



RESPONSE OF DELTAPINE® VARIETIES TO ROW CONFIGURATION

2016 Learning Center Demo Report
Monsanto Learning Center at Scott, MS



BACKGROUND

- There are several reasons why a grower may plant cotton with varying row configurations.
- For example, growers are sometimes forced to have planters setup with different row configurations.
- This can result in planting cotton with a skip row.



BACKGROUND

- A demonstration was established to evaluate the response of Deltapine® cotton varieties planted with varying row configurations:
 - **Solid planted.** Every row planted. However, due to the limitations of plot work, four rows were planted, followed by one skip row, leading to a **4:1 skip row**.
 - **2:1 skip row.** Two rows were planted followed by one skip row. This method is currently used by some growers due to planter setup restrictions and to help increase water conservation and reduce boll rot.
 - **1:1 skip row.** One row was planted followed by one skip row. This method is not typically used by growers, but it was included in the demonstration due to recent interest how a 1:1 skip row would perform.

Response of Deltapine® Varieties to Row Configuration



BACKGROUND

- This demonstration was designed to investigate the implications of different row configurations.
- Setup and management of varying row configurations may be altered depending on grower preferences and equipment.

Response of Deltapine® Varieties to Row Configuration



STUDY GUIDELINES

- Four Deltapine® varieties were planted on May 11, 2016 with the following conditions:
 - Row Spacing: 38-inch rows
 - Soil Type: Silt Clay Loam
 - Previous Crop: Corn
 - Tillage: Conventional
 - Nitrogen Applied: 120lbs N/acre as 28% UAN liquid
 - All other agronomic practices were timely and per local practices.
- All plots were harvested on October 12, 2016.
- Total accumulated growing degree days (DD60s) from planting to harvest: 2956.

Response of Deltapine® Varieties to Row Configuration



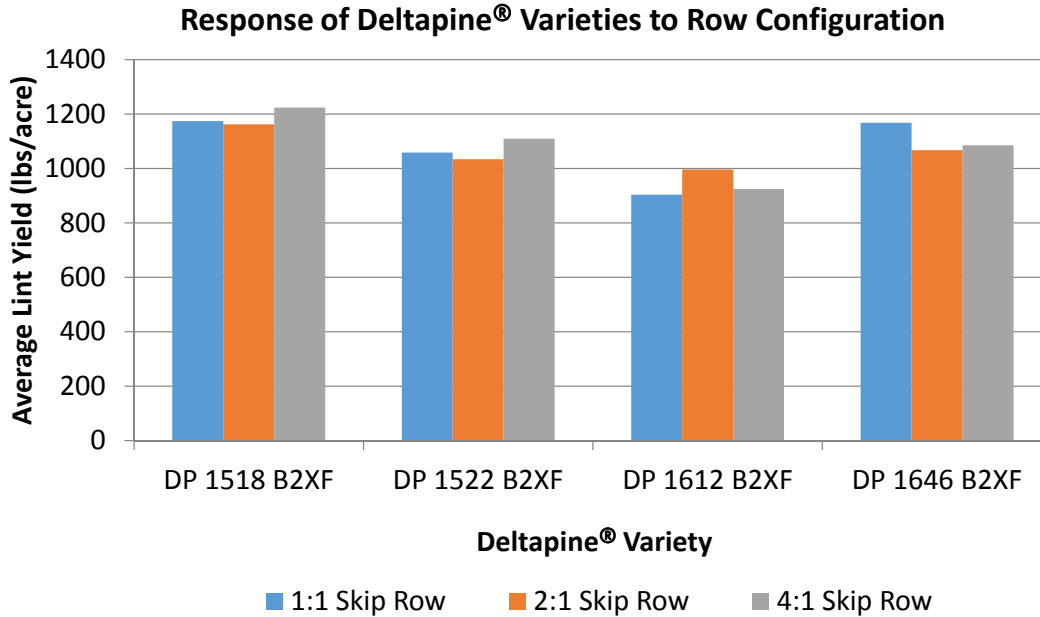
STUDY GUIDELINES

- Plots were planted at row acre populations of 50,000 seeds per acre.
 - 4:1 skip row: 50,000 seeds per acre
 - 2:1 skip row: 33,000 seeds per acre
 - 1:1 skip row: 25,000 seeds per acre
- Lint yield calculations were based on 2015/2016 Beltwide turnouts.
- Yield goal for this demonstration was 1200 pounds of lint per acre.

Response of Deltapine® Varieties to Row Configuration



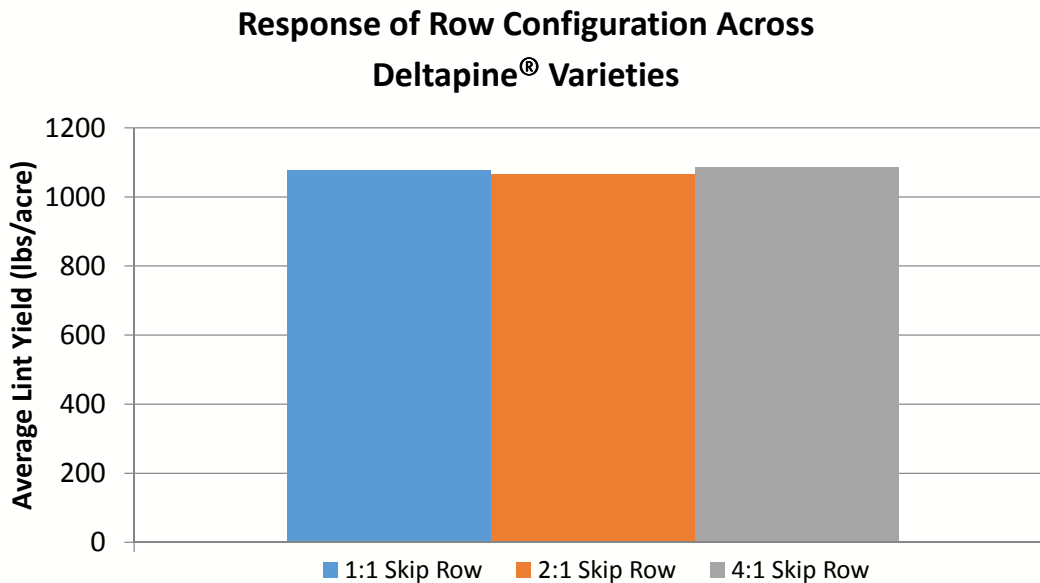
RESULTS & DISCUSSION



Response of Deltapine® Varieties to Row Configuration



RESULTS & DISCUSSION

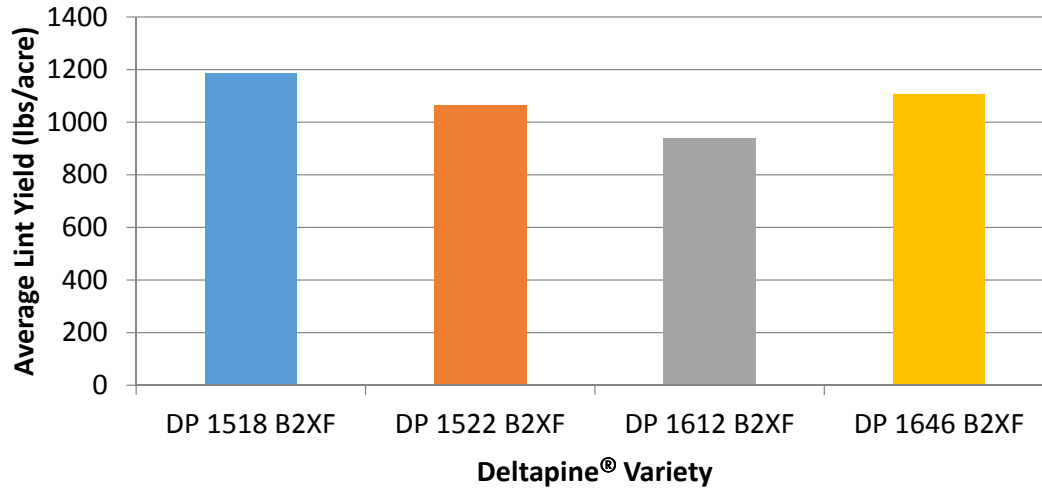


Response of Deltapine® Varieties to Row Configuration



RESULTS & DISCUSSION

Response of Deltapine® Varieties Across Row Configuration

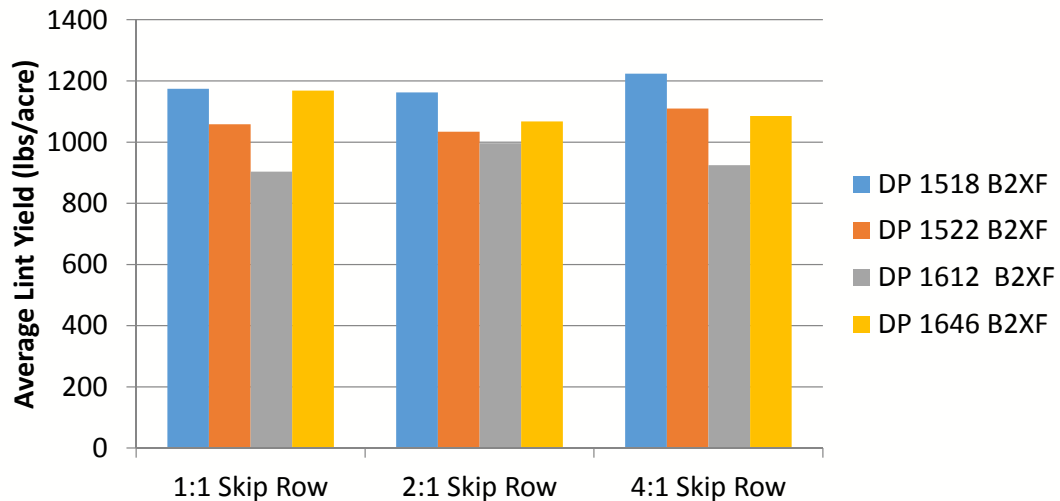


Response of Deltapine® Varieties to Row Configuration



RESULTS & DISCUSSION

Response of Deltapine® Varieties to Row Configuration by Row Configuration



Response of Deltapine® Varieties to Row Configuration



RESULTS & DISCUSSION

- This demonstration clearly exhibits the compensatory ability of cotton as a crop.
- All row configurations yielded approximately the same across the trial.
- The cotton varieties in this trial performed well even with reduced plant populations and what may be considered non-ideal row spacings.

Response of Deltapine® Varieties to Row Configuration



TAKE AWAYS

- Growers should carefully manage growth with PGRs in skip row configurations.
- Skip row planted cotton often requires a balance of good growth control without excessive shortening.
- There may be some opportunity with skip row cotton to reduce the need for growth control and reduce boll rot.

Response of Deltapine® Varieties to Row Configuration



TAKE AWAYS

- In the event that growers are either forced to or choose to plant a skip row configuration, acceptable yield levels may be maintained.
- It is recommended to continue to maintain per field acre populations similar to solid plantings versus planting according to row acre.

Response of Deltapine® Varieties to Row Configuration



LEGAL STATEMENTS

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

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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Response of Deltapine® Varieties to Row Configuration