UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE

and

Cooperating State Agricultural Experiment Stations

2002-2003

UNIFORM WINTER OAT YIELD TRIAL

Final Report

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This is a joint progress report of cooperative investigations underway in the Agricultural Research Service of the U. S. Department of Agriculture and the State Agricultural Experiment Stations 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. This report is primarily a tool for use by cooperators 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 and is not intended for publication and should not be referred to in literature citations or quoted in publicity or advertising. Use of the data may be granted for certain purposes upon written request to the agency or agencies involved.

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The purpose of the Uniform Winter Oat Yield Trial (UWOYT) is to evaluate winter-habit (fall-sown) oat advanced lines for adaptation to those areas in the United States where winter oats are grown commercially. The entries in the 2002-03 UWOYT were submitted by public oat breeding programs in Arkansas, Florida, Louisiana, North Carolina, South Carolina, and Texas. A total of 31 entries (30 hulled and 1 (NC97-8972N) hulless) were included in the trial. There were twelve testing locations for the 2002-03 UWOYT, with one in Alabama (Prattville), Arkansas (Stuttgart), Delaware (Sussex County), Louisiana (Baton Rouge), and North Carolina (Kinston); two in Florida (Marianna and Quincy) and Georgia (Griffin and Plains); and three in Texas (College Station, Dallas, and Uvalde).

Table of Contents

Narrative	2
Entry List	4
Cooperators	5
Yield	6
Test Weight	8
Heading Date	9
Height	10
Lodging	11
Phenotype & Maturity	12
Crown & Stem Rust	13
Loose Smut, BYDV, & Leaf Spot	14
Groat Percentage	15
Groat Protein Percentage	16
Groat β-glucan Percentage	17
Groat Lipid Percentage	18
Groat Flour Falling Number	19

USDA/ARS Uniform Winter Oat Yield Trial 2002-03
Entries

Entry	*Designation*	*Pedigree*	*Source*	*Yrs in Trial*
1	Rodgers	Coker 80-33/NC81-376 (=PI593020)	NC	5
2	TAM-O-397	C75-12/4/Coker227/Coker234/3/TAM-O-301/TAM-O-312//CI9221/5/TAM-O-312/Coker227 (=	NC	5
3	Harrison	C74C70/Florida 502 (=PI590937)	NC	5
4	AR0213-3	C84-16/AR125-4A	AR	1
5	AR0258-4	Ozark/2/NC81-333/PA8017-26	AR	2
6	AR0258-7	Ozark/2/NC81-333/PA8017-26	AR	2
7	AR0336-1	TAM-O-386//C86-13/T81-1251	AR	1
8	FL9701-P30	Horizon 314/Chapman	FL	1
9	FL9708-P10	Coker 92Ab719/Horizon 314	FL	1
10	FL9708-P37	Coker 92Ab719/Horizon 314	FL	2
11	FL9708-P71	Coker 92Ab719/Horizon 314	FL	1
12	FLX506-1-B-X1-Y1	C75-27/76-29/3/76-23//75-28/CI8336/4/76-30*4/76-29	FL	1
13	LA9535D118-4	T91AB2965/5/C88D1547Seln:85-13/4/84-15/3/81-21//79-22*2/Omega	LA	2
14	LA966IBI-151-1	FL9595MEO29/TX93M2107	LA	2
15	LA966BIB119-1	FL9595MEO29/TX93M2107	LA	1
16	LA976GBI-22-B-12	FL92OHR26763/TX93M2107	LA	1
17	LA982IBI-26	833/TAM-O-397	LA	1
18	LA989IBI-49-B-11	90117C3-1-2/TX93AB663	LA	1
19	LA9810IBI-58	90120C2-3-AB1/TX93M1558	LA	1
20	NC97-8972N	Bulk Selection	NC	3
21	NC99-3802	L409-3/Coker 716//NC87-80	NC	1
22	NC99-3806	L409-3/Coker 716//NC87-80	NC	1
23	NC99-3835	P79103/NCO156//NC88-1809	NC	1
24	SC941348	C84-15/85 SA(TX)15	SC	5
25	SC961246	C75-28/TAM-O-312//Coker234/CMB10/3/C76-30*4/C76-29/4/Omega	SC	3
26	SC96R036	C86Five(C86-13/5/C84-15*2/4/C81-21/3/C79-21//C234/6/Omega)	SC	1
27	TX83Ab2923	C75-12/CI9221//TAM-O-312/Coker227	TX	3
28	TX97Ab1581	Australian dwarf/TAM-O-386 ERB	TX	2
29	TX00D276	C81-32//76-30*4/76-29	TX	1
30	TX00D291	TAM-O-386 selection	TX	1
31	TX01CSRH sel 1	unknown	TX	1

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GRAIN YELD

Entry	Designation	BRouge LA bu/ac	rank	Newton MS bu/ac	rank	Kinston NC bu/ac	rank	ColStn TX bu/ac	rank	Dallas TX bu/ac	rank	Uvalde TX bu/ac	rank	Warsaw VA bu/ac	rank	14-loc mean bu/ac	rank
1	Rodgers	101.9	21	123.2	4	141.9	7	75.2	26	102.9	8	83.3	25	144.0	5	94.7	17
2	TAM-O-397	94.4	25	86.8	30	95.6	28	109.7	16	108.6	2	117.0	16	107.9	30	87.1	27
3	Harrison	107.8	16	108.2	16	164.3	2	113.8	14	108.0	3	135.0	12	138.7	10	101.2	9
4	AR0213-3	90.8	29	114.3	9	124.7	18	59.3	29	92.1	21	69.1	29	152.9	3	88.5	24
5	AR0258-4	100.6	22	88.1	28	115.8	20	71.0	28	94.5	19	76.0	27	139.2	9	85.7	29
6	AR0258-7	99.2	24	113.6	11	159.3	3	83.2	25	101.6	12	97.6	20	140.0	7	98.5	11
7	AR0336-1	92.9	26	123.8	3	122.0	19	72.3	27	102.1	11	70.4	28	131.9	18	91.2	22
8	FL9701-P30	92.3	28	125.1	2	154.6	4	126.0	5	110.5	1	155.9	5	137.4	13	106.9	3
9	FL9708-P10	117.8	9	113.2	12	132.0	14	105.8	19	104.2	4	161.2	3	144.2	4	102.4	6
10	FL9708-P37	116.1	11	120.9	5	137.7	9	116.3	12	100.0	13	158.3	4	128.0	23	103.9	4
11	FL9708-P71	100.1	23	87.4	29	55.3	31	93.6	22	82.4	28	139.8	10	133.1	16	83.4	30
12	FLX506-1-B-	116.6	10	114.2	10	136.9	11	117.9	10	104.1	6	134.4	13	138.3	11	96.3	16
13	LA9535D118	128.1	6	83.3	31	104.9	24	117.8	11	96.8	17	152.3	8	115.7	27	92.7	19
14	LA966IBI-15	145.8	2	101	22	129.2	16	133.6	3	103.3	7	153.0	7	143.2	6	107.6	2
15	LA966BIB11	154.8	1	107.3	18	103.2	25	136.1	2	88.7	23	170.3	1	126.7	25	103.2	5
16	LA976GBI-2	134.7	5	94.4	24	97.7	26	144.3	1	87.1	26	168.5	2	129.9	21	102.3	7
17	LA982IBI-26	144.0	3	103.8	21	84.8	29	122.1	7	82.9	27	118.7	15	130.9	20	93.7	18
18	LA989IBI-49	121.1	8	108.9	15	130.8	15	122.3	6	87.8	25	91.9	21	114.7	28	98.3	13
19	LA9810IBI-5	124.1	7	107.6	17	147.3	5	109.6	17	90.6	22	141.0	9	121.1	26	98.5	12
20	NC97-8972N	39.1	31	93.9	25	112.4	22	53.0	31	66.8	31	46.6	31	99.7	31	62.8	31
21	NC99-3802	111.3	13	109.3	14	137.4	10	92.3	23	102.8	9	83.4	24	156.6	1	97.3	15
22	NC99-3806	103.8	17	100.8	23	125.5	17	91.8	24	94.2	20	79.6	26	139.8	8	86.7	28
23	NC99-3835	74.0	30	112.9	13	140.2	8	59.1	30	104.2	5	55.0	30	136.0	14	88.3	25
24	SC941348	92.5	27	119.8	6	114.4	21	96.4	21	88.1	24	91.2	22	138.3	12	91.5	20
25	SC961246	140.8	4	143.2	1	170.0	1	102.1	20	102.7	10	101.1	18	154.2	2	110.0	1
26	SC96R036	109.4	15	118.5	8	143.5	6	106.0	18	97.4	16	118.8	14	136.0	15	101.3	8
27	TX83Ab2923	103.7	18	88.6	27	96.2	27	116.0	13	82.2	29	98.8	19	111.0	29	87.3	26
28	TX97Ab1581	102.0	20	105.3	19	134.3	13	121.6	8	96.3	18	136.3	11	132.1	17	97.9	14
29	TX00D276	112.2	12	105.2	20	107.8	23	110.1	15	99.9	15	116.9	17	131.6	19	90.9	23
30	TX00D291	111.2	14	118.7	7	136.6	12	133.0	4	100.0	14	86.3	23	127.1	24	100.7	10
31	TX01CSRH s	102.6	19	89.4	26	80.4	30	121.5	9	80.7	30	153.1	6	128.4	22	91.4	21
	Mean	109.2		107.4		123.8		104.3		95.6		114.9		132.70		94.9	
	LSD (5%)	11.0		18.3		18.6		5.8		20.1		9.7		7.11		11.8	
	CV (%)	16.2		22.3		45.9		9.8		10.4		18.4		12.86		16.6	

TEST WEIGHT

Entry	Designation	Prtvil AL lb/bu	Stutgrt AR lb/bu	Sussex DE lb/bu	Quincy FL lb/bu	Mranna FL lb/bu	Griffin GA lb/bu	Plains GA lb/bu	BRouge LA lb/bu	Kinston NC lb/bu	ColStn TX lb/bu	Dallas TX lb/bu	Uvalde TX lb/bu	Warsaw VA lb/bu	13-location mean lb/bu	rank
1	Rodgers	31.4	35.0	34.8	28.2	31.0	32	35	28.2	36.4	24.5	37.2	22.5	34.4	31.6	24
2	TAM-O-397	29.0	32.2	29.8	28.2	29.4	32	28	30.9	35.6	28.0	37.8	28.0	31.9	30.8	27
3	Harrison	34.0	36.5	32.6	34.6	33.6	33	32	34.4	39.7	30.0	39.6	30.5	36.5	34.4	3
4	AR0213-3	29.4	33.1	31.4	30.7	28.5	31	27	24.0	33.4	21.5	34.4	17.0	33.8	28.8	31
5	AR0258-4	34.5	36.4	36.1	33.3	34.2	36	28	33.3	39.4	28.0	39.6	26.0	36.5	33.9	9
6	AR0258-7	34.8	37.3	35.9	32.0	33.6	30	30	33.3	39.4	28.5	38.2	28.0	37.2	33.8	10
7	AR0336-1	32.8	35.9	34.6	33.3	33.3	34	30	30.9	39.0	28.0	39.5	29.0	35.6	33.5	12
8	FL9701-P30	29.4	33.4	30.3	26.9	26.3	30	27	28.0	35.9	25.0	34.0	29.0	33.7	30.0	30
9	FL9708-P10	33.6	36.5	33.0	34.6	34.2	35	31	32.6	39.7	29.0	38.5	32.0	36.9	34.2	6
10	FL9708-P37	33.7	36.5	32.4	32.0	34.2	29	32	35.1	38.5	29.5	39.7	35.0	36.5	34.0	7
11	FL9708-P71	33.3	35.6	33.7	32.0	33.6	37	32	33.2	40.1	27.5	38.6	32.5	37.0	34.3	5
12	FLX506-1-B-1	31.7	34.6	33.6	30.7	29.4	33	30	32.5	37.2	29.5	39.1	30.5	32.9	32.7	17
13	LA9535D118-	nd*	33.3	31.0	30.7	33.9	32	28	32.9	36.9	28.5	38.9	30.0	32.9	32.3	21
14	LA966IBI-151	31.6	35.4	29.8	32.0	33.3	33	31	33.1	37.5	31.0	38.5	31.5	34.8	33.3	14
15	LA966BIB119	32.5	34.8	32.9	32.0	32.6	33	31	34.6	36.9	31.0	36.6	32.0	34.4	33.4	13
16	LA976GBI-22	31.6	36.0	35.0	33.3	33.9	33	30	35.5	35.5	31.5	36.9	34.0	35.5	34.0	8
17	LA982IBI-26	30.9	35.0	32.9	29.4	32.0	34	28	31.9	37.0	28.5	36.9	30.0	35.4	32.4	20
18	LA989IBI-49-	34.1	35.6	32.2	34.6	34.6	35	34	34.9	38.6	31.0	38.1	30.0	34.6	34.4	4
19	LA9810IBI-58	34.6	36.1	34.5	33.3	34.6	34	32	36.0	39.2	31.0	39.5	36.0	36.4	35.2	2
20	NC97-8972N	37.3	36.9	nd	33.3	nd	41	33	33.7	46.5	31.5	48.9	32.0	43.3	37.9	1
21	NC99-3802	31.7	35.5	34.7	34.6	32.3	34	28	31.3	38.3	23.5	36.0	25.5	36.8	32.5	19
22	NC99-3806	30.5	36.3	31.8	33.3	33.0	32	30	32.9	37.1	24.0	37.1	26.0	35.2	32.2	23
23	NC99-3835	31.6	34.7	33.6	30.7	31.0	32	29	26.8	35.1	22.0	34.9	24.0	34.0	30.7	29
24	SC941348	34.0	36.7	32.8	33.3	31.0	35	29	32.5	38.1	25.0	37.1	27.0	34.4	32.8	16
25	SC961246	31.9	33.5	33.5	30.7	30.4	33	28	29.8	37.6	21.0	33.6	27.0	34.4	31.1	26
26	SC96R036	32.1	32.9	32.8	30.7	30.4	32	29	31.2	36.7	26.0	34.9	28.0	33.4	31.5	25
27	TX83Ab2923	28.4	34.5	32.0	33.3	33.3	34	29	32.1	37.1	31.0	36.4	27.0	35.5	32.6	18
28	TX97Ab1581	29.4	34.1	31.5	30.7	29.8	28	30	29.2	35.6	27.0	35.2	28.0	31.6	30.8	28
29	TX00D276	33.1	34.9	32.4	34.6	33.3	32	32	35.1	37.2	28.0	37.7	29.5	33.7	33.3	15
30	TX00D291	31.7	35.6	30.4	34.6	34.2	32	32	34.7	37.4	33.0	40.2	29.0	33.4	33.7	11
31	TX01CSRH s	28.8	36.6	30.9	32.0	31.0	32	27	32.5	35.8	31.0	36.7	33.0	33.3	32.3	22
	Mean	32.1	35.2	32.8	32.1	32.5	33.1	30.1	32.1	37.4	28.0	37.8	28.9	35.0	32.9	
	LSD (5%)		3.1						2.0	2.8				1.7	1.5	
	CV (%)		1.8						1.1	2.1				0.8	5.8	

*nd = no data reported.

HEADING DATE (JULIAN)

Entry	Designation	Prtvlle AL	Stutgrt AR	Sussex DE	Quincy FL	Mranna FL	Griffin GA	Plains GA	BRouge LA	Kinston NC	ColStn TX	Uvalde TX	Warsaw VA	2-location mean	rank
1	Rodgers	110	111	133	92	98	109	106	101	112	102	102	123.0	108.2	16
2	TAM-O-397	106	110	132	85	97	105	101	91	106	93	86	122.0	102.8	1
3	Harrison	110	110	134	90	98	110	105	101	111	99	94	123.3	107.1	12
4	AR0213-3	113	116	138	97	100	113	111	105	117	114	111	127.7	113.6	31
5	AR0258-4	112	115	136	96	99	112	110	105	116	112	109	96.3	109.9	26
6	AR0258-7	111	114	137	96	101	111	110	106	114	110	99	127.7	111.4	29
7	AR0336-1	113	114	137	96	101	113	109	107	116	109	105	128.0	112.3	30
8	FL9701-P30	108	112	133	90	99	106	104	99	107	95	89	123.7	105.4	6
9	FL9708-P10	109	112	134	91	97	110	105	99	113	105	93	125.0	107.6	14
10	FL9708-P37	109	113	135	91	97	110	105	98	112	107	93	124.3	108.2	17
11	FL9708-P71	111	112	135	95	99	111	108	102	117	105	94	127.0	109.7	24
12	FLX506-1-B-X	113	114	137	96	105	109	106	102	113	102	90	127.0	109.5	22
13	LA9535D118-	107	111	136	94	104	108	108	103	116	105	99	126.7	109.8	25
14	LA966IBI-151	106	109	132	87	98	106	101	95	110	103	93	123.0	105.2	5
15	LA966BIB119	108	111	131	89	99	106	106	99	112	102	90	125.3	106.5	10
16	LA976GBI-22	107	110	133	88	100	106	106	100	113	100	90	123.7	106.4	9
17	LA982IBI-26	111	111	135	92	101	110	107	105	115	107	93	126.0	109.6	23
18	LA989IBI-49-	109	114	134	91	98	109	104	100	116	105	94	127.7	110.0	27
19	LA9810IBI-58	109	112	134	88	99	108	105	101	109	107	90	126.0	107.3	13
20	NC97-8972N	109	113	135	90	100	109	106	100	110	105	95	123.0	107.9	15
21	NC99-3802	111	110	133	88	101	108	109	100	110	107	99	124.3	108.4	19
22	NC99-3806	106	110	129	88	93	106	103	96	109	96	92	122.3	104.2	2
23	NC99-3835	112	110	132	91	101	109	111	105	108	108	99	123.0	109.1	21
24	SC941348	106	110	132	91	99	106	104	98	107	99	88	126.0	105.5	7
25	SC961246	110	111	133	93	99	110	106	101	112	107	99	124.0	108.7	20
26	SC96R036	110	114	134	96	100	109	109	102	116	109	94	127.7	110.0	28
27	TX83Ab2923	110	111	138	89	100	110	106	102	113	101	92	127.0	108.2	18
28	TX97Ab1581	108	112	132	88	98	106	105	100	110	107	94	122.7	106.9	11
29	TX00D276	108	110	132	89	96	106	105	98	114	99	93	125.3	106.3	8
30	TX00D291	106	110	132	86	97	105	101	98	108	96	89	124.0	104.3	3
31	TX01CSRH se	108	109	135	85	97	109	101	96	111	97	83	126.0	104.7	4
	Mean	109.2	111.6	133.1	91.0	100.1	108.4	105.8	101.7	111.8	103.3	94.5	124.1	107.9	
	LSD (5%)								1.0				3.9	3.1	
	CV (%)								2.0				6.6	3.6	

HEIGHT

Entry	Designation	Prattville AL in.	Stuttgart AR in.	Sussex DE in.	Quincy FL in.	Plains GA in.	BRouge LA in.	Kinston NC in.	ColStn TX in.	Dallas TX in.	Uvalde TX in.	Warsaw VA in.	11-location mean in.	rank
1	Rodgers	48	37	38.0	53	42	50	43	39	33	45	40.3	43.0	26
2	TAM-O-397	46	35	34.7	51	47	47	40	37	31	45	35.7	41.3	17
3	Harrison	49	36	39.3	56	46	51	45	38	38	45	36.7	44.1	30
4	AR0213-3	43	31	31.0	46	42	39	39	31	27	37	33.3	36.7	4
5	AR0258-4	47	30	32.7	44	47	42	40	30	29	39	33.0	38.0	7
6	AR0258-7	40	29	29.7	43	40	38	39	27	25	33	28.7	35.0	1
7	AR0336-1	47	36	37.0	50	48	43	43	33	33	45	38.3	41.6	18
8	FL9701-P30	42	34	30.7	47	40	41	44	36	31	41	32.7	39.1	10
9	FL9708-P10	50	36	38.3	55	45	47	46	36	31	42	39.3	42.7	25
10	FL9708-P37	46	32	34.3	50	39	39	42	32	31	41	32.3	39.0	9
11	FL9708-P71	52	36	40.3	53	47	51	48	42	36	49	40.0	45.4	31
12	FLX506-1-B-X1	46	34	35.7	53	46	47	46	37	36	44	39.0	42.6	23
13	LA9535D118-4	43	34	36.5	53	43	51	46	37	29	50	37.3	42.2	19
14	LA966IBI-151-1	46	33	35.0	53	48	49	45	39	34	48	38.3	43.0	27
15	LA966BIB119-1	43	36	37.0	52	46	50	41	42	30	49	37.3	42.6	24
16	LA976GBI-22-E	45	32	35.3	51	48	47	44	43	30	49	36.7	42.3	20
17	LA982IBI-26	44	35	35.0	51	49	50	45	45	30	43	39.0	42.3	21
18	LA989IBI-49-B	45	34	31.0	47	48	41	44	37	27	38	33.7	39.1	11
19	LA9810IBI-58	45	35	37.7	51	48	45	43	39	31	47	39.0	42.3	22
20	NC97-8972N	44	35	36.7	51	49	43	47	36	31	40	34.3	41.1	15
21	NC99-3802	47	30	35.3	50	49	44	43	34	32	41	36.0	40.6	14
22	NC99-3806	43	33	32.0	49	46	47	42	34	27	40	36.0	39.4	12
23	NC99-3835	45	32	31.3	51	44	44	39	39	31	39	33.0	39.4	13
24	SC941348	48	34	35.0	49	47	46	44	38	30	41	36.3	41.2	16
25	SC961246	43	29	29.7	44	43	42	40	31	25	38	30.0	36.3	2
26	SC96R036	43	31	35.0	46	47	41	38	32	30	41	33.3	38.4	8
27	TX83Ab2923	45	37	40.7	51	48	52	45	38	33	52	40.0	43.6	29
28	TX97Ab1581	41	32	29.0	43	49	40	37	32	31	41	32.7	37.5	6
29	TX00D276	41	28	25.7	47	40	39	39	32	31	40	30.0	36.5	3
30	TX00D291	50	33	35.7	50	48	50	44	42	34	45	37.7	43.1	28
31	TX01CSRH sel	39	31	26.3	49	42	42	34	34	27	45	31.3	36.9	5
	Mean	45.0	33.2	34.2	49.6	45.3	44.9	42.6	36.4	31.0	43.3	35.3	40.5	
	LSD (5%)						4.0					5.0	2.2	
	CV (%)						2.0					2.4	6.3	

LODGING

Entry	Designation	Prtvlle AL 0-9	Sttgart AR 0-9	Sussex DE 0-9	Quincy FL 0-9	Griffin GA 0-9	Plains GA 0-9	ColStn TX 0-9	Dallas TX 0-9	Uvalde TX 0-9	9-location mean 0-9	rank	Warsaw VA 0.2-10
1	Rodgers	4	1	3.7	5.0	2	9	3.5	1.8	9.0	4.2	29	1.2
2	TAM-O-397	0	0	1.0	2.3	0	0	3.0	0.0	7.0	1.5	9	0.2
3	Harrison	2	1	2.0	1.7	1	8	0.5	0.0	1.0	1.9	13	0.2
4	AR0213-3	1	0	1.0	2.3	1	9	2.0	0.0	5.0	2.4	16	0.2
5	AR0258-4	0	0	3.7	1.7	0	2	0.0	0.0	1.0	0.9	2	0.2
6	AR0258-7	4	1	1.3	3.0	1	3	0.0	0.0	0.0	1.5	8	0.2
7	AR0336-1	1	0	2.3	1.7	1	1	2.0	0.0	6.0	1.7	12	0.2
8	FL9701-P30	2	0	1.3	2.7	1	3	0.5	3.6	1.5	1.6	10	0.2
9	FL9708-P10	1	0	1.7	1.0	2	9	0.0	0.0	0.5	1.7	11	0.2
10	FL9708-P37	3	1	1.3	4.3	1	5	0.0	3.6	0.0	2.0	15	0.2
11	FL9708-P71	4	5	2.7	3.7	3	7	3.5	5.4	0.5	3.6	23	2.4
12	FLX506-1-B-X	0	0	2.0	1.3	0	6	0.0	0.0	0.5	1.1	5	0.2
13	LA9535D118-4	5	4	3.0	5.3	2	8	2.0	3.6	5.0	4.0	27	0.2
14	LA966IBI-151	2	0	1.7	3.3	0	3	0.5	1.8	0.0	1.3	7	0.9
15	LA966BIB119	6	3	5.0	5.7	1	9	1.0	3.6	2.0	3.9	26	0.7
16	LA976GBI-22-	8	4	2.0	6.0	3	9	2.0	5.4	0.0	4.1	28	0.2
17	LA982IBI-26	4	2	1.7	6.3	0	9	7.5	3.6	1.0	3.7	24	0.2
18	LA989IBI-49-1	0	0	1.0	2.0	0	0	0.0	3.6	0.5	0.6	1	0.2
19	LA9810IBI-58	5	1	2.0	2.7	1	2	1.0	5.4	0.5	2.0	14	0.6
20	NC97-8972N	1	0	2.7	2.3	0	2	6.5	3.6	9.0	2.8	17	0.2
21	NC99-3802	5	5	3.7	4.3	0	9	2.0	1.8	5.5	3.9	25	0.2
22	NC99-3806	9	5	3.0	5.7	1	9	3.0	5.4	9.0	5.3	31	0.4
23	NC99-3835	2	2	1.3	2.7	1	9	8.0	0.0	0.5	2.9	18	0.2
24	SC941348	3	2	2.0	3.0	0	8	8.5	5.4	0.5	3.3	21	0.2
25	SC961246	1	0	2.0	1.7	0	4	0.0	0.0	0.0	1.0	4	0.2
26	SC96R036	2	2	1.7	2.3	1	1	8.5	7.2	5.0	3.1	20	0.2
27	TX83Ab2923	5	5	4.3	5.7	4	7	5.0	7.2	7.5	5.3	30	1.9
28	TX97Ab1581	1	0	1.7	1.3	0	1	0.0	3.6	2.0	1.0	3	0.2
29	TX00D276	7	1	1.0	3.0	4	9	0.0	3.6	1.0	3.1	19	0.2
30	TX00D291	3	1	1.3	2.0	0	4	0.0	0.0	0.0	1.3	6	0.2
31	TX01CSRH se	5	6	1.3	3.7	2	6	3.0	3.6	3.0	3.6	22	0.2
	Mean	3.1	1.7	2.1	3.1	1.0	5.4	2.4	1.4	2.8	3.2		0.4
	LSD (5%)		4.0								2.1		154.8
	CV (%)		1.0								10.7		0.9

Entry	Designation	Phenotype* Baton Rouge LA 0-9	Maturity Stuttgart AR Julian date
1	Rodgers	4.5	135
2	TAM-O-397	4.5	137
3	Harrison	3.5	134
4	AR0213-3	5.0	136
5	AR0258-4	4.3	135
6	AR0258-7	3.8	135
7	AR0336-1	5.0	134
8	FL9701-P30	3.8	137
9	FL9708-P10	4.0	137
10	FL9708-P37	4.3	133
11	FL9708-P71	3.0	132
12	FLX506-1-B-X1-Y1	4.0	134
13	LA9535D118-4	3.5	135
14	LA966IBI-151-1	3.0	137
15	LA966BIB119-1	2.8	137
16	LA976GBI-22-B-12	3.8	134
17	LA982IBI-26	3.3	137
18	LA989IBI-49-B-11	4.5	134
19	LA9810IBI-58	3.3	134
20	NC97-8972N	5.0	136
21	NC99-3802	4.5	134
22	NC99-3806	4.5	133
23	NC99-3835	5.3	131
24	SC941348	4.8	135
25	SC961246	3.3	137
26	SC96R036	3.8	137
27	TX83Ab2923	3.3	136
28	TX97Ab1581	5.8	133
29	TX00D276	4.3	136
30	TX00D291	3.3	131
31	TX01CSRH sel 1	3.5	132
	Mean	4	134.8
	LSD (5%)	15	
	CV (%)	1	

*Overall plant type determined by S. Harrison (0=best; 9=worst).

		CROWN RUST							STEM RUST			
		Prtvill	*Quincy*	*BRouge*	*ColStn*	*Uvalde*	*5-location*		*BRouge*	*ColStn*	*Uvalde*	
		AL	*FL*	*LA*	*TX*	*TX*	*mean*		*LA*	*TX*	*TX*	
Entry	*Designation*	*%*	*%*	*%*	*%*	*%*	*%*	*rank*	*0-9*	*%*	*%*	
1	Rodgers	1	30	20	70	90	38.2	19	3.5	30	nd*	
2	TAM-O-397	0	0	2	40	60	20.0	13	0.0	10	10	
3	Harrison	1	40	3	5	10	11.8	9	2.0	70	100	
4	AR0213-3	0	70	55	80	80	48.6	26	1.5	0	30	
5	AR0258-4	0	45	23	80	70	39.0	20	2.5	0	20	
6	AR0258-7	0	40	10	60	60	32.0	18	2.0	0	10	
7	AR0336-1	1	25	10	80	100	41.2	22	2.0	50	10	
8	FL9701-P30	0	35	0	5	20	15.6	10	1.5	0	70	
9	FL9708-P10	0	0	0	5	10	3.0	3	1.5	0	80	
10	FL9708-P37	0	0	0	5	10	3.6	5	0.0	0	3	
11	FL9708-P71	1	70	2	10	30	22.2	14	0.0	0	20	
12	FLX506-1-B-1	0	0	3	10	20	7.0	7	3.5	50	100	
13	LA9535D118-	1	0	0	0	0	5.8	6	0.0	0	10	
14	LA966IBI-151	0	0	0	0	0	0.0	1	0.0	0	3	
15	LA966BIB119	1	0	0	0	0	3.2	4	0.0	0	3	
16	LA976GBI-22	0	0	0	0	10	2.6	2	0.0	0	20	
17	LA982IBI-26	0	0	3	30	60	20.0	12	0.0	0	0	
18	LA989IBI-49-	0	10	18	50	80	28.8	16	0.0	0	0	
19	LA9810IBI-58	0	0	0	50	0	10.0	8	1.5	0	90	
20	NC97-8972N	2	85	80	100	100	58.0	31	3.0	0	3	
21	NC99-3802	1	20	28	85	100	45.2	24	2.5	0	20	
22	NC99-3806	0	20	10	100	100	48.6	25	5.5	0	20	
23	NC99-3835	3	60	68	100	100	53.0	30	0.0	0	30	
24	SC941348	2	80	20	90	80	52.4	29	0.5	0	30	
25	SC961246	1	65	13	70	70	41.6	23	0.5	0	20	
26	SC96R036	1	45	15	70	80	41.2	21	1.0	0	20	
27	TX83Ab2923	0	5	4	50	70	29.0	17	0.5	0	0	
28	TX97Ab1581	0	40	3	40	60	28.0	15	1.0	0	70	
29	TX00D276	0	50	5	70	70	49.0	27	0.0	0	3	
30	TX00D291	0	0	0	80	100	49.6	28	3.5	0	nd	
31	TX01CSRH s	0	0	0	0	0	16.0	11	0.0	0	0	
	Mean	0.5	26.9	12	46.3	52.9	27.9		1.3	6.8	27.4	
	LSD (5%)			63			40.2		70			
	CV (%)			13			24.5		1.5			

* nd=no data reported.

LOOSE SMUT, BYDV, & LEAF SPOT

Entry	Designation	*Loose Smut* *Prattville* *AL* *%*	*BYDV* *Prattville* *AL* *0-9*	*Leaf spot* *Prattville* *AL* *0-9*
1	Rodgers	0	6	5
2	TAM-O-397	0	7	6
3	Harrison	0	5	4
4	AR0213-3	1	2	4
5	AR0258-4	10	3	5
6	AR0258-7	20	5	4
7	AR0336-1	0	5	5
8	FL9701-P30	0	6	4
9	FL9708-P10	0	5	4
10	FL9708-P37	0	5	4
11	FL9708-P71	0	3	3
12	FLX506-1-B-X1-Y1	0	5	5
13	LA9535D118-4	0	5	5
14	LA966IBI-151-1	0	6	4
15	LA966BIB119-1	0	6	4
16	LA976GBI-22-B-12	0	5	5
17	LA982IBI-26	0	4	4
18	LA989IBI-49-B-11	0	4	5
19	LA9810IBI-58	0	5	5
20	NC97-8972N	0	6	5
21	NC99-3802	0	6	5
22	NC99-3806	0	7	5
23	NC99-3835	0	4	4
24	SC941348	10	2	4
25	SC961246	1	5	3
26	SC96R036	1	3	4
27	TX83Ab2923	0	6	4
28	TX97Ab1581	1	6	5
29	TX00D276	20	8	6
30	TX00D291	0	6	5
31	TX01CSRH sel 1	0	9	7
	Mean	2.1	5.2	4.6

GROAT PERCENT

Entry	Designation	Plains GA 0-9	Sttgart AR 0-9	BRouge LA 0-9	Florence SC 0-9	Griffin GA 0-9	Clemsn SC 0-9	Warsaw VA 0-9	Prattvll AL 0-9	Uvalde TX 0-9	9-location mean 0-9	rank
1	Rodgers	71.0	67.0	67.0	68.7	63.6	68.1	73.8	71.0	59.5	67.8	9
2	TAM-O-397	63.7	68.7	67.7	56.3	56.8	70.5	70.6	53.7	66.0	63.8	26
3	Harrison	68.1	60.7	68.5	67.5	64.1	76.5	75.2	70.3	62.6	68.2	8
4	AR0213-3	52.6	73.7	66.7	67.3	61.2	73.2	72.8	65.7	48.0	64.6	25
5	AR0258-4	59.3	75.6	71.2	67.7	66.1	74.3	74.0	68.3	57.9	68.3	6
6	AR0258-7	59.1	72.3	60.0	64.9	61.6	70.8	71.4	66.9	57.6	65.0	21
7	AR0336-1	58.0	73.9	55.5	68.0	63.6	72.1	74.1	68.5	58.5	65.8	18
8	FL9701-P30	61.4	72.4	55.9	64.0	51.8	68.4	72.0	60.8	61.3	63.1	29
9	FL9708-P10	65.3	72.1	57.9	64.9	63.7	70.7	72.9	64.7	67.5	66.6	14
10	FL9708-P37	68.4	73.6	66.0	67.3	62.8	72.7	73.8	64.0	69.8	68.3	7
11	FL9708-P71	69.8	74.1	64.8	69.3	64.3	76.1	77.2	69.0	71.6	70.7	3
12	FLX506-1-B-X1	62.7	72.2	57.2	64.7	57.8	70.4	70.3	61.1	67.4	64.9	23
13	LA9535D118-4	62.9	73.4	62.4	65.1	59.1	72.2	72.4	nd	66.5	66.7	13
14	LA966IBI-151-1	66.6	70.5	63.9	65.2	64.6	69.8	72.4	64.0	70.1	67.5	10
15	LA966BIB119-1	65.1	70.8	60.8	62.9	62.4	69.0	72.8	67.8	66.7	66.5	15
16	LA976GBI-22-E	63.2	72.8	61.9	67.2	62.8	71.2	73.0	65.1	67.9	67.2	12
17	LA982IBI-26	59.9	73.4	56.5	63.2	60.4	70.8	71.2	63.7	64.8	64.9	24
18	LA989IBI-49-B	71.9	76.5	67.8	71.0	69.4	75.2	76.8	70.8	70.8	72.3	2
19	LA9810IBI-58	63.7	71.5	59.5	64.3	58.9	69.1	70.6	62.9	69.1	65.5	20
20	NC97-8972N	76.5	85.3	81.8	75.6	nd	79.9	89.3	78.1	83.3	81.2	1
21	NC99-3802	61.8	70.9	53.9	65.5	61.9	63.7	71.2	66.1	54.0	63.2	28
22	NC99-3806	62.1	70.2	54.2	61.7	61.7	67.0	71.4	61.3	54.5	62.7	30
23	NC99-3835	58.4	71.4	40.2	64.6	58.7	69.3	72.1	65.9	52.6	61.5	31
24	SC941348	64.6	74.8	53.6	71.9	61.9	70.6	74.0	72.3	62.8	67.4	11
25	SC961246	60.6	71.0	53.9	65.0	57.8	70.5	72.3	63.2	55.4	63.3	27
26	SC96R036	65.8	72.9	55.4	65.7	59.1	70.2	72.7	68.3	63.7	66.0	17
27	TX83Ab2923	65.3	73.0	53.7	64.9	63.7	72.7	71.9	65.8	63.3	66.1	16
28	TX97Ab1581	63.7	73.9	56.7	66.6	57.9	68.6	70.6	65.3	68.1	65.7	19
29	TX00D276	68.0	75.1	64.1	73.1	66.4	74.6	72.9	69.9	70.0	70.5	4
30	TX00D291	68.3	74.0	61.4	66.8	65.6	71.3	76.0	69.3	64.2	68.6	5
31	TX01CSRH sel	64.4	70.9	57.5	63.9	60.1	69.1	69.8	62.3	67.2	65.0	22
	Mean	64.1	72.8	60.6	66.3	62.1	71.3	73.3	66.2	64.0	66.7	
	LSD (5%)										3.3	
	CV (%)										5.3	

GROAT PROTEIN PERCENT

Entry	Designation	AL-GA %	AR-LA-TX %	NC-SC-VA %	Avg %	Rank
1	Rodgers	16.74	14.50	18.24	16.49	25
2	TAM-O-397	17.06	17.69	18.24	17.66	9
3	Harrison	15.99	13.88	17.71	15.86	28
4	AR0213-3	14.73	15.75	16.96	15.81	29
5	AR0258-4	17.95	16.18	20.55	18.23	6
6	AR0258-7	19.39	16.08	20.23	18.57	4
7	AR0336-1	15.33	14.38	15.91	15.21	31
8	FL9701-P30	16.96	16.45	16.34	16.58	23
9	FL9708-P10	17.38	13.87	17.65	16.30	26
10	FL9708-P37	16.92	17.34	19.06	17.77	8
11	FL9708-P71	17.05	17.89	17.70	17.55	10
12	FLX506-1-B-X1-Y1	18.40	18.50	18.90	18.60	3
13	LA9535D118-4	16.26	15.84	18.24	16.78	21
14	LA966IBI-151-1	16.71	16.31	18.81	17.27	13
15	LA966BIB119-1	16.63	16.60	17.53	16.92	19
16	LA976GBI-22-B-12	16.06	14.73	17.47	16.09	27
17	LA982IBI-26	17.96	15.30	18.69	17.32	11
18	LA989IBI-49-B-11	17.03	14.81	18.83	16.89	20
19	LA9810IBI-58	17.70	15.88	18.10	17.23	14
20	NC97-8972N	18.16	15.45	18.27	17.29	12
21	NC99-3802	19.59	16.14	21.04	18.92	2
22	NC99-3806	20.14	14.57	23.20	19.30	1
23	NC99-3835	18.77	16.45	18.13	17.78	7
24	SC941348	14.54	13.23	17.91	15.23	30
25	SC961246	16.24	16.07	18.99	17.10	16
26	SC96R036	15.81	16.88	16.99	16.56	24
27	TX83Ab2923	17.98	15.79	17.93	17.23	15
28	TX97Ab1581	16.80	16.02	18.13	16.98	17
29	TX00D276	16.32	16.64	17.91	16.96	18
30	TX00D291	17.34	14.96	17.84	16.71	22
31	TX01CSRH sel 1	17.85	18.08	18.96	18.29	5
	Mean	17.15	15.88	18.40	17.14	
	LSD (5%)				1.75	
	CV (%)				6.26	

The 'AL-GA' composite was grain from Prattville, AL, Plains, GA, and Griffin, GA.
The 'AR-LA-TX' composite was grain from Stuttgart, AR, Baton Rouge, LA, and Uvalde, TX.
The 'NC-SC-VA' composite was grain from Kinston, NC, Florence, SC, and Warsaw, VA.

GROAT Beta-GLUCAN PERCENT

Entry	Designation	AL-GA %	AR-LA-TX %	NC-SC-VA %	Avg %	Rank
1	Rodgers	6.75	4.62	6.16	5.84	15
2	TAM-O-397	5.95	4.53	5.43	5.30	27
3	Harrison	6.08	5.32	6.06	5.82	16
4	AR0213-3	6.39	6.89	6.88	6.12	10
5	AR0258-4	6.82	6.16	5.92	6.30	7
6	AR0258-7	5.97	6.33	6.66	6.31	5
7	AR0336-1	5.90	6.00	6.15	6.01	11
8	FL9701-P30	6.30	7.43	6.79	6.84	2
9	FL9708-P10	4.89	4.87	5.26	5.00	30
10	FL9708-P37	4.99	4.86	4.63	4.82	31
11	FL9708-P71	6.05	4.90	6.48	5.81	17
12	FLX506-1-B-X1-Y1	5.36	5.25	6.38	5.66	20
13	LA9535D118-4	5.45	5.05	6.17	5.55	21
14	LA966IBI-151-1	5.92	5.45	6.47	5.95	13
15	LA966BIB119-1	5.62	4.64	5.02	5.10	28
16	LA976GBI-22-B-12	5.90	5.26	5.94	5.70	19
17	LA982IBI-26	4.79	5.24	6.36	5.46	23
18	LA989IBI-49-B-11	5.91	4.83	6.62	5.78	18
19	LA9810IBI-58	5.85	5.02	6.77	5.88	14
20	NC97-8972N	5.27	6.07	3.81	5.05	29
21	NC99-3802	7.43	6.78	6.89	7.03	1
22	NC99-3806	6.03	5.67	6.33	6.01	12
23	NC99-3835	5.42	4.38	6.12	5.31	26
24	SC941348	5.57	7.24	6.11	6.31	6
25	SC961246	5.97	7.04	6.25	6.42	4
26	SC96R036	5.84	6.51	6.53	6.29	8
27	TX83Ab2923	4.97	5.86	5.59	5.47	22
28	TX97Ab1581	5.51	6.59	6.44	6.18	9
29	TX00D276	4.79	5.82	5.63	5.41	24
30	TX00D291	5.19	4.76	6.30	5.41	25
31	TX01CSRH sel 1	6.26	6.71	7.00	6.65	3
	Mean	5.78	5.68	6.10	5.85	
	LSD (5%)				0.97	
	CV (%)				10.18	

The 'AL-GA' composite was grain from Prattville, AL, Plains, GA, and Griffin, GA.
The 'AR-LA-TX' composite was grain from Stuttgart, AR, Baton Rouge, LA, and Uvalde, TX.
The 'NC-SC-VA' composite was grain from Kinston, NC, Florence, SC, and Warsaw, VA.

GROAT LIPID PERCENT

Entry	Designation	AL-GA %	AR-LA-TX %	NC-SC-VA %	Avg %	Rank
1	Rodgers	7.41	8.32	7.21	7.64	20
2	TAM-O-397	6.60	6.34	6.59	6.51	28
3	Harrison	5.15	6.01	5.49	5.55	31
4	AR0213-3	8.30	8.02	8.71	8.34	8
5	AR0258-4	8.14	8.27	7.86	8.09	13
6	AR0258-7	8.40	10.29	8.47	9.06	3
7	AR0336-1	8.26	9.20	8.12	8.52	6
8	FL9701-P30	8.04	8.14	8.52	8.23	11
9	FL9708-P10	9.39	10.22	9.69	9.77	1
10	FL9708-P37	8.72	8.59	8.68	8.67	5
11	FL9708-P71	9.38	8.91	8.76	9.01	4
12	FLX506-1-B-X1-Y1	7.51	8.42	8.15	8.03	15
13	LA9535D118-4	7.70	7.44	7.37	7.50	21
14	LA966IBI-151-1	8.17	7.73	8.27	8.05	14
15	LA966BIB119-1	7.66	8.03	7.92	7.87	16
16	LA976GBI-22-B-12	7.23	7.83	7.45	7.50	22
17	LA982IBI-26	7.13	7.63	7.20	7.32	24
18	LA989IBI-49-B-11	7.04	6.83	7.45	7.10	26
19	LA9810IBI-58	6.25	6.61	6.31	6.39	29
20	NC97-8972N	7.60	8.19	7.18	7.66	19
21	NC99-3802	7.07	7.43	7.02	7.17	25
22	NC99-3806	8.17	8.49	7.94	8.20	12
23	NC99-3835	7.15	7.88	7.34	7.45	23
24	SC941348	8.73	8.24	8.26	8.41	7
25	SC961246	7.54	8.14	7.63	7.77	17
26	SC96R036	8.15	8.47	8.19	8.27	9
27	TX83Ab2923	8.54	9.61	9.36	9.17	2
28	TX97Ab1581	6.30	6.70	6.66	6.55	27
29	TX00D276	8.38	8.22	8.13	8.24	10
30	TX00D291	7.39	8.17	7.76	7.77	18
31	TX01CSRH sel 1	6.30	6.21	6.58	6.36	30
	Mean	7.67	8.02	7.75	7.81	
	LSD (5%)				0.56	
	CV (%)				4.38	

The 'AL-GA' composite was grain from Prattville, AL, Plains, GA, and Griffin, GA.
The 'AR-LA-TX' composite was grain from Stuttgart, AR, Baton Rouge, LA, and Uvalde, TX.
The 'NC-SC-VA' composite was grain from Kinston, NC, Florence, SC, and Warsaw, VA.