



Active Ingredient  
**DICAMBA +  
GLYPHOSATE**  
(Group 4 & 9)

Storage  
**ABOVE -10°C**  
to remain in  
solution.

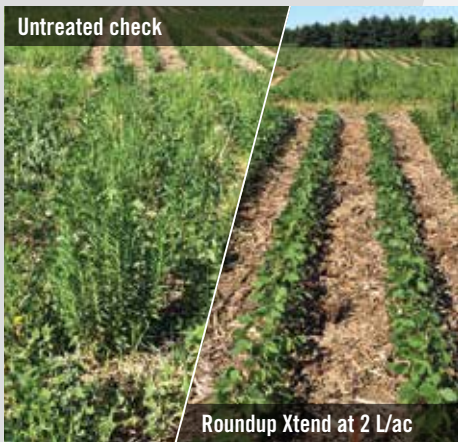
Packaging  
**2 X 10L**  
(Jugs)

Crops  
**ROUNDUP READY 2  
XTEND  
SOYBEANS**  
For other crops,  
see label.

## THE NEXT STEP IN WEED CONTROL

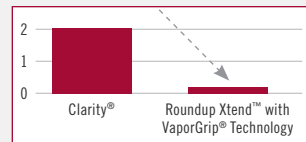
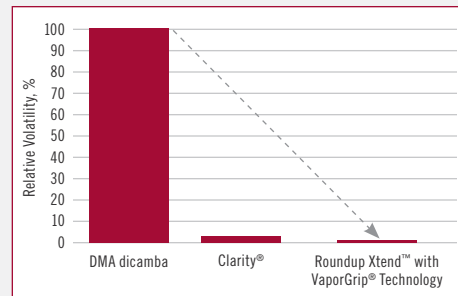
Roundup Xtend™ herbicide with VaporGrip® Technology is a low-volatility liquid glyphosate and dicamba pre-mix formulation developed for use in the Roundup Ready® Xtend Crop System.

Helps manage weed resistance  
by controlling glyphosate-resistant weeds



Photos taken on June 29, 2016 at the University of Guelph, Ridgetown, ON, 20 days after application.

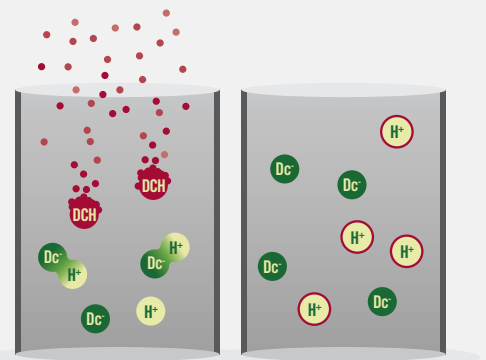
Relative volatility of pre-mix herbicide  
containing VaporGrip® Technology  
(Relative volatility as measured in humidome testing)



DMA or acid  
formulations of  
dicamba will NOT  
be permitted.

Source: Monsanto company humidome testing, St Louis.  
Clarity® herbicide is a U.S. herbicide product. It is registered  
in Canada as Banvel® II.

Reduced volatility through the proprietary  
**VAPORGRIP® TECHNOLOGY**



In older dicamba  
formulations, dicamba ions  
(Dc<sup>-</sup>) present in solution  
combine with free hydrogen  
ions (H<sup>+</sup>) to form volatile  
dicamba acid (DCH).

VaporGrip® Technology  
prevents dicamba ions (Dc<sup>-</sup>)  
from combining with hydrogen  
ions (H<sup>+</sup>), providing a step-  
change reduction in volatility.

## KEY WEEDS CONTROLLED:

### Annual broadleaf weeds:

Annual sow thistle, biennial wormwood, buckwheat (tartary, wild), bur cucumber, Canada fleabane, chickweed, cleavers, cocklebur, common lamb's quarters, corn spurry, cow cockle, Eastern black nightshade, flixweed, green smartweed, hempnettle, kochia, lady's thumb, mustard (wild, hare's ear, Indian, tumble, wormseed), narrow-leaved hawk's beard, narrow-leaved vetch, night-flowering

catchfly, Pennsylvania smartweed, pigweed (redroot, Russian, smooth), prickly lettuce, ragweed (common, false, giant), round-leaved mallow, Russian thistle, shepherd's purse, stinkweed, stork's bill, velvetleaf, volunteer adzuki beans, volunteer canola (non glyphosate-tolerant), volunteer flax, wild tomato

### Annual grass weeds:

Annual blue grass, barnyard grass, crabgrass (smooth, large), downy brome, fall panicum, foxtail

(green, yellow), Persian darnel, volunteer barley, volunteer wheat, wild proso millet, wild oats

### Perennial weeds:

Perennial sow thistle, foxtail barley, Canada thistle, common milkweed, dandelion, field bindweed, quackgrass, wire-stemmed muhly, yellow nutsedge

Roundup Xtend™ gives you the ease of  
incorporating dual modes of action in the tank  
through the convenience of a pre-mix formulation.

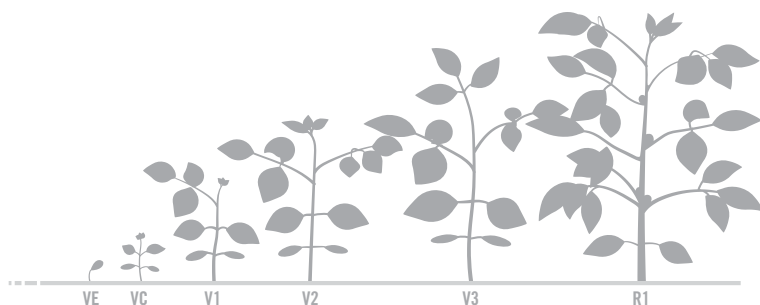
Refer to label to determine rates and staging required for individual weed species.



Crop  
Management  
Solutions



## APPLICATION GUIDELINES FOR ROUNDUP READY 2 XTEND® SOYBEANS



Preferred application window for 2 L/ac rate, to maximize residual weed control benefits

Application window for Roundup Xtend™ with VaporGrip® Technology in Roundup Ready 2 Xtend® soybeans

### Equivalent dose of Roundup WeatherMAX® and XtendiMax® when using Roundup Xtend with VaporGrip Technology

At 2 L/ac = 0.9 L/ac Roundup WeatherMAX + 0.7 L/ac XtendiMax

At 1.5 L/ac = 0.67 L/ac Roundup WeatherMAX + 0.5 L/ac XtendiMax

At 1 L/ac = 0.45 L/ac Roundup WeatherMAX + 0.35 L/ac XtendiMax

### Pre-plant/pre-emergence

**1, 1.5 or 2 L/ac (2.5, 3.75 or 5 L/ha)**

Note: 2 L/ac is preferred for maximum residual opportunity and the most consistent weed control.

### Post-emergence (up to R1)

**1, 1.5 or 2 L/ac (2.5, 3.75 or 5 L/ha)**

Note: Up to two post applications per season. Second post application should only be used for control of glyphosate-resistant weeds.

*The 2 L/ac rate can be used only once in a season and should be applied pre-plant, pre-emergence or in-crop early post-emergence (up to the V2 growth stage). 4 L/ac is the maximum total to be applied in a single season.*

## APPLICATION REQUIREMENTS

- Water volume: Minimum 10 GPA
- Spray quality/nozzle selection: Extremely Coarse (XC) to Ultra Coarse (UC) droplets
- Target weed size: Less than 10 cm (4 in.) tall
- Ground speed: Less than 25 km/h (15 mph)
- Boom height: No higher than 50 cm (20 in.) above canopy or target weeds
- Wind speeds: 5-15 km/h
- Maintain label buffer
- Ammonium sulfate (AMS) and ammonium-based additives are not authorized
- Be aware of sensitive crops in adjacent fields. Only apply when the potential for drift is minimal

## TANK CLEANOUT PROCEDURE

Minute quantities of dicamba may cause injury to soybean varieties that are not tolerant to dicamba and to other sensitive crops. Clean equipment using a triple rinse procedure:

1. Drain sprayer.
2. Flush tank, hoses, boom and nozzles with clean water.
3. Prepare a cleaning solution with an ammonia based commercial cleaner.
4. Remove and soak all strainers, screens and filters in the solution.
5. Fill tank with cleaning solution. Agitate and recirculate.
6. Flush hoses, lines and nozzles with cleaning solution.
7. Repeat steps 1 and 2.

## TANK MIXTURES

Roundup Xtend may be tank mixed with other herbicides to provide residual weed control, a broader spectrum of weed control, an alternate mode of action or to increase the application rate of glyphosate.

For product recommendations and more specific weed control options, visit [MonsantoCMS.ca](http://MonsantoCMS.ca).

## RE-CROPPING RESTRICTIONS

Allow at least 120 days for those crops not on the Roundup Xtend herbicide label. Do not count days when the ground is frozen. If dry weather prevails after application, crop injury may occur to sensitive crops in the spring following application.

