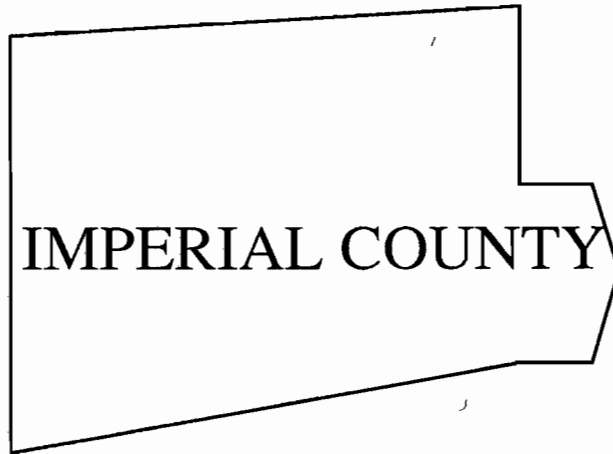


COTTON PROJECTED PRODUCTION COSTS



1991-1992

**UNIVERSITY OF CALIFORNIA
COOPERATIVE EXTENSION**

COTTON
PROJECTED PRODUCTION COSTS
1991-1992
=====

Mechanical operations at custom rates. Labor at \$5.75 per hour (\$4.50 plus Social Security, employment and fringe benefits).

Yield- 1150 pounds lint per acre. (2.3 bales)		Days to harvest 170 to 200+ days.				
OPERATION	CUSTOM	MATERIALS		HAND LABOR		COSTS Per Acre
	RATE	Type	Cost	Hours	Dollars	
LAND PREPARATION						
Disc 2x	9.50					19.00
Float	8.25					8.25
Laser plane	8.75					8.75
Border-cross check	15.00					15.00
List	11.50					11.50
Fertilize (injected)	10.50	80# NH3 @ .15/lb	12.00			22.50
Irrigate		1/2 ac.ft.	5.75	2	11.50	17.25
Lilliston	9.50					9.50
TOTAL LAND PREPARATION COSTS						111.75
GROWING PERIOD						
Plant - Shape	12.00	Seed 20# @ .56/lb	11.20			23.20
Preemergence weed control	8.50	Herbicide	37.00			45.50
Cultivate 2x	10.75					21.50
Fertilize 2x	10.50	150# N @ .15/lb	22.50			43.50
Hand thin - Weed				8	46.00	46.00
Layby herbicide	8.50	Herbicide	8.40			16.90
Irrigate (Temik)	10.00	Water 4.5 ac/ft	51.75	8	46.00	107.75
Insect control 6x	5.00	Insecticide	76.00			106.00
PBW pheromone	11.00	PBW Rope	34.78			45.78
Preconditioner	6.00	Ethephon	13.00			19.00
Defoliate 2x	6.00		24.00			36.00
Chop stalks	10.00					10.00
TOTAL GROWING PERIOD COSTS						521.13
GROWING PERIOD & LAND PREPARATION COSTS						632.88
PREHARVEST COSTS						
Land Rent (net acres)						150.00
Cash Overhead--		12% preharvest cost and land rent				93.95
TOTAL PREHARVEST COSTS						876.83
HARVEST COSTS						
Machine picking	48.00/bale @	2.3 bales/acre				110.40
Hauling	10.00/bale @	2.3 bales/acre				23.00
Ginning	3.00/cwt sc	(minus seed costs)				.00
TOTAL HARVEST COSTS						133.40
POST-HARVEST COSTS						
Bale assessments	7.25/bale @	2.3 bales/acre				16.68
TOTAL ALL COSTS						1026.90

PROJECTED INCOME ABOVE COSTS (PER ACRE)

		price/lb lint					Breakeven \$/lb.
		.65	.70	.75	.80	.85	
Pounds	1000	-357	-307	-257	-207	-157	1.01
lint	1250	-227	-165	-102	-40	23	.83
per	1500	-98	-23	52	127	202	.72
acre	1750	32	120	207	295	382	.63
(500#/bale)	2000	162	262	362	462	562	.57

COTTON CULTURE

1991-1992

<u>YEAR</u>	<u>ACRES</u>	<u>YIELDS/ACRE</u> <u>(IN LBS)</u>	<u>VALUE/LB</u>
1989	12,967	1,165	\$.70
1988	24,181	1,005	.65
1987	19,313	1,200	.73
1986	17,169	1,260	1.02
1985	23,276	1,355	.75

LAND PREPARATION: Most cotton is grown on raised beds 30 or 40 inches wide. The crop is generally planted in a semi-mulch and irrigated up. Cotton can be grown on all types of soil in Imperial County.

PLANTING DATES AND RATES: Cotton yields are normally higher if planted in March to early April. Yields decrease when cotton is planted later in the season. A soil temperature of at least 60° F at a depth of 8 inches is desirable. Spacings within the row of 3 to 12 inches result in approximately the same yields.

VARIETIES: Delta Pine 61, Delta Pine 77 and Stoneville 825 have been successfully grown. Other varieties grown are Delta Pine 90, Delta Pine 80, and Delta Pine 20, and Pima 5-6.

FERTILIZATION: Two hundred fifty pounds of nitrogen per acre will produce a good crop on solid planted cotton. The applications should be made before planting, at thinning, and in June. Phosphate application is a common practice, although tests have failed to show a yield response. The total nitrogen and phosphate applied depends upon the previous crop. It is important to check the nutrient and water status of plants and soil in the latter part of the growing season. Drying soil and low nutrients make plants easier to defoliate and harvest.

IRRIGATION: Do not allow the plants to remain wilted for extended periods of time. The number of irrigations depend upon the season and the soil type.

PEST CONTROL: Several herbicides are now in common use both as preemergence and layby treatments. Consult your farm advisors' office for registered, adapted chemicals.

The pink bollworm, the cotton leaf perforator, tobacco budworm, and cotton bollworm are widespread and pose a serious threat to cotton production. Other insects such as spider mites, cutworms, lygus bugs, leafhoppers, and whitefly may require treatment. The presence of these insect pests results in increased costs for pest control since multiple applications are necessary to keep them in check. The insecticide costs included in this circular could be higher, depending upon the presence of these and other pests. Consult the farm advisors' office for latest information and recommendations. Pink bollworm has been greatly suppressed through a mandatory early termination program in the Imperial Valley. Use of Gossyplue pheromone as a mating disruption technique can be used in place of insecticides where overwintering adult pink bollworm moth emergence is low.

Seedling diseases can reduce cotton stands to the point where replanting may be necessary. The seedling disease problem frequently is more severe where cotton follows sugar beets or alfalfa. Cool soil temperatures may also increase disease. Fungicide seed treatments should be used for seedling disease control.

MISCELLANEOUS: If PIX and/or Prep are applied, add \$50 per acre, plus application.

GUIDELINES TO PRODUCTION COSTS AND PRACTICES

Imperial County Crops, Circular 104F

1991-1992

CUSTOM RATE CHARGES

HEAVY TRACTOR WORK

	PRICE/ACRE
Plow	\$ 24.75
Subsoil 2nd Gear	29.25
Disc, Regular	9.50
Disc, Stubble	18.25
Float	8.25
Triplane	8.75
List, Regular	11.50
Landplane	10.00
Chisel	20.75

PLANTING AND CULTIVATING

Plant and Shape Sugar Beet 40" Beds	15.50
Precision Plant 40" Beds	14.50
Plant	13.75
Cultivate 4-Row 30", 40" Beds	10.75
Spike and Furrow Out (2 row)	10.50
Lilliston	9.50
Furrow out alone	8.00

INCORPORATING, BORDER AND BED WORK

Power Incorporate	20.25
Scraper Borders	12.75
Border, Cross checks and Break Borders	15.00
Roll Beds	5.00

FERTILIZER APPLICATION

Broadcast Fertilizer	6.00
Inject Fertilizer (Flat)	10.00
Fertilize and Furrow Out 30", 40" Beds	10.50

IRRIGATION

Custom Sprinkle	\$130.00-140.00
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HARVEST

Swather	7.50
Rake	4.00

MISCELLANEOUS

Motor Grader/Hour	42.75
Chop Stalks, Etc.	11.00
Cultipacker	6.00
Power Incorporate Herbicides	20.25
Ground Spray Pesticides (4 Row)	7.50
Aerial Spray 5 Gal. (Insecticide)	4.75
Aerial Spray 10 Gal. (Fungicides)	5.00