

Clarification of Confusion Concerning Syngenta's Touchdown IQ

Product Use on Roundup Ready Cotton

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There has been some confusion concerning the use of Touchdown IQ herbicide on Roundup Ready cotton. Perhaps the following comments will help. Glyphosate (Roundup Ultra) is an isopropylamine salt of N-phosphonomethyl glycine. The Touchdown IQ (3 lb glyphosate acid per gallon) material **WHICH HAS BEEN LABELED** for Roundup Ready cotton is a diammonium salt of N-(phosphonomethyl) glycine.

See the Touchdown IQ label available at www.greenbook.net , enter Touchdown and see page 6. or go to: www.cdms.net/ldat/ld4BG002.pdf , page 7

Both herbicides contain the same active ingredient, only the salt formulation and surfactants are different. The differences in the efficacy of these materials for weed control are generally very minimal according to various weed scientists. For very good comments concerning this from Dr. Bob Hartzler (Iowa State University) go to:

www.weeds.iastate.edu/mgmt/2001/glyphosateformulations.htm

Syngenta's Touchdown 5 WAS NEVER LABELED for Roundup Ready cotton and has a different salt (trimethylsulfonium salt or TMS) of the N-(phosphonomethyl) glycine acid. This formulation is different from BOTH Roundup Ultra AND Touchdown IQ. This herbicide HAS shown some phytotoxicity problems in Roundup Ready cotton. **The TMS salt formulation used in Touchdown 5 HAS been identified as the problem with this formulation.**

For a good chart that compares the various glyphosate materials, their salt formulations, manufacturers and Roundup Ready crops they are labeled for see:

www.syngentacropprotection-us.com/prod/herbicide/touchdown/index.asp?nav=glyphchart

Of course when you do not use an approved Monsanto brand Roundup formulation for burndown or in-crop applications, the Roundup Rewards Value Package is voided. However, Syngenta has established the Touchdown Assurance Program for eligible stripper cotton varieties (including Paymaster 2145RR, Paymaster 2156RR, Paymaster 2200RR, Paymaster 2326RR, and Paymaster 2379RR). This program enables producers to apply Touchdown to Roundup Ready cotton and Syngenta will provide replant and crop destruct programs. There are lots of qualifications for this and producers should make inquiry with local Syngenta representatives and read the fine print. Some of the disqualifications include: certain Texas counties are excluded; stand failure must be verified; claims must be filed with Syngenta representatives not later than July 13, 2001 or 60 days following planting - whichever occurs first; offer does not apply to ultra-narrow row cotton.

Table 1. Comparison of Roundup Ultra and other glyphosate formulations.¹

Formulation	Salt	Active Ingredient (lb/gal)	Acid equivalent (lb/gal)	Equivalent rates of product (a.e. basis)
Roundup Ultra	isopropylamine	4	3	32 oz
Roundup UltraMAX	isopropylamine	5	3.7	26 oz
Touchdown IQ	diammonium	3.6	3	32 oz
Touchdown 5 (not labeled for Roundup Ready cotton)	trimethylsulfonium	5	3.4	28 oz
Glyphomax	isopropylamine	4	3	32 oz

¹After Hartzler - Which glyphosate product is best.

To obtain the supplemental label for Roundup UltraMAX for use on Roundup Ready cotton, use this link:

<http://www.greenbook.net/>

Another Web site for label information is:

<http://www.cdms.net>

Note: If the hyperlinks in this document do not function, copy the location and paste into the address section of your Web browser.