SAMPLE COSTS TO PRODUCE COTTON SAN JOAOUIN VALLEY - 1985

Lowell Zelinski

This sample cost data sheet is produced as a guide only. It should, however, assist producers in determining production cost for their operation or specific fields and aid in analyzing cost and procedures that might increase production efficiency. The figures shown are based on what are considered good management practices and do not represent industry averages.

The cost data sheet was developed on a microcomputer using the spread sheet program VISICALC. A program listing can be obtained by contacting the author. From the listing someone with a microcomputer and a spread sheet program like VISICALC, SUPERCALC, or MULTIPLAN could reconstruct the template. Then, by substituting their costs, they could customize the cost sheet for their operation. If you have any questions regarding the program, call the author of this section.

 $\underline{\underline{Yield}}$ - Yield is the most important variable affecting both cost of lint per pound and profit per acre. The cost of production per pound of lint is greatly reduced as the yield of lint per acre increases.

<u>Irrigation</u> - Sample cost for water is based on \$25/acre foot. This cost will vary depending on irrigation district, portion of water supplied from wells, depth of pumping, time of day the water is pumped, and type of irrigation system.

Irrigation labor costs will vary with number of irrigations per season, hourly wage rates, type of irrigation system, and other factors. Laser leveling of furrow irrigated fields can have a significant impact on irrigation cost.

<u>Insect Control</u> - Insect control costs will vary with location, year, and the degree of control expected by the grower. This cost data sheet is set up for one miticide spray, and one mid-season insect spray. Note that a systemic insecticide treatment at planting is not included.

<u>Weed Control</u> - Cost will vary greatly depending on methods used, and the magnitude of the weed problem in general. This cost sheet is set up for one preplant application of a Dinitroanaline herbicide, one hand weeding operation, three cultivations, and a layby application of a herbicide.

SAMPLE COSTS TO PRO	DUCE COT	TON SAN	JOAQUIN	VALLEY	1985
DATA ENTRY SECTION					
Labor					
Field	\$/hr	(5.00		
Equipment Oper.	\$/hr	-	7.00		
Equipment Cost					
80 HP Tractor	\$/hr	13	2.40		
130 HP Tractor	\$/hr	18	3.00		
Yield	lbs/ac		1000		
Gin Turnout	%		33		
Estimated Price	\$/1bs	(0.65		
Seed to Lint Ratio			1.70		
Interest Rate	<u>%</u>		12.5		

SAMPLE COSTS TO PRODUCE COTTON (contined)

SAMPLE COSTS TO PROD	DUCE COTTON	√ (contine	ed)			
	UNIT				COST/	COST/
ACTIVITY	COST	UNIT	RATE	UNIT	ACRE	LBS
PRE-HARVEST COST						
Land Preparation						
Labor	7.00	\$/hr	3	hr/ac	21.00	
130 HP Tractor	18.00	\$/hr	ĩ	hr/ac	18.00	
80 HP Tractor	12.40	\$/hr	2	hr/ac	24.80	
Nematode Control	12.40	4/101	_	111 / 40	24.00	
if Needed	66.00	\$/ac	0	ac	0.00	
Preplant Herbicide	00.00	\$/ a C	U	ac	. 0.00	
Material	6.75	\$/ac	1	3.0	6.75	
	8.00	\$/ac	i	ac	8.00	
Application	0.00	\$/ac	'	ac	0.00	
Incorporation	7 00	¢ / 5	0	h = 1 = =	2 50	
Labor	7.00	\$/hr	0	hr/ac	3.50	
80 HP Tractor	12.40	\$/hr	0	hr/ac	6.20	
Planting						
Seed	0.50	\$/1bs	15	lbs/ac	7.50	
Labor	7.00	\$/hr	0	hr/ac	2.10	
80 HP Tractor	12.40	\$/hr	0	hr/ac	3.72	
Fertilizer						
Material (NH3)	0.18	\$/1bs	125	lbs/ac	22.50	
Application						
Custom	7.00	\$/ac	1	ac	7.00	
Irrigation		•••				
Water charge	25.00	\$/acft	3	acft/ac	75.00	
Labor (1 pre and	2000	47	-	,	,	
5 post irrig.)	6.00	\$/hr	6	hr/ac	36.00	
Postplant weed contr		Ψ/	·	,,, , ,	00.00	
Material	15.00	\$/ac	1	ac	15.00	
	8.00	\$/ac	i	ac	8.00	
Application			4		24.00	
Hand weeding (1x)	6.00	\$/hr	4	hr/ac	24.00	
Cultivation (3x)	7 00	¢ / h =	1 -	h=/	10 50	
Labor	7.00	\$/hr	1.5	hr/ac	10.50	
80 HP Tractor	12.40	\$/hr	1.5	hr/ac	18.60	
Mite Control	11 00	* 1	,		11 00	
Material	11.00	\$/ac]	ac	11.00	
Application	5.00	\$/ac	1	ac	5.00	
Insect Control						
Material	10.00	\$/ac	1	ac	10.00	
Application	5.00	\$/ac	1	ac	5.00	
Defoliation (2x)						
Material	10.00	\$/ac	1	x/ac	10.00	
Application	5.00	\$/ac	1	x/ac	5.00	
Land Rent	150.00	\$/ac	1	ac	150.00	
Non-tractor repair	20.00	\$/ac	1	ac	20.00	
Misc. Labor						
Labor	7.00	\$/hr	1	hr/ac	7.00	
80 HP Tractor	12.40	\$/hr	i	hr/ac	12.40	
	20.00	\$/ac	i	ac	20.00	
Office Expense Interest on Loan	20.00	Ψ/ α C	'	ac	20.00	
	286.79	\$/ac	12.5	\$/ac	35.85	
(prod. cost/2)*IR	200.73	φ/ac	12.5	φ/ aC	33.03	

SAMPLE	COSTS	T0	PRODUCE	COTTON	(continued)

SAMPLE COSTS TO PRODU		<u>ON (continu</u>	ied)			
ACTIVITY	UNIT COST	UNIT	RATE	UNIT	COST/ ACRE	COST/ LBS
TOTAL PREHARVEST COST					609.42	0.61
HARVEST COST						
Picking + Hauling 1st pick 90%	3.20	\$/cwt SC	27.27			
2nd pick 10% Ginning: (Bags,		\$/cwt SC		cwt/ac		
Ties, etc.)	3.20	\$/cwt SC	30.30	cwt/ac	96.97 	
TOTAL HARVEST COST					194.39	0.19
MISCELLANEOUS CASH CO CI Promotion \$1/bale .6% of value Pink bollworm National Cotton C. West. Cotton G. A. Classing	4 1.00 650.00	\$/ac	2 00	% halo/ac	3.90	
TOTAL MISCELLANEOUS C					12.71	0.01
TOTAL CASH COST					816.52	0.82
DEPRECIATION Irrigation system 80 HP Tractor 130 HP Tractor Other Equipment	300.00 2.58 4.75	\$/ac \$/hr \$/hr	16 5.25 1	years hr/ac hr/ac years	13.55	
INTEREST ON INVESTMEN Irrigation system 80 HP Tractor 130 HP Tractor Other Equipment	160.00 1.94 3.56	\$/nr	ı	nr/ac	3.30	
TOTAL NON-CASH COST					87.04	0.09
TOTAL COST OF PRODUCT					990.60	0.99
CREDIT FOR SEED	125.00	\$/ton	0.85	ton/ac	106.25	0.11
NET COST OF PRODUCTIO					884.35	0.88
PROFIT OR LOSS					-234.35	-0.23