

STAND ESTABLISHMENT WITH THE BEDSHAPER-PLANTER

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This test was designed to evaluate the effects of petroleum mulch and dates of planting on the establishment of a stand and on yield. There were three dates of planting: March 1, March 15, and March 20. Only one type of petroleum mulch was used.

The experimental bedshaper planter planted the cottonseed on dry soil. Trifluralin was applied broadcast at planting time and incorporated above the seed. Immediately following planting, the asphalt was applied to a six-inch band over the drill.

There was no significant difference in yield for any of the asphalt-treated plots. However, the March 1 non-asphalt treatment resulted in a reduced stand and yield. There was no significant difference between the treated and non-treated plots for the March 15 or March 20 planting dates.

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THE EFFECTS OF SEED TREATMENT AND SEED DENSITY ON YIELD

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This experiment was designed to evaluate the effects of a kinetin treatment of cottonseed and seed density on yield. This test was planted April 2 on dry beds and watered-up.

All seed in this test was DPSL and hand harvested in 1967 from the Cotton Research Center, Field B-2.

Treatments were:

- (1) Regular untreated seed
- (2) High density untreated seed. The 10% heaviest seed were separated from a sample of the regular untreated seed
- (3) Regular kinetin treated seed
- (4) High density kinetin treated seed

There were no statistical differences in emergence or yield for any of the treatments. However, the high density untreated seed tended toward high yields.