

TABLE 3
1982
SAMPLE HARVEST DISCOUNTS

GROWER	BALES	HARVEST PERIOD	AVERAGE GRADE DISCOUNT
Grower A, Chandler	581	10/21-11/8	-206 pts
	645	11/9-1/5	-895
Grower B, Peoria	68	11/5-11/6	-341
	85	1/28	-897
Gin, Buckeye	1523	10/22-11/18	-583
	6020	11/19-1/6	-1297

USE OF SINGLE-HARVESTING TO SAVE TIME, ENERGY AND MACHINERY

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Comparisons between the traditional double-harvesting and single-harvesting have been carried out for four years to determine the feasibility of combining the two methods of spindle-picking cotton. In three of four years there was no significant difference in ultimate yield and little difference in quality. A combination of the two methods presents an opportunity to save time, energy and some of the excessive machine wear encountered in second-picking.

A ten-year study at the Cotton Research Center at Phoenix reveals that 95 to 100 percent of the cotton is open by November 1 when hand-picked. Proper cultural management is then required so defoliants work effectively for machine harvest and a dessicant can be added to open late balls for single-picking in November. Picker/acreage ratios and seasonal effects cause variations but 60 to 70 percent of the crop may be traditionally picked before November 10 to November 20 and the balance of the acreage is single-harvested after dessication. This may save \$35.00 per acre machine cost without allowance for excessive wear.

In 1982 comparisons late November single-harvest lost 81 pounds of lint with DPL-90 and gained 55 pounds with DPL-120 compared to double-harvest. Very unfavorable fall rains occurred November 8, 9, 10, 17, 18, 19, 30 and December 1, 8, 9, 10 to reduce double-harvest of DPL-120 but first-pick of DPL-90 caught 94 percent of spindle-picking before November rains began to reverse the results.

MOORE FARMS-WADDELL

Harvest Method	Date	Percent Turnout	Lbs Lint Per Acre	Percent Of Total Harvest	Total Lint Per Acre
Variety DPL-90					
<u>DOUBLE HARVEST</u>					
1st Pick	Nov 3	33.41%	1518	94.0	1614
2nd Pick	Jan 5	30.10%	96	6.0	
<u>SINGLE HARVEST</u>					
Single Pick	Nov 29	32.61%	1533	100.0	1533
Variety DPL-120					
<u>SINGLE HARVEST</u>					
Single Pick	Nov 30	34.50%	1362	100.0	1362
<u>DOUBLE HARVEST</u>					
1st Pick	Oct 26	33.45%	1136	86.9	1307
2nd Pick	Jan 5	29.97%	171	13.1	