

TALKING TO YOUR CUSTOMERS ABOUT DROUGHTGARD® HYBRIDS

DroughtGard®
HYBRIDS

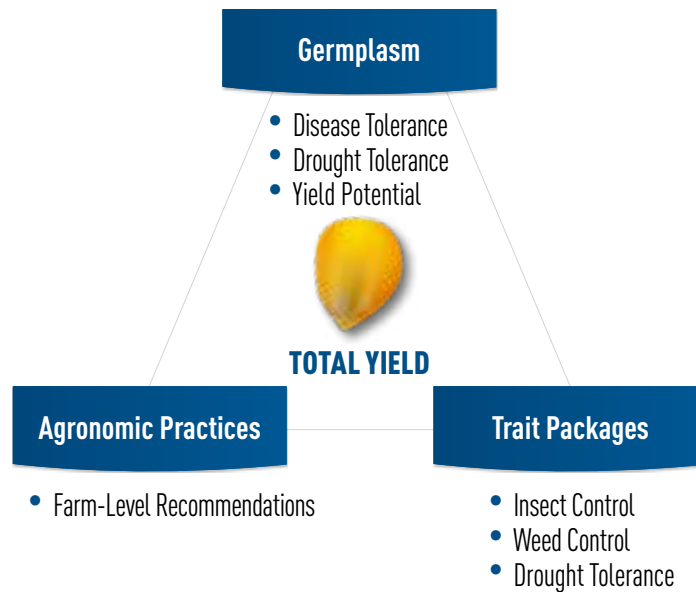
YIELDS IN EVERY GROWING CONDITION

DroughtGard® Hybrids corn products are part of a systems approach to help farmers manage risk by mitigating yield loss caused by drought. The system offers farmers improved genetics, agronomic practice recommendations and the industry's first and only drought-tolerant biotech trait to help corn do more with less water, which can result in increased kernel numbers and reduced frequency of barren plants, providing the opportunity to reduce yield loss in certain drought conditions.

DO MORE WITH LESS WATER

- The first drought system to help manage risk while offering measurable yield potential
- The world's first and only drought-tolerant biotech trait for corn
- Yield potential when there is drought stress

A SYSTEMS APPROACH HELPING FARMERS MANAGE RISK



> 5 bu/a ADVANTAGE*
versus drought-tolerant competitors



*2013-2015 Monsanto Trials across the Western Great Plains and Corn Belt. All trials are head-to-head comparisons using +/- 2 RMs and calculated using 15 percent moisture. Data represents weighted average results of leading DroughtGard® Hybrids products vs. drought-tolerant competitors.

For more information, go to Genuity.com/DroughtGard

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THE SCIENCE OF DROUGHT REACTION

Without the cspB gene:

The lack of water during drought conditions sets off a chain reaction within a corn plant, limiting the cell's ability to translate the encoded genetic information, which disrupts protein production, reducing plant growth/formation.

With the cspB gene:

DroughtGard® Hybrids corn products utilize a beneficial cspB (cold shock protein B) inside the plant to help reduce the impacts of drought stress. cspB is a gene derived from a naturally occurring soil bacterium, *Bacillus subtilis*. During drought stress, cspB prevents RNA strands from folding, allowing the plant to continue protein production, maintaining photosynthesis for growth and grain fill.

THE DUAL ADVANCEMENT PROCESS

Genetic Selection

Potential DroughtGard® Hybrids products are tested across multiple years and environments to identify the ones that offer an ability to tolerate stressful growing conditions, including drought.

- To be considered for having the trait added, a corn product must be selected by proving its ability to yield better than other products in normal and drought conditions.

Insertion and Testing

After selection for native drought stress tolerance, the drought-tolerant biotech trait is integrated into potential DroughtGard® Hybrids products. The enhanced hybrid must go through further field testing phases to confirm performance at a high level under drought-stress conditions.

Product Selection

Not every seed can benefit from the trait. Only hybrids that meet yield performance standards in both steps become a DroughtGard® Hybrids product.

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Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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