

Canola variety performance trial in 2004.

Randomized, replicated On-Farm trial located on Worley Seed Farm, 4.5 N on Rio Grande County Road 4 E. Trial conducted by Merlin Dillon, Area Extension Agent, Agronomy, San Luis Valley Research Center, Center, CO

Variety ²	Grain Yield ³	Bushel Weight	Heading Date ⁴	Grain Moisture	Plant Lodging	Oil Content
	lbs/ac	lbs/bu %	(July) inches %	%	%	%
DK 223	3658 a	48.1	12.3	9.9	23.8 a	
Hyola 401	3584 ab	49.8	11.5	9.7	23.8 b	
PHI-04-05	3561 ab	48.9	13.8	9.7	13.8 b	
PHI-04-01	3256 abc	51.8	11.3	8.3	27.5 c	
PHI-04-04	3253 abc	49.5	13.5	9.7	51.3 c	
Hylite 292 CL	3057 bc	49.9	15.5	11.4	81.3 c	
In Vigor 4870	2959 c	48.0	19.3	18.6	63.8 cd	
HyClass 905	2926 c	47.3	19.0	16.0	16.3 cd	
Blue-01-001	2854 c	50.1	11.0	10.3	2.5 d	
Ski Patriot RR	2820 c	49.1	12.5	11.6	65.0 d	
Trial Average	3193	49.2	14.0	11.5	36.9	
LSD, .10	307	0.7	0.9	1.0	16	
CV %	8.0	1.1	5.3	7.3	35	

² Mustard varieties include: In Vigor 4870 and PHI 04-01.

³ Tukey's Test: yields followed by the same letters are not statistically different. Grain yield based on 10 % moisture.

⁴ Days after July 1.

Site Information:

Trial Location: Worley Seed Farm field located at 4.5 north on Rio Grande County Road 4E.

Previous Crop: potatoes

Date Planted: May 17
Irrigation: center pivot
Herbicide: None
Nitrogen: 130 lbs/acre

Date Harvested: October 4
Seed Rate: 10 lbs/acre
Row Spacing: 8-inch
Plot Size: 6 ft. x 35'; 9 rows planted 8 inches apart

Comments:

The field in which this small plot, replicated trial was planted suffered severe wind erosion immediately after planting. The plot area had more moisture and suffered much less. Most of the field was replanted except for a small area near this plot. The field made only about 2000 lbs/acre. This trial averaged 3200 lbs/acre because it had plenty of fertilizer, plenty of water, few weeds and an excellent stand. The plots, had excellent germination; good stands that did not need replanting. The huge yield difference was probably because of the delayed date of replanting.

Since some of the varieties were not Roundup Ready, Roundup could not be applied. Even though the plots had no herbicide, weeds were not a problem. This was a great trial with excellent canola yields and good precision (low variability). Five varieties produced highest yields which ranged from 3253 to 3658 lbs per acre. Mustard varieties PHI 04-01 and Blue-01-001 produced and 3256 and 2854 lbs/ac, respectively. Mustard variety PHI 04-01 was part of the top yield group. Others in the top yield group were DK223, Hyola 401, PHI 04-05, and PHI 04-04.