Doc. 13

SURVEY OF COST OF PRODUCTION OF RAW COTTON



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SURVEY OF COST OF PRODUCTION OF RAW COTTON

The XXIX Plenary Meeting of the ICAC (1970) directed the Secretariat to conduct a survey of the cost of producing raw cotton in the various countries. The results of the original inquiry were presented as Document 17 of the XXX ICAC Plenary Meeting, held in June 1971. After consideration by that meeting, the Secretariat was instructed to re-examine the document, make any necessary adjustments, and attempt to obtain information from countries which did not respond to the earlier questionnaire. Accordingly, this revised version contains data from ten additional countries, as well as adjusted figures in certain cases for countries which had submitted replies to the first survey.

The Secretariat acknowledges with appreciation the cooperation of the various member and non-member countries which made this compilation possible.

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TABLE I

Cotton yields, farm prices, and government payments

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Table 1 - Cotton yields, farm prices. and government payments

QUESTION	Algeria	Angola	Australia (1966/67 data)	Cameroon	Colombia
For farmers who sell their cotton as seed cotton (unginned): A. Yield of seed cotton per unit of land - kilos/hectare	600	1,000		700	1,500
B. Percentage of lint outturn under normal commercial conditions	33%	38%	3	37.5%	
C. Average price received by farmer for seed cotton (unginned cotton) per unit of weight	\$0.24 kg.	\$0.18 kg.		\$0.114	.\$0.24 kj
For farmers who sell their cotton as lint cotto	n:				
A. Yield of lint per unit of land - kilos/ hectare		380	874 (Ord) 953 (Namoi)		540
B. Yield of seed per unit of land - kilos/ hectare		610	1, 796 (Ord) 1, 814 (Namoi)		900
C. Average price received by farmer for ginned cotton per kilo		\$0.62	\$0.582 (Ord) \$0.626 (Namoi)		\$0.539
D. Average price received by farmer for cotton-seed for crushing per kilo		\$0.06 (export) \$0.05 (local)	\$0.046 (Ord) \$0.053 (Namoi)		\$0.088
Government payment received by farmer. Specify payment rate, on what basis paid, and whether or not any overall upper limit.			Ave. payment 23.8- 24.0 US cents per kilo, lint basis. Upp- er limit 32.6 cents for M 1", with pre- miums and discounts for other grades.		

Costa Rica	Greece	Guatemala	Honduras	Iran	Ivory Coast	Malawi	Mexico
1,811	2,500	2, 267	2, 227	1,200 - 1,300	800	493	1, 995
40%	35.9%	35.7%		30 - 32%	40%	33%	38.0%
\$0.58 kg.	\$0.31 kg.	\$0.25 kg.	\$0.179 kg.	\$0.19 kg.	\$0.141	\$0.118 kg.	\$0.176 - 0.208 kg.
719	897	810		500 - 550			752
1,088	1,500	1,328		950 - 1,050			1,236
\$0.507	\$0.785	\$0.68					\$0.49 - \$0.57
\$0.082	\$0.11	\$0.07		·			\$0.044 \$0.051
	4.66 US cents/kg. for seed cotton or 12.96 cents/kg. for lint.			Low interest loan rate-\$26 per hectare at 6%, 40-50 kgs of im- proved seed per hectare,1/3rd of it free and 2/3rds on interest free credit distribution of 125- 150 kgs of fertilizer per hectare.			None

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Continued

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Table 1 - Cotton yields, farm prices, and government payments (continued)

QUESTION	Morocco	Mozambique	Nicaragua
For farmers who sell their cotton as seed cotton (unginned): A. Yield of seed cotton per unit of land - kilos/hectare	1,250	362	2,300
B. Percentage of lint outturn under normal commercial conditions	30 - 35%	32% .	33.9%
C. Average price received by farmer for seed cotton (unginned cotton) per unit of weight	\$0.26 kg.	\$0.161 (mill) \$0.124 (rural areas)	\$0.20 kg
For farmers who sell their cotton as lint cot A. Yield of lint per unit of land - kilos/ hectare	<u>.ton:</u> 	224	372
B. Yield of seed per unit of land - kilos/ hectare	-	448	615
C. Average price received by farmer for ginned cotton per kilo		\$0.62	\$0.579
D. Average price received by farmer for cotton-seed for crushing per kilo		\$0.019	\$0.07
Government payment received by farmer. Specify payment rate, on what basis paid, and whether or not any overall upper limit.	Credit-\$30 per farmer; in addi- tion special operations per- formed by agents from the Min. of Agriculture (ploughing, seed- ing, fertilization, chemical treatment and irrigation).	Technical help and some free services provided by the government (seed treat- ment and fibre distribution, classification, etc.).	None

Niger	Nigeria	Pakistan	Paraguay	Sudan	Syria	Spain
450	280-336	919	778	1,383	l,538 (irrigated) 296 (rainfed)	2,200 (irrigated 700 (rainfed)
36%	33 - 35%	33% roller gin 29% saw gin		36%	39%	33% (irrigated 35% (rainfed)
\$0.11 kg.	\$0.132 kg.	\$0.282 kg.	\$0.108 kg.	\$0.10 kg.	\$0.205.kg.	\$0.35 kg.
		l,052 (long staple cot <mark>t</mark> on)		498		
		2,105 (long staple cotton)		896		
		\$0.732 (long staple cotton)		\$0.68		
		Seed for long staple cotton normally not crushed.		\$0.030		
	Official price to grow- ers ranges from 9.9 - 13.2 US cents per kilo of seed cotton depend- ing on quality.			\$12.81 equivalent for various services (land clearance, sowing, weeding picking, etc.)		1

Table 1 - Cotton yields, farm prices, and government payments (continued)

	QUESTION	Thailand	Upper Volta	United States	Venezuela	Yemen, People's Dem.Rep.	Zaire - Rep.
c	r farmers who sell their cotton as seed outon (unginned): Yield of seed cotton per unit of land- kilos/hectare	1,850	291	Insignificant quantity soldas seed cotton.	1, 050	925	500 kg/ha
в.	Percentage of lint outturn under normal commercial conditions	33%	36.08%		34.77%	35%	35.35%
с.	Average price received by farmer for seed cotton (unginned cotton) per unit of weight		\$0.112 kg.		\$0.29 kg.	\$0.188	\$0.09 kg. 1st qualit; \$0.06 kg. 2nd qualit
	farmers who sell their cotton as lint cotto Yield of lint per unit of land - kilos/ hectare	<u>a;</u>		494			
в.	Yield of seed per unit of land - kilos/ hectare			841			
с.	Average price received by farmer for ginned cotton per kilo			\$0.494 (1970-71 average through November 1970). (\$0.472 in the Southwest to \$0.538 in the West).			
D.	Average price received by farmer for cotton-seed for crushing per kilo			\$0.056			None
Spe	ernment payment received by farmer. cify payment rate, on what basis paid, whether or not any overall upper limit.		None	See Annex 1	\$0.227 per kilo for long staple va- rieties; no maximum.		None

TABLE 2

Information relating to production and marketing costs of cotton

Table 2 - Information relating to production and marketing costs of cotton

	QUESTION	Algeria	Angola
1.	What approximate percentage of the cotton in your country is sold by the farmer in the form of seed cotton? What percentage as lint?	100% seed cotton	92% seed cottor 8% lint
2.	Please state the average, or most typical ginning charges per bale, including bagging and ties.	\$12.00	\$12.48
3.	If no independent ginning in country what is esti- mated cost of ginning a bale of cotton, including bagging and ties?		
4.	Average or typical net weight of bale - kgs.	250	208
5.	Average or typical weight of bagging and ties - kgs.	4.6	5
6.	Amount of charges, if any gins make for sampling, handling, and storing cotton until shipped to mill or port - per bale.		Included in 2. above
7.	Cost of storage, if any, after cotton has been moved from gin.		
8.	Transportation charge per bale for moving cotton from gin to port or mill.	\$1.00	\$1.66
9.	Port handling charges.	\$4.60	\$0.62 bale
10.	Other charges, fees, taxes, insurance, etc. (typical amounts charged before cotton reaches domestic mill or hold of ship).		\$6.24 bale
11.	What percentage of cotton acreage is fertilized?	100%	
12.	What is typical kind of fertilizer applied, where used?	Ammonium Nitrate Superphosphate	
13.	What is typical amount of fertilizer applied, where used?	4Qx/ha. Superphos. and 3Qx/ha. Amm. Nitrate (irrigated land). 2Qx/ha. Super- phos. and 1Q/ha. Amm. Nitrate (non- irrigated).	
14.	What percentage of cotton acreage receives insecticide?	100%	71.56% (1969)
15.	What are typical kinds of insecticides applied, where used?	Métasystémax, Kilval and Endrin	Carbaryl 85% DDT 75% Paratiao 50% Endos sulfao 35%
16.	What is typical number of applications of insecticides, where applied?	6	6 - 10
7.	To what percentage of cotton acreage are herbicides applied?		
18.	What herbicides are most frequently used?		
19.	Approximate number of man days to produce one hectare of cotton.	120	37 (coastal) 64 (interior) (1968)
20.	Approximate number of man days to harvest one hectare of cotton.	50	35 (coastal) 50 (interior) (1968)

Australia (1966/67 data)	Cameroon	Colombia	Costa Rica
100% lint	100% seed cotton	100% lint	100% seed cotton
\$60 (Ord) \$35 (Namoi)	\$10.83	\$7.78	\$16.35
NA			
227	200-205	246	218
NA	3	4.4	2.3
Included in 2. above			\$2.51
NA		\$1.30 per bale per month	
Included in 2. above	\$10.80	\$3.25	Included in 6. above
NA	\$1.81	\$1.20 bale	Included in 6. above
NA	\$5.05	\$2.35 bale	Included in 6 above
100%	40%	45%	100%
Nitrogenous and phosphatic	Ammonium Sulphate Ammonium Phosphate	Nitrogen (Urea 46%)	N. P. K.
208 kgs. Nitrogen per ha. in Ord area; 147 kgs. in Namoi	50% Ammonium Sulphate 50% Ammonium Phosphate	100 kgs/ha.	191 - 255 kg/ha.
100%	5%	100%	100%
Ord:DDT, endrin, parathion, endosulphan, toxaphene. Namoi:DDT, endrin, demeton- 5-methyl, dimethoate.	DDT, Endrin		Dusting type
15 (Ord) 12 (Namoi)	4	10 - 12	13
85% Ord 80% Namoi		80%	100%
Trifluran and either diuron or flumeturon		Herbam, Karmex, Lazo, Treflan and Cotoran	Pre-emergence and post- emergence
NA			52
Approximately 2-1/2 hours to harvest one ha, with a two- row spindle cotton picker.		15	29

Continued

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Table 2 - Information relating to production and marketing costs of cotton (continued)

	QUESTION	Dominican Republic	Egypt, Arab Republic
1.	What approximate percentage of the cotton in your country is sold by the farmer in the form of seed cotton? What percentage as lint?		100% seed cotton
2.	Please state the average, or most typical ginning charge per bale, including bagging and ties.		\$22.42 (long staple) \$17.72 (medium long)
3.	If no independent ginning in country what is esti- mated cost of ginning a bale of cotton, including bagging and ties?	\$7.12	
4.	Average or typical net weight of bale - kgs.	227	327
5.	Average or typical weight of bagging and ties - kgs.	5.4	5
6.	Amount of charges, if any, gins make for sampling, handling, and storing cotton until shipped to mill or port - per bale.		Included in 2. above
7.	Cost of storage, if any, after cotton has been mov .om gin.		Alexandria \$0.23 - \$0.81 per day Elsewhere - Nil
8.	Transportation charge per bale for moving cotton from gin to port or mill.		\$1.50
9.	Port handling charges.		\$0.03 (\$0.16 for furnigated bales)
10.	Other charges, fees, taxes, insurance, etc. (typical amounts charged before cotton reaches domestic mill or hold of ship)		Fees \$0.09, Taxes \$0.37, Insurance \$0.46 (inside the gin) - \$0.21 from gin to Alexandria
11.	What percentage of cotton acreage is fertilized?	100%	100%
12.	What is typical kind of fertilizer applied, where used?	Ammonium Sulphate 16-20-10; 16-20-0	Nitrogenous and phosphatic
13.	What is typical amount of fertilizer applied, where used?	45 lbs per application	N: 72 - 108 kgs/ha. P2 05 - 36 kgs/ha.
14.	What percentage of cotton acreage receives insecticide?	100%	100%
15.	What are typical kinds of insecticides applied, where used?		Chlorinated hydrocarbons, Organo phosphorous and carbonate
16.	What is typical number of applications of insecticides, where applied?	10 passes per application	3 - 4
17.	To what percentage of cotton acreage are herbicides applied?	Nil (used carlier)	Experimental stage
18.	What herbicides are most frequently used?	Treflan, Gesagard 50	Cotoran and Treflan
19.	Approximate number of man days to produce one hectare of cotton.		117
20.	Approximate number of man days to harvest one hectare of cotton.		65

1		Honduras	
Greece	Guatemala	(1969/70 data)	Iran
99,5% seed cotton 0.5% lint	95% seed cotton 5% lint	100% seed cotton	90% seed cotton 10% lint
\$9.85 per bale of 226.5 kgs.		\$21.30	\$7.1 - \$8.4
\$8.32 per bale of 226.5 kgs.			
257	227	227	200
3	3.2	2.3	• 5 - 6
	None	\$1.75	\$0.25 (handling) \$0.64 sampling and classification
	None		\$0.38 - \$0.45 bale first 3 months. \$0.25 bale each additional month.
\$17.99	\$3.75	\$0.40 (port)	\$2.5 - \$3.2
\$10.28 bale	\$1.35 bale	\$0.10 bale	\$0.64 bale
			\$0.50 bale
80%	80%	80%	60 - 70%
16-20-0 0-16/18-0; 21-0-0; 0-0-48		Ammonium Sulphate; Urea 10-20-0; 10-20-20; 20-20-0; 12-24-12	Ammonium Sulphate, Urea
83 kgs/ha. Nitrogen on 80% of plant- ings; 70 kgs/ha. phosphorous on 70% of plantings; 3 kgs/ha. potash on 1% of plantings.	130-194 kgs/ha.	328 kgs/ha.	120 - 150 kgs/ha.
90%	100%		80 - 90%
Chlorinated; derivates of carbonic acid; organo phosphorous.			Metasistox, Sevin, Guthion, Diptrex and Thedion
2 - 6	24	Once in 3 days depending upon degree of infestation	1 - 4
30-35%	50%	5%	
Treflan, Cotoran, Gesagard, Planavin		Herban	
70		NA	37 - 47

Continued

Table 2 - Information relating to production and marketing costs of cotton (continued)

	QUESTION	Ivory Coast	Malawi	Mexico
1.	What approximate percentage of the cotton in your country is sold by the farmer in the form of seed cotton? What percentage as lint?	100% seed cotton	100% seed cotton	.20% seed cottor 80% lint
2.	Please state the average, or most typical ginning charges per bale, including bagging and ties.	\$14.44		\$15.60
3.	If no independent ginning in country what is esti- mated cost of ginning a bale of cotton, including bagging and ties?		\$10.18	
4.	Average or typical net weight of bale - kgs.	222	186.4	230
5.	Average or typical weight of bagging and ties - kgs.	3	1.8	3.1 - 9.0
6.	Amount of charges, if any, gins make for sampling, handling, and storing cotton until shipped to mill or port - per bale.	Included in 2. above	Included in 3. above	
7.	Cost of storage, if any, after cotton has been moved from gin.	None	DNA	
8.	Transportation charge per bale for moving cotton from gin to port or mill	\$5.09 (port)	DNA	\$5.15-\$7.20 (port) \$7.30-12.50 (mill)
9.	Port handling charges	\$1.77 bale	DNA	
10.	Other charges, fees, taxes, insurance, etc. (typical amounts charged before cotton reaches domestic mill or hold of ship)	\$5.84 bale		
11.	What percentage of cotton acreage is fertilized?	80%	Only research plots & one special project	96 - 99%
12.	What is typical kind of fertilizer applied, where used?	NPS 20-20-16	Compound 20-20-0	Nitrogen and phosphorous
13.	What is typical amount of fertilizer applied, where used?	160 kg#/ha.	224 kgs/ha.	80,100,120 and 160 kgs/ha. of nitrogen: 40 kgs/ha. of phos- phorous
14.	What percentage of cotton acreage receives insecticide?	100%	100% with Settle- ment Schemes; out- side 14%	100%
15.	What are typical kinds of insecticides applied, where used?	Endrin DDT 45-12 Thiodon DDT 24-42	Carbaryl, Sevin, DDT, Menazon, Binapacryl	
16.	What is typical number of applications of insecticides, where applied?	. 4-6	12 within Settlement Scheme, outside 8	4-8
17.	To what percentage of cotton acreage are herbicides applied?	Nil		25 - 30%
18.	What herbicides are most frequently used?	DNA		Gesarol, Karmex, Treflan, Cotoran, Afalon
19.	Approximate number of man days to produce one hectare of cotton.	150	148	42 - 50
20.	Approximate number of man days to harvest one hectare of cotton.	35	37	12 - 15

Morocco (1969/70 data)	Mozambique	Nicaragua	Niger	Nigeria
100% seed cotton	81.4% seed cotton 18.6% lint	33.5% seed cotton 66.5% lint	100% seed cotton	100% seed cotton
\$33	\$14.90 per bale of 216.8 kgs.	\$13.90	\$12.94	
250	210	227	202	
	5	3.6	5.4	
\$7.00 (borne by the Marketing and Export Office)	Included in 2. above - up to 3 months	Nil	\$1.84	
Included in 6. above	First 7 days - free. Next 7 days - \$0.022 per bale per day. After 14 days - \$0.044 per bale per day.	\$2.57 (Including handling)	\$0.55 bale	
\$2.0 (to mill) \$0.4 (to port)	\$2.21	\$0.71	\$4.00	
\$2.00 bale	\$0.14 bale		\$1.39 bale	
\$18.00 bale	Land insurance 2.15% Tax \$0.027 ton, Duty 0.8% ad valorem	\$0.59	\$3.83	
	The second second second second second			
95% Ternary MPK	Only experimental plots Ternary composts	100% 10-30-10, 10-40-10, and Urea	3.5% Azote and Superphosphate	Very small Single superphospha and ammonium sul- phate
500 kgs/ha.	NPK 40-60-20		150 kgs/ha.	125 kg/ha. of each
95%	13%	100%	7.2%	Very small
Against Earias and pink bollworm	Carbaril 85% F, DDT 95% WP, Endosulfan 35% EC, Monocrotofos (Azodrin 5), Metasisstox 25% EC		Endrin and DDT	DDT/BHC or Carbaryl
6	8 - 10	20 - 25	4	6
Nil		35% Treflan, Cotoran,	None	None
DNA		Herban, Planavin, Karmex		
44.5	63 (average producer) 127 (above av. producer)		47	
16.5	20 (average producer) 75 (above av. producer)	20	37	

Table 2 - Information relating to production and marketing costs of cotton (continued)

	QUESTION	Pakistan	Paraguay	Syria
	What approximate percentage of the cotton in your country is sold by the farmer in the form of seed cotton? What percentage as lint?	100% seed cotton		100% seed cotton
2.	Please state the average, or most typical ginning charge per bale, including bagging and ties.	\$17.14		
s.	If no independent ginning in country what is esti- mated cost of ginning a bale of cotton, including bagging and ties?			\$8.16
4.	Average or typical net weight of bale - kgs.	178	200	202
	Average or typical weight of bagging and ties - kgs.	4	4.4	5
5.	Amount of charges, if any, gins make for sampling, handling, and storing cotton until shipped to mill or port - per bale.	\$0.11		Included in 3. above
r.	Cost of storage, if any, after cotton has been moved from gin	\$2.52 per annum		Included in 9. below
3.	Transportation charge per bale for moving cotton from gin to port or mill.	\$2.10	\$0.40	\$1.14
	Port handling charges	\$0.21 bale	\$1.08 bale	\$0.95 bale
0.	Other charges, fees, taxes, insurance, etc. (typical amounts charged before cotton reaches domestic mill or hold of ship)	Cess \$0.42, In- surance, Term. Tax & Octroi \$2.63	\$8.46 bale	\$21.98 bale
1.	What percentage of cotton acreage is fertilized?	75%	24%	85% (irrigated areas) None in rain-fed areas
2.	What is typical kind of fertilizer applied, where used?	Ammonium Sulphate 21% N. Urea 46% N	15-15-15	NP and Farm Yard Manure
3.	What is typical amount of fertilizer applied, where used?	125-250 kgs/ha.	150 kgs/ha.	NP - up to 80 kgs $P_2 0_5$ up to 80 kgs Farm Yard Manure up to 3 tons
4.	What percentage of cotton acreage receives inse sticide?	15 - 20%	100%	25 - 60%
5.	W' at are typical kinds of insecticides applied, v ≀ere used?	Phosphatic insecti- cides, Organophos- phorous plus Chlori- nated hydrocarbons	Mineral dusting types	Cotton dust, Sevin, Toxaphene
	What is typical number of applications of insecticides, where applied?	2 - 4	3	2
7.	To what percentage of cotton acreage are herbicides applied?	Nil		1%
8.	What herbicides are most frequently used?	DNA		Treflan
9.	Approximate number of man days to produce one hectare of cotton		53	164
0.	Approximate number of man days to harvest one hectare of cotton		22	40 - 60

N. A. -Not available. DNA - Does not apply.

Spain	Thailand	Upper Volta	United States
99% seed cotton 1% lint	100% seed cotton	100% seed cotton	Less than 0.5% seed cotton Over 99.5% lint
Included in 3.		\$11.30	\$19.15 bale - gross weight 227 kgs.
\$16	\$7.5		
250		200	219
4		3	• 9.5
\$10		\$1.48	None
\$0.35 per bale per month		\$0.73 bale	Receiving at compress/warehouse (1969/70). Storage for first month (1969/70) (details Annex 2). Descr of regions Annex 3).
	\$1.5	\$2.90	\$2.50 - \$10.45 (details Annex 2)
	Sold to local mills	\$1.52 bale	\$4.90 (high density compression) (details Annex 2)
l centavo per kilo per month		\$0.62 bale	\$8.85 - \$17.55 (details Annex 2)
90%	Nil	17%	74% (details Annex 4)
Urea, nitrogen sulphate, NPK		Ammonium sulphate (30%) & ammonium phosphate (70%)	N. P. K. (details Annex 4)
150 kgs/ha. N 150 kgs/ha. P 60 kgs/ha. K		100 kg/ha.	137 kgs. of nutrients per hectare (details Annex 4)
	100%	32%	54% (1966 survey) - (details Annex
Metasistox,Sevin, Rogor	Toxaprine 40% DDT 20% Methyl 10%	DDT, Endrin	Numerous kinds (details Annex 6)
5 - 7	6	2.15	1 - 8 (details Annex 6)
60%		None	52% (1966 survey) - (details Annex
Treflan and Cotoran			Trifluralin, Diuron (details Annex
100 irrigated 60 raingrown	181	105	50.7 (details Annex 5)
50 irrigated 25 raingrown	50	25	10.4 (details Annex 5)

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Table 2 - Information relating to production and marketing costs of cotton (Continued)

	QUESTION	Venezuela	Yemen, People's Dem. Rep.	Zaire - Rep.
1.	What approximate percentage of the cotton in your country is sold by the farmer in the form of seed cotton? What percentage as lint?	100% seed cotton	100% seed cotton	100% seed cotton
2.	Please state the average, or most typical ginning charges per bale, including bagging and ties.	\$15.21		
3.	If no independent ginning in country what is esti- mated cost of ginning a bale of cotton, including bagging and ties?		\$16.8	
4.	Average or typical net weight of bale - kgs.	232	178.5	99
5.	Average or typical weight of bagging and ties - kgs.	4	4.46	1
6.	Amount of charges, if any, gins make for sampling, handling, and storing cotton until shipped to mill or port - per bale.	\$0.08	Nil	
7.	Cost of storage, if any, after cotton has been moved from gin.	\$0.011 per kilo per month.	Nil	
8.	Transportation charge per bale for moving cotton from gin to port or mill	\$2.27	\$0.24	
9.	Port handling charges.	None	\$0.60	
10.	Other charges, fees, taxes, insurance, etc. (typical amounts charged before cotton reaches domestic mill or hold of ship).	None	\$0.78	
11.	What percentage of cotton acreage is fertilized?	55%	10%; no fertili- zation earlier	
12.	What is typical kind of fertilizer applied, where used?	NPK (10-20-10; 12-12-17; 15-15-15; & 12-12-6), Urea, amm. sulphate, phos- phate of amm. & potassium sulphate.	' Urea	None
13.	What is typical amount of fertilizer applied, where used?	350 kgs/ha.	50 kgs.	None
14.	What percentage of cotton acreage receives insecticide?	90%	Negligible	
15.	What are typical kinds of insecticides applied, where used?		Sevin	Liquid and cotton dust
16.	What is typical number of applications of insecticides, where applied?	6		2
17.	To what percentage of cotton acreage are			
18.	herbicides applied? What herbicides are most frequently used?	40% Lazo, Treflan, Cotoran, Altain, Karmex and Daconate.		None
19.	Approximate number of man days to produce one hectare of cotton.	45	25	
20.	Approximate number of man days to harvest one hectare of cotton	25	45	

N.A. Not available. DNA Does not apply.

ANNEX 1

Government payments received by farmers in the United States

In 1970, the total value of the upland cotton crop produced was about \$1,142,185,000. In addition, direct government price support payments to producers totaled about 890 million dollars. Prices received by farmers to December 1, 1970 averaged 22.4 cents per pound of lint. When government price support payments are included with prices received, the producer's average receipt per pound of lint produced in 1970 was about 39.9 cents.

The price support payment rate in 1970 was 16.8 cents per pound of lint. This payment was earned on the farm's domestic allotment which was 65 percent of the total effective allotment. The payment of 16.8 cents per pound was made on the farm's projected yield multiplied by the farm's domestic allotment, or the acreage planted if it were less than 90 percent of the domestic allotment. Projected yields for a farm were based on the average yield per harvested acre on the farm for the three preceding years, adjusted for trends in yield and other factors.

Special provisions in the 1970 program were made to benefit small farms-those with cotton allotments of 10 acres or less or farms with projected production from the allotment of 3,600 pounds or less. In addition to qualifying for the regular price-support payments, as stated above, on the domestic allotment, these farms were also eligible for a small farm payment of 11.95 cents per pound multiplied by the farm projected yield and multiplied, in turn, by 35 percent of the farm allotment. Small farms could receive this payment without planting any cotton.

No payment limitations were imposed on the 1970 crop.

Important changes were made in the 1971 upland cotton program. A payment limitation of \$55,000 per person per crop was imposed. A national average loan rate of 19.5 cents per pound (net weight) for Middling one-inch upland cotton was established. In addition to this loan rate, a "set-aside" payment of at least 15 cents per pound will be made. The latter payment, when added to the national average market price for Middling one-inch cotton, must be high enough to equal the higher of (1) 35.0 cents, or (2) 65 percent of parity as of August 1, 1971. Payments will be made on the basis of the acreage planted within the farm base acreage allotment. Payments will, in general, be made on the average yield of acreage harvested during the three preceding years. To be eligible for loans and payments, cotton producers must set aside and devote to conserving uses an acreage of cropland equal to 20 percent of the farm base acreage allotment. For 1971, allotments were reduced so that the farm base acreage allotment in 1971 is about equal to the domestic allotment (65 percent of total) in 1970.

...

Details regarding answers to questions 7, 8, 9 and 10 (USA)

7.¹ Receiving at compress/warehouse - \$0.97 - average 1969 - 70

Storage for first month - 0.63 - "

(Grower or merchant pays storage for number of months bale is in storage.) Standard density charge - \$2.08 = average 1969 - 70

8. Pure transportation charge - 1970

Southeast to mill	50	po	ints
Mid-South	106	"	"
Southwest			
Houston	120		
El Paso	156	11	"
West	209	"	"

9. Port handling charges (based on tariffs of two large port facilities in 1968)

- Receiving, tagging, weighing, drawing one set of samples, issuing individual warehouse receipts, picking out numbers, marking and delivering shipside or loading to cars, per bale ------\$1.75
- Item 1 services, above, plus compression to high density, per bale ------\$3.10

NOTE: When compression to high density is not performed in connection with any other services, the compression charge per bale is \$2.00

- Storage, including fire insurance per bale per month or fraction thereof ------\$0.55
- Unloading and delivering cotton from consolidated cars or trucks to shipside terminal -----\$1.25

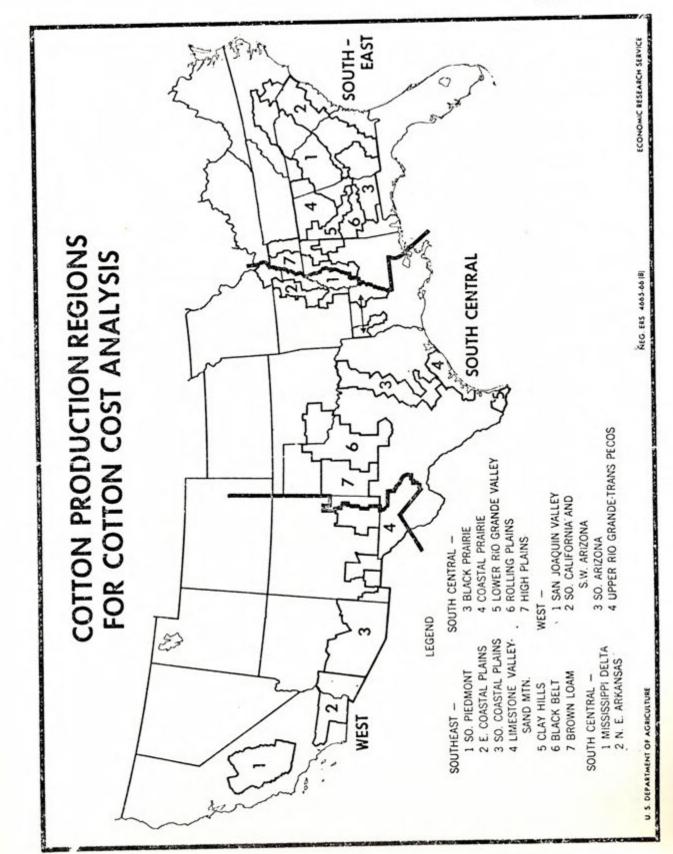
10.² Charges to land cotton at mill door, 1970

23 points receiving-- this charge rebated to mill in final settlement. 16 points storage for current month. 45 points compression 25 points loading (30 in El Paso - 40 in West) 50-209 points transportation (see answer to question 8) 20 points commission 3 points exchange 18 points one month interest.

SOURCE: <u>Ginning Charges & Related Data</u>, 1969-70
 Based on actual records of Dec-Jan 1971 for large firm.

NOTE: One"point" = 5 cents per bale.





ANNEX 4

: Region :	% of Cotton Acres receiving Fert. total (%)	:::::::::::::::::::::::::::::::::::::::		ge Rate kgs per			lica	ation	
÷		;	- · ·	₽ <u>2</u> Г	:	к	:	Total	_
	10	:	<i>.</i> .				67.22EC		
Southwest:	49	:	61	21		19		100	
Southeast:	98	÷	86	33		73		221	
Delta:	97	:	90	25		50		131	
Western:	89	:	140	31		17		154	
.U. S. average	74	:	85	27		53		137	

Fertilizer use on Cotton acreage, U. S and selected regions

1/ Source: Derived from Data collected by S.R.S. on the Objective Yield Survey- Crop Production U.S.D.A., SRS., CrPr 2-2 (1-71) P. 13

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Nutrients are shown in terms of the elements N, P, and K.

ANNEX 5

Labor use on cotton, U. S. and selected regions, 1970 $\frac{1}{}$

	:	Hours	labor per ha. harve	ested
Region	:	Preharvest	Harvest	Total
	:	Hours	Hours	Hours
Southeast	:	62.5	16.1	78.6
Delta	:	53.6	15.1	68.7
Southwest	:	43.0	6.7	49.7
Vest		61.0	6.7	67.7
	:			
United States	:	50.7	10.4	61.1

 $\frac{1}{Based}$ on extrapolation of 1969 estimates for major production regions.

ANNEX 6

Insecticide and herbicide use on cotton, U. S. selected regions, 1966

Description	Southeast	: : Delta :		Southwest		West		: United States	ates
Percentage of cotton : acreage treated with one: or more insecticides :	69	76		37		63		54	
Typical insecticides used: and average number of : applications during vr.; DDT		Toxanhene	4.2	Toxanhene	5	Toxanhana	8	Townshine	4 4
	Toxaphene 5.3	DDT	5.1	DDT Methwl -	3.5	DDT	4.4	DDT Mothul -	2.0
	parathion 6.5	Strobane Mothul -	5.6	parathion Parathion	5.2	Bidrin 1.	1.0	parathion	5.0
		parathion	5.7	=	8.0	(Dipterex) 4.3	4.3	(ethy1)	5.0
		Carbaryl	2.5	y1	9.6	Parathion	•	Strobane	5.2
				ULIDIO	0.4	(etnyl)	0.2		
Percentage of cotton : acreage treated with one: or more herbicides	62	17		32		45		52	
Typical herbicides used -: Trifluralin	Trifluralin Diuron	Trifluralin Diuron		Trifluralin Diuron		Trifluralin	F	Trifluralin Diuron	

COST OF PRODUCTION DATA FOR INDIVIDUAL COUNTRIES

*

and the a

Country ALGERIA

Crop year 1967/68

	Estimated cos	st of producing a	a hectare of cotton	
Item		In major producing zones		
	National average=/	Average producer 3/	Above average producer 3	
Yield used (kilos per hectare)	870	520	1,260	
On farm direct costs		US \$ per he	ectare	
ou la multicer coore				
Preharvesting:	129.02	118.29	139.76	
Labor Power and equipment	129.02	110.29	139.10	
Seed	14.58	14.58	14.58	
Fertilizer	54.69	50.64	56.71	
Herbicides	30.38	20.26	40.51	
Insecticides and fungicides Defoliants and other chemicals	50.50	20.20	40.51	
Irrigation	90.94	81.02	162.04	
Custom or contract work				
Other (specify) <u>Maintenance</u>	44.36	43.95	44.36	
Subtotal	363.97	328.74	457.96	
Harvesting:				
Labor Power and equipment	101.28	91.15	121.53	
Custom or contract work				
Other (specify) Picking	5.47	4.05	6.08	
Subtotal	106.75	95.20	127.61	
Off farm direct costs				
Transportation to gin	5.47	4.46	6.08	
Ginning (including bagging and ties) Other (specify)	38.89	24.31	58.33	
Subtotal	44.36	28.77	64.41	
Total direct costs	515.08	452.71	649.98	
Overhead costs:				
Management and administration	6.08	5.06	7.09	
Land cost (typical rental value) Other (specify) <u>Unforeseen 5%</u>	26.74	23.70	33.83	
TOTAL COSTS	547.90	481.47	690.90	

 $\underline{1}$ / Irrigated and non-irrigated. $\underline{2}$ / Non-irrigated. $\underline{3}$ / Irrigated.

Country ANGOLA

Crop year 1968

	Estimated co	st of producing	a hectare of cotic
ltem		In major pro	ducing zones
	Average producer	Average producer	Above average producer
Yield used (kilos per hectarc)	Coastal 900 kgs	Interior 1,300 kgs	3,000 kgs
On farm direct costs	<u>U</u>	S \$ per hectare	
Preharvesting:			
Labor	19.55	33.47	
Power and equipment	28.30	34.95	
Secd	00.84	1.60	
Fertilizer			
Herbicides			
Insecticides and fungicides	26.66	33.33	
Defoliants and other chemicals	20.00	55.55	
Irrigation			
Custom or contract work			
Other (specify)			
Subtotal	75.35	103.35	
Harvesting:			
Labor	19.17	27.57	
Power and equipment			
Custom or contract work			
Other (specify)			
Subtotal	19.17	27.57	
Off farm direct costs			
Transportation to gin	4.50	8.67	
Ginning (including bagging and ties)	21.60	31.20	
Other (specify)	5.33	8.00	
other (specify)	5.55	0.00	
Subtotal	31.43	47.87	
Total direct costs	125.95	1	
	125.95	178.79	
Overhead costs:			
Management and administration	22.28	30.72	
Land cost (typical rental value)			
Other (specify)			
TOTAL COSTS	140.00	200.51	
101AL COS15	148.23	209.51	

Country AUSTRALIA

Crop year _ 1966/67

E	stimated co	ost of producing	a hectare of cotton
		In major pro	ducing zones
Item	National	Ord	Namoi
	average	average	average
Yield used (kilos per hectare)		2497	2723
		US \$ per hecta	and the second of the second of the second of the
On 1arm direct costs			•
Preharvesting (and harvesting):			
Labor		49	132
Power and equipment (inc. depreciationa	nd repairs)		192
Seed		1	11
Fertilizer		64	35
Herbicides		1	1
Insecticides and fungicides		93	79
이 것 같은 것 같		l'	
Defoliants and other chemicals		1 25	
Irrigation		25	4
Custom or contract work		62	49
Other (specify) Freight & cartage		2	9
Insurance		2.5	12
Other		5	21
Subtotal		380	544
Harvesting: (included above)			
Labor			
Power and equipment			
Custom or contract work			
Other (specify)			
Subtotal			
Off farm direct costs			×
Transportation to gin (included above)			
Ginning (including bagging and ties)) 232	141
Other (specify) and marketing)	
Cubtoto 1			
Subtotal Fotal direct costs		(10	105
lotal direct costs		612	685
Overhead costs:			
Management and administration (included	in other)		
Land cost (typical rental value)			
Other (specify) Interest on total capital			
including land at fair market value		38	76
TOTAL COSTS		650	761
TOTAL COSIS		050	101

Country CAMEROON *

Crop year

Labor Power and equipment Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal	National average 700 20 4 4	In major pro Average producer 600 US \$ per 18 3 2	Above average producer 800/900 hectare 25 6
Yield used (kilos per hectare) On-farm direct costs Labor Power and equipment Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other	20 4	producer 600 <u>US \$ per</u> 18 3 	producer 800/900 hectare 25
On-farm direct costs Labor Power and equipment Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other	20 4	<u>US \$ per</u> 18 3	hectare 25
On-farm direct costs Labor Power and equipment Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other	4	18 3 	25
Labor Power and equipment Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other	4	3	
Power and equipment Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other	4	3	
Labor Power and equipment Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other	4	3	
Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other		3	
Seed Fertilizer Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other		10 CT 4 CT	
Herbicides Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other	4	2	
Insecticides and fungicides Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other			12
Other chemicals Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other		1	
Irrigation Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other			
Other Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other			
Subtotal Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other			
Off-farm direct costs Transportation to gin Ginning (including bagging and ties) Other			1
Transportation to gin Ginning (including bagging and ties) Other	28	23	43
Ginning (including bagging and ties) Other			
Ginning (including bagging and ties) Other			
Other	45	40	55
	35	33	54
Subtotal			
	80	73	109
Total direct costs	108	96	152
Overhead costs Land			
General overhead			
Total overhead costs			
			and the second se
Total Costs	108	96	152
			1

* Response to an earlier draft of the questionnaire.

Country COLOMBIA

Crop year

	Estimated co	st of producing	a hectare of collo
Item		In major pro	oducing zones
	National average	Average producer	Above average producer
Yield used (kilos per hectare)	1,500		
On farm direct costs		US \$ per	hectare
Preharvesting:			
Labor	23.70		1
Power and equipment			
Seed	4.80		
Fertilizer	15.87		
Herbicides	19.20		
Insecticides and fungicides	94.90		
Defoliants and other chemicals Irrigation *			1.1.1.1.1.1.1.1
Custom or contract work	28.82		
Other (specify)			
Subtotal	187.29		
Harvesting:			
Labor	40.36		
Power and equipment			
Custom or contract work			
Other (specify) Local transportation.	1.29		
Subtotal	41.65		
Off farm direct costs			
Transportation to gin	6.83		
Ginning (including bagging and ties)	27.73		
Other (specify)	12.37		
Subtotal	46.93		
Total direct costs	275.87		
Developed and the			1
Overhead costs:	10.00		
Management and administration	13.72		
Land cost (typical rental value)	38.00		
Other (specify)	39.65		
TOTAL COSTS	367.24		

* Omitted.

Country COSTA RICA

Crop year _____

	Estimated cost of producing a hectare of cotto			
	In major		or producing zones	
Item	National	Average	Above average	
	average	producer	producer	
Yield used (kilos per hectare)				
Tield used (knos per nectare)	US \$ per hectare			
On farm direct costs			T	
Preharvesting:				
Labor) 105.19			
Power and equipment	105.19			
Seed	3.89			
Fertilizer	27.89			
Herbicides	16.76			
Insecticides and fungicides	61.34			
Defoliants and other chemicals	-			
Irrigation				
Custom or contract work				
Other (specify)Bales	1.92			
Subtotal	216.99			
Harvesting:				
Labor	60.00			
Power and equipment	00.00			
Custom or contract work				
Other (specify) Baling, insurance	5.94			
etc.	5.94			
Subtotal	65.94			
Off farm direct costs				
Transportation to gin	7.26			
Ginning (including bagging and ties)	46.74			
Other (specify) transportation to mills				
and ports, insurance, etc.	11.96			
Subtotal	65.96			
Subtotal				
Total direct costs	348.89			
Overhead costs:				
Management and administration	a conservation of			
Land cost (typical rental value)	36.84			
Other (specify) Other expenses	37.42			
	122.15			
TOTAL COSTS	423.15			

Country EGYPT, Arab Republic

Crop year _____ 1969/70

	Estimated cost of producing a hectare of cot:		
Itern		in major producing zone	
	National average	Average producer	Above average producer
Yield used (kilos per hectare)		1	1
On farm direct costs		US \$ per	l
Preharvesting:	1		
Labor	52.56		
Power and equipment			
Seed	10.57		
Fertilizer	58.64		1
Herbicides	65.04		
Insecticides and fungicides			
Defoliants and other chemicals			
Irrigation	28.64		
Custom or contract work			
Other (specify)			
Subtotal	215.45		
Harvesting:			
Labor	52.01		
Power and equipment			
Custom or contract work	1		
Other (specify)			
Subtotal			
Subtotal	52.01		
Off farm direct costs			
Transportation to gin			
Ginning (including bagging and ties)			
Other (specify)			
Subtotal			
Fotal direct costs	267.46		
	001140		
Overhead costs:	1		
Management and administration			
Land cost (typical rental value)	130.80		
Other (specify)	4.65		
TOTAL COSTS	402.91		

Country_GREECE

Crop year _____1971

	Estimated cost of producing a hectare of cotto		
		In major producing zones	
Item	National	Average	Above average
	average	producer	producer
	2,500 kg/ha seed cotton		
Yield used (kilos per hectare)	seed cotton		
On farm direct costs		US \$ per hect	are
on farm direct costs			
Preharvesting:	1		
Labor	116.90		
Power and equipment	68.28		
Seed	5.00		1
Fertilizer	24.60		
Herbicides	6.40		
Insecticides and fungicides	12.50		
Defoliants and other chemicals	.50		
Irrigation	19.63		
Custom or contract work	-		
Other (specify) <u>2% misc, charge</u>	5.14		
Other (specify) _2% misc. charge	5.14		
Subtotal	258.95		
Harvesting:			
Labor	170.69		
Power and equipment	2.72		
Custom or contract work			
Other (specify) transportation of			
workers	3.40		
WYINGIS	5.10		
Subtotal	176.81		
Off farm direct costs			
ALL AND MILLEVE COULD			
Transportation to gin			
Ginning (including bagging and ties)			
Other (specify)			
<u> </u>			
Subtotal Total direct costs			
lotal direct costs			
Overhead costs:			
Management and administration			
Land cost (typical rental value)	155.20		
Other (specify) _Interest on circulat-			
ing capital	17.43		
Local tax	20.40		
TOTAL COSTS	628.79		
	010117		

Country__GUATEMALA

Crop year 1970/71

	Estimated cost of producing a hectare of cotton			
Item	In major producing zones			
	National average	Zone 1	Zone 2	
Yield used (kilos per hectare)				
On farm direct costs	-	US \$ per hectar	e	
Preharvesting:		5.71	5.71	
Labor (soil preparation)		5.11	5.11	
Power and equipment		4.28	4.28	
Seed (30 lbs)				
Fertilizer (2 sacks)		17.13	17.13	•
Herbicides				
Insecticides and fungicides(labor cost)		85.70	54.28	
Defoliants and other chemicals		5.71	4.28	
Irrigation		-		
Custom or contract work		7.14	5.71	
Other (specify) Seeding		1.43	1.43	
Land maintenance		14.28	11.43	
Fertilizer application		1.43	1.43	
Subtotal		142.81	105.68	
Harvesting:				
Labor		74.99	53.56	
Power and equipment				
Custom or contract work				
Other (specify) Cleaning after harvest		2.86	2.86	
		3222 665		
Subtotal		77.85	56.42	
Subtotal Off farm direct costs		77.85	56.42	
Off farm direct costs				
Off farm direct costs Transportation to gin		10.00 <u>a</u> /	14.28 <u>b</u> /	
Off farm direct costs				
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) <u>Machinery upkeep</u>		10.00 <u>a</u> / 60.87 7.14	14.28 <u>b</u> / 44.68 7.14	
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) <u>Machinery upkeep</u> Subtotal		10.00 <u>a</u> / 60.87 7.14 78.01	14.28 <u>b</u> / 44.68 7.14 66.10	
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) <u>Machinery upkeep</u> Subtotal		10.00 <u>a</u> / 60.87 7.14	14.28 <u>b</u> / 44.68 7.14	
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) <u>Machinery upkeep</u> Subtotal Fotal direct costs Overhead costs:		10.00 a/ 60.87 7.14 78.01 298.67	14.28 <u>b</u> / 44.68 7.14 66.10 228.20	
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) <u>Machinery upkeep</u> Subtotal Fotal direct costs <u>Overhead costs:</u> Management and administration		10.00 a/ 60.87 7.14 78.01 298.67 28.28	14.28 b/ 44.68 7.14 66.10 228.20 14.28	
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) Machinery upkeep Subtotal Total direct costs Overhead costs: Management and administration Land cost (typical rental value)		10.00 a/ 60.87 7.14 78.01 298.67	14.28 b/ 44.68 7.14 66.10 228.20 14.28 14.28	
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) <u>Machinery upkeep</u> Subtotal Total direct costs <u>Overhead costs:</u> Management and administration Land cost (typical rental value) Other (specify) <u>6 months interest</u>		10.00 <u>a</u> / 60.87 7.14 78.01 298.67 28.28 28.57 10.80	14.28 b/ 44.68 7.14 66.10 228.20 14.28	
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) Machinery upkeep Subtotal Total direct costs Overhead costs: Management and administration Land cost (typical rental value) Other (specify) 6 months interest Special benefits to workers		10.00 <u>a</u> / 60.87 7.14 78.01 298.67 28.28 28.57 10.80 11.43	14.28 b/ 44.68 7.14 66.10 228.20 14.28 14.28	
Off farm direct costs Transportation to gin Ginning (including bagging and ties) Other (specify) <u>Machinery upkeep</u> Subtotal Total direct costs <u>Overhead costs:</u> Management and administration Land cost (typical rental value) Other (specify) <u>6 months interest</u>	1.	10.00 <u>a</u> / 60.87 7.14 78.01 298.67 28.28 28.57 10.80	14.28 b/ 44.68 7.14 66.10 228.20 14.28 14.28 7.88	

<u>a</u>/ 1,588 kgs. <u>b</u>/ 1,134 kgs.

Country HONDURAS

Cost of producing one hectare of cotton

Crop year

TOTAL COST National average \$250 Average producer \$225

Only total costs are given as the Cooperativa Algodonera does not have sufficient information on these items. The Cooperativa would have to obtain data from each individual producer in order to fill the detailed table. Costs are about the same in the two producing regions of the country.

Country IRAN

Crop year _ 1970/71

ear 19/0//1

Item Yield used (kilos per hectare) On farm direct costs	National average 1,200 - 1,30	Average producer	oducing zones Above average
	average	producer	
	1,200 - 1,30		producer
		q	
On form direct costs	US \$ per hectare		
on farm direct costs			
Preharvesting:			
Labor	52	52	65
Power and equipment	18.8	16.8	15.5
Seed	7.1	6.4	4.5
Fertilizer	3.8	12.9	19.4
Herbicides			
Insecticides and fungicides	5.2	12.9	25.8
Defoliants and other chemicals			
Irrigation	6.4	19.4	38.7
Custom or contract work	1.9	1.9	1.9
Other (specify)			
Subtotal	95.2	122.3	170.8
Harvesting:			
Labor	32.4	38.7	58.4
Power and equipment			
Custom or contract work			
Other (specify) Transportation (from			
farm to the store in village)	0.60	0.90	1.30
Subtotal	33.00	39.60	59.70
Off farm direct costs			
Transportation to gin	1.5	1.9	3.2
Ginning (including bagging and ties)	15.5	19.4	31.1
Other (specify) 1) Handling in gin	0.30	0.40	0.60
2) Cotton seed sorting & brokerage	1.30	1.60	2.50
3) Cost of classification of bales	1.30	1.60	2.50
Subtotal	19.90	24.90	3.9.90
otal direct costs	148.1	186.8	270.4
Overhead costs:			
Management and administration	23.3	22	16.8
Land cost (typical rental value)	38.7	52	52
Other (specify)			
TOTAL COSTS	210.1	260.8	339.2

Country IVORY COAST

Crop year _____ 1970/71

	Estimated cost of producing a hectare of cot		
Item		In major producing zones	
	National average	Average producer	Above average producer
Yield used (kilos per hectare)			1.500
		US \$ per hectare	
On farm direct costs			
Preharvesting:			
Labor		107.00	117.00
Power and equipment			
Seed		.58	.58
Fertilizer 🗧		15.90	15.90
Herbicides			1
Insecticides and fungicides		19.90	19.90
Defoliants and other chemicals			
Irrigation			
Custom or contract work			
Other (specify)			
	1		
Subtotal		143.38	153.38
Harvesting:		1	
Labor		25.10	35.80
Power and equipment			
Custom or contract work			
Other (specify)			
Subtotal		25.10	35.80
Off farm direct costs			
Transportation to gin		13.90	26.10
Ginning (including bagging and ties)		20.80	39.10
Other (specify)			Ú.
Subtotal		34.70	65.20
Total direct costs		203.18	254.38
		203.10	204.38
Overhead costs:			
Management and administration			
Land cost (typical rental value)			
Other (specify)			
TOTAL COSTS		202.10	254 20
TOTAL COSTS		203.18	254.38

35

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Country MALAWI

Crop year 1969/70

	Estimated cost of producing a hectare of cotton			
Item		In major producing zones.		
	National average	Average producer *	Above average producer	
Yield used (kilos per hectare)	493			
On farm direct costs		US \$ per h	ectare	
Preharvesting:				
Labor	26.64			
Power and equipment				
Seed	1.48			
Fertilizer				
Herbicides				
Insecticides and fungicides	5.00			
Defoliants and other chemicals				
Irrigation				
Custom or contract work				
Other (specify) Knaprach sprayer				
cost (including repair)	2.40			
Subtotal	35.52			
Harvesting:	22.20			
Labor	33.30			
Power and equipment				
Custom or contract work				
Other (specify)				
Subtotal	33.30			
Off farm direct costs				
Transportation to gin	2.85			
Ginning (including bagging and ties)	8.88			
Other (specify) Marketing costs of	0.00			
statutory board	9.09			
	9.09			
Subtotal	20.82			
fotal direct costs	89.64			
Overhead costs:				
Management and administration +				
Land cost (typical rental value)	*			
Other (specify) + Overheads (Admin.)				
Financing and subsidy of statutory				
marketing board	9.03			
TOTAL COSTS	98.67			

*Major producing zone (Southern Region and Salima Lakeshore) covers 95% of total area, therefore, equable with national average.

Country MEXICO

Crop year _____

	Estimated cost of producing a hectare of cottor				
	In major producing zones				
Item	Mexicali	La Paz	Sonora		
Yield used (kilos per hectare)					
		US \$ per hecta	re		
On farm direct costs					
Preharvesting:					
Labor)	70.40	(2.00		
Power and equipment	93.40	70.40	62.88		
Seed	13.36	13.36	13.12		
Fertilizer	40.96	43.92	. 38.64		
Herbicides					
Insecticides and fungicides	80.00	78.00	63.00		
Defoliants and other chemicals	00.00	10.00	00.00		
	14.40	100.42	9.20		
Irrigation	14.40	100.42	9.20		
Custom or contract work					
Other (specify)					
Subtotal	242.12	306.10	186.84		
Harvesting:	h and the second second		and the second se		
Labor	76.80	81.60	72.48		
Power and equipment					
Custom or contract work					
Other (specify)	23.00	15.20	14.40		
other (speed)/					
Subtotal	99.80	96.80	86.88		
*			Service Sector		
Off farm direct costs					
Transportation to gin	12.00	12.00	12.00		
Ginning (including bagging and ties)	62.93	75.70	71.94		
Other (specify)	54.75		1.1.74		
Subtotal	74.93	87.70	83,94		
Total direct costs	416.85	490.60	357.66		
iotal direct costs	410.85	490.00	357.00		
Overhead costs:			· · · · · · · · · · · · · · · · · · ·		
Management and administration	13.34	14.88	18.72		
Land cost (typical rental value)					
Other (specify) Interest, taxes, cost					
of water, etc.	64.31	52.90	94.71		
TOTAL COSTS	494.50	558.38	471.09		
TOTAL COS15	494.50	556.38	4/1.09		

Country MEXICO (continued)

Crop year _____

	Estimated cost of producing a hectare of cotton				
	In major producing zones				
Item	Sinaloa	Apatzingan	Tapachula		
Yield used (kilos per hectare)			I		
On farm direct costs		US \$ per hecta	l		
Preharvesting:					
Labor					
Power and equipment	72.30	106.80	74.40		
Seed	14.00	12.08	9.20		
Fertilizer	50.82	56.00	38.00		
Herbicides	50.02	50.00	50.00		
Insecticides and fungicides	41.92	104.80	96.00		
Defoliants and other chemicals					
Irrigation	16.65	9.60			
Custom or contract work					
Other (specify)					
other (specify)			1 A A		
Subtotal	195.69	289.28	217.60		
Harvesting:					
Labor	93.60	63.10	51.20		
Power and equipment			Dec 1		
Custom or contract work					
Other (specify)	12.80	14.40	10.80		
	12.00	14.40	10.80		
Subtotal	106.40	77.50	62.00		
Off farm direct costs					
on farm direct costs					
Transportation to gin	6.00	14.40	9.60		
Ginning (including bagging and ties)	51.34	66.24	46.08		
Other (specify)					
Subtotal	57.34	80.64	55.68		
Total direct costs	359.43	447.42	335.28		
Iotal difect costs	557.45	111.12	555.20		
Overhead costs:					
Management and administration	9.60	18.40	8.95		
Land cost (typical rental value)	10,800				
Other (specify) Interest, taxes, cost					
of water, etc.	68.78	65.20	39.16		
TOTAL COSTS	427 01	521.02	202 20		
TOTAL COSTS	437.81	531.02	383.39		

Country MEXICO (continued)

Crop year _____

	Estimated cost of producing a hectare of cotton				
	In major producing zones				
Item	Lag				
	Juarez	Gravity irrigation	Pump irrigation		
Yield used (kilos per hectare)		1			
		US \$ per hectare			
On farm direct costs					
Preharvesting:					
Labor Power and equipment) 61.60	69.60	81.20		
Seed	11.60	9.80	9.80		
Fertilizer	59.20	45.67	53.53		
Herbicides					
Insecticides and fungicides Defoliants and other chemicals	72.40	84.80	84.80		
Defoliants and other chemicals Irrigation	11.20	10.00	96.00		
Custom or contract work			,		
Other (specify)					
Subtotal	216.00	219.87	325.33		
Harvesting:					
Labor	42.31	87.60	87.60		
Power and equipment	10.51	01.00	01.00		
Custom or contract work					
Other (specify)	12.80	11.20	11.20		
Subtotal	55,11	98.80	98.80		
Off farm direct costs					
Transportation to gin	4.00	14.80	14.80		
Ginning (including bagging and ties)	38.09	68.80	68.80		
Other (specify)					
Cultatel	12 00	02 (0	02 (0		
Subtotal Total direct costs	42.09 313.20	83.60 402.27	83.60 507.73		
Overhead costs:			1/ 22		
Management and administration Land cost (typical rental value)	15.56	16.00	16.00		
Other (specify) Interest, taxes cost					
of water, etc.	53.71	67.98	68.28		
TOTAL COSTS	382.47	486.25	592.01		

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Country MOROCCO

Crop year 1969/70

L'ottinueer eo	be or producer	ng a hectare of cotton
	In major p	roducing zones
National average	Average producer	Above average
1,250	1,500	2,000 - 2,500
	US \$ per	r hectare
	-	
	41.324	
	25.432	
	25.16	
	34.	
	43.88	
	200.046	
	4.77	
	100.47	
	2.50	
	50	
	52 50	
	 CALCORDER ALL 	
	353.010	
	20	(land rent)
	5	
	378.016	
	average	National average Average producer 1,250 1,500 US \$ per 30.25 41.324 25.432 25.16 34. 43.88 200.046 95.70 4.77 100.47 2.50 50 52.50 353.016

Country MOZAMBIQUE

Crop year ____ 1970

	Estimated co	Estimated cost of producing a hectare of cott			
Item	/	ln major producing zones r			
	National	Average	Above average		
	average	producer	producer		
Yield used (kilos per hectare)		400	1,500		
		US \$ per			
On farm direct costs					
Preharvesting:					
Labor (family)		16.33			
Power and equipment (mechanial work)			18.37		
Seed		. 68	. 68		
Fertilizer					
Herbicides					
Insecticides and fungicides			43.30		
Defoliants and other chemicals					
Irrigation					
Custom or contract work			18.64		
Other (specify)					
Subtotal		17.01	80.99		
Harvesting:					
Labor (family)		6.80			
Power and equipment					
Custom or contract work			25.51		
Other (specify) Bagging:family work_		.54			
contract work			2.18		
Subtotal		7.34	27.69		
Off farm direct costs					
Transportation to gin			12.14		
Ginning (including bagging and ties)		<u>a</u> /	32.98		
Other (specify)					
Cubtate 1					
Subtotal			45.12		
Fotal direct costs		24.35	153.80		
Overhead costs:					
Management and administration			20.41		
Land cost (typical rental value)					
Other (specify)					
TOTAL COSTS		24.25	174 21		
10111 00515		24.35	174.21		

 \underline{a} / These farmers sell their seed cotton in the rural markets, so that these costs do not apply to them.

Country NICARAGUA

Crop year _____ 1968/69

Estimated cost of producing a hectare of cotton			
	In major producing zones		
National average	Average producer	Above average producer	
2,301			
	US \$ per	hectare	
	1		
25.88			
6.09		1	
29.99			
101.32			
		C	
7.09			
1.79			
34.46			
240 78			
240.10			
10.20			
69.38			
2.24			
71.62			
312.40			
20.27			
40.53			
16.77			
401.99			
	National average 2, 301 34.16 25.88 6.09 29.99 101.32 7.09 1.79 34.46 240.78 69.38 2.24 71.62 312.40 20.27 40.53 16.77 12.02	In major producer Average producer 2,301 US \$ per 34.16 25.88 6.09 29.99 101.32 7.09 1.79 34.46 240.78 69.38 2.24 71.62 312.40 20.27 40.53 16.77 12.02	

Country NIGER

Crop year 1970/71

	Estimated cost of producing a hectare of coto				
Item		In major pr	In major producing zones		
	National	Average	Above average		
	average	producer	producer		
Yield used (kilos per hectare)	450 kgs	<u>500 kgs</u> US \$ per	1,500 kgs		
On farm direct costs					
Preharvesting:					
Labor	8.63	12.94	40.57		
Power and equipment					
Seed	0.97	1.07	3.23		
Fertilizer			16.18		
Herbicides			*		
Insecticides and fungicides			26.97		
Defoliants and other chemicals			, , , , , , , , , , , , , , , , , , ,		
Irrigation					
Custom or contract work					
Other (specify)					
	0.40		04.05		
Subtotal	9.60	14.01	86.95		
Harvesting:	0.40		1		
Labor	8.63	10.35	31.94		
Power and equipment					
Custom or contract work					
Other (specify)					
Subtotal	8.63	10.35	31.94		
Off farm direct costs					
Transportation to gin	5.05	5.61	16.84		
Ginning (including bagging and ties)	10.48	11.65	34.96		
Other (specify)					
Subtotal	15.53	17.26	51.80		
Total direct costs	33.76	41.62	170.69		
total direct costs	55.70	41.02	170.69		
Overhead costs:					
Management and administration					
Land cost (typical rental value)	18.00	18.00	18.00		
Other (specify)					
TOTAL COSTS	51.76	59.62	188.69		

Country	PAKISTAN
o o uniter j_	T TTTTTT

Crop year

Cost of producing one hectar e of cotton $* \frac{1}{2}$

Bullock Partially mechanized cultivation Item cultivation Yield 370 kgs Yield 555 kgs Yield 932 kgs US \$ On-farm direct costs Labor 41.51 43.80 67.46 20.76 46.70 Power and equipment 56.04 Indigenous power 2.91 - -- -Seeds 4.15 4.15 4.15 Fertilizer 13.49 13.49 13.49 Nil 46.70 Manure Nil Herbicides, insecticides fungicides and other chemicals 3.84 5.71 5.97 Irrigation (water rates) 8.72 17.64 17.64 Subtotal 95.38 131.49 211.45 Overhead costs Land rent 56.04 77.84 77.84 Land revenue 4.48 4.48 4.48 Other cesses 1.56 - -Subtotal 62.08 82.32 82.32 TOTAL . 157.46 213.81 293.77 Interest on running capital (at the rate of 8% for 6 6.29 8.55 11.77 months) 163.75 GRAND TOTAL . . 222.36 305.54

* Response to an earlier draft of the questionnaire.

1/ Cost of production is a controversial issue and subject to varied condition. It varies from area to area depending on climatic conditions, land fertility, inputs used, agronomic practices and its management. Moreover, data are not available with us. However, the figures recorded here are for Multan in West Pakistan. Transportation and ginning costs have not been included in the cost of production.

Country PAKISTAN

	Point		Pr	ice		
Item Unit	of	1966/		the other party of the local data in	1969/	1970/
	delivery 1/ to farmer		68	69	70	71
Major insecticides (Specify)			U	S \$		
major moccheraco (opeeny)						
1 Chlorinated hydrocarbons	25% cost farmer.					
2 plus Organo Phosphorous	for galax					
3						
Major fungicide (Specify)		Nil				
Major herbicide (Specify)		Nil				
Seed (cost per hectare)	-	3.11	3.11	3.63	3.63	4.15
Daily rate for unskilled						
Labor 2/		.63	.63	. 68	. 74	.79
Daily rate for skilled labor $\underline{2}/$						
	-	.84	.84	. 95	1.05	1.16
Major fertilizers (Specify analysis)	Sellers ex godown					
1 Ammonium Sulphate	-					
(21% Nitrogen) ² Urea (46% Nitrogen)	_					
3	_					
Selling price of land suitable for cotton in a major producing zone		1,038		1,557 r hecta		2,076
Annual rent of cotton land in major producing zone		51.89	64.86		77.84	77.8
				-		

Estimated local cost to producer of specified items of production *

1/ Indicate point of delivery to farmer, i.e. delivered to farm, ex-warehouse, etc.

 $\frac{\overline{2}}{2}$ Includes non-cash cost

* Response to an earlier draft of the questionnaire.

Country PARAGUAY

Crop year 1970

	Estimated cost of producing a hectare of cotto			
Item		in major producing zones		
	National	Average	Above average	
	average	producer	producer	
Yield used (kilos per hectare)	800			
		US \$ per	hectare	
On farm direct costs				
Preharvesting:	2			
Labor	23.84			
Power and equipment	12.20			
Seed	1.84			
Fertilizer				
Herbicides				
Insecticides and fungicides	16.92			
Defoliants and other chemicals				
Irrigation				
Custom or contract work				
Other (specify)		- T		
	51.00			
Subtotal	54.80			
Harvesting:	1			
Labor	16.92			
Power and equipment				
Custom or contract work	2.30			
Other (specify)				
Subtotal	19.22			
Off farm direct costs				
			14	
Transportation to gin	3.68			
Ginning (including bagging and ties)			100	
Other (specify)				
Subtotal	3.68		e	
Total direct costs	77.70			
Total allost conto	1.10			
Overhead costs:				
Management and administration				
Land cost (typical rental value)	2.30			
Other (specify) 10% over operating				
capital	7.40			
TOTAL COSTS	87.40			

Country_ SPAIN

Crop year ______1971/72

	Estimated cost of producing a hectare of cotto			
		In major producing zones *		
Item	National average	Average producer	Above average producer	
Yield used (kilos per hectare)	600	700	1,000	
		US \$ per hecta	are	
On farm direct costs		*:		
Preharvesting:				
Labor	74.00	85.00	88.00	
Power and equipment	36.00	40.00	50.00	
Seed	22.00	22.00	22.00	
Fertilizer	88.00	92.00	100.00	
Herbicides	1)	/41.00		
Insecticides and fungicides	34.00	38.00	42.00	
Defoliants and other chemicals	, 54.00	50.00	42.00	
	19.00	22.00	22.00	
Irrigation				
Custom or contract work Other (specify)	14.00	5.00	20.00	
Subtotal	287.00	304.00	344.00	
		504.00	544.00	
Harvesting:				
Labor	125.00	140.00	200.00	
Power and equipment				
Custom or contract work				
Other (specify)				
Subtotal	125.00	140.00	200.00	
Off farm direct costs				
Transportation to gin	5.50	6.00	10.00	
Ginning (including bagging and ties)	44.00	51.00	74.00	
Other (specify)	Contraction of Contraction			
Subtotal	49.50	57.00	84.00	
Total direct costs	461.50	501.00	628.00	
	401.50	501.00	020.00	
Overhead costs:				
Management and administration	45.00	48.00	60.00	
Land cost (typical rental value)	170.00	200.00	230.00	
Other (specify)				
TOTAL COSTS	676.50	749.00	918.00	

* Andalucia

Country SYRIA

Crop year _ 1969/70

	Estimated cost of producing a hectare of cotton			
Item		In major producing zones		
	National average	Average producer	Above average producer	
Yield used (kilos pe- hectare)	2,000		3,000	
		US \$ per	hectare	
On farm direct costs				
Preharvesting:				
Labor	131.41		172.77	
Power and equipment	17.80		20.94	
Seed	9.16		9.16	
Fertilizer	22.25		41.88	
Herbicides			41.00	
Insecticides and fungicides	7.85		7.85	
Defoliants and other chemicals	1.05		1.05	
Irrigation	44.50		52.35	
Custom or contract work	44.50		52.35	
Other (specify) <u>Capital interest</u>	15 80			
and others.	15.70		18.32	
Subtotal	248.67		323.27	
Harvesting:				
Labor	31.41		47.11	
Power and equipment	and so a fait			
Custom or contract work				
Other (specify) Sacks	15.70		26.17	
		1	20.11	
Subtotal	47.11		73.28	
Off farm direct costs				
Transportation to gin	7.85		11.78	
Ginning (including bagging and ties)	31.02		47.35	
Other (specify)	51.02		41.55	
Subtotal	38.87		50.12	
Fotal direct costs	334.65		59.13	
otal direct costs	334.05		455.68	
Overhead costs:				
Management and administration				
Land cost (typical rental value) -	2			
20% of the cotton value	78.53		117.80	
Other (specify)	and the set			
TOTAL COSTS	413.18		573.48	

Country THAILAND

Crop year 1969/70

Estimated cost of producing a hectare of cotton In major producing zones Item Above average National Average average producer producer 1,850 Yield used (kilos per hectare) US \$ per hectare On farm direct costs Preharvesting: Labor 84.00 - -- -Power and equipment 1.25 - ---Seed --- -Fertilizer --- -- -Herbicides 46.87 - -- -Insecticides and fungicides - -- -Defoliants and other chemicals - ----- -Irrigation - -- -Custom or contract work -- -- -Other (specify) - -- -- -Subtotal 132.12 Harvesting: Labor 25.00 ---- -Power and equipment --- -- -Custom or contract work - -- -Other (specify) - -- -- -Subtotal 25.00 Off farm direct costs Transportation to gin Ginning (including bagging and ties) Paid by ginners Other (specify) Subtotal Total direct costs 157.12 Overhead costs: Management and administration Land cost (typical rental value) Farmer dwned Other (specify) Interest paid to middlemen for cash loans 22.50 TOTAL COSTS . . . 179.62

TO SAME STORE AND A DESCRIPTION OF A DES

Country UNITED STATES

Crop year 1970 1/

	Estimated cost of producing a hectare of coto		
Item		South	east
	National average	Average producer	Above average producer 2/
Yield used (kilos per hectare) - lint	494	497	769
		US \$ per	In the second of some starts a stress of an openation
On farm direct costs			
Preharvesting:			
Labor	48.51	54.24	48.06
Power and equipment	42.75	75.02	61.01
Seed	8.95	8.70	8.08
Fertilizer	28.34	53.27	70.45
Herbicides	9.66	15.37	15.69
Insecticides and fungicides	15.25	27.77	47.05
Defoliants and other chemicals	3.04	2.20	3.21
Irrigation	26.54	.17	0
Custom or contract work	8.03	7.29	8.28
Other (specify)			
Subtotal	191.07	244.03	261.83
Harvesting:	171.01	244.05	201.03
Labor	16.16	24.96	22.09
Power and equipment	46.48	32.77	26.66
Custom or contract work	13.15	16.53	17.64
Other (specify)	15.15	10.55	11.04
Subtotal	75.79	74.26	66.39
Off farm direct costs			
Transportation to gir.	5.12	4.74	7.0/
Ginning (including bagging and ties)	51.22	40.08	7.96
Other (specify) Interest, operating	51.22	40.00	53.97
capital	7.66	10.06	7.76
Subtotal	64.00	54.88	69.69
Total direct costs	330.86	373.17	397.91
Overhead costs:			
Management and administration	12.33	9.19	10.75
Land cost (typical rental value)	60.93	47.17	56.14
Other (specify) <u>General farm over-</u> head 3/	36.20	35.98	39.56
			59.50
TOTAL COSTS	440.32	465.51	504.36

UNITED STATES

Country (continued)

Cost of producing one hectare of cotton

Crop year _____ 1970 1/

	Estimated cost of producing a hectare of cotto		
Item	Delta		
	National average	Average producer	Above average producer 2/
Yield used (kilos per hectare) - lint	494	639	1,019
	a service of the second se	US \$ per	hectare
On farm direct costs			
Preharvesting:			
Labor	48.51	50.16	38.00
Power and equipment	42.75	51.42	48.60
Seed	8.95	9.74	8.06
Fertilizer	28.34	36.99	. 28.42
Herbicides	9.66	17.25	17.87
Insecticides and fungicides	15.25	21.65	24.46
Defoliants and other chemicals	3.04	3.88	5.12
Irrigation	26.54	2.59	3.98
Custom or contract work	8.03	9.24	14.53
Other (specify)			
Subtotal	191.07	202.92	189.04
Harvesting:			and the second sec
Labor	16.16	19.52	14.78
Power and equipment	46.48	60.14	56.83
Custom or contract work	13.15	10.85	12.48
Other (specify)			
Subtotal	75.79	90.51	84.09
Off farm direct costs			
		<i>C</i> • •	
Transportation to gin	5.12	6.33	10.53
Ginning (including bagging and ties)	51.22	55.55	76.60
Other (specify) Interest, operating capital	7.66	9.46	6.38
Subtotal	64.00	71.34	93.51
fotal direct costs	330.86	364.77	366.64
Duranhand spectra		1.4.40	-
Overhead costs:	12.22	20 72	17 00
Management and administration	12.33	20.73	17.32
Land cost (typical rental value) Other (specify) General farm	60.93	66.69	86.98
overhead 3/	36.20	39.19	41.51
TOTAL COSTS	440.32	491.38	512.45

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UNITED STATES Country (continued)

Cost of producing one hectare of cotton

Crop year __ .1970 1/

	Estimated cost of producing a hectare of cotto		
Item		Southwest	
	National	Average	Above average
	average	producer	producer 2/
Yield used (kilos per hectare) -lint	494	359	
	US \$ per hectare		
On farm direct costs			
Preharvesting:			
Labor	48.51	36.22	30.39
Power and equipment	42.75	25.77	25.45
Seed	8.95	8.55	8.50
Fertilizer	28.34	10.87	16.56
Herbicides	9.66	3.34	4.45
Insecticides and fungicides	15.25	5.36	. 82
Defoliants and other chemicals	3.04	1.46	. 62
Irrigation	26.54	34.99	46.01
Custom or contract work	8.03	3.29	1.63
Other (specify)			
Subtotal	191.07	129.85	134.43
Harvesting:			101110
Labor	16.16	12.06	10.13
Power and equipment	46.48	31.48	31.13
Custom or contract work	13.15	9.39	6.08
Other (specify)			
Subtotal	75.79	52.93	17.04
Bubtotal	15.19	52.95	47.34
Off farm direct costs			
Transportation to gin	5.12	3.58	6.84
Ginning (including bagging and ties)	51.22	43.00	63.01
Other (specify) Interest, operating		1000-000725	1000 0000 0000 0000
capital	7.66	4.65	3.41
Subtotal	64.00	51.23	73.26
Total direct costs	330.86	234.01	255.03
Overhead costs:	-		
Management and administration	12.33	5.96	3.90
Land cost (typical rental value)	60.93	43.51	61.82
Other (specify) General farm over-			
head 3/	36.20	23.99	22.39
TOTAL COSTS	110 22	207.47	
IUIAL COSIS	440.32	307.47	343.14

 $\frac{1}{2}$ Based on an update of 1966 survey data. $\frac{2}{2}$ Represents roughly the top 20 percent of producers.

UNITED STATES Country (continued)

Cost of producing one hectare of cotton

Crop year _ 1970 1/

	Estimated co	st of producin	g a hectare of cotion		
Item			West		
	National	Average	Above average		
	average	producer	producer 2/		
Yield used (kilos per hectare) - lint	494	933	1,267		
Tield doed (hitop per neonato)		US \$ per			
On farm direct costs					
Preharvesting:					
Labor	48.51	67.61	59.45		
Power and equipment	42.75	60.71	55.47		
Seed	8.95	8.85	7.04		
Fertilizer	28.34	43.74	46.31		
Herbicides	9.66	8.90			
Insecticides and fungicides	15.25	22.41	7.17		
Defoliants and other chemicals	3.04	8.15	7.78		
	26.54		NO.00275		
Irrigation Custom or contract work		85.20 26.49	83.30		
Other (specify)	8.03	20.49	21.45		
Subtotal	191.07	332.06	312.11		
Harvesting:					
Labor	16.16	24.88	21.89		
Power and equipment	46.48	75.39	68.89		
Custom or contract work	13.15	27.23	15.54		
Other (specify)					
Subtotal	75.79	127.50	106.32		
Off farm direct costs		-			
The second state of the se	5.10				
Transportation to gin	5.12	9.22	13.10		
Ginning (including bagging and ties)	51.22	87.35	105.12		
Other (specify) <u>Interest, operating</u> capital	7.66	12.01	8.60		
	1.5.5.5		0.00		
Subtotal	64.00	108.58	126.82		
Fotal direct costs	330.86	568.14	545.25		
Overhead costs:					
Management and administration	12.33	26.69	21.50		
Land cost (typical rental value)	60.93	133.04	158.29		
Other (specify) General farm over-					
head 3/	36.20	77.10	61.60		
TOTAL COSTS	440.32	804.97	786.64		

3/ Includes farm real estate and personal property taxes, insurance, repairs on buildings and fences and miscellaneous items such as telephone, electricity, maintenance and drainage ditches and terraces, and use of personal auto for farm business.

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Country UPPER VOLTA

Crop year _____1970/71

	Estimated cost of producing a hectare of cotton				
128-267-251	National average	In major producing zones			
Item		O. R. D. Volta Noire	Pointe		
Yield used (kilos per hectare)	291 kgs	511 kgs US \$ per hectar	1,000 kg	8	
On farm direct costs					
Preharvesting:					
Labor	10.00	16.30	19.00		
Power and equipment	. 92	.27	10.80		
Seed	-	-	-		
Fertilizer	2.31	3.85	14.50		
Herbicides	-		-		
Insecticides and fungicides	2.54	4.61	16.70		
Defoliants and other chemicals					
Irrigation					
Custom or contract work					
Other (specify)					
Subtotal	15.77	25.03	61.00		
Harvesting:		10 00 00 00 00 00 00 00 00 00 00 00 00 0			
Labor	2.72	4.71	9.06		
Power and equipment		1.1.	7.00		
Custom or contract work					
Other (specify)					
Subtotal	2.72	4.91	9.06		
Off farm direct costs					
Transportation to gin	6.60	11.60	22.70		
Ginning (including bagging and ties)	6.20	10.90	21.40		
Other (specify) Commercial charges	3.30	5.80	11.30		
Subtotal	16.10	28.30	55.40		
Total direct costs	34.59	58.04	125.46		
Overhead costs:					
Management and administration	5.60	9.80	19.10		
Land cost (typical rental value)					
Other (specify)					
TOTAL COSTS	40.19	67.84	144.56		

Country___VENEZUELA

Crop year ______1971/72

	Estimated cost of producing a hectare of cotton			
	In major producing zones			
Item	National average	Average producer	Above average producer	
Yield used (kilos per hectare)	1,050		1,500	
On farmer direction and		US \$ per hect	are	
On farm direct costs				
Preharvesting:	- 52 - 23			
Labor	36.36		36.36	
Power and equipment	54.54		54.54	
Seed	5.68		5.68	
Fertilizer	44.32		44.32	
Herbicides	18.18		18.18	
Insecticides and fungiciues	34.09		34.09	
Defoliants and other chemicals	-		-	
Irrigation		1		
Custom or contract work				
Other (specify) Stalk destruction	9.09		9.09	
Subtotal Harvesting: Labor Power and equipment Custom or contract work Other (specify) Subtotal Off farm direct costs	202.26 - 90.68 - 90.68		202.26 - 129.55 - 129.55	
Transportation to gin	10.74		15.34	
Ginning (including bagging and ties)	(22.73)		(22.73)	
Other (specify)	-		-	
Subtotal	10.74		15.34	
Fotal direct costs	303.68		347.15	
Overhead costs:				
Management and administration	22.73		30.68	
Land cost (typical rental value)	11.36		18.18	
Other (specify) Personnel transportatio			14.32	
and a second sec	200 COLOR 200 COLOR 200		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Interest	9.09		9.09	
5% miscellaneous	17.91		21.08	
TOTAL COSTS	376.13	2	440.50	

YEMEN, People's Country Democratic Republic

ALCO NO.

Crop year 1969/70

	Estimated cost of producing a hectare of cot:		
Item	in major producing zones 1/		
	National average	Average producer	Above average producer
Yield used (kilos per hectare)	882	1,047.5	1,266.8
On farm direct costs		US \$ per	hectare
Preharvesting:			16.055
Power and equipment Seed			
Fertilizer Herbicides Insecticides and fungicides			
Defoliants and other chemicals			
Irrigation Custom or contract work			4.446 30.825
Other (specify)			
Subtotal			51.326
Harvesting: Labor			39.124
Power and equipment Custom or contract work			
Other (specify)			
Subtotal			39.124
Off farm direct costs			
Transportation to gin Ginning (including bagging and ties) Other (specify)			6.817
Subtotal			6.817
Total direct costs			97.267
Overhead costs: Management and administration			
Land cost (typical rental value)			54.537
Other (specify)			23.860
TOTAL COSTS			175.664

Note: Figures quoted represent the Wadi Tuban area (which accounts for 22-30% of the total production of the country), where an agro-economic structure study was conducted for the 1969/70 season. No zones in the normal sense of the word are in existence but minor differences apart from yield and source of irrigation are observed between the different producing areas. However, indications of appreciable differences between spate and underground water irrigations occur frequently. N. B. Figures quoted represent spate irrigated cotton only, the study on underground irrigation is still under analysis.