




canola²⁰¹² PERFORMANCE TRIALS

Canola Pathology





Canola Performance Trials

WCC/RRC Trials

Objectives

- System Approach
- Commercial varieties including newly introduced varieties
- Conducted in an unbiased manner
- Provide economic information





Canola Performance Trials 2012


Small plot evaluation – standard replicated trials, blocked by system

Field Scale - audit seed companies field scale trials, review protocols


Economics - Gross Revenue and Contribution Margin Calculator included in the online version

Small Plot Locations throughout Western Canada



A total of 83 field scale trials were approved this year: AB=33, SK=27, MB=20, BC=3




Participants for 2012

Bayer, Brett Young, Canterra, Cargill, FP Genetics, Monsanto, Viterra



CANOLA PERFORMANCE TRIALS 2012 RESULTS

Average Results by Season Zone (small plot data)

Year	2012 Season Zone (average of 4 sites)				2013 Season Zone (average of 4 sites)				Cultivar
	Yield (t/ha)	Oil (%)	Protein (%)	Glucosinolates (%)	Yield (t/ha)	Oil (%)	Protein (%)	Glucosinolates (%)	
2012	3.2	48.7	1.9	4.8	3.2	48.7	1.9	4.8	Westar
2013	3.1	48.5	1.8	4.9	3.1	48.5	1.8	4.9	Westar
2012	3.3	48.8	1.9	4.7	3.3	48.8	1.9	4.7	Westar
2013	3.2	48.6	1.8	4.8	3.2	48.6	1.8	4.8	Westar
2012	3.0	48.4	1.7	4.9	3.0	48.4	1.7	4.9	Westar
2013	3.1	48.5	1.8	4.8	3.1	48.5	1.8	4.8	Westar
2012	3.4	48.9	2.0	4.6	3.4	48.9	2.0	4.6	Westar
2013	3.3	48.7	1.9	4.7	3.3	48.7	1.9	4.7	Westar
2012	3.1	48.5	1.8	4.8	3.1	48.5	1.8	4.8	Westar
2013	3.2	48.6	1.9	4.7	3.2	48.6	1.9	4.7	Westar
2012	3.5	49.0	2.0	4.5	3.5	49.0	2.0	4.5	Westar
2013	3.4	48.8	1.9	4.6	3.4	48.8	1.9	4.6	Westar
2012	3.2	48.6	1.8	4.8	3.2	48.6	1.8	4.8	Westar
2013	3.3	48.7	1.9	4.7	3.3	48.7	1.9	4.7	Westar
2012	3.6	49.1	2.0	4.4	3.6	49.1	2.0	4.4	Westar
2013	3.5	48.9	1.9	4.5	3.5	48.9	1.9	4.5	Westar
2012	3.7	49.2	2.0	4.3	3.7	49.2	2.0	4.3	Westar
2013	3.6	49.0	1.9	4.4	3.6	49.0	1.9	4.4	Westar
2012	3.8	49.3	2.0	4.2	3.8	49.3	2.0	4.2	Westar
2013	3.7	49.1	1.9	4.3	3.7	49.1	1.9	4.3	Westar
2012	3.9	49.4	2.0	4.1	3.9	49.4	2.0	4.1	Westar
2013	3.8	49.2	1.9	4.2	3.8	49.2	1.9	4.2	Westar
2012	4.0	49.5	2.0	4.0	4.0	49.5	2.0	4.0	Westar
2013	3.9	49.3	1.9	4.1	3.9	49.3	1.9	4.1	Westar
2012	4.1	49.6	2.0	3.9	4.1	49.6	2.0	3.9	Westar
2013	4.0	49.4	1.9	4.0	4.0	49.4	1.9	4.0	Westar
2012	4.2	49.7	2.0	3.8	4.2	49.7	2.0	3.8	Westar
2013	4.1	49.5	1.9	3.9	4.1	49.5	1.9	3.9	Westar
2012	4.3	49.8	2.0	3.7	4.3	49.8	2.0	3.7	Westar
2013	4.2	49.6	1.9	3.8	4.2	49.6	1.9	3.8	Westar
2012	4.4	49.9	2.0	3.6	4.4	49.9	2.0	3.6	Westar
2013	4.3	49.7	1.9	3.7	4.3	49.7	1.9	3.7	Westar
2012	4.5	50.0	2.0	3.5	4.5	50.0	2.0	3.5	Westar
2013	4.4	49.8	1.9	3.6	4.4	49.8	1.9	3.6	Westar
2012	4.6	50.1	2.0	3.4	4.6	50.1	2.0	3.4	Westar
2013	4.5	49.9	1.9	3.5	4.5	49.9	1.9	3.5	Westar
2012	4.7	50.2	2.0	3.3	4.7	50.2	2.0	3.3	Westar
2013	4.6	50.0	1.9	3.4	4.6	50.0	1.9	3.4	Westar
2012	4.8	50.3	2.0	3.2	4.8	50.3	2.0	3.2	Westar
2013	4.7	50.1	1.9	3.3	4.7	50.1	1.9	3.3	Westar
2012	4.9	50.4	2.0	3.1	4.9	50.4	2.0	3.1	Westar
2013	4.8	50.2	1.9	3.2	4.8	50.2	1.9	3.2	Westar
2012	5.0	50.5	2.0	3.0	5.0	50.5	2.0	3.0	Westar
2013	4.9	50.3	1.9	3.1	4.9	50.3	1.9	3.1	Westar

WCC/RRC sites
 2 years testing
 1st year Private
 2nd year Public 23 Sites
 9 Blackleg testing sites

WCC/RRC
 Oil
 Protein
 Glucosinolates
 Saturates

Blackleg


-
- 100 Plants per site
 - Minimum 3 site years
 - 0 - no diseased tissue visible in the cross-section
 - 1 - Diseased tissue occupies up to 25% of cross-section
 - 2 - Diseased tissue occupies 26-50% of cross-section
 - 3 - Diseased tissue occupies 51-75% of cross-section
 - 4 - Diseased tissue occupies more than 75% of cross-section with little or no constriction of affected tissues
 - 5 - Diseased tissue occupies 100% of cross-section with significant constriction of affected tissues; tissue dry and brittle; plant dead.

Westar must be included as an entry in each blackleg trial. Valid if Westar mean between 2.6 to 4.5, in poor disease years a rating of 2.0 is acceptable

The ratings are converted to a percentage severity index


Classification Rating (% of Westar)

R (Resistant) <30
 MR (Moderately Resistant) 30 – 49
 MS (Moderately Susceptible) 50 – 69
 S (Susceptible) 70 - 100



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Sclerotinia





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No Formal Protocol or labeling system in place yet
Not for advancement for labeling purpose.


Inoculum in the form of ascospores or mycelium applied at 20% bloom. A second inoculation at mid flowering stage (50% bloom) may be applied if conditions have not been favorable following earlier inoculation.

Last year all sites in Manitoba heat during flowering resulted in no useable sites



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Clubroot Testing



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Left up to the private companies
No formal label

