

Table 1. Effect of row spacing, PIX and no PIX on yield of three Pima cultivars through November 24, 1981 at Phoenix.

Row spacing	Treatment	Cultivar	Harvest date							
			8/17	8/31	9/14	9/28	10/13	10/26	11/24	
Pounds seedcotton/A										
40"	NP	81-102	430 cd <sup>1/</sup>	1383 a	2011 bcd	2318 def	2351 f	2391 e	2422 d	
		81-130	456 bcd	1409 a	2301 ab	2917 ab	3094 ab	3201 ab	3228 a	
		S-5	216 f	976 c	1605 e	2241 ef	2751 b-f	3033 abc	3188 ab	
	P	81-102	539 abc	1484 a	2117 abc	2426 c-f	2502 ef	2522 e	2565 d	
		81-130	424 cd	1137 bc	2103 bc	2738 a-d	2984 a-d	3044 abc	3077 ab	
		S-5	252 ef	898 c	1680 de	2207 ef	2747 b-f	2980 a-d	3163 ab	
	30"	NP	81-102	537 abc	1481 a	2281 ab	2555 b-e	2659 b-f	2687 cde	2737 bcd
			81-130	576 ab	1433 a	2539 a	3083 a	3328 a	3385 a	3421 a
			S-5	250 ef	895 c	1546 e	2067 f	2609 c-f	2824 b-e	3029 abc
P		81-102	571 ab	1452 a	2162 abc	2433 c-f	2527 def	2565 de	2617 d	
		81-130	645 a	1348 ab	2373 ab	2801 abc	3008 abc	3087 abc	3125 ab	
		S-5	360 de	982 c	1759 cde	2253 ef	2816 b-e	3021 abc	3218 a	
40"			386	1214	1969	2474	2738	2862	2940	
30"			490	1265	2110	2532	2824	2928	3024	
	NP		411	1263	2047	2530	2798	2920	3004	
	P		465	1217	2032	2476	2764	2870	2961	
		81-102	519	1450	2143	2433	2510	2541	2585	
		81-130	525	1332	2329	2885	3103	3179	3213	
		S-5	269	938	1647	2192	2731	2965	3149	
		Cultivar	**	**	**	**	**	**	**	
		Treatment	*							
		Row-width	**							

\*Significant at 0.05 probability level.

\*\*Significant at 0.01 probability level.

<sup>1/</sup>Yields in a given column followed by the same letter not significantly different at the 0.05 probability level.

P = PIX applied at rate of 20 g active ingredient/acre on June 19.

NP = No PIX applied.

### Effect of Pix on Two Varieties Grown After Alfalfa

C. R. Farr

Two Upland cotton varieties were planted March 29 on Laveen sandy loam at Buckeye on Hayden Farms following alfalfa and were treated with Pix growth regulator. Applications of 20 grams of active ingredient per acre were applied June 30 with a ground machine to 24-row replications and 16-row plots were harvested from the center for yield response. Applications were made five days after irrigation and five days prior to subsequent irrigation. Varieties ranged from 46 to 52 inches tall at maturity.

First harvest was made December 8-9 and second harvest of Dpl 61 and Dpl 7120 was completed January 13-14, 1982. Variety yields were over four bales per acre, excluding ground cotton, and growth regulator application failed to increase yield significantly. The usual visual symptoms were observed after applications were made and the growth regulator reduced plant height four to six inches during late July and August.

Effect of Pix on Cotton Yield

Treatment	Lbs. Seed Cotton Per Plot					Ave.	Lbs. Lint Per Plot	Lbs. Lint Per Acre
	1	2	3	4				
Pix, Dpl 7120	1st	9540	9400	8900	9030	9218	3112	2116
	2nd	440	400	320	320	370	114	<u>78</u>
							total	<u>2194</u>
Check	1st	9560	9720	9080	8640	9250	3123	2124
	2nd	280	285	360	340	316	97	<u>66</u>
							total	<u>2190</u>
Check, Dpl 61	1st	9280	9400	9780		9487	3203	2178
	2nd	345	340	340		342	105	<u>71</u>
							total	<u>2249</u>
Pix, Dpl 61	1st	9360	9460	9440		9420	3180	2162
	2nd	330	350	340		340		<u>71</u>
								<u>2233</u>