DISBURSEMENT SCHEDULE (FINANCIAL) DAM AND POWER STATION Table J-09

	6	1	1		ý	σï	Q	2	5	Q.	ŝ	3)		х 1			• 1	• . •		е.,		. '				- - -				:
	r (1989) L.C		÷	•	8,825		850	442	101	1,560	11,793	(11,203)		•		•	•			•		• • •	з. ¹			-				
	5th Year F.C	1	I	I	22,000	20	1,779	5,564	143	3,840	33, 396	(41,745)		·								•				•				
	(1988) L.C	675		468	2,660	40	68	3	515	i	4,376	(4,157)		-	1			•	•				• • •			• .				
	4th Year F.C	1 250			8,280		142	1	685	1		(15,446) (• • • •	
· ·	(1987) L.C	766	, 350	702	20	i I	Ι.	147	172	1	3,193	(3, 033)				i de la compañía de		•.			• •					 - -	- 			
· .	1 1 1	άσ	.T.		429	150 S	Ì	854	228	1		-		103)		TPACT		, 239	4,320	630	, 610	758	00, 20 00 00	980	,200	105,510	123,650)			
د. بالله المال	<u>3rd Year</u> F.C	10	1,890	5	ধ	Ħ		80 -	Ň		8,279	(10, 3		: Lp.103	1	2	. ·	ਧ	44	4	68	(Ϋ́, Ϋ́,	₹	1	105	(123			
	(1986) L.C	I	450	I	I	I	1	1	1	1	450	(428)		(unit:		L.C		1,391	T,800	1,170	18,241	22	т, 133 1733	850	2,080	27,459	(26,086)			ч
	2nd Year F.C	I	630	I	1	i	J	1	ł	1	630	(288)			Total	F.C		2,848	÷. –	3, 720		700	212	130	5,120	78,051 2			0 +	3
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	(1985) L.C	1	1	١	1	ł	1	3	1		- 1				(0661)	L C		1	١		6,700	יים מיו	5T2	r U T	520	7,647	(7,265)		i)uuvo	150
	lst Year F.C	1	I	1	1	1	1	I	1	ł,	I	•			6th year	F.C		1	1	1	19,660	02	108 108 100	74	1,280	23, 389	(29,236)		-a macant	1110012 0
·						et			Transmission Line and Sub-station													let		restation Line and Sub-station			•••		ve sossedtnoven	אבוואוער ביוחואייר האבתו לערביוחובאבא עד איינגער האוואייר האוואייר האוואייר
÷			, : ·	Norks	•	Intake, Penstock & Outlet	Irace	nent	e and S	ន								ល		Works	•	Intake, Penstock & Outlet	Lrace	e and S	6				-t	נראטקדי
	Items	Prenaratory Works		River Diversion Works	illway	nstock	Powerhouse & Tailrace	Generating Equipment	on Line	Highway Relocation	Total			· ·		TCENS		Preparatory Works	יט	River Diversion Works	YEWILI	nstock	& Tailrace	Transmission Line an	lighway Relocation	Total			4	
	H	104678	Access Road	r Dive	Dam and Spillway	ke, Pe	esnoura	rating	issina	way Re	E	• .		•		-		arator	Access Road	r Dive	Dam and Spillway	ike, Pe	Powerhouse	issins:	way Re	Н			ů Å	ה 1 4
		1	2. Acce		4. Dam	. Inta	S. Powe	7. Gene	. Tran	. High		-						Prep	2. Acce	3. Rive	E Dem	5. Inte	D. POW		High.					אבוומד איי
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												•																		

(1991) L.C	110 393 333 333 333 333 333 333 333 333 33	· · · · ·	
7th Year F.C	221 221 1,438 355 419 262 648 3,555 (4,440)		
(<u>1990)</u> L.C	1,203 1,203 253 376 300 690 3,286 (3,121)	1.03) 1.C	26,318 2,716 3,716 3,716 7,560 1,052 1,052 1,052 1,052 3,416 3,416 26,318 (25,002)
6th Year F.C	4,408 4,408 1,095 1,280 1,984 10,925 (13,655)	(Unit: I Total F.C	1,937 13,974 15,486 27,565 2,714 5,154 7,570 10,175 10,175 88,872 (111,090)
r (1989) L.C	704 1,007 2311 2311 2311 251 577 (4,005)	ar (1994) L.C	1,275 1,275 1,275 179 179 2,471 (2,347)
5th Year F.C	2,651 3,668 3,688 3,688 3,688 9,68 1,071 1,660 1,660 14,813 14,813 (18,518)	10th Year F.C	1,273 1,273 1,129 1,129 958 8,733 (10,916)
r (1988) L.C	570 875 2,014 477 628 502 1,155 8,462 (8,039)	r (1993) L.C	1,275 331 331 332 329 3,399 3,399 3,229)
4th Year F.C	682 3,220 1,322 1,375 1,375 1,375 1,375 3,375 3,375 3,375 3,375 3,320 3,320 (35,380)	9th Year F.C	3,493 1,272 4,609 1,120 958 12,227 (15,284)
c (1987) L.C	678 277 355 393 393 83 92 123 92 225 225 (2,208	r (1992) L.C	109 929 929 1,038 1,038 (986)
3rd Year F.C	L, 044 L, 044 L,409 L,409 213 357 418 418 647 6,602 (8,252)	8th Year F.C	3, 492 3, 492
Items	 Preparatory Works Intake Weir Intake Weir Main & Headrace Canal System Branch Canal System Secondary Canal System Lrainage Canal System Drainage Canal System Clearing and Reclamation Clearing and Reclamation 	Items	 Preparatory Works Intake Weir Main & Headrace Canal System Branch Canal System Secondary Canal System Drainage Canal System Farm Road System Cn-farm Construction Clearing and Reclamation

DISBURSEMENT SCHEDULE (FINANCIAL) IRRIGATION SYSTEM (20,600 HA)

Table J-10(1)

Remarks: Figures between parentheses are present economic cost.

4,213 (4,005) (1989) 1,007 211 5th Year 14,815 (18,518) 546 916 673 2,651 3,610 3,688 1,660 1,071 8,462 (8,039) 1,818 2,014 4th Year (1988) 875 628 502 1,155 477 570 423 28,303 (35,380) 3,292 7,219 1,092 1,092 1,833 2,142 3,320 682 IRRIGATION SYSTEM (16,000 HA) 2,324 (2,208) 5,009 1,052 83 97 97 97 226 Lp:103) , 858 (1987) 279 355 393 С Ц i Total Year 6,602 (8,253) 12,941 18,348 2,714 4,559 418 263 647 (Unit: 1,044 1,409 1,438 213 357 U FH 1,495 8 <u>3rd</u> (19861) 393 1661) th Year Year 1,439 2nd (1985)1,202 1,202 252 1 F 1 0661) 6th Year Year 4,407 ł т ł ł 1 1 C L lst On-farm Construction
 Clearing and Reclamation El Papalon Intake Weir Main Canal System Branch Canal System El Papalon Intake Weir Main Canal System Secondary Canal System Drainage Canal System Branch Canal System Preparatory Works Preparatory Works 7. Farm Road System Total Items Items

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016

704

DISBURSEMENT SCHEDULE (FINANCIAL)

Table J-10(2)

238 315 251 577

1,185 1,563 1,248 2,873

5,328 3,350 8,259

98 69

262 648

123 225 1,015

417 211

285 376 300 690

1,095 1,280 805 1,984

652

Secondary Canal System

Drainage Canal System

<u>ہ</u>

Farm Road System

358

(79,977) (18,336)

(696)

3,335 (4,171)

(121, E)

3, 283

10,926 (13, 655)

8. On-farm Wishing and Reclamation 9. Clearing and Reclamation

Total

63,981 19,297

Remarks: Figures between parentheses are present economic cost.

44

Table J-10(3) DISBURSEMENT SCHEDULE (FINANCIAL) IRRIGATION SYSTEM (12,400 HA)

(1989) L.C	1,220 104 188 249 284 284 280	4,079 (3,875)	
5th Year F.C	2,651 3,610 4,454 957 975 805	14, 619 (18, 275)	
r (1988) L.C	2,439 570 2,439 498 567 567 567 567 567	8,192 (7,781)	
4th Year F.C	682 3,293 3,293 1,220 1,914 1,914 1,914 1,914 1,914 1,914 1,914 1,914 1,914 1,914 1,916 1,916	27,912 (34,890)	
<u>3rd Year (1987)</u> F.C. L.C	678 678 278 476 73 97 97 111 95 109	2,272 (2,159)	(Unit: Lp.103) Total F.C L.C F.C L.C 1,495 1,248 6,988 1,857 12,943 3,262 15,968 4,373 1,841 674 3,432 1,017 2,345 1,017 2,441 1,017 2,4
<u>3rd Yea</u> F.C	255 255 255 255 255 255 255 255 255 255	6,525 (8,156)	(Unit: F.C F.C 1,495 6,988 15,968 1,841 3,4432 3,4432 3,4432 3,4432 2,888 51,395 (64,244) (
r (1986) L.C	andron († 1997) 1990 - John Karl, Bort († 1997) 1997 - John Statistica, filosofie († 1997) 1997 - John Statist	1 	и (1001) 1 и и и и и и и и и и и и и и и и и и и
2nd Year F.C		1	7th Year
(1985) L.C	in the second seco	- 1	(1990) 1.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
<u>lst Year</u> F.C.			6tth Year F.C 704 870 101 108 190 128 128 128 128 128 (2,923)
S ²	Preparatory Works El Papalon Intake Weir Main Canal System Branch Canal System Secondary Canal System Drainage Canal System Farm Road System On-farm Construction Clearing and Reclamation		Items Freparatory Works El Papalon Intake Weir Main Canal System Branch Canal System Branche Canal System Drainage Canal System Drainage Canal System Con-farm Rod System Con-farm Construction Clearing and Reclamation Total
Iters	 Preparatory Works El Papalon Intake W Main Canal System Branch Canal System Secondary Canal System Farm Road System On-farm Construction Clearing and Peclam 	Total	Items I. Preparatory Works 2. El Papalon Intake 3. Main Canal System 4. Branch Canal System 5. Secondary Canal System 6. Drainage Canal System 8. On-farm Construct 9. Clearing and Recli

Remarks: Figures between parentheses are present economic cost.

n, Power and Irrigation Itens Dam Works	16,000 ha 1st (1985) F.C I.C	Table J-11(2) <u>985) 2nd (1986)</u> <u>1.C F.C L.C</u> - 788 428		DISBU IRRIG <u>1RRIG</u> 7,749		이 아이 아이 것 같은 아이 것 같은 아이	DUILE (19) (19) (19)		ECCNOMIC) 60 HA) 5th (1989) 360 9,845		6, <u>1</u> 1	3th F.C	(<u>166</u> 1)	100 F.C		<u>Total</u> 105,083
 Power Station Irrigation Systems Sub-total Iand Acquisition Engineering and Administ. Physical Contingency Grand Total 	2,600 8,253 788 428 18,602 8,253 6,050 1,740 3,050 1,160 1,075 605 174 384 159 1,968 6,655 1,917 4,222 1,747 21,645	788 3, 050 384 			304 5,241 5,241 5,241 800 800 641 7,052 5	1,000 560 35,380 8,039 50,826 12,196 - 370 3,375 1,540 5,420 1,411 59,621 15,517		9,385 18,518 60,263 3,125 6,339 69,727	1,359 4,005 15,209 1,080 1,647 18,116	2,950 13,655 42,891 2,125 4,502 49,518	409 3,121 10,385 680 1,107 1,107 12,172	4,171 4,171 700 700 787 25,358	963 963 1,719	15,935 79,977 177,541 19,500 19,705 19,705 216,746	I5,935 2,632 79,977 18,336 77,541 44,422 920 19,500 7,600 19,705 5,295 I6,746 58,237	18,567 98,313 920 920 27,100 25,000 25,000 274,983
Middle Reach 3,360 ha Items	<u>1st (1985)</u> F.C. L.C	2nd (1986) F.C L.C	1 <u>9</u> 86) L.C	<u>3rd (1</u>	<u>1987)</u> L.C	4th (1 F.C	1988) L.C	5th F-C	(1989) L.C	E F F C F	(1990) L.C	7th (F.C	<u>(1661)</u>	((Total	(unit: L.C	Ip.103) Total
 Dam Works Power Station Irrigation Systems 	111		1 1 1 112	1 1 1		- 1,325	3 I I 36 3	2,400	00 1 1 00 00 01	2,400	1 1 35 8		11111 1	- 6,125	800'T	- 7,133
Sub-total 4. Land Acquisition 5. Engineering and Administ. 6. Physical Continuency			,)))] ; ; ;	1,325 1,325 133	292 - 29	2,400 - - 240	358 36 36	2,400	358			6,125 613 613	1,008 101	7,133 - 714

J - 47

.

	Ip.103) Total	105,083 18,567 <u>98,313</u> 221,963	920 27,100 25,000	274,983	Total	105,083 18,567 78,685	202, 335 750 24 450	22,754	687 ¹ NC7
	(Unit: Total C L.C	629 23,454 935 2,632 <u>977 18,336</u> 541 44,422	the second second provide second	216, 746 58, 237	(Unit: Total .C L.C	81,629 23,454 15,935 2,632 64,244 14,441	161,808 40,527 - 750 17 900 6 550	. 요구 문	0T9 7C 6/0
	(1991) L.C F.	- 81,629 - 15,935 <u>963 79,977</u> 963 177,541	600 19,500 156 19,705	1,719 216,7	<u>1991)</u> L.C F.	- 81,629 - 15,935 - 64,244	- 161,808 17,900	· · · · · · ·	5/0'/AT -
	7th F.C	5 99 21 4,171 55 4,171	 680 700 107 487	5,358	7th (855 - 409 - 626 -	890 1		
	6th (1990) F.C L.C	26,236 6,855 2,950 409 <u>13,655 3,121</u> 42,891 10,385	2,125 680 4,502 1,107	49, 518 12, 172		26,286 6,855 2,950 409 2,293 626	32,159 7,890 		3/, 38, 9, 31/
(ECONOMIC)	(<u>1989)</u>	9,845 2 1,359 4,005 1 15,209 4	180 1,080 1,647	18,116	(1989) L.C	9,845 2 1,359 3,875	15,079 3 150 150	1,616	C///1
SCHEDULE (F	88) 5th L.C F.C	3,597 32,360 560 9,385 8,039 18,518 12,196 60,263	370 - 1,540 3,125 1,411 6,339	15,517 69,727		3,597 32,360 560 9,385 7,781 18,275	11,938 60,020 300 - 1 340 2 255		14, 936 69, 130
ſ	4th (1988) F.C L.C	2,729 14,446 3, 304 1,000 2,208 35,380 8, 5,241 50,826 12,	- 3,375 l, 5,420 l,	59, 621 15,	르	14,446 3, 1,000 34,890 7,	50,336 11, - 3 075 1		4T 2C/ 8C
DISBURSEMENT	d (1987) C L.C	7,749 2,729 2,600 304 8,253 2,208 8,602 5,241	- 370 .075 800 .968 641	1,645 7,052		7,749 2,729 2,600 304 8,156 2,159	8,505 5,192 - 300 1 075 800	a sha ya 🖡 🕴	178 ° 6, 921
Table J-11(3)	(1986) 3rd L.C F.C	428 7,7 - 2,6 - 8,2 428 18,6	H M	1,747 21,6		428 7, - - 2, 6 - 8, 1		· · · · · · · · · · · · · · · · · · ·	6,655 1,914 4,222 1,747 21,538
Table	2nd F-C	788	6,050 1,740 3,050 1,160 605 174 384 159	6,655 1,914 4,222 1,747 21 00 ha		і – 788 — – 788	788 428 	174 384	777 4, 277
	16,000 ha 1st (1985) F.C L.C		- 6,050 1, 605	6,655 1, 12.400 ha	F.C I	1 I I 1 I I	1 1 USO V	605 174	6,655 1,
	- <u> </u> -		Ađminist. (ency	dation 12		NA NA	1 Wiminict	gency	
	Power and Irrigation	Dam Works Power Station Irrigation Systems Sub-total	Land Acquisition Engineering and Administ. Physical Contingency	Grand Total Power and Irrigation		Dam Works Power Station Irrigation Systems	Sub-total Land Acquisition	Physical Contingency	Grand Total
	Dam, Powe	 Dam Works Power Sta Power Sta Irrigatio Sub- 	4. Land 7 5. Engine 6. Physic	Dam. Powe		 Dam Works Power Stat Irrigation 	ہ Land		
				J - 48	3			· · · · · · · · · · · · · · · · · · ·	ب به مر

Table J-12 ECONOMIC FARM-GATE PRICE ESTIMATE

		Sugar/ Sugar	Cott	on	Maize	Sor-	Rice/	Beef	Urea
		Cane	Lint	Seed		ghum	Paddy	Deer	
Projected 1995 World Market Price	$(US$/ton)^{/1}$	365	2,060		139	134	410	2,550	270
Adjustment for Quality Differentials	(8)	100	100	-	1.00	100	85	90	100
Projected Price Adjusted for Quality	(US\$/ton)	365	2,060	-	139	134	349	2,295	270
International Shipping and Handling	$(US$/ton)^{\frac{2}{2}}$		-95	•	20	20	20	-120	60
FOB/CIF Price at San Lorenzo or	(US\$/ton)	365	1,965		159	1.54	369	2,175	330
Puerto Cortes	$(Lps./ton)^{/3}$	913	4,910	440/5	398	385	923	5,440	825
Local Port Charges	(Lps./ton)	-20	20	20	20	20	20	-20	20
Transport and Handling Cost (Choluteca or Mill-gate - Port)	(Lps./ton)	~130	-40	-40	80	80	80	-80	80
Ex-mill Value/Market Value	(Los./ton)	763	4,850	380	498	485	1,023	5,340	925
Processing Rate	(%)	8	· 40	55	-		65	34.5	-
Processing Cost	(Lps./ton)	-200	-3	20	• •••	-	-110	-600	-
By-products Sale		5	-	-	· -	· _	65	~	-
Mill-gate Value	(Lps./ton)	50/4	1,8	130/6	[']	-	620	1,630-	7
Local Transportation Cost	(Lps./ton)	-3		-10	-7	-7	-7	-	-7
Farm-gate Price	(Lps./ton)	47	1,8	120	490	480	613	1,630	918

Source: /1: IBRD price forecasts dated Dec. 1983.

These forecasts are expressed in 1984 constant prices.

Note: Pricing basis:

Sugar cane:	FOB and stowed at Greater Caribbean Ports
	CIF N. Europes, Mexican Middling 1-3/32"
Maize :	FOB Gulf Ports, US No.2 yellow
	FOB Gulf Ports, US No.2 Milo yellow
	FOB Bangkok, Thai, milled 5% broken
Beef :	FOB, port of entry, US, imported frozen boneless
	FOB Europe, bagged
•	
12. Honduma	is a not exporter of ever cotton and beef net in

/2: Honduras is a net exporter of sugar, cotton and beef, net importer of food grain and fertilizer.

/3: Border prices are converted using shadow exchange rate of US\$1.0 = Lps. 2.5.

/4: Ex-mill value - Processing cost x Processing rate + By-product = Lps. 50.00.

/5: In the ratio of current export price (1983/84) of lint (Lps. 3,425/ton): seed (Lps. 307/ton) is applied (307/3425=0.09).

<u>/6</u>: Ex-mill value of lint x Processing rate + Ex-mill value of seed x Processing rate - Processing cost = Lps. 1,830.00.

/7:

(Market value - Processing cost) x Processing rate = Lps. 1,630.00 (live weight)

			(Unit: Lps.)
Products	Unit	Economic	Financial $\frac{\sqrt{3}}{\sqrt{3}}$
Sugar cane	ton	47/1	28
Seed cotton	ton	1,820/1	1,197
Maize	ton	490 <u>⁄1</u>	355
Sorghum	ton	480 <u>/1</u>	324
Beans	ton	1,400/2	1,082
Sesame	ton	1,340/2	1,028
Paddy	ton	613 <u>/1</u>	555
Melon	ton	870/2	668
Water melon	ton	272 <u>/2</u>	209
Vegetables (tomatos)	ton	179/2	138
Milk	k/	480/2	370
Cattle (liveweight)	ton	1,630 <u>⁄1</u>	1,100

Table J-13 FARM-GATE PRICE OF FARM PRODUCT

Note: /1: These economic prices are estimated in Table J-12.

/2:	These economic prices are derived by applying
	the long-term average ratio between the financial
	prices of seed cotton, maize and paddy, and the
	projected these economic prices.

Seed cotton:	1,820/1,197	= 1.5
Maize :	490/355	= 1.4
Paddy :	734/793	= 1.1
-	Average	= 1.3
and the state of the second second	이 후 사람은 일부가 보니 가지 않는	

/3:

These financial prices are estimated in Table E-17.

Table J-14

PRICE OF FARM INPUT

			(Unit: Lps.
Inputs	Unit	Economic	Financia
Seeds/Seedlings/6			
Sugar cane	ton	32.50	25.00
Cotton seed	kg	1.14	0.88
Maize	kg	1.43	1.10
Sorghum	kg	2.21	1.70
Beans	kg	2.57	1.98
Sesame	kg	4.29	3.30
Paddy	kg	1.72	1.32
Melon	kg	63.05	48.50
Water melon	kg	50.05	38.50
Vegetables <u>/1</u>	kg	98.80	76.00
Grasses	kg	3.58	2.75
Fertilizers <mark>/7</mark>			
Urea	kg	0.92	0.65
12-24-12	kg	0.94	0.67
15–15–15	kg	0.95	0.68
Insecticides/2,/7	kg	49.00	35.00
Fungicides <u>/3,/7</u>	kg	47.66	34.04
$erbicides \frac{4}{7}$	kg	21.18	15.13
Rodenticides /5, /7	kg	13.16	9.40
Farm machinery <u>/8</u>	4		
Subsciling	ha	90.00	75.00
Plowing	ha	64.00	53.00
Harrowing	ha	36.00	30.00
Ridging	ha	48.00	40.00
Seeding	ha	32.00	27.00
Cultivating	ha	32.00	27,00
Multing	ha	32.00	27.00
Fertilizer app.	ha	26,00	22.00
Chemical app.	ha	31.00	26.00
Ratooning	ha	48.00	40.00

(to be continued)

Table 0-14				
Inputs		Unit	Economic	Financial
Harvesting	(combine)	ton	79.00	66.00
Threshing	•	ton	30.00	25.00
Irrigating		month/ha	42.00	35.00
Veterinary		head	3.36	2.40
Fences		ha	180.00	150.00
Labour/9		man-day	2.50	5.00
	and the second second	· · · · · · · · · · · · · · · · · · ·		

Table J-14

/1: Tomatos assumed Note:

> Orthene 95% assumed /2:

Daconil assumed /3:

/4: Gesaprin 80 assumed

/5: Zinc phosphate assumed

- The economic prices of seed/seedlings are derived by /6; applying the long-term average ratio of 1.3 estimated in Table J-13.
- For the estimation of economic prices of fertilizers and /7: chemicals, the long-term ratio of 1.4 is applied.

Economic price of urea (see Table J-12)/ Financial price of urea = 1.4

For the estimation of the economic costs of the machinery /8: works, it is assumed that these works consist of 75% of imported component and 25% of domestic component. Then, the foreign exchange factor (1.25) is applied only to the imported component. The calculation is made as follows:

 $0.75 \ge 1.25 + 0.25 \ge 1.0 = 1.2$

The estimated ratio of 1.2 is applied to all the financial costs of machinery works.

- /9:
- The shadow rate of 50% is applied.

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and the second			1
		Unit:	Lps./ha)
Crop	Gross/1	Production/1	Net/1
Crop	Income	Cost	Return
Sugar cane (average)	5,875	1,493/2	4,382
(Plant cane)		(2,409)	
(Ratcon cane)		(1,264)	
Cotton	6,370	2,938	3,432
Paddy	3,065	1,520	1,545
Maize	2,205	1,179	1,026
Beans	2,800	1,017	1,783
Sesame	2,010	722	1,288
Melon	6,960	3,276	3,684
Water melon	3,264	1,997	1,267
Vegetables	5,370	3,807	1,563
Pasture	455	133	322
 A second s			

Table J-15 SUMMARY OF ECONOMIC BALANCE OF CROP PRODUCTION WITH PROJECT

Note: /1

<u>/1</u>: Refer to Table J-17

/2:

Weighted average of 1-Plant cane and 4-Ratoon cane

Table J-16	SUMMARY OF ECONOMIC BALANCE OF CROP
	PRODUCTION WITHOUT PROJECT

		(Unit	(Unit: Lps./ha)		
Crop	Gross <u>/1</u> Income	Production <u>/1</u> Cost	Net/1 Return		
Sugar cane (average)	an an Arrana. An Arrana Arrana				
- Estate farm	3,431	1,053/2	2,378		
(Plant cane) (Ratoon cane)		(2,318) (1,010)			
- Out growers' farm	3,807	918 <u>/2</u>	2,889		
(Plant cane) (Ratoon cane)		(2,134) (858)			
Maize	980	610	370		
Sorghum	912	595	317		
Paddy	2,759	1,517	1,242		
Cotton	4,186	2,058	2,128		
Sesame	938	393	545		
Melon	4,524	3,074	1,450		
Water melon	2,176	1,149	1,027		
Pasture/Forest	303	90	213		

Note: /1: Refer to Table J-18

<u>/2</u>: Weighted average of 1-Plant cane, 5-Ratoon cane and 1-Fallow

Table J-17(1) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(1) SUGAR CANE UNDER ALL YEAR ROUND IRRIGATION ESTATE AND OUT GROWERS' FARM (PLANT CANE))

D	ESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	
				-	
A) G	ROSS INCOME				
	-AVERAGE YIEL	D (T/HA)	125,00	47.00	5875
B) P	RODUCTION COST		·	·	
	FARM INPUT		18 M (1997)	· ·	
	-SEED	(TON)	6.00	32.50	195
	-UREA		220.00	0,92	202
• •	-12-24-12		· · · · ·	0.94	
÷	-15-15-15	(KG) (KG)	330.00	0,95	314
	-INSECTICIDES	(KG)	÷.	49.00	· C
	-FUNGICIDES	(KG)	12.00	47.00	564
	-HERBICIDES		4.00	21.18	85
	-RODENTICIDES	(KG)	3.00	13.16	39
2)	LABOR				•
	-LABOR IN TOT	AL (M/D)	200.00	2.50	500
3)	MACHINERY				
	-SUBSOILING	and the second	1	90.00	90
	-PLOWING	(TIMES)	i	64,00	64
	-HARROWING	(TIMES)	2	36.00	
	-FERTILIZING			26,00	26
	-RIDGING		1	48.00	48
	-SEEDING	(TIMES) (TIMES) (TIMES)		32.00	0
	-CULTIVATING	(TIMES)	1		32
	-MULTING	(TIMES)	1	32.00	32
	-IRRIGATING		° 	42.00	C
	-CHEMICAL APP		1		31
· .	-RATOONING -HARVESTING	(TIMES)	-	48,00	C
	-HARVESTING	(IONS)		79.00	0
	-HARVESTING -THRESHING MISCELLANEOUS	(TONS)		30,00	
4)	MISCELLANEOUS	(5%)			115
•	TOTAL.				2409
c> i	NET RETURN (A	B)			3466

Table J-17(2) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(2) SUGAR CANE UNDER ALL YEAR ROUND IRRIGATION ESTATE AND OUT GROWERS' FARM (RATOON CANE)

				and the second second
DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	AMOUNT (LPS)
عنه هين ورو ورو الله الله الله الله الله الله الله عنه عليه عنه الله الله الله الله الله الله الله ال		ماند است بالله ميط ودو وين عمو من	, ang fant was mut wat aph and wat w	ang pang apad apad apad pang apad apad
A) GROSS INCOME		۰.		
-AVERAGE YIELD	(TZHA)	125.00	47.00	5875
		· · ·		
B) PRODUCTION COST			Ender State	
1) FARM INPUT			00 50	
-SEED	(TON)	. <u>∽</u> .,	32.50	0
-UREA	(KG)	220.00	0.92	202
-12-24-12	(KG)	-	0.94	
-15-15-15	(KG)	330,00	0.95	314
-INSECTICIDES	(KG)	• •	49.00	0
-FUNGICIDES	(KG)		47.00	0
-HERBICIDES	(KG)	4.00	21.18	85
-RODENTICIDES	(KG)	3.00	13.16	39
2) LABOR			~ ~ ~	
-LABOR IN TOTAL	_ (M/D)	108.00	2.50	395
3) MACHINERY			00 00	
-SUBSOILING	(TIMES)		90.00	0
-PLOWING	(TIMES)	· · · · · · · · · · · · · · · · · · ·	64.00	0
-HARROWING	(TIMES)	-	36.00	
-FERTILIZING	(TIMES)		26.00 48.00	26
-RIDGING	(TIMES)		32.00	0
-SEEDING	(TIMES)		32.00	. U
	(TIMES)	2	32.00	64
-MULTING	(TIMES)		42.00	04 0
		1	31.00	
-CHEMICAL APP -RATOONING	(TIMES) (TIMES)	1	48.00	31 48
-HARVESTING	(TONS)		79.00	40 0
	(TONS)		30.00	0
-THRESHING 4) MISCELLANEOUS		-	30.00	60 60
47 PHOUELLHNEUUS	(U/s/			00
TOTAL				1264
) NET RETURN (A-E	3)			4611

Table J-17(3) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

۰.

(3) COTTON

DESCRIPTION	UNIT	Q'TY.	UNIT PRICE (LPS)	AMOUNT (LPS)
A) GROSS INCOME -AVERAGE YIELD	(T/HA)	3 50	1820.00	ፈንፖበ
		0.00	1020.00	0070
B) PRODUCTION COST				
1) FARM INPUT				
-SEED	(KG)	25.00	1.14	:29
-UREA	(KG)		0.92	184
-12-24-12		210.00	0.94	197
-15-15-15	(KG)	. - 1	0.95	0
-INSECTICIDES	(KG)			1176
-FUNGICIDES	(KG)	, -	47.00	0
-HERBICIDES	(KG)		21.18	
-RODENTICIDES	(KG)	_	13.16	0
2) LABOR				
-FAMILY LABOR				
-HIRED LABOR	(MZD)	53.00	2.50	133
3) MACHINERY	TIMEEN	4	00 00	
-SUBSOILING (. · 1 1	90.00 64.00	90 64
-PLOWING (-HARROWING (3		108
-FERTILIZING (26,00	26
-RIDGING (1		48
	TIMES)	1	32.00	32
-CULTIVATING (32,00	96
-MULTING (<u>1</u>		32
-IRRIGATING (M				0
-CHEMICAL APP (12		372
-RATOONING (0
-HARVESTING			79.00	0
-THRESHING	(TONS)	.	30.00	0
4) MISCELLANEOUS				140
TOTAL				2938
C) NET RETURN (A-B)	1			3432

Table J-17(4) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(4) MAIZE

DESCRIPTION UNIT	Q'TY	UNIT PRICE (LPS)	AMOUNT (LPS)
نیں ہیں ہیں ایس سے است ہیں ہیں ہیں ایس سے عند ایک میں میں علی میں میں علی ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک	کی است این از این	a tra una una tra por mon mon	hang gang gain and the total time that
A) GROSS INCOME			
-AVERAGE YIELD (T/HA)	4.50	490.00	2205
B) PRODUCTION COST			e e e la pede arei
1) FARM INPUT			
-SEED (KG)	16.00	1.43	23
-UREA (KG)	170.00	0.92	156
-12-24-12 (KG)	210.00	0.94	197
-15-15-15 (KG)		0.95	0
-INSECTICIDES (KG)	2.40	49.00	118
-FUNGICIDES (KG)		47.00	0
-HERBICIDES (KG)	1.40	21.18	30
-RODENTICIDES (KG)		13.16	0
2) LABOR			
-FAMILY LABOR (M/D)	26.00	2.50	65
-HIRED LABOR (M/D)	-	2.50	0
3) MACHINERY			
-SUBSOILING (TIMES)	-	90.00	0
-PLOWING (TIMES)	* 1 *	64.00	64
-HARROWING (TIMES)	2	36.00	72
-FERTILIZING (TIMES)	1	26.00	26
-RIDGING (TIMES)	1 1	48.00	48
-SEEDING (TIMES)	1		32
-CULTIVATING (TIMES)	1	32.00	32
-MULTING (TIMES)	1	32.00	32
-IRRIGATING (MONTHS)		42.00	
-CHEMICAL APP (TIMES)	3	31.00	93
-RATOONING (TIMES)			0
-HARVESTING (TONS)	. .	79.00	0
-THRESHING (TONS)	4.5	30.00	135
4) MISCELLANEOUS (5%)	n de la companya de l Companya de la companya de la company	·	56
TOTAL	· · ·		1179
C) NET RETURN (A-B)			1026

Table J-17(5) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(5) PADDY

	DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	AMOUNT (LPS)
• •					
A)	GROSS INCOME		· .		
	-AVERAGE YIELD	(17HA)	5.00	513.00	3065
B)	PRODUCTION COST	•	· .	· ·	
	1) FARM INPUT	· .			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	-SEED	(KG)	70.00	1.72	120
	-UREA	(KG)	200.00	0.92	
	-12-24-12		160.00	0.94	•
	-15-15-15	(KG) (KG)	· · · · · · · · ·	0.95	0
	-INSECTICIDES		2.00	49.00	98
	-FUNGICIDES	(KG)	· _ ·	47.00	0
	-HERBICIDES	(KG)	4.00	21.18	85
	-RODENTICIDES	(KG)	-	13.16	0
	2) LABOR	· · · · · ·			*
	-FAMILY LABOR	(M/D)	37.00	2,50	93
	-HIRED LABOR	(M/D)	-	2.50	0
÷	3) MACHINERY			• .	
		(TIMES)		90.00	Û
	-PLOWING	(TIMES)	1	64.00	64
	-HARROWING	(TIMES)	3	36.00	108
	-FERTILIZING	and the second	. 1	23.00	26
	-RIDGING	(TIMES)	-	48.00	0
	-SEEDING	(TIMES)	1	32.00	32
	-CULTIVATING	A set of the set of		32.00	0
	-MULTING	(TIMES)	·	32.00	0
	-IRRIGATING			42.00	0
	-CHEMICAL APP		3	31.00	93
	-RATOONING				Q
	-HARVESTING	(TONS)	5		
	-THRESHING	(TONS)	·	30.00	0
	4) MISCELLANEOUS	(5%)			72
	TOTAL				1520
c>	NET RETURN (A-	R)			1545

Table J-17(6)				<u>rion</u>	
PER HECTARE WITH PROJECT					
			· •		
(6) BEAN					
			UNIT	na ina pag gib ban dan bad pag	
DESCRIPTION	UNIT	Q'TY	PRICE	AMOUNT	
			(LPS)	(LPS)	
ر پیچ نژنو تین بین بین بین بین بین بین بین ^ر یب این اس این این بین این این این این این این این این این ا					
A) GROSS INCOME				an an taon an t	
-AVERAGE YIELD	(T/HA)	2.00	1400.00	2800	
DA DOMNIOTION COOT					
 B) PRODUCTION COST 1) FARM INPUT 				e ter production	
-SEED	(KG)	45.00	2.57	116	
-UREA	(KG)	40.00	0.92	· / ·	
-12-24-12	(KG)		0.94	0	
-15-15-15	(KG)	200,00	0.95	190	
-INSECTICIDES	(KG)	2.00	49.00	98	
-FUNGICIDES	(KG)		47.00	0	
-HERBICIDES	(KG)	1.00		21	
-RODENTICIDES	(KG)		13.16	0	
2) LABOR	ZM 2000	32.00	2.50	80	
-FAMILY LABOR -HIRED LABOR	(M/D) (M/D)	32.00	2.50	ου . Ο	
3) MACHINERY	11/ 07		2.00	, v	
-SUBSOILING	(TIMES)	-	90.00	0	
	(TIMES)	1	64.00	64	
	(TIMES)	2	36.00	72	
-FERTILIZING	(TIMES)	1	26.00	26	
-RIDGING	(TIMES)	·· 1	48.00	48	
-SEEDING	(TIMES)	1	32.00	32	
-CULTIVATING	(TIMES)	· <u>1</u>	32.00	32	
-MULTING	(TIMES)	-	32.00	0	
	(MONTHS)		42.00	0	
-CHEMICAL APP -RATOONING	(TIMES)	3	31.00 48.00	93 0	
-HARVESTING	(TIMES) (TONS)		48.00	0	
-THRESHING	(TONS)	2	30.00	60	
4) MISCELLANEOUS	(5%)	· *		48	
TOTAL				1017	
				1017	
C) NET RETURN (A-E	3>		- ·	1783	

(7) SESAME		· · · · · · · · · · · · · · · · · · ·	
DESCRIPTION UNIT	Q'TY	UNIT PRICE (LPS)	
A) GROSS INCOME -AVERAGE YIELD (T/HA)	1.50	1340.00	2010
B) PRODUCTION COST 1) FARM INPUT		. · · · ·	
-SEED (KG)	3.00	4.29	13
-URFA (KG)	70.00	0.92	
-12-24-12 (KG)	80.00		75
-15-15-15 (KG)		0.95	0
-INSECTICIDES (KG)		49.00	98
-FUNGICIDES (KG)		47.00	
-HERBICIDES (KG)	1.00		21
-RODENTICIDES (KG)	. .	13.16	0
2) LABOR		0 50	
-FAMILY LABOR (M/D)	20.00	2,50 2,50	50
-HIRED LABOR (M/D) 3) MACHINERY		2.50	0
-SUBSOILING (TIMES)	—	90.00	Ũ
-PLOWING (TIMES)	1	64.00	64
-HARROWING (TIMES)	2	36.00	72
-FERTILIZING (TIMES)	1	26.00	
-RIDGING (TIMES)	i	48.00	48
-SEEDING (TIMES)	. 1	32.00	32
-CULTIVATING (TIMES)	1	32.00	32
-MULTING (TIMES)		32.00	0
-IRRIGATING (MONTHS)			0
-CHEMICAL APP (TIMES)	3	31.00	93
-RATOONING (TIMES)			0
-HARVESTING (TONS) -THRESHING (TONS)		79.00	0
4) MISCELLANEOUS (5%)		30.00	0 34
47 MISCELLHINE008 (3/7	*		34
TOTAL			722
C) NET RETURN (A-B)			1288

 Table J-17(7)
 ECONOMIC BALANCE OF CROP PRODUCTION

 PER HECTARE WITH PROJECT

Table J-17(8)

ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(8) MELON

DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	AMOUNT (LPS)
وروا المراجع ال				
A) GROSS INCOME	· · · ·	н 1		
-AVERAGE YIELD	(T/HA)	8.00	870.00	6960
B) PRODUCTION COST				
1) FARM INPUT				or.
-SEED	(KG)		63.05	95
-UREA	(KG)	180.00	0.92	166
-12-24-12	(KG)	میں شریف بیر شد مر	0.94	0
-15-15-15		250.00	0.95	238
-INSECTICIDES		12.00	49.00	588
-FUNGICIDES		22.70		1067
-HERBICIDES	(KG)	3.00	21.18	64
-RODENTICIDES	(KG)		13.16	0
2) LABOR		i terre de		
-FAMILY LABOR	(M/D)	149.00	2.50	373
-HIRED LABOR	(M/D)	<u> </u>	2.50	0
3) MACHINERY				
-SUBSOILING	(TIMES)		90.00	Ū
-PLOWING	(TIMES)	1	64.00	64
-HARROWING	(TIMES)	3	36.00	108
-FERTILIZING	(TIMES)	1 1	26.00	26
-RIDGING	(TIMES)	1	48.00	48
-SEEDING	(TIMES)	1	32.00	32
-CULTIVATING	(TIMES)	3	32.00	96
-MULTING	(TIMES)	_	32.00	0 - C
-IRRIGATING	(MONTHS)	- <u></u>	42.00	0
-CHEMICAL APP	(TIMES)	5	31.00	155
-RATOONING	(TIMES)		48.00	0
-HARVESTING	(TONS)	-	79.00	0
-THRESHING	(TONS)	· · · ·	30.00	0
4) MISCELLANEOUS	(5%)		10 T.H	156
TOTAL		•	• •	3276
IUIAL				3210
C) NET RETURN (A-I	B)			3684

Table J-17(9) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(9) WATER MELON

DESCRIPTION	UNIT	Q'TY		AMOUNT (LPS)
nay gan line site yan asa mu para kan kan nay mu asa sini kan kan nay mu asa sini kan kan kan k	دری ویژه هری ایری ایری شمه وعد درد بری بری بری <u>ب</u> ری	aan maad Minel dhadi waxa pada waxe nana maad be		
A) GROSS INCOME -AVERAGE YIELD		12.00	272.00	3264
			· · ·	
B) PRODUCTION COST		1. 1.		
1) FARM INPUT		1 50	50 05	
	(KG) (KG)	1.50		75
-UREA			0,92	110
-12-24-12	(KG)	- 200.00 11.00	0.94	0
-15-15-15	(КС)	200.00	0.95	190
-INSECTICIDES	(KG)	2.80	49.00	539
-FUNGICIDES	(KG)	2.80	47.00	1.32
-HERBICIDES	(KG)	3.00	21.18	64
-RODENTICIDES	(KG)		13.16	0
2) LABOR -FAMILY LABOR	AM ZDA	100 00	0 50	0.05
-HIRED LABOR	(M/D)	130.00	2.50	325 0
3) MACHINERY			2:30	U N
-SUBSOILING	CTIMEON	_	90.00	· . O
-PLOWING		4	64.00	64
-HARROWING		3	36.00	108
-FERTILIZING		1	26.00	26
	(TIMES)	 1	48.00	48
-SEEDING			32.00	32
-CULTIVATING	A DECEMBER OF		32.00	96
		-	32.00	. 0
-MULTING -IRRIGATING	(MONITHES)		42.00	0
-CHEMICAL APP		2	31.00	93
-RATCONING			48.00	/3 0
-HARVESTING			79.00	0
-THRESHING		·	30.00	Ő
4) MISCELLANEOUS		1.5	00,00	. 95
47 HI DOLLENNEDDD	1 0/17			/0
TOTAL				1997
C) NET RETURN (A-I	3)			1267

J ~ 63

Table J-17(10)

ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(10) VEGETABLE (TOMATOES ASSUMED)

DESCRIPTION UN	IT Q	ΤY		AMOUNT (LPS)
) GROSS INCOME -AVERAGE YIELD (T	ZHA) 31	0.00 1	79.00	5370
PRODUCTION COST				
1) FARM INPUT	· · · ·			
-SEED	(KG)	.00	98.80	99
-UREA	(KG) 220	0.00	0.92	202
-12-24-12	(KG)		0.94	0
	(KG) 450	.00	0.95	428
-INSECTICIDES	(KG) 1	5.00	49.00	735
-FUNGICIDES	(KG) 24	1.00	47.00	1128
		3.00	21.18	64
-RODENTICIDES	(KG)	-	13.16	0.0
2) LABOR				
	M/D) 12-		2.50	310
-HIRED LABOR (M/D) 65	5.00	2.50	163
3) MACHINERY				
	MES)		90.00	0
-PLOWING (T1	MES		64.00	64
-HARROWING (TI		3	36.00	108
	MES)	1	26.00	26
	MES)		48.00	48
	MES		32.00	0
-CULTIVATING (TI	The second se	2	32.00	64
	MES)		32.00	32
-IRRIGATING (MON			42.00	0
-CHEMICAL APP (TI	and the second	5	31.00	155
-RATDONING (TI			48.00	0
-HARVESTING (T	ONS) ONS)	·	79.00	0
-THRESHING (T	UNS)	-	30.00	0
4) MISCELLANEOUS (5	7.7		· · ·	181
TOTAL	· · · ·	•		3807
NET RETURN (A-B)	· · ·			1563

Table J-17(11) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(11) PASTURE/FOREST (CATTLE RAISING)

DESCRIPTION UNIT		UNIT PRICE (LPS)	AMOUNT (LPS)
A) GROSS INCOME -BEEF (KG)	195 00	1.63	318
		0.48	
TOTAL			455
B) PRODUCTION COST	· .	• •	
1) RECOVERY OF INITIAL			
INVESTMENT *			50
2) RAISING COST -LOBOUR COST **	· .		65
(A*B*C)			
A (HEAD/HA)			
B (MAN/HEAD) C (LPS/MAN/YEAR)			
-VETERINARY COST			÷
(A*B)	·		12
A (HEAD) B (LPS/HEAD)	3.5		
4) MISCELLANEOUS (5%)			6
TOTAL			133
C) NET RETURN (A-B)			322
NOTE * : -LAND PREPARATIO		LPS.	136.00
-SEEDING BY MACH		LPS.	32.00
-SEED			72.00
-FENCES			180.00
-MISCELLANEOUS			84.00
(INCLUDING N	1A I NTENANCI	E)	
TOTAL		LPS.	504.00
-USEFUL LIFE		YEARS,	10
פברתו ובפע		LPS/YEAR	50.4
RECOVERY OF INITIAL INVESTM		LLOV EEHK	JU.M

** : OPPORTUNITY COST IS NOT APPLIED FOR COWBOYS

Table J-18(1) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(1) SUGAR CANE ESTATE FARM (PLANT CANE)

DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	AMOUNT (LPS)
			ala seti	
A) GROSS INCOME -AVERAGE YIELD	(T / UA)	72 00	47 00	3431
-HVERHOE ITELD		70100		0401
B) PRODUCTION COST				anta ang kang sa
1) FARM INPUT			na siya	
-SEED	(TON)	10.00	32.50	325
-UREA	(KG)	170.00	0.92	156
-12-24-12	(KG)	-	0.94	0
-15-15-15	(KG)	110.00	0.95	105
-INSECTICIDES	(KG)		49.00	0
-FUNGICIDES	(KG)	12.00	47.00	564
-HERBICIDES	(KG)	4.00	21.18	85
-RODENTICIDES	(KG)	2.00	13.16	26
2) LABOR		· .		
-FAMILY LABOR		2	2.50	0
-HIRED LABOR	(MZD)	164.00	2.50	410
3) MACHINERY				
-SUBSOILING	(TIMES)	1 1	90.00	90
-PLOWING	(TIMES)	_		64
-HARROWING	(TIMES)	2	36.00	72
-FERTILIZING	(TIMES)	-	26.00	.0
-RIDGING	(TIMES)	1	48.00	48
-SEEDING	(TIMES)	-	32.00	0
-CULTIVATING	(TIMES)	1		32
-MULTING	(TIMES)	. 1	32.00	32
	(MONTHS)	4	42.00	168
-CHEMICAL APP	(TIMES)	1 - 1	31.00	31
-RATOONING	(TIMES)		48.00	0
-HARVESTING	(TONS)	<u> </u>	79.00	Ö
-THRESHING	(TONS)	. .	30.00	0
4) MISCELLANEOUS	(5%)	· · · · ·		110
TOTAL				2318
) NET RETURN (A-E	21	· .		1113

Table J-18(2) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(2) SUGAR CANE ESTATE FARM (RATOON CANE)

DESCRIPTION UNIT	QTTY	UNIT PRICE (LPS)	AMOUNT (LPS)
A) GROSS INCOME	70.00	472 6.6	
-AVERAGE YIELD (T/HA)	73.00	47.00	3431
PRODUCTION COST	·		
1) FARM INPUT			
-SEED (TON)		32.50	0
-UREA (KG)	170.00	0.92	156
-12-24-12 (KG)	- 110.00	0.94	0
-15-15-15 (KG)	110,00	0.95	105
-INSECTICIDES (KG)		49.00	
-FUNGICIDES (KG)		47.00	
-HERBICIDES (KG)		21.18	
-RODENTICIDES (KG)	2.00	13.16	26
2) LABOR		~ · ~ ~	
-FAMILY LABOR (M/D)	124.00	2.50	0 310
	124.00	2.50	310
3) MACHINERY -SUBSOILING (TIMES)		90.00	0
-PLOWING (TIMES)		64.00	0
-HARROWING (TIMES)		36.00	0
-FERTILIZING (TIMES)		26.00	-
-RIDGING (TIMES)	·	48.00	0
-SEEDING (TIMES)	·	32.00	0
-CULTIVATING (TIMES)		32.00	0
-MULTING (TIMES)	2	32.00	
-IRRIGATING (MONTHS)	. 4	42.00	168
-CHEMICAL APP (TIMES)	. 1	31,00	. 0
-RATOONING (TIMES)	1	48.00	
-HARVESTING (TONS)	-	79.00	0
-THRESHING (TONS) 4) MISCELLANEOUS (5%)	·	30.00	Ű
4) MISCELLANEOUS (5%)			48
TOTAL			1010
C) NET RETURN (A-B)			2421

Table J-18(3)	ECONOMIC BALANCE OF CROP PRODUCTION PER
, ,	
	HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(3) SUGAR CANE OUT GROWERS' FARM (PLANT CANE)

DESCRIPTION	UNIT	Q′TY	UNIT PRICE (LPS)	AMOUNT (LPS)
a ann ann ann ann ann ann ann ann ann a				
A) GROSS INCOME -AVERAGE YIELD	(TZHA)	81.00	47.00	3807
B) PRODUCTION COST				n an an Araba An Araba Araba an Araba
1) FARM INPUT				de la carecta de la composición de la c
-SEED	(TON)	10,00	32.50	325
-UREA	(KG)	170.00	0.92	156
-12-24-12	(KG)	—	0.94	1. S. 1. S. 0
-15-15-15	(KG)	110.00	0.95	105
-INSECTICIDES			49.00	0
-FUNGICIDES	(KG)	12.00	47.00	564
-HERBICIDES	(KG)	4.00	21.18	85
-RODENTICIDES	(KG)	4.00 2.00	13.16	26
2) LABOR		· · ·		e de la compañía
-FAMILY LABOR			2.50	343
-HIRED LABOR	(M/D)	36.00	2.50	90
3) MACHINERY				
-SUBSOILING	(TIMES)		90.00	90
-PLOWING	(TIMES)	1	64,00	64
-HARROWING	(TIMES)	2	36.00	72
-FERTILIZING		, 144	26.00	j – 141 – 1 0
-RIDGING	(TIMES)	1	48,00	48
-SEEDING	(TIMES)		32.00	а (1996) Стар (1996)
-CULTIVATING	(TIMES)	1	32.00	32
-MULTING	(TIMES)	. 1 - 1	32.00	32
-IRRIGATING	(MONTHS)		42.00	0
-CHEMICAL APP		1	31.00	0 -
-RATOONING			48.00	0
-HARVESTING	(TONS)	. .	79.00	0
-THRESHING			30.00	5 - 0
4) MISCELLANEOUS	(5%)			102
TOTAL		 		2134
C) NET RETURN (A-E	3)			1673
	'		e Le la composition	

(4) SUGAR CANE OUT GROWERS'FA	ARM (RATOO	N CANE)	
DESCRIPTION UNIT	Q'TY	UNIT PRICE (LPS)	
A) GROSS INCOME -AVERAGE YIELD (T/HA)	81.00	47.00	3807
		·	
3) PRODUCTION COST 1) FARM INPUT			
-SEED (TON)	0 0 0	22 50	, D
-UREA (KG)	170.00	0.92	156
-12-24-12 (KG)	-	0.94	
-15-15-15 (KG)	110.00	0.95	105
-INSECTICIDES (KG)		49.00	0
-FUNGICIDES (KG)		47.00	Ð
-INSECTICIDES (KG) -FUNGICIDES (KG) -HERBICIDES (KG)	4.00	21.18	85
-RODENTICIDES (KG)	2.00	13.16	26
-FAMILY LABOR (M/D)	106.00	2.50	265
THINES CHOOK STR. DV	27.00	2.50	68
2) MACHINERY		•	al de la companya de
-SUBSOILING (TIMES) -PLOWING (TIMES) -HARROWING (TIMES)	~	90.00	0
-PLOWING (TIMES)		64.00	
-HARROWING (TIMES)	·	36.00	0
~FERTILIZING (TIMES)		26.00	0
-RIDGING (TIMES) -SEEDING (TIMES)		36.00 26.00 48.00 32.00 32.00	0
-SEEDING (TIMES)	-	32.00	U .
-CULTIVATING (TIMES) -MULTING (TIMES)	2	32.UU 22 00	
	2	32.00 42.00	64
-IRRIGATING (MONTHS)			0
-CHEMICAL APP (TIMES) -RATOONING (TIMES)	1	31.00 48.00	0
-RATOONING (TIMES) -HARVESTING (TONS)	1	48.00 79.00	48 0
-THRESHING (TONS)		79.00 30.00	0
4) MISCELLANEOUS (5%)	_	30.00	41
TOTAL			858

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Table J-18(5) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(5) MAIZE SEMI-MECHANIZED FARMING

DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	
المراجعة المراجع مناجع المراجع	A wai bay bay kan you nee pan ann ayn you ann ann ar ar ar ar ar	ا شاهو السبب باليور يوين هاية الالتي المناط الم		ng ang ang gan men kak dan dan dan dari dari
) GROSS INCOME				
-AVERAGE Y	(IELD (T/HA)	2.00	490.00	980
> PRODUCTION C	OST	· · · ·		
1) FARM INPUT	-			
-SEED	(KG)	16.00	1.43	23
-UREA	(KG)	80.00	0.92	74
-12-24-12	(KG)	90.00	0.94	85
-15-15-15	(KG)	1 .	0.95	са с О рбан
-INSECTICI	DES (KG)	1.00	49.00	49
-FUNGICIDE	S (KG)	 ,	47.00	0
-HERBICIDE	S (KG)	•••••	21.18	0.
-RODENTICI	DES (KG)		13.16	11 0
2) LABOR		·		
	BOR (M/D)			98
-HIRED LAE	BOR (M/D)	10.00	2.50	25
3) MACHINERY				
-SUBSOILIN	IG (TIMES)		90.00	
-PLOWING	(TIMES)		64.00	64
-HARROWING		2	36.00	72
-FERTILIZI	NG (TIMES)		26.00	• 0
-RIDGING		-	48.00	0
-SEEDING	(TIMES)	· -	32.00	G
-CULTIVATI		-		0
-MULTING	(TIMES)	. .	32.00	Ö
	IG (MONTHS)		42.00	0
	APP (TIMES)	ì	31.00	31
	(TIMES)		48.00	0
-HARVESTIN			79.00	0
-THRESHING	(TONS)	2	30.00	60
4) MISCELLANE	OUS (5%)			29
TOTAL				610
) NET RETURN	(A-B)			370

Table J-18(6)

ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(6) MAIZE TRADITIONAL FARMING

DESCRIPTION	UNIT		UNIT PRICE (LPS)	AMOUNT (LPS)
A) GROSS INCOME -AVERAGE YIELD	17 1145	1 20	100 00	107
-AVERAGE YIELD	(IZMA)	1,30	470.00	637
B) PRODUCTION COST			-	
1) FARM INPUT				
-SEED		16.00	1.43	23
-UREA	(KG)	100.00	0.92	92
-12-24-12	(KG)		0.94	0
-UREA -12-24-12 -15-15-15	(KG)	· · · ·	0.95	0
-INSECTICIDES	(KG)	1.00	49.00	
-FUNGICIDES	(KG)		47.00	0
-HERBICIDES	(KG)		21.18	0
-RODENTICIDES	(KG)		13.16	ΰ
2) LABOR				
-FAMILY LABOR		51.00		128
-HIRED LABOR	(M/D)	<u> </u>	2.50	0
3) MACHINERY	n an		· .	
-SUBSOLLING -PLOWING	(TIMES)		90.00	0
-PLOWING	(TIMES)	.8	64.00	51
-HARROWING		1.6		58
-FERTILIZING			26.00	Ű
-RIDGING	(TIMES)		48.00	0
	(TIMES)	-	32.00	
-CULTIVATING		,8	32.00	26
-MULTING			32.00	0 0
			42.00 31.00	0
-CHEMICAL APP -RATOONING	(THEO)		48.00	0 0
-HARVESTING	TUNES		48.00 79.00	0
-THRESHING	(TONE)			• •
4) MISCELLANEOUS		1.0		23
	1 0/17			20
TOTAL				489
C) NET RETURN (A-I	₽)			148

DESCRIPTION UNIT Q'TY PRICE PRICE AMOUNT (LPS) A) GROSS INCOME -AVERAGE YIELD (T/HA) 1.90 480.00 912 B) PRODUCTION COST 1) FARM INPUT -SEED (KG) 10.00 2.21 22 -UREA (KG) 80.00 0.92 74 -12-24-12 (KG) 80.00 0.94 75 -15-15-15 (KG) -0.95 0 -INSECTICIDES (KG) -0.95 0 -HERBICIDES (KG) -13.16 0 -RODENTICIDES (KG) -13.16 0 2) LABOR -FAMILY LABDR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 39.00 2.50 25 3) MACHINERY - - 90.00 0 -PLOWING (TIMES) - 90.00 0 -PLOWING (TIMES) - 92.00 0 -FERTILIZING TIMES) - 90.00 0	(7) SORGHUM SEMI-MEC	CHANIZED	FARMING		
-AVERAGE YIELD (T/HA) 1.90 480.00 912 B) PRODUCTION COST -SEED (KG) 10.00 2.21 22 -UREA (KG) 80.00 0.92 74 -12-24-12 (KG) 80.00 0.92 74 -12-24-12 (KG) 80.00 0.92 74 -15-15-15 (KG) - 0.95 0 -INSECTICIDES (KG) - 0.97 0 -FUNGICIDES (KG) - 47.00 0 -FAMILY LABOR (KG) - 13.16 0 2) LABOR - - 10.00 2.50 98 -HIRED LABOR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY - - 90.00 0 -FERTILIZING (TIMES) - 90.00 0 -FERTILIZING (TIMES) - 26.00 0 -FERTILIZING (TIMES) - 32.00 0 -RIDGING <th>DESCRIPTION</th> <th>UNIT</th> <th>QʻTY</th> <th>PRICE</th> <th></th>	DESCRIPTION	UNIT	QʻTY	PRICE	
-AVERAGE YIELD (T/HA) 1.90 480.00 912 B) PRODUCTION COST -SEED (KG) 10.00 2.21 22 -UREA (KG) 80.00 0.92 74 -12-24-12 (KG) 80.00 0.92 74 -12-24-12 (KG) 80.00 0.92 74 -15-15-15 (KG) - 0.95 0 -INSECTICIDES (KG) - 0.95 0 -FUNGICIDES (KG) - 47.00 0 -FAMILY LABOR (KG) - 13.16 0 2) LABOR - - 10.00 2.50 98 -HIRED LABOR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY - - 90.00 0 -PLOWING (TIMES) - 90.00 0 -FERTILIZING (TIMES) - 26.00 0 -FERTILIZING (TIMES) - 32.00 0 -RIDGING					
1) FARM INPUT -SEED (KG) 10.00 2.21 22 -UREA (KG) 80.00 0.92 74 -12-24-12 (KG) 80.00 0.94 75 -15-15-15 (KG) - 0.95 0 -INSECTICIDES (KG) 1.00 49.00 49 -FUNGICIDES (KG) - 47.00 0 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR -FAMILY LABOR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY -SUBSOILING (TIMES) - 90.00 0 -PLOWING (TIMES) 1 64.00 64 -HARROWING (TIMES) - 26.00 0 -RIDGING (TIMES) - 32.00 0 -RIDGING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 48.00 0 -RIDGING (TIMES) - 32.00 0 -RIDGING (TIMES) - 32.00 0 -RIDGING (TIMES) - 48.00 0 -RIDGING (TIMES) - 32.00 0 -RING (TIMES) - 32.00 0 -HARVESTING (TONS) - 79.00 0 -THRESHING (TONS) - 79.00 0 -THR		(T/HA)	1.90	480.00	912
1) FARM INPUT -SEED (KG) 10.00 2.21 22 -UREA (KG) 80.00 0.92 74 -12-24-12 (KG) 80.00 0.94 75 -15-15-15 (KG) - 0.95 0 -INSECTICIDES (KG) 1.00 49.00 49 -FUNGICIDES (KG) - 47.00 0 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR -FAMILY LABOR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY -SUBSOILING (TIMES) - 90.00 0 -PLOWING (TIMES) 1 64.00 64 -HARROWING (TIMES) - 26.00 0 -RIDGING (TIMES) - 32.00 0 -RIDGING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 48.00 0 -RIDGING (TIMES) - 32.00 0 -RIDGING (TIMES) - 42.00 0 -RING (TIMES) - 42.00 0 -RATOONING (TIMES) - 42.00 0 -CHEMICAL APP (TIMES) - 42.00 0 -CHEMICAL APP (TIMES) - 48.00 0 -CHEMICAL APP (TIMES) - 48.00 0 -CHEMICAL APP (TIMES) - 48.00 0 -THRESHING (TONS) - 79.00 0 -THRESHING (TONS) - 79.00 0 -THRESHING (TONS) - 79.00 0 -THRESHING (TONS) - 79.00 0 -THRESHING (TONS) 1.9 30.00 57 4) MISCELLANEOUS (5%)				· · ·	·
-SEED (KG) 10.00 2.21 22 -UREA (KG) 80.00 0.92 74 -12-24-12 (KG) 80.00 0.94 75 -15-15-15 (KG) - 0.95 0 -INSECTICIDES (KG) - 0.95 0 -FUNGICIDES (KG) - 47.00 0 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR - - 13.16 0 -FAMILY LABOR (M/D) 39.00 2.50 25 3) MACHINERY - 90.00 0 -FERTILIZING (TIMES) - 90.00 0 -FERTILIZING (TIMES) - 26.00 72 -FERTILIZING (TIMES) - 32.00 0 -RIDGING (TIMES) - 32.00 0 -SEEDING (TIMES) - 32.00 0 -RINGING (TIMES) -		. '		1	
-UREA (K6) 80.00 0.92 74 -12-24-12 (K6) 80.00 0.94 75 -15-15-15 (K6) - 0.95 0 -INSECTICIDES (K6) - 0.95 0 -INSECTICIDES (K6) - 0.95 0 -FUNGICIDES (K6) - 47.00 0 -HERBICIDES (K6) - 21.18 0 -RODENTICIDES (K6) - 13.16 0 2) LABOR - 13.16 0 -FAMILY LABDR (M/D) 39.00 2.50 28 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY - 90.00 0 -PLOWING (TIMES) - 90.00 0 -FERTILIZING (TIMES) - 26.00 0 -RIDGING (TIMES) - 32.00 0 -REDING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 32.00<		(KG)	10.00	2.21	22
-12-24-12 (KG) 80.00 0.94 75 -15-15-15 (KG) - 0.95 0 -INSECTICIDES (KG) 1.00 49.00 49 -FUNGICIDES (KG) - 47.00 0 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR -FAMILY LABDR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY -SUBSOILING (TIMES) - 90.00 0 -PLOWING (TIMES) 1 64.00 64 -HARROWING (TIMES) 2 36.00 72 -FERTILIZING (TIMES) - 26.00 0 -RIDGING (TIMES) - 48.00 0 -SEEDING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 32.00 0 -IRRIGATING (TIMES) - 48.00 0 -RIDGING (TIMES) - 32.00 0 -HARROWING (TIMES) - 32.00 0 -HARLON - 42.00 0 -HERICAL APP (TIMES) - 48.00 0 -CHEMICAL APP (TIMES) - 48.00 0 -HARVESTING (TONS) - 79.00 0 -HARVESTING (TONS) 1.9 30.00 57 4) MISCELLANEOUS (5%) 28					
-15-15-15 (KG) - 0.95 0 -INSECTICIDES (KG) 1.00 49.00 49 -FUNGICIDES (KG) - 47.00 0 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR - 13.16 0 -FAMILY LABDR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY - - 90.00 0 -PLOWING (TIMES) - 90.00 0 -PLOWING (TIMES) - 90.00 0 -FERTILIZING (TIMES) - 26.00 0 -FERTILIZING (TIMES) - 32.00 0 -RIDGING (TIMES) - 32.00 0 -SEEDING (TIMES) - 32.00 0 -HRIGATING (MONTHS) - 42.00 0 -HRAIGATING (MONTHS)					
-INSECTICIDES (KG) 1.00 49.00 49 -FUNGICIDES (KG) - 47.00 0 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR - 13.16 0 -FAMILY LABOR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY - 90.00 0 -SUBSOILING (TIMES) - 90.00 0 -PLOWING (TIMES) - 90.00 0 -PLOWING (TIMES) - 26.00 72 -FERTILIZING (TIMES) - 32.00 0 -RIDGING (TIMES) - 32.00 0 -SEEDING (TIMES) - 32.00 0 -MULTING (TIMES) - 32.00 0 -IRRIGATING (MONTHS) - 42.00 0 -RATOONING (T		5 t ()			
-FUNGICIDES (KG) - 47.00 0 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR - 13.16 0 -FAMILY LABOR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY - 90.00 0 -SUBSOILING (TIMES) - 90.00 0 -PLOWING (TIMES) - 90.00 0 -PLOWING (TIMES) - 26.00 0 -FERTILIZING (TIMES) - 22.00 0 -RIDGING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 32.00 0 -MULTING (TIMES) - 32.00 0 -IRRIGATING (MONTHS) - 42.00 0 -CHEMICAL APP (TIMES) 1 31.00 31 -RATOONING <td< td=""><td></td><td></td><td></td><td></td><td>49</td></td<>					49
-HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR - - 13.16 0 2) LABOR - - 13.16 0 -FAMILY LABDR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY - - 90.00 0 -PLOWING (TIMES) - 90.00 0 -PLOWING (TIMES) - 90.00 0 -PLOWING (TIMES) - 26.00 72 -FERTILIZING (TIMES) - 26.00 0 -RIDGING (TIMES) - 32.00 0 -SEEDING (TIMES) - 32.00 0 -IRRIGATING (MONTHS) - 42.00 0 -IRRIGATING (MONTHS) - 42.00 0 -IRRIGATING (TIMES) - 48.00 0 -HARVESTING (TONS) -					0
2) LABOR -FAMILY LABOR (M/D) 39.00 2.50 98 -HIRED LABOR (M/D) 10.00 2.50 25 3) MACHINERY -SUBSOILING (TIMES) - 90.00 0 -PLOWING (TIMES) 1 64.00 64 -HARROWING (TIMES) 2 36.00 72 -FERTILIZING (TIMES) - 26.00 0 -RIDGING (TIMES) - 26.00 0 -RIDGING (TIMES) - 48.00 0 -SEEDING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 32.00 0 -CULTIVATING (TIMES) - 32.00 0 -IRRIGATING (MONTHS) - 42.00 0 -IRRIGATING (MONTHS) - 42.00 0 -CHEMICAL APP (TIMES) 1 31.00 31 -RATOONING (TIMES) - 79.00 0 -HARVESTING (TONS) - 79.00 0 -THRESHING (TONS) 1.9 30.00 57 4) MISCELLANEOUS (5%) 28		(KG)	· _ /	21.18	0
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-THRESHING (TONS) 1.9 30.00 57 4) MISCELLANEOUS (5%) 28			·	and the second	
4) MISCELLANEOUS (5%) 28				2 a C - C - C - C - C - C - C - C - C - C	
			1.9	30.00	and the second
TOTAL 595	47 MISCELLANEUUS	(5%)		a ta sa	28
	TOTAL	·			595

Table J-18(8) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(8) SORGHUM TRADITIONAL FARMING

446 566 364 467 568 568 565 567 564 66	
NIT RICE AMO LPS) (LF)UNT °S)
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	83
0.94	0
0.95	0
	· O
7.00	0
1.18	0
3.16	0
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	432
	48
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HEATARE N	1.11100.1	PROJECT AN	D EKPOUNI C	
9) PADDY				
DESCRIPTION UN	4IT	Q'TY	UNIT PRICE (LPS)	AMOUNT (LPS)
) GROSS INCOME -AVERAGE YIELD (1	(/HA)	4.50	613.00	2759
PRODUCTION COST				
1) FARM INPUT	÷ .		e a Constante Antes	
		70.00		
-UREA	(KG)	190.00	0.92	175
		130.00		
	(KG)		0.95	
-INSECTICIDES				
	(KG)		47.00	
		4.00		
-RODENTICIDES	(ко)	<u> </u>	13.16	an ¹ an an 0
2) LABOR -FAMILY LABOR	MZDY		2.50	0
-HIRED LABOR				135
3) MACHINERY		0/100		
-SUBSOILING (T)	MES)	· · · · · · · · · · · · · · · · · · ·	90.00	0
-PLOWING (TI	A. 1998 A.	1	64,00	64
-HARROWING (T)		3	34.00	
-FERTILIZING (TI	MES>		26.00	0
-RIDGING (TI			48.00	Û
-SEEDING (T)		1		
-CULTIVATING (T)			32.00	
	MES)		32.00	0
the second se	ITHS)	.4	42.00	
	MES)	1	31.00	31
	(MES)	4.5	48.00	0 356
	TONS) TONS)	4.0	30.00	308
	5%)		50.00	72
TOTAL				1517
) NET RETURN (A-B)				1242

(10) COTTON				
DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	
ه جمله مدينا هدي الدين المرك المرك المرك مسية الوجر بهندة عيامة الملك (شيك المرك).		دوي ويود ايند الله وذي ويو منه الله ويو 	، عود البلغ الله البلغ البلغ البلغ البلغ الله عليه الله .	
A) GROSS INCOME				
	ELD (T/HA)	2.30	1820.00	418
B) PRODUCTION CO	IGT	·		
1) FARM INPUT			·.	
-SEED		25.00	1.14	2
-UREA		130.00		
-12-24-12		160.00		
-15-15-15	🗄 🦾 (Кб)	. 	0.95	
-INSECTICIC	DES (KG)	16.00	49.00	78
-FUNGICIDES	5 (KG)	*		·
-HERBICIDES	and the second			8
-RODENTICIE	ES (KG)	·	13.16	
2) LABOR		• .	~ ~ ~ ~	
	30R (M/D)		2.50	
-HIRED LABC 3) MACHINERY	DR (M/D)	93.00	2.50	23
	G (TIMES)		90.00	9
-PLOWING		1		6
-HARROWING	(TIMES)	2	36.00	
-FERTILIZIN	JG (TIMES)	1	26.00	2
-RIDGING	(TIMES)	<u> </u>	48.00	
-SEEDING	(TIMES)	1		Э
		1	32.00	З
-MULTING	G (TIMES) (TIMES)	-	32.00	
-IRRIGATING	3 (MONTHS)	-	42.00	
-CHEMICAL A		8	31.00	24
-RATOONING	(TIMES)		48,00	
-HARVESTING		÷••	79.00	
-THRESHING		-	30.00	
4) MISCELLANEC)US (5%)			9
TOTAL				205
C) NET RETURN	(A-B)			212
			1	

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Table J-18(11)ECONOMIC BALANCE OF CROP PRODUCTION PERHECTARE WITHOUT PROJECT AND PRESENT CONDITION

(11) SESAME

DESCRIPTION UNIT	Q'TY	UNIT PRICE (LPS)	
	tal nin ole als an link bis an life	£2,2 ifte die nun nut gut and sie get, s	
A) GROSS INCOME	~ ~~	1040.00	000
-AVERAGE YIELD (T/HA)	0.70	1340.00	938
B) PRODUCTION COST			
1) FARM INPUT			an an an an an Araba an Araba. An an Araba an Araba
-SEED (KG)	3.20	4.29	14
-UREA (KG)	80.00	0.92	74
-12-24-12 (KG)	-	0.94	0
-15-15-15 (KG)	-	0.95	0
-INSECTICIDES (KG)	1.00	49.00	0
-FUNGICIDES (KG)		47.00	0
-HERBICIDES (KG)	- '	21.18	0
-RODENTICIDES (KG)	_	13.16	0
2) LABOR		4 ¹ - 4	
-FAMILY LABOR (M/D)		2.50	93
-HIRED LABOR (M/D)	10.00	2.50	25
3) MACHINERY			
-SUBSOILING (TIMES)		90.00	0
-PLOWING (TIMES)	1	64.00	64
-HARROWING (TIMES)	2	36.00	72
-FERTILIZING (TIMES)		26.00	0
-RIDGING (TIMES)	-	48.00	0
-SEEDING (TIMES)	1	32.00	32
-CULTIVATING (TIMES)	2	and the second	0
-MULTING (TIMES)		32.00	0
-IRRIGATING (MONTHS)	· · ·	42.00	0
-CHEMICAL APP (TIMES)		31.00 48.00	0
-RATOONING (TIMES) -HARVESTING (TONS)		79.00	0
-HARVESTING (TONS) -THRESHING (TONS)		30.00	
4) MISCELLANEOUS (5%)	· —,·	30.00	19
47 MISCELLMNEOUS (JA)			17
TOTAL			393
C) NET RETURN (A-B)			545

ECONOMIC BALANCE OF CROP PRODUCTION PER Table J-18(12)

HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(12) MELON

DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	
A) GROSS INCOME -AVERAGE YIELD	(T/HA)	5.20	870.00	4524
	X 17 1017	0.20	0/0.00	100201
B) PRODUCTION COST	: <u>.</u>		· .	
1) FARM INPUT				· ·
-SEED	(KG)	1.60	63.05	101
-UREA	(KG)	130.00	0.92	120
-12-24-12	(KG)	190.00	0.94	179
-15-15-15	(KG)		0.95	· · · O
-INSECTICIDES	(KG)	12.00	49.00	
-FUNGICIDES	(KG)	22.70	47.00	1037
-HERBICIDES	(KG)	3.00	21.18	64
-RODENTICIDES	(KG)		13.16	0
2) LABOR				
-FAMILY LABOR		136.00	2.50	
-HIRED LABOR	(M/D)	31.00	2.50	78
3) MACHINERY				
-SUBSOILING	(TIMES)	· · · · ·	90.00	0
	(TIMES)	1	64.00	64
-HARROWING		3	36.00	108
-FERTILIZING	(TIMES)	·	26.00	0
the second se	(TIMES)	· · · · -	48.00	0
-SEEDING	(TIMES)	· · ·	32.00	0
-CULTIVATING	(TIMES)	2	32.00	64
	(TIMES)		32.00	0
-IRRIGATING (MONTHS)		12-100	0
-CHEMICAL APP	(TIMES)	5	31.00	155
-RATOONING	(TIMES)		~~ • • • • •	0
-HARVESTING	(TONS)	. —		δ
-THRESHING	(TONS)		30.00	0
4) MISCELLANEOUS	(5%)		·	146
TOTAL				3074
C) NET RETURN (A-B)			1450

INCLTARE WITHOUT PROJECT AND PRESENT CONDITION (13) WATER MELON UNIT UNIT UNIT OPTIME CONDITION OPTIME CONDITION A) GROSS INCOME -AVERAGE VIELD (T/HA) 8.00 272.00 2176 B) PRODUCTION COST 1) FARM INPUT -SEED (KG) 1.00 50.05 50 -UREA (KG) 65.00 0.92 60 -12-24-12 (KG) - 0.74 0 -UREA (KG) 5.50 49.00 270 -FEAMILY LABOR (M/D) 113.00 2.50 283 -HIRED LABOR (M/D) 29.00 2.50 73 3) MACHINERY - 90.00 0 -PLOWING (TIMES) - 90.00 0 -PLOWING (TIMES) - 26.00 72 -FAMILY LABOR (M/D) 2.30.0 0 0 <	Table J-18(13)					
DESCRIPTION UNIT Q'TY UNIT PRICE PRICE AMOUNT (LPS) A) GROSS INCOME -AVERAGE YIELD (T/HA) 8.00 272.00 2176 B) PRODUCTION COST 1) FARM INPUT 550 2176 -SEED (KG) 1.00 50.05 50 -UREA (KG) 65.00 0.92 60 -12-24-12 (KG) - 0.94 0 -15-15-15 (KG) 5.50 49.00 270 -FUNGICIDES (KG) - 118 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR - 113.00 2.50 283 -HIRED LABOR (M/D) 29.00 2.50 73 3) MACHINERY - 90.00 0 -SUBSDILING (TIMES) - 90.00 0 -PLOWING (TIMES) - 26.00 0 -FERTILIZING (TIMES) - 26.00 0		HECT	ARE WITHOU	T PROJECT AI	ND PRESENT	CONDITION
DESCRIPTION UNIT Q'TY PRICE AMOUNT (LPS) A) GROSS INCOME -AVERAGE YIELD (T/HA) 8.00 272.00 2176 B) PRODUCTION COST 1) FARM INPUT -SEED (KG) 1.00 50.05 50 -UREA (KG) 65.00 0.92 60 -12-24-12 (KG) -0.94 0 -15-15-15 (KG) 5.50 49.00 270 -FUNGICIDES (KG) 1.40 47.00 66 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR - 13.16 0 -FAMILY LABOR (M/D) 29.00 2.50 73 3) MACHINERY - 90.00 0 -SUBSOILING TIMES) - 90.00 0 -RERTILIZING TIMES) - 26.00 0 -REMINEY - 32.00 0	(13) WATER MELON	نين ا				
DESCRIPTION UNIT Q'TY PRICE AMOUNT (LPS) A) GROSS INCOME -AVERAGE YIELD (T/HA) 8.00 272.00 2176 B) PRODUCTION COST 1) FARM INPUT -SEED (KG) 1.00 50.05 50 -UREA (KG) 65.00 0.92 60 -12-24-12 (KG) -0.94 0 -15-15-15 (KG) 5.50 49.00 270 -FUNGICIDES (KG) 1.40 47.00 66 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR - 13.16 0 -FAMILY LABOR (M/D) 29.00 2.50 73 3) MACHINERY - 90.00 0 -SUBSOILING TIMES) - 90.00 0 -RERTILIZING TIMES) - 26.00 0 -REMINEY - 32.00 0	من هند خط کمه بجد دان هما بده است کمه کمه کمه است است است است است است است	e name name tamp data	کنی کی کہ کہ کہ کہ ایک کی ایک کر ایک		وجنه فبقه احفا ينسو يسو ومرد عنو زعنه ال	41 MA 844
(LPS) (LPS) A) GROSS INCOME -AVERAGE YIELD (T/HA) 8.00 272.00 2176 B) PRODUCTION COST 1) FARM INPUT -SEED (KG) 1.00 50.05 50 -UREA (KG) 65.00 0.92 60 -12-24-12 (KG) - 0.94 0 -15-15-15 (KG) 65.00 0.95 62 -INSECTICIDES (KG) 5.50 49.00 270 -FUNGICIDES (KG) 1.40 47.00 66 -HERBICIDES (KG) - 21.18 0 -RODENTICIDES (KG) - 13.16 0 2) LABOR -FAMILY LABOR (M/D) 113.00 2.50 283 -HIRED LABOR (M/D) 29.00 2.50 73 3) MACHINERY -SUBSOILING (TIMES) - 90.00 0 -PLOWING (TIMES) 1 64.00 64 -HARROWING (TIMES) - 26.00 0 -RIDGING (TIMES) - 48.00 0 -SEEDING (TIMES) - 48.00 0 -SEEDING (TIMES) - 48.00 0 -CULTIVATING (TIMES) - 32.00 0 -RIDGING (TIMES) - 48.00 0 -RIDGING (TIMES) - 48.00 0 -READING (TIMES) - 48.00 0 -READING (TIMES) - 48.00 0 -CULTIVATING (TIMES) - 48.00 0 -READING (TIMES) - 55 TOTAL 55	DESCRIPTION		UNIT	QTY		AMOUNT
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-THRESHING (TONS) - 30.00 0 4) MISCELLANEOUS (5%) 55 TOTAL 1149	-RATOONING		(TIMES)	-	48.00	
4) MISCELLANEOUS (5%) TOTAL 1149				· · ·		
TOTAL 1149				· · · · · · · · · · · · · · · · · · ·	30.00	
		νa	(J/)			
C) NET RETURN (A-B) 1027	TOTAL					1149
	C) NET RETURN	(A-B	>	· · ·		1027
	· · · · · · · · · · · · · · · · · · ·			· · · ·	·	
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				i de la		

Table J-18(14)ECONOMIC BALANCE OF CROP PRODUCTION PER
HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(14) PASTURE/FOREST (CATTLE RAISING)

	IPTION	UNIT		UNIT PRICE (LPS)	
	INCOME			·	
-86	EF	(KG)	130.00	1.63	212
-MI	LK	(L1.)	190.00	0.48	91
	TOTAL				303
B) PRODU	ICTION COST		÷.,		
1) REC	OVERY OF IN	VITIAL	· .		
INU	ESTMENT	*			
	ILTIVATED PA				35**
	TURAL PASTI	JRE (30%)			7**
2) RAI	SING COST BOUR COST	****			37
	(A*B*C)				
· · ·		(HEAD/HA)	2.00		
	B (1	1AN/HEAD)	0.01		
$e^{2\pi i t} = e^{-2\pi i t} e^{-2\pi i t}$		1AN/YEAR)	1850.00		
	TERINARY CO	JST			7
	(A*B)				
		(HEAD)			
AY MIC	CELLANEOUS	PS/HEAD)	3.30		4
97 111.	A A	(0/2/			
	TOTAL				90
		-			
L) NET	RETURN (A-	-8)			213
		and the second			
	NATURAL PA	PASTURE GRA	SSES AND		
	IMPROVED F NATURAL PA CULTIVATED -LAND PF	PASTURE GRA ASTURE. PASTURE	SSES AND		
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY	PASTURE GRA ASTURE. PASTURE REPARATION	ASSES AND	REMAININ	30% IS
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDING -SEED	PASTURE GRA ASTURE. PASTURE REPARATION MACHINERY	ASSES AND	REMAINING LPS/HA LPS/HA LPS/HA	30% 1S 136.00 32.00 72.00
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDING -SEED -FENCES	PASTURE GRA ASTURE. D PASTURE REPARATION MACHINERY 3 BY MACHIN	ASSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA	30% 15 136.00 32.00 72.00 180.00
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDINO -SEED -FENCES -MISCELL	ASTURE GRA ASTURE. PASTURE REPARATION MACHINERY 3 BY MACHIN ANEOUS	ISSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA	30% 1S 136.00 32.00 72.00
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDINO -SEED -FENCES -MISCELL	PASTURE GRA ASTURE. D PASTURE REPARATION MACHINERY 3 BY MACHIN	ISSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA	30% 18 136.00 32.00 72.00 180.00
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDINO -SEED -FENCES -MISCELL (INO	PASTURE GRA ASTURE. PASTURE REPARATION MACHINERY B BY MACHIN ANEOUS CLUDING MAI	ISSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA	30% 15 136.00 32.00 72.00 180.00 84.00
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDINO -SEED -FENCES -MISCELL (INO	PASTURE GRA ASTURE. PASTURE REPARATION MACHINERY 3 BY MACHIN ANEOUS CLUDING MAI	ISSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA	30% 15 136.00 32.00 72.00 180.00
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDINO -SEED -FENCES -MISCELL (INO	PASTURE GRA ASTURE. PASTURE REPARATION MACHINERY 3 BY MACHIN ANEOUS CLUDING MAI	ISSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA	30% 18 136.00 32.00 72.00 180.00 84.00
	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDING -SEED -FENCES -MISCELL (ING -USEFUL ANNUAL RE	PASTURE GRA ASTURE. PASTURE REPARATION MACHINERY 3 BY MACHIN ANEOUS CLUDING MAI COTAL LIFE	ASSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA	30% 15 136.00 32.00 72.00 180.00 84.00
¥*	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDINO -SEED -FENCES -MISCELL (INO -USEFUL ANNUAL RE INITIAL	PASTURE GRA ASTURE. PASTURE REPARATION MACHINERY BY MACHIN ANEOUS CLUDING MAI COTAL LIFE ECOVERY OF INVESTMENT	ASSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA YEARS.	30% 15 136.00 32.00 72.00 180.00 84.00 504.00 10
¥ ¥	IMPROVED F NATURAL PA CULTIVATED -LAND PF BY -SEEDINO -SEED -FENCES -MISCELI (INO -USEFUL ANNUAL RE INITIAL :NATURAL PA	PASTURE GRA ASTURE. PASTURE REPARATION MACHINERY BY MACHIN ANEOUS CLUDING MAI COTAL LIFE ECOVERY OF INVESTMENT	SSES AND	REMAINING LPS/HA LPS/HA LPS/HA LPS/HA LPS/HA YEARS. LPS/HA	30% 1S 136.00 32.00 72.00 180.00 84.00 504.00 10

Table J-19 AGRICULTURAL BENEFIT (WESTERN PLAIN)

Wit
Area Return (ha) (Lp./ha)
3,180 2,378
6,070 2,889
740 2,128
80 1,242
1,050 370
120 317
150 545
1,200 1,450
70 1,027
1
6,830 213

Table J-20 AGRICULTURAL BENEFIT (EASTERN PLAIN - A)

12

-	T STATE	mental	(103Lp.)		-					 	· · · · ·	14,649
	- ·			·	<i>i</i>				-		-	
		Total Return	(103Lp.)		1 1 2		7,894	2,360	3,554	4,101	!	17,909
	With Project	Net Return	(Lp./ha)			l	3,432	1,026	1,545	1, 783	1	
		Area	(ha)		T	1	2,300	2,300	2,300	2,300	ş	
	ject	Total Return	(103Lp.)		2	549	1	L .	l,739	ł	965	3,260
	Without Project	Net Return	(Lp./ha)		1	2,889	1	370	1,242	1	213	
		Area	(ha)		1	190	Ē	20	1,400	I	4,530	
		Crop		andar cane	Estate	Outgrowers	Cotton	Maize	Paddy	Beans	Pasture/Forest	Total

. X

		(Unit: Lps./ha)
Crop	Gross Income	Production Net Cost Return
Sugar cane/1	4,700	1,202 <u>/3</u> 3,498
(Plant cane) (Ratcon cane)		(2,344) (1,217)
Paddy /2	3,065	1,520 1,545
Maize /2	2,205	1,179 1,026
Beans/2	2,800	1,017 1,783
Vegetables /2	5,370	3,807 1,563

 Table J-21
 SUMMARY OF ECONOMIC BALANCE OF CROP

 PRODUCTION IN MIDDLE REACH VALLEYS

 (PROPOSED CONDITION)

Note: /1: Refer to Table J-23

 $\underline{/2}$: Refer to Table J-17

/3: Weighted average of 1-Plant cane, 4-Ratoon cane and 1-Fallow

		(Unit:	Lps./ha)
Crop	Gross	Production	Net
	Income	Cost	Return
Sugar cane/1	2,726	915/3	1,811
Bugut Cane—	51120		1,011
(Plant cane)		(2,255)	
(Ratoon cane)		(830)	
Paddy /2	2,759	1,517	1,242
	•	·	
Maize ²	637	489	148
Sorghum/2	912	595	31.7
Sesame 2	938	393	545
Melon <u>/2</u>	4,524	3,074	1,450
1		0,012	
Pasture 2	303	90	213
· · ·			

Table J-22 SUMMARY OF ECONOMIC BALANCE OF CROP PRODUCTION IN MIDDLE REACH VALLEYS (PRESENT CONDITION)

Note: /1:

Refer to Table J-24

/2: Refer to Table J-18

/3:

Weighted average of 1-Plant cane, 5-Ratoon cane and 1-Fallow

Table J-23(1) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITH PROJECT

(1) SUGAR CANE IN THE SAN JUAN DE FLORES AREA (PLANT CANE)

DESCRIPTION	UNIT	Q′TY	UNIT PRICE (LPS)	AMOUNT (LPS)	
		, na na na 10 10 20 25 25 25 26 27 2	un bun bur Grof gilt and an an an an an		
A) GROSS INCOME -AVERAGE YIELD	(T/HA)	100.00	47.00	4700	N
3) PRODUCTION COST					
1) FARM INPUT					
-SEED	(TON)	6.00	32.50	195	
-UREA	(KG)		0.92	202	1. A.
-12-24-12	(KG)	-	0.94	0	
-15-15-15	(KG)	330.00	0.95	314	
-INSECTICIDES	(KG)	·	47,00	0	
-FUNGICIDES		12.00	47.00	564	
-HERBICIDES	(KG)	4.00	21.18	85	
-RODENTICIDES	(KG)	3.00	13.16	39	1
2) LABOR			1121		
-LABOR IN TOTAL	(M/D)	175.00	2.50	438	•
3) MACHINERY			· · · · ·	·	
-SUBSOILING	(TIMES)	<u> </u>	90.00	90	
-PLOWING	(TIMES)	1	64.00	64	
-HARROWING	(TIMES)	2	36.00	72	
-FERTILIZING	(TIMES)	$\mathbf{T} \in \mathbf{T} \to \mathbf{T}$	26.00	26	
-RIDGING	(TIMES)	i	48.00	48	
-SEEDING	(TIMES)		32.00	0	
-CULTIVATING	(TIMES)	i	32.00	32	
-MULTING	(TIMES)	1	32.00	32	
	MONTHS)		42.00	0	
-CHEMICAL APP	(TIMES)	1	31.00	31	
-RATOONING	(TIMES)		48.00	0	
-HARVESTING	(TONS)		79.00	0	
-THRESHING		-	30.00	0	
4) MISCELLANEOUS	(5%)			112	
TOTAL			· · · ·	2344	
) NET RETURN (A-E		· ·	2	2356	

Table J-23(2)ECONOMIC BALANCE OF CROP PRODUCTIONPER HECTARE WITH PROJECT

(2) SUGAR CANE IN THE SAN JUAN DE FLORES AREA (RATOON CANE)

DESCRIPTION	UNIT	QTTY	UNIT PRICE (LPS)	AMOUNT (LPS)
		المرجب بين من بين من اين نظر علا عد		
A) GROSS INCOME				
-AVERAGE YIELD	(TZHA)	100.00	47.00	470
				÷
B) PRODUCTION COST				
1) FARM INPUT	2 TT C/63 \$	· .	55 85	
-SEED	(TON)		32.50	
-UREA	(KG)	220.00		20:
-12-24-12 -15-15-15	(KG) (KG)		0.94	
-INSECTICIDES	(КС)	330.00	0.95 49.00	
	(KG)			
-FUNGICIDES		4.00	47.00	(8)
-HERBICIDES				
-RODENTICIDES	(86)	3.00	13.16	31
2) LABOR	264265	140 00	2.50	35
-LABOR IN TOTAL		140.00	2.00	
3) MACHINERY -SUBSOILING	TIMES		90.00	1
-PLOWING	(TIMES)		64.00	1
-HARROWING	(TIMES)		36.00	
-FERTILIZING	(TIMES)	1		2
-FERTILIZING	(TIMES)	×	48.00	
-RIDGING -SEEDING	(TIMES)		32.00	
-CULTIVATING		_	32.00	
	(TIMES)	2	32.00	6
-IRRIGATING			42.00	
-CHEMICAL APP		1	31.00	
-RATOONING			48.00	4
		1	79.00	
-HARVESTING -THRESHING	(TONS)	_		-
4) MISCELLANEOUS				50
		•		
TOTAL				121
C) NET RETURN (A-	3)			348:

.

Table J-24(1) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(1) SUGAR CANE IN THE SAN JUAN DE FLORES AREA (PLANT CANE)

DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	AMOUNT (LPS)
مه المراجع ا				میں دیتر ہیں دیتر ہے گئی کار دلک میں سے
A) GROSS INCOME			•	
-AVERAGE YIELD	(T/HA)	58.00	47.00	2726
B) PRODUCTION COST				
1) FARM INPUT				
-SEED	(TON)	10.00	32.50	325
-UREA	(KG)	170.00	0.92	156
-12-24-12	(KG)	***	0.94	0
-15-15-15	(KG)	110.00	0.95	105
-INSECTICIDES	(KG)		49.00	0
-FUNGICIDES	(KG)	12.00	47.00	564
-HERBICIDES	(KG)	4.00	21.18	85
-RODENTICIDES	(KG)	2.00	13.16	
2) LABOR				
-FAMILY LABOR	(MZD)	130.00	2.50	325
-HIRED LABOR	(MZD)	10.00	2.50	25
3) MACHINERY		· · · ·		
-SUBSOILING	(TIMES)	1	90.00	90
-PLOWING	(TIMES)	1	64.00	64
-HARROWING	(TIMES)	2	36.00	72
-FERTILIZING	(TIMES)		26.00	0
-RIDGING	(TIMES)	1 1	48.00	48
-SEEDING	(TIMES)		32.00	0
-CULTIVATING	(TIMES)	· <u>1</u>	32.00	32
-MULTING	(TIMES)	. 1	32.00	32
	(MONTHS)	4	42.00	168
-CHEMICAL APP	(TIMES)	1	31.00	31
-RATOONING	(TIMES)	-	48.00	0
-HARVESTING	(TONS)	·	79.00	0
-THRESHING	(TONS)	Austra .	30.00	0
4) MISCELLANEOUS	(5%)	· · · · ·	· · ·	107
· .	·.			

TOTAL

2255

C) NET RETURN (A-B)

471

Table J-24(2) ECONOMIC BALANCE OF CROP PRODUCTION PER HECTARE WITHOUT PROJECT AND PRESENT CONDITION

(2) SUGAR CANE IN THE SAN JUAN DE FLORES AREA (RATOON CANE)

DESCRIPTION	UNIT	Q'TY	UNIT PRICE (LPS)	AMOUNT (LPS)
				•
A) GROSS INCOME -AVERAGE YIELD	(T/HQ)	58 00	47 00	7774
HVERHOE TIELU	171647	.00.00	47100	2120
B) PRODUCTION COST				
1) FARM INPUT				
-SEED	(TON)	•••••••••••••••••••••••••••••••••••••••	32,50	Û
-UREA	(KG)		0.92	156
-12-24-12	(KG)	170.00	0.94	0
-UREA -12-24-12 -15-15-15	(KG)	110.00	0.95	105
-INSECTICIDES	(KG)		49.00	0
-FUNGICIDES	(KG)	- .	47.00	. 0
-HERBICIDES	(KG)	4.00		85
-RODENTICIDES	(KG)	2.00	13.16	26
2) LABOR			:	
-FAMILY LABOR			2.50	275
-HIRED LABOR	(MZD)		2.50	0
3) MACHINERY	3 mon w 1, 2 Om 20, 1		~~ ~~	-
-SUBSOILING			90.00	0
	(TIMES)	-	64.00	0
-HARROWING -FERTILIZING	and the second		36.00	0
-RIDGING	(TIMES)		48.00	0 0
-SEEDING		·		0
-CULTIVATING		-	32.00	0
-MULTING	(TIMES)	2	32.00	64
-IRRIGATING			42.00	. 0
-CHEMICAL APP		1		31
-RATIONING	(TIMES)	1	48.00	48
-HARVESTING	(TONS)	· · · · ·	79.00	0
-THRESHING	(TONS)		30.00	0
4) MISCELLANEOUS				40
TOTAL				830

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	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·			
			Present			Propose		Incre-
		Area (ha)	Net/1 Return (Lp./ha)	Total Return (103Lp.)	Area (ha)	Net/2 Return (Lp./ha)	Total Return (103Lp.)	mental (103Lp.)
			<u>, </u>	<u>,</u>		<u>(</u>		<u> </u>
1)	San Juan de Flores	5:			· .			
	Sugar cane			· .				
	Irrigated Non-irrigated	1,630 1,020	1,811 1,811	2,952 1,847	2,680	3,498	9,375	
	Maize	30	148	4	Qiet.			1 ¹
	Sub-total			4,803			9,375	4,572
2)	Orocuina:		•					
	(Irrigated)		en e					
	Paddy							
	Wet season Dry season	-			160 160	1,545 1,545	247 247	
i	Maize Beans Vegetables Sorghum Sesame	- 15 10	31.7 545	- - 5 5	150 150 20		154 267 31 -	
	Melon	10	1,450	15				
	(Non-irrigated)		· · ·					
	Maize Livestock	120 175	148 213	18 37				•
	Sub-total			80	·		<u>946</u>	866
3)	Orocuina - Choluted	a			- * -	1		
	Paddy	·	- 					
	Wet season Dry season	350 350	1,242 1,242	435 435	350 350	1,545 1,545	541 541	
	Sub-total	•		870			1,082	212
	Total	·		<u>5,753</u>			11,403	5,650

 Table J-25
 ESTIMATED ECONOMIC RETURN FROM

 AGRICULTURAL PRODUCTION IN MIDDLE REACH

Note: /1:

Refer to Table J-22

/2: Refer to Table J-21

(Thrit. In 106)	Midd	TOTAL Reach 20,600 ha) (3,360 ha)		1				0.88	12 36 2.26	59	26.58 3.96	$\sim \infty$	40 5.	.95	50.15	52.34	54-54	· · · · · · · · · · · · · · · · · · ·	• •	•	54.54 5.65	x F.6) will accrue.	· · · (areas	
	Eastern) (ප				F			. 1	Ĩ		1	5.86	8.06	10.26	12.45 /	14.65/*	•	• •	•	14.65	ainv season (Annex		ruase 1-1 and 1-2	
		Sub-total (16,000 ha)	 l	ł	1	I ::		0.88	12.36	20.59	26.58	32.56	38.54	39.89/3	•	•	•	•	ð -	•	39.89	irrication during rainv season	completed by the b	T-T aspur on on uornodord	
	Western Plain		ł	I.,	1	· 1	ł	1	i	3.59	4.94	6.28	7.63	8.98/2	•	•	•		• •	•	8.98	1	c will not be co		~
		Phase 1-1 (12,400 ha)	1			ł	י ר ו י	0.88/-	12.36	17.00	21.64	26.28	30.91/2	•	•	•	•		•••	•	30.91	The acricultural benefit under	since the reservoir will not be	(39.89 x 12,400/16,000)	sr to Table It. 10
•		Year	1985	1986	1987	1988	1989	066T	1991	1992	1993	1994	1995	966T	1997	1998	1999	•		•	2034	/1: The			12. Dofor
	Year	in Order	r-1	2	ന	4	ഹ	9	1	. 03	00	, OL	11	12	13	14	15	•	• •		50	Note:			

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			Oil-Fired (50 MW Unit	s)
(1)	Installation Cost:	. * . *	\$ 920/kW	
	Foreign portion $\frac{1}{2}$	(80%)	Lp. 1,840	
	Local portion	(29%)	Lp. 368	
	Total		Lp. 2,208/kW	
(2)	Adjustment Factor:	(Hydro)	(Oil-fired)	
	T/L loss	2.0%	2.0%	
	Auxiliary use	0.3%	6.0%	
	Forced outage	0.5%	3,5%	
	Overhaul	2.0%	10.0%	
	Factor:	. *	1,191	
(3)	Capacity Value:		Lp. 2,630/kW	
(4)	Total Capacity Value:			•
	(11.1 MW)		Lp.29,193x10 ³	
		,~ -		лю
(5)	Fixed O & M (2%)		Lp. 52.6/kW	
(6)	Annual Fixed O & M (11.1 MW)		Ip. 584x103	
				· · · ·

Table J-27 CAPACITY VALUE OF ALTERNATIVE POWER

Note: /1 At shadow exchange rate of \$1 = Lp. 2.5

Table J-28 ENERGY VALUE OF ALTERNATIVE POWER

			Oil-Fired (50 MW Units)
1)	Fuel Type:		Bunker C
2)	Fuel Cost:		
:	Financial	а. ¹	\$ 27.18/bbl
	Economic /1		Lp. 65.95/bbl
3)	Estimated Efficiency:	· .	31%
4)	Heat Value:		2,774 Kcal (11,000 Btu)
5)	Gravity of Fuel:		0,905
6)	Calorific Value:		10,600 Kcal/kg
. 7)	Fuel Consumption=(4)/(5)/	′ (6)	0.2892 1/kWh
8)	Fuel Cost = (2)x(7)/159 1	•	Ip.1,236/kWh
9)	Adjustment Factor:		
•	e da estar de presión	(Hydro)	(Oil-fired)
	T/L loss	2.0%	2.0%
	Auxiliary use	0.38	6.0%
	Factor		1,061
10)	Energy Value = $(8) - (9)$		Lp. 0.1311/kWh
11)	Annual Energy Value (53.6		Lp. $7,023 \times 10^3$
12)	Variable O & M		Lp. 0.0100/kWh
13)	Annual Valuable O & M (53	3.6 GWh)	Lp. 536x10 ³

Note: <u>/1</u>: At shadow exchange rate of 1 = Lp. 2.5

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.

	Year		Capacity Value <u>/1</u>	Energy Value <u>/2</u>	Fixed O&M /3	Variable O&M <u>/4</u>	<u>, 103)</u> Total
1	1987		1,433				1,433
2	1988		8,600				8,600
3	1989		12,900				12,900
4	1990		5,734				5,734
5	1991	• .		7,023	584	536	8,143
6	1992			7,023	584	536	8,143
: 25	2011	· · .		: 7,023	: 584	536	8,143
26	2012		1,290	• • • •	•	•	1,290
27	2013		7,740	• • •	•	• •	7,740
28	2014	w. ¹	11,610	•	•		11,610
29	2015		5,160	•	•	•	5,160
30	2016		· ·	7,023	584	536	8,143
31	2017	· .		•	•	•	•
50				7,023	584	536	8,143

Table J-29 FLOW OF ECONOMIC POWER BENEFIT

/2: Refer to Table J-28, para (11)

<u>/3</u>: Refer to Table J-27, para (6)

/4: Refer to Table J-28, para (13)

	Area or Number (ha) or (No.)	Net Return (Lp./ha)	Amount (Lp.103)
Upland field			
Maize	220	148	. 33
Sorghum	60	48	3
Pasture	330	21.3	70
Forest	1,590	110	175
Others /1	250	-	-
Sub-total	2,450	·	281
Houses	100	1,000	100
Total	n an	- -	381

Table J-30 PRODUCTION FOREGONE IN RESERVOIR AREA

Note: /1: Water surface, river beach, etc.

Xear Investment & Replacement Cost Dam & Four Station and Reach Point Station and Reach Point 1985 Station and Reach Point 1986 5.97 1.96 Point 1986 5.97 1.96 Point 1986 5.97 3.34 Point 1991 75.14 1.96 1.96 1992 5.97 3.34 0 1992 5.126 1.96 0 1993 85.1 28.70 1.96 0 1993 85.1 1.96 0 0 1994 15.23 1.96 1.96 0 1999 21.26 - 0 0 1999 15.23 10.29 - 0 1999 2013 10.29 - 0 2014 - - 0 0 0 2015 - - -	bst Middle tion Reach Area		•	Economi	Economic Benefit		
Dam & Fower Middle Dam & Station and Reach Power Itrigation System Area Station 28.70 1.96 - 5.97 - - 5.97 - - 5.97 - - 8.51 1.96 - 75.14 1.96 - 75.14 1.96 - 75.14 1.96 - 75.14 1.96 - 75.14 1.96 - 75.14 1.96 - 75.14 1.96 - 75.14 1.96 - 75.14 0.20 75.13 - 0.20 15.23 - 0.20 15.23 - 0.20 15.23 - 0.20 15.23 - 0.20 10.29 - 0.20 10.29 - 0.20 10.20 - 0.20 10.20 - 0.20 10.20 - 0.20 10.20 - 0.20 10.20 - 0.20 10.20 - 0.20 10.20<							
28.55 28.57 28.55 28.55 28.55 28.55 28.55 28.55 28.55 2.53 2.5		Total	Irrigation Benefit	Power Benefit	Miádle Reach Area	Negative Benefit	Total
20.20 20			/3	/4	. ()	/5	
28.70 28.70 28.70 28.73 28.70 28.73 28.73 28.73 29.75 20.20 20		8.57	1	ļΫ.	ļ	1	
28:70 55:14 55:14 55:55 55	I	5.97	1	1	1	1	
25.14 88338 885.38 85.550 85.500 85.500 85.500 85.500 85.500 85.500 85.500 85.500 85.500 85.500	•	28,70		1.43	1		1.43
88.38 6.2.50 8.2.50 8.2.51 8.2.51 8.2.51 8.2.52 8.2.52 8.2.52 9.2.52 9.52		77.10	. 1	8.60	I,	-0.04	8.56
2022 202 202 202 202 202 202 202 202 20		91.72	 1	12.90	1 	-0	12.86
8.51 7.21 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.23 15.20 15		66.24	0.88	5.73	1	8. <mark>0</mark> .	6.23
7.21 21.26 15.23 0.20 	0	10.37	12.36	8.14	2.26	-0.38	22.38
21.26 - 0.20 - - 0.20 </td <td></td> <td>9.52</td> <td>20.59</td> <td>8.14</td> <td>3.11</td> <td>0,38</td> <td>31.46</td>		9.52	20.59	8.14	3.11	0,38	31.46
15.23 0.20 	0	23.57	26.58	8.14	3.96	-0.38	38.30
10.20 10	0	L7.54	32.56	8.14	4.81	-0.38	45.1
10.20 10		3,06	44.40	8.14	5.65	-0.38	57.8
10.20 10	0	3.06	47.95	8.14	5.65	-0.38	61.3
10.20 10.29 10.29 10.20 2.07 1 1 1 0.20 2.07 1 1 1 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	· ·	3-06	50.15	8.14	5.65	9- 9	63.5
10.20 10	0	3,06	52.34	8.14	5,65	80.0	65.7
10.29 10.29 10.20 10	2 0.14	3.06	54.54	8.14	5.65	-0.38	67.95
10.29 10.29 2.07 0.20 1. 0.20 0.20 0.20 1. 0.20 0.	•	•	•	•	•	•	Ţ
10.29 10.29 2.07 0.20 0.20 10.20 0.20 1 0.20	•••	•••	••	••	• •	••	
10.29 10.29 2.07 0.20 1. 0.20 1. 0.20 0.20 1. 0.20	0	3.06	54.54	8.14	5,65	-0.38	67.9
10.29 2.07 0.20 0.20 0.20 0.20 0.20		3.06	54.54	1.29	5.65	-0.38	61.1(
0.20	2 0.14	15.42	54.54	7.74	5.65	-0.38	67.55
0.20	0	3,06	54.54	11.61	5,65	-0.38	71.4
0.20 0.20		3.06	54.54	5.16	5.65	-0.33	64.9
. 0.20		3.06	54.54	8.14	5.65	-0.38	61.9
		3.06	54.54	8.14	5.65	-0.38	61.9
1.19 - 0.20	0.1	4.25	54.54	8.14	5.65	-0.38	67.9
.20	0	3,06	54.54	8.14	5.65	-0.38	67.95
••	••	••	• •	•••	•		÷.
				•		•	
2034 - 0.20 2.72	0.14	3.06	54.54	8.14	5 65	-0.38	67.95

ECONOMIC COST AND BENEFIT FLOW

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Table J-31(1)

· . 		Table J-31(2)	-31(2)	ECONOMIC	COST	ID BEINEFIT	щ	e et	· · ·	•			
•			•	(FIRST	AGE	DEVELOPMENT:		16,000 HA)					
											(Unit: I	Lp.100)	
			Economic	nomic Cost					Economi	Economic Benefit	Ļ		
үеаг		Investment & Replacement	nent Cost		0 & M Cost								
in Order	Year	Dam & Power Station and	Middle Reach	Dem 5 Power	Irrigation Svstem	Middle Reach	Total	Irrigation Benefit	Power Benefit	Middle Reach	Negative Benefit	Total	
		Irrigation System	Area	Station		Area				Area			
•		J J	킨	•				2	<u>୧</u>	2	/4		•
r-f	1985	8.57	I	Ļ	, 1	ļ	8.57	1	1	ľ	1	ł	
C)	1986	5.97	1.	1	1	1.	5.97	I	ł]	1	.1	
m	1987	28.70	Ŀ	. 1	1.	İ	28.70	1	1.43	I.	1	1.43	
, T	1988	75.14	1.96	I	1	, 1	77.10	1	8.60	1	-0.04	8.56	
ഗ	1989	87.74	3, 34	ł	1	J	91.18	•	12.90	1	-0.04	12.86	
φ	0661	61.69	3.34	ľ	0.40	1	65.43	0.88	5.73	. ! .	-0.38	6.23	
5	1661	7.08	ł	0.20	• •	0.14	8 94	12.36	8.14	2.26	-0.38	22, 38	
• 00	1 992	I	ŀ	0.20	1 07		100	20 59		1 2 2	82.0-	21 46	
) a	2001	I	I			• •		26 50				00.00	
n c		t	I		•	 	10.0		#	0.0			
	1274		i	0.20		0.14	15.2	34.30	0.14 5	12° 5'	ы. 2 2	40.LJ	
	1995 1		ł	0.20	I.97	0.14	2.31	38.54	8.14	5,65	-0.38	51.95	
12	1996	I	ł	0.20	1.97	0.14	2.31	39.89	8.14	5.65	-0.38	53.30	
	•		•	•	•	•	•	•	•	•	•		
	•	•				•	•	.•		•	•	•	
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				•	•		, ,	• .			, ·		
•	•	•	•	•	•	•	•	•	•	•	•		
27	2011	i	I	0.20	1.97	0.14	2.3L	39.89	8.14	5.65	-0.38	53,30	
28	2012		1	0.20	1.97	0.14	2.31	39.89	1,29	ບ ຸ ຄິງ	-0.38	46.45	
29	2013	10.29	2.07	0.20	1.97	0.14	14.67	39.89	7.74	5.65	-0.38	52,90	
õ	2014	1	ı	0.20	1.97	0.14	2.31	39.89	19-11	5.65	-0,38	56.77	
ਲ	2015	Ţ	1	0.20	1.97	0.14	2.31	39.89	5,16	5.65	-0.38	50.32	:
32	2016	I	1	0.20	1.97	0.14	2,31	39.89	8.14	5.65	-0.38	53.30	
•	•	•	•	•	•	•	•		•	•	•	•	
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÷		•	٠		•	•	•	•	•	.*	٠	•	
•	•		e	•	•	•	•	•	•	•	•	•	
50	2034	ŧ	1	0.20	1.97	0.14	2.31	39°83	8.14	5.65	-0.38	53.30	
												:,	
EIRR:	13.7%			. •	-								
Nore:		sfer to Table J-11(2)	/2: F	Refer to Ta	to Table J-26	/3: F	lefer to	Refer to Table J-29					
	4: R	Refer to Table J-30)								

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-31 (3) ECONOMIC

ECONOMIC COST AND BENEFIT FLOW (FIRST STACE DEVELOPMENT, PHASE 1-1: 12,400 HA) ۰.

Table J-31(3)

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Middle Tan 6 Trangation Middle Trangation Middle Near Middle Nea Nea	Middle Tan 4 Irrigation Middle Niddle Nidd	1.1. The second s		•	rrigation Benefit	Power Renefit	Middle Reach	Negative	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(1) (2) <t< th=""><th>$(\frac{1}{2}, \frac{1}{2}, \frac{1}{$</th><th></th><th></th><th>8 57 5 97 5 97 5 66 5 65 5 66 1 91 1 91</th><th><u>6</u>1, 1, 1</th><th></th><th>Area</th><th>בנובדדר</th><th>Total</th></t<>	$(\frac{1}{2}, \frac{1}{2}, \frac{1}{$			8 57 5 97 5 97 5 66 5 65 5 66 1 91 1 91	<u>6</u> 1, 1, 1		Area	בנובדדר	Total
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	8.57 -	8.57 - - 8.57 - - <t< td=""><td></td><td>141-01 ul</td><td>8 57 5 66 1 91 91 91 91 91 91 91 91 91 91 91 91 91 9</td><td>111</td><td>/4</td><td>. /3</td><td>. /2</td><td></td></t<>		141-01 ul	8 57 5 66 1 91 91 91 91 91 91 91 91 91 91 91 91 91 9	111	/4	. /3	. /2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5.97 - - 5.97 - - <t< td=""><td>•</td><td>(41-0).01</td><td>5.97 5.65 0.025 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0</td><td>11</td><td>1</td><td>8</td><td>1</td><td>•</td></t<>	•	(41-0).01	5.97 5.65 0.025 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	11	1	8	1	•
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28.46 - 1.43 - 0.04 8.6.91 3.34 - 2.5.55 5 8 8.46 - 1.43 - 0.04 8.6.91 3.34 - 2.20 1.57 0.14 1.91 12.36 8.14 2.25 -0.38 4.6.70 3.34 - 2.20 1.57 0.14 1.91 21.60 8.14 2.25 -0.38 - 0.20 1.57 0.14 1.91 25.64 8.14 2.96 -0.38 - 0.20 1.57 0.14 1.91 20.91 8.14 5.65 -0.38 - 0.20 1.51 0.14 1.91	28.46 - - - 28.46 -	•		1.91 1.91 1.91 1.91	I	ť	1	1	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	373.69 1.96 - - 75.65 - 8.60 - -0.04 46.70 3.34 - - - 90.35 1.91 12.36 -0.33 46.70 3.34 - - - 90.35 0.14 1.91 17.06 8.14 2.36 -0.38 - - 0.20 11.57 0.14 1.91 12.06 8.14 2.96 - -0.38 - - - 0.20 11.57 0.14 1.91 21.06 8.14 2.96 - -0.38 - - 0.20 11.57 0.14 1.91 20.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - - - - 0.20 1.57 0.14 1.91 30.91 1.16 5.65 -0.38 - - - - - - - - - <t< td=""><td>373.69 1.96 - - 75.65 - 8.60 - -0.04 46.70 3.34 - - 90.35 1.91 17.36 8.14 2.06 - -0.38 46.70 3.34 - - 90.35 0.14 1.91 17.06 8.14 2.16 - -0.38 - - 0.20 1.57 0.14 1.91 17.06 8.14 2.06 - -0.38 - - 0.20 1.57 0.14 1.91 21.66 8.14 2.06 - 0.38 - - - 0.20 1.57 0.14 1.91 20.91 8.14 4.66 - 0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - - 0.20 1.57 0.14 1.91 30.91 1.66 - - - - - 30.91 1.64 5.65 - 30.38 1.28 <td< td=""><td>•</td><td>1-01.01</td><td>5.65 0.25 0.04 1.91</td><td></td><td>1.43</td><td>, I,</td><td>•1</td><td>1.43</td></td<></td></t<>	373.69 1.96 - - 75.65 - 8.60 - -0.04 46.70 3.34 - - 90.35 1.91 17.36 8.14 2.06 - -0.38 46.70 3.34 - - 90.35 0.14 1.91 17.06 8.14 2.16 - -0.38 - - 0.20 1.57 0.14 1.91 17.06 8.14 2.06 - -0.38 - - 0.20 1.57 0.14 1.91 21.66 8.14 2.06 - 0.38 - - - 0.20 1.57 0.14 1.91 20.91 8.14 4.66 - 0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - - 0.20 1.57 0.14 1.91 30.91 1.66 - - - - - 30.91 1.64 5.65 - 30.38 1.28 <td< td=""><td>•</td><td>1-01.01</td><td>5.65 0.25 0.04 1.91</td><td></td><td>1.43</td><td>, I,</td><td>•1</td><td>1.43</td></td<>	•	1-01.01	5.65 0.25 0.04 1.91		1.43	, I,	•1	1.43
	86.91 3.34 $ 90.25$ $ 1290$ $ -0.04$ 46.70 3.34 $ -$	86.91 3.34 - - - 90.25 - 1290 - -0.04 46.70 3.34 - - - 90.25 0.14 1.91 12.36 8.14 3.21 -0.38 - - 0.20 1.57 0.14 1.91 12.36 8.14 3.26 11 1 1	•	01.01	0 25 1 91	1	8,60	1	10.0	8.56
	46.70 3.34 - - 50.04 0.38 5.73 - -0.38 - - 0.20 1.57 0.14 1.91 17.06 8.14 3.26 -0.38 - - 0.20 1.57 0.14 1.91 17.06 8.14 3.16 -0.38 - - 0.20 1.57 0.14 1.91 26.28 8.14 3.16 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - - - - 0.20 1.57 0.14 1.91 30.91 11.65 5.65 -0.38 - - - <td< td=""><td>46.70 3.34 - - 50.04 0.38 5.73 - -0.38 - - 0.20 1.57 0.14 1.91 17.06 8.14 3.15 -0.38 - - 0.20 1.57 0.14 1.91 17.06 8.14 3.16 -0.38 - - 0.20 1.57 0.14 1.91 20.21 8.14 3.16 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.9</td><td>• .</td><td></td><td>1.91</td><td>i.</td><td>12.90</td><td>1</td><td>-0.04</td><td>12.86</td></td<>	46.70 3.34 - - 50.04 0.38 5.73 - -0.38 - - 0.20 1.57 0.14 1.91 17.06 8.14 3.15 -0.38 - - 0.20 1.57 0.14 1.91 17.06 8.14 3.16 -0.38 - - 0.20 1.57 0.14 1.91 20.21 8.14 3.16 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.9	• .		1.91	i.	12.90	1	-0.04	12.86
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) 21.1 0.20 1.57 0.14 1.91 12.36 8.14 2.26 -0.38 1 1 0.20 1.57 0.14 1.91 21.66 -0.38 1 0.20 1.57 0.14 1.91 26.26 8.14 3.16 -0.38 1 0.20 1.57 0.14 1.91 30.91 8.14 3.16 -0.38 1 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 1 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 1 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 1 1 1.67 0.14 1.91 30.91 7.79 5.65 -0.38 1 1 1.91 30.91 1.91 30.91 7.79 5.65 -0.38 1 1 1.91 30.91 1.91 30.91 1.73 5.65 -0.38 1 1	Refer to Table J-11(3) 21 0.20 1.57 0.14 1.91 12.36 8.14 2.26 -0.38 1 1 0.20 1.57 0.14 1.91 26.26 8.14 3.11 -0.38 1 1 0.20 1.57 0.14 1.91 26.26 8.14 3.11 -0.38 1 <td>• .</td> <td></td> <td>1.91</td> <td>0.38</td> <td>5.73</td> <td>i I</td> <td>-0,38</td> <td>6.23</td>	• .		1.91	0.38	5.73	i I	-0,38	6.23
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) /2: 0.20 1.57 0.14 1.91 17.00 8:14 3.11 -0.38 - - 0.20 1.57 0.14 1.91 20.56 8:14 3.96 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8:14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8:14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8:14 5.65 -0.38 - - - 0.20 1.57 0.14 1.91 30.91 1.74 5.65 -0.38 10.23 2.07 0.20 1.57 0.14 1.91 30.91 1.74 5.65 -0.38 10.23 2.07 0.20 1.57 0.14 1.91 30.91 1.74 5.65 -0.38 - - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 -	Refer to Table J-11(3) 2:1.0 1:57 0:14 1:91 3:1.1 -0.38 1 - - 0.20 1:57 0.14 1:91 30.91 8:1.4 3:96 -0.38 - - 0.20 1:57 0.14 1:91 30.91 8:1.4 5:65 -0.38 - - 0.20 1:57 0.14 1:91 30.91 8:1.4 5:65 -0.38 - - 0.20 1:57 0.14 1:91 30.91 8:1.4 5:65 -0.38 1 - - - - 0.20 1:57 0.14 1:91 30.91 1:1.61 5:65 -0.38 10.23 2.07 0.20 1:57 0.14 1:91 30.91 1:1.61 5:65 -0.38 10.23 2.07 0.20 1:57 0.14 1:91 30.91 1:1.61 5:65 -0.38 10.23 2.07 0.20 1:57 0.14 1:91 30.91 7:1.4 5:65 -0.38 10.1	•		1 01	12.36	8.14	2.26	-0.38	22.38
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) /2: Refer to Table J-11(2) 0.2: Refer to Table J-205 0.2: Refer to Table J-205<	Refer to Table J-11(3) 21. 0.14 1.91 21.64 8.14 3.96 -0.38 1 1 1.91 21.61 8.14 1.91 26.28 8.14 4.65 -0.38 1 1 1.91 30.91 8.14 5.65 -0.38 1 1 1.91 30.91 8.14 5.65 -0.38 1 1 1 1.91 30.91 8.14 5.65 -0.38 1 1 1 1.91 30.91 1.121 30.91 8.14 5.65 -0.38 1 1 1 1.91 30.91 1.124 5.65 -0.38 1 1 1 30.91 1.129 30.91 1.126 5.65 -0.38 1 1 2.07 0.14 1.91 30.91 11.61 5.65 -0.38 1 1 2.0 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 1 1 2.0 1.57 0.14 1.91 30.91			1.71	17.00	8.14	3.11	-0-38	27.87
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) /2: 0.20 1.57 0.14 1.91 26.28 8.14 4.81 -0.38 1 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 1 - - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 1 - <td>Refer to Table J-11(3) 21. 20.14 1.91 26.28 8.14 4.81 -0.38 1 1 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 1 1 1 1 1 1 30.91 8.14 5.65 -0.38 1 1 1 1 1 1 30.91 8.14 5.65 -0.38 1 1 1 1 1 1 30.91 8.14 5.65 -0.38 1 1 1 1 1 30.91 1.91 30.91 1.26 -0.38 1 1 1 1 1 30.91 1.29 5.65 -0.38 1 1 1 1 1 30.91 1.16 5.65 -0.38 1 1 1 1 1 1 1 30.91 1.16 5.65 -0.38 1 1 1 1 1 1 1 30.91 1.16 5.65 -0.38</td> <td></td> <td></td> <td>1.91</td> <td>21.64</td> <td>8. I.4</td> <td>3.96</td> <td>-0.38</td> <td>33.36</td>	Refer to Table J-11(3) 21. 20.14 1.91 26.28 8.14 4.81 -0.38 1 1 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 1 1 1 1 1 1 30.91 8.14 5.65 -0.38 1 1 1 1 1 1 30.91 8.14 5.65 -0.38 1 1 1 1 1 1 30.91 8.14 5.65 -0.38 1 1 1 1 1 30.91 1.91 30.91 1.26 -0.38 1 1 1 1 1 30.91 1.29 5.65 -0.38 1 1 1 1 1 30.91 1.16 5.65 -0.38 1 1 1 1 1 1 1 30.91 1.16 5.65 -0.38 1 1 1 1 1 1 1 30.91 1.16 5.65 -0.38			1.91	21.64	8. I.4	3.96	-0.38	33.36
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) /21 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 1 1 1 1 1 1 1 1 1 5.65 -0.38 1 1 1 1 1 1 1 1 1 5.65 -0.38 1	Refer to Table J-11(3) /2: Refer to Table J-11(2) /2: Refer to Table J-11(2) /2: Refer to Table J-12(2) /2: Refer to Table J-26(2) /2: Refer to Table J-26(2			1.91	26.28	8.14	4.81	80 0	38.85
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) /2: 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 10 1 1 1 1 1 1 1 5.65 -0.38 10 1 1 1 1 1 1 1 1 5.65 -0.38 10 1 1 1 1 1 1 1 1 2 0.38 1<	Refer to Table J-11(3) [2: Refer to Table J-11(3) [2: Refer to Table J-11(2) [3: Refer to Table J-26 -0.38 Refer to Table J-11(3) [2: Refer to Table J-11(2) [3: Refer to Table J-26 -0.38 -0.38	-		191	10 01	4			44 25
10.23 2.07 0.16 1.91 30.91 8.14 5.65 -0.38 10.23 2.07 0.20 1.57 0.14 1.91 30.91 1.29 5.65 -0.38 10.23 2.07 0.20 1.57 0.14 1.91 30.91 1.29 5.65 -0.38 10.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 10.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 10.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 10.20 1.57 0.14 1.91 30.91 8.16 5.65 -0.38 11.61 5.01 1.57 0.14 1.91 30.91 8.16 5.65 -0.38 11.91 30.91 8.14 5.65 -0.38 -0.38 -0.38 -0.38 11.91 30.91 8.14 5.65 -0.38 -0.38 -0.38 -0.38 -0.38 11.91 30.91 8.14 5.6	Refer to Table J-11(3) $/2$: Refer to Table J-11(2) $/3$: Refer to Table J-26 $/3$: Refer to Table J-11(3) $/2$: Refer to Table J-26 $/3$: Refer to Table J-36 $/3$: Refer to	Refer to Table J-11(3) $/2$: Refer to Table J-11(2) $/3$: Refer to Table J-26 $/3$: Refer to Ta		r •		10.00		р Ч С		44 27
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) $/2$: Refer to Table J-11(2) $/2$: Refer to Table J-16(2) $/2$: Refer to Table J-16(2) $/2$: Refer to Table J-16(2) $/2$: Refer to Table J-26(2) $/2$: Refer to Table	Refer to Table J-11(3) /2: 0.20 1.57 0.14 1.91 30.91 11.29 5.65 -0.38 10.23 2.07 0.20 1.57 0.14 1.91 30.91 17.45 5.65 -0.38 11.29 2.07 0.20 1.57 0.14 1.91 30.91 17.45 5.65 -0.38 11.27 0.20 1.57 0.14 1.91 30.91 11.67 5.65 -0.38 11.29 2.07 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 11.11 2.0 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 11.11 30.91 11.61 30.91 11.61 5.65 -0.38 11.11 2.0 1.57 0.14 1.91 30.91 11.65 -0.38 11.11 2.0 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 11.11 2.0 1.57 0.14 1.91 30.91 8.14 5.65		•		12.00		2	0 • •	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-11(3) /2: Refer to Table J-26	Refer to Table J-11(3) 2 : Refer to Table J-11(2) 2 : Refer to Table J-11(3) 2 : Refer to Table J-11(3) 2 : Refer to Table J-11(2) 2 : Refer to Table J-12(2) 2 : Refer to Table J-11(2) 2 : Refer to Table J-26	•		•	•	•	•	•	•
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-ll(3) $/2$: Refer to Table J-ll(2) $/3$: Refer to Table J-ll(3) $/2$: Refer to Table J-ll(2) $/3$: Refer to Table J-ll(3) $/2$: Refer to Table J-ll(2) $/3$: Refer to Table J-ll(3) $/2$: Refer to Table J-ll(2) $/3$: Refer to Table J-ll(3) $/2$: Refer to Table J-ll(2) $/3$: Refer to Table J-ll(3) $/2$: Refer to Table J-ll(3) $/3$: Refer to Table J-ll(3) $/3$: Refer to Table J-l26 $/3$: Refer to Table J-ll(3) $/3$: Refer to Table J-l26 $/3$: Refer to Table J-l1(3) $/3$: Refer to Table J-l26 $/3$:	Refer to Table J-11(3) /2: Refer to Table J-11(2) /2: Refer to Table J-26 $/2: 0.38$ 10.23 2.07 0.20 1.57 0.14 1.91 30.91 1.74 5.65 -0.38 10.23 2.07 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 0.21 0.20 1.57 0.14 1.91 30.91 0.21 0.20 1.57 0.20 1.57 0.20 1.55 -0.38 0.20 0.20 0.20 1.57 0.20 1.57 0.20 1.57 0.20 1.57 0.20 1.57 0.20 1.55 0.20 $0.$	•	•	•	•	•	•	•	•
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) $/2$: Refer to Table J-11(2) $/3$: Refer to Table J-11(2) $/2$: Refer to Table J-11(2) $/3$: Refer to Table J-11(2) $/3$: Refer to Table J-12(2) $/3$: Refer to Table J-12(2) $/3$: Refer to Table J-26 $/$	Refer to Table J-11(3) $/2$: Refer to Table J-11(2) $/2$: Refer to Table J-11(2) $/2$: Refer to Table J-11(2) $/2$: Refer to Table J-12(2) $/2$: Refer to Table J-12(2) $/2$: Refer to Table J-12(2) $/2$: Refer to Table J-26 $/2$ $/2$: Refer to Table J-26 $/2$: Refer to Table J-26 $/2$: Refer to Table J-26 $/2$	•	•	•	•	•	•	•	•
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) $/2$: Refer to Table J-11(2) $/3$: Refer to Table J-26	Refer to Table J-11(3) /2: Refer to Table J-11(2) /2: Refer to Table J-26 J-11(2) /2: Refer to Table J-26 J-26 J-26 J-26 J-26 J-26 J-26 J-26	•	•.	•	•	•	•	. •	•
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-11(3) /2: Refer to Table J-11(2) /2: Refer to Table J-26	Refer to Table J-11(3) /2: Refer to Table J-11(2) /2: Refer to Table J-11(3) /2: Refer to Table J-11(2) /2: Refer to Table J-11(2) /2: Refer to Table J-26			10 1	20 01	8 J A	и У И	36 UT	44 37
10.23 2.07 0.20 1.57 0.14 3.98 30.91 7.74 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 17.4 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 5.16 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - </td <td>Io.23 2.07 0.20 1.57 0.14 3.98 30.91 7.74 5.65 -0.38 5 - - - 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 5 - - 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 6 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 6 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 7 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 6 - - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 7 -</td> <td>Refer to Table J-11(3) /2: Refer to Table J-11(2) /2: A_{11} 3.98 30.91 7.74 5.65 -0.38 1<td></td><td></td><td></td><td>10 05</td><td></td><td>5 4 5 4</td><td></td><td>14 15</td></td>	Io.23 2.07 0.20 1.57 0.14 3.98 30.91 7.74 5.65 -0.38 5 - - - 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 5 - - 0.20 1.57 0.14 1.91 30.91 11.61 5.65 -0.38 6 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 6 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 7 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 6 - - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 7 -	Refer to Table J-11(3) /2: Refer to Table J-11(2) /2: A_{11} 3.98 30.91 7.74 5.65 -0.38 1 <td></td> <td></td> <td></td> <td>10 05</td> <td></td> <td>5 4 5 4</td> <td></td> <td>14 15</td>				10 05		5 4 5 4		14 15
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0.20 1.57 0.14 1.91 30.91 5.16 5.65 -0.38 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38	5 - - 0.20 1.57 0.14 1.91 30.91 5.16 5.65 -0.38 6 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 \cdot	8 - - 0.20 1.57 0.14 1.91 30.91 5.16 5.65 -0.38 6 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 7 0 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 7 -			1.91	30.91	11.61	5.65	-0.38	47.79
0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38	5 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 	5 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 4 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 4 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 8 - - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to 1.91 30.91 8.14 5.65 -0.38 Refer to 1.91 30.91 8.14 5.65 -0.38			1.91	30.91	5,16	5,65	-0.38	41,34
- 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Fefer to Table J-11(2) /2: Refer to Table J-26			1.91	30.91	8.14	5.65	-0.38	44.32
- 0.20 I.57 0.14 1.91 30.91 8.14 5.65 -0.38	4 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-26	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-26								
- 0.20 I.57 0.14 1.91 30.91 8.14 5.65 -0.38	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-26	4 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-26	•	•	•	•	•	•		•
- 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-26	4 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-26		•	•	•	•		•	•
- 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-26	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-26	•	•	•	•		•		
– 0.20 1.57 0.14 1.91 30.91 8.14 5.65 –0.38	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-26	4 - 0.20 1.57 0.14 1.91 30.91 8.14 5.65 -0.38 Refer to Table J-11(3) /2: Refer to Table J-11(2) /3: Refer to Table J-26	•	•	•					
	Refer to Table J-11 (3) /2: Refer to Table J-11 (2) /3: Refer to Table J-26	Refer to Table J-11(3) $/2$: Refer to Table J-11(2) $/3$: Refer to Table J-26	.57	0.14	1.91	30.91	8.14	5 65	-0.38	44.32
かった。1999年4月17日には1999年1月1日には、1999年1月1日には、1999年1月1日に、1999年1月1日には、1999年1月1日には、1999年1月1日には、1999年1月1日には、1999年1月1日には 1999年1日には、1999年1日には、1999年1日には、1999年1日には、1999年1日には、1999年1日には、1999年1日には、1999年1日には、1999年1日には、1999年1日には、1999年1日には、1	Refer to Table J-11(3) /2: Refer to Table J-11(2) /3:	Refer to Table J-11(3) /2: Refer to Table J-11(2) /3:							1.	
	$\sqrt{2}$: Refer to Table J-11(2) $\sqrt{3}$:	Refer to Table J-11(3) /2: Refer to Table J-11(2) /3:		•	4 4 5 7		· · · · · · · · · · · · · · · · · · ·			
	Refer to Table J-11(3) $/2$: Refer to Table J-11(2) $/3$:	Refer to Table J-11(3) /2: Refer to Table J-11(2) /3:	•	 		:	-			
			Table J-11(2)	/3:	Refer to	Table J-26	10	•		· · ·
	Refer to	Table J-29 /5: Refer to		1.57 1.57 1.57 1.57 1.57 1.57 1.57 1.5		0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	0.14 0.14 0.14 0.14 0.14 0.14 0.14	0.14 1.91 30.91 0.14 1.91 30.91 	0.14 1.91 30.91 8.14 5 0.14 1.91 30.91 1.29 5 0.14 1.91 30.91 1.29 5 0.14 1.91 30.91 1.29 5 0.14 1.91 30.91 1.29 5 0.14 1.91 30.91 11.61 5.16 5 0.14 1.91 30.91 8.14 5 5 0.14 1.91 30.91 8.14 5 5 0.14 1.91 30.91 8.14 5 5 0.14 1.91 30.91 8.14 5 5 0.14 1.91 30.91 8.14 5 5 	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

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Table J-32(1) FINANCIAL COST AND BENEFIT FLOW (IRRIGATION PLAN: 20,600 HA)

		an a				(Unit: L	p.106)
Year		Financial	Cost		Fin	ancial Benefi	t
in	Year	Investment and	0 & M	Total	Net	Domestic	Total
Order		Replace. Cost	Cost	TOTAL	Return	Consumption	10041
		/1	/2		/3		
1	1985	7.62		7.62			
2	1986	5.72		5.72	—		
3	1987	27.62		27.62			
4	1988	78.56		78.56		•	
5	1989	86.27		86.27			
6	1990	71.41	0.46	71.87	1.07		1.07
7	1991	10.27	1.82	12.09	15.79	-4.92	10.87
8	1992	9.20	2.59	11.79	27.61	-5.17	22.44
9	1993	28.41	2.71	31.12	37.43	-5.43	32.00
10	1994	21.45	2.85	24.30	48.15	-5.70	42.45
11	1995	-	3.89	3.89	65.66	~5.70	59.96
12	1996	· · ·	3.89		70.92	-5.70	65.22
13	1997		3.89	3.89	74.16	-5.70	68,46
14	1998	-	3.89	3.89	77.40	-5.70	71,70
15	1999		3,89	3.89	80.66	-5.70	74.96
•	•	8	• •	•	•	•	•
•		• .	•	•	•	•	•
•	•	•	•	•	•		•
•	•		. •	. •	•	•	•
28	2012	na sa	3,89	3.89	80.66	-5.70	74.96
29	2012	3.52	3.89	7.41	80.66	-5.70	74.96
30	2013	0.02	3.89	3.89	80.66	-5.70	74.96
50	2014	. —	5.05	5.02	00.00	5,10	/1.50
•	•	•	*	•	•	•	•
•	•		•	•	•	•	•
•	•	•	¢	•	•	•	•
•	•	· · ·	•	•	• •	•	•
33	2017		3.89	3.89	80.66	-5.70	74.96
34	2018	1.94	3.89	5.83	80.66	-5.70	74.96
35	2019	- .	3.89	3.89	80.66	-5.70	74.96
•	•		• ,	. •	•	-	e
•	• .	•	•	• .	•	•	•
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• • •	•		÷. •		•	•	٠
50	2034	·	3.89	3,89	80,66	-5,70	74.96
					00400	0470 .	· · · · · ·

FIRR: 13.1%

Note:

/1: Refer to Table J-08(1)
/2: 0.1% of dam costs and 2% of irrigation costs
/3: Estimated on the basis of Annex F, Table F-11 Estimated on the basis of Annex F, Table F-11

Table J-32(2) FINANCIAL COST AND BENEFIT FLOW (IRRIGATION PLAN: 16,000 HA)

						(Unit: L	
Year		Financial	Cost		a sea a station and a second	ancial Benefi	t
in	Year	Investment and		Total	Net	Domestic	Total
Order		Replace. Cost	Cost	10001	Return	Consumption	
		/1	/2		/3	· .	
1	1985	7.62		7,62			
2	1986	5.72		5.72	· · ·		· ••••
3	1987	27.62	***	27.62	***		
4	1988	78.56		78.56			
5	1989	84.15		84.15			·
6	1990	67.32	0.46	67.78	1.13		1.13
7	1991	8.73	1.82	10.55	16.65	-3.80	12.85
8	1992	-	2.48	2.48	27.73	-3.80	23.93
9	1993	·	2.48	2.48	35.81	-3.80	32.01
10	1994	. 45 #	2.48	2,48	43.86	-3.80	40.06
11	1995	. .	2.48	2.48	51,92	-3.80	48.12
12	1996		2.48	2,48	53.74	-3.80	49.94
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•	•	•	•	. •	•	*	•
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•	•	•	. •	•	•	· •	•
28	2012	-	2.48	2,48	53.74	3,80	49.94
29	2013	3.04	2.48	2.48	53,74	-3.80	49.94
30	2014		2.48	2.48	53.74	-3.80	49.94
50		•				•	× •
•					9	•	•
	-		-	•		•	•
•	•	•	•	•	•	•	•
•	•	•		•		•	•
50	2034	· _	2.48	2,48	53.74	-3.80	49.94
UC.	4004						

FIRR: 11.7%

Note:

/1: Refer to Table J-08(2) /2: 0.1% of dam costs and /3: Estimated on the basis

0.1% of dam costs and 2% of irrigation costs

Estimated on the basis of Annex F, Table F-11

Table J-33 FINANCIAL COST AND BENEFIT FLOW (POWER GENERATION PLAN)

					(Unit: Lp.106)
Year		Financial Co	ost		Financial
in	Year	Capital Investment and	O&M	Total	Benefit
Order		Replacement Cost	Cost	IOCAL	Power Revenue
		/1	/2		/2
1	1985	gangata tan		-	
2	1986	-			Colory
3	1987	3.29	4	3.29	
4	1988	2.07	E .4	2.07	
5	1989	13.35	-	13.35	
6	1990	4.41	***	4.41	
7	1991	~~	0.63	0.63	12.24
8	1992		0.63	0.63	12.24
9	1993		0.63	0.63	12.24
10	1994		0.63	0.63	12.24
•	•		•	•	•
•	•	•		•	•
•	•	•	•	•	•
•	•	•	•	٠	•
	•	•	•	•	•
28	2012		0.63	0.63	12,24
29	2013	18.91	0.63	19.54	12.24
30	2014		0.63	0.63	12.24
	2,02,1				•
	· ·	·			
•				•	
. •		-	•	•	•
	000	-	0.00	0.62	10 04
50	2034	-	0.63	0,63	12,24

34.0% FIRR:

Note:

/1: Refer to Table J-08 $\overline{/2}$: Estimated in accorda Estimated in accordance with Annex J.3.2, Para (2)

in Year		Fine	Financial Cost			(U) Financial	(UNIC: LP.10%) al Benefit	t.
뇡	Investment Dam & Irri.	and Replace. Cost Power Generat.	0 Dam & Irri	& M Cost . Power Generat.	Total	Marketable Production	11-11 921	Total
. •	7.62	ł	3	t	7.62		. 1 	
	5.72	•	1		5.72	•	1 	I
	27.62		1	I	30.91		1	1
1988	78.56	2.07	1	. 1	80.63	ł	1	1
	84.15	13.35	1		97.50	i ti	Ť	1
•	67.32	4.41	0.46	I.	72.19	1.13	1	1.13
	8.73	1	1.82	9	11.18	12.85	2	25.09
	1	I	4.	6	3.11	23.93	2	36.17
9 1993			4	0.63	3.11	32.01	12.24	44.25
	ł	1	4	9	3.11	40.06	<u>.</u>	52.30
	l	1	4	9	3.11	48.12	<u></u>	60.36
12. 1996		1	4	9	3.11	49.94	N	62.18
•	•	•			•	•	•	•
•	•	•	•	•		•	•	•
•	•	•	•		•		•	•
•	•	•	•	•	•		•	•
	•	•	•	•	.	•	•	•
28 2012 29 2013	20 r	18 Q1	2.48	0.63	3.11	ത്ത	12.24	62.18 62.18
30 2014	יין ו 	+ 1 	r V	5.0	3.11) O	i N	62.18
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•	•	•		•	•	•	•	•
•	•	•	•		•	•	•	•
50 2034	• 1	• 1	2.48	0.63	3.11	49 94	12.24	62.18
) } E	- - -				ы. н.	N 1	1 1	

FINANCIAL COST AND BENEFIT FLOW (IRRIGATION OF 16,000 HA AND POWER GENERATION)

Table J-34 <u>F</u>

FIGURES

