

DROUGHTGARD® HYBRIDS CORN PRODUCT PERFORMANCE BY POPULATION DENSITY

TRIAL OVERVIEW

• In geographies where corn production is limited by water availability, products that can produce high yields while using water efficiently are in high demand. DroughtGard® Hybrids corn products are the result of a combination of traditional breeding and trait technology and are well suited for areas prone to high levels of water stress and drought, such as areas of the great plains including Kansas, Texas, and Nebraska. These products may also be beneficial in areas with traditionally high yielding environments where water is typically not the most limiting factor, particularly when unexpected drought conditions arise. The effect of population density on yield in expanded geographies will influence management decisions on a field-by-field basis.

RESEARCH OBJECTIVE

- Determine how DroughtGard® Hybrids corn products perform in expanded geographies of lowa.
- Evaluate the effects of planting population on the yield of DroughtGard® Hybrids corn products.

Location	Soil	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield/Acre	Planting Rate/Acre
Huxley, IA	Nicollet loam/ Webster clay loam	Soybean	Conventional	04/17/2016	10/18/2016	250 bu/acre	32K, 36K, 40K
Percival, IA	Haynie silt loam	Soybean	Conventional	04/15/2016	09/21/2016	250 bu/acre	32K, 36K, 40K
Victor, IA	Mahaska silty clay loam	Soybean	Conventional	04/23/2016	10/04/2016	250 bu/acre	32K, 36K, 40K

SITE NOTES:

- Weed management: Standard pre- and post-emergent herbicides were applied
- **Spacing:** 30-inch rows
- Product: 107-114 relative maturity DroughtGard® Hybrids with VT Double PRO® RIB Complete® corn blend products were evaluated
- Treatments: Planting populations used were 32,000 (32K), 36,000 (36K), and 40,000 (40K) seeds/acre

UNDERSTANDING THE RESULTS

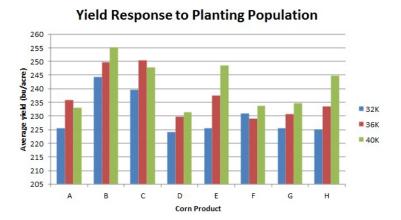


Figure 1. Effect of three planting populations on the yield of DroughtGard® Hybrids corn products at three lowa locations



Regional Report

- In general, greater performance was seen in planting populations exceeding 32K seeds/acre. The highest planting population (40K) out-performed the lowest planting population (32K) by 12 bu/acre and the mid population (36K) by 4 bu/acre.
- Variation by individual corn products was observed but yield remained above 220 bu/acre in all cases.

WHAT DOES THIS MEAN FOR YOUR FARM?

- Are DroughtGard® Hybrids corn products a good fit for your geography?
- Even at planting populations considered to be low for the study area, the products evaluated yielded 229 bu/acre on average and up to 255 bu/acre at the highest planting population of 40K seeds/acre.
- Selecting DroughtGard® Hybrids corn products may protect yield in years with unpredictable rainfall, and still deliver consistent yield in years where rainfall is not a factor (such as the study year).
- What planting populations are appropriate when planting DroughtGard® Hybrids corn products?
- Individual products respond differently to variable populations and it is important to consider unique conditions when selecting products and determining what populations are right for your operation.

LEGAL STATEMENT

For additional agronomic information, please contact your local brand representative. Developed in partnership with Technology Development & Agronomy by Monsanto.

The information discussed in this report is from a multiple site demonstration. This informational piece is designed to report the results of this demonstration and is not intended to infer any confirmed trends. Please use this information accordingly.

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IMPORTANT IRM INFORMATION: RIB Complete® corn blend products do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest.

SmartStax® RIB Complete® corn blend is not allowed to be sold for planting in the Cotton-Growing Area. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready®, Roundup® and North Double PRO® are trademarks of Monsanto Technology LLC. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. All other trademarks are the property of their respective owners. ©2017 Monsanto Company. 170301102141 030717CAM







