

**Yield of 12 Upland Cotton Varieties Planted at 3 Dates at  
Maricopa in 1985.**

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Summary

The earliest planting date (28 March) gave the highest average lint yield. The average decrease in lint yield with delayed planting after 28 March was 6 to 7 pounds of lint/acre/day. Varieties did not differ greatly in lint yield. The early (short season) varieties Centennial and Deltapine 30 were consistently lowest in lint yield. Deltapine 775, Deltapine 90Y, and Stoneville 112 were among the highest producers at all three planting dates.

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A test to evaluate 12 upland cotton varieties at five planting dates was established at the University of Arizona Maricopa Agricultural Center in 1985. Planting dates were 28 March, 16 April, 3 May, 15 May, and 7 June. Fifty percent more seed was planted on 28 March than on other planting dates.

The last two planting dates had very uneven stands among varieties, so lint yield data are not presented for them. The test consisted of 5 planting dates as main plots, 3 reps, and 12 varieties as subplots. Plots were 4 rows by 39 feet. The test was machine harvested on 22 November.

Lint yield decreased an average of 6 pounds of lint/acre/day from delay of planting 28 March to 16 April. Further delay of planting to 3 May resulted in another average lint yield reduction of 7 pounds of lint/acre/day. Yield decreased between 28 March and 16 April planting for all varieties except Deltapine (DP) 30 and between 16 April and 3 May for all but DP 50. The two short season varieties DP 30 and Centennial consistently had lower yield at the three planting dates. DP 775, DP 90Y, and Stoneville 112 were consistently among the better varieties. However, most of the varieties did not differ significantly in lint yield from the best variety for a particular planting date.

**Table 1. Lint Yield of 12 Upland Cotton Varieties Planted at Three Dates at Maricopa, Arizona in 1985**

Planting Date					
28 March		16 April		3 May	
Variety	Lbs lint/A	Variety	Lbs lint/A	Variety	Lbs lint/A
DP 775	1678 a <sup>1</sup>	DP 775	1548 a-d	Stv 112	1420 a-i
McN 235	1669 a	DP 90Y	1517 a-e	DP 90Y	1391 b-j
DP 90Y	1622 ab	Stv 112	1508 a-f	DP 90	1381 b-j
Stv 825	1614 ab	McN 235	1505 a-f	DP 50	1375 b-j
Stv 112	1605 ab	DP 61	1501 a-g	DP 775	1353 b-j
DP 90	1591 ab	Stv 825	1429 a-i	DP 61	1305 c-j
DP 61	1559 abc	DP 90	1426 a-i	DP 41	1287 d-j
DP 41	1541 a-d	Coker 315	1420 a-i	Coker 315	1272 e-j
DP 50	1519 a-e	DP 50	1375 b-j	Stv 825	1246 f-j
Coker 315	1474 a-h	DP 41	1360 b-j	McN 235	1197 ij
				Centennial	1191 ij
Centennial	1362 b-j	Centennial	1237 g-j		
DP 30	1211 hij	DP 30	1223 hij	DP 30	1153 j
Mean	1537		1421		1298
CV	12%				
Mean Plants /acre	37,000		22,000		29,000
Mean Plant height	35"		36"		34"

<sup>1</sup> Mean lint yields within the entire test that are followed by the same letter are not significantly different at the 0.05 confidence level according to Duncan's Multiple Range Test. Varieties above the space for each planting date are not significantly different in lint yield from the best variety for that planting date.