

Oat

Tifton, Georgia: Oat Grain Performance, 2004-2005

Brand-Variety	Yield ¹		Rank	Yield ¹ bu/acre	Test Wt lb/bu	2005 Data				
	3-Year Average	2-Year Average				Ht	Lodg.	Winter Survival	Head Date	Crown Rust
	---- bu/acre	---- bu/acre				in	%	%	mo/day	%
Horizon 474	136.9	154.1	1	141.4	35.2	57	0	100	04/02	1
Horizon 321	126.7	136.4	3	102.6	37.7	52	0	100	04/05	0
Plot Spike LA9339	126.5	135.8	4	100.4	35.5	61	26	100	04/12	0
Secretariat	120.8	128.1	7	81.1	28.6	52	26	100	04/05	100
Rodgers	119.0	126.8	12	72.8	32.5	60	68	100	04/06	90
Harrison	114.3	123.5	15	66.4	30.7	61	18	100	04/04	55
Horizon 314	110.5	116.0	17	58.5	23.1	55	92	100	04/11	80
TAMO 405	109.9	120.0	14	69.9	30.6	47	0	100	03/31	0
SS76-40	109.7	118.5	9	77.7	32.0	54	30	100	04/06	90
C 227	107.4	123.5	10	76.6	28.1	61	80	100	04/05	70
Florida 501	102.6	113.2	13	70.3	31.4	55	5	100	03/28	25
AR0258-7	.	124.5	6	82.1	32.8	50	5	100	04/06	65
NK-Coker 820	.	113.8	16	59.2	30.9	56	0	100	03/28	55
TX02U7344	.	.	2	104.1	35.2	56	3	100	04/06	0
SC961246	.	.	5	85.4	33.5	51	21	100	04/06	90
TX02U7097	.	.	8	79.4	29.8	58	0	100	03/29	1
TX02U7605	.	.	11	73.8	30.0	56	0	100	03/27	5
Average	116.7	125.7		82.4 ²	31.6	55	22	100	04/04	43
LSD at 10% Level	N.S. ³	N.S.		18.0	4.9	4	21	-	03	29
Std. Err. of Entry Mean	3.6	4.6		7.6	2.1	2	9	-	01	8

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. C.V. = 18.5%, and df for EMS = 48.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, a LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 11, 2004.

Harvested: June 15, 2005.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.2.

Fertilization: Preplant: 25 lb N, 50 lb P₂O₅, and 75 lb K₂O/acre.

Topdress: 68 lb N/acre.

Management: Paratilled and rototilled; Harmony Extra used for weed control; Dimethoate used for insect control.

Previous Crop: Small grains.

Test conducted by A. E. Coy, R. B. Bennett, R. E. Brooke, and R. D. Burton.

Plains, Georgia: Oat Grain Performance, 2004-2005

Brand-Variety	Yield ¹		2005 Data							
	3-Year	2-Year	Rank	Yield ¹	Test	Ht	Lodg.	Winter	Head	Crown
	Average	Average								
----	bu/acre	----		bu/acre	lb/bu	in	%	%	mo/day	%
Horizon 321	125.0	129.9	1	134.2	38.7	47	0	100	04/12	0
Plot Spike LA9339	123.5	129.1	2	133.6	37.9	53	28	100	04/13	0
C 227	116.4	123.1	4	127.1	34.9	51	91	100	04/08	20
Horizon 474	114.6	126.2	3T	131.6	38.8	47	6	100	04/06	10
Harrison	112.5	121.4	10	112.7	37.3	53	5	100	04/09	23
TAMO 405	110.6	122.2	7	120.7	35.1	43	20	100	04/09	0
Rodgers	109.5	114.5	13	102.9	33.0	52	63	100	04/11	35
Florida 501	108.4	115.1	11	108.2	37.6	47	91	100	04/05	20
Secretariat	107.1	112.5	14	102.7	33.6	51	10	100	04/12	45
SS76-40	104.9	122.5	8	115.8	34.3	48	11	100	04/11	33
Horizon 314	101.3	122.1	12	105.3	29.0	52	76	100	04/14	38
NK-Coker 820	.	111.3	15	95.0	36.8	48	69	100	04/05	28
AR0258-7	.	108.4	16	89.4	35.3	44	18	100	04/15	45
TX02U7344	.	.	3T	131.6	37.6	48	84	100	04/10	0
TX02U7605	.	.	5	123.8	37.6	53	93	100	04/04	0
TX02U7097	.	.	6	121.1	34.1	51	20	100	04/08	0
SC961246	.	.	9	113.0	36.2	46	3	100	04/11	35
Average	112.1	119.9		115.8 ²	35.8	49	40	100	04/09	19
LSD at 10% Level	N.S. ³	N.S.		15.1	1.7	2	21	-	02	19
Std. Err. of Entry Mean	3.3	4.3		6.4	0.7	1	9	-	01	8

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.
2. C.V. = 11.0%, and df for EMS = 48.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, a LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 15, 2004.
 Harvested: June 16, 2005.
 Seeding Rate: 11 seeds per foot in 7" rows.
 Soil Type: Greenville sandy loam.
 Soil Test: P = Medium, K = High, and pH = 6.1.
 Fertilization: Preplant: 56 lb N, 88 lb P₂O₅, and 24 lb K₂O/acre.
 Topdress: 80 lb N/acre.
 Management: Subsoiled and rototilled.
 Previous Crop: Cotton.

Test conducted by A. E. Coy, R. B. Bennett, R. E. Brooke, R. D. Burton, and R. R. Pines.

Midville, Georgia: Oat Grain Performance, 2004-2005

Brand-Variety	Yield ¹		Rank	Yield ¹ bu/acre	Test Wt lb/bu	Ht in	Lodg. %	2005 Data		
	3-Year Average bu/acre	2-Year Average bu/acre						Winter Survival %	Head Date mo/day	Bird Damage %
Rodgers	84.9	94.4	2	83.0	33.9	42	0	100	.	1
Horizon 314	84.8	98.5	5	78.0	33.7	43	0	100	04/09	0
Secretariat	84.0	91.9	8T	69.2	31.3	47	0	100	04/07	15
TAMO 405	83.8	95.9	3	82.2	33.5	38	6	100	04/07	8
Harrison	83.6	98.5	6	76.9	35.6	44	0	100	.	1
SS76-40	80.5	90.8	13	59.5	32.7	46	0	100	04/08	14
Horizon 321	78.4	87.3	8T	69.2	34.2	43	0	100	04/05	0
Florida 501	77.9	96.6	7	71.4	33.5	45	8	100	04/07	5
Plot Spike LA9339	76.2	83.6	11	62.6	30.6	48	8	100	04/08	20
C 227	75.4	86.8	12	62.1	34.5	43	8	100	04/08	5
Horizon 474	62.9	82.3	14	58.7	33.8	47	21	100	04/07	8
AR0258-7	.	80.0	9	64.9	35.1	42	3	100	.	15
NK-Coker 820	.	80.0	16	44.8	24.5	47	0	100	04/07	53
SC961246	.	.	1	84.7	35.9	39	8	100	04/07	0
TX02U7344	.	.	4	79.1	33.1	43	13	100	04/09	15
TX02U7097	.	.	10	62.9	31.7	44	0	100	04/06	20
TX02U7605	.	.	15	58.1	31.9	45	0	100	04/04	10
Average	79.3	89.7		68.6 ²	32.9	44	4	100	04/07	11
LSD at 10% Level	N.S. ³	N.S.		N.S.	4.4	5	N.S.	-	02	22
Std. Err. of Entry Mean	4.3	5.6		10.2	1.8	2	5	-	01	9

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. C.V. = 29.6%, and df for EMS = 48.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, a LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 8, 2004.

Harvested: June 20, 2005.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Dothan loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.1.

Fertilization: Preplant: 30 lb N, 60 lb P₂O₅, and 90 lb K₂O/acre.

Topdress: 54 lb N/acre.

Management: Disked, chisel plowed, and rototilled.

Previous Crop: Corn.

Test conducted by A. E. Coy, R. B. Bennett, R. E. Brooke, and R. D. Burton.

Griffin, Georgia: Oat Grain Performance, 2004-2005

Brand-Variety	Yield ¹		2005 Data							
	3-Year Average	2-Year Average	Rank	Yield ¹ bu/acre	Test	Ht in	Lodg. %	Winter Survival %	Head Date mo/day	Bird Damage %
	---- bu/acre ----	---- bu/acre ----			Wt lb/bu					
Plot Spike LA9339	89.1	76.9	4	77.1	30.3	50	0	100	04/18	0
SS76-40	87.2	77.2	3	79.7	31.6	45	0	100	04/17	0
Horizon 321	81.8	61.8	5	71.6	31.0	43	0	100	04/18	3
Rodgers	79.2	64.7	7	57.6	28.8	46	0	100	04/19	0
Harrison	72.2	55.0	9	56.9	29.8	51	0	100	04/19	3
Horizon 314	71.8	47.7	10	54.6	29.5	44	0	100	04/23	0
Horizon 474	69.3	51.8	13	46.1	29.1	45	0	100	04/18	5
Secretariat	66.9	50.0	8	57.3	30.7	42	0	100	04/18	3
TAMO 405	61.9	44.2	11	48.1	29.8	37	0	100	04/17	11
C 227	59.3	47.3	12	47.6	29.4	45	0	100	04/17	4
Florida 501	49.6	37.0	14	42.1	27.9	44	0	100	04/16	21
AR0258-7	.	64.3	6	68.4	31.9	35	0	100	04/19	0
NK-Coker 820	.	32.3	17	28.3	29.7	43	0	100	04/13	66
SC961246	.	.	1	85.2	30.2	45	0	100	04/23	0
TX02U7344	.	.	2	81.5	30.1	47	0	100	04/19	0
TX02U7605	.	.	15	40.0	28.2	49	0	100	04/13	25
TX02U7097	.	.	16	31.5	29.4	46	0	100	04/15	3
Average	71.7	54.6		57.3 ²	29.8	44	0	100	04/18	8
LSD at 10% Level	7.0	6.2		9.5	-	2	-	-	02	11
Std. Err. of Entry Mean	3.0	2.6		4.0	-	1	-	-	01	4

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. C.V. = 14.0%, and df for EMS = 48.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 27, 2004.

Harvested: May 25, 2005.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Cecil sandy clay loam.

Soil Test: P = High, K = High, and pH = 5.6.

Fertilization: Preplant: 28 lb N, 56 lb P₂O₅, and 84 lb K₂O/acre.

Topdress: 50 lb N/acre.

Management: Chisel plowed, disked, and rototilled; Harmony Extra used for weed control.

Previous Crop: Canola.

Test conducted by P. A. Rose.

Calhoun, Georgia: Oat Grain Performance, 2004-2005

Brand-Variety	Yield ¹		2005 Data							
	3-Year Average	2-Year Average	Rank	Yield ¹ bu/acre	Test Wt lb/bu	Ht in	Lodg. %	Winter Survival %	Head Date mo/day	BYD ² lb/acre
SS76-40	.	86.1	2	40.5	38.5	45	0	100	04/25	25
Rodgers	.	84.0	8	19.1	39.6	47	0	100	04/25	55
AR0258-7	.	76.5	3	28.2	36.8	36	0	100	04/25	75
Harrison	.	75.1	4	22.4	32.7	43	0	100	04/24	55
Horizon 314	.	72.4	10	17.7	37.2	42	2	100	04/25	70
Horizon 321	.	72.0	5	22.3	38.4	42	16	100	04/24	38
Horizon 474	.	69.6	7	21.2	36.9	42	2	100	04/21	50
C 227	.	68.7	16	9.5	29.2	42	8	100	04/25	80
NK-Coker 820	.	67.3	14	11.1	32.9	42	3	100	04/16	65
Plot Spike LA9339	.	67.1	11	15.5	37.2	46	9	100	04/25	55
Secretariat	.	56.6	9	18.3	36.6	44	3	100	04/24	70
TAMO 405	.	55.6	15	9.8	33.0	36	0	100	04/25	100
Florida 501	.	53.5	17	2.0	28.0	35	2	100	04/18	100
SC961246	.	.	1	46.5	36.9	40	0	100	04/25	40
TX02U7344	.	.	6	21.5	36.8	43	1	100	04/25	30
TX02U7097	.	.	12	12.8	34.7	45	1	100	04/25	50
TX02U7605	.	.	13	11.3	30.7	44	3	100	04/18	50
Average	.	69.6		19.4 ³	35.0	42	3	100	04/23	59
LSD at 10% Level		10.0		5.7	5.5	2	5	-	02	20
Std. Err. of Entry Mean		4.2		2.4	2.3	1	2	-	01	6

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. Percentage Barley Yellow Dwarf disease, whole plant.

3. C.V. = 25.0%, and df for EMS = 48.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 26, 2004

Harvested: June 14, 2005.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Waynesboro loam.

Soil Test: P = High, K = High, and pH = 6.2.

Fertilization: Preplant: 50 lb N, 50 lb P₂O₅, and 75 lb K₂O/acre.

Topdress: 100 lb N/acre.

Management: Moldboard plowed, disked, and rototilled; Harmony Extra used for weed control.

Previous Crop: Corn.

Test conducted by P. A. Rose and J. Stubbs.

Summary of Oat Yields: Georgia, 2004-2005 with Two- and Three-Year Averages

Brand-Variety	Yield ¹								
	South ²			North ⁶			Statewide		
	3-Year Avg ³	2-Year Avg ⁴	2005 ⁵	3-Year Avg ⁷	2-Year Avg	2005	3-Year Avg	2-Year Avg	2005
	----- bu/acre -----								
<u>Commercial / Advanced Lines</u>									
C 227	104.4	120.9	101.8	63.1	58.0	28.6	88.5	93.0	65.2
Florida 501	99.4	115.7	89.2	51.1	45.2	22.1	80.8	84.4	55.6
Harrison	106.8	122.0	89.5	73.4	65.0	39.7	93.9	96.7	64.6
Horizon 314	101.5	119.0	81.9	72.0	60.0	36.1	90.1	92.8	59.0
Horizon 321	115.2	127.6	118.4	77.9	66.9	46.9	100.8	100.6	82.7
Horizon 474	110.5	133.3	136.5	69.4	60.7	33.6	94.7	101.0	85.0
NK-Coker 820	.	113.1	77.1	.	49.8	19.7	.	85.0	48.4
Plot Spike LA9339	114.5	126.9	117.0	80.3	72.0	46.3	101.3	102.5	81.6
Rodgers	107.2	117.7	87.8	81.1	74.3	38.4	97.1	98.4	63.1
SS76-40	103.2	120.8	96.8	86.7	81.6	60.1	96.9	103.4	78.4
Secretariat	108.3	119.2	91.9	62.8	53.3	37.8	90.8	89.9	64.8
TAMO 405	103.8	118.8	95.3	59.4	49.9	29.0	86.7	88.2	62.1
<i>Average</i>	<i>106.8</i>	<i>121.2</i>	<i>98.6</i>	<i>70.6</i>	<i>61.4</i>	<i>36.5</i>	<i>92.9</i>	<i>94.7</i>	<i>67.5</i>
<u>Experimental Lines</u>									
AR0258-7	.	112.2	85.7	.	70.4	48.3	.	93.6	67.0
SC961246	.	.	99.2	.	.	65.8	.	.	82.5
TX02U7097	.	.	100.2	.	.	22.1	.	.	61.2
TX02U7344	.	.	117.9	.	.	51.5	.	.	84.7
TX02U7605	.	.	98.8	.	.	25.6	.	.	62.2
<i>Average</i>	.	<i>112.2</i>	<i>100.4</i>	.	<i>70.4</i>	<i>42.7</i>	.	<i>93.6</i>	<i>71.5</i>
<i>Overall test averages and statistics:</i>									
Average	106.8	120.6	99.1	70.7	62.1	38.3	92.9	94.6	68.7
LSD at 10% Level	4.8	6.4	11.5	9.9	11.2	10.2	4.8	6.1	7.7
Std. Err. of Entry Mean	2.0	2.7	4.9	4.2	4.8	4.4	2.1	2.6	3.3

1. Yields calculated at 32 pounds per bushel at 12.5% moisture.
2. Tifton, Plains, and Midville.
3. Tifton and Plains 2003, 2004, 2005; Midville 2003, 2004.
4. Tifton and Plains 2004, 2005; Midville 2004.
5. Tifton and Plains.
6. Griffin and Calhoun.
7. Calhoun 2004, 2005 and Griffin 2003, 2004, 2005.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).