



## Canola

P.M. Porter and D.G. LeGare  
Varietal Trials Results, January 2007



Canola (*Brassica napus* and *B. rapa*) is a crop developed from oilseed rape by Canadian plant breeders; the first canola variety was licensed in 1974. Canola is used for edible oil extraction and protein feed meal. Canola oil is considered one of the highest quality edible oils available. Considerable acreage of spring canola is grown in Canada. Minnesota acreage increased from about 8,000 acres in 1990 to more than 200,000 acres in 1998. Acreage in recent years has declined to less than 60,000 acres.

The oil in canola seed contains less than 2% erucic acid, compared with 20% to 40% found in oilseed rape. The canola meal remaining after oil extraction contains less than 0.1% glucosinolates (sulfur-containing compounds) compared with about 1% in rapeseed meal. Consequently, canola is also referred to as “double low” or “00” rapeseed. High levels of erucic acid in oilseed rape are hazardous to human health, and high levels of glucosinolates are detrimental in livestock feeds.

Canola (*Brassica napus*) varieties are either spring types or fall-planted winter types. Historically, most all canola grown in Minnesota has been spring types. Fall-planted winter-type canola varieties were evaluated by University of Minnesota researchers more than 15 years ago with limited success due to winter/spring mortality. Since 2002 research on fall-planted winter-type canola varieties has been conducted in Minnesota, again with limited success. Advances in variety development and agronomic production

practices provide encouragement that fall-planted winter-type canola can be successfully grown in Minnesota.

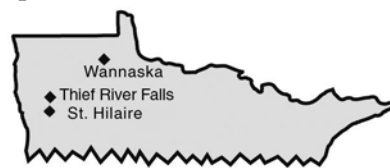
### Information Sources

The Minnesota Canola Council is a good source for information on canola. The council can be contacted by mail, 4630 Churchill St., Suite 1, St. Paul, MN 55126. Phone 651-638-9883, fax 651-638-0756; email, [mncanola@comcast.net](mailto:mncanola@comcast.net).

A complete and revised *Canola Growers Manual* on canola production is available from the Canola Council of Canada, 400-167 Lombard Ave, Winnipeg, Manitoba, Canada, R3B 0T6. Phone 204-982-2100, internet, [www.canola-council.org](http://www.canola-council.org). The manual contains detailed information on canola production practices. Note the *Canola Growers Manual* is also available online at [www.canola-council.org](http://www.canola-council.org). Please keep in mind when using this manual that not all pesticides used in Canada are legal in the United States. Always confirm the clearance of a pesticide with your local dealer or county extension educator.

### Test Sites

Non-Roundup Ready and Roundup Ready® and Non-Roundup Ready spring-type variety trials were seeded at one site near Wannaska south of Roseau in 2006. This also was the site for the 2006 Canola Production Centre. Unfortunately, because of lack of sufficient rainfall for nearly 30 days after planting, canola germination and emergence was uneven and not satisfactory for adequate stands and calculations of



Locations of 2006 canola trials.

meaningful yield information; consequently, no data were recorded for those trials.

The 2005-2006 fall-planted winter-type canola trial was located on the Monte Cassavan farm west of St. Hilaire.

### Yield of fall-planted winter-type canola varieties grown near St. Hilaire in 2005-2006 and Thief River Falls in 2004-2005. Planting occurred in early September and harvest in late July.

Variety	2006 Yield, Lb/Acre	2005 Yield, Lb/Acre
KS3018	2,246	717
KS7436	1,897	1,076
KS3350	1,778	—
VSX-2	1,771	—
Baldur	1,760	—
ARC2180-1	1,632	—
ARC97019	1,619	—
ARC97018	1,613	—
KS3067	1,604	—
Jetton	1,573	—
Virginia	1,572	—
Rasmus	1,559	—
ARC98007	1,539	—
Casino	1,537	1,051
KS3068	1,536	—
DSV 05100	1,530	—
KS9135	1,504	1,069
KS2064	1,467	1,006
DSV 05101	1,465	—
Sumner	1,462	987
KS9124	1,458	1,017
Wichita	1,446	1,074
ARC98015	1,424	—
Kronos	1,395	1,134
DSV 05104	1,385	—
KS3254	1,366	—
DSV 05102	1,351	—
KS3074	1,331	—
Ceres	1,326	—
KS2185	1,316	1,244
DSV 05103	1,294	—
Abilene	1,282	—
TCI Exp 983	1,277	—
Plainsman	1,111	555
Mean	1,513	958
LSD (0.05)	419.0	296.5
CV (%)	19.7	18.6
Pr>F	0.0049	0