

2010-2011 CANOLA PERFORMANCE TESTS

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The Season

Georgia small grain farmers in the fall of 2010 faced high temperatures and hot and low soil moisture conditions for the canola grain planting season. The unfavorable planting conditions continued unabated until mid-November when rain set in along with colder temperatures. With the hindrance of wet fields, land preparation and planting was delayed in some areas. Very little canola was planted in the fall of 2010 due to farmer disinterest - mainly attributed to the absence of a market for the commodity. At the University of Georgia we continue to participate in the National Winter Canola Program (headquartered at Kansas State University), thus, research plots of canola were established at Griffin.

Rainfall amounts recorded monthly at Griffin, Georgia during the 2010-2011 growing season are presented in the following table. Below normal rainfall occurred for the nine month reporting period across the Piedmont area of the state. At Griffin the deficit was 9.2 inches, 25% less than normal for the growing season. The precipitation deficit was greatest across the Coastal Plain area, down 41%, however, around Rome in the Limestone Valley a rain deficit of eight percent was much less than the state due to a wet March and April. Record cold temperatures lingered for much of the growing season across the state of Georgia.

2010-2011 Rainfall ¹		
Month	Year	Griffin Inches
October	2010	1.86
November	2010	4.60
December	2010	1.24
January	2011	2.84
February	2011	5.05
March	2011	6.36
April	2011	2.21
May	2011	0.84
June	2011	3.48
Total (9 months)		28.48
Normal (9 months)		37.65

1. Data submitted by Dr. Ian Flitcroft,
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Along with the wet conditions the weather remained cold throughout the canola growing season which was beneficial for canola production. Canola disease and insect pressure was light during the growing season.

The results of the National Winter Canola trial at Griffin are presented on the following page.

**Griffin, Georgia:
National Winter Canola Variety Trial, 2010-2011**

Variety	Yield ¹ lb/A	Vigor rating ²	TWT %	Bloom date	Maturity date	Plant		Shatter %	Stand rating
						Height in	Lodging rating ³		
Hornet	3725	5	52.8	03/23	05/24	72	1.0	0	10
HYBRISTAR	3392	5	52.1	03/22	05/21	74	1.0	0	10
Sitro	3305	5	52.3	03/22	05/22	68	1.0	0	10
Dynastie	3210	5	52.1	03/26	05/23	71	1.0	0	10
MH06E11	3091	5	51.9	03/24	05/23	75	1.0	0	10
CHROME	2765	5	52.2	03/24	05/23	73	1.0	0	10
Flash	2750	5	52.0	03/24	05/21	73	1.0	0	10
Safran	2727	5	52.8	03/27	05/24	72	1.0	0	9
HYBRISURF	2718	5	51.9	03/26	05/23	77	1.0	0	10
KS4428	2697	5	53.0	03/26	05/22	74	1.0	0	10
MH06E10	2655	5	51.3	03/24	05/21	72	1.0	0	10
Visby	2651	5	52.8	03/23	05/20	75	1.0	0	10
Wichita	2575	5	51.7	03/26	05/23	75	1.0	0	10
Sumner	2550	5	52.6	03/24	05/20	74	1.0	0	10
Virginia	2535	5	52.8	03/24	05/20	69	1.0	0	10
KS4083	2527	5	52.2	03/26	05/24	80	1.0	0	10
HPX-7341	2500	5	53.2	03/25	05/22	76	1.0	0	10
HyClass110W	2482	5	53.0	03/20	05/18	71	1.0	0	10
HPX-501	2480	5	53.9	03/30	05/24	78	1.0	0	10
VSX-3	2459	5	53.0	03/23	05/22	75	1.0	0	10
KS4426	2446	5	52.7	03/27	05/24	81	1.0	0	10
DKW44-10	2411	5	54.1	03/23	05/21	66	1.0	0	10
HyClass115W	2377	5	51.9	03/23	05/19	71	1.0	0	10
HyClass154W	2376	5	52.3	03/27	05/24	77	1.0	0	10
KADORE	2335	5	53.1	03/29	05/23	65	1.0	0	10
Baldur	2259	5	52.8	03/24	05/23	74	1.0	0	10
DKW46-15	2200	5	52.3	03/23	05/20	72	1.0	0	10
HPX-7228	2191	5	53.8	03/24	05/19	71	1.0	0	10
HYBRILUX	2171	5	52.7	03/26	05/23	77	1.0	0	10
Amanda	2152	5	52.5	03/28	05/24	73	1.0	0	10
Kiowa	2100	5	52.0	03/26	05/24	79	1.0	0	10
DKW47-15	2052	5	52.2	03/26	05/23	68	1.0	0	10
AAMU607	2044	5	52.8	03/20	05/18	65	1.0	0	10
AAMU3307	2005	5	51.8	03/16	05/20	69	1.0	0	10
Athena	1988	5	51.9	03/27	05/23	75	1.0	0	10
MH06E4	1985	5	51.9	03/23	05/21	76	1.0	0	10
Dimension	1966	5	51.1	03/22	05/19	72	1.0	0	10
HyClass125W	1881	5	52.4	03/23	05/19	71	1.0	0	10
Riley	1875	5	51.8	03/26	05/23	69	1.0	0	10
AAMU6407	1667	5	51.3	03/16	05/18	62	1.0	0	10
DKW41-10	1571	5	54.6	03/19	05/17	64	1.0	0	10
AAMU6207	1265	5	50.2	03/16	05/16	65	1.0	0	10
Average	2407 ⁴	5	52.4	03/24	05/21	72	1.0	0	10
LSD at 10% Level	683	-	1.2	02	03	4	-	-	-
Std. Err. of Entry Mean	291	-	0.5	01	01	2	-	-	-

Griffin, Georgia:

National Winter Canola Variety Trial, 2010-2011 (Continued)

1. Yields calculated as 50 lb/bu at 8.5% moisture.
2. Vigor rating: 1 = poor to 5 = excellent.
3. Lodging rating: 1.0 = all plants erect to 5.0 = over 80% of plants down.
4. C.V. = 20.9%, and df for EMS = 82.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD

Planted: October 5, 2010.

Harvested: June 3, 2011.

Seeding Rate: 5 lb/acre in 7" rows.

Soil Type: Cecil sandy loam.

Soil Test: P = High, K = High, and pH = 5.8.

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

Topdress: 130 lb N/acre.

Management: Chisel plowed, disked and rototilled; Treflan applied for weed control.

Previous Crop: Fallow.

Test conducted by J. Gassett and G. Ware.