



El Reno, OK Winter Canola Performance Trials

Observations:

An excellent stand was achieved in the fall and no winter kill was observed. Plants were 4-5 leaves going into winter dormancy. Yields were excellent given the dry start to the growing season. Overall, seed yields at El Reno averaged 3111 lb/ac in the Glyphosate resistant trial and 2803 lb/ac in the conventional test. Some lodging and shattering were observed prior to swathing and harvest. High winds hit the plot area 1 week prior to swathing that caused most of the lodging and shattering. Lodging was most likely a result of the excellent growth potential (thick stand, warm temperatures, and abundant moisture) we experienced in late winter and early spring. In most years we would not have to consider lodging to be a problem.

Table 1. Information on soil properties and management practices for El Reno, OK in 2011-2012.

Date Planted	27-Sep		
Soil Moisture at Planting	Dry	Fertilizer Applied (lbs/ac)	
Soil Characteristics		Fall Nitrogen	30
Pond Creek Silt Loam		Spring Nitrogen	100
		<i>Total Nitrogen</i>	130
		P ₂ O ₅	0
		K ₂ O	0
		Sulfur	10
Swathed	7-May		
Harvested	16-May		

Table 2. Selected cultivar characteristics and seed yields for the glyphosate tolerant winter canola performance trial at El Reno, OK in 2011-2012.

Cultivar	Company	Fall	Winter	Lodging	Estimated	Seed Yield 2011-2012
		Stand Rating [†]	Survival [‡]	Rating [#]	Shatter Loss	
		----- % -----			--- % ---	--- lb/ac ---
46W94	Pioneer Hi-Bred Int	100	100	1.7	10	3860
HYC115W	Croplan Genetics	100	100	1.3	13	3403
HYC125W	Croplan Genetics	100	100	1.0	13	3322
HYC154W	Croplan Genetics	100	100	1.0	10	3141
DKW 44-10	Dekalb	100	100	2.3	13	3141
KSR07352S	Kansas State Univ.	100	100	2.3	10	3115
KSR07363	Kansas State Univ.	100	100	2.0	10	3092
DKW 47-15	Dekalb	100	100	1.0	10	3078
DKW 46-15	Dekalb	100	100	1.0	10	3000
46W99	Pioneer Hi-Bred Int	100	100	2.3	13	2902
KSR07361	Kansas State Univ.	100	100	2.3	10	2702
DKW 41-10	Dekalb	100	100	1.0	17	2577
Mean						3111
LSD (P=0.05)						NS
CV						19

† Fall stand rating was based on ratings taken in November.

‡ Winter survival ratings were taken in the spring after winter dormancy was broken (rated as percent of the plot that survived).

Lodging rating was based on a 0 to 5 scale with 5 being the complete lodging of plot.

Table 3. Selected cultivar characteristics and seed yields for the conventional winter canola performance trial at El Reno, OK in 2011-2012.

Cultivar	Company	Fall	Winter	Lodging	Estimated	Seed Yield 2011-2012
		Stand Rating [†]	Survival [‡]	Rating [#]	Shatter Loss	
		----- % -----			--- % ---	--- lb/ac ---
Sitro	DL Seeds	100	100	1	10	3425
KS4083	Kansas State Univ.	100	100	1	10	2868
KS4428	Kansas State Univ.	100	100	1	10	2859
Wichita	Kansas State Univ.	100	100	1	10	2836
Baldur	DL Seeds	100	100	1	10	2795
Sumner	Kansas State Univ.	100	100	1	10	2735
Riley	Kansas State Univ.	100	100	1	10	2603
KS4564	Kansas State Univ.	100	100	2	10	2586
ClaremoreCL	Johnston Seed Co.	100	100	1	10	2521
Mean						2803
LSD (P=0.05)						NS
CV						17

† Fall stand rating was based ratings taken in November.

‡ Winter survival ratings were taken in the spring after winter dormancy was broken (rated as percent of the plot that survived).

Lodging rating was based on a 0 to 5 scale with 5 being the complete lodging of plot.