Impact of Cultural Practices on Insect Management

Don Cook, Jeff Gore, and Brian Adams
Tarnished Plant Bug
*Lygus lineolaris* (Palisot de Beauvois)
> 300 documented host plant species

*Lamium amplexicaule* L., Henbit
*Stellaria media* (L.) Vill., Common Chickweed
*Cerastium vulgatum* L., Mouseear Chickweed
*Medicago* spp., *Trifolium* spp., Clovers
Total TPB Collected from Cotton

- Non-treated
- Herbicide Treated

**Adults**
- 2004: 250
- 2005: 500
- 2006: 500

**Nymphs**
- 2004: 100
- 2005: 200
- 2006: 300

D. Cook & E. Burris
Impact of Planting Date on TPB

Treated plots were sprayed once or twice per week throughout the season.
Impact of Crop Maturity on TPB

Nymph per 6 ft.

- DP 555 BR
- DP 444 BR
- NAWF 5 + 350
- NAWF 5 + 350

Date:
- 2-Jul
- 12-Jul
- 22-Jul
- 1-Aug
- 11-Aug
- 21-Aug

J. Gore
## Impact of Planting Date and Maturity on TPB Management

<table>
<thead>
<tr>
<th>Planting Date</th>
<th>Cotton Varieties</th>
<th>TPB Management</th>
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<tbody>
<tr>
<td>Mid-Apr</td>
<td>Early Maturing Variety DP 0912</td>
<td>Treated as needed</td>
</tr>
<tr>
<td>Apr 20</td>
<td></td>
<td>Non-Treated</td>
</tr>
<tr>
<td>Late-Apr/Early May</td>
<td>Late Maturing Variety DP 0949</td>
<td></td>
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<tr>
<td>May 6</td>
<td></td>
<td></td>
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<tr>
<td>Mid-May</td>
<td></td>
<td></td>
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<tr>
<td>May 19</td>
<td></td>
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<tr>
<td>Late-May/Early Jun</td>
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<tr>
<td>Jun 2</td>
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</tbody>
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Impact of Planting Date & Varietal Maturity on TPB Management

Sample Date

Percent of Threshold

DP 0912 (Early) - PD-1, PD-2, PD-3, PD-4
Impact of Planting Date & Varietal Maturity on TPB Management

- DP 0912 (Early)
- DP 0949 (Late)

Sample Date:
- PD-1
- PD-2
- PD-3
- PD-4

Percent of Threshold

* denotes significant difference.
Impact of Planting Date & Varietal Maturity on TPB Management

![Graph showing yield for different planting dates and number of applications]

- **PD1**: Apr 20, 3 Apps.
- **PD2**: May 6, 4 Apps.
- **PD3**: May 19, 7 Apps.
- **PD4**: Jun 2, 7 Apps.

Legend:
- DP 0912 B2RF (Early)
- DP 0949 B2RF (Late)

Brian Adams

Mississippi State University
Impact of Planting Date & Varietal Maturity on TPB Management

![Graph showing impact of planting date and varietal maturity on TPB management. The graph compares DP 0912 B2RF (Early) and DP 0949 B2RF (Late) across planting dates: PD1 (Apr 20), PD2 (May 6), PD3 (May 19), PD4 (Jun 2). The percent yield reduction is depicted with bars, showing varying reductions for each planting date and variety combination.]
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