

skip row cotton as compared to solid planted cotton than did Yuma. However, both of these environments were not as favorable for skip row planted cotton as Marana where yields of 40% or better over the other 2 locations were found with plant 1 skip 2.

From the practical standpoint if the farmer wants to plant skip-row cotton the plant 2 skip 2 will most likely give the highest yields on an allotted acreage basis while from an actual physical acre basis the plant 2 skip 1 pattern will probably give the highest yields (next to solid planted cotton).

These increased yields came about from the fact that the wider the space between rows the less competition for water, nutrients and light. It would seem from the data that the skip 2 (80" between rows) would give the least competition and therefore would exhibit highest yields--which was found to be true.

Skip Row Cotton Favors Acala Varieties

(G. E. Blackledge)

Acala varieties gave a higher percentage increase in yield over inside rows than Southern varieties. The two outside rows and the two inside rows were picked and weighed separately on three variety tests planted (plant 4- skip 1) skip row. This same procedure was followed in harvesting three tests in 1963.

The two years' results presented in the following table shows rather wide variations in yield increases from skip row plantings. Weed problems detract from skip row plantings. Rank growth generally gives an advantage to skip row plantings.

<u>Average % Yield Increase Of Outside Rows Over Inside Rows</u>				
<u>1964</u>	<u>Field #1</u>	<u>Field #2</u>	<u>Field #3</u>	<u>Average</u>
Acala varieties	37.9%	21.3%	43.4%	34.2%
Southern varieties	26.9%	17.5%	37.4%	27.3%
<u>1963</u>				
Acala varieties	20.9%	38.7%	31.9%	30.5%
Southern varieties	7.8%	34.1%	22.7%	21.5%