



**DEKALB®
Brand
Winter
Canola**

DKW13-69

More Oil and Higher Yield Potential

DKW13-69, introduced for the 2007-2008 growing season, is a widely adapted, high-yield potential Roundup Ready® Winter Canola variety with increased oil content.

Key Strengths

- Roundup Ready technology.
- Widely adapted, high-yield potential.
- Excellent seedling vigor and improved winter survival.
- Above-average oil content.
- Medium maturity for timely harvest.

Management Tips

Performs well on most soil types.
Slightly (1-2 days) later maturity than DKW13-86.

Agronomic Traits

Management

Average % Oil Content	41.4
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Plant Description

Plant Height (in.)	46
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Winter Survival	2
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Yield Potential	2
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Maturity	M
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Planting/Growth

Bolting	M
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Plant Vigor	1
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Seed Size	M
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Seeds per Pound	115,000
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Harvest

Lodging Rating	1
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ROUNDUP READY WINTER CANOLA

a simple, more profitable production system

PRODUCT DESCRIPTION

Roundup Ready Winter Canola varieties have been developed for seeding in the fall and harvesting the following spring/summer. Roundup Ready Winter Canola varieties contain in-plant tolerance to Roundup® agricultural herbicides, enabling growers to apply Roundup agricultural herbicides over the top of Roundup Ready Winter Canola anytime from emergence to canopy closure or prior to bolting in the spring. The introduction of the Roundup trait into winter canola varieties provides growers with unsurpassed weed control, crop safety and maximum yield potential when used in the Roundup Ready system. Roundup Ready Winter Canola offers growers an important option as a rotational crop in traditional monoculture winter wheat production areas. Introducing crop rotation is an important factor in reducing pest cycles, including weed and disease problems.

ROUNDUP AGRICULTURAL OVER-THE-TOP HERBICIDE PRODUCTS

Herbicide products sold by Monsanto for use over the top of Roundup Ready Winter Canola for the 2008 crop season are as follow:

- Roundup WeatherMAX®
- Roundup Original MAX®

WEED RESISTANCE MANAGEMENT GUIDELINES

Follow the guidelines below to reduce the risk of developing glyphosate-resistant weed populations in a Roundup Ready Winter Canola system:

- Scout fields before and after each burndown and in-crop application.
- Start clean with a burndown herbicide or tillage.
- In-crop, apply Roundup WeatherMAX herbicide at labeled rate before weeds exceed 3".
- A sequential application of Roundup WeatherMAX herbicide at labeled rate may be needed.
- Clean equipment before moving from field to field to minimize the spread of weed seed.
- Report repeated non-performance to Monsanto or your local retailer.

WEED CONTROL RECOMMENDATIONS (WINTER-SEEDED)

PROGRAM	INSTRUCTIONS AND USE RATES	ADDITIONAL INFORMATION
Sequential Applications	The two-pass program gives the greatest flexibility in controlling late-emerging weeds. For broad-spectrum weed control, apply 11 to 22 oz./A of Roundup WeatherMAX® herbicide to 2-leaf or larger Roundup Ready® Winter Canola in the fall. Use 5 to 10 gallons/A water volume. Do not add surfactants. Apply a second application of Roundup WeatherMAX® at 11 to 22 oz./A at a minimum interval of 60 days after the first application and before bolting in the spring. Do not exceed 22 oz./A per applications.	Spray when Roundup® Winter Canola is at the 2-3 leaf stage of growth. Early applications can eliminate competing weeds and improve yield potential. Two applications of Roundup WeatherMAX will provide control of early-emerging annual weeds and winter-emerging weeds such as downy brome, cheat and jointed goat grass.
Single Application	For broad-spectrum control of annual and easy-to-control perennial weeds, make a single application of 16 to 22 oz./A of Roundup WeatherMAX, preferably in the fall.	For best results, spray Roundup Ready Winter Canola at the 2-3 leaf stage and when weeds are small and actively growing. Applications must be made prior to bolting. Use the higher rate in the range when weed densities are high, when weeds have overwintered or when weeds become large and well established.
Maximum Use Rate for Roundup WeatherMAX	Any single over-the-top application of Roundup WeatherMAX® should not exceed 22 oz./A. No more than two over-the-top applications may be made from crop emergence to canopy closure prior to bolting in the spring.	Applications of greater than 16 fl. oz./A prior to the 6-leaf stage may result in temporary yellowing and/or growth reduction.

*Spray grade ammonium sulfate (AMS) may be required where hard water conditions exist. Seventeen pounds of spray grade AMS per 100 gallons of water should be added where hard water conditions exist. AMS should be added to the spray solution prior to the addition of Roundup agricultural herbicide.

PURCHASING AND PROTECTING ROUNDUP READY WINTER CANOLA TECHNOLOGY

As with other Monsanto trait technologies, growers must sign an MTSA before purchasing Roundup Ready Winter Canola. It is available only through Monsanto Authorized Retailers. Growers who observe, respect and support the MTSA are protecting their own interests by helping maintain a "level playing field" for all users of the technology. This enables research and development to continue so that new technologies that further boost efficiency and productivity can be brought to market.

Codes/Symbols:

E = Early
M = Medium
F = Full
S = Small

Value-Added Trait:

RR = Roundup Ready®

Rating Scale:

1-2 = Excellent
3-4 = Very Good
5-6 = Good
7-8 = Fair
9 = Poor

Always Read and Follow Label Directions for All Products. Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® agricultural herbicides. Roundup® agricultural herbicides will kill crops that are not tolerant to glyphosate. The agronomic ratings stated in the product agronomic charts were developed from Asgrow's and DEKALB's internally conducted trials, which utilize commonly accepted methodology. These ratings can be used for comparative purposes between established and newly released products. They may not reflect total comparative performance. Actual performance may vary based on a number of factors, including without limitation the prevalence of the disease-causing organism or insect pest and environmental conditions. Product choice should be based on all performance information and not on pest reaction alone. Powerful Science. Powerful Seed.®, Roundup®, Roundup Original MAX®, Roundup Ready®, Roundup Rewards® and Roundup WeatherMAX® are trademarks of Monsanto Technology LLC. DEKALB® and the Winged Ear Design are trademarks of DeKalb Genetics Corporation. All other trademarks are the property of their respective owners.
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