TABLES

Table 1 (1) CROP WAITER REQUIREMENT (Monthly basis)

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0 0 0 112 110 110	0 0 0 0 112 110 110	rement (CWR)	131	ν U	c	·	•								
	·			?	>	9	0	Ö	0	0	112	110	110	138	

Table 1 (2) CROP WATER REQUIREMENT (10-day basis)

																				nm)
		СКОР	1	ىن 2	3	1	3 JUI	3	1	AUC 2	3	. 1	SEI 2	3 3	1	ост 2	3	1	S NO/	7 3
1.	Wet	Season Paddy														~				
	(1)	Local Variety																		
		- Land preparation (LP)	_		19			38		4										
		- Nursery (N) - Field crop (FC)	2	3	4	8		2 43		70	80	69	70	71	71	68	60	42	25	: 8
		- Crop water requirement (CWR)	. 2	3	23	50	64	83	89	74	80	69					60		25	٤
	(2)	Improved Variety																		
		Land preparation (LP)Nursery (N)				4		38			19									
		- Field crop (FC)		1	3	3	4 2	4 17	2 31	1 48	71	69	70	71	63	47	34	17	2	
		- Crop water requirement (CWR)		1	3	7		59		87	90	69		7,1	63		34		2	
		CROP		NOV			DEC			JAN		· ·	FEB			MAR		····	APR	
			1			1	2	3	1	2	3	1	2	3	1	2		· 1	2	3
2.	Dry	Season Paddy																		
	(1)	Improved Variety																		
		Land preparation (LP)Nursery (N)						19	38	38	38	33	4							
		- Field crop (FC)				2	3	4	4 8	3 24	2 45	1 62	79	67	96	93	81	52	31	10
		- Crop water requirement (CWR)				2	3	23	50	65	85	96	83	67	96	93	81	52	31	10
3.	Grou	undnuts																		
		- Land preparation (LP)		10	20	20	10													
		Field crop (FC)Crop water requirement (CWR)		1 11	8 28	17 37	27 37	35 35	35 35	37 37	42 42	40 40	38 38	27	27	15	5			
4	1611 m. au	•				,	٠,	,,	33	٠,	42	40	30	27	27	15	5			
4.	Mung	ß Beans																		
		Land preparation (LP)Field crop (FC)		10 · 1	20 4	20 11	10 16	26	34	27	40	2.2	:							
		+ Crop water requirement (CWR)		11	24	31	26	26	34	37 37	40 40	33 33	20 20	4						
5,	Vege	tables																		
		- Land preparation (LP)		8	13	13	13	13												
		- Field crop (FC)		1	7	14	21	31	31	31	34	34	33	21	22	13	5			
		- Crop water requirement (CWR)		9	20	27	34	44	31	31	34	34	33	21	22	13	5			
		CROP	1	DEC 2	3	1	JAN 2	. 3		FEB 2	3	1	MAR 2	3	1	APR 2	3	1	MAY 2	3
									- 		-									
5. 5		Crops																		
		- Crop water requirement (CWR)	36	36	40	35	35	39	39	39	31	45	45	49	44	44	44	37	18 -	

Table 2 (1) CROP AREA FACTOR (Monthly basis)

-	CROP	APR	МУХ	JUN	JULY	AUG	SEP	ocr	NOV	DEC	JAN	FEB	MAR
	100											:	
Wet	Season Paddy												
(1)	Local Variety	:			i.								
a.	Land preparation (kl)			0.037	0,222	0.074							
b.	Nursery (km)			0.017	0.029	0.004					J.	er	
c.	Field crop (kf)				0.334	0.917	1.000	0.917	0.334				·
đ,	Total (kt)			0,054	0,585	0,995	1.000	0,917	0.334				
				·									
(2)	Improved Variety		,		* .								
ā.	Land Preparation												
-:	(k1)					0.184							
	Nursery (km)			0.004	0.029								
	Field crop (kf)					0.667	1.000		0.083				
d.	Total (kt)			0.004	0,261	0.868	1.000	0.667	0.083				
, Dry	Season Paddy												
(1)	Improved Variety												
a.	Land preparation (kl)									0.037	0.222	0.074	
b.	Nursery (km)									0.017	0.029	0.004	
c.	Field crop (kf)	0,334									0.334	0.917	0.9
d.	Total (kt)	0.334								0.054	0,585	0,995	0.9
. Gro	undnuts								0.125	0.875	1.000	1.000	0.5
, Mun	g Beans								0.125	0.875	1.000	0.500	
. Veg	etables								0.083	0,667	1.000	0.917	0,3
	e Crops		0.500						•		1.000		

Table 2 (2) CROP AREA FACTOR (10-day basis)

		Sub B			July		Aug			ron		ć				
CROP	•	4					1))		3		44	Sov	
	-	2	m	۲,	2	3	2	m	٦	2	3	1 2	m	М	2	m
1. Wet Season Paddy (1) Local Variety																
Land preparation (KI)Nursery (Kn)	0.006	0.017	0.028	0.222 0	0.222 0	0.022 0.195	95 0.028	σ)								
- Field crop (kf) - Total (kt)		0.017	0.139	0.111.0		0.556.0.778	78 0.972	1.000	1.000	1.000	1.000	1.000 0.972		0.556		Ħ
										200	T 000	7.600 0.975	2 0 778	0.556 0.333	33 0.111	7
(2) Improved VarietyLand preparation (k1)						0.222 0.222		2 0.111								
- Nursery (Km)		100.0	0.011	0.022 0.						4.						
- frenc Crop (Kr) - Total (Kt)		0.001	0.011	0.050.0	0.028 0	0.222 0.444 0.477 0.694	14 0.667	7 0.889	1.000	1,000	1.000	0.889 0.667	7 0.444	0.222 0.028	28	
															}	
		No.v		ы	Dec		Jan			řeb		Mar		4	Apr	
CROP	н	7	es .	н	₩.	el M	71	m	ä	α.	m.	7	m m	н	. 6	m
2. Dry Season Paddy (1) Improved Variety																
Land preparation (kl						0.111 0.222			0.195	0.028						
- Field crop (kf)				0.006 0.017		.028 0.033	3 0,032	2 0.022	0.012							
- Total (kt)				0.006 0.	0.017 0	0.139 0.366			0.985	1.000	7.000	1.000 0.972	2 0.778	0.556 0.333	11.0 58	디디
3. Groundhuts		0.042	0.333.	0.667 0.	1 856.	1.000 1.000	0 1.000	1.000	000	1.000	1.000	0,833,0,500	0 0.167			-
4. Mung Beans		0.042	0.333	0.667 0.	0.958 1	1.000 1.000	0 1.000	1.000	0.833	0.500	0.167			:		
5. Vegetables	:	0.028	0.222	0.444 0.	0.667 0	0.889 1.000	000.1	3 1,000	1.000	0.972	0.778	0.556 0.333	3 0.111			
										: .						
į		Dec			Jan		Feb			Mar		Appr		W	Nay	
CROP	rt	2	m	н	2	ri ri	7	e m	٦	C	en.	2	ო	7	",	ന
6. Tree Crops	1.000 1.000	7,000	1.000	1.000 1.000		1.000 1.000	0001.000	1.000 1.000		1.000	1.000	1.000 1.000	Ì	000.1.000.1.000	0.500	g
																}
,																

Table 3 METEOROLOGICAL DATA USED FOR ESTIMATING EVAPOTRANSPIRATION

1-1980	MAR		28.9	70.9	237.6	3.8	
on Buri	田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田		27.5	70.8	234.0	3.7	
Station : Chon Buri Recorded year : 1951-1980	JAN		26.0	67.1	214.2	3.7	
Stat. Reco:	DEC		26.0	9 2 2	219.6	€.	
	NOV		26.8	72.2	207.0	4.3	
	OCT		27.5	79.5	167.4	9	
	SEP F		28.0	79.9	176.4	9	. ·
-	AUG	ļ.	28.4	75.8	216.0	8	
	JUL	-	28.7	75.1	219.0	9.9	
	NOC		29.0	74.9	237.6	6.4	
	MAY		29.4	74.8	196.2	0.9	
	APR		29.7	71.0	214.2	4. G	
			(D _e)	ty (%)	km/đay)	(Oktas)	
	ITEM		Air Temperature (°C)	Relative Humidity(%)	Wind Velocity (km/day)	Cloudiness (C	

Table 4 (1) AVERAGE CROP COEFFICIENT (Monthly basis)

1			·									
	APR	MAY	שעע	JUL	ÁUG	SEP	oct	NOV	DEC	NAL	FEB	MAR
1. Wet Season Paddy												
(1) Local Variety /1				0.91	0.99	1.08	1.08	1.07				
(2) Improved Variety 💆	<u>L</u>			0.93	0.99	1.07	1.09	1.08				
2. Dry Season Paddy		:										
(1) Improved Variety 1	1.16									0.96	1.06	1.17
								1.				
3. Groundnuts				•				0.55	0.64	0.84	0.77	0.55
4. Mung Beans					-			0.30	0.43	0.81	0.81	
5. Vegetables				٠	:	į		0.70	0.70	0.70	0.70	0.70
6. Tree Crops 0	.80	0.80							0.80	0.80	0.80	80
										•		

Note; $\sqrt{1}$: after transplanting

Table 4 (2) AVERAGE CROP COEFFICIENT

(10-day basis)

ty /1 ty /1 ty /1 1	CROP		NO.			Ig.			AUG			G. C.			Ę		ļ		
THEY ALL 0.88 0.90 0.92 0.96 0.99 1.01 1.06 1.08 1.09 1.09 1.09 1.08 1.09 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09		٦	2	m	н	2	м	ч	2	m	н	5 72	m	н	3 %	m	H	200	· eA
Variety /l 0.88 0.90 0.92 0.96 0.99 1.01 1.06 1.08 1.09 1.09 1.09 1.09 ved Variety /l 1 2 3 1 2 2 3 1 2 2 3 1 2 3 1 2 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3	Wet Season Paddy																		
riety /l Nov	Variety /l				0.88	06.0	0.92	96.0	0.99	1.01	1.06	1.08	1.09			1.07	1.07	1.06	7,05
Triety /1 0.53 0.55 0.58 0.62 0.70 0.80 0.84 0.85 0.82 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	ved Variety <u>/1</u>				• •			0,95	66*0	10-1	1.05		1.09	1.09		1.08		1.06	
Paddy ved Variety /1 0.53 0.55 0.58 0.62 0.70 0.80 0.84 0.86 0.82 0.78 0.70 0.58 0.55 0.28 0.30 0.35 0.38 0.53 0.76 0.84 0.82 0.82 0.78 0.70 0.56 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	ÇÖ.		NOV 2	m	ਜ	DEC 2	m		JAN	m	н	FEB 2	m	-	MAR 2	m	٦,	APR 2	m
1 Variety /1 0.53 0.55 0.58 0.62 0.70 0.80 0.84 0.86 0.82 0.78 0.70 0.58 0.55 0.28 0.30 0.35 0.38 0.53 0.76 0.84 0.82 0.82 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	Dry Season Paddy		æ							:									
0.53 0.55 0.58 0.62 0.70 0.80 0.84 0.86 0.82 0.78 0.70 0.58 0.55 0.55 0.28 0.30 0.35 0.38 0.53 0.76 0.84 0.82 0.82 0.80 0.68 0.58 0.55 0.70 0.70 0.70 0.70 0.70 0.70 0.70	ved Variety /1				•		÷			96.0	1.02					1.17	1,16	1.16	1.12
0.28 0.30 0.35 0.38 0.53 0.76 0.84 0.82 0.82 0.80 0.68 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7										0.86						0.47			
OP DEC JAN PEB MAR 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 3 3 3													0.68						
DEC JAN FEB MAR APR																0.70			
	CROP	٦	DEC 2	m	1	JAN 2	m		FEB 2	m	- F	MAR 2		7	APR 2	m	٦.	MAY 2	m
Tree Crops 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.8									ŀ	0.80	1 '	1	•			08.0	0.80 0.80	1	0.80

Note : /1 : after transplanting

Table 5 (1) EFFECTIVE RAINFALL (Monthly, Paddy for Khlong Luang River Basin)

													(Unit : mm)
YEAR	ਬਰਵ	MAY	NO 5	INF	AUG	SEP	OCI	NOV	DEC	UAN	EEE	ਲਵ <u>ਅ</u>	TOTAL
1968	81	142	144	103	108	192	98	10	Ö	67	77	74	1,051
1969	128	133	57	84	139	181	19	47	Ö	8		96	944
1970	E E	138	180	96	127	151	104	14	48	0	77	44	0.00° T
1971	69	107	T T	29	214	175	140	0		0	23	09	88
1972	104	なか	157	21	09	213	104	79	10	0	0	40	83 83 83
1973	65	133	7	141	169	165	38	41	Ö :	0	54	84	696
1974	74	112	e 6	133	141	138	203	9	0	34	48	40	1,076
1975	18	133	65	159	125	172	144	12	0	0	38	000	946
1976	23 8	118	22	149	116	123	162	24	0	0	13	44	865
1977	87	125	73	118	86	102	ଓ	40	0	14	49	TOI	830
1978	24	176	93	115	55	197	47	0	0	 	23	38	759
1979	56	69	85	56	693	168	0	-0	0	0	17	ტ ტ	0.040
1980	54	82	155	82	116	139	74	31	0	0	근	œ m	782
1981	146	113	43	121	54	172	128	45	0	0	ю Н	0	835

Table 5 (2) EFFECTIVE RAINFALL (Monthly, Upland Crops for Khlong Luang River Basin)

													(Unit : mm)
YEAR	APR	MAY	אטז	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL
1968	57	<u>გ</u>	95	70	72	127	60	7		48	K)	ŗ	717
1969	& 4.	87	41	28	92	121	43	33	0	12	(C	ן ע) T ()
1970	37	16	120	65	83	<u>გ</u>	70	10	34) 0) M) K	o m
1971	48	72	74	22	138	117	92	0	0	0	17	, 4 , c	יי ה היי ה
1972	70	31	103	16	43	137	70	56	~	Ö	i o	600	יין כא
1973	46	88	56	66	113	111	28	31	0	0	84	, 10 0	502
1974	51	74	62	88	6 8	06	133	43	0	. 25	34) C	1 62
1975	13	87.	46	106	83	114	و ئ	ω	0	, c	, α	א ע א	22 7
1976	43	78	42	<u>თ</u>	77	8	107	8	0) c) o	, v	ט ונג ט נג
1977	09	83	51	78	53	თ თ	46	78	, 0	10	ı	1 t	ก เห ถ เก
1978	18	118	62	77	39	130	34	0	0	00	· [-	, r) r
1979	41	48	57	41	62	113	0	0	0) 0) (-	1 10) L
1980	38	28	102	57	77	92	51	23	0	0	, α	, α	7
1981	96	76	31	81	45	115	84	33	0	0	o on) 0	J. 5770
))

Table 5 (3) EFFECTIVE RAINFALL (Monthly, Paddy for Rayong River Basin)

(Unit : mm)	TOTAL		900	1,162	1,164	805	83.	1,034	1,170	696	844	925	098	667	9 8 8	1,076
	MAR		80	Ø	28	ወነ	73	29	62	44	თ	0	10	9	ഗ ന	87
	FEB		34	131	14	0	0	28	0	40	0	88	4	0	16	о
	JAN		104	. 09	. 0	0	20	0	63	0	20	9		0	0	56
:	DEC		14	0	132	35	0	н 6	0	0	0	0	0	10	0	0
	NOV		28	68	88	0	98	80	55	38	98	0	8	0	48	149
	OCT		95	156	92	143	68	140	245	198	178	137	06	73	131	119
	SEP		94	155	141	165	202	175	192	137	127	127	136	152	110	141
	AUG		73	128	127	131	17	104	114	107	181	S S	98	14	133	127
	Jul	-	91	112	89	55	46	79	59	86	28	182	130	78	113	9
	טטט		237	99	162	49	158	153	79	100	20	80	162	168	161	128
	MAY	٠	129	170	157	153	27	194	167	168	163	125	120	35	.62	179
	APR		0	47	135	61	133	33	134	54	73	56	09	72	80	09
							14									
	VEAR	,	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981

Table 5 (4) EFFECTIVE RAINFALL (Monthly, Upland Crops for Rayong River Basin)

TOTAL		663	780	775	0 8 9	2 68	70T	776	657	575	624	280	453		717	
MAR		65	84	22		57	22	44	30		0	7	47	26	9	
Feb		25	- 98 - 2	10	0	0	22	0	30	0	0	34	O,	2 H :	0	
JAN		70	42	0	0	15	0	45	0	16	46	0	0	0	18	
DEC		10	0	87	26	0	14	0	0	0	0	0	~	,0	0	
NOV		22	47	59	0	99	56	38	28	27	7	13 13	0	34	8	
OCF		62	103	62	94	48	95	151	131	119	0	62	51	86	77	
SEP		63	102	693	110	133	117	127	06	<u>ო</u>	83	80	<u>თ</u>	73	6 6	
AUG		51	84	83	86	13	70	92	72	121	38	59	10	88	83	
JUL		62	75	59	38	33	56	42	50	22	121	86	53	75	43	
JUN		148	46	107	34	105	100	56	67	22	n O	107	110	106	80 4.	
MAY		ထ က	113	104	101	17	127	109	112	107	85	80	26	42	118	
APR		0	34	88	43	87	25	88	38	51	41	43	20	26	£43	
					·											
YEAR	. !	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	

Table 5(5) EFFECTIVE RAINFALL (10 days, Paddy for Khlong Luang River Basin)

									· · · · · · · · · · · · · · · · · · ·			* .	(Uni	t: mm)
YEAR	10-DAY ORDER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	TOTAI
1968	1	. 0	61	25	4	50	16	41	9	0	23	44	0	
	2	52	13	86	18	42	89	30	. 0	0	44	0	43	
	3	29	68	33	81	16	87	15	1	0	0	0	31	1,051
1969	1	49	49	34	29	14	29	11	47	0	0	0	16	
	2	41	16	4	22	66	106	47	0	0	18	0	22	
	3	38	68	19	33	59	46	3	0	0	0	0	58	944
1970	1	36	55	49	82	38	34	24	. 0	42	0	0	4	
	2	0	59	64	3	52	62	42	. 0	1	0	0	32	
	3	15	24	67	11	37	55	38	14	5	0	77	8	1,030
1971	1	1	31	24	14	. 1	50	64	0	0	0	23	0	
	2	35	20	54	9	103	.60	30	0	0	0	0	6	
	3	33	56	33,	6	110	65	46	0	0	. 0	0	54	928
1972	1	74	3	85	11	13	115	35	47	10	0	0	1	
	2	10	25	26	7	10	43	69	32	0	0	0	27	
	3.	20	16	46	3	3,7	5 5	, 0	0	0	0	0	12	832
1973	1	0	. 64	22	71	130	35	32	6	0	0	0	. 6	
	2	40	30	39	31	7	33	0	35	0	o	40	46	
	3	25	39	18	39	32	97	6	0	0	0	14	. 32	969
1974	1	3	19	13	11	45	16	66	58	0	30	23	26	
	2	45	43	0	30	31	77	124	2	0	4	21	0	
٠	3	26	50	80	92	65	45	13	0	0.	0	4	14	1,076
1975	1	11	25	16	50	22	48	128	0	0	0	25	19	
	2	1	22	24	90	38	86	2	12	0	0	13	12	
	3	6	86	25	19	65	38	14	0	0	0	0	49	946
1976	1	19	69	51	32	8	54	59	24	0	0	8	42	
	2	19	30	0	32	42	62	14	0	0	0	0	0	
	3	20	19	7	85	66	7	89	0 ,	0	0	5	2	865
1977	1	25	36	34	13	28	28	20	7	0	9	2	5	
	2	34	32	11	27	0	15	7	0	0	0	1	42	
	3	28	57	28	78	58	59	38	33	0	5	16	54	830
1978	1	0	67	12	23	14	27	13	0	0	. 9	0	0	
	2	14	91	56	36	10	113	12	0	0	2	7	0	
	3	10	18	25	56	31	57	22	0	0	0	16	18	759
1979	1 '	0		16	12	25	31	0	0	0	0.	o	15	
	2	2	10	42	7	0	41	0	0	0	0		49	
	3	54	29	24	37	68	96	. 0	0	0	0	17	35	640
1980	1	10	12	81	3	43	58	44	31.	0	0	8	9	
	2	38	34	52	24	20	27	5	0	0	0	0	5	
	3	• 6	36	22	55	53	54	25	0	0	0	3	24	782
1981	1	23	25	15	35	28	43	66	28	0	0	0	0	
	2	24	29	16	35	24	92	7	5	0	0	0	0	
	3	99	59	12	51	2	37	55	12	0	0	13	. 0	835

Table 5(6) EFFECTIVE RAINFALL (10 days, Upland Crops for Khlong Luang River Basin)

10-DAY													
ORDER	APR	MAY	JUN	JUL	AUG	SEP	ост	NOA	DEC	JAN	FEB	(Uni MAR	t: mm) TOTAL
1	. 0	40	16	3	33	10	28	6	n	16	31	Λ.	
,2	37	9	57										
3	20	44	22	55	11	58	11	1	0	0	ŏ	21	710
1	32	32	25	20	9	19	8	33	0	0	0	11	
				16	44	71	33	0	0	12	0		
3	25	45	1.3	22	39	31	2	0	0	0	0	39	636
1	26	36	32	55	23	22	16	. 0	29	0	0	. 3	
								0	1	0	. 0	23	•
3	. 11	16	45	8	. 25	36	25	10	4	0	53	5	693
1	0	21	16	1.1	1.	33	42	. 0	0	. 0	17	0	
										0	0 .	4	
3	23	37	22	4	71	44	30	0	0	0	0	39	. 623,
1	50	2	56	8	10	74	23	-33	7	0	. 0	1	
3	14	TT	30	3	27	35	0	0	0	0	0	9	562
1	0	43	16	47	- 87	23	23	5	0	. 0	0	4	
					5	23	0	26	0	0	36	32	
3	18	25	12	26	21	65	5	0	0	0	12	22	672
1	2	13	9	7	29	11	43	41	0	22	16	19	
					.21	50	81	2	0	3	15	0	
3	18	33	53	61	43	29	9	0	0	0	3	11	723
1	8	16	11	33	15	32	85	0	0	0	18	14	
						57	1	8	0	0	10	7	
3	4	56	18	13	43	25	9	0	0	0	. 0	35	636
1	14	46	37	21	5	36	39	18	0	0	6	29	
			0	21	28	42	9	0	0	0	0	0	
3	. 15	12	5	56	44	4	59	0	0	0	3	2	585
1	18	24	24	8	19	19	14	5	0	6	2	3	
							~		0	0	1	28	
3	19	38	20	52	40	40	27	23	0	4	11	36	565
1	0	45	8 .	15	. 10	18	9	0	0	6	0	0	
						74	9	0	0	2	5	0	
3	7.	12	16	38	22	38	16	• 0	0	0	12	12	515
1	0	21	11	9	17	21	0	0	0	0	0	10	
2										0	0	33	
3	39	20	17	27	45	64	0	,0	0	. 0	12	24	441
1	7	9	53	2	29	38	30	23	0	0	6	7	
								0	0	0	0	4	
3	4		12	38	35	36	18	0	0	0	2	17	534
1	15	17	11	23	23	29	43	21	0	0	0	0	
			12	23	20	62	4	3	0	0	Ó	0	
.3	65	40	- 8	35	2	24	37	9	0	0	9	0	570
	2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 3 1 2 3 3 3 3	2 37 3 20 1 32 2 27 3 25 1 26 2 0 3 11 1 0 2 25 3 23 1 50 2 6 3 14 1 0 2 28 3 18 1 2 2 31 3 18 1 8 2 31 3 18 1 8 2 1 3 4 1 14 2 14 3 15 1 18 2 23 3 19 1 0 2 11 3 7 1 0 2 2 3 39 1 7 2 7 3 4 1 15 2 16	2 37 9 3 20 44 1 32 32 2 27 10 3 25 45 1 26 36 2 0 39 3 11 16 1 0 21 2 25 14 3 23 37 1 50 2 2 6 18 3 14 11 1 0 43 2 28 20 3 18 25 1 2 13 2 31 28 3 18 33 1 8 16 2 1 15 3 4 56 1 14 46 2 14 20 3 15 12 1 18 24 2 23 21 3 19 38 1 0 45 1 1 4 46 2 1 4 20 3 15 12 1 18 24 2 23 21 3 19 38 1 0 45 1 1 61 3 7 12 1 0 21 2 7 3 39 20 1 7 9 2 7 3 39 20 1 7 9 2 7 3 39 20 1 7 9 2 7 3 39 20 1 7 9 2 7 3 39 20 1 7 9 2 7 3 39 20	2 37 9 57 3 20 44 22 1 32 32 25 2 27 10 3 3 25 45 13 1 26 36 32 2 0 39 43 3 11 16 45 1 0 21 16 2 25 14 36 3 23 37 22 1 50 2 56 2 6 18 17 3 14 11 30 1 0 43 16 2 28 20 28 3 18 25 12 1 2 13 9 3 18 25 12 1 2 13 9 3 18 33 53 1 8 16 11 2 14 20	2 37 9 57 12 3 20 44 22 55 1 32 32 25 20 2 27 10 3 16 3 25 45 13 22 1 26 36 32 55 2 0 39 43 2 3 11 16 45 8 1 0 21 16 11 2 25 14 36 7 3 23 37 22 4 1 50 2 56 8 2 6 18 17 5 3 14 11 30 3 1 0 43 16 47 2 28 20 28 20 3 18 25 12 26 1 2 13 9 7 2 31 28 0 20	2 37 9 57 12 28 3 20 44 22 55 11 1 32 32 25 20 9 2 27 10 3 16 44 3 25 45 13 22 39 1 26 36 32 55 23 2 0 39 43 2 35 3 11 16 45 8 25 1 0 21 16 11 1 1 2 25 14 36 7 66 3 23 37 22 4 71 1 1 1 2 26 8 10 2 6 8 10 2 6 8 10 2 6 8 10 2 6 8 10 2 5 6 8 10 2 2 2 2 1 1 2 13 18 10 3 2 <td>2 37 9 57 12 28 59 3 20 44 22 55 11 58 1 32 32 25 20 9 19 2 27 10 3 16 44 71 3 25 45 13 22 39 31 1 26 36 32 55 23 22 2 0 39 43 2 35 41 3 11 16 45 8 25 36 1 0 21 16 11 1 33 2 25 14 36 7 66 40 3 23 37 22 4 71 44 1 50 2 56 8 10 74 2 6 18 17 5 6 28 3 14 11 30 3 27 35 1 <t< td=""><td>2 37 9 57 12 28 59 20 3 20 44 22 55 11 58 11 1 32 32 25 20 9 19 8 2 27 10 3 16 44 71 33 3 25 45 13 22 39 31 2 1 26 36 32 55 23 22 16 2 0 39 43 2 35 41 29 3 11 16 45 8 25 36 25 1 0 21 16 11 1 33 42 2 25 14 36 7 66 40 20 3 23 37 22 4 71 44 30 1 0 43 16 47 87 23 23 3 14 11 30 3</td><td>2 37 9 57 12 28 59 20 0 3 20 44 22 55 11 58 11 1 1 32 32 25 20 9 19 8 33 2 27 10 3 16 44 71 33 0 3 25 45 13 22 39 31 2 0 1 26 36 32 55 23 22 16 0 2 0 39 43 2 35 41 29 0 3 11 16 45 8 25 36 25 10 1 0 21 16 11 1 33 42 0 2 25 14 36 7 66 40 20 0 3 23 37 22 4 71 44 30 0 1 2 13 16<!--</td--><td>2 37 9 57 12 28 59 20 0 0 0 3 20 44 22 55 11 58 11 1 0 1 32 32 22 52 20 9 19 8 33 0 0 2 27 10 3 16 44 71 33 0 0 3 25 45 13 22 39 31 2 0 0 1 26 36 32 55 23 22 16 0 29 2 0 39 43 2 35 41 29 0 1 3 11 16 45 8 25 36 25 10 4 1 0 21 16 11 1 33 42 0 0 2 25 14 36 7 66 40 20 0 0 3 23 37 22 4 71 44 30 0 0 1 50 2 56 8 10 74 23 33 7 2 6 18 17 5 6 28 47 23 0 3 14 11 30 3 27 35 0 0 0 1 0 43 16 47 87 23 23 5 0 0 1 0 43 16 47 87 23 23 5 0 0 1 0 43 16 47 87 23 23 5 0 0 1 2 13 9 7 29 11 43 41 0 2 2 13 9 7 29 11 43 41 0 2 31 28 0 20 21 50 81 2 0 3 18 25 12 26 21 65 5 0 0 1 2 13 28 0 20 21 50 81 2 0 3 18 33 53 61 43 29 9 0 0 1 8 16 11 33 15 32 85 0 0 1 8 16 37 21 5 36 39 18 0 2 1 1 5 17 60 25 57 1 8 0 3 14 46 37 21 5 36 39 18 0 3 15 12 5 56 44 4 59 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 3 19 38 20 52 40 40 27 23 0 1 0 45 8 15 10 18 9 0 0 1 0 21 11 9 17 21 0 0 0 2 2 7 29 5 0 28 0 0 0 3 39 20 17 27 45 64 0 0 0 0 1 1 7 9 53 2 29 38 30 23 0 2 2 7 29 5 0 28 0 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 15 17 11 23 23 29 43 21 0 2 16 19 12 23 20 62 4 3</td><td>2 37 9 57 12 28 59 20 0 0 32 3 20 44 22 55 11 58 11 1 0 0 0 1 32 32 25 20 9 19 8 33 0 0 12 3 25 45 13 16 44 71 33 0 0 12 3 25 45 13 22 39 31 2 0 0 0 0 1 26 36 32 55 23 22 16 0 29 0 1 0 2 0 39 43 2 35 41 29 0 1 0 3 11 16 45 8 25 36 25 10 4 0 1 0 21 16 11 1 33 42 0 0 0 0 2 25 14 36 7 66 40 20 0 0 0 3 23 37 22 4 71 44 30 0 0 0 1 50 2 56 8 10 74 23 33 7 0 2 6 18 17 5 6 28 47 23 0 0 3 14 11 30 3 27 35 0 0 0 1 0 43 16 47 87 23 23 5 0 0 3 18 25 12 26 21 65 5 0 0 3 18 25 12 26 21 65 5 0 0 1 2 28 20 28 20 5 23 0 0 0 1 2 28 20 28 20 5 23 0 0 0 1 2 31 28 0 20 21 50 81 2 0 0 3 18 25 12 26 21 55 50 0 1 2 1 3 9 7 29 11 43 41 0 22 2 31 28 0 20 21 50 81 2 0 3 3 18 33 53 61 43 29 9 0 0 0 1 1 4 46 37 21 5 36 39 18 0 0 1 1 8 16 11 33 15 32 85 0 0 0 1 1 8 16 11 33 43 29 9 0 0 0 1 1 8 16 11 33 43 29 9 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 18 26 18 13 43 25 9 0 0 0 1 1 14 46 37 21 5 36 39 18 0 0 2 14 4 20 0 21 28 42 9 0 0 0 1 1 16 38 24 48 8 19 19 14 5 0 6 2 2 3 21 7 18 0 0 10 5 0 0 0 3 3 19 38 20 52 40 40 27 23 0 4 1 0 45 8 15 10 18 9 0 0 6 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 3 3 4 25 15 38 22 38 16 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 1 1 5 17 11 23 23 29 43 21 0 0</td><td>2</td><td>2</td></td></t<></td>	2 37 9 57 12 28 59 3 20 44 22 55 11 58 1 32 32 25 20 9 19 2 27 10 3 16 44 71 3 25 45 13 22 39 31 1 26 36 32 55 23 22 2 0 39 43 2 35 41 3 11 16 45 8 25 36 1 0 21 16 11 1 33 2 25 14 36 7 66 40 3 23 37 22 4 71 44 1 50 2 56 8 10 74 2 6 18 17 5 6 28 3 14 11 30 3 27 35 1 <t< td=""><td>2 37 9 57 12 28 59 20 3 20 44 22 55 11 58 11 1 32 32 25 20 9 19 8 2 27 10 3 16 44 71 33 3 25 45 13 22 39 31 2 1 26 36 32 55 23 22 16 2 0 39 43 2 35 41 29 3 11 16 45 8 25 36 25 1 0 21 16 11 1 33 42 2 25 14 36 7 66 40 20 3 23 37 22 4 71 44 30 1 0 43 16 47 87 23 23 3 14 11 30 3</td><td>2 37 9 57 12 28 59 20 0 3 20 44 22 55 11 58 11 1 1 32 32 25 20 9 19 8 33 2 27 10 3 16 44 71 33 0 3 25 45 13 22 39 31 2 0 1 26 36 32 55 23 22 16 0 2 0 39 43 2 35 41 29 0 3 11 16 45 8 25 36 25 10 1 0 21 16 11 1 33 42 0 2 25 14 36 7 66 40 20 0 3 23 37 22 4 71 44 30 0 1 2 13 16<!--</td--><td>2 37 9 57 12 28 59 20 0 0 0 3 20 44 22 55 11 58 11 1 0 1 32 32 22 52 20 9 19 8 33 0 0 2 27 10 3 16 44 71 33 0 0 3 25 45 13 22 39 31 2 0 0 1 26 36 32 55 23 22 16 0 29 2 0 39 43 2 35 41 29 0 1 3 11 16 45 8 25 36 25 10 4 1 0 21 16 11 1 33 42 0 0 2 25 14 36 7 66 40 20 0 0 3 23 37 22 4 71 44 30 0 0 1 50 2 56 8 10 74 23 33 7 2 6 18 17 5 6 28 47 23 0 3 14 11 30 3 27 35 0 0 0 1 0 43 16 47 87 23 23 5 0 0 1 0 43 16 47 87 23 23 5 0 0 1 0 43 16 47 87 23 23 5 0 0 1 2 13 9 7 29 11 43 41 0 2 2 13 9 7 29 11 43 41 0 2 31 28 0 20 21 50 81 2 0 3 18 25 12 26 21 65 5 0 0 1 2 13 28 0 20 21 50 81 2 0 3 18 33 53 61 43 29 9 0 0 1 8 16 11 33 15 32 85 0 0 1 8 16 37 21 5 36 39 18 0 2 1 1 5 17 60 25 57 1 8 0 3 14 46 37 21 5 36 39 18 0 3 15 12 5 56 44 4 59 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 3 19 38 20 52 40 40 27 23 0 1 0 45 8 15 10 18 9 0 0 1 0 21 11 9 17 21 0 0 0 2 2 7 29 5 0 28 0 0 0 3 39 20 17 27 45 64 0 0 0 0 1 1 7 9 53 2 29 38 30 23 0 2 2 7 29 5 0 28 0 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 15 17 11 23 23 29 43 21 0 2 16 19 12 23 20 62 4 3</td><td>2 37 9 57 12 28 59 20 0 0 32 3 20 44 22 55 11 58 11 1 0 0 0 1 32 32 25 20 9 19 8 33 0 0 12 3 25 45 13 16 44 71 33 0 0 12 3 25 45 13 22 39 31 2 0 0 0 0 1 26 36 32 55 23 22 16 0 29 0 1 0 2 0 39 43 2 35 41 29 0 1 0 3 11 16 45 8 25 36 25 10 4 0 1 0 21 16 11 1 33 42 0 0 0 0 2 25 14 36 7 66 40 20 0 0 0 3 23 37 22 4 71 44 30 0 0 0 1 50 2 56 8 10 74 23 33 7 0 2 6 18 17 5 6 28 47 23 0 0 3 14 11 30 3 27 35 0 0 0 1 0 43 16 47 87 23 23 5 0 0 3 18 25 12 26 21 65 5 0 0 3 18 25 12 26 21 65 5 0 0 1 2 28 20 28 20 5 23 0 0 0 1 2 28 20 28 20 5 23 0 0 0 1 2 31 28 0 20 21 50 81 2 0 0 3 18 25 12 26 21 55 50 0 1 2 1 3 9 7 29 11 43 41 0 22 2 31 28 0 20 21 50 81 2 0 3 3 18 33 53 61 43 29 9 0 0 0 1 1 4 46 37 21 5 36 39 18 0 0 1 1 8 16 11 33 15 32 85 0 0 0 1 1 8 16 11 33 43 29 9 0 0 0 1 1 8 16 11 33 43 29 9 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 18 26 18 13 43 25 9 0 0 0 1 1 14 46 37 21 5 36 39 18 0 0 2 14 4 20 0 21 28 42 9 0 0 0 1 1 16 38 24 48 8 19 19 14 5 0 6 2 2 3 21 7 18 0 0 10 5 0 0 0 3 3 19 38 20 52 40 40 27 23 0 4 1 0 45 8 15 10 18 9 0 0 6 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 3 3 4 25 15 38 22 38 16 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 1 1 5 17 11 23 23 29 43 21 0 0</td><td>2</td><td>2</td></td></t<>	2 37 9 57 12 28 59 20 3 20 44 22 55 11 58 11 1 32 32 25 20 9 19 8 2 27 10 3 16 44 71 33 3 25 45 13 22 39 31 2 1 26 36 32 55 23 22 16 2 0 39 43 2 35 41 29 3 11 16 45 8 25 36 25 1 0 21 16 11 1 33 42 2 25 14 36 7 66 40 20 3 23 37 22 4 71 44 30 1 0 43 16 47 87 23 23 3 14 11 30 3	2 37 9 57 12 28 59 20 0 3 20 44 22 55 11 58 11 1 1 32 32 25 20 9 19 8 33 2 27 10 3 16 44 71 33 0 3 25 45 13 22 39 31 2 0 1 26 36 32 55 23 22 16 0 2 0 39 43 2 35 41 29 0 3 11 16 45 8 25 36 25 10 1 0 21 16 11 1 33 42 0 2 25 14 36 7 66 40 20 0 3 23 37 22 4 71 44 30 0 1 2 13 16 </td <td>2 37 9 57 12 28 59 20 0 0 0 3 20 44 22 55 11 58 11 1 0 1 32 32 22 52 20 9 19 8 33 0 0 2 27 10 3 16 44 71 33 0 0 3 25 45 13 22 39 31 2 0 0 1 26 36 32 55 23 22 16 0 29 2 0 39 43 2 35 41 29 0 1 3 11 16 45 8 25 36 25 10 4 1 0 21 16 11 1 33 42 0 0 2 25 14 36 7 66 40 20 0 0 3 23 37 22 4 71 44 30 0 0 1 50 2 56 8 10 74 23 33 7 2 6 18 17 5 6 28 47 23 0 3 14 11 30 3 27 35 0 0 0 1 0 43 16 47 87 23 23 5 0 0 1 0 43 16 47 87 23 23 5 0 0 1 0 43 16 47 87 23 23 5 0 0 1 2 13 9 7 29 11 43 41 0 2 2 13 9 7 29 11 43 41 0 2 31 28 0 20 21 50 81 2 0 3 18 25 12 26 21 65 5 0 0 1 2 13 28 0 20 21 50 81 2 0 3 18 33 53 61 43 29 9 0 0 1 8 16 11 33 15 32 85 0 0 1 8 16 37 21 5 36 39 18 0 2 1 1 5 17 60 25 57 1 8 0 3 14 46 37 21 5 36 39 18 0 3 15 12 5 56 44 4 59 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 3 19 38 20 52 40 40 27 23 0 1 0 45 8 15 10 18 9 0 0 1 0 21 11 9 17 21 0 0 0 2 2 7 29 5 0 28 0 0 0 3 39 20 17 27 45 64 0 0 0 0 1 1 7 9 53 2 29 38 30 23 0 2 2 7 29 5 0 28 0 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 15 17 11 23 23 29 43 21 0 2 16 19 12 23 20 62 4 3</td> <td>2 37 9 57 12 28 59 20 0 0 32 3 20 44 22 55 11 58 11 1 0 0 0 1 32 32 25 20 9 19 8 33 0 0 12 3 25 45 13 16 44 71 33 0 0 12 3 25 45 13 22 39 31 2 0 0 0 0 1 26 36 32 55 23 22 16 0 29 0 1 0 2 0 39 43 2 35 41 29 0 1 0 3 11 16 45 8 25 36 25 10 4 0 1 0 21 16 11 1 33 42 0 0 0 0 2 25 14 36 7 66 40 20 0 0 0 3 23 37 22 4 71 44 30 0 0 0 1 50 2 56 8 10 74 23 33 7 0 2 6 18 17 5 6 28 47 23 0 0 3 14 11 30 3 27 35 0 0 0 1 0 43 16 47 87 23 23 5 0 0 3 18 25 12 26 21 65 5 0 0 3 18 25 12 26 21 65 5 0 0 1 2 28 20 28 20 5 23 0 0 0 1 2 28 20 28 20 5 23 0 0 0 1 2 31 28 0 20 21 50 81 2 0 0 3 18 25 12 26 21 55 50 0 1 2 1 3 9 7 29 11 43 41 0 22 2 31 28 0 20 21 50 81 2 0 3 3 18 33 53 61 43 29 9 0 0 0 1 1 4 46 37 21 5 36 39 18 0 0 1 1 8 16 11 33 15 32 85 0 0 0 1 1 8 16 11 33 43 29 9 0 0 0 1 1 8 16 11 33 43 29 9 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 18 26 18 13 43 25 9 0 0 0 1 1 14 46 37 21 5 36 39 18 0 0 2 14 4 20 0 21 28 42 9 0 0 0 1 1 16 38 24 48 8 19 19 14 5 0 6 2 2 3 21 7 18 0 0 10 5 0 0 0 3 3 19 38 20 52 40 40 27 23 0 4 1 0 45 8 15 10 18 9 0 0 6 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 3 3 4 25 15 38 22 38 16 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 1 1 5 17 11 23 23 29 43 21 0 0</td> <td>2</td> <td>2</td>	2 37 9 57 12 28 59 20 0 0 0 3 20 44 22 55 11 58 11 1 0 1 32 32 22 52 20 9 19 8 33 0 0 2 27 10 3 16 44 71 33 0 0 3 25 45 13 22 39 31 2 0 0 1 26 36 32 55 23 22 16 0 29 2 0 39 43 2 35 41 29 0 1 3 11 16 45 8 25 36 25 10 4 1 0 21 16 11 1 33 42 0 0 2 25 14 36 7 66 40 20 0 0 3 23 37 22 4 71 44 30 0 0 1 50 2 56 8 10 74 23 33 7 2 6 18 17 5 6 28 47 23 0 3 14 11 30 3 27 35 0 0 0 1 0 43 16 47 87 23 23 5 0 0 1 0 43 16 47 87 23 23 5 0 0 1 0 43 16 47 87 23 23 5 0 0 1 2 13 9 7 29 11 43 41 0 2 2 13 9 7 29 11 43 41 0 2 31 28 0 20 21 50 81 2 0 3 18 25 12 26 21 65 5 0 0 1 2 13 28 0 20 21 50 81 2 0 3 18 33 53 61 43 29 9 0 0 1 8 16 11 33 15 32 85 0 0 1 8 16 37 21 5 36 39 18 0 2 1 1 5 17 60 25 57 1 8 0 3 14 46 37 21 5 36 39 18 0 3 15 12 5 56 44 4 59 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 1 18 24 24 8 19 19 14 5 0 2 23 21 7 18 0 10 5 0 0 3 19 38 20 52 40 40 27 23 0 1 0 45 8 15 10 18 9 0 0 1 0 21 11 9 17 21 0 0 0 2 2 7 29 5 0 28 0 0 0 3 39 20 17 27 45 64 0 0 0 0 1 1 7 9 53 2 29 38 30 23 0 2 2 7 29 5 0 28 0 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 7 9 53 2 29 38 30 23 0 2 2 7 24 34 17 13 18 3 0 0 1 15 17 11 23 23 29 43 21 0 2 16 19 12 23 20 62 4 3	2 37 9 57 12 28 59 20 0 0 32 3 20 44 22 55 11 58 11 1 0 0 0 1 32 32 25 20 9 19 8 33 0 0 12 3 25 45 13 16 44 71 33 0 0 12 3 25 45 13 22 39 31 2 0 0 0 0 1 26 36 32 55 23 22 16 0 29 0 1 0 2 0 39 43 2 35 41 29 0 1 0 3 11 16 45 8 25 36 25 10 4 0 1 0 21 16 11 1 33 42 0 0 0 0 2 25 14 36 7 66 40 20 0 0 0 3 23 37 22 4 71 44 30 0 0 0 1 50 2 56 8 10 74 23 33 7 0 2 6 18 17 5 6 28 47 23 0 0 3 14 11 30 3 27 35 0 0 0 1 0 43 16 47 87 23 23 5 0 0 3 18 25 12 26 21 65 5 0 0 3 18 25 12 26 21 65 5 0 0 1 2 28 20 28 20 5 23 0 0 0 1 2 28 20 28 20 5 23 0 0 0 1 2 31 28 0 20 21 50 81 2 0 0 3 18 25 12 26 21 55 50 0 1 2 1 3 9 7 29 11 43 41 0 22 2 31 28 0 20 21 50 81 2 0 3 3 18 33 53 61 43 29 9 0 0 0 1 1 4 46 37 21 5 36 39 18 0 0 1 1 8 16 11 33 15 32 85 0 0 0 1 1 8 16 11 33 43 29 9 0 0 0 1 1 8 16 11 33 43 29 9 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 8 16 11 33 45 32 85 0 0 0 1 1 18 26 18 13 43 25 9 0 0 0 1 1 14 46 37 21 5 36 39 18 0 0 2 14 4 20 0 21 28 42 9 0 0 0 1 1 16 38 24 48 8 19 19 14 5 0 6 2 2 3 21 7 18 0 0 10 5 0 0 0 3 3 19 38 20 52 40 40 27 23 0 4 1 0 45 8 15 10 18 9 0 0 6 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 3 3 4 25 15 38 22 38 16 0 0 0 0 2 2 7 29 5 0 28 0 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 3 4 25 15 38 35 36 18 0 0 0 0 1 1 5 17 11 23 23 29 43 21 0 0	2	2

Table 5(7) EFFECTIVE RAINFALL (10 days, Paddy for Rayong River Basin)

YEAR	10-DAY ORDER	APR	MAY	JUN	JUL	AUG	SEP	oct	NOV	DEC	JAN	FEB	(Un1 MAR	t: mm)
	ORDER											FED		TOTAL
1968	1	0	108	118	54	30	2	54	17	14	54	34	0	
	2	0	.0	17	29	43		22	11	0	39	0	98	
	3	0	21	102	8	0	44	16	0		11	ŏ	0	994
1969	1	31	28	23	38	22					_			
2303	2	16	6	23	58 65	32 52		61	68	0	. 0	23	0	
	3	0	136	41	9	52 44		11	0	0	37	108	0	
	_		130	***		***	24	84	0	0	23	. 0	69	1,162
1970	1	42	28	83	39	77	15.	51	10	45	o	0	4	
	2	58	126	9	б	28	. 89	33	7	61	0	0	5	- 4
	3	35	3	70	43	22	37	.8	71	. 26	0	14	19	1,164
1971	- 1	0	64	14	10	. 5	13	54	0	0	0		•	
	2	20	54	34	12	40	49	47	. 0	0	0	0	0 0	
	3	41	35	1	33	86	103	42	0	35	0	0 0	9	801
						00	1,03	-12	Ū	33	U	· ·	9	801
1972	1	122	0	43	1	7	106	31	16	0.	0	0	30	
	2	1	17	47	16	10	75	35	31	0	18	Ö	11	
	3	10	4	68	29	0	21	2	51	0	2	0	32	836
1973	1	0	26	91	. 1	32	61	95	21	19	0	0	7	
	2	4	109	50	67	21	41	0	59	0	0	ő	9	
	3	29	59	12	11.	51	73	45	0	ŏ	Ö	28	13	1,034
1974	,	20	1.0											
19/4	1 2	32 42	19 86	0	10	29	66	125	43	0	12	0	0	
	3	60	62	44	0	70	24	80	12	0	50	0	42	
	3	60	62	35	49	15	102	40	0	0	1	0	20	1,170
1975	1	20	95	64	1.3	68	60	77	25	0	0	32	14	
	2	0	33	4	73	18	20	24	13	0	0	.8	11	
	3	34	40	32	0	21	57	97	0	0	0	0	16	969
1976	1	18	111	14	20	25	58	11	36	•	•			
	2	9	34	0	8	37	68	107	. 0	0	3 0	0	9	
	3	46	18	15	0	119	1	60	. 0	0	17	0	0	844
1077												Ū	•	
1977	1	52	85	34	77	20		63	10	0	41	28	0	
	2 3	4 0	13	37	20	6	11	71	0	0	0	13	0	
	3	U	27	9	85	29	91	3	0	0	24	47	0	925
1978	1	0	8	25	54	48	12	46	9	0	0	0 -	0	
	2	52	89	128	30	30	101	10	9	0	0	48	ō	
	. 3	8	23	9	46	8	23	34	0	0	0	0	10	860
1979	1	9	26	7	26	3	12	13					_	
	2	53	9	98	2	0	60	. 0	0	-10 0	0	0	0	
	3	10	ő	.63	50	11	80	60	0	0	0	0	30	667
•					-	~-	30	uu.	Ū	J	u	J	35	667
1980	1	0	18	20	9	- 22	41	24	34	O	0	12	33	
	2	78	7	120	0	61	29	41	4	0	0	1	2	
	3	2	34	21	104	50	40	66	10	0	0	3	0	886
1981	1	0	54	49	5	80	19	29	61	0	5	0	0	
	2	34	57	7	25	47	68	60	57	0	21	0	0	
	3 ·	26	68	72	30	. 0	54	30	31	o	0	0	87	1,076
							4.5		_	•	-	-		_, _, _

Table 5(8) EFFECTIVE RAINFALL (10 days, Upland Crops for Rayong River Basin)

		·											(Uni	t: mm)
YEAR	10-DAY ORDER	APR	МАЧ	JUN	JUL	AUG	SEP	ост	VOV	DEC	JAN	FEB	MAR	TOTAL
1968	1	0	71	74	37	21	2	36	14	10	36	25	o	
	2	0	. 0	10	20	30	32	15	8	0	26	0	65	
	3	0	14	64	5	0	29	11	0	0,	8	0	0	663
1969	1	23	19	16	26	21	27	40	47	0	0	15	o	
	2	11	4	. 1	44	34	59	7	- 0	0	26	71	. 0	
	3	0	90	29	5	29	16	56	: 0	. 0	16	0	48	780
.970	1	28	19	. 55	26	51	9	35	7	30	0	0	3,	
	2 .	38	83	. 5	4	18	59	24	4 48	40 17	0 0	0 10	4 15	775
	3	23	2	47	29	14	25	3	48	T.	V	10	13	
971		0	42	10	6	4	8	37	0	0	0	0	0	
	2	14	36	23	9	26	33	31	0	0 26	0	0 0	0 7	539
	3	29	23	. 1	23	56	69	26	, 0	20	U	U		559
.972	1,	80	.0	29	0	5	70	22	11	0	0	0	21	
	2	1	14	31	12	8	49	24	21	0	14	0	8	500
	3	6	3	45	21	0	14	2	34	0	1	0	22	568
973	1	0	17	60	1	21	41	62	15	14	0	0	4	
	2	3	71	33	47	14	27	0	41	0	0	0	8	701
	3	22	39	7	8	35	49	30	0	0	0	22	10	701
974	1	21	12	0	7	19	44	77	30	0	9	0	0	
	2	28	56	31	0	47	15	50	8	0	35	0	29	226
	3	39	41	25	35	10	68	24	0	0	1	0	15	776
975	. 1	14	64	43	9	46	40	51	19	0	0	24	10	
	2	0	21	3	50	12	13	16	9	0	0	6	8	657
	3	24	27	21	0	14	37	64	0	0	0	0	12	657
1976	1	12	73	11	16	16	38	7	27	0	2	0	7	
	2	7	23	0	. 6	25	45	72	0 0	0	0 14	0 0	0 0	575
	3	32	11	11	0	80	0	40	U	U	1.4	U	Ū	3,5
977	1	38	56	24	51	14	17	41	7	0	29	19	0	
	2	3	8	26	.13	4	6	47	0	0	0 17	9	0	624
	3	0	18	6	57	20	60	2	0	0	17	32	Ų	024
978	1	0	5	17	36	33	. 8	31	7	0	0	0	0	
	2	37	59	85	20	21	66	7	6	0	0	34	0 7	580
	3	6	16	5	30	5	15	24	0	0	0	0	,	350
L979	1	6	20	5	18	2	-8	9	0	7	0	0	0	
	2	37	6	64	0	0	39	0	0	0	0	0	22	453
	3	7	0	41	35	8	52	42	0	0	0	0	25	400
1980	1	0	. 13	13	6	15	27	16	24	0	0	9	25	
	2	55	5	79	0	40	19	27	2	0	0	1	1	EOG
	3	1	24	14	69	33	27	43	8	0	0	2	0	598
1981	1	0	36	32	3	52	13	19	40	0	3	0	0	
	2	24	38	5	18	31	45	39	37	0	15	0	0	71.
	3	19	44	47	22	0	35	19	21	0	. 0	. 0	60	71.7

Table 6(1) CROPPING INTENSITY
(Khlong Luang Scheme)

	Crop		ing Intensity	,
	T	Wet Season	Dry Season	Total
1.	Cropping intensity of 1.5			
	(1) Paddy, local variety	0.2	Saul S	0.2
	improved variety	0.8	0.115	0.915
	(2) Groundnuts	·	0.23	0.23
	(3) Mungbeans		0.0625	0.0625
	(4) Vegetables	· · · · · · · · · · · · · · · · · · ·	0.0925	0.0925
	Total	1.0	0.5	1.5
2.	Cropping intensity of 1.4			e e
	(1) Paddy, local variety	0.2	· 	0.2
	improved variety	0.8	<u> </u>	0.8
	(2) Groundnuts	- .	0.245	0.245
	(3) Mungbeans	· ~	0.0625	0.0625
	(4) Vegetables	-	0.0925	0.0925
	Total	1.0	0.4	1.4
3,	Cropping intensity of 1.3			
	(1) Paddy, local variety	0.2		0.2
	improved variety	0.8		8.0
	(2) Groundnuts	Mar.	0.145	0.145
	(3) Mungbeans	_	0.0625	0.0625
	(4) Vegetables	•••	0.0925	0.0925
	Total	1.0	0.3	1.3

Table 6(2) CROPPING INTENSITY
(Ban Khai Extension Scheme)

	Crop		ng Intensity	
	1	Wet Season	Dry Season	Total
1.	Cropping intensity of 1.5			
	(1) Paddy, local variety	0.185	Prode	0.185
	improved variety	0.74	0.145	0.915
	(2) Groundnuts	· 	0.29	0.29
	(3) Vegetables	. -	0.065	0.065
	(4) Tree crops	(0.075)	0.075	0.075
	Total	0.925	0.575	1.5
2.	Cropping intensity of 1.4			
	(1) Paddy, local variety	0.185		0.185
	improved variety	0.74	0.112	0.852
	(2) Groundnuts		0.223	0.223
	(3) Vegetables	_	0.065	0.065
	(4) Tree crops	(0.075)	0.075	0.075
	Total	0.925	0.475	1.4
3.	Cropping intensity of 1.3			
	(1) Paddy, local variety	0.185	-	0.185
	improved variety	0.74	0.078	0.818
	(2) Groundnuts	_	0.157	0.157
	(3) Vegetables	-	0.065	0.065
	(4) Tree crops	(0.075)	0.075	0.075
	Total	0.925	0.375	1.3

Table 6(3) CROPPING INTENSITY
(Ban Khai Existing Scheme)

Crop	Croppin	g Intensity	
	Wet Season	Dry Season	Total
1. Cropping intensity of 1.5			
(1) Paddy, local variety	0.2		0.2
improved variety	0.8	0.145	0.94
(2) Groundnuts		0.29	0,29
(3) Vegetables	-	0.065	0.06
Total	1.0	0.5	1,5
2. Cropping Intensity of 1.4			
(1) Paddy, local variety	0.2		0.2
improved variety	0.8	0.112	0.91
(2) Groundnuts	- Case	0.223	0.22
(3) Vegetables	-	0.065	0.06
Total	1.0	0.4	1.4
. Cropping intensity of 1.3	·	4.	-
(1) Paddy, local variety	0.2	- -	0.2
improved variety	0.8	0.078	0.878
(2) Groundnuts	***	0.157	0.15
(3) Vegetables		0.065	0.06
Total	1.0	0.3	1.3

Table 6(4) CROPPING INTENSITY

(Thap Ma Scheme)

	Crop		ing Intensity	0.185 45 1.215 9 0.29 65 0.065 75 1.8 0.185 45 1.115 9 0.29 65 0.065 75 1.7 0.185 1.7		
		Wet Season	Dry Season	Total		
1.	Cropping intensity of 1.8					
	(1) Paddy, local variety	0.185		0.185		
	improved variety	0.74	0.445	1.215		
	(2) Groundnuts		0.29	0.29		
	(3) Vegetables	· •	0.065	0.069		
	(4) Tree crops	(0.075)	0.075	0.075		
	Total	0.925	0.875	1.8		
2.	Cropping intensity of 1.7					
	(1) Paddy, local variety	0,185		0,185		
	improved variety	0.74	0.345	1.115		
	(2) Groundnuts		0.29	0.29		
	(3) Vegetables	_ /	0.065	0.065		
	(4) Tree crops	(0.075)	0.075	0.075		
	Total	0.925	0.775	1.7		
	Cropping intensity of 1.6					
	(1) Paddy, local variety	0.185		0.185		
	improved variety	0.74	0.245	1.015		
	(2) Groundnuts	· · · · · · · · · · · · · · · · · · ·	0.29	0.29		
	(3) Vegetables	· _ ·	0.065	0.065		
	(4) Tree crops	(0.075)	0.075	0.075		
	Tota1	0.925	0.675	1.6		
	Cropping intensity of 1.5					
	(1) Paddy, local variety	0.185		0,185		
	improved variety	0.74	0.145	0.915		
	(2) Groundnuts	.	0.29	0.29		
	(3) Vegetables	-	0.065	0.065		
	(4) Tree crops	(0.075)	0.075	0.075		
	Total	0.925	0.575	1.5		
			•			

Table 7 (1) UNIT IRRIGATION DIVERSION REQUIREMENT (Monthly, Khlong Luang Scheme, Cropping Intensity; 180%)

0.11 0.60 0.29 0.37 0.59 0.81 0.18 0.71 0.25 0.37 0.77 1.02 0.18 0.71 0.25 0.37 0.77 1.02 0.38 0.52 0.29 0.29 0.83 0.64 0.29 0.37 0.83 0.72 0.46 0.07 0.26 0.37 0.83 0.72 0.24 0.07 0.29 0.37 0.83 0.83 0.56 0.25 0.28 0.37 0.83 0.95 0.70 0.69 0.26 0.37 0.83 0.95 0.09 0.77 0.30 0.37 0.83 0.95 0.27 0.98 0.30 0.37 0.83 0.95 0.26 0.27 0.37 0.83 0.95 0.27 0.37 0.83 0.95 0.24 0.41 0.25 0.37 0.83 0.95
0.60 0.29 0.37 0.71 0.25 0.37 0.52 0.29 0.29 0.36 0.30 0.37 0.52 0.21 0.36 0.07 0.24 0.37 0.34 0.29 0.37 0.25 0.28 0.37 0.69 0.26 0.37 0.69 0.26 0.37 0.69 0.26 0.37 0.98 0.30 0.37
0.71 0.25 0.37 0.52 0.29 0.29 0.36 0.30 0.37 0.81 0.26 0.37 0.07 0.24 0.37 0.25 0.28 0.37 0.69 0.26 0.37 0.98 0.30 0.37 0.65 0.25 0.37 0.98 0.30 0.37
0.52 0.29 0.29 0.83 0.36 0.37 0.83 0.52 0.21 0.36 0.83 0.81 0.26 0.37 0.83 0.07 0.29 0.37 0.83 0.25 0.28 0.37 0.83 0.41 0.25 0.37 0.83 0.41 0.25 0.37 0.83 0.41 0.25 0.37 0.83
0.36 0.30 0.37 0.83 0.52 0.21 0.36 0.83 0.81 0.26 0.37 0.83 0.07 0.29 0.37 0.83 0.25 0.28 0.37 0.83 0.69 0.26 0.37 0.80 0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.52 0.21 0.36 0.83 0.81 0.26 0.37 0.83 0.07 0.24 0.37 0.71 0.25 0.28 0.37 0.83 0.69 0.26 0.37 0.80 0.77 0.30 0.37 0.80 0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.81 0.26 0.37 0.83 0.07 0.24 0.37 0.71 0.34 0.29 0.37 0.83 0.25 0.26 0.37 0.83 0.77 0.30 0.37 0.80 0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.07 0.24 0.37 0.71 0.34 0.29 0.37 0.83 0.25 0.28 0.37 0.83 0.69 0.26 0.37 0.79 0.77 0.30 0.37 0.80 0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83
0.34 0.29 0.37 0.83 0.25 0.28 0.37 0.83 0.69 0.26 0.37 0.79 0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.25 0.28 0.37 0.83 0.69 0.26 0.37 0.79 0.77 0.30 0.37 0.80 0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.69 0.26 0.37 0.79 0.77 0.30 0.37 0.80 0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.77 0.30 0.37 0.80 0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.98 0.30 0.37 0.83 0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.65 0.27 0.37 0.83 0.41 0.25 0.37 0.83
0.41 0.25 0.37 0.83 0.9

Table 7 (2) UNIT IRRIGATION DIVERSION REQUIREMENT (Monthly, Khlong Luang Scheme, Cropping Intensity; 150%)

(Unit : lit/s/ha)	MAR		0.20	0.17	0.24	0.22	0.25	0.19	0.25	0.19	0.24	0.17	0.28	0.17	0.25	0.31	
(Unit	FEB		0.38	0.50	0.28	0.43	0.50	0.31	0.36.	0.39	0.46	0.44	0.43	0.45	0.47	0.46	
-	JAN		0.29	0.42	0.46	0.46	0.46	0.46	0.38	0.46	0.46	0.43	0.44	0.46	0.46	0.46	•.
	DEC		0.32	0.32	0.24	0.32	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	
-	NOV		0.29	0.25	0.29	0.30	0.21	0.26	0.24	0.39	0.28	0.26	0.30	0.30	0.27	0.25	
• •	CCT		09.0	0.71	0.52	0.36	0.52	0.81	0.07	0.34	0.25	69.0	0.77	0.98	0.65	0.41	
	SEP		0.11	0.18	0.38	0.22	0	0.29	0.46	0.24	0.56	0.70	0.08	0.27	0.46	0:24	
	AUG	- 2	0.93	0.75	0.82	0.33	1.20	0.58	0.75	0.84	1.38	1.05	1.22	10.1	0.88	1.23	
	JUE		0.57	09.0	0.58	0.72	0.74	0.49	0.50	0.45	0.43	0.53	0.54	99.0	0.61	0.53	
	CON		0.04	0.05	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	
	MAY		0,	0	0	0	0	0	0	0	0	0	0	0	0	0	
	APR		0.05	0.04	90.0	0.05	0.04	0.05	0.05	0.07	90.0	0.05	90.0	90.0	90.0	0.03	
	YEAR		1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	

Table 7 (3) UNIT IRRIGATION DIVERSION REQUIREMENT (Monthly, Khlong Luang Scheme, Cropping Intensity, 130%)

												(511/2/57	
YEAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	ញ ធ្ម	MAR	
													1
1968	0	0	0.04	0.57	0.93	0.11	09.0	0.26	0.23	0.13	0.16	0.04	
1969	0	0	0.05	09.0	0.75	0.18	0.71	0.23	0.23	0.22	0.23	0.03	
1970	0	0	0.03	0.58	0.82	0.38	0.52	0.26	0.17	0.24	0.11	0.05	
1971	0	0	0.04	0.72	0.33	0.22	0.36	0.27	0.23	0.24	0.19	0.05	
1972	0	0	0.04	0.74	1.20	0	0.52	0.19	0.22	0.24	0.23	90.0	•
1973	0	0	0.05	0.49	0.58	0.29	0.81	0.24	0.23	0.24	0.11	0.04	
1974	0	0	0.05	0.50	0.75	0.46	0.07	0.22	0.23	0.19	0.15	90.0	
1975	0	0	0.05	0.45	0.84	0.24	0.34	0.26	0.23	0.24	0.17	0.03	
1976	0	0	0.05	0.43	1.38	0.56	0.25	0.26	0.23	0.24	0.20	.50.0	
1977	0	0	0.05	0.53	1.05	0.70	69.0	0.24	0.23	0.23	0.19	0.03	
1978	0	0	0.05	0.54	1.22	0.08	0.77	0.27	0.23	0.23	0.19	0.07	
1979	0	0	0.05	99.0	1.01	0.27	0.98	0.27	0.23	0.24	0.20	0.03	
1980	0	0	0.04	0,61	0.88	0.46	0.65	0.25	0.23	0.24	0.21	90.0	
1981	0	0	0.05	0.53	1.23	0.24	0.41	0.23	0.23	0.24	0.20	80.0	

(Monthly, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 180%) Table 7 (4) UNIT IRRIGATION DIVERSION REQUIREMENT

FEB MAR	وبر 0 دور 0		1.07 0.85	1.15 0.92	1.15 0.68	0.98 0.84	1.15 0.72	0.91 0.80	1.15 0.92	0.65 0.96	0.88 0.92	1.15 0.71	1.05 0.82	1.15 0.63
JAN	0.52		16.0	0.91	0.83	0.91	0.66	0.91	0.82	0.66	0.91	0.91	0.91	0.81
DEC	0.40	0.43	0.17	0.35	0.43	0.39	0.43	0.43	0.43	0.43	0.43	0.41	0.43	0.43
NOV	0.25	0.22	0.19	0.28	0.18	0.20	0.23	0.24	0.24	0.27	0.27	0.28	0.23	0.13
OCT	0.53	0.26	0.53	0.32	0.63	0.33	0.11	0.09	0.17	0.34	0.54	09.0	0.37	0.42
ស ម ស	69.0	0.33	0.41	0.27	0.04	0.21	0.10	0.43	0.49	0.49	0.44	0.34	09.0	0.41
AUG	1.04	0.76	0.76	0.74	1.33	0.88	0.83	0.86	0.48	1.13	0.97	1.35	0.73	0.76
JUL	0.55	0.51	0.55	0.62	0.63	0.57	0.61	0.56	0.67	0.37	0.47	09.0	0.51	0.60
ZS 5	0.03	0.04	0.03	0.04	0.03	0.03	0.04	0.04	0.05	0.04	0.03	0.03	0.03	0.03
MAY	0.01		0	0	0.03	0	0	0	0	0.01	0.01	0.02	0.02	0
APR	0.34	0.28	0.17	0.26	0.17	0.30	0.17	0.28	0.25	0.27	0.26	0.25	0.24	0.26
YEAR	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981

(Monthly, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 150%) Table 7 (5) UNIT IRRIGATION DIVERSION REQUIREMENT

Table 7 (6) UNIT IRRIGATION DIVERSION REQUIREMENT (Monthly, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 130%)

/ha)															
(Unit : lit/s/ha)	MAR	0.08	0.10	0.15	0.17	0.11	0.14	0.11	0.13	0-17	0.18	0.17		1 7	0.09
(Unit	FEB	0.25	90.0	0.30	0.33	0.33	0.26	0.33	0.24	0.33	0 14	0.23	0.33	0.29	0.33
	JAN	0.12	0.19	0.31	0.31	0.27	0.31	0.19	0.31	0.27	0.19	0.31	0.31	0.31	0.26
	DEC	0.28	0.31	0.10	0.24	0.31	0.28	0.31	0.31	0.33	0.31	0.31	0.29	0.31	0.31
	NOV	0.23	0.21	0.18	0.26	0.17	0.19	0.22	0.22	0.22	0.25	0.25	0.26	0.21	0.12
	OCT	0.53	0.26	0,53	0.32	0.63	0.33	0.11	0.09	0.17	0.34	0.54	0.60	0.37	0.42
	SEP	0.69	0.33	0.41	0.27	0.04	0.21	0.10	0.43	0.49	0.49	0.44	0.34	09.0	0.41
	AUG	1.04	0.76	0.76	0.74	1.33	0.88	0.83	0.86	0.48	1.13	0.97	1.35	0.73	0.76
	Inc	0.55	0.51	0.55	0.62	0.63	0.57	0.61	0.56	0.67	0.37	0.47	09.0	0.51	09.0
	NDD	0.03	0.04	0.03	0.04	0.03	0.03	0.04	0.04	0.05	0.04	0.03	0.03	0.03	0.03
	MAY	0.01	0	0	0	0.03	0	0	0	0	0.01	0.01	0.02	0.02	0
	APR	0.07	90.0	0.02	0.05	0.02	90.0	0.02	90.0	0.04	0.05	0.05	0.04	0.05	0.05
	YEAR	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981

Table 7 (7) UNIT IRRIGATION DIVERSION REQUIREMENT (Monthly, Existing Ban Khai Scheme, Cropping Intensity; 180%)

										`	(Unit : 1	lit/s/ha)
YEAR	APR	MAY	JUN	טטב	AUG	SEP	OCT	NOV	DEC	JAN	EB	MAR
1968	0.27	0	0.03	0.59	1.13	0.75	0.57	0.27	0.34	0.50	06.0	0.55
1969	0.22	0	0.05	0.55	0.82	0.35	0.28	0.22	0:37	0.63	0.42	0.64
1970	0.15	0	0.04	0.60	0.82	0.44	0.57	0.21	0.15	0,85	1.00	0.78
1971	0.21	O	0.05	0.67	08.0	0.29	0.34	0.30	0.31	0.85	7.08	0.85
1972	0.15	0	0.04	0.68	1.44	0.05	0.68	0.19	0.37	0.78	1.08	0.63
1973	0.24	0	0.04	0.61	0.95	0.22	0.36	0.21	0.33	0.85	0.93	0.78
1974	0.15	0	0.05	0.66	0.89	0.11	0.12	0.24	0.37	0.62	1.08	0.66
1975	0.22	0	0.05	09.0	0.93	0.47	60.0	0.26	0.37	0.85	0.86	0.74
1976	0.21	0	0.05	0.72	0.52	0.53	0.18	0.26	0.37	0.77	80.1	0.85
1977	0.22	0	0.05	0.40	1.22	0.53	0.37	0.29	0.37	0.62	0.62	88.0
1978	0.21	0	0.04	0.51	1.05	0.48	0.58	0.28	0.37	0.85	0.83	0.84
1979	0.21	0	0.04	0.61	1.46	0.37	0.65	0.30	0.35	0.85	1.08	0.66
1980	0.19	O	0.04	0.55	0.79	0.64	0.40	0.25	0.37	0.85	0.98	0.76
1981	0.21	0	0.04	0.65	0.82	0.44	0.45	0.14	0.37	0.76	1.08	0.58

Table 7 (8) UNIT IRRIGATION DIVERSION REQUIREMENT (Monthly, Existing Ban Khai Scheme, Cropping Intensity; 150%)

Да.)							_						•		
lit/s/ha)	MAR	C C	9 0	0 0	20.0) C	24. 6	1 W	0 0		0 0) C	n (2 6	0.22
(Unit:		ر 4) () C	: ל על ל על	י ט ע	0 50		0 0	י פ זי ט	0 0	9 6			0.56
	JAN	0.24	, 4 , 4) Q	0 0	0.43	0.48	, v	ο ο) (°	2 C	0.32		ο ο α	0.42
	DEC	0.29	0.32	0.11	0.26	0.32	0.28	0.32	2 to 0	\$ · C	20.0	28.0	0.30	0 2 2	0.32
	NOV	0.27	0.22	0.21	0.30	0.19	0.21	0.24	0.26	0,26	0.29	0.28	0.30	0.25	0.14
	OCT	0.57	0.28	0.57	0.34	0.68	0.36	0.12	0.0	0.18	0.37	0.58	0.65	0.40	0.45
	SEP	0.75	0.35	0.44	0.29	0.05	0.22	0.11	0.47	0.53	0.53	0.48	0.37	0.64	0.44
	AUG	1.13	0.82	0.82	0.80	1.44	0.95	68.0	0.93	0.52	1.22	1.05	1.46	0.79	0.82
	JUE	0.59	0.55	09.0	0.67	0.68	0.61	0.66	0.60	0.72	0.40	0.51	0.61	0.55	0.65
	JON	0.03	0.05	0.04	0.05	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04
	MAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APR	60.0	0.07	0.05	0.07	0.05	0.08	0.05	0.07	0.07	0.07	0.07	0.07	90.0	0.07
	YEAR	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981

Table 7 (9) UNIT IRRIGATION DIVERSION REQUIREMENT (Monthly, Existing Ban Khai Scheme, Cropping Intensity, 130%)

											nurc :	(Ourc : Tir/s/na)
YEAR	APR	MAY	Nich	JUL	AUG	SEP	OCT	NOV	DEC	JAN	EEB	MAR
												•
1968	0	0	0.03	0.59	1.13	0.75	0.57	0.25	0.22	0.10	0.20	0.04
1969	0	0	0.05	0.55	0.82	0.35	0.28	0.21	0.25	0.15	0.04	0.05
1970	0		0.04	09.0	0.82	0.44	0.57	0.20	0.08	0.25	0.23	80.0
1971	0	0	0.05	0.67	0.80	0.29	0.34	0.28	0.20	0.25	0.26	01.0
1972	0	0	0.04	0.68	1.44	0.05	0.68	0.18	0.25	0.22	0.26	90.0
1973	0	0	0.04	0.61	0.95	0.22	0.36	0.20	0.22	0.25	0.21	0.08
1974	0	0	0.05	99.0	0.89	0.11	0.12	0.23	0.25	0.15	0.26	0.05
1975	0	0	0.05	09.0	0.93	0.47	60.0	0.24	0.25	0.25	61.0	0.07
1976	0	0	0.05	0.72	0.52	0.53	0.18	0.24	0.25	0.22	0.26	01.0
1977	0	0	0.05	0.40	1.22	0.53	0.37	0.27	0.25	0.15	0.11	0.10
1978	0	0	0.04	0.51	1.05	0.48	0.58	0.26	0.25	0.25	0.18	60.0
1979	0	0	0.04	0.61	1.46	0.37	0.65	0.28	0.23	0.25	0.26	90-0
1980	0	0	0.04	0.55	0.79	0.64	0.40	0.23	0.25	0:25	0.22	0.08
1981	0	0	0.04	0.65	0.82	0.44	0.45	0.13	0.25	0.21	0.26	0.04

Table 7(10) UNIT IRRIGATION DIVERSION REQUIREMENT (10 days, Khlong Luang Scheme, Cropping Intensity; 150%)

YEAR	10-DAY ORDER	APR	MAY	NDS	JUL	AUG	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	E 00	10.5	5	u)	- [lit/s/ha)
	1							;)	202	DEC.	JAN	FEB	MAR
1968	_	-	C	(•				٠				
} } !	4 6	7 0	> (70.0	0.29	0.72	1.03	'n		r.	~	-	. 5
	v (?	၁	•	۲.	œ	0	S	~	۳.	i -	! <	P -
	γ)	•	0	4	ო	ς.	0	0,56	0.0	20.0) 1.0 1.0 1.0	2 . 0 4. 0 2. 0	7
1969	ъ.	0.06	C	\subset	C	c	•	: :	1	}	• .	γ.	!
	7	C	o c) () (L-73	8/.0	1.06	7	(r)	4	ι,	·Μ
	ייוני	* C) (m 0.0	`.	4		ო.	ď	٣.	m	4	, (
	η.	•	∍	0.12	œ	r.	0.49	φ.	0.26	0.34	0,50	0 44	77.0
1970	ri	0.07	0	0.01	. ~	0	ď	α	. 5	•	, ,	1 4 :	•
		0.07	0	C	α	,	•	0.	4	۲.	0.42		m.
	m	0.02	· c	000	# c	0 0	91.0	0.40	0.22	0.31	•	4	٦.
; [(ı		•		•	0	ŗ.	Μ.	2	c.	0.50	0	0.18
T/ 5T	-1	0.12	0	0.01	3	1.44	٠,	-	5		•	(
	~	0.04	0	0	α		, –	1 L	ť (•	Ţ.	λ,	4.
	ო	0.03	C		100) () 	79.0	0.22	0,32	0.47	4	2
1	ı	! •)		>	5	٠.	Ŋ	?	ς,	5	0.44	0.08
12/7	⊣ (0.02	0	0.01	ζ.	4	0	0.64		0	_	11	-
	7 (90.0	0	0	0.81	1.46		Ċ) (-	, () (0.00	0.40
	m		0	۳-j	٦	σ			1 °C	•	t	4,	
1078	.	r	(,	l	•	•	9	7	٠,	ų.	<u>س</u>	۲.
·	4 6	7.0) (0	C.	1.24	0.82	0	4	Υ.	Ċ,	ц	. 5
	V (90.0	0	0.02	0.62	1.46	0	ω	2		. 4	, <	ji r
	າງ	0.02	0	П	Ŋ	1.01	0.27		0.26	0.34	, C	# α # ο	20.0
1979	М	0.12	0	C		C	ı	C	,)		
	0	0.07	0	0.02	, c		サ / L	L	0.43	0.31	0.42	0.56	Υ
	ო	0.01	· C	• -) (٠	, ,	N	ω,	4	4.	0.11
(2	>	+		7)	0	φ.	۲.	m,	υ	S	٦,
1980	급 (0	0.01	ω.	ω		4	0	ſ	*	. 5	•
	7	0.04	0	0	0.69	1.28	0.84	0.93	000	4 c	7,40	•	
	m	0.02	0	H	w.	Ø		4	• 1 c	i Ju	j' Li		0 · Z
1981	 +	0	0	С	C	C	ı ti		∮ .(•	3	n •	7'	-:
	7	ر بر ر	· c			,		-!		L.	4	'n	4
	ነ ሶ	•) (50.0	0.04	1.21	0	0.89	0.21	φ,	4	4	3
	1)	⊃	!	ဖ	ι.	0.67	Ü		0.34	0.50	0.32	0.20
													;

Table 7(11) UNIT IRRIGATION DIVERSION REQUIREMENT (10 days, Khlong Luang Scheme, Cropping Intensity; 140%)

											(Unit:		lit/s/ha)
YEAR	LU-DAY ORDER	APR	MAY	JUN	JUE	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
1968	Н	0	0		S	0.72	1.03	ເດ	(**		-	_	
-	N	0	0	0.02	0.74		,	i in		. ~	• • ~		, c
	m	0	0		ω,	1.27	0	0.56	0.27	0.31	0.34	0.23	0.0
1969	Н	0	0	0.	3	3	0.78	0	-	Ċ	ď	~	· ·
	7	0	0	0.03	0.72	0.45	0			. ~		, m	# W
	m	0	0	٦.	ω	ι.	0.49	0.67	0.27	0.31	0.34	0.26	
1970	r-1	0	0	0.	.	<u>م</u>	ø.	α	4	-	T.	. (*	-
	N	0	0	0.02	0.84	0.68	0.16	0.40	0.23		, m	0.32	
	ന്	0	0	0	0	ω	ω,	m	C		0.34	•	0.03
1971	÷н	Ö	0	0.	0.27	1.44		0.14	0.43		ď	L,	0
	O.	0	0	0.02	0.80	0	0.19	ī.	ζ,	0.33	0.34	0.32	0.10
	ന	0	0	Ţ.	0.	0	!		0.27	0.31	m,	S	•
1972	н	0	0	0	4	S	0	w.	, r-l	ς.	ധ	ĸ	2
	7	0	0	0.03	0.81	1.46		0.02	0.16	0.33	0.34		0
	m	0	0	٦.	٦,	ن	0.31	ø	Ω.		m	2	0.03
1978	Н	0	0	٥.	2	ς.	0.82	0	4	ო	Z,	m	0
	N	0	0	0.02	0.62	1.46	0	0.82	0.23	ų.	, m	2	1 -
	ო	0	0	Н	ι.	0	0.27	4	ζ,	0.31	0.34	0.14	0.03
1979	Н	0	0	0	2	0	7		4.	m		(1)	0.14
	7	Q.	0	0.02	0.79	1.64	0.56	1.00	0.23	0.33	0.34	0.32	0.01
	m	0	0	Ţ.	.7	ب	0	•	.2	ω,	m	-	0.01
1980	러	0	0	0.	ω,	α	7	4	.2	ო		. m	-
	Ŋ	0	0	0.02	0.69	1.28	0.84	0.93		ω,	m	ω,	
	m	0	0		9	9	ω.	4	N	0.31	0.34	0.24	0.01
1981	Н	0	0	0.	2	0	0.50	7	2	~~	ω	۳,	Ω.
	0	0	0	0.03	0.64	1.21	: O	0.89	0.22	0.33	0.34	0.32	0.11
	m	0	0	Ţ	ø.	ΰ	0.67	2	2	ω.	က်	급.	0
	;	:											

Table 7(12) UNIT IRRIGATION DIVERSION REQUIREMENT (10 days, Khlong Luang Scheme, Cropping Intensity: 130%)

:	11t/s/ha)	MAR				0.01			•		-		0 0	2	0.14	٥.	0		0.14	0	\circ	ī	٦.;	0.08	· .	0.10	0	0	•	71.0			_		0.03
	1 1	H H H	•	0	2	0.16	(1	0.23	r- 	C	1 0			0.I4	?	7		0.26	C)	4	•	V (07.0	⊣	0.26	S	۲.		77.0	7	r-I	0	, 1 c	0.12
1,44	TO)	NH O		۲.	٥.	0.25	(ν,	91.0	3	0) () () () ()	1 (0 . Z4	7	3	(0.24	1	4		9 (2	7 .	0.24	7	2	٠, ۲	, (ų i	Ŋ	2		0.25
	, H	מפּכ	(7	0.24	4		4 (47.0	N		~	0.21	. (0.23	7	7	C	0.20	Ä	7	C	, (7,7	1 (0.23	?	ς,	c	, ,	4 (73	2	0	0.23
	MOM		. (0.20	α,	٠ ا	•) i	7	4	2	0.18	•	7 0	7	ς.	-) (վ (N	4	• 0	0.0			?	3	0		• 0		2	-	0.18
	OCT		ţ.	וו	0.57	Ŋ	.0	٠,		p.	ω	4	0.35	-	# r		ς.	Ú	# C) (٥.	0	α	0.49	, (7 (٠ : כ	ဖ	4	ر د د	\ \	t.	ᅼ	φ	0:20
	SEP			•	> (0	0.78		0 4	۲ •	0.68	\Box	ω,	'n) (ф г •	٠,	Ç.) ი		0.82	С	0.27	7	٠ (١٠ (ņ	0	0.21	0.84	, C	•	0.50	0	0.67
	AUG		7	, a	0 0	7	2	4	0.51	•	0.90	Ġ	œ	1.44) (5	ď	1.46	σ	•	2	4	1.01	- 1	יר ייר			∞	1.28	G		1.04	S	
	JUL		ζ.	r	# LE	?	2	·	0.81		0.12	ω	0	2	0.80	· C		4	0.81		1	2	φ.	0.59	ς,	70		`	'n	0.69	9		0.23	φ	Ø
	SUN		0.01	0.02			0.01					0.02	•	0.01	0.02		•		0.03			0.01	0	0.12	0.01	0.02	01.0	4	0.01	0	۲.	(To . 0	0	-
	MAY		0	0	C)	O	0	0	C	> () ()	0	0	0	•	0	0	0		0	0	0	0	0	C)	0	0	0	c) (D	0
	APR		0	Ö	0	, ,	0	0	0	c	> c)	0	0	0	0	,	0	0	0		0 (0	0	0	0	0		0	0	0	C) c) (0
1	10-DAY ORDER		et	. ~	ო	r	- ! (7	m	•	i 0	1 č	า	٦	7	m		┥ :	7	m	F	-1 (7	m	7	CI	m		Н (7	W		1.0	۱ ر	ກ
	YEAR		1968			000	n D n H			1970	,			1971			1	77/67			0	ا الا			1979			(1 20 0			1981			

(10 days, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 180%) UNIT IRRIGATION DIVERSION REQUIREMENT Table 7(13)

											(Un	(Unit: lit/s/ha)	s/ha)
YEAR	10-DAY ORDER	APR	MAX	AUC	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
1968	H		0		۲	ο.	•	•	ω,	w.	4	Ø	1.13
	7	ر .	0.03	0.02	0.62	0.80	0.39	0.63	0.19	0.39	0.46	Н,	0
	ന	⊣ .	0	0.	<u>ن</u>	4.	•		ς.	5	0	0.95	0.75
1969	ᆏ	ω.	0.03	0	C3	0	0.50	٠.	0	ω,	7	88	-
	7	0.28		0.02	0.41	0.65	0	0.78	0.21	0,39	0.47		0
	ന	r-j	0	۲.	ο.	. 7	0.84	.0	2	.5	7	1.06	0.22
1970	rri	ζ,	0,03	0.	N	m	0.97	0.34	رن	;}	7.		1.07
	C/J	0.11	0	0.02	0.76	1.05	0	0.49	0.19	0.03	0.92		0.94
	ന	o.	0	0	9	0	0.61	0.57	4	ς.	0	7	0.60
1976	<u>-</u>	0.42	0	0.	•	0	~	0.98	3	e,	7	2	ο,
	7	0.31	0	0.02	0.74	0.90	0.04	0	0.21	0.39	0.92	1.10	1.01
	ന	0.06	0	4	•	0	2	0.14	ζ.	υ.	α.	Q.	7
1977	H	2	O	0	0.12	•	0.79	0.14	•	സ	٠ د	.7	-
-	N N	0.33	0.02	0.02	0.67	1.42	1.06		0.21	0.39	0.92	0.89	10.1
	ιú	۲.	0	-1	3	•	0	0,62	ζ,	'n	7	2	7
1978	떠	υ,	90.0	•	4	. 7	1.03	4	സ	0.37	7	2	r
	7	0.13	0	0.02	0.65	1.02	0	0.78	0.20	4.	o,	m	0
	m	ri	0		ø.	ω.	0.86	'n		0.52	1.04	1.07	0.68
1979	Ħ	0.47	0.03	0	2	'n	0	<u>.</u>	4.	ω.	0.78	S	}}
	7	۲.	0	0.02	0.82	1.52	0.18	0.92	0.21	0.40		0	Ø
	ന	4	0	٥.	Φ	2	0	۲.	ζ,	Ŋ	1.04	1.07	0.51
1980	Ħ	S	0.04	0	3	0	S	7.	2	ω,	7	0	S
	7	0.04		0.02	0.84	0.49	0.74	0.39	0.21	0.40	0.93	1.08	
	m	႕	0	щ.	-	ø.	τů.	0	~	5	Ŏ,	0	0.75
1981	 }	٦.	Ö	0	4	Ω.	ن	ୃତ	o,	ς,	7	2	. ~-
	7	0.21	0	0.02	0.65	0.73	0.04	0.13	0.10	0.39	0.67	1.10	1.01
	m	۲.	0	٥.		4	•	ψ.	H	.5	0		Н

(10 days, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 170%) Table 7(14) UNIT IRRIGATION DIVERSION REQUIREMENT

- (L,) / #	L/S/IIA) MAR	6	٠) ()	•	ص	0.83	4 (ω.	0.77	• 4	φ	α	0.61	Č	ήα	0.61	•	, c	0.00) (O C	•	. п	, ()	0.61	σ	jα	0.08
(FTS: 1 - 1 - 1 /FL)	FEB	ц	, σ	0,00	. (4/.0	о О	•)	0.0 40.0	9 (7	ο.	0.80	U	7 0	r	Ċ		0.00		. O. C.	0	α	•	0.76	C	, o	0.90
(17	JAN	.0	'n	0.76	Ú	ם י	0 C) (9	08.0) (ο	0.80	9	C	0 0	ဖ	U	• 0	0 0	Ų	080	ω	Ċ	, α	. 68.0	Œ	. u	0.89
	DEC	(r)	n	0.48			2.4		- (20.0		?	0.39	4	ď	68.0	4	Ċ	י ני	0.48	ď	60°0	4		, ~	0.48	ξ·Υ	. ~	0.48
	NOV	m	; —	0.25	C	٠.	0.25	r	j	07.0	, (•	0.21	٠	67	0.21	2	. ~	•	0.25	4	0.21	2		2.	0.23	0	,	0.18
	OCT	~	0.63	n,	_	2 6		'n	,	2. C	O	,		0.14	0.14		0.62	4	-	0.36	σ	0.92	7	7.	0.38		v.	-	0.39
	SEP	2	0.40	4.	0.5	1	0.85	0 97	•	0.6]			. 0. . 0. . 0.	ci.	1	1.06	0	1.03		0.86	0		0	rJ.	0.74	ı.		0	0.31
	AUG	ن	0.80	4.	ത	9	0.72		•				٠	0	0	1.42	ο.			1.31	ω,	1.52	2.	0.	0.50	ø.	3	0.73	4
	JUL	4	0.62	ο.	•		96.0	7	7	0.67			0,0	•	4	0.68	C.		0.62	V	3	0.78	9	ζ.	0.79	4	3	0.65	7.
	NOC		0.02	0	•	0.03	0.10			0.08	•		0 0			0.02	•	0	0.02	~	0.01	0.02			0.02		0	0.02	0.08
	MAY		0.03	0	•	0.02	0	0.03	0	0	0	C	0 0	>	0	0.02	0	90.0	0	0		0.02	0	0.04		0	0	0	0
	APR	0.43	Ŋ.	⊣ :	3	0.23	} •	2	0	0.08	ω.	5) (C	•		0.27	۲.	4.	0.10	П	ς,	0.10	۲-	4.	0.03		4	0.17	0.
	10-DAY ORDER	┌ (7) ('n	П	0	mί	Ч	7	м	-	2	m)	⊣	7	ν)	. ⊢	7	m	H	2	m	ᆏ	CV I	m	ᆏ	7	m
	YEAR	 1968			1969			1970			1976				1977	•		1978			1979			1980			1981		

Table 7(15) UNIT IRRIGATION DIVERSION REQUIREMENT

(10 days, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 160%)

											(Unit		lit/s/ha)
YEAR	10-DAY ORDER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	平三田	MAR
1968	H 04 m	0.33	0.03	0.02 0.06	0.17 0.62 0.97	0.0 0.80 1.44	1.21 0.40 0.49	0.29 0.63 0.51	0.31 0.19 0.25	0.30 0.38 0.44	0.14 0.30 0.63	0.44	0.76
1969	-1 07 W	0.20	0.03	0.01	0.20	0.91	0.50	0.18	0.04	0.37	0.59	0.59	0.76
1970	пσк	0.16	0.03	0.01	0.20	0.30	0.97	0.34	0.34	0.16	0.59	0.85	0.71
1976	-1 N M	0.26	000	0.01	0.24	0.00	0.20 0.04 1.26	0.98	0.21 0.21 0.25	0.37 0.38 0.44	0.56	0.85 0.78 0.66	0.65
1977		0.12	0000	0.01	0.12 0.68 0.29	1.07	0.79	0.14	0.34	0.37 0.38 0.44	0.22 0.67 0.50	0.53	0.76
1978	ним	0.33	0.06	0.01 0.02 0.12	0.17	0.69 1.02 1.31	1.03	0.42	0.35 0.25 0.25	0.37 0.38 0.44	0.59	0.85 0.20 0.74	0.76
1979	୷ ପ [ୂ] ମ	0.29	0.03	0.01	0.23	1.30	1.03	0.95	0.40	0.32	0.59	0.85	0.76 0.38 0.28
1980	ним	0.33	0.04	0.01	0.26	1.04	0.50	0.38	0.22	0.37	0.59	0.71 0.76 0.62	0.39
1981	H 0 W	0.33	000	0.01	0.27	0.26 0.73 1.44	0.90 0.04 0.31	0.69	0.08	0.37	0.55	0.85 0.78 0.74	0.76

Table 7(16) UNIT IRRIGATION DIVERSION REQUIREMENT

(10 days, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 150%)

									:		(Unj	(Unit: lit/s/ha)	s/ha)
YEAR	10-DAY ORDER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
1968	гH	ς.	0	0		್ರಾ	- 7	ζ.	٠.٣		0	. m	0.57
! !	7	0.17	0.03	•	0.62	0.80	0.39	0.63	0.19	0.38	0.22	0.61	0
	m	4		0	0	4	4	ιΩ	7	4	7	ល	0.32
1969	r-4	اسم •	0		•	ο.	0.50	r~l	0	c.	4.	0.45	ະເດ
	2	0.13	0.02	0.02	0.41	0.65	0	0.78	0.21	0.38	0.22	0	0.46
	რ -	г-!		•	•	. 7	0.84	0	7	4.	ω.	0.58	0
1970	႕	•	0.03	•	3	٣.	0.97	ω.	w.	۲.	. 4	Ġ	ι.
		0.04	0	0.02	0.76	1.05	0	0.49	0.19	0.01	0.55	0.61	0.43
.÷	m	0	0	•	ø.	٥.	0.61	υ.	۲.		ς.	4.	3
1976	ч	٦.	0	0	2	0		0.98	ζ,	c	4,		4.
	2	0.14	0	0.02	0.74	0.90	0.04	0,	0.21	0.38	0.55	0.61	0.46
	Ю	0	0	<u>.</u>	0.	0		0.14	7	4	4.	•	۳.
1977	٦	0	0	٥.	Н.	0.	7.	0.14	ι ις	U,	·i	ω.	ιŪ
	7	0.16	0.02	0.02	0.67	1.42	1.06	0	0.21	0.38	0.55	0.49	0.46
	m	7	0	<u>ښ</u>	3	σ.	0	0.62	3	. △1,	ტ:	0	ന
1978	Н	୍ୟ	0.06	•		7.	1.03	0.40	ω,		4	Ø,	ល
	7	0.05	0	0.02	0.65	1.02	0	0.78	0.20	0.38	0.55	0.13	0.46
	m	.0	0	•	ø.	ω.	0.86	ω.	7	4	Ŋ	٠.	7
1979	Н	0.20		•	7	ω	0	o,	4.	'n	4.	φ.	ທຸ
	2	0.05	0.03	0.02	0.82	1.52	0.18	0.92	0.21	0.38	0.55	0.61	0.26
	m	0	0		Ġ	7	0	ᅼ.	4	4.	ĹΩ.	ιù	7
1980	гH	<u></u>	0	0.		٥.	Ω,	7		۲٦	4	Ľή	.7
	N	0.01	0.03	0.02	0.84	0.49	0.74	0.39	•	0.38	0.55	09.0	0.45
	ო	Ч.		۲,	ᅼ	9	.5	0.	4	4.	Ŋ	ιή.	<u>ښ</u>
1981	H	S	0	0.	2.	2	0	ø	0	'n	•		0.57
	7	0.09	0	0.02	0.65	0.73	0.04	0.13	0.10	0.38	0.36	0.61	4.
	m	0.	0	0	۲.	4.	ო.	r)	۲.	ず	ທຸ	ι.	0
													-

(10 days, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 130%) Table 7(17) UNIT IRRIGATION DIVERSION REQUIREMENT

lit/s/ha)	MAR	20	•	0.21	٥		0.0		د) H (ر.	, (1	0.21	Ç	· "	0.21	~) (r	0.19	~		0.12	-	. 4	0.21	ω,	08.0	0.02
	FEB		l (*)	0.32	o C	1	0.36	1	μ . •	0.25	4	. (1	0.32	0	1 .en	0.04	4	. C	0.36	4	'n	0.36	ω,		0:30	4	96	m
(Unit:	JAN	0	ı	0.31	(r	, -	0.24	C.) (r	0.37	'n	m	0.26	C		0.23	'n	, c	0.37	. m	m	0.37	n	0.35	ω	3	0.22	C
	DEC	N	2	0.28	C		0.28	_	· C	0.16		7	0.28	~	0.26	G	N		0.28	2	17	0.28	7	0.26	2	C)	0.26	C
-	NOV	(L.)	r!	0.16	, C	, –	0.16		,	90.0	2	4	0.16	'n	0.17	ᅼ	m	0.16		4	-	0.16	2	0.17	Н	0	0.07	Ċ.
	OCT	~		0.51		· (~				0.57	0.98	0	0.14	0.14		0.62		0.79		<u>ი</u>	0.92	1	0.77	0.38	0	Ø	0.14	φ.
	di 国 S	. 2	0.40	4.	0,50		0.85	0.97		0.61	.2	0.04		7	1.06	0	1.03	0	0.86	0	0.18	0	ŗ.	0.74	.5	Q)	0.04	φ) •
	AUG	0	0.80	4	σ,	φ.	0.72	"	1.05	0	0.	0.90	0	0	1.42	ω,	φ.	1.02	ო,	ന	1.52	5	0	0.50	ŵ	ς.	0.73	4.
	JUL	0.17	0.62	<u>.</u>	Ω.	0.42	ο.	3	0.76	Ø,	ς.	0.75	0		0.68			0.62	o.	ζ,	0.78	ø.	2	0.79	믁.	4	0.65	7
	JUN	0.01	0	਼	0	0.03	ا ا	0.01		0.08	0	0.03	~ −Į	0	0.02	Н	0.01	0.02		0.01		0.08	0	0.02	ᅼ.	0	0.02	0
	MAY		0.03	0	0	0.02	0	0.03	0	0	0	0	0	0	0.02	0	90.0	0	0			0	0.04		0	,0	0	0
	APR	0.16		0	0.09	0.10	0.	0	0.03	0	0.12	4	0.	0.05	•	60.0	0.16	0.03	0		0.03	0	, -	0.01	0	,ļ	0.07	0
244	ORDER	H	Ο,	m"	Н	2	ന	гH	۲.	m	ᆏ	7	m	러	7	ώ	М	7	თ -	r-i	7	m	П	~	m	Ч	7	m
	YEAR	1,968			1969			1970			1976			1977			1978			1979			1980			1981		

(10 days, Ban Khai Extension and Thap Ma Schemes, Cropping Intensity; 140%) Table 7(18) UNIT IRRIGATION DIVERSION REQUIREMENT

	עמתייון										un)	(Unit: lit	lit/s/ha)
YEAR	ORDER	APR	MAY	NOD	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
2	·	•	i										
Η Α Ο	⊣ •	۲.			ᅼ	ن	4	2	ω	2	C	~	\ \ \ \
٠	Ο :	0.15	0.03	0.02	0.62	0.80	0.40	9		'n	-	יו נ	H
	m .	⊢!	0	•	O.	4.	4	0.51	0.21	0.34	0.40	0.42	0.27
1969	ᆏ	ij			\mathcal{C}	o,	0.50	-	9	M	. 5		
	7	0.11	0.02	0.03	0.42	0.65		I. 🗠	,		ř –		
	m	Ч.	0		o.	7.	0.85		0.21	0.34	0.32	0.47	90.0
1970	ᆏ	0	0.03	0	C)	,	0.97		(r			, La	
	~	0.04	0	0.02	0.76	1.05	•	0.49) , ,	; ⊂		்ட	• 4, v
ě	ო	0	0	0	9	0.	0.61	0.57	0.08	0.20	0.48	0.0	0.20
1976	H	0.15	0	•	2	0		0.08	2	ς.,		ĸ	7
	Ŋ		0	0.03		Q)			! -	, (r) C	יוי	ነ የ
	m _.	0	0	0.12	1.04	0	1.26	0.14	0.21	0.34	0.34	0.50	0.00
1977	, r-1	. •	0	,	ᅼ	0	0.79	0.14	ω,	ſΥ	-	, ,	
	7	0.14	0.02	0.02	0.68	1.42		l	0.19	0.32	0.45	0.32	φα
	w	નં.	0	•	C	Q.	0	0.62	4	ന	ļ m	O	. 4
1978	r i	Η.	0.06	0	Н	φ.	1.03	0.42	ζ.	(Υ	7		
	7	0.04	0	0.02	0.62	1.02			, –	, (. 4	, -	ያ «
	m	o,	0	۲.	9	m	0.86	m	0.21	0.34	0.48	0.47	0.24
1979	r~i	0.17	0.03	•	2	ن ،	0	0	7	0	4	ហ	7
	7	0.04		0.02	0.78	1.52	0.18	0.92	0.19			י ו	4 C
	m	0.08	0	•	v)	. 2			3	ι,		0.47	0.15
1980		0.19	0.04	0.01	~	0	Ŋ	7.		m	4	4	. 0
	2 -		•	0.02	0.79	0.50	0.74	0.38	0.18	0.32		. 4	. "
	m	∹.	0	4	4	φ.	Ü	0		15.	4	0.39	0.27
1981	~ 4	Н	0	•	2	3	٠ ص	8	0	'n	'n	i.	4
	Ο (0.08	0	0.02	0.65	0.73	0.04	0.14	60.0	0.32	0.29	05.0	(4)
	ຠ	o.	0	•	_	4.	(r)	(Y)		ς,	4	4.	•

Table 7(19) UNIT IRRIGATION DIVERSION REQUIREMENT (10 days, Ban Khai Existing Irrigation Scheme, Cropping Intensity; 150%)

Name												(טי	(Unit: lit/	/s/ha)
1	YEAR	10-DAY ORDER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	17.	İ
10	U	F			(r	((, ,	'	۱ ۱	·		
9 1 0.03 0.06 0.96 1.56 0.54 0.13 0.25 0.34 0.44 0.54 0.09 0.25 0.25 0.25 0.34 0.44 0.64 0.64 0.64 0.64 0.64 0.64 0.65 0.65 0.65 0.65 0.65 0.31 0.64 0.65 0.66 0.66 0.69 0.70<	0	-1 C		o c	C	નું હ	ο α	χ) <	in a	Υ.	ά,	0,0	4	4.
1 0.10 0 0.01 0.22 0.98 0.54 0.19 0.05 0.31 0.20 0.0 0.3 0.41 0.05 0.07 0.08 0.70 0.08 0.22 0.31 0.20 0.0 0.03 0.04 0.05 0.05 0.03 0.05 0.				0	0	0	ງເກົ	i. rv	ьī	7.7	, m	14	. ₫.	ζ.
2 0.07 0.03 0.49 0.70 0.84 0.25 0.31 0.20 0.9 3 0.03 0.011 1.04 0.78 0.91 0 0.25 0.34 0.36 0.51 0.0 1 0.08 0 0.01 0.22 0.35 0.37 0.14 0.60 0.9 2 0.02 0 0.03 0.02 1.17 0.67 0.62 0.02 0.02 0.60 0.94 0.15 2 0.03 0 0.03 0.72 1.17 0.67 0.62 0.10 0.54 0.54 0.15 2 0.03 0 0.01 0.26 1.08 0.21 1.06 0.22 0.31 0.48 0.54 0.14 0.60 0.54 0.15 2 0.09 0 0.01 0.13 1.13 0 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	696	-4		O,	0.	S	<u>ი</u>	5.		0	ω,	4	4	4
3 0.03 0.011 1.04 0.78 0.91 0 0.25 0.34 0.35 0.36 0.37 0.14 0.43 0.51 0.00 1 0.08 0 0.01 0.22 0.32 1.05 0.35 0.20 0.04 0.43 0.60 0.04 2 0.03 0.02 0.03 0.72 1.17 0.67 0.20 0.09 0.59 0.01 0.02 0.00 <		7	\circ	0	0	4.	7	0	ω	\mathcal{C}	(L)	S	•	' ~
0 1 0.08 0 0.01 0.22 0.32 1.05 0.36 0.37 0.14 0.43 0.60 2 0.03 0.03 0.82 1.14 0.67 0.53 0.20 0.04 0.54 0.54 0.54 0.94 3 0.02 0.03 0.02 1.17 0.67 0.02 0.10 0.53 0.20 0.48 0.54 0.36 0.10 2 0.08 0 0.01 0.01 0.02 0.94 0.05 0.31 0.48 0.54 0.36 0.54 0.53 0.48 0.54 <td></td> <td>ო</td> <td>0</td> <td>0</td> <td>ᅼ.</td> <td>٥.</td> <td>1</td> <td>0</td> <td>0</td> <td>7</td> <td>ω.</td> <td>, Μ</td> <td>Ŋ</td> <td>0</td>		ო	0	0	ᅼ.	٥.	1	0	0	7	ω.	, Μ	Ŋ	0
2 0.03 0.82 1.14 0 0.53 0.20 0.54 0.55 3 0.02 0.03 0.72 1.17 0.67 0.62 0.10 0.53 0.54 0.13 6 1 0.19 0.01 0.26 1.08 0.21 1.06 0.20 0.30 0.41 0.56 2 0.08 0 0.01 0.02 1.08 0.21 1.06 0.22 0.30 0.41 0.56 1 0.08 0 0.01 0.13 1.13 0.15 0.22 0.31 0.48 0.54 0.39 2 0.08 0 0.01 0.13 1.15 0.15 0.22 0.31 0.48 0.52 0.48 0.43 0.43 0.48 0.52 0.49 0.43 0.49 0.52 0.49 0.52 0.49 0.52 0.49 0.52 0.34 0.52 0.43 0.52 0.54 0.52 0.54 0.5	-	: l	0.	0		ζ,	ω,	0	'n	m		4	v.	V)
3 0.02 0.09 0.72 1.17 0.67 0.62 0.10 0.23 0.36 0.18 6 1 0.19 0.01 0.26 1.08 0.21 1.06 0.22 0.30 0.41 0.60 2 0.08 0 0.01 0.26 1.08 0.21 1.06 0.22 0.31 0.48 0.54 0.39 0.48 0.54 0.39 0.48 0.54 0.39 0.45 0.54 0.39 0.45 0.54 0.39 0.45 0.54 0.39 0.45 0.54 0.59 0.45 0.54 0.39 0.45 0.54 0.39 0.45 0.39 0.48 0.39 0.43 0.39 0.43 0.48 0.54 0.39 0.43 0.54 0.05 0.43 0.54 0.21 0.48 0.54 0.52 0.43 0.52 0.43 0.54 0.52 0.43 0.52 0.34 0.53 0.54 0.52 0.54 <t< td=""><td></td><td>N</td><td>0</td><td>0</td><td>•</td><td>α</td><td>7-1</td><td></td><td>ľÜ</td><td>7</td><td>0</td><td>4.</td><td>ι.</td><td><u>ښ</u></td></t<>		N	0	0	•	α	7-1		ľÜ	7	0	4.	ι.	<u>ښ</u>
6 1 0.19 0.01 0.26 1.08 0.21 1.06 0.22 0.30 0.41 0.60 0.34 0.54<		m	0	0	•	.7	Τ.	9	φ	H	3	τ.	٠,	rd
2 0.08 0.03 0.80 0.97 0.04 0 0.25 0.31 0.48 0.54 0.5 3 0.01 0.13 1.13 0 1.36 0.15 0.25 0.34 0.39 0.45 0.2 4 0.06 0 0.13 1.16 0.85 0.16 0.37 0.30 0.14 0.36 0.45 0.25 5 0.08 0 0.01 0.13 1.16 0.85 0.16 0.37 0.30 0.14 0.36 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.04 0.0 0.0 0.0 0.00	9/	-	ᅼ	0	0	ς,	0	1	0,	4	ų	4,	φ.	4
3 0.01 0.13 1.13 0 1.36 0.15 0.25 0.34 0.39 0.45 0.2 1 0.06 0 0.01 0.13 1.16 0.85 0.16 0.37 0.30 0.14 0.36 0.43 0.48 0.43 0.31 0.48 0.43 0.31 0.48 0.43 0.34 0.35 0.07 0.34 0.35 0.07 0.35 0.07 0.34 0.35 0.07 0.36 0.07 0.34 0.35 0.07 0.07 0.07 0.08 1.11 0.43 0.39 0.34 0.35 0.07 0.07 0.08 1.12 0.43 0.39 0.34 0.35 0.07 0.00 0.00 0.01 0.02 0.08 1.14 0.18 0.39 0.25 0.34 0.52 0.51 0.01 2 0.03 0 0.01 0.02 0.82 1.64 0.18 0.39 0.25 0.31 0.49 0.		2	਼	0	0.	α	ο.		;; O	.2	ω,	4,	ı.	ന
7 1 0.06 0.01 0.13 1.16 0.85 0.16 0.37 0.30 0.14 0.36 0.3 2 0.08 0.02 0.73 1.15 0 0.22 0.31 0.48 0.43 0.03 8 1 0.03 0.013 0.11 1.04 0 0.25 0.34 0.35 0.07 0.07 8 1 0.15 0 0.01 0.18 0.76 1.11 0.43 0.36 0.43 0.07 0.07 2 0.04 0 0.01 0.18 0.76 1.11 0.43 0.39 0.31 0.49 0.12 0.07 2 0.04 0 0.13 0.68 1.42 0.18 0.39 0.25 0.43 0.60 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.51 0.52 0.51 0.52 0.51 0.52 0.51		m	٥.	0	4	Η.	0		r	2	w	(1)	4.	Ŋ
2 0.08 0 0.02 0.73 1.15 0 0.22 0.31 0.48 0.43 0.93 3 0.03 0 0.13 0.31 1.04 0 0.67 0.25 0.34 0.35 0.07 0.2 8 1 0.15 0 0.01 0.18 0.76 1.11 0.43 0.36 0.36 0.07 0.07 2 0.04 0 0.02 0.65 1.10 0 0.84 0.21 0.31 0.49 0.12 0.31 0.49 0.12 0.07 9 1 0.13 0 0.01 0.25 1.41 1.11 1.02 0.34 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.52 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	77	Н	•	0	0		Η.	ω	-	'n	ω,	۲.		4
3 0.03 0.13 0.31 1.04 0 0.67 0.25 0.34 0.35 0.07 0.20 8 1 0.15 0 0.11 0.76 1.11 0.43 0.36 0.43 0.60 0.43 2 0.04 0 0.02 0.65 1.10 0 0.84 0.31 0.49 0.12 0.60 3 0.03 0 0.13 0.68 1.42 0.93 0.25 0.34 0.52 0.51 0.73 9 1 0.13 0 0.01 0.25 1.41 1.11 1.02 0.34 0.52 0.51 0.51 2 0.04 0 0.01 0.25 1.64 0.18 0.99 0.26 0.31 0.50 0.51 3 0.03 0 0.09 0.65 1.36 0.89 0.42 0.25 0.31 0.49 0.53 2 0.01 0.02 0.84 <td></td> <td>7</td> <td>\circ</td> <td>0</td> <td>0</td> <td>1</td> <td>ιÚ</td> <td>H</td> <td></td> <td>4</td> <td>()</td> <td>4.</td> <td></td> <td>u,</td>		7	\circ	0	0	1	ιÚ	H		4	()	4.		u,
8 1 0.15 0 0.01 0.18 0.76 1.11 0.43 0.38 0.30 0.43 0.60 0.43 0.00 2 0.04 0 0.02 0.65 1.10 0 0.84 0.21 0.31 0.49 0.12 0.32 3 0.03 0 0.13 0.68 1.42 0.93 0.39 0.25 0.34 0.52 0.51 0.25 2 0.04 0 0.02 0.82 1.41 1.11 1.02 0.43 0.26 0.43 0.60 0.44 0.23 0.03 0.03 0.03 0.03 0.03 0.03 0.03		m	0	0		۳	0,	0	9	S	ω.	ω.		.2
2 0.04 0.02 0.65 1.10 0 0.84 0.21 0.31 0.49 0.12 0.33 3 0.03 0.03 0.25 0.25 0.34 0.52 0.51 0.2 1 0.03 0.01 0.25 1.41 1.11 1.02 0.26 0.43 0.60 0.51 0.51 2 0.04 0.02 0.82 1.64 0.18 0.29 0.22 0.31 0.49 0.54 0.2 3 0.03 0.09 0.65 1.36 0.14 0.25 0.31 0.49 0.54 0.2 1 0.15 0.01 0.29 1.14 0.54 0.83 0.23 0.34 0.49 0.53 2 0.01 0.02 0.84 0.53 0.80 0.42 0.22 0.34 0.53 0.49 0.53 3 0.03 0 0.12 0.13 0.05 0.40 0.53 0.49		₽	<u>ب</u>	0	0	ᅼ	7.	<u></u> 1	4	ω,	ω.	샥	v.	4
3 0.03 0.13 0.68 1.42 0.93 0.39 0.25 0.34 0.52 0.51 0.03 1 0.13 0 0.01 0.25 1.41 1.11 1.02 0.43 0.26 0.44 0.05 2 0.04 0 0.02 0.82 1.64 0.18 0.99 0.22 0.31 0.49 0.54 0.25 3 0.03 0 0.09 0.65 1.14 0.54 0.83 0.25 0.31 0.49 0.51 0.1 1 0.15 0 0.01 0.29 1.14 0.54 0.83 0.23 0.30 0.49 0.53 0.3 2 0.01 0 0.02 0.84 0.53 0.61 0.49 0.53 0.49 0.53 0.34 0.52 0.49 0.53 0.34 0.52 0.49 0.53 0.49 0.53 0.49 0.53 0.49 0.53 0.54 0.53<		73	0	0	<u></u>	o.	ᅻ.		ω	0	ω.	4,	}	സ
1 0.13 0 0.01 0.25 1.41 1.11 1.02 0.26 0.26 0.43 0.60 0.43 2 0.04 0 0.02 0.82 1.64 0.18 0.99 0.22 0.31 0.49 0.54 0.54 3 0.03 0 0.09 0.65 1.36 0 0.14 0.54 0.83 0.25 0.34 0.51 0.51 2 0.01 0 0.02 0.84 0.53 0.80 0.42 0.22 0.31 0.49 0.53 0.33 3 0.03 0.12 0.13 0.67 0.61 0.10 0.22 0.34 0.52 0.48 0.53 1 0.15 0 0.01 0.29 0.28 0.97 0.75 0.08 0.30 0.40 0.60 0.40 0.54 0.31 0.54 0.54 0.51 2 0.06 0 0.03 0.70 0.79		m	0	0	۲.	φ.	Ą.	σ	m.	0	m	IJ	ហ	2
2 0.04 0 0.02 0.82 1.64 0.18 0.99 0.22 0.31 0.49 0.54 0.2 3 0.03 0 0.09 0.65 1.36 0 0.14 0.25 0.34 0.52 0.51 0.1 1 0.15 0 0.01 0.29 1.14 0.54 0.83 0.23 0.30 0.43 0.49 0.53 0.3 2 0.01 0 0.02 0.84 0.53 0.80 0.42 0.22 0.31 0.49 0.53 0.3 3 0.03 0 0.12 0.13 0.67 0.61 0.10 0.22 0.34 0.52 0.48 0.2 1 0.15 0 0.01 0.29 0.28 0.97 0.75 0.08 0.30 0.40 0.60 0.4 2 0.06 0 0.03 0.70 0.79 0.40 0.15 0.10 0.31 0.32 0.54 0.3 3 0.02 0.08 0.84 1.56 0.33 0.42 0.18 0.34 0.53 0.51 0.0		М	۲.	0	0	. 2	4	Н	0	4	6	4		4
3 0.03 0.09 0.65 1.36 0 0.14 0.25 0.34 0.52 0.51 0.1 1 0.15 0 0.01 0.29 1.14 0.54 0.83 0.23 0.30 0.43 0.49 0.53 2 0.01 0 0.02 0.84 0.53 0.80 0.42 0.22 0.31 0.49 0.53 0.3 3 0.03 0 0.12 0.13 0.67 0.61 0.10 0.22 0.34 0.52 0.48 0.2 1 0.15 0 0.01 0.29 0.28 0.97 0.75 0.08 0.30 0.40 0.60 0.4 2 0.06 0 0.03 0.70 0.79 0.40 0.15 0.10 0.31 0.32 0.54 0.3 3 0.02 0.08 0.84 1.56 0.33 0.42 0.18 0.34 0.53 0.51 0.0		7	•	0	0	00	S	-	0	ζ.	c.)	4.	٠.	3
1 0.15 0 0.01 0.29 1.14 0.54 0.83 0.23 0.30 0.43 0.49 0.53 2 0.01 0.02 0.84 0.53 0.80 0.42 0.22 0.31 0.49 0.53 0.33 3 0.03 0.12 0.13 0.67 0.61 0.10 0.34 0.52 0.48 0.52 1 0.15 0 0.01 0.29 0.28 0.97 0.75 0.08 0.30 0.40 0.60 0.64 2 0.06 0 0.03 0.70 0.79 0.40 0.15 0.10 0.31 0.32 0.54 0.3 3 0.02 0 0.08 0.84 1.56 0.33 0.42 0.18 0.34 0.51 0.05	:	m	o,	0	0	φ,	ω,		ᅼ	S	w.	ស	٠	-
2 0.01 0 0.02 0.84 0.53 0.80 0.42 0.22 0.31 0.49 0.53 0.3 3 0.03 0 0.12 0.13 0.67 0.61 0.10 0.22 0.34 0.52 0.48 0.2 1 0.15 0 0.01 0.29 0.28 0.97 0.75 0.08 0.30 0.40 0.60 0.4 2 0.06 0 0.03 0.70 0.79 0.40 0.15 0.10 0.31 0.32 0.54 0.3 3 0.02 0 0.08 0.84 1.56 0.33 0.42 0.18 0.34 0.53 0.51 0.0		1	H	0	0	2	Н.	Ŋ	ω.	S	ω,	4	4.	4
3 0.03 0 0.12 0.13 0.67 0.61 0.10 0.22 0.34 0.52 0.48 0.2 1 0.15 0 0.01 0.29 0.28 0.97 0.75 0.08 0.30 0.40 0.60 0.4 0.3 0.06 0 0.03 0.70 0.79 0.40 0.15 0.10 0.31 0.32 0.54 0.3 3 0.02 0 0.08 0.84 1.56 0.33 0.42 0.18 0.34 0.53 0.51 0.0		N	0	0	0	œ	ഹ	ά	4	Ġ	ω,	4	ഹ	ന
1 0.15 0 0.01 0.29 0.28 0.97 0.75 0.08 0.30 0.40 0.60 0.4 2 0.06 0 0.03 0.70 0.79 0.40 0.15 0.10 0.31 0.32 0.54 0.3 3 0.02 0 0.08 0.84 1.56 0.33 0.42 0.18 0.34 0.53 0.51 0.0		m	٥.,	o	r{ •	H.	0	S	ᅼ	ζ.	m.	n)	4	3
0.06 0 0.03 0.70 0.79 0.40 0.15 0.10 0.31 0.32 0.54 0.3 0.02 0.08 0.84 1.56 0.33 0.42 0.18 0.34 0.53 0.51 0.0	31	Н	Ħ	0	0	~	2	9	. 7	0.	ω,	4	့လ	4.
0.02 0 0.08 0.84 1.56 0.33 0.42 0.18 0.34 0.53 0.51 0.0		7	o.	0	0	۲.	. 7	4	Η	Ч	m	w	Ω,	n
		ന	0	0	0	φ	ī,	3	4.	۳.	ω,	ą,	ເດ	0

Table 7(20) UNIT IRRIGATION DIVERSION REQUIREMENT (10 days, Ban Khai Existing Irrigation Scheme, Cropping Intensity; 140%)

lit/s/ha)	MAR		30		0.19			90.0	, (າເ	0.15	. ~	, ,	0.10	Ċ	0.30	ı ri	ď	٠, ٧	0.17	'n		0.11	_	2	0.19	CC.	. ~	0.03
(Unit: lit,	표		0	4	0.36	ر د د	•	0.40	_	<u>, </u>	0.28	4	4	0,36	C	0.34	0	0.47		0.40	4	. ,	0.40	(**)	4	0.33	4	4	0.40
(Un	JAN		0	۲.	0.35	~	, J	0.28	~	, "	0.42		(1)	0.30		0.38	2	0.34	· m	0.42	c	38.0	•	٣,	0.38	4	۳.	7	0.42
	DEC		~	0.25	0.27			0.27	r	; C	0.16	2	N	0.27	: 5	0.25	2	2	2	0.27	. 6	0.25	. ~	7	0.25		3	0.25	2
	NOV		ς,	0.18	0.21	0	2	0.21	60	. –	0.08		7	0.21	ന	0.20	2		۲.	0.21	4	0.20	2	S	0.19		0	60.0	٠į.
	OCT		က	0.68	Ŋ		0.84		0,36	י ו	0.62	1.06	•	0.15	0.16		0.67		∞	0.39	0		Г	ω	0.42	4		0.15	4
	SEP		ı,	0.43	S.	0.54		0.91	1.05	_	0.66		0	1.36	ω	1.15	0	1,11	0	0.93		0.19		ιŲ	0.80	φ.	0	0.04	സ
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(10 days, Ban Khai Existing Irrigation Scheme, Cropping Intensity; 130%) Table 7(21) UNIT IRRIGATION DIVERSION REQUIREMENT

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Table 8 SALIENT FEATURES OF PROJECT FACILITIES FOR KHLONG LUANG IRRIGATION SCHEME

1.	Source of irrigation water	;	Khlong Luang res	servoir
2.	Net irrigation area	. :		00 ha
	- North area			
	- South area	:		00 ha 00 ha
3.	Maximum diversion water requiremen	t:	10.2	$4 \text{ m}^3/\text{s}$
4.	Intake structures		North	South
	Design intake capacity Design high intake water level Design low intake water level No. of regulating gate	<i>:</i> :	4.81 m ³ /s W1. 39.00 m W1. 33.80 m 1 no.	5.94 m ³ /s ^{/1} W1. 39.00 m W1. 33.80 m
	Size of outlet conduit Length of outlet conduit	:	ø2.00 m 54.00 m	ø2.00 m 300.00 m
5.	Irrigation facilities		North	South
	- Main canals			
	Type of canal Side slope of canal Width of inspection road Length	: :	trapezoidal conc l : 6.0 m (effective 31.1 km	1.5
	- Lateral and sub-lateral canals			21.0 Mil
	Type of canal Side slope of canal Width of inspection road Length	: :	trapezoidal unli l : 4.0 m (effective	1.5
	- Related structures			LD MIL
	Culvert Inverted siphon Check structure Drop structure Turnout Farm turnout Spillway Over chute Crossdrain	: : : : : : : : : : : : : : : : : : : :	6 nos. 2 nos. 19 nos. 20 nos. 7 nos. 83 nos. 14 nos. 7 nos.	29 nos. 2 nos. 31 nos. 34 nos. 11 nos. 92 nos. 22 nos. 9 nos. 11 nos.
6.	Drainage facilities			
	- New drain, length	:	27	km
	- Improved drain, length	:	10	km
	- Related structures		•	*
<u></u>	Drainage culvert Drainage drop	:		nos.

 $[\]underline{/1}$: including the design discharge of 0.51 m $^3/s$ for the domestic and industrial use.

Table 9(1) SALIENT FEATURES OF PROJECT FACILITIES FOR BAN KHAI EXTENSION IRRIGATION SCHEME

Source of irrigation water Nong Pla Lai reservoir and Khlong Yai reservoir Net irrigation area 7,700 ha 3. Maximum diversion water requirement : $11.09 \text{ m}^3/\text{s}$ 4. Intake facilities (1) Nong Pla Lai headworks - Fixed weir Crest elevation : El. 25.56 m Length of fixed weir portion: - Dike Crest elevation : El. 28.00 m Length of dike portion 1,090.00 m - Movable weir Length of weir portion 5.00 mSize of gate (BxHxno.) $3.00 \times 4.00 \text{ m} \times 1 \text{ no}.$ - Intake Design intake water level : W1. 25.46 m Design intake capacity $4.90 \text{ m}^3/\text{s}$ Size of gate (BxHxno.) $2.50 \times 2.00 \text{ m} \times 2 \text{ nos.}$ (2) Khlong Yai headworks - Fixed weir Crest elevation : E1. 25.10 m Length of fixed weir portion: 95.00 m - Dike Crest elevation El. 27.50 m Length of dike portion 881.00 m - Movable weir Length of weir portion : 8.00 m : $3.00 \times 4.40 \text{ m} \times 2 \text{ nos.}$ Size of gate (BxHxno.) - Intake Design intake water level : W1. 25.00 m Design intake capacity $11.09 \text{ m}^3/\text{s}$ Size of gate (BxHxno.) $4.00 \times 3.00 \text{ m} \times 2 \text{ nos.}$ Diversion channel Type of canal trapezoidal concrete lined Side slope of canal 1:1.5 Length 1.8 km

Table 9(2) SALIENT FEATURES OF PROJECT FACILITIES FOR BAN KHAI EXTENSION IRRIGATION SCHEME

5.	Irrigation facilities	
	- Main canal	
	Type of canal Side slope of canal Width of inspection road Length	<pre>: trapezoidal concrete lined : 1 : 1.5 : 6.0 m (effective width: 5.0 m) : 45.2 km</pre>
	- Lateral and sub-lateral canals	
	Type of canal Side slope of canal Width of inspection road Length	<pre>: trapezoidal unlined : 1:1.5 : 4.0 m (effective width: 3.0 m) : 123 km</pre>
	- Related structures	
	Culvert Inverted syphon Check structure Drop structure Turnout Farm turnout Spillway Over chute Crossdrain Bridge	: 28 nos. : - : 61 nos. : 59 nos. : 35 nos. : 231 nos. : 43 nos : 24 nos. : 16 nos. : 6 nos.
6.	Drainage facilities	
	- New drain, length	: 81 km
	- Improved drain, length	: 43 km
	- Related structures	
	Drainage culvert Drainage drop	: 14 nos. : 45 nos.

Table 10 SALIENT FEATURES OF PROJECT FACILITIES FOR BAN KHAI EXISTING IRRIGATION SCHEME

1.	Source of irrigation water	:	Nong Pla Lai re	eservoir
2.	Net irrigation area	:	4,80	00 ha
3.	Maximum diversion water requirem	ment :	7.4	$9 \text{ m}^3/\text{s}$
4.	Intake facility (Ban Khai headwo	orks)	Left	Right
	- Intake			
	Design intake water level Design intake capacity Size of gate (B x H x no.)	* * .	W1. 8.87 m $3.78 \text{ m}^3/\text{s}$ $1.50 \times 2.00 \text{m} \times 2$ 2 nos.	W1. 8.77 m $3.71 \text{ m}^3/\text{s}$ $1.50 \times 2.00 \text{m} \times 2 \text{ nos}$.
5.	Irrigation facilities		Left	Right
	- Main canals			
	Type of canal Side slope of canal Width of inspection road Length	: : :		crete lined: 1.5 e width: 5.0 m)
	- Lateral and sub-lateral canals			
	Type of canal Side slope of canal Width of inspection road Length	:	trapezoidal unli l : 4.0 m (effective 18 km	: 1.5
	- Related structures			30 Idii
	Culvert Inverted syphon Check structure Drop structure Turnout Farm turnout Spillway Over chute Crossdrain Bridge		2 nos. 8 nos. 6 nos. 6 nos. 62 nos. 10 nos. 10 nos. 9 nos.	10 nos. 13 nos. 2 nos. 6 nos. 71 nos. 10 nos. 4 nos. 7 nos. 6 nos.
6.	Drainage facilities			
•	- New drain, length	:		20 km
	- Improved drain, legnth	;		32 km
	- Related structures			
	Drainage culvert	:		2 nos.

Table 11 SALIENT FEATURES OF PROJECT FACILITIES FOR KHLONG THAP MA IRRIGATION SCHEME

1.	Source of irrigation water	Khlong Thap Ma reservoir
2.	Net irrigation area	2,400 ha
	- East area	
	- West area	1,250 ha 1,150 ha
_		•
3.	Maximum diversion water requirement:	$3.46 \text{ m}^3/\text{s}$
4.	Intake structures	East West
	Design intake capacity	$1.80 \text{ m}^3/\text{s}$ $1.66 \text{ m}^3/\text{s}$
	Design high intake water level :	· · · · · · · · · · · · · · · · · · ·
	Design low intake water level :	W1. 16.20 m W1. 16.20 m
	No. of regulating gate :	1 no. 1 no.
	Size of outlet conduit :	Ø1.30 m Ø1.30 m
	Length of outlet conduit :	100.0 m 87.0 m
5.	Irrigation facilities	East West
	- Main canals	
	Type of canal	trapezoidal concrete lined
	Side slope of canal	1 : 1.5
	Width of inspection road :	6.0 m (effective width: 5.0 m)
	Length	5.3 km 11.3 km
	- Lateral and sub-lateral canals	
	Type of canal	trapezoidal unlined
	Side slope of canal :	1 : 1.5
	Width of inspection road :	4.0 m (effective width: 3.0 m)
	Length :	17 km 21 km
	- Related structures	
	Culvert	1 no. 9 nos.
	Inverted syphon :	- 103:
	Check structure :	9 nos. 8 nos.
	Drop structure :	12 nos. 19 nos.
	Turnout :	5 nos. 7 nos.
	Farm turnout	35 nos. 32 nos.
	Spillway	7 nos. 12 nos.
	Over chute	3 nos. 9 nos.
	Crossdrain	
	• • • • • • • • • • • • • • • • • • •	1 no. 9 nos.
ő.	Drainage facilities	
	- New drain, length :	31 km
	- Improved drain, length :	8 km
	- Related structures	
	Drainage culvert :	10 nos.

Table 12 SUMMARY OF CONSTRUCTION COST FOR KHLONG LUANG IRRIGATION SCHEME (CONTRACT BASIS)

	Item	Total (10 ³ k)	Foreign Currency (10 ³ g)	Local Currency (10 ³ %)
1.	Direct Construction Cost	V+~ 47	(10 B)	(40 01)
	1.1 Preparatory Works	52,800	8,000	44,800
	1.2 Intake Structure			
	North intake structureSouth intake structure	8,160 19,740	3,440 5,260	4,720 14,480
	1.3 Canal Construction		d.	
	- Main canal - Lateral canal - Drainage canal	180,200 45,900 13,600	51,200 15,200 4,400	129,000 30,700 9.200
	1.4 Contractor's Administration	Cost	2.000	O TO
	1.5 Contractor's Profit	11,210 20,830	3,060 5,690	8,150 $15,140$
	1.6 Tax	10,890	·	10,890
	1.7 Land Acquisition	9,150	-	9,150
	Sub-total	372,480	96,250	276,230
2.	Engineering Services	47,230	33,060	14,170
3.	O&M_Equipment	23,540	21,800	1,740
4.	Administration Cost of Executive Agency	18,160	-	18,160
	Sub-total	461,410	151,110	310,300
5.	Physical Contingency	69,220	22,680	46,540
	Sub-total	530,630	173,790	356,840
6.	Price Contingency	376,580	103,820	272,760
	Grand Total	907,210	277,610	629,600

Table 13 SUMMARY OF CONSTRUCTION COST FOR BAN KHAI EXTENSION IRRIGATION SCHEME (CONTRACT BASIS)

	Item	Total (10 ³ ½)	Foreign Currency (10 ³ %)	Local Currency (10 ³ %)
1.	Direct Construction Cost			
÷	1.1 Preparatory Works	66,000	11,800	54,200
	1.2 Diversion Structure	96,100	33,600	62,500
	1.3 Canal Construction		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	02,000
	Main canalLateral canalDrainage canal	220,100 60,200 14,200	62,400 18,000 4,400	157,700 42,200 9,800
	1.4 Contractor's Administration Cost	on 15,980	4,560	11,420
	1.5 Contractor's Profit	29,680	8,460	21,220
	1.6 Tax	15,520		15,520
	1.7 Land Acquisition	44,400	. · · · · · · · · · · · · · · · · · · ·	44,400
	Sub-total	562,180	143,220	418,960
2.	Engineering Services	67,310	47,120	20,190
3.	O&M Equipment	26,060	24,130	1,930
١.	Administration Cost of Executive Agency	re 25,890	-	25,890
	Sub-total	681,440	214,470	466,970
· .	Physical Contingency	102,220	32,170	70,050
	Sub-total	783,660	246,640	537,020
, ,	Price Contingency	507,920	133,710	374,210
	Grand Total	1,291,580	380,350	911,230

Table 14 SUMMARY OF CONSTRUCTION COST FOR BAN KHAI EXISTING IRRIGATION SCHEME (CONTRACT BASIS)

	Item	Total (10 ³ %)	Foreign Currency (10 ³ %)	Local Currency (10 ³ B)
1.	Direct Construction Cost			÷.
	1.1 Preparatory Works	23,400	3,100	20,300
	1.2 Canal Construction			
	- Main canal - Lateral canal - Drainage canal	79,800 37,500 6,600	16,600 12,100 2,600	63,200 25,400 4,000
	1.3 Contractor's Administration Cost	ion 5,150	1,200	3,950
	1.4 Contractor's Profit	9,580	2,240	7,340
	1.5 Tax	5,010	_	5,010
	1.6 Land Acquisition	4,930	· 	4,930
	Sub-total	171,970	37,840	134,130
2.	Engineering Services	21,720	15,200	6,520
3.	O&M Equipment	19,690	18,230	1,460
4.	Administration Cost of Executi	ive 8,350	-	8,350
	Sub-total	221,730	71,270	150,460
5.	Physical Contingency	33,260	10,690	22,570
	Sub-total	254,990	81,960	173,030
5.	Price Contingency	135,520	36,700	98,820
-	Grand Total	390,510	118,660	271,850

Table 15 SUMMARY OF CONSTRUCTION COST FOR KHLONG THAP MA IRRIGATION SCHEME (CONTRACT BASIS)

				**	
		Item	Total (10 ³ ½)	Foreign Currency (10 ³ %)	Local Currency (10 ³ g)
1.	Dire	ect Construction Cost			
	1.1	Preparatory Works	22,000	3,100	18,900
	1.2	Intake Structure	16,900	6,300	10,600
	1.3	Canal Construction			•
		- Main canal - Lateral canal - Drainage canal	54,400 23,100 5,000	15,700 7,100 1,600	38,700 16,000 3,400
	1.4	Contractor's Administration Cost	4,250	1,180	3,070
	1.5	Contractor's Profit	7,890	2,200	5,690
	1.6	Tax	4,130	_	4,130
	1.7	Land Acquisition	11,090	_	11,090
		Sub-total	148,760	37,180	111,580
2.	Engi	neering Services	17,900	12,530	5,370
3.	M&O	Equipment	9,640	8,930	710
4.	Admi Agen	nistration Cost of Executive cy	5,020		5,020
		Sub-total	181,320	58,640	122,680
5.	Phys	ical Contingency	27,200	8,800	18,400
		Sub-total	208,520	67,440	141,080
6.	Price	e Contingency	106,860	29,560	77,300
		Grand Total	315,380	97,000	218,380

Table 16 DISBURSEMENT SCHEDULE OF CONSTRUCTION COST FOR KHLONG LUANG IRRIGATION SCHEME (CONTRACT BASIS)

															33,
Item	ma		Total	1 .	1986	Ι.		1988		1989		1990		1991	<u>ا</u>
		Total F	Foreign	Local F	Foreign Local	Foreign	Local F	Foreign	Local	Foreign	Local F	Foreign	Local F	d.	Local
1. Direct Cor	Direct Construction Cost												*:	İ	
- Preparat	- Preparatory Works	52,800	8,000 44,	44,800	ı	I	18,200	6,400	22,840	1,600	3,760	ı		1	1
- Intake S	Intake Structure	27,900	8,700	19,200	I F	1	: 4	060'9	13,440	2,610	5,760	ı.	ţ	ı	
- Canal Co	Canal Construction	239,700	70,800 168,	006,89	1	ı	ı	14,160	33,780	24,780	59,120 24,780	24,780	59,110	7,080 16,890	6,890
- Contract	- Contractor's Administration Cost	11,210	3,060	8,150	i	. 1	940	930	2,450	1,010	2,400	870	2,070	250	590
- Contract	Contractor's Profit	20,830	5,690 15,	15,140	ı	. 1	1,190	1,730	4,550	1,890	7,460	1,610	3,840	460	1,100
- Tax		10,890		10,890	i		620		3,290		3,320	l	2,850	t	810
- Land Acquisition	quisition	9,150		9,150	l I	1	2,750		3,650	I	2,750	ŀ	. 1	ı	i
Sub-total	total	372,480	96,250 276,	76,230	ı	t	23,400	29,310	84,000	31,890	81,570	27,260	67,870	7,790 19,390	9,390
2. Engineerin	Engineering Services	47,230	33,060	14,170	5,950 2,550	3,970	1,700	6,610	2,830	6,610	2,830	4,960	2,130	4,960	2,130
3. O&M Equipment	uent	23,540 21,800	21,800	1,740	1	•	•	4,360	350	8,720	069	4,360	350	7,360	350
4. Administration C Executive Agency	Administration Cost of Executive Agency	18,160	1	18,160	- 1,820	· I	1,820	i	3,630	1	3,630		3,630	1	3,630
Sub-total	cotal	461,410 151,110 310,300	51,110.3	10,300	5,950 4,370	3,970	26,920	40,280	90,810	47,220	88,720	36,580	73,980	17,110 2	25,500
5. Physical C	Physical Contingency	69,220	22,680 46,	46,540	890 650	009	4,040	6,040	13,620	7,090	13,310	5,490	11,100	2,570	3,820
Sub-total	otal	530,630 173,790 356,840	73,790 3	56,840	6,840 5,020	4,570	30,960	46,320 1	104,430	54,310 1	102,030	42,070	85,080	19,680 29	29,320
6. Price Cintingency	ingency	376,580 103,820 272,760	03,820 2	72,760	1,780 1,660	1,650	14,370	21,740	63,760	31,870	78,720	30,030	80,720	16,750 33	33,530
Grand	Grand Total	907,210 277,610 629,	77,610 6	29,600	8,620 6,680	6,220 45,330	1	68,060 168,190	(68,190	86,180 180,750	l j	72,100 165,800	1 :	36,430 62,850	2,850

Table 17 DISBURSEMENT SCHEDULE OF CONSTRUCTION COST FOR BAN KHAI EXTENSION IRRIGATION SCHEME (CONTRACT BASIS)

I	- Andrew Control of the Control of t		-				:							-				cri
	 		Total		198	5	1986	9	1987	87		1988	19	1989	1 990	Ue	(Unit:	10 3)
1	ırem	Total	For- eign	Local	For- eign	Local	For-	Local	For-	Local	For-	Local	For	Local	For	Local	For-	Local
4	. Direct Construction Cost	t t		.:			,				1913		0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ug a		eıgn	
	- Preparatory Works	000,99	11,800	54,200		Ì	ı	18,900	9,440	29,860	2,360	5,440		l	I	1	. 1	
	- Diversion Structure	96,100	33,600	33,600 62,500	•	it	. 1	1	8,400	15,630	16,800	31,240	8,400	15,630	ı		ı	1
	- Canal Construction	294,500 84,800 209,700	84,800	209,700		4	i To a	ŀ	1	ŧ	16,960	41,940	29,680		29,680	73,390	8,480	20.970
٠	- Contractor's Administration Cost	15,980	4.560	4.560 11 420		I	- 1	9	. 6	. (i	,					•		
							1	200	070	085°T	1,260	2,750	1,340	3,120	1,040	2,570	300	730
	- Contractor's Profit	29,680		8,460 21,220			1 '	1,230	1,160	2,960	2,340	5,110	2,480	5,790	1,930	4,770	550	1,360
	- Tax	14,610	1 .	15,520	1	1	,	079	1	2,150	1	3,900	ı	4,320	1	3,510	. 1	1,000
	- Land Acquisition	44,400		74,400	٠,	1	. П	13,320	1	13,320	1 -	8,880	ı	8,880	1	1	ł	ı
	Sub-total	562,180 143,220 418,960	143,220	418,960	1 .		n I	34,750 I	19,620	65,510	39,720	99,260	41,900	111,140	32,650	84,240	9,330	24,060
2	Engineering Services	67,310	47,120	47,120 20,190	8,480	3,630	5,650	2,420	7,070	3,030	9,420	4,040	7,070	3,030	5,650	2,420	3,780	1,620
က်	O&M Equipment	26,060 24,130	24,130	1,930	ŀ	ı	ı	1	4,830	390	7,230	570	4,830	390	4,830	390	2,410	190
4.	Administration Cost of Executive Agency	25,890	ı	25,890		2,590	1	2,590		5,180	1	5,180	. 1	5,180	. 1	2,590	1	2 580
	Sub-toral	681,440 214,470 466,970	214,470		8,480	6,220	5,650 3	39,760 3	31,520	74,110	56,370	109,050	53,800		43,130		15,520	28.450
	Physical Contingency	102,220	32,170	32,170 70,050	1,270	930	850	2,960	4,730	11,120	8,460	16,360	8,070	17,960	6,470		2,320	4,270
	Sub-total	783,660 2	246,640	783,660 246,640 537,020 9,750		7,150	6,500 4	45,720 36	36,250	85,230 (64,830	125,410	61,870]	137,700 4	49,600 1	103,090 1	17,840	32,720
	Price Contingency	507,920 133,710 374,210	:33,710		1,620	1,500	1,690 1	15,130 1	13,070	39,560	30,430	76,560	36,310 106,240		35,410	97,800 15,180	5,180	37,420
]																-		
	Grand Total	1,291,580 380,350 911,230 11,370	380,350	911,230 1		8,650	8,190 60,850		49,320 124,790		95,260	201,970	98,180 243,940		85,010 200,890	068,00	33,020	70,140

Table 18 DISBURSEMENT SCHEDULE OF CONSTRUCTION COST FOR BAN KHAI EXISTING IRRIGATION SCHEME (CONTRACT BASIS)

The properties of the state of	1											(Unit: 103g)
Item	Total	Total Foreign	Local	1985 Foreign	Local	1986 Foreign	Local	Foreign	Local	1988 Foreign	Local	lov l
1. Direct Construction Cost	·											}
- Preparatory Works	23,400	3,100	20,300	1.	ı	1	7,700	2,480	10,740	620	1,860	
- Canal Construction	123,500	31,300	92,600		1	i .	1	9,390	27,780	12,520	37,040	9,390 27,780
- Contractor's Administration Cost	5,150	1,200	3,950		ŀ	1	270	420	1,350	450	1,370	330 970
- Contractor's Profit.	9,580	2,240	7,340	ţ	ı	1	200	770	2,500	860	2,520	610 1,810
- Tax	5,010	I	5,010	.1	į	ı	260	1	1,720	t	1,770	- 1,260
- Land Acquisition	4,930	1	4,930	ı	. I	1,	066	ŀ	1,970		1,480	067 -
Sub-total	171,970	37,840	134,130	1	ı		9,720	13,060	46,060	14,450	46,040	10,330 32,310
2. Engineering Services	21,720	15,200	6,520	3,040	1,300	2,280	980	3,040	1,300	3,800	1,630	3,040 1,310
3. O&M Equipment	19,690	18,230	1,460			1	ŧ	5,470	077	7,290	580	5,470 440
4. Administration Cost of Executive Agency	8,350	. 1	8,350	I	840	. 1	1,670	1	2,500		1,670	- 1,670
Sub-total	221,730	71,270	150,460	3,040	2,140	2,280	12,370	21,570	50,300	25,540	49,920	18,840 35,730
5. Physical Contingency	33,260	10,690	22,570	460	320	340.	340 1,860	3,230	7,540	3,830	7,490	2,830 5,360
Sub-total	254,990	81,960	173,030	3,500	2,460	2,620 14,230	14,230	24,800	57,840	29,370	57,410	21,670 41,090
6. Price Contingency	135,520	36,700	98,820	280	520	680	680 4,710	8,940	26,840	13,780	35,050	12,720 31,700
Grand Total	390,510	118,660	271,850	4,080	2,980	3,300 18,940	18,940	33,740	34,680	43,150	92,460	34,390 72,790
THE THE PERSON AS THE PERSON A		,			***************************************						:	

Table 19 DISBURSEMENT SCHEDULE OF CONSTRUCTION COST FOR KHLONG THAP MA IRRIGATION SCHEME (CONTRACT BASIS)

The state of the s								ĵ.		3.3
Item	Total	Total Forejon Local	No.	S	0			1988	1 [100
			ים בסדבולוו	Ru Pocal	roreign Local	Foreign	Local	Foreign	Local	Foreign Local
1. Direct Construction Cost										
- Preparatory Works	22,000	3,100 18,900	. 00	: 1 :: 1	- 8,400	2,480	9,120	620	1,380	1
- Intake Structure	16,900	6,300 10,600	00	l	. 1	4,410	7,420	1,890	3,180	
- Canal Construction	82,500	24,400 58,100	00	:	. 1	7,320	17,430	9,760	23,240	7,320 17,430
- Contractor's Administration Cost	4,250	1,180 3,070	70.	I I	_ 290	067	1,190	430	980	260 610
- Contractor's Profit	7,890	2,200 5,690	06	1	- 540	920	2,210	800	1,810	
- Tax	4,130	- 4,130	30	. 1	- 280	. F 1	1,640		1,370	
- Land Acquisition	11,090	- 11,090	96	1	- 2,220		4,430	ì	3,330	011,1
Sub-total	148,760	37,180 111,580	80		- 11,730	15,620	43,440	13,500	35,290	8,060 21,120
2. Engineering Services	17,900	12,530 5,370	70 2,510	1,070	1,880 810	2,510	1,070	3,120	1,350	2.510 1.070
3. O&M Equipment	9,640	8,930 7	710	1	ı	2,680	210	3,570	290	
4. Administration Cost of Executive Agency	5,020	5,020	50	200	1,000	i	1,520	1	1,000	F
Sub-total	181,320	58,640 122,680	69	510 1,570	1,880 13,540	20,810	46,240	20,190	37,930	2277
5. Physical Contingency	27,200	8,800 18,400		380 240	280 2,030	3,120	6,940	3,030	5,690	
Sub-rotal	208,520	67,440 141,080	30 2,890	90 1,810	2,160 15,570	23,930	53,180		43,620	15.240 26.900
6. Price Contingency	106,860	29,560 77,300		490 380	560 5,140	8,610	24,460		26,610	8,990 20,710
Grand Total	315,380	97,000 218,380	3,380	30 2,190	2,720 20,710	32,540 77,640	77,640	34,130	70,230	24,230 47,610

Table 20 UNIT PRICE FOR IRRIGATION SCHEME (CONTRACT BASIS)

												(Unit:	t: 33)
Tilowie Thomas	7. T. T. T.	T.Y.	ong Lua	bu	Ban Kha	-71	Extension	Ban Khai	i Existing	рц	Khlong	Ę	
אסדא דיספ	7 777	Total	ral F.C.	r.c.	Total	P.C.	r.c.	Total	υ U	L.C.	Total	F.C.	ប
		,	٠										
I. Earth Work										-			
1. Stripping	E E	39.06	15.65	23.41	57,66	20.00	37.66		20.00	37.66	57.66	20.00	37,66
2. Excavation for Main Canal	e E	49.36	19,85	29.51	54, 69	21,76	32.93	:-	18,93	28.42	78	21.80	32.98
. Excavation	ო #	39.93	16.21	23.72	37.55	15.15	22.40	37.55	15.15	22.40		16.03	23.79
and Drainage Canal	E E												
4. Excavation for Structure	e E	39.22	16.99	22.23	36.98	14.92	22.06	55.47	22.38	33.09	45,30	18.00	27.30
5. Excavation for Diversion Channel	e H	1	1	ı	50.05	20.27	29.78	ı	1	•	1	1	į
6. Embankment for Main Canal	m Ħ	51.84	22,17	29.67	52,05	21.37	30.68		21.37	30.68	59.60	24.55	35.05
7. Embankment for Lateral Canal	E H	42.38	18.54	23.84	42: 71	17.77	24.94		17.77	24.94	48.58	20,30	28.28
8. Embankment for Headworks	E E	1	1		55.58	22.90	32.68	1	1	1	1	: I	
9. Backfilling	e E	47.96	19.86	28.10	45.23	18.91	26.32	45.23	18.91	26.32	45.63	18.88	26,75
10. Laterite Pavement	۳ ظ	70.84	28.11		98,73	38.91	59.82	98.73	38.91	59.82	94.30	37.34	56.96
11. Sod facing	д Б	25.22	1.60	23.62	m	0.65	21.74	22.39	0.65	21.74	23.77	1.10	22.67
II. Concrete Work													
1. Reinforcement Concrete	E E	3,429.47		2,802.27	3,482.87	717.69	2,765.18		717.69 2,	2,765.18	3,241.71 5	557.88 2,	683.83
2. Plain Concrete	E E	2,959.67	627.20	2,332.47	2,911.01	602.19	2,308.82	2,911.01 6	602.19.2,	2, 308.82		557.88 2,	2,218.27
3. Concrete Lining	m E	2,453.90		1,981.14	911.01	602.19	2,308.82		02.19 2,	308.82	776.15	57.88 2,	218.27
III. Riprap	B3	1,447.50	481.51	965,99	1,447.50	481,51	965.99	1,447.50 4	481.51	965.99	1,447.50 48	81.51	965,99
								8					
IV. Steel Work	ton	30,000.0	1	30,000.0	30,000.0	ï	30,000.0	30,000.0	OE -	30,000.0	30,000.0	1	30,000.0
V. Concrete Pipe										٠			٠
D300.	E	566.38	134.89	431.49	566.38	134.89	431.49	566.38 1	134.89	431.49	566.38 1	134.89	431,49
D400	E	692.96	153.78	539.18	692.96	153.78	539-18			539.18	ò	153.78	539.18
D500	Ħ	818.65	171.67	646.98	818.65	171.67	646.98	818.65 1		646,98		71.67	646.98
D600	E	947.88	191.56	756.32	ထ္က	191.56	756.32	947.88 1		756.32	ထ္ထ		756, 32
00/0	គ	1,075.37	210.45	864.92	1,075.37	210.45	864.92	1,075.37 2		864.92	37		864.92
D800 ∵	e e	1,199.86	34	970.	ဖွဲ့	229.34	970.52			970.52	199,86		970.52
D900	ផ	1,326.57	. 22	1,078.35	2	248.22	1,078.35		μ,	078.35	326,57	22 1,	078,35
D1,000	8	1,453.27	267.10	1,186.17	7	267.10	1,186.17		267.10 1,	1,186.17	453.27	267.10 1,1	186.17
							1		:				

Table 21 LIST FOR MAJOR MATERIAL COST AND LABOUR WAGE

		(Unit: 塔)
Item	Unit	Price
Material		
Concrete 50 kg/bag	baq	98.00
Sand	m3	100.00
Crushed Aggregate	m ³	190.00
Ready-mixed Concrete 300 kg/m3	ton	1,155.00
Ready-mixed Concrete 250 kg/m3	ton	1,070.00
Steel Round Bars SR-24 Ø19 mm	ton	7,550.00
Steel Deformed Bars SR-30 Ø19 mm	ton	8,000.00
Steel Plate 4'x8'	ton	
Timber 4"x4"	m3	7,700.00 6,000.00
Plywood 4'x8'	pc.	
Diesaline	lit.	135.00
Gasoline, Regular	lit.	7.39
Gasoline, Super	lit.	11.40
Engine Oil	drum	13.45
Grease	drum	4,889.00
Sod	m ²	5,000.00 6.00
Labour		
<u>Labour</u>		• •
General Foreman	month	8,000.00
Foreman	month	7,000.00
Operator	day	160.00
Lorry Driver	day	120.00
Car Driver	month	3,000.00
Mechanic	day	160.00
Welder	month	6,200.00
Carpenter	day	120.00
Steel Bender	day	
Semi-skilled Labour	day	80.00
Labour	day	75.00 65.00
Clerk	month	
Typist	month	4,500.00
Watchman	month	3,500.00
4	morreit .	2,300.00

Table 22 BREAKDOWN OF DIRECT CONSTRUCTION COST OF OFFICE AND QUARTERS

		Khlong	Khlong Luang	Ban Khai	Extension	Ban Khai	Existing	Khlong	Khlong Thap Ma
	Item	0'ty (m2)	Amount (103g)	Q'ty (m ²)	Amount (103g)		Amount (103%)	Q'ty (m2)	Amount (103E)
rI	Main Office	1,000	5,000	1,000	5,000		I	500	2,500
Α,	Branch Office	200	2,000	200	2,000		1	I	Ì
m	Repair Shop	600	1,500	600	1,500	200	1,250	200	1,250
4.	Store House	3,000	6,000	3,000	6,000	2,000	4,000	1,000	2,000
ហំ	Quarters	2,000	5,000	2,000	5,000	1,000	2,500	1,000	2,500
٠ .	Motor Pool	8,000	2,800	10,000	3,500	5,000	1,750	2,000	1,750
7.	Miscellaneous	J S	3,700	Η 	4,000	rJ W	1,500	L.S.	2,000
	Total		26,000		27,000		11,000		12,000

The above construction costs of office and quarters are included in the preparatory works of the direct construction cost for each scheme. Note:

Table 23 COST ESTIMATE OF LAND ACQUISITION

	Khlon	g Luang	Ban Khai Extension		\$ 5.	1.17	
Item	Q'ty (ha)	Q'ty Amount (ha) (103g)	Q'ty Amount (ha) (10 ³ B)	Q'ty (ha)	Amount (103%)	O'ty (ha)	O'ty Amount
1. Intake Facility	1					(pir)	(d-07)
2. Canal & Road					:		
- Main canal	105	5,250	102 11,424	1	I	30	3,360
- Lateral canal	41	2,050	123 13,776	24 2,	2,690	88 8	4,258
- Drainage canal	37	1,850	124 13,889	20 2,	2,240	31	3,472
Total		9,150	44,400	4,	4,930		11,090

Table 24 PROCUREMENT COST OF MAJOR EQUIPMENT FOR OPERATION AND MAINTENANCE

									(Unit:	103 Yen)
	F	Unit	Khlong Luang	Luang	Ban Khai Extension	Extension	Ban Khai F	Existing	Khlong 7	Thap Ma
	auamdinba	Price	Required No.	Amount	Required No.	Amount		Amount	[Amount
н	VEHICLE AND EQUIPMENT					,				
	1. Backhoe, 0.3 m ³	12,360	7	24,720	2	24.720	~	24.720	•	6
		13,080	H	13,080	101	26,160	·	13,080	1 1	74.300
		9,324	7	9,324	ı ન	9,324	ł m	100 100 100 100 100 100 100 100 100 100		. 70 E
	4. Motor grader, 9.5 ton	12,240	н	12,240	Н	12,240	H	12,240	t 1	* I
	Water tanker, 5 m ³	5,880	73	11,760	7	11,760	H	5,880	н	5,880
	3-10 ton	8,880	Н	8,830	н	8,880	H	8,880	l r-4	8,880
		293	ო	879	m	879		586	2	586
	Soil compactor, 90 kg	264	м	792	m	792	~	528	23	528
,		524	7	1,048	7	1,048	2	1,048	н	524
-1 i		636	7	1,272	7	1,272	H	636	rd	636
I		612	2	1,224	73	1,224	,CV	1,224	cl	612
rd i		16,680	۲.	16,680	Ä	16,680	н	16,680	ŀ	}
- f		9,192	н	9,192	뻐	9,192	ı		I	t
-1		1,884	2	3,768	2	3,768	2	3,768	6	3,768
- T		4,872	 4	4,872	rH	4,872	rł	4,872	וי	
rd 1	-	2,904	ri	2,904	П	2,904	H	2,904	r-1	2,904
- 4 ₁	17. Ordinary truck, 6 ton	3,948	7	7,896	7	7,896	H	3,948	r-1	3.948
П.		1,716	7	3,432	N	3,432	7	3,432	1 2	3.432
rti	-	2,064	m	6,192	m	6,192	m	6,192	1 (2)	4,128
27	20. Sedan, 6 persons	1,800	٦	1,800	-1	1,800	1	1,800	z-	1,800
7	l. Repair shop tools		r S	7,098	L. S.	7,752	ν N	6.087	i oʻ	2,966
.71	2. Spare parts		7. S.	28,391	r.s.	31,007	. S.	24,348	r.s.	11,862
Ħ	TELECOMMUNICATION SYSTEM		l set	50,000	l set	58,000	1 set	38,000	1 set	19,000
	FO+21			227,444		251,794		190,177		93.138
			(21,	(21,800×10³g)	(24,	(24,130×10 ³ g)	(18,	(18, 230×10 ³ g)	(8,	(8,930×10 ³ g)

Note: US\$1 = \$23 = ¥240

Table 25 REPLACEMENT COST AND USEFUL LIFE

		Useful	Replacement
	Item	\mathtt{Life}	Cost
		(year)	(10 ³ g)
Kh1c	ong Luang Trrigation Schemo	· ·	
	Transfer de la contraction de l'entre de la contraction de la cont		
(1)	O&M Equipment	10	21,800
(2)	Project Facilities		
	- Intake facilities, gate	25	4,908
	- Irrigation facilities, gate	25	17,603
Ban	Khai Extension Irrigation Scheme		
(1)	O&M Equipment	10	24,130
(2)	Project Facilities		
	- Intake facilities, gate	25	9,108
	- Irrigation facilities, gate	25	16,706
Ban	Khai Existing Irrigation Schem		
(1)	O&M Equipment	10	18,230
(2)	Project Facilities		,
	- Intake facilities, gate	25	880
	- Irrigation facilities, gate	25	8,307
Khlor	ng Thap Ma Irrigation Scheme		
(1)	O&M Equipment	10	8,930
(2)	Project Facilities		•
	- Intake facilities, gate	25	3,068
	- Irrigation facilities, gate	25	5,369
	(1) (2) Ban (1) (2) Ban (1) (2)	Khlong Luang Irrigation Scheme (1) O&M Equipment (2) Project Facilities	Khlong Luang Irrigation Scheme (1) O&M Equipment 10 (2) Project Facilities - Intake facilities, gate 25 - Irrigation facilities, gate 25 Ban Khai Extension Irrigation Scheme (1) O&M Equipment 10 (2) Project Facilities - Intake facilities, gate 25 - Irrigation facilities, gate 25 Ban Khai Existing Irrigation Schem (1) O&M Equipment 10 (2) Project Facilities - Intake facilities, gate 25 - Irrigation facilities, gate 25 - Irrigation facilities, gate 25 Khlong Thap Ma Irrigation Scheme (1) O&M Equipment 10 (2) Project Facilities - Intake facilities, gate 25 Khlong Thap Ma Irrigation Scheme (1) O&M Equipment 10 (2) Project Facilities - Intake facilities, gate 25

Table 2 SUMMARY OF CONSTRUCTION COST FOR KHLONG LUANG IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

	Item	Total (10 ³ %)	Foreign Currency (10 ³ ½)	Local Currency (103\$)
1.	Direct Construction Cost			· .
1.1	Preparatory Works	41,100	· <u></u> .	41,100
1.2	Intake Structure	20,400	4,600	15,800
1.3	Canal Construction			20,000
	- Main canal - Lateral canal - Drainage canal	102,900 21,300 5,700	- - -	102,900 21,300 5,700
1.4	Land Acquisition	9,150	_	9,150
1.5	Purchase Cost of Construction Equipment	152,280	141,000	11,280
	Sub-total	352,830	145,600	207,230
2.	Engineering Services	44,680	33,510	11,170
3.	O&M Equipment	23,540	21,800	1,740
1.	Administration Cost of Executive Agency	17,180	-	17,180
	Sub-total	438,230	200,910	237,320
ō.	Physical Contingency	65,730	30,130	35,600
	Sub-total	503,960	231,040	272,920
5.	Price Contingency	299,730	97,670	202,060
	Sub-total	803,690	328,710	474,980
? .	Salvage Value for Construction Equipment	-14,100		-14,100
			····	
	Grand Total	789,590	328,710	460,880

Table 27 SUMMARY OF CONSTRUCTION COST FOR
BAN KHAI EXTENSION IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

	Item	Total	Foreign Currency (10 ³ ¤)	Local Currency (10 ³ %)
1.	Direct Construction Cost			
1.1	Preparatory Works	47,700	-	47,700
1.2	Diversion Structure	53,800	9,100	44,700
1.3	Canal onstruction			
	Main canalLateral canalDrainage canal	115,100 31,200 6,900	: 	115,100 31,200 6,900
1.4	Land Acquisition	44,400		44,400
1.5	Purchase Cost of Construction Equipment	181,440	168,000	13,440
	Sub-total	480,540	177,100	303,440
2.	Engineering Services	56,700	42,520	14,180
3.	O&M Equipment	26,060	24,130	1,930
4.	Administration Cost of Executive Agency	21,800	.	21,800
	Sub-total	585,100	243,750	341,350
5.	Physical Contingency	87,770	36,560	51,210
	Sub-total	672,870	280,310	392,560
6.	Price Contingency	353,470	92,460	261,010
	Sub-total	1,026,340	372,770	653,570
7.	Salvage Value for Construction Equipment	-16,800		-16,800
	Grand Total	1,009,540	372,770	636,770

Table 28 SUMMARY OF CONSTRUCTION COST FOR BAN KHAI EXISTING IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

	Item	Total	Foreign Currency (10 ³ 5)	Local Currency (10 ³ %)
1.	Direct Construction Cost			
1.1	Preparatory Works	18,100	_ :	18,100
1.2	Canal Construction			
	- Main canal - Lateral canal - Drainage canal	51,300 17,500 2,100		51,300 17,500 2,100
1.3	Land Acquisition	4,930		4,930
1.4	Purchase Cost of Construction Equipment	77,620	77,000	620
	Sub-total	171,550	77,000	94,550
2.	Engineering Services	21,660	16,240	5,420
3.	O&M Equipment	19,690	18,230	1,460
4.	Administration Cost of Executive Agency	8,330	** ;	8,330
	Sub-total	221,230	111,470	109,760
5.	Physical Contingency	33,180	16,720	16,460
	Sub-total	254,410	128,190	126,220
6.	Price Contingency	110,860	39,950	70,910
	Sub-total	365,270	168,140	197,130
7.	Salvage Value for Construction Equipment	-7,700		-7,700
	Grand Total	357,570	168,140	189,430

Table 29 SUMMARY OF CONSTRUCTION COST FOR KHLONG THAP MA IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

	Item	Total (10 ³ g)	Foreign Currency (10 ³ B)	Local Currency (10 ³ ½)
1.	Direct Construction Cost			
1.1	Preparatory Works	17,400	. ~	17,400
1.2	Intake Structure	11,100	2,900	8,200
1.3	Canal Construction			٠,
	- Main canal - Lateral canal - Drainage canal	28,700 11,500 2,300		28,700 11,500 2,300
1.4	Land Acquisition	11,090	-	11,090
1.5	Purchase Cost of Construction Equipment	107,150	106,300	850
	Sub-total	189,240	109,200	80,040
2.	Engineering Services	23,160	17,370	5,790
3.	O&M Equipment	9,640	8,930	710
4.	Administration Cost of Executive Agency	8,910	-	8,910
	Sub-total	230,950	135,500	95,450
5.	Physical Contingency	34,640	20,320	14,320
	Sub-total	265,590	155,820	109,770
6.	Price Contingency	104,270	45,460	58,810
	Sub-total	369,860	201,280	168,580
7.	Salvage Value for Construction Equipment	-10,630	-	-10,630
	Grand Total	359,230	201,280	157,950

Table 30 DISBURSEMENT SCHEDULE OF CONSTRUCTION COST FOR KHLONG LUANG IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

Ttem		Tota		1986		1987		1988		1989		1990		1991	
	Total 1	Foreign	Local	Foreign	Local F	Foreign	Local i	Foreign	Local	Foreign	Local	Foreign	Local	1	Local
1. Direct Construction Cost													·		
- Preparatory Works	41,100	1	41.100	•	ľ	!	18 200	,	טממ סנ		000	:			
- Intake Structure	20,400	4.600	15,800	1	1	1	201	3 220	000,01	1 000	0,040	I	1	t	ı
- Canal Construction	129,900	ı	129,900	ı	•	I	1	0111	25,46	9		1	1 C	ı	1 -0
- Land Acquisition	9,150	ı	9,150	1	i	,	2.750	1	2000		0,4,0,4) t'() t	।	7 300
- Purchase Cost of	152,280 141,000 11,280	141,000	11,280	t	1	141,000	11,280	1		ŀ	1	1	i t	I I	
	6	i i	6												
	352,830	352,830 145,600 207,230	207,230	ı	1	141,000 32,230	32,230	3,220	60,570	1,380	55,980	1	45,470	7	12,980
2. Engineering Services	44,680	44,680 33,510 11,170	11,170	6,030	2,010	4,020 1,340	1,340	7,040	2,350	7,040	2,350	4,690	1,560	4,690 1,560	1,560
3. O&M Equipment	23,540	21,800 1,740	1,740	•	ı	1	1	4,360	350	8,720	069	4,360	350	4,360	350
4. Administration Cost of Executive Agency	17,180		- 17,180	I	1,710	I	1,710		3,440	1	3,440	1 .	3,440	ı	3,440
Sub-total	438,230 200,910 237,320	200,910	237,320	6,030	3,720 1	145,020	35,280	14,620	66,710	17,140	62,460	9,050	50,820	9,050 18,330	3,330
5. Physical Contingency	65,730	65,730 30,130 35,600	35,600	900	260	21,750	5,290	2,190	10,010	2,570	9,370	1,360	7,620	1,360 2,750	2,750
Sub-total	503,960 231,040 272,920	231,040	272,920	6,930	4,280 1	166,770	40,570	16,810	76,720	19,710	71,830	10,410	58,440	10,410 21,080	1,080
6. Price Contingency	299,730	97,670 202,060	202,060	1,800	1,420	60,120	18,830	7,890	46,840	11,570	55,420	7,430	55,440	8,860 24,110	1,110
Sub-total	803,690 328,710 474,980	328,710	474,980	8,730	5,700 2	226,890	59,400	24,700	123,560	31,280	127,250	17,840	17,840 113,880 19,270		45,190
7. Salvage Value for Construction Equipment	-14,100		14,100	ı	ı	1	ı	ı	1	1	I	T .	ŧ	1,	14,100
Gyand Potal	789 590	088 080 017 80t 088	150 ABO	087 8	2007	200 300 BOO	000	000	000 80	000	700 101 000				

Table 31 DISBURSEMENT SCHEDULE OF CONSTRUCTION COST FOR BAN KHAI EXTENSION IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

- ANNOTED TO THE PROPERTY OF T											(Unit:	c: 10 ³ g)
Item	Total			1986	1987	1988		1989		1990		
	Total Foreign	Local	Local Foreign Local	Foreign Local	Foreign Local	Foreign	Local F	Foreign	Local F	Foreign	Local	Foreign Loca
1. Direct Construction Cost	ist									a.		
- Preparatory Works	47,700	47,700	1	- 18,900	- 24.660	1	021.2		•	1		ı
- Diversion Structure	53,800 9,100	44,700	ı	1	2,280 11,180	4.540	22 340	280	081 11		1 1	! !
- Canal Construction	153,200 -	153,200	1	1	1	1	30,640		52,44		53 620	ָּ בְּרְ בְּרְ
- Land Acquisition	44,400	44,400	į	- 13,320	- 13.320	1	8.880	ŧ	200	. 1	2 1	1
- Purchase Cost of	181,440 168,000	13,440	1	168,000 13,440	1	ı		1	}	ı	. 1	: 1
Construction Equipment												
Sub-total	480,540 177,100 303,440	303,440	ı	168,000 45,660	2,280 49,160	4,540	000'99	2,280	73,680	1	53,620	- 15,320
2. Engineering Services	56,700 42,520	14,180	7,650 2,550	5,100 1,700	5,960 1,990	8,930	2,980	7,440	2,480	4,460	1,490	2,980 990
3. O&M Equipment	26,060 24,130	1,930	1	1	4,830 390	7,230	570	4,830	390	4,830	390	2,410 190
4. Administration Cost of Executive Agency	21,800	21,800	- 2,180	- 2,180	- 4,360	1	4,360	ì	4,360	I	2,180	- 2,18
Sub-total	585,100 243,750	341,350	7,650 4,730	,730 173,100 49,540	13,070 55,900	20,700	73,910 14,550		80,910	9,290	57,680	5,390 18,68
5. Physical Contingency	87,770 36,560	51,210	1,150 710	25,970 7,430	1,960 8,390	3,110	11,090	2,180	12,140	1,390	8,650	800 2,800
Sub-total	672,870 280,310	392,560	8,800 5,440	076,53 070,661	15,030 64,290	23,810	85,000 16,730	.6,730	93,050	10,680	66,330	6,190 21,48
6. Price Contingency	353,470 92,460	261,010	1,460 1,140	51,700 18,860	5,420 29,840	11,170	51,890	9,820	71,790	7,620	62,930	5,270 24,56
Sub-total	1,026,340 372,770	653,570	10,260 6,580	250,770 75,830	20,450 94,130	34,980	136,890	26,550 1	164,840	18,300	129,260	11,460 46,04
7. Salvage Value for Construction Equipment	-16,800	-16,800	i	ı	ı	1		1	i	t.	l	16,80
Grand Total	1,009,540 372,770	636,770 10,260	l o	,580 250,770 75,830	20,450 94,130	34,980	34,980 136,890 26,550 164,840	6,550 1	54,840	18,300 129,260	129,260	11,460 29,24

Table 32 DISBURSEMENT SCHEDULE OF CONSTRUCTION COST FOR BAN KHAI EXISTING IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

	T + A M		Total		1985	-	1986		1987		3801		Unit:	1078)
	T COM	Total	Foreign	Local	Foreign	Local	Foreign	Local.	Foreign	Local	Foreign	Local	Foreign	Local
~1	Direct Construction Cost													
	- Preparatory Works	18.100	1	18,100	l	•	ŀ	7007		0		5		
	- Canal Construction	70,900	ı	70,900	t	t	I		· •	020,10	ı	000000000000000000000000000000000000000	ı	1 0
	- Land Acquisition	4 930	1	4.930	1	1	1	000	i	070	I	000	1	0/7/17
	- Purchase Cost of	77,000	77,000	620	ī	•	77.000	620	1 1	0/6/1	i	7.480	1	4.50
	Construction Equipment	•) } }				1	1	
	Sub-total	171,550	77,000	94,550	1	1	77,000	9,310	i	32,220	t .	31,260	1	21,760
6	Engineering Services	21,660	16,240	5,420	3,410	1,140	2,270	760	3,170	1,060	4,220	1,400	3,170	1,060
m	O&M Equipment	19,690	18,230	1,460	ı	ř	. 1	ı	5,470	440	7,290	580	5,470	440
4,	Administration Cost of Executive Agency	8,330	ı	8,330	ì	830	I	1,670		2,490	. 1	1,670		1,670
	Sub-total	221,230	111,470 109,760	109,760	3,410	1,970	79,270	11,740	8,640	36,210	11,510	34,910	8,640	24,930
'n	Physical Contingency	33,180		16,720 16,460	510	300	11,890	1,760	1,300	5,430	1,720	5,230	1,300	3,740
	Sub-total	254,410	128,190 126,220	126,220	3,920	2,270	91,160	13,500	9,940	41,640	13,230	40,140	9,940	28,670
6	Price Contingency	110,860	39,950	70,910	650	480	23,680	4,470	3,580	19,330	6,210	24,510	5,830	22,120
	Sub-total	365,270	168,140	197,130	4,570	2,750	114,840	17,970	13,520	60,970	19,440	64,650	15,770	50,790
7.	Salvage Value for Construction Equipment	-7,700	i	-7,700	į	ŧ	ı	I	t .	ı		. ŧ		-7,700
														:
	Grand Total	357,570	357,570 168,140 189,430	189,430	4,570	2,750	114,840	17,970	13,520	60,970	19,440	64,650	15,770	43,090
			The state of the s											

Table 33 DISBURSEMENT SCHEDULE OF CONSTRUCTION COST FOR KHLONG THAP MA IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

The state of the s												(Onit:	10383
# F		Total		1985		1986		1987	ł	1988	en en	1989	I.~
7700 1	Total	Foreign	[oca]	Foreign	Loca1	Foreign	Loca1	Foreign	Local	Foreign	Local	Foreign	Local
1. Direct Construction Cost					-			:					
- Preparatory Works	17,400	1	17,400	1	ı	1	8.400		7.920	t	1.080	1	
- Intake Structure	11,100	2,900	8,200	ı	1	1		2,030	5.740	870	2,460	ì	1
- Canal Construction	42,500	i	42,500	1	1	1	i	. 1	12,750) I	17.000	(12 750
- Land Acquisition	11,090	i	11,090	1	,	i	2,220	ı	4,430	1	3.330	. 1	0
- Purchase Cost of Construction Equipment	106,300	106,300	850	1 *	1	106,300	820	ş	1	1	1 .	1 .	
Sub-total	189,240	109,200	80,040	1	ı	106,300	11,470	2,030	30,840	870	23,870	1	13,860
2. Engineering Services	23,160	17,370	5,790	3,650	1,210	2,430	810	3,390	1,130	4,510	1,510	3,390	1,130
3. O&M Equipment	9,640	8,930	710	1		ı	į	2,680	210	3,570	290	2,680	210
4. Administration Cost of Executive Agency	8,910	í	8,910	ŧ	890	ı	1,780	1	2,680	ì	1,780	ı	1,780
Sub-total	230,950	135,500	95,450	3,650	2,100	108,730	14,060	8,100	34,860	8,950	27,450	6,070	16,980
5. Physical Contingency	34,640	20,320	14,320	550	310	16,300	2,110	1,220	5,230	1,340	4,120	910	2,550
Sub-total	265,590	155,820	109,770	4,200	2,410	125,030	16,170	9,320	40,090	10,290	31,570	086,9	19,530
6. Price Contingency	104,270	45,460	58,810	700	210	32,470	5,350	3,360	18,610	4,830	19,270	4,100	15,070
Sub-total	369,860	201,280	168,580	4,900	2,920	157,500	21,520	12,680	58,700	15,120	50,840	11,080	34,600
7. Salvage Value for Construction Equipment	-10,630	ı	-10,630	ı	1	1	ı	i .	1	ı	ı		-10,630
Grand Total	359,230	359,230 201,280 157,950	157,950	4,900	2,920	157,500	21,520	12,680	58,700	15,120	50,840	11,080	23,970

Table 34 UNIT PRICE FOR IRRIGATION SCHEME (FORCE ACCOUNT BASIS)

		Khlo	ng Luar	5	Ban Khai	- 1	Extension	Ban Khai	Existing		(Unit	(Unit:	m
Work Item	Unit	Total F.C.	F.C.	L.C.		1941	т.с.	Total			Total F	F.C.	L.C.
I. Barth Work													
	ć												
	n H	17.54	ı	17.54	23.55	ŀ	23.55	23.55	- 23,55		23.55	ı	23.55
2. Excavation for Main Canal	e M	14.79	ŧ	14.79	17,50	ł	17.50	17.50	- 17.50		17.60		17.60
3. Excavation for Lateral	e H	11.60	1	11.60	11.71	ı	11.71	11.71			12.54	. 1	12.54
and Drainage Canal													
4. Excavation for Structure	m3	12.02	ı	12.02	11.64	1	11.64	17.46	- 17.46		14.46	ı	14.46
5. Excavation for Diversion Channel	Ë	í	1	1	15.84	. 1	15.84		ŧ		1	ı	1
6. Embankment for Main Canal	ខ្ព	15.50	ŀ	15.50	15.51		15.51	15.51	- 15.51		18,63	1	18.63
7. Embankment for Lateral Canal	ក ផ	12.32	1	12.32	12.35	1	12.35	12.35	- 12.		14,91	1	14.91
8. Embankment for Headworks	۳ E	1	1.	1	16.63	1	16.63	i	ı	1	1	1	1
	ខ្ម	10.49		10.49	13.38	1	13.38	13.38	- 13.38		14.32	1	14.32
	e E	22.88	ì	22.88	32.79	1	32.79	32.79			30,83	1	30.83
11. Sod facing	# ₂	22.47	1	22.47	21.28		21.28	21.28	- 21.28		21.88	ı	21.88
								٠			٠.		
II. Concrete Work							-						
からない。 中ではのこれの日のこれの中で、では、 ではない。	'n	. כא פרכי	,	ים ייני כ	11 100 0		11.	יים ה יים ה			Ç		1
	i €	270 270	1 (05.612.2	// TOC 7		7, 307, 7	Z, 361. //	7/.TB5.2 -	77 2,320.78	0 (2,320,78
	m ا	0		07 OUU -	בר סכם ר	1 1	בי סכס נ	- T#*C7C 1				0 0	1 061 22
	į	## .000 T		** .000	CT 626 1		L, 569-115.	T' 252.TT			77		77.70
III. Riprap	E E	624.96	ı	624.96	624.96	ı.	624.96	624.96	- 624.96		624.96	φ I	624.96
IV. Steel Work	ton	30,000.0	i	30,000.0	30,000.0	ı	30,000.0	30,000.0	- 30,000.0	0 30,000.0	0-0	- 30,	30,000.0
V. Concrete Pipe								٠.					
	1			•	6			(((ć	1	6
	Ħ	25.55	J	333.32	333.32	ı	335.32	333.34			333.32	1	555.52
0400	ផ	٠.	ı	419.70	419.70	ł	419.70	419.70			419,70	1	419.70
D500.	E		1	508.08	508.08	1	508.08	508.08			80	ı	508.08
D600	u	-:	1	587.55	587.55	•	587.55	587,55			. 55	ın I	587.55
D700	គ	665.20	•	665.20	665.20	ı	665,20	665.20	- 665.20		665.20	9	665.20
D800	ឥ	742.85	•	742.85	742.85	ŀ	742.85	742.85			83	_ 7	742.85
0060	Ħ	833,09	1	833.09	833.09	1	833.09	833.09			833.09	ω I	833.09
000,10	e	923.33	1	923.33	923.33	L	923.33	923.33	- 923.33	33 923 33	.33	ı	923.33

Table 35 PURCHASE COST OF

MAJOR CONSTRUCTION EQUIPMENT FOR
KHLONG LUANG IRRIGATION SCHEME

		e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	
Description		Quantity	Price (10 ³ ළ)
Bulldozer	32 ton	2	8,281
u .	21 ton	4	11,655
. 11	16 ton	3	5,648
11	11 ton	2	2,507
Swamp dozer	16 ton	1	2,089
Back hoe	0.7 m^3	5	9,862
Power shovel	0.7 m^3	5	11,634
Wheel loader	1.8 m ³	2	2,961
Tracter shovel	1.8 m ³	1	1,831
Dump truck	8 ton	56	40,274
Forced mixer	0.5 m^3	1	2,750
Agitator truck	3.0 ton	2	1,586
Motor grader	3.1 ton	2	3,173
Vibration roller	5.5 ton	2	1,142
11	10 ton	2	3,067
Others			32,540
Total			141,000

Table 36 PURCHASE COST OF

MAJOR CONSTRUCTION EQUIPMENT FOR
BAN KHAI EXTENSION IRRIGATION SCHEME

Description		Quantity	Price (103g)
Bulldozer	32 ton	2	8,281
Bulldozer W/R	21 ton	3	9,741
Bulldozer	21 ton	4	11,655
n ·	16 ton	4	7,530
TI .	ll ton	2	2,507
Back hoe	0.7 m ³	5	9,862
Power shovel	0.7 m^3	5	11,634
Wheel loader	$1.8~\mathrm{m}^3$	2	2,961
Tracter shovel	1.8 m^3	1	1,831
Dump truck	8 ton	65	46,747
Forced mixer	0.15 m^3	1.	2,750
Agitator truck	3.0 ton	8	6,346
Motor grader	3.1 ton	2	3,173
Vibration roller	5.5 ton	2	1,142
u	10 ton	2	3,067
Others			38,773
Total			168,000

Table 37 PURCHASE COST OF

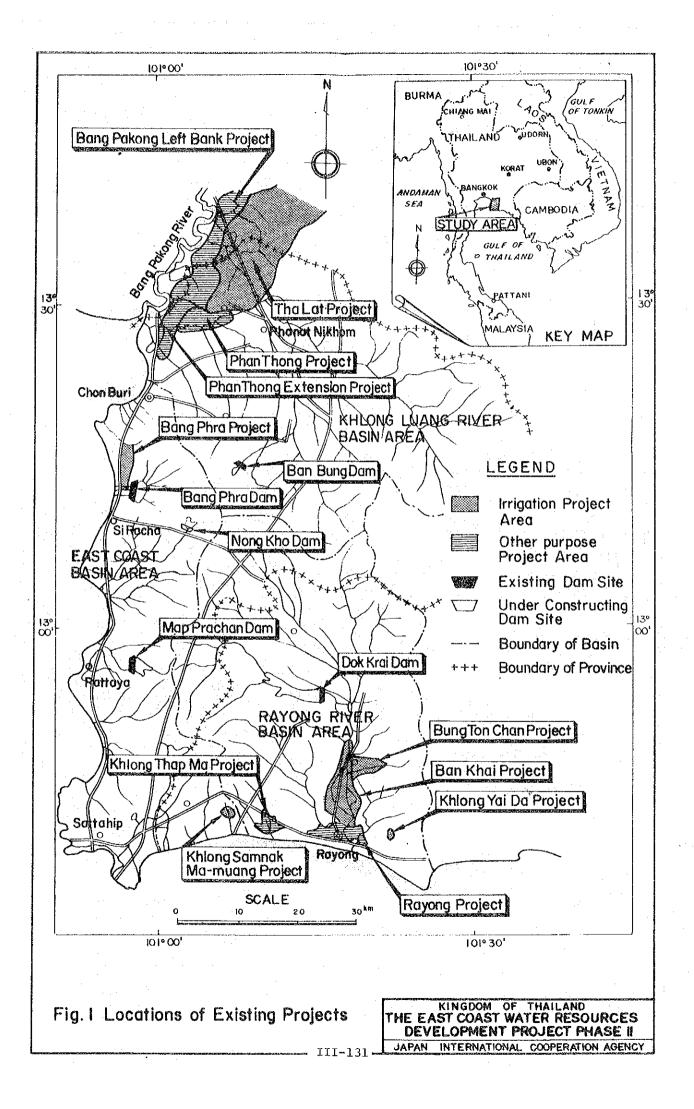
MAJOR CONSTRUCTION EQUIPMENT FOR
BAN KHAI EXISTING IRRIGATION SCHEME

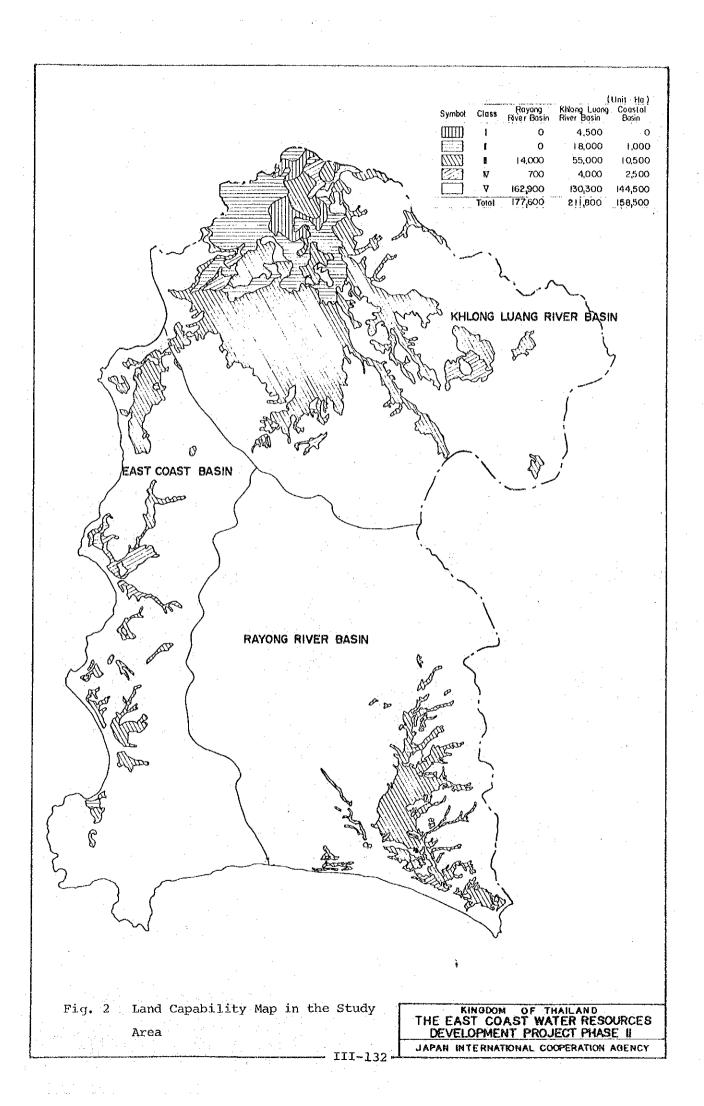
Description		Quantity	Price (10 ³ ½)
Bulldozer W/R	21 ton		9,741
Bulldozer	16 ton	3	5,648
	11 ton	2	2,507
Back hoe	0.7 m ³	3	5,918
u	0.35 m^3	2	2,602
Power shovel	0.7 m ³	3	6,980
Wheel loader	1.8 m^3	1	1,481
Dump truck	8 ton	24	17,260
Forced mixer	0.5 m^3		2,750
Agitator truck	3.0 ton	$oldsymbol{2}$, which is the $oldsymbol{2}$. The $oldsymbol{2}$	1,586
Motor grader	3.1 ton	1	1,587
Vibration roller	5.5 ton	2	1,142
Others	·		17,798
Total			77,000

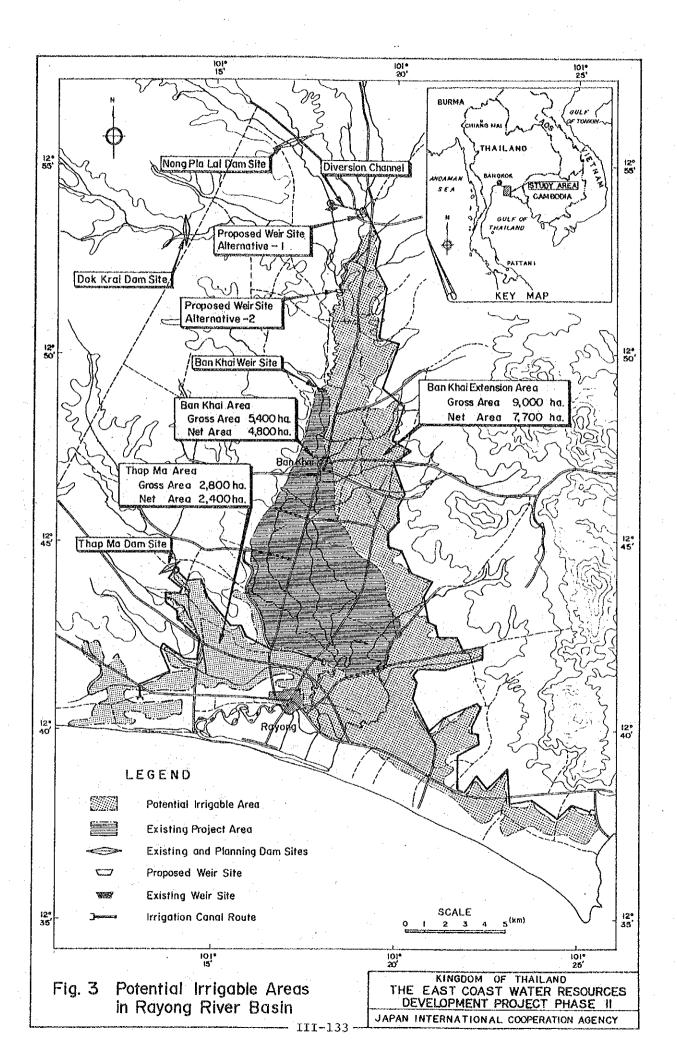
Table 38 PURCHASE COST OF
MAJOR CONSTRUCTION EQUIPMENT FOR
KHLONG THAP MA IRRIGATION SCHEME

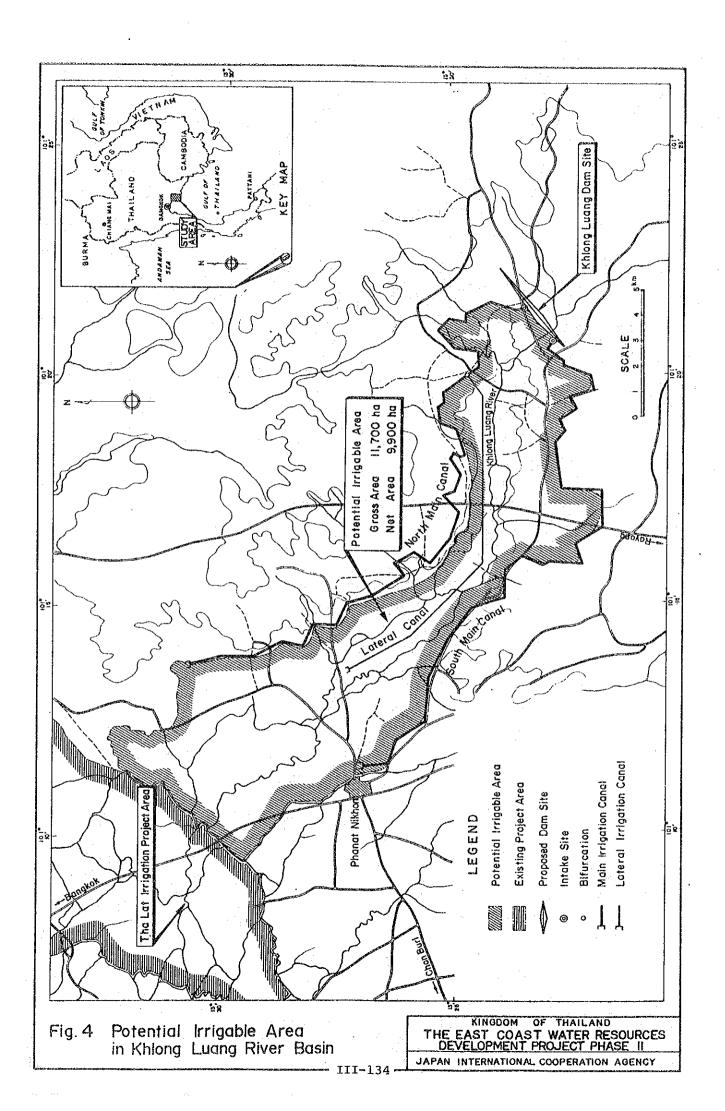
Description		Quantity	Price (10 ³ g)
Bulldozer W/R	21 ton	4	12,988
Bulldozer	21 ton	2	5,827
fi .	16 ton	3	5,648
Back hoe	0.7 m^3	4	7,890
11	0.35 m^3	2	2,602
Power shovel	0.7 m^3	3	6,980
Wheel loader	1.8 m^3	2	2,961
Dump truck	8 ton	34	24,452
Forced mixer	0.5 m^3	1	2,750
Agitator truck	3.0 ton	6	4,759
Motor grader	3.1 ton	2	3,173
Vibration roller	5.5 ton	3	1,713
Others			24,557
Total			106,300

FIGURES









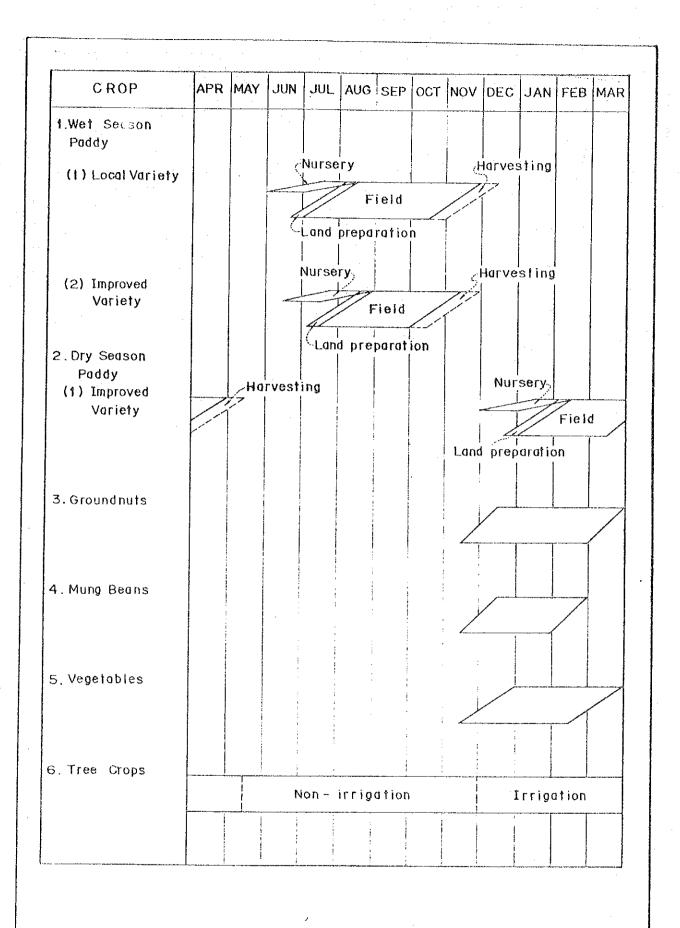
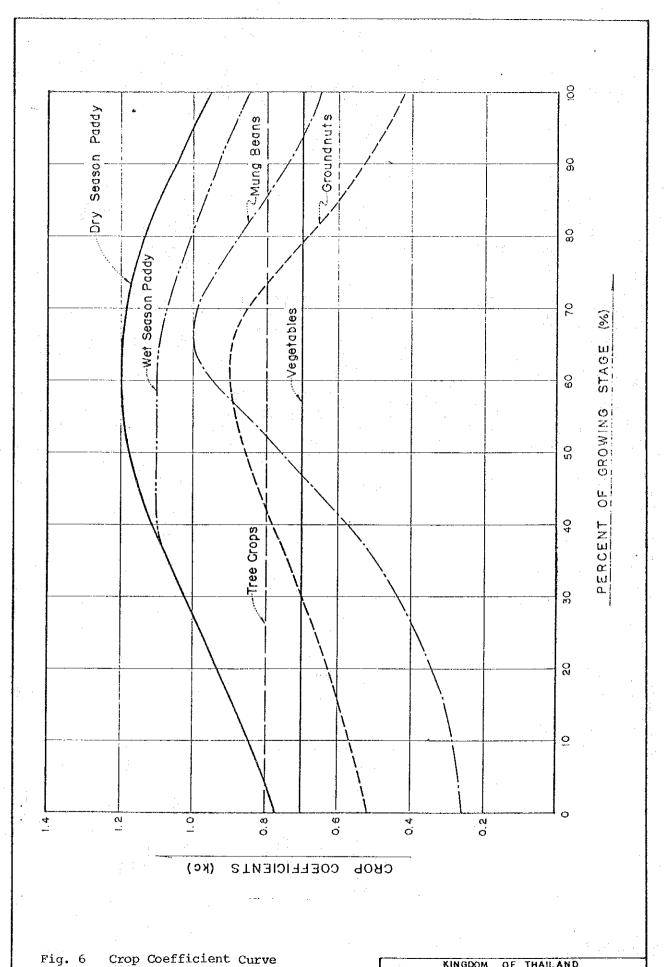


Fig. 5 Cropping Calendar

KINGDOM OF THAILAND
THE EAST COAST WATER RESOURCES
DEVELOPMENT PROJECT PHASE IS
JAPAN INTERNATIONAL COOPERATION AGENCY



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KINGDOM OF THAILAND
THE EAST COAST WATER RESOURCES
DEVELOPMENT PROJECT PHASE II
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