

Oat

Tifton, Georgia:

Oat Grain Performance, 2006-2007

Brand-Variety	Yield ¹		2007 Data						
	3-Year	2-Year	Rank	Yield ¹	Test			Winter Survival	Head Date
	Average	Average			Wt	Ht	Lodg.		
----- bu/acre -----		bu/acre		lb/bu	in	%	%	mo/day	
Horizon 474	117.5	105.5	7	135.3	33.4	47	31	.	03/25
Horizon 321	111.5	115.9	6	137.9	33.2	45	20	.	03/30
TAMO 405	100.2	115.3	8	132.3	31.6	42	0	.	03/20
TAMO 406	94.7	90.0	15	113.6	32.4	46	23	.	03/27
SS76-40	87.2	91.9	13	118.4	32.3	47	1	.	03/29
Rodgers	83.3	88.6	16	112.1	31.1	52	21	.	03/29
TX02U7682	.	124.9	1	153.7	34.8	46	0	.	03/25
Horizon 270	.	117.4	4	142.1	33.6	46	3	.	03/27
TX02U7473	.	116.5	5	139.6	31.7	50	3	.	03/24
LA95033D63-1-C-S3	.	113.8	11	127.2	29.3	46	0	.	03/30
FL99212-06	.	.	2	153.2	32.2	48	0	.	03/28
FL0048-H23	.	.	3	147.2	31.4	44	5	.	03/22
FL99201-029-E1	.	.	9	130.7	28.1	56	31	.	03/28
LA02030-S-B-171-S2	.	.	10	127.3	32.0	49	0	.	03/24
FL99106-H4	.	.	12	120.5	32.1	46	25	.	03/31
Florida 501	.	.	14	118.1	30.8	47	50	.	03/23
LA990165BSB-98-S	.	.	17	101.2	32.0	53	16	.	03/28
FL0105-H3	.	.	18	98.7	29.1	52	31	.	03/28
LA9912	.	.	19	86.8	34.4	53	89	.	03/27
UFRGS995080-1	.	.	20	79.5	34.6	46	6	.	03/15
Average	99.1	108.0		123.8 ²	32.0	48	18	.	03/26
LSD at 10% Level	N.S. ³	9.6		17.9	2.6	2	24		03
Std. Err. of Entry Mean	3.9	4.1		7.6	1.1	1	10		01

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

2. C.V. = 12.2%, and df for EMS = 57.

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 9, 2006.

Harvested: May 14, 2007.

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

Soil Type: Dothan loamy sand.

Soil Test: P = Medium, K = Low, and pH = 6.4.

Fertilization: Preplant: 59 lb N, 27 lb P₂O₅, and 54 lb K₂O/acre.

Topdress: 50 lb N/acre.

Management: Subsoiled and rototilled; Harmony Extra used for weed control.

Previous Crop: Wheat.

Test conducted by A. E. Coy, R. Brooke, and R. Jackson.

Plains, Georgia: Oat Grain Performance, 2006-2007

Brand-Variety	Yield ¹		2007 Data						
	3-Year	2-Year	Rank	Yield ¹	Test	Ht	Lodg.	Winter	Head
	Average	Average							
----- bu/acre -----									
TAMO 405	135.5	142.9	16	155.6	31.8	44	1	100	03/28
SS76-40	134.8	144.3	4	175.0	32.5	53	0	100	03/31
Rodgers	132.2	146.8	6	171.7	31.7	55	4	100	03/30
Horizon 474	132.2	132.5	12	160.0	32.1	50	10	100	03/29
Horizon 321	127.1	123.5	18	139.5	34.0	47	0	100	04/01
TAMO 406	120.2	114.5	19	129.6	30.5	50	3	100	04/01
TX02U7473	.	152.9	2	178.5	31.3	53	0	100	03/26
TX02U7682	.	150.5	1	179.1	33.1	50	0	100	03/29
Horizon 270	.	142.0	14	159.4	30.6	48	0	100	03/31
LA95033D63-1-C-S3	.	131.9	15	157.5	31.3	49	0	100	04/01
FL0105-H3	.	.	3	176.3	32.7	58	13	100	03/28
FL99201-029-E1	.	.	5	172.9	31.3	53	25	100	03/30
LA02030-S-B-171-S2	.	.	7	168.7	31.2	51	0	100	03/28
LA990165BSB-98-S	.	.	8	166.4	31.1	56	0	100	03/31
FL99212-06	.	.	9	162.4	31.1	51	0	100	03/30
FL0048-H23	.	.	10	161.0	31.5	47	10	100	03/27
FL99106-H4	.	.	11	160.2	32.4	51	5	100	04/02
LA9912	.	.	13	159.8	31.6	53	85	100	03/28
Florida 501	.	.	17	154.9	30.8	46	85	100	03/24
UFRGS995080-1	.	.	20	104.9	37.2	46	30	80	03/22
Average	130.3	138.2		159.7 ²	32.0	50	14	99	03/29
LSD at 10% Level	N.S. ³	15.1		20.9	1.6	3	9	-	01
Std. Err. of Entry Mean	5.0	6.4		8.8	07	1	4	-	01

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

2. C.V. = 11.1%, and df for EMS = 57.

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 13, 2006

Harvested: May 28, 2007.

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

Soil Type: Greenville sandy loam.

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

Fertilization: Preplant: 62 lb N, 88 lb P₂O₅, and 24 lb K₂O/acre.

Topdress: 30 lb N/acre.

Management: Subsoiled and rototilled.

Previous Crop: Peanuts.

Test conducted by A. E. Coy, R. Brooke, R. Jackson, and R. Pines.

Midville, Georgia: Oat Grain Performance, 2006-2007

Brand-Variety	Yield ¹		Rank	2007 Data					
	3-Year	2-Year		Yield ¹	Test	Ht	Lodg.	Winter	Head
	Average	Average			Wt				
	-----	bu/acre	-----	bu/acre	lb/bu	in	%	%	mo/day
Rodgers	91.9	96.3	3	99.7	32.6	48	0	100	04/02
TAMO 405	88.1	91.1	12 ^T	88.2	32.1	39	0	100	03/30
Horizon 474	86.2	100.0	2	109.6	35.8	44	0	100	04/01
TAMO 406	85.8	89.2	14	87.2	32.9	45	0	100	04/04
Horizon 321	83.4	90.5	12 ^T	88.2	32.4	40	0	100	04/04
SS76-40	79.7	89.8	5	97.3	32.6	42	0	100	04/03
TX02U7473	.	98.7	4	99.2	33.2	46	0	100	03/29
TX02U7682	.	96.4	8	90.9	30.9	42	0	100	03/30
LA95033D63-1-C-S3	.	92.8	11	88.8	28.7	42	0	100	04/04
Horizon 270	.	76.9	17	71.3	30.8	41	0	100	04/02
FL99201-029-E1	.	.	1	115.0	33.3	49	0	100	04/02
FL0048-H23	.	.	6	93.3	30.2	38	0	100	03/30
FL99212-06	.	.	7	91.6	33.1	42	0	100	04/02
LA02030-S-B-171-S2	.	.	9	90.7	31.1	43	0	100	03/30
LA990165BSB-98-S	.	.	10	89.5	31.8	49	0	100	04/02
FL99106-H4	.	.	13	87.3	31.4	42	0	100	04/05
FL0105-H3	.	.	15	84.6	29.0	49	0	100	03/31
Florida 501	.	.	16	78.8	32.2	45	5	100	03/28
LA9912	.	.	18	57.3	30.2	50	0	100	03/31
UFRGS995080-1	.	.	19	54.1	35.8	42	43	100	03/24
Average	85.9	92.2		88.1 ²	32	44	2	100	04/01
LSD at 10% Level	N.S. ²	N.S.		8.0	1.7	2	13	-	01
Std. Err. of Entry Mean	3.3	2.8		3.4	0.7	1	6	-	01

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

2. C.V. = 7.7%, and df for EMS = 57.

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 14, 2006.

Harvested: May 31, 2007.

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

Soil Type: Dothan loamy sand.

Soil Test: P = High, K = Very High, and pH = 6.4.

Fertilization: Preplant: 40 lb N, 40 lb P₂O₅, and 40 lb K₂O/acre.

Topdress: 50 lb N/acre.

Management: Moldboard plowed and rototilled.

Previous Crop: Fallow.

Test conducted by A. E. Coy, R. Brooke, R. Jackson, and T. Robinson.

Griffin, Georgia: Oat Grain Performance, 2006-2007

Brand-Variety	Yield ¹		2007 Data						
	3-Year	2-Year	Rank	Yield ¹	Test	Ht	Lodg.	Winter	Head
	Average	Average							
	-----	bu/acre	-----	bu/acre	lb/bu	in	%	%	mo/day
SS76-40	124.3	146.7	10	153.0	37.8	39	0	.	04/16
Horizon 474	119.1	155.7	2	170.4	38.2	40	0	.	04/13
Horizon 321	118.7	142.2	16	128.1	38.9	37	0	.	04/20
Rodgers	118.5	148.9	3	164.1	36.6	42	0	.	04/16
TAMO 406	115.1	131.9	9	155.2	35.7	41	0	.	04/19
TAMO 405	106.1	135.1	13	141.0	36.3	34	0	.	04/15
Horizon 270	.	143.3	7	156.9	34.5	36	0	.	04/14
TX02U7682	.	143.2	4	158.2	36.3	39	0	.	04/11
LA95033D63-1-C-S3	.	134.7	14	136.2	34.5	38	0	.	04/21
TX02U7473	.	133.3	11	151.4	36.4	39	0	.	04/08
FL99201-029-E1	.	.	1	184.4	35.4	45	0	.	04/13
Florida 501	.	.	5	157.7	36.9	43	0	.	04/09
LA990165BSB-98-S	.	.	6	157.2	36.2	43	0	.	04/15
LA02030-S-B-171-S2	.	.	8	155.6	34.0	39	0	.	04/13
FL99212-06	.	.	12	147.8	37.5	39	0	.	04/20
FL0105-H3	.	.	15	133.1	34.1	45	0	.	04/18
FL99106-H4	.	.	17	125.2	36.6	40	0	.	04/20
FL0048-H23	.	.	18	112.1	35.3	38	0	.	04/11
LA9912	.	.	19	112.0	37.8	48	21	.	04/12
UFRGS995080-1	.	.	20	99.4	45.6	41	0	.	04/06
Average	117.0	141.5		144.9 ²	36.7	40	1	.	04/14
LSD at 10% Level	N.S. ³	N.S.		14.5	0.9	2	4		02
Std. Err. of Entry Mean	3.9	5.0		6.2	1.0	1	2		01

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

2. C.V. = 8.5%, and df for EMS = 57.

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 10, 2006.

Harvested: May 23, 2007.

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

Soil Type: Cecil sandy clay loam.

Soil Test: P = High, K = High, and pH = 6.4.

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

Topdress: 60 lb N/acre.

Management: Chisel plowed, disked, and rototilled.

Previous Crop: Corn.

Test conducted by J. Gasset, G. Ware, and D. Day.

Calhoun, Georgia: Oat Grain Performance, 2006-2007

Brand-Variety	Yield ¹		Rank	2007 Data					
	3-Year	2-Year		Yield ¹	Test	Ht	Lodg.	Winter	Head
	Average	Average			Wt				
	-----	bu/acre	-----	bu/acre	lb/bu	in	%	%	mo/day
Rodgers	104.2	146.7	2	106.9	36.7	44	2	100	.
SS76-40	103.6	135.2	5	95.3	37.1	40	0	100	.
Horizon 321	92.9	128.2	18	65.3	39.1	37	0	100	.
Horizon 474	91.7	127.0	14	73.1	36.1	43	7	100	.
TAMO 405	86.7	125.1	9	85.4	34.7	34	25	100	.
TAMO 406	85.4	117.3	11	84.1	35.4	41	0	100	.
LA95033D63-1-C-S3	.	135.4	4	99.8	35.2	40	0	100	.
TX02U7473	.	135.2	8	85.7	34.6	40	20	100	.
TX02U7682	.	134.4	12	79.3	36.8	40	10	100	.
Horizon 270	.	132.4	10	84.9	35.6	39	2	100	.
FL99201-029-E1	.	.	1	107.0	33.9	44	20	100	.
FL99212-06	.	.	3	105.7	38.2	40	0	100	.
Florida 501	.	.	6	94.3	36.7	41	43	100	.
LA990165BSB-98-S	.	.	7	87.1	35.7	44	7	100	.
FL0105-H3	.	.	13	76.9	33.5	41	7	100	.
FL99106-H4	.	.	15	69.1	35.4	42	23	100	.
LA9912	.	.	16	66.0	37.2	41	52	100	.
LA02030-S-B-171-S2	.	.	17	65.7	33.2	42	7	100	.
UFRGS995080-1	.	.	19	61.9	44.6	39	7	100	.
FL0048-H23	.	.	20	42.8	33.8	39	0	100	.
Average	94.1	131.7		81.8 ²	36.2	41	12	100	.
LSD at 10% Level	N.S. ²	N.S.		15.2	2.3	3	28	-	
Std. Err. of Entry Mean	3.8	5.1		5.6	0.8	1	10	-	

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.
2. C.V. = 13.5%, and df for EMS = 38.
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: October 13, 2006.
 Harvested: June 5, 2007.
 Seeding Rate: 11 seeds per foot in 7" rows.
 Soil Type: Waynesboro loam.
 Soil Test: P = High, K = High, and pH = 6.3.
 Fertilization: Preplant: 50 lb N, 50 lb P₂O₅, and 75 lb K₂O/acre.
 Topdress: 70 lb N/acre.
 Management: Moldboard plowed, disked, and rototilled.
 Previous Crop: Corn.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Marianna, Florida: Oat Grain Performance, 2006-2007

Brand-Variety	Yield ¹ bu/acre	Test		Lodging %	Winter Survival %	Head Date mo/day
		Weight lb/bu	Height in			
TX02U7682	116.3	32.0	35	0	.	04/02
TAMO 405	107.4	35.2	33	0	.	04/01
TX02U7473	105.9	35.2	37	0	.	03/24
LA95033D63-1-C-S3	101.2	32.0	36	0	.	04/05
FL99201-029-E1	100.4	35.2	39	0	.	04/01
LA02030-S-B-171-S2	97.5	31.7	36	0	.	04/03
LA990165BSB-98-S	96.7	35.2	37	0	.	04/01
FL0105-H3	92.3	31.0	41	0	.	04/02
FL0048-H23	88.0	32.0	34	3	.	04/03
Horizon 474	87.6	35.2	34	0	.	04/02
FL99106-H4	84.6	31.4	35	0	.	04/03
Horizon 321	82.0	35.2	32	0	.	04/05
FL99212-06	80.9	35.2	32	0	.	04/01
TAMO 406	80.1	35.2	34	0	.	04/02
Rodgers	77.5	31.0	39	0	.	04/02
Horizon 270	73.6	32.0	29	0	.	04/01
LA9912	67.5	35.2	44	23	.	04/01
UFRGS995080-1	67.2	41.6	36	15	.	03/19
SS76-40	60.9	.	32	0	.	04/02
Florida 501	50.8	32.0	35	28	.	03/23
Average	85.9 ²	33.9	35	3	.	03/31
LSD at 10% Level	19.2	-	2	5		-
Std. Err. of Entry Mean	8.1	-	1	2		-

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

2. C.V. = 18.9%, and df for EMS = 57.

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

Planted: December 7, 2006.

Harvested: May 21, 2007.

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

Soil Type: Orangeburg loamy sand.

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

Fertilization: At planting: 54 lb N, 27 lb P₂O₅, and 54 lb K₂O/acre.

Topdress: 50 lb N/acre.

Management: Disked; Buctril and Harmony Extra used for weed control.

Test conducted by Jeff Jones.

Summary of Oat Yields: Georgia, 2006-2007 with Two- and Three-Year Averages

Brand-Variety	Yield ¹								
	South ²			North ³			Statewide		
	3-Year Average	2-Year Average	2007	3-Year Average	2-Year Average	2007	3-Year Average	2-Year Average	2007
----- bu/acre -----									
<u>Commercial / Advanced Lines</u>									
Horizon 270	.	112.1	124.3	.	137.8	120.9	.	122.4	122.9
Horizon 321	112.1	110.0	121.9	122.5	135.2	96.7	116.1	120.1	111.8
Horizon 474	118.6	112.7	135.0	122.3	141.3	121.7	120.0	124.1	129.7
LA9912	.	.	101.3	.	.	89.0	.	.	96.4
Rodgers	104.9	110.6	127.9	129.8	147.8	135.5	114.5	125.5	130.9
SS76-40	105.7	108.6	130.2	128.7	140.9	124.2	114.5	121.6	127.8
TAMO 405	111.1	116.4	125.4	113.7	130.1	113.2	112.1	121.9	120.5
TAMO 406	102.9	97.9	110.1	116.0	124.6	119.7	107.9	108.6	113.9
<i>Average</i>	109.2	109.8	122	122.2	136.8	115.1	114.2	120.6	119.2
<u>Experimental Lines</u>									
FL0048-H23	.	.	133.8	.	.	77.4	.	.	111.3
FL0105-H3	.	.	119.9	.	.	105.0	.	.	113.9
FL99106-H4	.	.	122.7	.	.	97.1	.	.	112.4
FL99201-029-E1	.	.	139.5	.	.	145.7	.	.	142.0
FL99212-06	.	.	135.7	.	.	126.8	.	.	132.1
Florida 501	.	.	117.2	.	.	126.0	.	.	120.7
LA02030-S-B-171-S2	.	.	128.9	.	.	110.7	.	.	121.6
LA95033D63-1-C-S3	.	112.8	124.5	.	135.0	118.0	.	121.7	121.9
LA990165BSB-98-S	.	.	119.0	.	.	122.2	.	.	120.3
TX02U7473	.	122.7	139.1	.	134.3	118.5	.	127.3	130.9
TX02U7682	.	123.9	141.2	.	138.8	118.8	.	129.9	132.2
UFRGS995080-1	.	.	79.5	.	.	80.6	.	.	79.9
<i>Average</i>		119.8	125.1		136	112.23		126.3	119.9
<i>Overall test averages and statistics:</i>									
Average	109.2	112.8	123.9	122.2	136.6	113.4	114.2	122.3	119.7
LSD at 10% Level	6.6	7.5	9.4	N.S.4	N.S.	22.9	N.S.	7.5	10.2
Std. Err. of Entry Mean	2.8	3.2	4.0	5.2	6.2	9.8	2.6	3.2	4.4

1. Yields calculated at 32 pounds per bushel at 12.5% moisture.
2. Tifton, Plains, and Midville.
3. Griffin and Calhoun.
4. 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).