Table 2

Lint Yield Per Acre in Pima Cotton Irrigation-Variety-Plant Population Test, Safford, 1968. (picked 11-25-68)

Irrigation Treatment	Est. Inches Water Used	No. Irrig.	Variety S-3	Variety S-4	2-Variety Mean
Wet	30"	5	631 a	579 a	605 a
Medium	25"	4	557 a	563 a	560 a
Dry	20"	3	584 a	555 a	570 a
Plant Spacing					
Planned	Actual				
Unthinned	3"		658 ab	708 a	683 a
6"	7"		648 ab	644 ab	646 a
12"	12"		566 bc	502 cd	534 b
18"	16"		491 cd	408 d	449 c
Mean			591	566	

C.V. = 12%

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PIMA COTTON SKIP ROW TEST

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A skip row test using Pima S-3 and Pima S-4 was conducted at Marana in 1968. The skip row patterns are shown in Table 1. Lint yields are shown first on a cropped area basis (skips not counted in area) and then on total area basis. Yields are further divided into row pairs for the cropped area data. That is, in six cropped and two skipped, Rows 1 and 6 are outside rows, 2 and 5 are the next pair of rows toward the center, and Rows 3 and 4 are the center rows. Rows 3 and 4 are assumed to be the equivalent to no skip planting for this presentation.

Pima S-4 produced more lint than Pima S-3 in no-skip plantings, while S-3 was superior to S-4 in the skip row plantings, except plant six - skip two. However, varieties did not differ significantly in yield for any of the skip row patterns. If we consider the yield on the cropped area basis, one and one is best followed by two and one, then two and two, with no skip being poorest. On the total area basis, no skip is best with two and one, and six and two not significantly lower in yield.

Table 1

Lint Yield of Pima Cotton in Skip-Row Patterns, Marana, 1968

Treatment: Number of Rows Cotton	Rows Skipped	Row Pair	Vari-ety	Lint in Lbs./A. on Cropped Area Basis: First Pick 11-6-68	Second Pick 12-4-68	Total Lint: By Rows	Total Lint: By Field	% of No Skip Yield	Yield in Lbs./A. on Total Area Basis: Lint Lbs./A.	% of No Skip Yield	2 Var. Mean Lbs. Lint/A.	% of No Skip Yield
1	1		S-3	1437 a[1]	250 a	1687 a	1687 a	164	844 bcd	82)	822 bc	77
1	1		S-4	1356 ab	245 a	1601 a	1601 ab	146	801 cde	73)		
2	1		S-3	1214 bc	243 a	1457 bc	1457 bc	142	971 abc	95)	947 ab	89
2	1		S-4	1190 bcd	194 b	1383 cd	1383 cd	126	922 abc	84)		
2	2		S-3	1253 bc	209 ab	1462 bc	1462 bc	142	731 de	71)	689 c	65
2	2		S-4	1130 cd	166 b	1296 cd	1296 cde	118	648 e	59)		
4	2	1,4	S-3	1276 abc	183 b	1459 bc)	1270 de	124	847 bcd	82)		
		2,3		921 e	161 b	1082 e)				)	840 bc	79
4	2	1,4	S-4	1232 bc	171 b	1403 c)	1249 de	114	833 cd	76)		
		2,3		933 e	162 b	1095 e)				)		
6	2	1,6	S-3	1256 bc	205 ab	1461 bc)						
		2,5		903 e	171 b	1075 e)	1186 e	115	891 bcd	87)		
		3,4		854 e	174 b	1027 e)				)	916 ab	86
6	2	1,6	S-4	1290 abc	170 b	1460 bc)				)		
		2,5		1027 de	180 b	1207 de)	1255 de	114	941 abc	86)		
		3,4		925 e	173 b	1098 e)				)		
No Skip S-3 (from rows 3&4 of 6&2)				854	174	1027		100	1027 ab	100)		
No Skip S-4 (rows 3&4, 6&2)				925	173	1098		100	1098 a	100)	1063 a	100
Mean				889	173	1063						
C. V. %				8.1	13.0	7.5						

[1] Lint yields within a group of means are not significantly different at the .05 level if followed by the same letter.