



Do You Know Where Your Growers Traits Are?

With the growth of traits in corn and particularly “Triple Stack” it is important to know which traits your growers have planted in a given field for a number of reasons:

- ✓ Many growers jumped on the bandwagon and bought “Triple Stack”. It appears that the sales of “Triple Stack” were extremely successful as the seed industry appears to be sold out. Growers purchased “Triple Stack”, but do they really know what they have?
 - Initially when we hear the term “Triple Stack” we think of RR 2⁴ + Yield Guard⁴ Bt + Yield Guard Corn Rootworm. That represents most of the “Triple Stack” available for 2007
 - There are some “Triple Stack” hybrids which contain Liberty Link² + Herculex XTRA³.
 - Spraying glyphosate on a “Triple Stack” hybrid which contains the trait for Liberty resistance or vice versa would prove devastating.
 - Realize that there are also some “Quad Stack” hybrids for the 2007 season which contain Liberty Link + Herculex XTRA and the RR 2 trait, and either glyphosate or Liberty could be used on these hybrids.
- ✓ With the anticipated increase in corn acres and the potential for continuous corn in 2007 and beyond, properly positioning herbicide traits can allow the use of herbicides to control volunteer corn in the following year’s corn.
 - Volunteer corn is very competitive weed and our inability to control it prior to the introduction of herbicide traits in corn is a part of the continuous corn yield drag discussion.
 - Glyphosate, Liberty and Lightning¹ are all effective for control of volunteer corn, providing you have the trait in corn and not in the vol. corn.
 - In order for growers to take advantage of the herbicide trait for volunteer corn control it is imperative that we know what herbicide trait was used in the field the previous season.
- ✓ There are growers who have purchased Roundup corn and plan on treating this corn with glyphosate as a part of their weed control program. Do they understand that not all Roundup Ready corn is the same? There are currently two different traits being marketed – RR 2 and GA 21. There are differences with these traits with respect to what glyphosate product can be applied, at what rate, to what size of corn.
 - Monsanto originally introduced GA21 as their initial Roundup Ready⁴ Corn offering. They have since transitioned to the RR 2 trait. Monsanto increased the size of the application window on RR 2 corn and has a supplemental label allowing higher rates (32 ozs. of Roundup Weathermax / application with a maximum of 2 in crop applications). Touchdown⁵, Cornerstone[®] and many other private label and generic glyphosates have similar supplemental labels.
 - Syngenta has introduced and is marketing the GA21 event as AgriSure⁵ GT corn. This trait is available in Syngenta seed brands as well as from other seed companies (CROPLAN Genetics 691BT is an AgriSure GT product).
 - Today, technically the only products which can be applied to AgriSure GT corn are Touchdown Total and Touchdown Hi Tech. Monsanto, Dow AgroSciences and private label / generic brands of glyphosate all make reference to applications to corn with the Roundup Ready Trait. The Touchdown labels are the only labels that recognize both Roundup Ready and AgriSure GT traits for in-crop applications to corn.
 - Monsanto has applied for a 2ee label for use of Roundup brands on AgriSure GT corn. I would expect private label and generic products to follow Monsanto’s lead, issuing 2ee labels shortly after the Monsanto labels issue. These labels should issue prior to the postemergence applications of glyphosate to corn.
 - Applicators will need to have the 2ee label when applying of Roundup brands, private label or generic glyphosate products to AgriSure GT corn.

Application of Glyphosate to RR2 and AgriSure GT Corn

Glyphosate Brand	Growth Stage (height) of Corn	RR 2 Corn	AgriSure GT Corn*
Roundup	Up to V8 or 30", whichever comes first	Application of up to 1.125#ae/A (32 ozs. of Weathermax)/ application	Application of up to 0.75#ae/A (22 ozs. of Weathermax)/ application
	From 30-48" with drop nozzles	Application of up to 1.125#ae/A (32 ozs. of Weathermax)/ application	Not labeled
	Sum of all in crop applications	Maximum of 2 in crop applications not to exceed a total of 2.25#ae/A (64 ozs. of Weathermax).	Maximum of 2 in crop applications not to exceed a total of 1.5#ae/A (44 ozs. of Weathermax).
Touchdown	Up to V8 or 30", whichever comes first	Application of up to 1.14#ae/A (35 ozs. of Total)/ application	Application of up to 1.14#ae/A (35 ozs. of Total)/ application
	From 30-48" with drop nozzles	Application of up to 1.14#ae/A (35 ozs. of Total)/ application	Application of up to 1.14#ae/A (35 ozs. of Total)/ application
	Sum of all in crop applications	Maximum of 2 in crop applications not to exceed a total of 2.28#ae/A (70 ozs. of Total)	Maximum of 2 in crop applications not to exceed a total of 2.28#ae/A (70 ozs. of Total)

* Pending EPA approval of 2ee label for application of Roundup brands to AgriSure GT corn.

Applicator must be in possession of a Roundup brand 2ee label when applying a Roundup brand To AgriSure GT corn.

While you may be thinking at this point that this trait business has gotten awful confusing; just think how some of your growers might react to this newsletter. Truth is that, as we continue to expand the trait offerings this topic will likely get more, not less complex. I believe that the opportunity the seed industry has been promising, for going on 10 years now, is finally upon us. There are finally circumstances where understanding the various traits and how to match different traits with different chemistries can increase the value of the traits to the grower and ultimately increase his profitability. Ag retail has struggled to differentiate itself from more traditional seed sales channels. If growers are going to extract the full value from traits, they will need to make their seed buying decisions from an individual who not only understands the seed offerings but who also understands the chemistries and how they complement the various traits. Who better than their local CROPLAN Genetics Ag Retailer to be that individual

Cornerstone is a registered trademark of Agriliance LLC

¹ Lightning is a registered trademark of BASF

² Liberty Link is a registered trademark of Bayer

³ Herculex XTRA is a registered Trademark of Dow AgroSciences LLC

⁴ Roundup, Roundup Ready, RR2, and Yield Guard are registered trademarks of Monsanto Technology LLC

⁵ Touchdown and AgriSure are registered trademarks of Syngenta Group Company

This publication does not substitute for a label. Always read and follow label directions

Cornerstone and all AgriSolutions product labels and MSDS sheets can be found at www.edms.net