

Cumulative lint yield in pounds per acre at six harvest dates with
30- and 40-inch rows with and without Pix.

		Aug. 17, 1981			Aug. 31, 1981			Sept. 15, 1981		
		Pix	No Pix	Ave.	Pix	No Pix	Ave.	Pix	No Pix	Ave.
Row	30"	684	605	644	946	863	904	1045	964	1004
Width	40"	572	609	590	855	882	868	1005	1025	1015
	Ave.	628	607		900	872		1025	994	

		Sept. 29, 1981			Oct. 12, 1981			Oct. 26, 1981		
		Pix	No Pix	Ave.	Pix	No Pix	Ave.	Pix	No Pix	Ave.
Row	30"	1185	1122	1154	1359	1303	1331	1407	1349	1378
Width	40"	1141	1167	1154	1330	1316	1323	1381	1350	1366
	Ave.	1163	1144		1344	1310		1394	1350	

Significant variables

Aug. 17	Row width x Pix Interaction **
Aug. 31	Row width x Pix Interaction**, variety**
Sept. 15	Row width x Pix Interaction*, variety**
Sept. 29	Row width x Pix Interaction*, variety**
Oct. 12	Row width x Pix Interaction ^{n.s.} , variety*
Oct. 26	No significant differences

The Effect of a Growth Regulator on Pima S-5 Cotton

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For the past three years a concerted effort has been made to evaluate the economics of Pix[®] applications. In most cases there was a positive gain locally. When applied to long staple cotton every comparison (1979 thru 81) in Pima County proved to be economic.

Probably the most important factor contributing to this high success rate was field selection. Applications were only made in fields with a history of excessive vegetative growth. This situation takes advantage of the growth regulator attributes of controlling plant size along with promoting earlier maturity.

In spite of 1981 being an almost ideal growing season, with much more early boll set than normally occurs, the one pint application of Pix[®] on Pima S-5 provided economic returns. The following results were obtained this past season.

Pix[®] Treatment - Pima S-5 *
Apex Farms, Art Pacheco, Marana

Treatment	Seed Cotton Per Plot (Pounds)				Seed Cotton	Lint/Acre
	Rep 1	Rep 2	Rep 3	Rep 4		
1 Pt. Pix [®]	1865	1840	1435	1345	2533	763
Check	1405	1490	1805	1430	2395	721

* First Pick Only

The data above shows the lint increase per acre from the Pix[®] application was 42 pounds. Figuring the value of the increase to be about \$42.00 and the cost for 1 pint of material plus application at \$18.00 the net profit per treated acre was \$24.00. As a result it can be concluded that it was profitable to make the chemical application to this field.