





RESPONSE OF REFUGE CORN PRODUCTS TO POPULATION

2014 Learning Center Demo Report Monsanto Learning Center at Scott, MS





Study Objectives







A corn demonstration trial was conducted at the Monsanto Learning Center at Scott, MS to:

- Provide information about best agronomic practices when using Roundup Ready® Corn 2 products in a required refuge.
- Evaluate the response of non-Bacillus thuringiensis
 (B.t.) refuge corn products to planting populations.
- Show growers how to optimize the yield potential of refuge corn products, and encourage improved compliance with refuge requirements.

Study Guidelines







- The corn demonstration trial was planted on March 26, 2014 at the Monsanto Learning Center at Scott, MS.
- Five DEKALB® brand Roundup Ready® Corn 2 products (DKC66-94, DKC67-55, DKC67-86, DKC68-04, and DKC69-43 brands) with relative maturities ranging from 116 to 119 days were each planted at seeding rates of 33,000, 36,000, and 39,000 seeds/acre.
- The trial was conducted and managed using local standard agronomic practices.
- Corn was harvested on September 1, 2014.

Results and Discussion







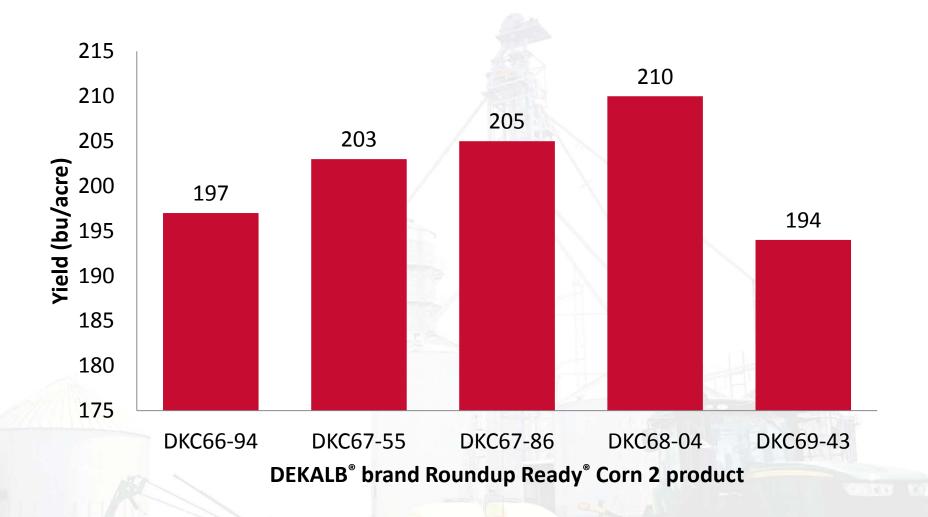
- Refuge corn products in this demonstration produced an overall average yield of 202 bu/acre, with individual product yields ranging from 194 to 210 bu/acre when averaged across populations.
- Refuge corn products generally produced higher yields at higher populations.
- Growers should evaluate refuge corn product characteristics, and yield potential, as well as their own agronomic decisions, as they select refuge corn products.

Refuge corn product yields when averaged across populations.







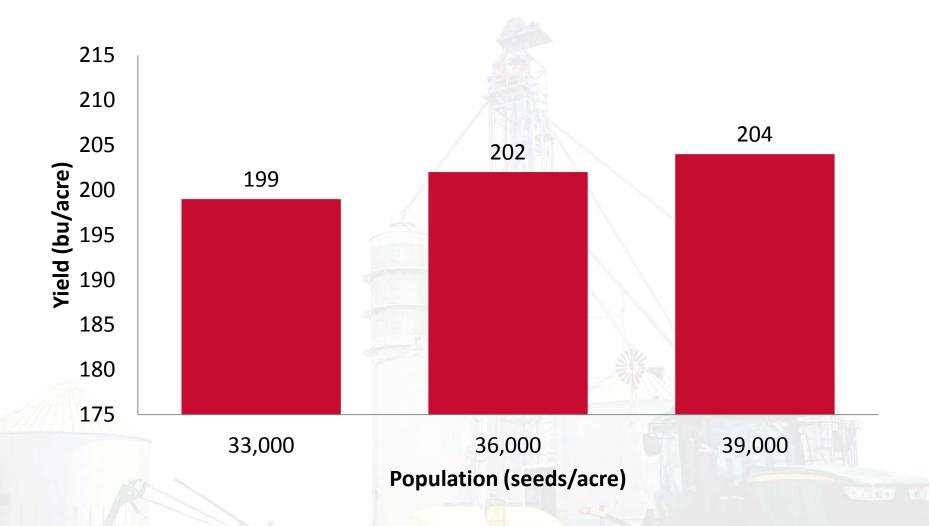


Yield response to population when averaged across refuge corn products.







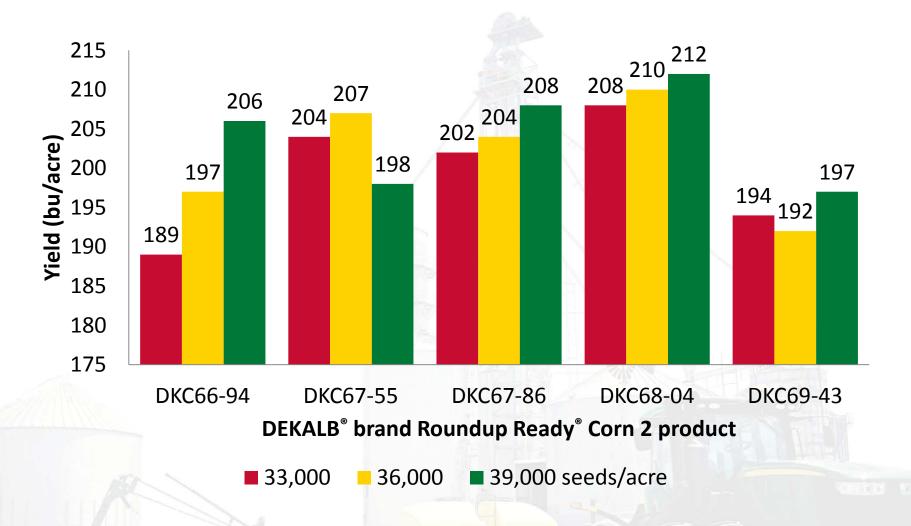


Yield response of refuge corn products to population.









Summary Comments







- There is a wide selection of non-*B.t.* corn products that may be planted in a refuge.
- Growers should select locally adapted corn products with similar maturity and agronomic characteristics as the corn products with insect protection traits.
- Refuge corn products should be scouted and treated if target insects reach threshold levels.
- With proper selection and management, refuge corn products have very good yield potential.

Summary Comments







- All corn growers in the Cotton-Growing Area who plant any corn products with *B.t.* technology are required by the EPA to plant a non-*B.t.* corn refuge.
- A non-*B.t.* corn refuge will help reduce the risk of insects developing resistance to the *B.t.* insect-protection trait.
- Specific refuge requirements for *B.t.* corn products can be found in the IRM Grower guide at:
 http://www.genuity.com/stewardship/Pages/InsectResistanceManagement.aspx
- To help ensure compliance, growers can use the IRM Refuge Calculator, which can be found at: http://www.refuge.irmcalculator.com
- Contact your DEKALB® brand seed representative for questions about specific corn products and refuge requirements.

Cotton-Growing Area









Legal Statements







The information discussed in this report is from a single site, non-replicated 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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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.

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