C	80.3 E	80.3 E	61.6	55.5 *	71.0 *	9.41	54.3	16.96 Q	2
3704	4	Mason	93.6 C	80.2 E	80.2 E	59.8	60.9	70.4 Q	9.13	55.1 *	16.82 Q	2
3726	26	NC95-25305	82.9 E	79.5 F	79.5 F	61.1	55.2 *	68.4 Q	10.08 *	54.8 *	17.00 Q	3
3720	20	XW674	93.9 C	79.1 F	79.1 F	61.4	59.5	70.5 Q	9.38	56.2 Q	16.97 Q	2
3724	24	APD95*8811-1	90.4 C	76.1 F	76.1 F	61.8	56.1	70.1 Q	8.91	56.9 Q	17.07 Q	3
3725	25	APD95*8811-2	89.7 D	73.9 F	73.9 F	61.6	56.8	69.9 Q	9.28	57.0 Q	16.95 Q	3
3713	13	AP-D94-5282	82.7 E	73.6 F	73.6 F	61.4	55.2 *	68.4 Q	9.98 *	56.0 Q	16.88 Q	2
3715	15	GA901146E15	85.0 D	70.3 F	70.3 F	60.4	55.5 *	69.0 Q	7.88	58.7 Q	17.06 Q	3
3703	3	Coker 9663	88.9 D	69.7 F	69.7 F	61.4	51.6 Q	70.5 Q	8.62	56.3 Q	16.89 Q	2
3708	8	SC921285	89.8 D	68.8 F	68.8 F	61.3	60.4	69.4 Q	10.44 Q	56.3 Q	16.46 Q	1
3733	33	LA90144B16-3-2	86.6 D	61.9 F	61.9 F	60.7	59.8	68.7 Q	8.75	59.0 Q	16.51 Q	2
3716	16	SC9412192	76.6 F	49.6 F	49.6 F	60.1	55.9 *	66.8 Q	9.98 *	60.1 Q	16.25 Q	1
3727	27	NC95-25707	93.7 C	25.4 F	25.4 F	62.3	46.5 Q	72.5	9.25	60.1 Q	15.53 Q	0

ADVANCED NURSERY
EVALUATION SUMMARY
1999 CROP

MBQ-USN
REGION 1

STANDARD DATA	
TEST WT	59.27
S.E	59.24
YIELD	72.43
FL. PROTEIN	8.98
AWRC	53
DIAMETER	17.55
TOP GRAIN	2

ADJUSTED L.S.D.	
TEST WT	1.1459
S.E	3.1855
YIELD	0.7775
FL. PROTEIN	0.727
AWRC	1.4575
DIAMETER	0.234

COMBINED QUALITY SCORES	
A	2
B	4
C	6
D	7
E	5
F	1
TOTAL	35

NOTATION BEGINS		
TEST WT	58.12	56.98
S.E	56.05	52.87
YIELD	71.65	70.87
FL. PROTEIN	9.71	10.43
AWRC	54.46	55.92
DIAMETER	17.32	17.08

AVERAGED DATA	
TEST WT	61.1
S.E	57.06
YIELD	70.46
FL. PROTEIN	9.16
AWRC	55.22
DIAMETER	17.2
TOP GRAIN	2.7714

MQB-USN
REGION 2

STD= #3157, FL 302

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
		STANDARD	100.0 A	100.0 A	100.0 A	59.8	56.1	72.3	9.46	53.3	17.50	2
3751	1	FL 302	100.0 A	100.0 A	100.0 A	59.8	56.1	72.3	9.46	53.3	17.50	2
3752	2	Coker 9835	96.5 B	94.5 C	94.5 C	60.4	59.6	70.8 Q	9.03	56.0 *	17.47	2
3753	3	Coker 9663	87.5 D	74.0 F	74.0 F	61.5	47.3 Q	70.4 Q	9.41	56.3 Q	17.08 *	3
3754	4	Mason	91.7 C	89.3 D	89.3 D	58.7	59.6	69.7 Q	9.52	54.9 *	17.09 *	2
3755	5	AR 494B-2-2	93.7 C	85.9 D	85.9 D	61.4	53.2	71.0 *	9.63	54.9 *	17.18 *	3
3756	6	GA89482E7	99.8 B	89.6 D	89.6 D	61.7	56.0	72.1	9.40	54.4	17.16 *	2
3757	7	BL930390	92.4 C	91.8 C	91.8 C	60.2	58.3	70.0 Q	9.42	55.8 *	17.33	2
3758	8	SC921285	85.2 D	67.9 F	67.9 F	61.7	56.1	68.3 Q	10.86 *	56.5 Q	16.41 Q	1
3759	9	SC921299	85.0 D	72.1 F	72.1 F	61.6	55.2	68.4 Q	11.24 Q	56.2 *	16.61 Q	1
3760	10	FL8868	94.5 C	99.9 B	94.5 C	58.6 *	57.8	70.8 Q	9.86	53.1	17.39	1
3761	11	AR584A-3-1	91.7 C	92.7 C	91.7 C	61.3	51.8 *	70.8 Q	10.17	53.3	17.36	2
3762	12	NC94-7197	91.1 C	89.7 D	89.7 D	62.4	50.1 *	70.8 Q	9.98	53.1	17.27	1
3763	13	AP-D94-5282	78.9 F	61.0 F	61.0 F	60.6	53.6	67.2 Q	10.44 *	56.1 *	16.15 Q	0
3764	14	GA90524E35	93.5 C	84.7 E	84.7 E	58.7	52.5 *	71.4 *	9.16	54.4	17.09 *	2
3765	15	GA901146E15	84.4 E	70.4 F	70.4 F	60.2	51.8 *	69.0 Q	8.22	59.5 Q	17.11 *	3

MQB-USN
REGION 2

STD= #3157, FL 302

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3766	16	SC9412192	81.0 E	50.0 F	50.0 F	59.3	56.4	67.4 Q	9.59	62.4 Q	16.31 Q	1
3767	17	HT98-10291	86.1 D	84.9 D	84.9 D	59.2	52.2 *	69.5 Q	10.15	53.1	16.95 Q	3
3768	18	HT98-10033	80.3 E	80.6 E	80.3 E	60.2	52.0 *	67.9 Q	10.37 *	53.5	16.81 Q	2
3769	19	XW672	93.4 C	91.4 C	91.4 C	60.3	56.9	70.4 Q	8.66	55.4 *	17.33	4
3770	20	XW674	91.3 C	83.7 E	83.7 E	60.9	57.0	69.8 Q	9.22	54.9 *	16.90 Q	1
3771	21	BL940026	103.3 A	106.3 A	103.3 A	58.2 *	56.5	73.3	10.17	52.3	17.66	2
3772	22	BL940812	95.6 B	102.7 A	95.6 B	62.9	56.6	70.8 *	9.67	54.3	17.83	3
3773	23	APD95-7763	86.2 D	86.3 D	86.2 D	61.1	52.7 *	69.2 Q	9.49	53.4	17.03 Q	3
3774	24	APD95*8811-1	90.0 C	69.8 F	69.8 F	60.4	55.3	69.8 Q	9.39	57.5 Q	16.66 Q	1
3775	25	APD95*8811-2	92.0 C	67.5 F	67.5 F	61.3	54.9	70.3 Q	9.50	57.0 Q	16.51 Q	1
3776	26	NC95-25305	78.3 F	70.7 F	70.7 F	59.2	53.7	67.2 Q	10.68 *	56.0 *	16.59 Q	1
3777	27	NC95-25707	89.4 D	30.2 F	30.2 F	60.8	42.8 Q	71.8	10.33 *	61.7 Q	15.93 Q	0
3778	28	VA96-54-326	95.3 B	73.9 F	73.9 F	61.4	52.1 *	71.6	10.67 *	54.7	16.65 Q	1
3779	29	VA97W-375	82.4 E	81.8 E	81.8 E	60.4	47.8 Q	69.1 Q	10.87 *	55.0 *	17.25 *	2
3780	30	TX91-13	79.5 F	64.8 F	64.8 F	59.9	49.6 Q	68.1 Q	10.23 *	55.8 *	16.48 Q	2
3781	31	TX87-20	93.1 C	88.0 D	88.0 D	60.1	55.6	70.6 Q	10.77 *	52.4	16.85 Q	1
3782	32	LA8513B1-7-B-1-4-2	86.6 D	91.0 C	86.6 D	60.1	53.0 *	69.4 Q	9.16	54.3	17.35	2
3783	33	LA90144B16-3-2	87.6 D	70.8 F	70.8 F	59.6	58.2	68.8 Q	8.97	58.8 Q	16.74 Q	1
3784	34	LA90412F14-1-4	94.1 C	92.8 C	92.8 C	63.1	55.9	70.5 Q	9.70	55.8 *	17.49	1
3785	35	LA9070G45-3-3-1	98.3 B	84.3 E	84.3 E	58.7	54.2	72.4	9.42	54.3	16.98 Q	2

MQB-USN
REGION 2

STD= #3157, FL 302

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3771	21	BL940026	103.3 A	106.3 A	103.3 A	58.2 *	56.5	73.3	10.17	52.3	17.66	2
		STANDARD	100.0 A	100.0 A	100.0 A	59.8	56.1	72.3	9.46	53.3	17.50	2
3751	1	FL 302	100.0 A	100.0 A	100.0 A	59.8	56.1	72.3	9.46	53.3	17.50	2
3772	22	BL940812	95.6 B	102.7 A	95.6 B	62.9	56.6	70.8 *	9.67	54.3	17.83	3
3752	2	Coker 9835	96.5 B	94.5 C	94.5 C	60.4	59.6	70.8 Q	9.03	56.0 *	17.47	2
3760	10	FL8868	94.5 C	99.9 B	94.5 C	58.6 *	57.8	70.8 Q	9.86	53.1	17.39	1
3784	34	LA90412F14-1-4	94.1 C	92.8 C	92.8 C	63.1	55.9	70.5 Q	9.70	55.8 *	17.49	1
3757	7	BL930390	92.4 C	91.8 C	91.8 C	60.2	58.3	70.0 Q	9.42	55.8 *	17.33	2
3761	11	AR584A-3-1	91.7 C	92.7 C	91.7 C	61.3	51.8 *	70.8 Q	10.17	53.3	17.36	2
3769	19	XW672	93.4 C	91.4 C	91.4 C	60.3	56.9	70.4 Q	8.66	55.4 *	17.33	4
3762	12	NC94-7197	91.1 C	89.7 D	89.7 D	62.4	50.1 *	70.8 Q	9.98	53.1	17.27	1
3756	6	GA89482E7	99.8 B	89.6 D	89.6 D	61.7	56.0	72.1	9.40	54.4	17.16 *	2
3754	4	Mason	91.7 C	89.3 D	89.3 D	58.7	59.6	69.7 Q	9.52	54.9 *	17.09 *	2
3781	31	TX87-20	93.1 C	88.0 D	88.0 D	60.1	55.6	70.6 Q	10.77 *	52.4	16.85 Q	1
3782	32	LA8513B1-7-B-1-4-2	86.6 D	91.0 C	86.6 D	60.1	53.0 *	69.4 Q	9.16	54.3	17.35	2
3773	23	APD95-7763	86.2 D	86.3 D	86.2 D	61.1	52.7 *	69.2 Q	9.49	53.4	17.03 Q	3
3755	5	AR 494B-2-2	93.7 C	85.9 D	85.9 D	61.4	53.2	71.0 *	9.63	54.9 *	17.18 *	3
3767	17	HT98-10291	86.1 D	84.9 D	84.9 D	59.2	52.2 *	69.5 Q	10.15	53.1	16.95 Q	3
3764	14	GA90524E35	93.5 C	84.7 E	84.7 E	58.7	52.5 *	71.4 *	9.16	54.4	17.09 *	2
3785	35	LA9070G45-3-3-1	98.3 B	84.3 E	84.3 E	58.7	54.2	72.4	9.42	54.3	16.98 Q	2

MQB-USN
REGION 2

STD= #3157, FL 302

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3770	20	XW674	91.3 C	83.7 E	83.7 E	60.9	57.0	69.8 Q	9.22	54.9 *	16.90 Q	1
3779	29	VA97W-375	82.4 E	81.8 E	81.8 E	60.4	47.8 Q	69.1 Q	10.87 *	55.0 *	17.25 *	2
3768	18	HT98-10033	80.3 E	80.6 E	80.3 E	60.2	52.0 *	67.9 Q	10.37 *	53.5	16.81 Q	2
3753	3	Coker 9663	87.5 D	74.0 F	74.0 F	61.5	47.3 Q	70.4 Q	9.41	56.3 Q	17.08 *	3
3778	28	VA96-54-326	95.3 B	73.9 F	73.9 F	61.4	52.1 *	71.6	10.67 *	54.7	16.65 Q	1
3759	9	SC921299	85.0 D	72.1 F	72.1 F	61.6	55.2	68.4 Q	11.24 Q	56.2 *	16.61 Q	1
3783	33	LA90144B16-3-2	87.6 D	70.8 F	70.8 F	59.6	58.2	68.8 Q	8.97	58.8 Q	16.74 Q	1
3776	26	NC95-25305	78.3 F	70.7 F	70.7 F	59.2	53.7	67.2 Q	10.68 *	56.0 *	16.59 Q	1
3765	15	GA901146E15	84.4 E	70.4 F	70.4 F	60.2	51.8 *	69.0 Q	8.22	59.5 Q	17.11 *	3
3774	24	APD95*8811-1	90.0 C	69.8 F	69.8 F	60.4	55.3	69.8 Q	9.39	57.5 Q	16.66 Q	1
3758	8	SC921285	85.2 D	67.9 F	67.9 F	61.7	56.1	68.3 Q	10.86 *	56.5 Q	16.41 Q	1
3775	25	APD95*8811-2	92.0 C	67.5 F	67.5 F	61.3	54.9	70.3 Q	9.50	57.0 Q	16.51 Q	1
3780	30	TX91-13	79.5 F	64.8 F	64.8 F	59.9	49.6 Q	68.1 Q	10.23 *	55.8 *	16.48 Q	2
3763	13	AP-D94-5282	78.9 F	61.0 F	61.0 F	60.6	53.6	67.2 Q	10.44 *	56.1 *	16.15 Q	0
3766	16	SC9412192	81.0 E	50.0 F	50.0 F	59.3	56.4	67.4 Q	9.59	62.4 Q	16.31 Q	1
3777	27	NC95-25707	89.4 D	30.2 F	30.2 F	60.8	42.8 Q	71.8	10.33 *	61.7 Q	15.93 Q	0

ADVANCED NURSERY
EVALUATION SUMMARY
1999 CROP

MBQ-USN
REGION 2

STANDARD DATA	
TEST WT	59.8
S.E	56.1
YIELD	72.34
FL. PROTEIN	9.46
AWRC	53.3
DIAMETER	17.5
TOP GRAIN	2

ADJUSTED L.S.D.	
TEST WT	1.1561
S.E	3.0169
YIELD	0.7766
FL. PROTEIN	0.7659
AWRC	1.4658
DIAMETER	0.2333

COMBINED QUALITY SCORES	
A	2
B	1
C	6
D	8
E	5
F	13
TOTAL	35

NOTATION BEGINS		
TEST WT	58.64	57.49
S.E	53.09	50.07
YIELD	71.57	70.79
FL. PROTEIN	10.23	10.99
AWRC	54.77	56.23
DIAMETER	17.27	17.03

AVERAGED DATA	
TEST WT	60.5
S.E	54.06
YIELD	70.00
FL. PROTEIN	9.77
AWRC	55.47
DIAMETER	16.98
TOP GRAIN	1.7429

MQB-USN
BOTH REGIONS

STD= AVG OF TWO FL 302 ENTRIES

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
		STANDARD	100.0 A	100.0 A	100.0 A	59.5	57.7	72.4	9.22	53.2	17.53	2
3701	1	FL 302	101.1 A	102.5 A	101.1 A	59.3	59.2	72.4	8.98	53.0	17.55	2
3702	2	Coker 9835	96.8 B	95.4 B	95.4 B	60.2	63.8	70.6 Q	8.40	56.8 Q	17.66	3
3703	3	Coker 9663	89.8 D	72.0 F	72.0 F	61.4	51.6 *	70.5 Q	8.62	56.3 Q	16.89 Q	2
3704	4	Mason	94.7 C	82.1 E	82.1 E	59.8	60.9	70.4 Q	9.13	55.1 *	16.82 Q	2
3705	5	AR 494B-2-2	94.0 C	82.7 E	82.7 E	61.6	55.5	71.0	9.41	54.3	16.96 Q	2
3706	6	GA89482E7	102.5 A	101.3 A	101.3 A	62.4	58.4	72.6	9.32	54.0	17.66	3
3707	7	BL930390	97.2 B	101.1 A	97.2 B	60.7	62.9	70.7 Q	7.65	55.5 *	17.76	5
3708	8	SC921285	90.9 C	71.1 F	71.1 F	61.3	60.4	69.4 Q	10.44 *	56.3 Q	16.46 Q	1
3709	9	SC921299	90.0 D	84.1 E	84.1 E	62.0	59.4	69.2 Q	9.60	56.2 Q	17.09 *	2
3710	10	FL8868	97.5 B	110.0 A	97.5 B	59.1	61.2	71.2 *	9.29	52.0	17.79	4
3711	11	AR584A-3-1	94.9 C	99.5 B	94.9 B	61.6	54.4 *	71.4 *	9.73	53.1	17.64	4
3712	12	NC94-7197	95.8 B	101.9 A	95.8 B	62.8	53.9 *	71.6 *	9.57	52.2	17.67	4
3713	13	AP-D94-5282	83.7 E	76.0 F	76.0 F	61.4	55.2	68.4 Q	9.98 *	56.0 *	16.88 Q	2
3714	14	GA90524E35	93.7 C	97.8 B	93.7 C	58.3 *	57.6	70.9 *	8.57	54.3	17.57	3
3715	15	GA901146E15	86.0 D	72.8 F	72.8 F	60.4	55.5	69.0 Q	7.88	58.7 Q	17.06 Q	3

MQB-USN
BOTH REGIONS

STD= AVG OF TWO FL 302 ENTRIES

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3716	16	SC9412192	77.6 F	52.1 F	52.1 F	60.1	55.9	66.8 Q	9.98 *	60.1 Q	16.25 Q	1
3717	17	HT98-10291	88.2 D	89.2 D	88.2 D	60.4	53.8 *	69.9 Q	9.32	53.9	17.29 *	4
3718	18	HT98-10033	89.2 D	89.6 D	89.2 D	60.9	54.2 *	70.0 Q	9.02	53.9	17.29 *	3
3719	19	XW672	93.8 C	88.4 D	88.4 D	61.2	57.9	70.6 Q	8.74	56.2 Q	17.36	4
3720	20	XW674	94.9 C	81.6 E	81.6 E	61.4	59.5	70.5 Q	9.38	56.2 Q	16.97 Q	2
3721	21	BL940026	104.1 A	109.1 A	104.1 A	59.1	60.6	73.0	9.39	52.6	18.07	3
3722	22	BL940812	98.6 B	96.0 B	96.0 B	63.5	59.3	71.4 *	9.25	55.4 *	17.55	2
3723	23	APD95-7763	89.5 D	98.2 B	89.5 D	62.0	54.9	69.8 Q	8.72	53.8	17.65	4
3724	24	APD95*8811-1	91.4 C	78.6 F	78.6 F	61.8	56.1	70.1 Q	8.91	56.9 Q	17.07 *	3
3725	25	APD95*8811-2	90.7 C	76.4 F	76.4 F	61.6	56.8	69.9 Q	9.28	57.0 Q	16.95 Q	3
3726	26	NC95-25305	83.8 E	81.9 E	81.9 E	61.1	55.2	68.4 Q	10.08 *	54.8 *	17.00 Q	3
3727	27	NC95-25707	94.5 C	27.6 F	27.6 F	62.3	46.5 Q	72.5	9.25	60.1 Q	15.53 Q	0
3728	28	VA96-54-326	98.4 B	84.7 E	84.7 E	61.8	55.6	72.1	9.91	54.0	17.01 Q	3
3729	29	VA97W-375	89.6 D	92.1 C	89.6 D	61.6	52.8 *	70.3 Q	9.18	55.7 *	17.70	5
3730	30	TX91-13	85.8 D	88.3 D	85.8 D	61.2	54.1 *	69.1 Q	8.99	54.5	17.31	4
3731	31	TX87-20	98.8 B	98.9 B	98.8 B	61.2	59.3	71.6	9.04	52.3	17.29 *	2
3732	32	LA8513B1-7-B-1-4-2	89.0 D	102.5 A	89.0 D	60.8	57.2	69.5 Q	9.10	53.3	17.68	4
3733	33	LA90144B16-3-2	87.7 D	64.4 F	64.4 F	60.7	59.8	68.7 Q	8.75	59.0 Q	16.51 Q	2
3734	34	LA90412F14-1-4	97.2 B	96.2 B	96.2 B	62.7	61.5	70.7 Q	9.07	55.5 *	17.53	2
3735	35	LA9070G45-3-3-1	101.1 A	91.0 C	91.0 C	60.6	57.4	72.6	9.12	53.2	17.12 *	2

MQB-USN
BOTH REGIONS

STD= AVG OF TWO FL 302 ENTRIES

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3751	1	FL 302	98.9 B	97.6 B	97.6 B	59.8	56.1	72.3	9.46	53.3	17.50	2
3752	2	Coker 9835	95.4 B	92.9 C	92.9 C	60.4	59.6	70.8 Q	9.03	56.0 *	17.47	2
3753	3	Coker 9663	86.6 D	71.8 F	71.8 F	61.5	47.3 Q	70.4 Q	9.41	56.3 Q	17.08 *	3
3754	4	Mason	90.6 C	87.8 D	87.8 D	58.7	59.6	69.7 Q	9.52	54.9 *	17.09 *	2
3755	5	AR 494B-2-2	92.7 C	83.5 E	83.5 E	61.4	53.2 *	71.0	9.63	54.9 *	17.18 *	3
3756	6	GA89482E7	98.7 B	87.2 D	87.2 D	61.7	56.0	72.1	9.40	54.4	17.16 *	2
3757	7	BL930390	91.4 C	89.3 D	89.3 D	60.2	58.3	70.0 Q	9.42	55.8 *	17.33	2
3758	8	SC921285	84.1 E	65.5 F	65.5 F	61.7	56.1	68.3 Q	10.86 Q	56.5 Q	16.41 Q	1
3759	9	SC921299	84.0 E	69.7 F	69.7 F	61.6	55.2	68.4 Q	11.24 Q	56.2 Q	16.61 Q	0
3760	10	FL8868	93.5 C	97.4 B	93.5 C	58.6	57.8	70.8 Q	9.86	53.1	17.39	2
3761	11	AR584A-3-1	90.7 C	90.4 C	90.4 C	61.3	51.8 *	70.8 Q	10.17 *	53.3	17.36	2
3762	12	NC94-7197	90.2 C	87.4 D	87.4 D	62.4	50.1 Q	70.8 Q	9.98 *	53.1	17.27 *	1
3763	13	AP-D94-5282	77.9 F	58.7 F	58.7 F	60.6	53.6 *	67.2 Q	10.44 *	56.1 *	16.15 Q	0
3764	14	GA90524E35	92.5 C	82.4 E	82.4 E	58.7	52.5 *	71.4 *	9.16	54.4	17.09 *	2
3765	15	GA901146E15	83.4 E	68.1 F	68.1 F	60.2	51.8 *	69.0 Q	8.22	59.5 Q	17.11 *	3
3766	16	SC9412192	79.9 F	47.7 F	47.7 F	59.3	56.4	67.4 Q	9.59	62.4 Q	16.31 Q	1
3767	17	HT98-10291	85.2 D	82.6 E	82.6 E	59.2	52.2 *	69.5	10.15 *	53.1	16.95 Q	3
3768	18	HT98-10033	79.4 F	78.3 F	78.3 F	60.2	52.0 *	67.9 Q	10.37 *	53.5	16.81 Q	2
3769	19	XW672	92.3 C	89.0 D	89.0 D	60.3	56.9	70.4 Q	8.66	55.4 *	17.33	4
3770	20	XW674	90.2 C	81.3 E	81.3 E	60.9	57.0	69.8 Q	9.22	54.9 *	16.90 Q	1

MQB-USN
BOTH REGIONS

STD= AVG OF TWO FL 302 ENTRIES

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3771	21	BL940026	102.3 A	104.1 A	102.3 A	58.2 *	56.5	73.3	10.17 *	52.3	17.66	2
3772	22	BL940812	94.6 C	100.9 A	94.6 C	62.9	56.6	70.8 Q	9.67	54.3	17.83	3
3773	23	APD95-7763	85.3 D	84.0 E	84.0 E	61.1	52.7 *	69.2 Q	9.49	53.4	17.03 Q	3
3774	24	APD95*8811-1	89.0 D	67.4 F	67.4 F	60.4	55.3	69.8 Q	9.39	57.5 Q	16.66 Q	1
3775	25	APD95*8811-2	91.0 C	65.1 F	65.1 F	61.3	54.9	70.3 Q	9.50	57.0 Q	16.51 Q	1
3776	26	NC95-25305	77.3 F	68.4 F	68.4 F	59.2	53.7 *	67.2 Q	10.68 *	56.0 *	16.59 Q	1
3777	27	NC95-25707	88.5 D	28.1 F	28.1 F	60.8	42.8 Q	71.8	10.33 *	61.7 Q	15.93 Q	0
3778	28	VA96-54-326	94.3 C	71.6 F	71.6 F	61.4	52.1 *	71.6	10.67 *	54.7 *	16.65 Q	1
3779	29	VA97W-375	81.5 E	79.6 F	79.6 F	60.4	47.8 Q	69.1 Q	10.87 Q	55.0 *	17.25 *	2
3780	30	TX91-13	78.6 F	62.6 F	62.6 F	59.9	49.6 Q	68.1 Q	10.23 *	55.8 *	16.48 Q	2
3781	31	TX87-20	92.1 C	85.6 D	85.6 D	60.1	55.6	70.6 Q	10.77 Q	52.4	16.85 Q	1
3782	32	LA8513B1-7-B-1-4-2	85.6 D	88.7 D	85.6 D	60.1	53.0 *	69.4 Q	9.16	54.3	17.35	2
3783	33	LA90144B16-3-2	86.5 D	68.3 F	68.3 F	59.6	58.2	68.8 Q	8.97	58.8 Q	16.74 Q	1
3784	34	LA90412F14-1-4	93.0 C	90.3 C	90.3 C	63.1	55.9	70.5 Q	9.70	55.8 *	17.49	1
3785	35	LA9070G45-3-3-1	97.3 B	81.9 E	81.9 E	58.7	54.2 *	72.4	9.42	54.3	16.98 Q	2

MQB-USN
BOTH REGIONS

STD= AVG OF TWO FL 302 ENTRIES

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3721	21	BL940026	104.1 A	109.1 A	104.1 A	59.1	60.6	73.0	9.39	52.6	18.07	3
3771	21	BL940026	102.3 A	104.1 A	102.3 A	58.2 *	56.5	73.3	10.17 *	52.3	17.66	2
3706	6	GA89482E7	102.5 A	101.3 A	101.3 A	62.4	58.4	72.6	9.32	54.0	17.66	3
3701	1	FL 302	101.1 A	102.5 A	101.1 A	59.3	59.2	72.4	8.98	53.0	17.55	2
		STANDARD	100.0 A	100.0 A	100.0 A	59.5	57.7	72.4	9.22	53.2	17.53	2
3731	31	TX87-20	98.8 B	98.9 B	98.8 B	61.2	59.3	71.6	9.04	52.3	17.29 *	2
3751	1	FL 302	98.9 B	97.6 B	97.6 B	59.8	56.1	72.3	9.46	53.3	17.50	2
3710	10	FL8868	97.5 B	110.0 A	97.5 B	59.1	61.2	71.2 *	9.29	52.0	17.79	4
3707	7	BL930390	97.2 B	101.1 A	97.2 B	60.7	62.9	70.7 Q	7.65	55.5 *	17.76	5
3734	34	LA90412F14-1-4	97.2 B	96.2 B	96.2 B	62.7	61.5	70.7 Q	9.07	55.5 *	17.53	2
3722	22	BL940812	98.6 B	96.0 B	96.0 B	63.5	59.3	71.4 *	9.25	55.4 *	17.55	2
3712	12	NC94-7197	95.8 B	101.9 A	95.8 B	62.8	53.9 *	71.6 *	9.57	52.2	17.67	4
3702	2	Coker 9835	96.8 B	95.4 B	95.4 B	60.2	63.8	70.6 Q	8.40	56.8 Q	17.66	3
3711	11	AR584A-3-1	94.9 C	99.5 B	94.9 B	61.6	54.4 *	71.4 *	9.73	53.1	17.64	4
3772	22	BL940812	94.6 C	100.9 A	94.6 C	62.9	56.6	70.8 Q	9.67	54.3	17.83	3
3714	14	GA90524E35	93.7 C	97.8 B	93.7 C	58.3 *	57.6	70.9 *	8.57	54.3	17.57	3
3760	10	FL8868	93.5 C	97.4 B	93.5 C	58.6	57.8	70.8 Q	9.86	53.1	17.39	2
3752	2	Coker 9835	95.4 B	92.9 C	92.9 C	60.4	59.6	70.8 Q	9.03	56.0 *	17.47	2
3735	35	LA9070G45-3-3-1	101.1 A	91.0 C	91.0 C	60.6	57.4	72.6	9.12	53.2	17.12 *	2

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3761	11	AR584A-3-1	90.7 C	90.4 C	90.4 C	61.3	51.8 *	70.8 Q	10.17 *	53.3	17.36	2
3784	34	LA90412F14-1-4	93.0 C	90.3 C	90.3 C	63.1	55.9	70.5 Q	9.70	55.8 *	17.49	1
3729	29	VA97W-375	89.6 D	92.1 C	89.6 D	61.6	52.8 *	70.3 Q	9.18	55.7 *	17.70	5
3723	23	APD95-7763	89.5 D	98.2 B	89.5 D	62.0	54.9	69.8 Q	8.72	53.8	17.65	4
3757	7	BL930390	91.4 C	89.3 D	89.3 D	60.2	58.3	70.0 Q	9.42	55.8 *	17.33	2
3718	18	HT98-10033	89.2 D	89.6 D	89.2 D	60.9	54.2 *	70.0 Q	9.02	53.9	17.29 *	3
3732	32	LA8513B1-7-B-1-4-2	89.0 D	102.5 A	89.0 D	60.8	57.2	69.5 Q	9.10	53.3	17.68	4
3769	19	XW672	92.3 C	89.0 D	89.0 D	60.3	56.9	70.4 Q	8.66	55.4 *	17.33	4
3719	19	XW672	93.8 C	88.4 D	88.4 D	61.2	57.9	70.6 Q	8.74	56.2 Q	17.36	4
3717	17	HT98-10291	88.2 D	89.2 D	88.2 D	60.4	53.8 *	69.9 Q	9.32	53.9	17.29 *	4
3754	4	Mason	90.6 C	87.8 D	87.8 D	58.7	59.6	69.7 Q	9.52	54.9 *	17.09 *	2
3762	12	NC94-7197	90.2 C	87.4 D	87.4 D	62.4	50.1 Q	70.8 Q	9.98 *	53.1	17.27 *	1
3756	6	GA89482E7	98.7 B	87.2 D	87.2 D	61.7	56.0	72.1	9.40	54.4	17.16 *	2
3730	30	TX91-13	85.8 D	88.3 D	85.8 D	61.2	54.1 *	69.1 Q	8.99	54.5	17.31	4
3782	32	LA8513B1-7-B-1-4-2	85.6 D	88.7 D	85.6 D	60.1	53.0 *	69.4 Q	9.16	54.3	17.35	2
3781	31	TX87-20	92.1 C	85.6 D	85.6 D	60.1	55.6	70.6 Q	10.77 Q	52.4	16.85 Q	1
3728	28	VA96-54-326	98.4 B	84.7 E	84.7 E	61.8	55.6	72.1	9.91	54.0	17.01 Q	3
3709	9	SC921299	90.0 D	84.1 E	84.1 E	62.0	59.4	69.2 Q	9.60	56.2 Q	17.09 *	2
3773	23	APD95-7763	85.3 D	84.0 E	84.0 E	61.1	52.7 *	69.2 Q	9.49	53.4	17.03 Q	3
3755	5	AR 494B-2-2	92.7 C	83.5 E	83.5 E	61.4	53.2 *	71.0	9.63	54.9 *	17.18 *	3
3705	5	AR 494B-2-2	94.0 C	82.7 E	82.7 E	61.6	55.5	71.0	9.41	54.3	16.96 Q	2
3767	17	HT98-10291	85.2 D	82.6 E	82.6 E	59.2	52.2 *	69.5	10.15 *	53.1	16.95 Q	3
3764	14	GA90524E35	92.5 C	82.4 E	82.4 E	58.7	52.5 *	71.4 *	9.16	54.4	17.09 *	2
3704	4	Mason	94.7 C	82.1 E	82.1 E	59.8	60.9	70.4 Q	9.13	55.1 *	16.82 Q	2
3726	26	NC95-25305	83.8 E	81.9 E	81.9 E	61.1	55.2	68.4 Q	10.08 *	54.8 *	17.00 Q	3

LAB NO.		ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MICRO T.W. LB/BU	SOFT. EQUIV.	FLOUR YIELD	FLOUR PROT.	MICRO AWRC	COOKIE DIAM.	TOP GR.
3785	35	LA9070G45-3-3-1	97.3 B	81.9 E	81.9 E	58.7	54.2 *	72.4	9.42	54.3	16.98 Q	2
3720	20	XW674	94.9 C	81.6 E	81.6 E	61.4	59.5	70.5 Q	9.38	56.2 Q	16.97 Q	2
3770	20	XW674	90.2 C	81.3 E	81.3 E	60.9	57.0	69.8 Q	9.22	54.9 *	16.90 Q	1
3779	29	VA97W-375	81.5 E	79.6 F	79.6 F	60.4	47.8 Q	69.1 Q	10.87 Q	55.0 *	17.25 *	2
3724	24	APD95*8811-1	91.4 C	78.6 F	78.6 F	61.8	56.1	70.1 Q	8.91	56.9 Q	17.07 *	3
3768	18	HT98-10033	79.4 F	78.3 F	78.3 F	60.2	52.0 *	67.9 Q	10.37 *	53.5	16.81 Q	2
3725	25	APD95*8811-2	90.7 C	76.4 F	76.4 F	61.6	56.8	69.9 Q	9.28	57.0 Q	16.95 Q	3
3713	13	AP-D94-5282	83.7 E	76.0 F	76.0 F	61.4	55.2	68.4 Q	9.98 *	56.0 *	16.88 Q	2
3715	15	GA901146E15	86.0 D	72.8 F	72.8 F	60.4	55.5	69.0 Q	7.88	58.7 Q	17.06 Q	3
3703	3	Coker 9663	89.8 D	72.0 F	72.0 F	61.4	51.6 *	70.5 Q	8.62	56.3 Q	16.89 Q	2
3753	3	Coker 9663	86.6 D	71.8 F	71.8 F	61.5	47.3 Q	70.4 Q	9.41	56.3 Q	17.08 *	3
3778	28	VA96-54-326	94.3 C	71.6 F	71.6 F	61.4	52.1 *	71.6	10.67 *	54.7 *	16.65 Q	1
3708	8	SC921285	90.9 C	71.1 F	71.1 F	61.3	60.4	69.4 Q	10.44 *	56.3 Q	16.46 Q	1
3759	9	SC921299	84.0 E	69.7 F	69.7 F	61.6	55.2	68.4 Q	11.24 Q	56.2 Q	16.61 Q	0
3776	26	NC95-25305	77.3 F	68.4 F	68.4 F	59.2	53.7 *	67.2 Q	10.68 *	56.0 *	16.59 Q	1
3783	33	LA90144B16-3-2	86.5 D	68.3 F	68.3 F	59.6	58.2	68.8 Q	8.97	58.8 Q	16.74 Q	1
3765	15	GA901146E15	83.4 E	68.1 F	68.1 F	60.2	51.8 *	69.0 Q	8.22	59.5 Q	17.11 *	3
3774	24	APD95*8811-1	89.0 D	67.4 F	67.4 F	60.4	55.3	69.8 Q	9.39	57.5 Q	16.66 Q	1
3758	8	SC921285	84.1 E	65.5 F	65.5 F	61.7	56.1	68.3 Q	10.86 Q	56.5 Q	16.41 Q	1
3775	25	APD95*8811-2	91.0 C	65.1 F	65.1 F	61.3	54.9	70.3 Q	9.50	57.0 Q	16.51 Q	1
3733	33	LA90144B16-3-2	87.7 D	64.4 F	64.4 F	60.7	59.8	68.7 Q	8.75	59.0 Q	16.51 Q	2
3780	30	TX91-13	78.6 F	62.6 F	62.6 F	59.9	49.6 Q	68.1 Q	10.23 *	55.8 *	16.48 Q	2
3763	13	AP-D94-5282	77.9 F	58.7 F	58.7 F	60.6	53.6 *	67.2 Q	10.44 *	56.1 *	16.15 Q	0
3716	16	SC9412192	77.6 F	52.1 F	52.1 F	60.1	55.9	66.8 Q	9.98 *	60.1 Q	16.25 Q	1
3766	16	SC9412192	79.9 F	47.7 F	47.7 F	59.3	56.4	67.4 Q	9.59	62.4 Q	16.31 Q	1
3777	27	NC95-25707	88.5 D	28.1 F	28.1 F	60.8	42.8 Q	71.8	10.33 *	61.7 Q	15.93 Q	0
3727	27	NC95-25707	94.5 C	27.6 F	27.6 F	62.3	46.5 Q	72.5	9.25	60.1 Q	15.53 Q	0

ADVANCED NURSERY
EVALUATION SUMMARY
1999 CROP

MBQ-USN
BOTH REGIONS

STANDARD DATA	
TEST WT	59.54
S.E	57.67
YIELD	72.38
FL. PROTEIN	9.22
AWRC	53.2
DIAMETER	17.53
TOP GRAIN	2
	70

ADJUSTED L.S.D.	
TEST WT	1.1511
S.E	3.1009
YIELD	0.777
FL. PROTEIN	0.7464
AWRC	1.463
DIAMETER	0.2337

COMBINED QUALITY SCORES	
A	4
B	9
C	7
D	14
E	12
F	24
TOTAL	70

NOTATION BEGINS

TEST WT	58.39	57.24
S.E	54.57	51.46
YIELD	71.61	70.83
FL. PROTEIN	9.97	10.71
AWRC	54.66	56.13
DIAMETER	17.3	17.06

AVERAGED DATA

TEST WT	60.78
S.E	55.54
YIELD	70.24
FL. PROTEIN	9.48
AWRC	55.33
DIAMETER	17.09
TOP GRAIN	2.2571