

Oat

Tifton, Georgia: Oat Grain Performance, 2013-2014

Brand-Variety	Yield		Rank	2014 Data				Head Date
	3-Year Average	2-Year Average		Yield	Test Wt	Ht	Lodg.	
	-----	bu/acre	-----	bu/acre	lb/bu	in	%	mo/day

An oat variety grain trial was planted at this location on September 20, 2013. However, crown rust and lodging during the growing season resulted in some very low grain yields and considerable variation in performance within and among plots in the test. After careful analysis and review of the data, it is the opinion of the editors that the results of this trial may not accurately reflect the genetic performance potential of all the test entries. Since this data is not useful for making decisions and could be misleading if used in making variety selections, it will not be presented in this publication.

Plains, Georgia: Oat Grain Performance, 2013-2014

Brand-Variety	Yield ¹		2014 Data						
	3-Year Average	2-Year Average	Rank	Yield ¹	Test Wt	Ht	Lodg.	Head Date	Crown Rust ²
	----- bu/acre	----- bu/acre		bu/acre	lb/bu	in	%	mo/day	%
Horizon 270	112.1	120.3	5	118.6	30.7	49	5	04/12	80
Horizon 306	108.5	106.5	8	111.6	31.4	50	15	04/17	80
Horizon 201	102.4	95.7	10	105.3	27.7	56	45	04/13	80
Gerard 224	96.7	93.6	4	120.8	31.9	51	0	04/14	80
Gerard 229	96.0	91.4	6	118.4	32.4	46	1	04/17	.
SS 76-50	95.5	92.2	11	101.2	28.3	50	8	04/17	80
LA07007-68	.	103.6	13	98.5	30.6	50	11	04/10	0
FL0720-R6	.	.	1	135.5	33.3	59	51	04/19	0
FL0720-R5	.	.	2	123.2	33.4	59	58	04/18	0
TX09CS112	.	.	3	121.5	29.4	43	0	04/11	80
NC10-5069	.	.	7	116.5	30.6	46	48	04/19	.
NC11-1798	.	.	9	110.3	34.9	48	75	04/15	.
LA07048-28	.	.	12	99.6	30.0	59	16	04/16	80
LA06046SS-N2-Ab2	.	.	14	98.1	30.4	45	1	04/11	0
LA02065-88	.	.	15	96.3	30.6	54	4	04/17	.
TX09CS1029	.	.	16 ^T	93.9	30.1	48	5	04/12	70
NC10-5051	.	.	16 ^T	93.9	30.6	54	21	04/19	100
TX10CAS085	.	.	17	92.7	30.2	50	4	04/13	80
LA07048-19	.	.	18	89.0	23.5	61	23	04/14	80
FL0772-R3	.	.	19	81.0	34.4	51	8	04/19	0
FL03254-L1	.	.	20	80.9	30.0	52	54	04/12	.
NC09-4503N	.	.	21	77.0	36.8	51	6	04/10	80
FL0567-L1	.	.	22	73.8	24.3	58	5	04/08	80
NF27	.	.	23	70.7	27.8	62	48	04/12	80
Okay	.	.	24	60.0	26.7	51	94	04/19	80
Average	101.9	100.5		99.5 ³	30.4	52	24	04/14	60
LSD at 10% Level	N.S. ⁴	N.S.		11.9	1.8	2	22	01	-
Std. Err. of Entry Mean	3.9	5.3		5.1	0.8	1	10	01	-

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

2. Crown rust data collected on May 13, 2014.

3. C.V. = 10.2%, and df for EMS = 72.

4. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an 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, 2013.

Harvested: June 3, 2014.

Seeding Rate: 11 seeds per foot in 7-inch rows.

Soil Type: Greenville sandy loam.

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

Fertilization: Preplant: 15 lb N, 66 lb P₂O₅, and 18 lb K₂O/acre.

Topdress: 80 lb N/acre.

Management: Disked and rototilled.

Previous Crop: Peanuts.

Test conducted by A. Coy, D. Pearce, W. Jones, R. Brooke, D. Dunn, and B. McCranie.

Midville, Georgia: Oat Grain Performance, 2013-2014

Brand-Variety	Yield ¹		Rank	Yield ¹ bu/acre	2014 Data			
	3-Year Average	2-Year Average			Test		Lodg. %	Head Date
	----- bu/acre	----- bu/acre			Wt lb/bu	Ht in		
Gerard 229	106.2	103.0	1	144.8	35.6	46	3	04/17
SS 76-50	100.5	90.7	3	110.7	32.9	44	38	04/15
Gerard 224	95.1	86.4	8	105.9	33.4	50	41	04/16
Horizon 306	94.7	98.9	9	104.1	32.0	51	20	04/13
Horizon 201	85.4	87.5	16	85.6	27.1	51	45	04/11
Horizon 270	84.2	79.2	4	108.0	31.8	49	0	04/13
LA07007-68	.	89.9	21	71.4	32.1	50	1	04/10
TX09CS112	.	.	2	131.0	30.1	43	0	04/12
NC10-5069	.	.	5	107.8	31.6	44	16	04/18
FL0720-R6	.	.	6	107.6	33.6	57	30	04/18
NC10-5051	.	.	7	107.2	35.2	53	25	04/18
TX09CS1029	.	.	10	102.4	31.2	48	0	04/12
FL0720-R5	.	.	11	93.4	32.1	60	14	04/17
NC11-1798	.	.	12	93.0	35.6	52	55	04/16
TX10CAS085	.	.	13	91.5	32.1	48	14	04/14
LA07048-28	.	.	14	90.7	29.9	57	49	04/14
Okay	.	.	15	86.8	24.0	49	76	04/19
FL0772-R3	.	.	17	85.5	31.5	54	0	04/18
NC09-4503N	.	.	18 ^T	77.3	38.6	51	16	04/10
LA06046SS-N2-Ab2	.	.	18 ^T	77.3	29.5	45	0	04/10
LA02065-88	.	.	19	76.5	30.2	49	23	04/14
FL03254-L1	.	.	20	76.4	30.7	52	23	04/12
LA07048-19	.	.	22	68.0	23.4	57	10	04/12
NF27	.	.	23	63.5	29.6	60	39	04/12
FL0567-L1	.	.	24	58.4	26.8	59	26	04/10
Average	94.4	90.8		93.0 ²	31.2	51	22	04/14
LSD at 10% Level	N.S. ³	N.S.		20.8	4.1	4	28	02
Std. Err. of Entry Mean	4.8	6.1		8.8	1.8	2	12	01

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

2. C.V. = 19.0%, and df for EMS = 72.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an 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 22, 2013.

Harvested: June 5, 2014.

Seeding Rate: 11 seeds per foot in 7-inch rows.

Soil Type: Dothan loamy sand.

Soil Test: P = High, K = Medium, and pH = 6.0.

Fertilization: Preplant: 30 lb N, 40 lb P₂O₅, and 120 lb K₂O/acre.

Topdress: 80 lb N/acre.

Management: Disked and moldboard plowed; 1,000 lb/acre lime applied.

Previous Crop: Wheat.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Griffin, Georgia: Oat Grain Performance, 2013-2014

Brand-Variety	Yield ¹		2014 Data						
	3-Year Average	2-Year Average	Rank	Yield ¹	Test Wt	Ht	Lodg.	Head Date	Winter Survival
	----- bu/acre	----- bu/acre		bu/acre	lb/bu	in	%	mo/day	%
Horizon 270	160.6	180.0	7	186.2	36.9	46	33	04/26	93
SS 76-50	155.6	173.1	3	191.7	36.3	48	68	04/27	89
Gerard 224	153.6	167.1	2	198.7	38.7	47	35	04/26	90
Horizon 306	151.9	160.3	10	181.7	39.1	47	60	04/28	93
Horizon 201	150.0	153.1	5	188.5	36.1	54	55	04/24	93
Gerard 229	144.7	162.7	11	181.0	37.1	43	18	04/29	90
LA07007-68	.	149.1	19	156.8	39.4	47	93	04/20	88
NC11-1798	.	.	1	208.2	40.5	48	94	04/27	91
TX09CS112	.	.	4	188.8	35.8	41	0	04/24	93
FL0720-R6	.	.	6	187.2	38.6	54	90	04/28	90
LA02065-88	.	.	8	185.7	36.1	50	13	04/25	93
NC10-5069	.	.	9	184.5	34.5	46	81	04/29	89
NC10-5051	.	.	12	180.9	39.3	50	18	04/27	94
TX10CAS085	.	.	13	176.3	36.9	46	44	04/27	91
LA07048-28	.	.	14	171.3	34.4	55	5	04/25	94
FL0720-R5	.	.	15	171.2	38.3	54	89	04/27	94
TX09CS1029	.	.	16	169.1	35.6	44	13	04/26	80
LA07048-19	.	.	17	160.1	35.0	57	26	04/25	94
FL03254-L1	.	.	18	156.9	38.1	52	39	04/25	88
Okay	.	.	20	156.4	32.5	50	86	04/27	90
LA06046SS-N2-Ab2	.	.	21	147.3	34.8	44	21	04/21	89
FL0567-L1	.	.	22	145.9	37.6	52	83	04/19	89
NF27	.	.	23	139.0	34.3	58	85	04/24	90
NC09-4503N	.	.	24	138.6	40.1	50	98	04/21	90
FL0772-R3	.	.	25	67.4	35.0	45	1	05/05	58
Average	152.7	163.6		168.8 ²	36.9	49	50	04/26	89
LSD at 10% Level	N.S. ³	N.S.		9.5	1.6	3	16	01	6
Std. Err. of Entry Mean	4.2	6.0		4.1	0.7	1	7	01	3

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

2. C.V. = 8.2%, and df for EMS = 72.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an 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 30, 2013.

Harvested: June 10, 2014.

Seeding Rate: 11 seeds per foot in 7-inch rows.

Soil Type: Cecil sandy loam.

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

Fertilization: Preplant: 20 lb N, 40 lb P₂O₅, and 60 lb K₂O/acre.

Topdress: 70 lb N/acre.

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

Previous Crop: Soybeans.

Test conducted by J. Gassett, G. Ware, and H. Jordan.

Calhoun, Georgia: Oat Grain Performance, 2013-2014

Brand-Variety	Yield ¹		2014 Data						
	3-Year	2-Year	Rank	Yield ¹	Test	Ht	Lodg.	Head	Winter
	Average	Average			Wt				
-----	bu/acre	-----	bu/acre	lb/bu	in	%	mo/day	%	
Horizon 201	120.6	124.1	1	185.1	34.6	53	96	04/21	100
SS 76-50	112.6	120.3	5	162.4	35.9	48	99	04/21	100
Gerard 229	108.1	125.6	4	162.7	34.6	42	96	04/25	100
Horizon 306	101.4	110.2	6	160.7	40.1	48	98	04/23	100
Gerard 224	99.6	99.5	9	140.7	36.5	47	96	04/21	100
Horizon 270	98.1	116.1	2	171.8	36.7	43	88	04/23	100
LA07007-68	.	64.3	20	66.7	31.4	40	75	04/27	18
NC10-5069	.	.	3	165.7	35.2	43	98	04/22	100
TX09CS112	.	.	7	157.6	32.3	44	99	04/21	100
NC11-1798	.	.	8 ^T	144.2	37.2	47	100	04/22	100
LA06046SS-N2-Ab2	.	.	8 ^T	144.2	33.8	42	98	04/21	100
TX10CAS085	.	.	10	139.2	34.8	47	98	04/20	100
NC10-5051	.	.	11 ^T	136.3	36.7	48	96	04/23	100
NC09-4503N	.	.	11 ^T	136.3	44.5	51	98	04/20	100
LA02065-88	.	.	12	131.7	35.7	47	95	04/22	100
LA07048-28	.	.	13	126.6	34.2	56	96	04/22	100
Okay	.	.	14	125.5	32.4	53	99	04/24	100
TX09CS1029	.	.	15	121.7	35.3	48	98	04/22	100
FL0720-R6	.	.	16	110.9	32.2	53	100	04/27	100
NF27	.	.	17 ^T	107.9	34.4	60	95	04/21	100
FL03254-L1	.	.	17 ^T	107.9	36.3	48	100	04/23	100
LA07048-19	.	.	18	107.1	34.8	58	98	04/21	100
FL0720-R5	.	.	19	94.8	32.6	50	91	04/26	46
FL0567-L1	.	.	21	56.1	32.6	47	74	04/23	21
FL0772-R3	.	.	22	3.0	0.1	40	10	04/27	3
Average	106.7	108.6		126.7 ²	33.8	48	92	04/22	88
LSD at 10% Level	N.S. ³	N.S.		15.7	1.4	3	12	02	9
Std. Err. of Entry Mean	6.0	7.0		10.0	0.6	1	5	01	4

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

2. C.V. = 15.7%, and df for EMS = 72.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an 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 10, 2013.

Harvested: June 17, 2014.

Seeding Rate: 11 seeds per foot in 7-inch rows.

Soil Type: Rome gravelly loam.

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

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

Topdress: 75 lb N/acre.

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

Previous Crop: Fallow.

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

Summary of Oat Yields: Georgia, 2013-2014 with Two- and Three-Year Averages

Brand-Variety	Yield ¹								
	South ²			North ³			Statewide ⁴		
	3-Year Average	2-Year Average	2014	3-Year Average	2-Year Average	2014	3-Year Average	2-Year Average	2014
	----- bu/acre -----								
FL03254-L1	.	.	78.7	.	.	132.4	.	.	105.5
FL0567-L1	.	.	66.1	.	.	101.0	.	.	83.5
FL0720-R5	.	.	108.3	.	.	133.0	.	.	120.6
FL0720-R6	.	.	121.5	.	.	149.0	.	.	135.3
FL0772-R3	.	.	83.2	.	.	35.2	.	.	59.2
Gerard 224	95.9	90.0	113.3	126.6	133.3	169.7	111.2	111.6	141.5
Gerard 229	101.1	97.2	131.6	126.4	144.1	171.9	113.7	120.7	151.7
Horizon 201	93.9	91.6	95.5	135.3	138.6	186.8	114.6	115.1	141.1
Horizon 270	98.1	99.8	113.3	129.3	148.0	179.0	113.7	123.9	146.1
Horizon 306	101.6	102.7	107.8	126.6	135.3	171.2	114.1	119.0	139.5
LA02065-88	.	.	86.4	.	.	158.7	.	.	122.5
LA06046SS-N2-Ab2	.	.	87.7	.	.	145.8	.	.	116.7
LA07007-68	.	96.7	84.9	.	106.7	111.7	.	101.7	98.3
LA07048-19	.	.	78.5	.	.	133.6	.	.	106.0
LA07048-28	.	.	95.1	.	.	149.0	.	.	122.0
NC09-4503N	.	.	77.1	.	.	137.4	.	.	107.3
NC10-5051	.	.	100.6	.	.	158.6	.	.	129.6
NC10-5069	.	.	112.1	.	.	175.1	.	.	143.6
NC11-1798	.	.	101.6	.	.	176.2	.	.	138.9
NF27	.	.	67.1	.	.	123.5	.	.	95.3
Okay	.	.	73.4	.	.	140.9	.	.	107.2
SS 76-50	98.0	91.4	105.9	134.1	146.7	177.1	116.0	119.1	141.5
TX09CS1029	.	.	98.1	.	.	145.4	.	.	121.8
TX09CS112	.	.	126.2	.	.	173.2	.	.	149.7
TX10CAS085	.	.	92.1	.	.	157.8	.	.	124.9
Average	98.1	95.6	96.2	129.7	136.1	147.7	113.9	115.9	122.0
LSD at 10% Level	N.S. ⁵	N.S.	11.9	N.S.	15.5	18.0	N.S.	N.S.	10.8
Std. Err. of Entry Mean	3.1	4.0	5.1	4.8	6.6	7.7	2.9	3.9	4.6

1. Yields calculated at 32 pounds per bushel at 12.5% moisture.
2. Plains and Midville.
3. Griffin and Calhoun.
4. Four locations.
5. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an 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).