A PPENDIX

	FTOW OR MARK WITHOUT SAND MARK	
	LIST OF TABLE, FIGURE, AND MAP	
	도로를 함을 하실수 있는 것이라고 있다는 것을 보는 것을 보는 것이다. 1996년 - 1997년 - 1일 대한민국 - 1998년 - 199	
		Page
Table E-1.	Project Area - (Greater Mae Klong River Basin)	1
Table E-2.	Stage-Wise Area and Numbers of Tambon, Muban, Households and Sample Parmers	2
Table E-3,	Inventory of Sugar Mill Factory (1977)	3
Table E-4.	Inventory of Sugarcane Cultivated Area (1976/77)	4
Map T-1.	Topographical Classification	5.
Remarks S-1.	Land Classification and Suitability	6
Table S-1.	Chemical Properties of Soil in the Greater Mae Klong Project	7
Table S-2.	Chemical Properties of Soil in the Greater Mae Klong Project	8
Table S-3.	Chemical Properties of Soil in the Greater Mae Klong Project	9)
Table M-1.	Meteorological Data in Kanchanaburi	10
Table M-2.	Meteorological Data in Suphanburi	1.1
Table H-1.	Annual Average Rainfall and Seasonal Pattern	12
Table H-2.	Yearly Run-off Pattern at YK 11 Station (Mae Klong River)	13
Table H-3,	Annual Average Rainfall and Run-off	13
Table H-4,	Maximum Total Run-off of Month in Year	ja L
Table H-5.	Peak Discharge in Year	14
гig. Н-1.	Monthly Mean Discharge	3.5
ľable H-6.	Quality of Water of the Main River in Thailand Annual Average	16
fable I-l.	Irrigated Area on Vajiralongkorn Dam at Stage 1	17
ig. I-1.	Diagram on Calculation of water requirement	18

	사실 하시는 시민들은 생각을 하는 것이 되는 것이 되는 것이 되는 것이 되었다. 사람들이 되었다. 생각이 되었다. 그리고 있는 그 것이 말을 보고 있다. 그리고 있는 그 하는 그 사람들이 되는 사람들이 되었다. 사람들이 되었다.
Fig. 1-2.	Relationship on water supply, water loss and water shortage 19
Fig. 1-3.	Water flow between Canal and Buffer Pond 19
Fig. 1-4-1.	Relationship on storage volume, discharge volume, and storage potentiality in Mae Klong River 20
Table I-4-2,	
Table D-1.	Progress of construction designed
Table D-2.	Drainage canal for purpose of Irrigation in high water level of the Mae Klong River
Fig. D-1.	Flow chart on M/P study of drainage and
Fig. D-2.	Progress chart on study of drainage custom
Fig. D-3.	Canal system on Damnoen Sadual Canal
rig, p-4.	Typical Section on Sea- Defence Date
Table L-1.	Progress on Land Consolidation Project in
Table L-2.	Construction Cost of Land Consolidation Project in Thailand
Table L-3,	Density of Road, Farm Ditch and Drain 29
Table L-4.	Average quantity of Earth moving and Moving distance
Table St-l.	Progress of Irrigation canal length and construc- tion cost on the Greater Mae Klong Project 30
Table St-2.	Progress of Drainage Canal Length and construction cost on the Greater Mae Klong Project
Ceneral Descri	ption of Banchaonen Dam
Table A-1.	Planted Area of Major Crops in Thatland
Table A-2.	Area under Rice and Sugar Came Cultivation by
Table A-3.	Planted Area and Yield of Rice 1975/76 36

			rii yi Ngan
i depte skule fast se Deptember			
		Page	
Table A-4.	Varieties of Non-Glutinous Rice in Thailand Recommended by Central Comittee of Variety Selection (for Central Plain)	37	
Table A-5;	Recommendation of Fertilizer Application for Paddy in Thailand (By Agricultural Extension Division, Ministry of Agriculture & Cooperative, Year: 1977) (for Central Plain only)	38	
Table Λ-6.	Sugar Cane: Planted Area, Production and Farm Value. 1962-1975	39	
Table Λ-7.	Imports: Machinery Agricultural Purposes, 1962-1975	40	
Table A-8.	Imports: Fertilizer, Fungicide and Insecticide, 1962-1975	41	
Fig. Λ-1.	Comparative Chart of Existing and Recommendable Rotation System of Paddy and Leguminous Crops for Mae Klong River Basin Area, Stage I & II	42	
Fig. A-2.	Import of Pertilizers and Agro-Chemicals	43	Marak Marak
Fig. A-3.	Imports of Farming Machinery	ing the	
Map S-1.	Soil Map		
Map S-2.	Land Classification & Suitability		
Мар S-3.	Location of Test Pit		
Map B-1.	Location of Stream-Gauge and Rainfal Station		
Map 1-1.	Map of Irrigation Canal System		
Map L-1.	Partial On-Farm Development		
Map L-2.	Intensive On-Farm Development		
Map D-1.	Main Drainage System at Present		, Harri
Map D-2.	Map of Drainage Canal System		
Turk of Land	-Section of Dam (Ban Chao Non)		
Map St-l.	Classification of Road (Construction Period)		
lage of the first of the second of	水体治理 医皮肤皮质 九克克 医足冠 计可信息 电间接点 医闭底点 经根据证据		
Map St-2.	Type of Road		
	的复数医大学性畸形 医二氏性小脑上腺 电电阻电阻		

Table E-1. Project Area - (Greater Mac Klong River Basin)

	Gross	Area	Irrigab	le Area
	(rai)	(ha).	(rai)	(ha)
Stage I				
Kamphaeng Saen S-P.	316,000	50,600	284,300	45,500
Nakhon Pathom S-P.	375,300	60,000	337,800	54,000
Nakhon Chum S-P.	289,000	46,200	259,900	41,600
Ratchaburi (Left Bar	nk) 213,800	34,200	191,900	30,700
Sub-Total	1,194,100	191,000	1,073,900	171,800
Stage II				
Phanom Thuan S-P	369,200	59,100	332,300	53,200
Song Phi Nong S-P	346,400	55,400	311,750	49,900
Bang Len S-P	351,500	56,200	316,350	50,600
Tha Maka S-P	314,400	50,300	283,800	45,400
Ratchaburi (Right Ba	ink)337,300	54,000	303,600	48,600
Sub-Total	1,718,800	275,000	1,547,800	247,700
STAGE 1 + STAGE 11	2,912,900	466,000	2,621,700	419,500
Damnoen Saduak S-P*	257,800	41,200	153,000	24,500
GRAND TOTAL	3,170,700	507,200	2,774,700	गमभ ,000

NOTE: * This area will be studied in the Master Plan Study.

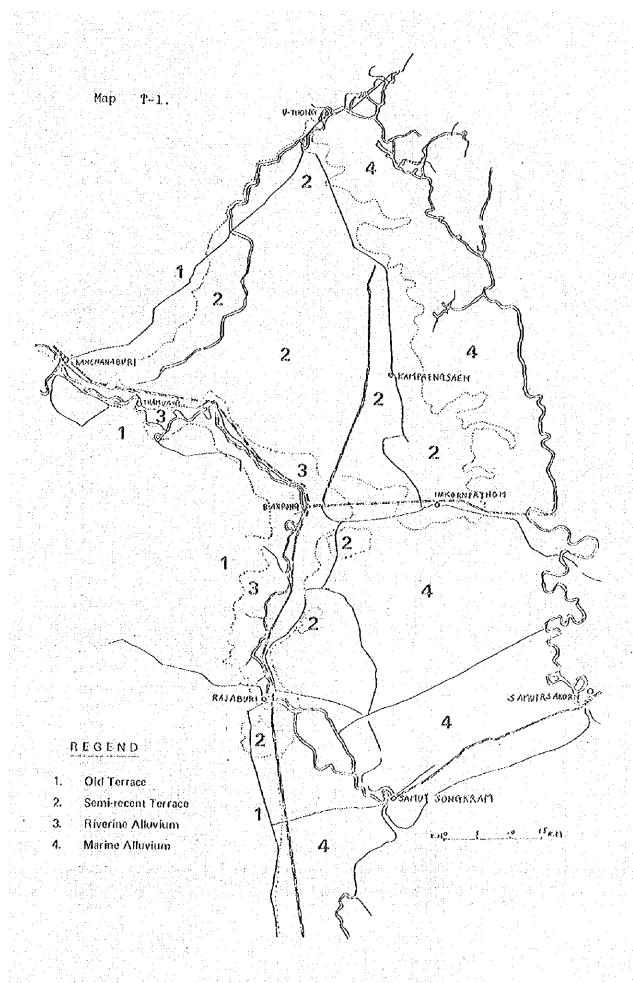
Data Source: Irrigation Office No. 10 at Kanchanaburi.

Number of Sample Farmer	\$ 8	3 8 2 7 3 8	6 <u>7</u> 26	\$1 411	132 100 100 100 100 100 100 100 100 100 10
60	2,814 2,609	5,487 5,653	4,106 2,266	5,092 1,924 29,95±	3,029 4,388 5,450 7,748 20,585 50,536
Number of Household Total Agriculture Non.A	#	8,072 7,373	6,620 2,340	5,336 2,325 43,225	15,208 9,565 10,237 10,492 45,502 88,727
Nu Total A	8 3,22 5,522 5,51	13,559 13,026	10,726	10,428 4,049 73,176	18,237 13,953 15,687 18,210 66,087
No. of	7.08 1.08	2 8 9 6 1 7	0.15 4.55	801 747 801	233 233 2538 2538 2538
No. of Tambon	% O rl Q	8.82	∞ ∖ . ⊢	13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	23 24 31 41 1139 41 1139
irrigable Area (rai)	284,300	337,800	259,900	191,900	960,400 283,800 303,600 1,547,800 2,621,700
Gross irrigable Area (rai) Area (rai)	316,000	estra sir.	289,000	213,800	1,067,000 314,400 337,400 1,718,800 2,912,900
	West of Malaimen Road East of Malaimen Road Chon Pathom		Bank)		
Etrst Stage Kambasan Sam	West of Mala: East of Mala: Nakhon Pathom	In Zone Out Zone Wakhon Chum	in Zone Out Zone Ratchaburi (Left Bank)	In Zone Out Zone Sub-total (1st Stage) Second Stage	West of Malaiman Road East of Malaiman Road The Make Atchaburi (Right Bank) Sub-total (2nd Stage) Total (1st + 2nd)

	Table B-3. Inventory of	of Sugar I	Mill Factory	(1977)	
	Name of Factory	Capacity (ton/day	· · · · · · · · · · · · · · · · · · ·	ocation Amphoc	Changwat
1.	Suphan Sugar Factory	5,000	Yan Yao	Sam Chuk	Suphanburi
2.	Vang Khanai Sugar Factory	3,500	Vang Khanai		Kanchanaburi
3.	Thai Poemphun Industry Factory	5,242	Vang Sala	Tha Muang	그 장에게 하는 경험에 되었다
ŋ	Mid Kaset Industry Factory	7,665	Don Kamin	Tha Maka	-db-
5.	Prachuap Industry Ltd. Factory	9,600	Tha Maka	-do-	-do-
6.	That Rungruang Ltd: Factory	12,980	Tha Mai	-do-	-do-
7.	Mid Ruangcharoen Factory	2,000	Takram En	-do-	-do-
8.	Krungthai Ltd. Factory	2,143	Tha Mai	-do-	-do-
9,	Kanchanaburi Sugar Factory	6,314	- do -	-do-	-do-
10.	Ruam Lap Ltd. Factory	2,924	Tha Maka	-do-	-dö-
11.	Tha Maka Ltd. Sugar Factory	8,224	-do-	-do-	-do-
12.	Thai Sugar Ltd. Factory	7,606	Tha Mai	-do-	-go-
	New Kung Thai Sugar Factory	3,160	-do-	-do-	-do-
14.	Kaset Mabachon Sugar Factory	2,100	Vang Sala	Tha Muang	-do-
15.	Thon Burt 1 Sugar Factory	5,327	Ban Pong	Ban Pong	Ratchaburi
16.	Thon Buri 3 Sugar Factory	3,885	-do-	+do+	-do-
7.	Ratchaburi Industry Sugar Pactory	5,952	-00-	-do-	-do-
	Mid Pong Sugar Factory	7,661	-do-	-do-	69. ÷do-
	Ban Pong Sugar Factory	8,652	-do-	~do~	+ do -
·0.	Photohaburi Sugar Factory	3,500	fha Yang	Tha Yang	Phetchaburi
	Total	13,435			
	Data Source: Irrigatio	n Office	No.10, RID		

Table E-4. Inventory of Sugarcane Cultivated Area (1976/77)

Changwat	Amphoe	Cultivated Area (rai)	Area in ha
Suphanbüri	U Thong	75,000	12,000
	Song Phi Nong	150,000	24,000
	Sub-total	225,000	36,000
Kanchanaburi	Muang Kanchanaburi	100 000	YA KAN
ista Andreas a	Tha Muang	124,240 125,520	19,878
	Tha Maka	71,698	20,083 11,951
	Phanom Thuan	88,580	14,173
	Bo Phloi	43,990	7,039
	Sai Yok	59,310	9,490
	Lan Khan	31,485	5,518
	Sub-total	550,827	88,132
Nakhon Pathom	Muang Nakhon Pathom	00 500	2.000
Taytoni -	Kamphaeng Saen	20,500 78,750	3,280
	Don Tum	9,987	12,600 1,598
	Bang Len	420	.,596 67
	Sub-total	109,657	17,545
Ratchaburi	Brown Datch Dates		
Tere Charlet	Muang Ratchaburi Pak Tho	6,500	1,040
	Ban Pong	6,829	1,093
	Photharam	22,000 39,978	3,520
	Chom Bung	94,600	6,396
	Suan Phung	1.08,174	15,136 17,308
	Bang Phac	375	60
	Damnoen Saduak	240	38
	Sub-total	278,696	40,591
Phetchaburi	Tha Yang	25,500	4,080
	Cha-am	9,360	1,498
	Nong Yaphong	7,700	1,232
	Khao Yoi	940	150
	Sub-total	43,500	6,960
	Total	1,207,680 rai	193,228 ha
Data Source	: Irrigation Office No.	20, RID	
status da Mitalian di de discrito del Cele	or highest life, wheath of the control of	na intraktika bilangan bilang	all the second of the second



TOPOGRAPHICAL CLASSIFICATION

Remarks S-1. Land Classification and Suitability

Ке	marks S-1. Land Classification and	Suitability
	Land Classification	Suitability
1.	Poorly drained clayey soils on riverine and marine alluvium	Best suited to paddy cropping (P-1)
2.	Poorly drained clayey soils on brackish water sediments	Well suited to paddy cropping (P-II)
3.	Area developed in old alluvial fan compounding clayey soil with poor drainage and loamy soil with good drainage	Area with poor drainage-well suited to paddy cropping (P-II), area with good drainage-well suited to upland cropping (U-II)
ή., ,	Area with good drainage, consisting of clayey - loamy old alluvial soils from basic rocks	Well suited - suited to upland cropping and fruits tree planta- tion (U-II/III)
\$	Area with good drainage, consisting of sandy - clayey diluvium soils from acidic rocks.	Suited to upland cropping and fruits tree plantation (U-117/19)
6.	Steep slope area	Unsuited as farm lands (U-VII)
ÿ.	Sea shore deposits	Unsuited as farm lands (P-V, U-V)
	Map S-2. Classification Map o	I Land Suitability

Table S-2 Chemical Properties of Soil in the Greater Mae Klong Project

Soil	Loc.	dom.lnant	pH	E C	Permeability
			sur face/	sur face/	
scries	. Ifa	t exture.	subsur face	subsurface	nun / day
				μmho	
	255	Lic	5, 8 / 5, 6	400/800	5.0
	260	cr.	5, 5 / 5.4	200/ 500	5. 0
Roi	261		5.5/5.8	200/ 400	5.0
Bt	266	CL	6.6/6.7	200/ 200	8.0
	267	C L	6.5 / 6.7	200/200	8.0
	270	C L	6.5 / 7.0	200/ 200	7. 0
	271	ЙС	6.6 / 6.9	300/200	8.0
ustina National State of the State of the State National State of the	274	CL	6.5/7.0	300/200	8.0
	900	S L	66720	2002 2000	8.0
	203	SL	6.6 / 7.0 6.6 / 7.0	200/200	8.5
	204 205	CL	6.5/6.8	200/ 400	8.0
Kampaen	209		5.6/7.2	400/800	9. 0
Saen	211		5.8 \(7.0	400/400	8.0
	212	L	5.6 \(\sigma \)8.2	500/600	9.5
	213	SL	6.5 / 7.0	200/ 300	8.0
	251		6.5/7.2	200/ 100	9, 0
	25%	CL	6.5/7.0	200/800	9.0
	25.8	CI	6.5 / 7.5	200/600	1 0.0
	25.7	SiL	6.0/6.8	300/200	1 0.0
	258	scr	6.1/6,9	300/ 300	1 1.0
	259	CL	6.5/7.0	100/200	1 0.0
والمرادية والمتعمل والمراج والمتعرف					والمنفوا المأليانة فيعيانا منوانا والسد
	201	SiL	6.0 / 6.5	200/ 300	6.0
	202	SiL	5.9 / 6.7	200/400	6.0
	220	SICL	6.0 / 6.8	300/ 600	6. 0
	223	cre:	5, 5 / 6, 0	4, 2 0 0 / 3, 0 0 0	6.0
	245	C L	6.6 / 7.0	200/800	5.0
NaKorn	246	CI.	6.5 / 7.0	800/800	5. 6
Pathom	247	SL	6.2×6.8	200/ 400	5, 0
	248	SICL	5.9/6.8	300/600	6.0
	254	C 1.	6.8 / 7.0	600/600	6.0
	256	C L	6.8 / 7.0	600/500	6.5
	262		7.0/7.1	400/800	6.0
	263	CL	6.9/7.1	500/700	7.0
	264	CL	6.9 / 7.0	5 0 0 / 6 0 0	6.0
	265		6.9 / 7.0	4 0 0 / 6 0 0	5. 0
	249	LiC	7.0/7.0	500/1,200	8.0
Tha Muang		GL CL	. Try DV	600/ 900	8. 5

Table S 2 Chemical Properties of Soil in the Greater Mae Klong Project

Soil	Loc.	dominant	р́н	R.C	Permeabilit		
			surface/	surface/			
series	Na	texture	subsurface	subsurface	ma/day		
		19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -		Timpo	والمراب والمستوين والمستوالية		
	238	нс	2.0 / 7.1	500/2,800	5. 0		
	268	ис	6.5/6.8	2,200/1,500	7. 0		
Rat chabur i	269	H C	7.2/7.2	1,900/1,000	6. 5		
	272	HC	7.0 / 7.0	500/1,800	5. 0		
	273	ЙC	7.0 / 7.1	600/2,700	5.0		
	275	нс	7.0 / 7.2	1,000/1,200	5.5		
	278	LiC	7.0 / 7.2	1,200/ 800	6. 0		
	280	HC	7.0/7.1	1,000/1,400	6.0		
	224	LiC	6.2/6.3	4,700/2,600	6.5		
	225	C L	7.0 / 7.2	200/600	4. 0		
	229	CL	7. 1 / 7. 2	300/ 800	4.0		
Bang Phac	237 239	II C	6.9 / 7.0	100/ 900	4.0		
oding That	240	H C H C	6.8 / 7.0	500/1,200	4.0		
	241	пС	6, 9 / 7, 0	400/1,000	4.0		
	242	нč	7.0 / 7.0	200/1,600	6. 0		
일본 전 강선	243	нс	7.1/7.2 7.2/7.5	400/600	4.0		
	244	нc	7.0/7.3	6 0 0 / 1, 6 0 0 2 0 0 / 1, 0 0 0	6. 0 6. 0		
	226	CL	7.0 / 7.0	1,500/3,000			
Bang Len	227	НС	7.0 / 7.1	2,400/5,800	5. 5 3. 5		
	228	LiC	6.8/7.0	1,200/3,500	6, 0		
	230	H C	7.0 / 7.1	2.000/6,600	8.0		
	206	HC .	4.9/4.8	9 0 0 / 1, 8 0 0	4. 5		
	207	HC	5.0 / 4.6	1,000/1,500	5.0		
	808	CL	5, 2 / 5, 0	800/1,200	5. 0		
	210	C L	6.0/4.5	3,500/1,700	4.5		
	217	CCL	6.0 / 5.0	3,200/1,800	5. 0		
	218	LiC.	6.2/4.8	4,200/2,800	5, 0		
angsit	219	H C	4.6/4.7	600/ 500	5, 0		
	222	H.C H.C	4.5/3.8	600/ 500	5, 0		
	276	Lic	5.0 / 4.2	800/600	5. 0		
	277	ĞL	5,9/5,6	500/ 300	5.0		
	279	ČI.	6.2/5.0	600/ 600	4.0		
	281	LiC	5. 6 / 4. 3 6. 4 / 5. 3	600/ 400	4.0		
	282	нc	6.8 / 5.0	3,200/5,600	3.0		
	284	нc	6, 2 / 5, 2	2,600/4,700 2,800/5,000	3.0		
	285	ИC	5.8 / 4.0	3,000/4,200	3.0		
	286	HC	6.8/4.2	500/1,400	4.0 5.0		
	287	II C	6.5 / 4.1	300/800	3. V 4. 0		
	288	нс	4.8/4.7	500/1,200	5. 0		
	289	нс	4.0 / 3.8	600/1,400	4. 6		
	290	CL	5.6 / 4.8	400/1,900	5. 6		

Table S-3 Shemical Properties of Soil in the Greater Mac Klong Project

\$611	Loc.	dominant	plf surface/	EC surface/	Permeability
series	Ma	texture	subsurface	sub sur face umho	nm∕day
	2 3 1	ВC	7.2/1.1	7,000/8,20	6.0
	232	HC SL	7. (/ 7.) 7. 2 / 7. j	6,500/8,00 7,500/10,20	0 0 5, 0 0 0 8, 0
Tha Chir	1 2 3 4 2 3 5 2 3 6	IIC SL IIC	7.3/7.3 7.2/7.1 7.0/7.1	6,500/10,50 5,000/6,40 4,300/7,60	0 7, 5
	283	iic	7.2 / 7.0	5,200/7,6	

Station KANCHANABURI Index Station 48 450 Latitude 14° 01' N. Longitude 99' 32' E.

Blevation of station above MSL. Height of barometer above MSL. · Height of thermometer above ground Height of wind vane above ground Height of raingauge

29.39 1.20 met 11.40 mete 0.64 mel

28.00

for any provide strategy many spate and an extendible some provide strategy states that the strategy of the service		···	·		••••		*****				د د درخ مرجد المدخم. د	مسورسه درورت	
	Jar	Fc	b Ma	r Ap	r Ma	ıy Jui	n Ju	1 Au	g Sep	Oct	No	v D	ec \
Pressure (-1-1000 or 900 mbs										ني نين نيانيون بالم	4	-	
Mean	13.2	A \$ 2 5 5 5 5 5	5 10.0	4 08.5	05 07,4	9 07.4	2 07.	19 07.1	3 07.	81 10 4	4 12,4	0 1 12	,
Ext. Max.	24.3					Carrier and the con-	and the same of the same		400 Car		2 21:3		36 0
Ext. Min,	04.7			2 01.0	06 99.3								!!} .2 66 .€
Mean daily range	5.29	3.6	3 3.9	3.7	6 49		24.5						991) 931)
Temperature ('C.)													1
Mean	24.9	27.6	30.0	31.2	30.1				والمناوات		ب. المسام		
Mean Max,	32,4	34.8	36.9	37.8		29.0 33.6		برشعها تداؤها بعاوا والمحاص			25.8	21,	
Mean Min.	17.3	20.4	22.3	21.7			$\frac{1.32.9}{24.0}$		32.4		30.9	30.5	- 1. 1
Ext. Max.	37.2	70,0	11.7	43.3	11.6	38.4	$\frac{21.0}{37.8}$		23.7	~	20.3	173	
Ext. Min.	5.5	12.8	11.0	17.2	21.9	22.0	20.8	37.5 21.5	37.6		37.5	35,	
	·			•			20.0	[20.3	18.9	12.0	9.0	1
					1	1							
Relative Humidity (%)													
Mean	61.8	60.1	56.3	58.7	70.0	72.1	73.1	73.9	77.0	79.5	74.5	68.5	
Mean Max.	87.8	85.8	1.83.1	82.0	87,5	87.9	88.8	89.4	91.4	93.2	91.8	90.1	
Mean Min.	41.8	40.2	36.1	39.0	53.1	57.8	58.6	58.9	61.8	65.3	58.9	49.0	
Ext. Min.	0.11	16.0	14.0	17.0	21.0	32,0	34.0	35.0	36.0	43.0	32.0	21.6	. 1 7
Dew Point (C.)				1					·	-			
Mean	17.3	19.1	19.9	21.7	23,5		02.0	A A A				سيخرس ا	Var.
			19.2	21.7	Z3,5	23.1	23.0	22.9	23.2	23.2	21.1	18.2	21
Evaporation (mm.)	. E. E. E.												1
	104.2	109.9	143.0	138.5	101.9	93.6	81.6	83,5	66.8	57.3	67.8	82.1	111
· Pan		*****		}	N					J	07.0	02/1	
Claudinas (g. p)			·					ļ		ļ			-
Cloudiness (0-8) Mean	~^~~	ال رف د المالية والمناجعة						<u> </u>			L		
Treat	3.3	3.5	3.6	4.4	5.8	6.6	6.8	6.9	6.7	5.8	4.5	3.6	1
Visibility (Km.)										-		***********	
0700 L.S.T.	4.9	4.3	5.4	7.8	9.6	10.2	0.5				***********		
Mean	~8.3~	7.1	7.3	9.5	111.2	11.9	9.5	9.0	8.6 10.4	8.0	7.0	6.3	
					11.6	TID	10.0	10.7	30.4	1,01	10.3	9.6	广清
Wind (Knots)													
Prevailing wind	NE	SE	W	W	W	W	W	W	W	W	ŇE	NE	
Mean Wind Speed	3.3.	3.8	4.2	4.6	4.4	4.6	4.5	3,0	3.9	3.4	3.5	4.1	%
Max. Wind Speed	25 ene	25 SE	33 S	50 SE	33 E, W	1	35 SW	la grada de	40 W		INE	30 N	
Rainfall (mm.)											-1 -117		
Mean	2.7	21.8	26.0	~~~			101	188	316.7			ריי <u>י</u> נורי על פורי	
Mean rainy days	1.0	2.1	26.8 3.4	72.7	153.5		107.1	100.4		236.0	60.7	8.6	116
		82.0	45.8	6.2 72.1	14.0 .95.4	[3,1]	15.9	16,9	18.7	15.3	3.0	1.6	H
ta transfer for the entire transfer and the	والأنتينينين	4/70		73.1 30/58		70,8 28/38	64.7					45.6	ال 10
a ili selli si ila sipati ili ta ile		· '	**************************************	101.30	.,,,,,,	20130	23/57	20134	41/10	12/70	3/69	1766.	
Number of days with						ugugata di							
Haze		25.1	26.9	15,5	6.3	3.6	34	3.7	3.1	3.9	0.0	16.0	Į-j
Fog	6.1	6.5	2.2	2.0	2.0	0.3	0.9	1.2	-11	2.2	3.3	-3.3	
Hail	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.3	0.0	0:0	0.0	0.0	~-
Thunderstorm	0.2	1.9	4.2	9.7	12.9	3.1	6.3	3.0	82	7,1	1.5	0.1	- E
Squall	0.0	0.1	0,0	0.6	0.1	0.1	0.2	0.1	0.2	~0,0~{	0.0	0.0	
and the second s	***********			~~~l.			l.	بالمسترسي	l,				

Remark:

1. Pressure 1955---1970

2. Temperature 1952-1970

3. Evaporation 1958---1970

MO SUPHAN BURI _{kx} Station 48 425 gmide 14. 30' N. ggitude 100° 10' E.

Elevation of station above MSL. Height of barometer above MSL. Height of thermometer above ground Height of wind vane above ground 15.80 meters Height of raingauge

7,00 meters 7.50 meters 1.80 meters 0.80 meters

man para manana a pari paga an an a manan an ana an ana an an an		بحوسيتمايي			· · · · · · · · · · · · · · · · · · ·	واستحادتها	ومصممت	بناء أسعما أسويم	والمراجعة	وروانية فالمحافظة	سنينسب أأأد		en er en
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
sure (1-1000 or 900 mbs.)											ar year or a married	
	14.32	12.48	10.83	09.48	07.69	07.32	07.25	07.36	08.22	11.33	13.15	14.14	10:30
Mean Ext. Max.	26.95	·		19,26		**********						24.95	26.95
	04,30	equipment products against the		00.60							and the second second	G4,65	98,78
Ext. Min. Mean dally range	5.19		5.71	5,65					مناويت والمراجع			3.37	
Mean day range												المستدار السندار	
aperature (°C.)		د د ماهاد موجود شاه د	تلمدانناند.	الدسيار	عب ما الماليا	,						-	
Mean	25.4	27.6	29.9	31.2	30.3	29.6	28.9	28.7	28.2	27.7	26.4	24.9	28,2
Mean Max.	31.9	34.2	36.5	37.5	35.5	34.3	33.3	32.8	31.8	31.2	30.5	30,4	33,3
Mean Min,	18.9	21.1	23.3	25.0	25,1	24.8	24.5	2-1.6	24.5	24.3	22.3	19.4	23.3
Ext. Max.	36.7	39.8	41.0	42.2	42.6	37.8	38.0	?6.5	35.6	34.5	34.2	35.0	42.6
Ext. Min.	9.2	12.0	14.8	19.4	20.9	21.8	22.0	22.1	21.3	19.4	14.5	11,9	9.2
]	1						1	1	
						I assi					1.44		
thive Humidity (%)			 <u></u>	ļ	ļ.,,				ļ.,	 			
Mean	64.0	64,9	62,3	61.6	69.1	70.2	73.0	75.1	79.7	79.7	74.8	63.1	70,2
Mean Max.	88.1	92.0	91.4	88.4	88.6	87.7	89.3	1.02	92.6	92,9	91,6	88.8	50,1
Mean Min.	44.8	1.41.0	41,5	12,2	52.8	56.0	59.3	62.2	68.0	68.6	61,2	51.3	54.3
Ext. Min.	23.0	16.6	18.0	21.0	24.0	36.0	41.0	45.0	48.0	48.0	38.0	39.0	16.0
s Point (° C.)			ļ		ļ				,				
Mean is the same of the	18.5	20.5	21.6	22.9	24.2	23.8	23.7	23.9	24.5	24.2	22.0	19.0	22.4
											J		
apparation (nint.)					ļ	<u> </u>							
MeanPiché	20.1	87.3	114.0	113.4	20.2	80.8	71.8	65.4	_46.7	46.L	57.6	75.5	937.9
Pan	131.6	131.0	185.1	205.9	191.7	165.8	154.0	146.2	135.9	120.3	121.0	116.1	1305.1
oudiness (0 - 8)	i												
Mean		4.0					ļ						***
nyvari	3.6	4.2	41.1	. 1.6	5.9	6.5	6,7	6,7	6.6	5.5	4.1	3.5	5.2
sibility (Km.)		100				2.	14 E		1.1				
0700 L.S.T.	4.1	2.7	4,5	6.1	<i>(</i> 0	9.9	6.9	20	6,6	6.7	6.8	6.2	60
Mean	8.3	6.9	$\frac{7.7}{7.2}$	8.3	6.2 9.1	7.2 9.2	8.9	7.0 9.1	8.8	9.7	10.4	10.1	6.0
						7.6	0.7				.,		8.8
ist (Knots)													
Prevailing wind	NE	S ·	S	S	SW	SW	SW	SW	SW	NE	NE	NE	•
Mean Wind Speed	6.1.	6.2	7,2	7.5	7.2	7.8	7,9	7,4	6.6	6.6	7.2	6.6	
Max. Wind Speed	30 NE	30 NE.	331.	45 J.		30 s, sw	34 S.V	30.817	35 S W			21 NE	
						Y				2480000			**********
alali (mm.)			المنب سنب				إستديسي						
Mean	3.2	13.7	41.7	70.1	175.2	113.3	130,6	154.0	322.1	221.3	46.3		1326.5
Mean rainy days	0.7	1.7	2.7	5.4	12.5	12.6	15.2	16.5	18.9	13.8	3.7	1.1	105.1
Greatest in 24 hr.	24.1	30 4			132.2	16.7	71,6	63.0	120.0	111.1	77.0	27.8	132.2
Day/Year	5/61	4,69	13/52	18/6L	21/54	20/56	26/61	22/66	14/64	5/00	3/65	4770	21/54
	ĺ			Î									
aber of days with		المنالدين								المؤسولية			
llaze	.21.0	23.6	.26.3	20,8]1.7	6.6	7.0	7.5	5.2	10.1	19.1	.21.2.	179.1
Fog	.12.1	13.9	_68_	. 2.2	0.3	0.5	0.2	0.5	0.3	0.7	2.4	5.1	0.50
Hait		0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n 3
Hunderstorm	0.3	بالللث	4.Z.	2.1.	1.3	2.1	11.4	11.4	:12.0	8.1	3.3	0.6	3.7.0
Squal1	0.1	0.1	0.4	0.3	0.3	0.1	0.1	0.1	0.0	0.0	0,0	0.0	1.5
		, , ,											

Remark :

1. Pressure 1953 - 1970 2. Temperature 1952 1970 3. Evaporation : Piche 1957 - 1970 Pan 1963 - 1970

Table II-1 Annual Average Rainfall and Seasonal Pattern

I tems Rainfall Station	Average Wet Season	Average Dry Season	Average annual Rainfall	Remarks
Thong Pha Phum	1, 698 mm	216 mm	1. 809 um	Quae Noi River
Percentage	(88)	(12)	(100)	(up stream)
Sai Yok	969 //	214 //	1, 188 //	Quae Noi River
Percentage	(88)	(18)	(100)	(Near Proposed Damsi
Ban Na Suan	678 //	181 //	869 //	Quae Yai River
Percentage	(79)	(21)	(100)	(up stream)
Si Sawat	769 //	287 //	996 //	Quae Yai River)
Percentage	(76)	(24)	(100)	(middle stream)
Muang Kanchanaburi	768 //	251 //	1, 014 //	Near Conjunction of
Percentage	(7.5)	(25)	(100)	Quae & Yal and Noi
Bang Phae	784 "	126 //	910 //	Macklong River
Percentage	(86)	(14)	(100)	(middle stream)
amut Songkhrd	999 // .	225 //	1, 224 "	Coastal area of the
Percentage	(82)	(18)	(100)	Project
		(Observati	on Period 1	966 ~ 1974)

Table H- 2 Yearly Run-off Pattern at K11 station (Macklong River)
unit: m/day

Items	K11 (Mack	long River) Ye	arly Run-off	Percentage	
Year	Wet season	Dry season	Total Run-off	Wet Dry	Remarks
1967	91, 985	17, 818	109, 758	84 16	
1 9 6 8	75, 481	14, 681	90, 112	84 16	
1969	117, 488	26, 458	143, 941	82 18	e e e mante de la como
1970	77, 778	26, 248	104, 026	76 25	
1971	95, 096	19, 896	114, 492	8 8 1 7	
1972	156, 684	81, 895	188, 529	88 17	
1978	114, 108	20, 329	184, 487	85 15	
1974	185, 726	36, 354	172, 080	79 21	
1975	94, 161	27, 316	121, 477	78 22	
Total	958, 407	220, 440	1, 178, 847	81 19	
Average	106, 489, 6	24, 498. 8	1 3 0, 9 8 3	81 19	
	(9, 166, 7 MCM)	(2, 150. 2 MCM)	(11,816.9 MCM)		

Note: Wet Season May ~ Oct.

Dry Season Nov. ~ April

MCM Million Cubicmeter

Table H- 3 Annual Average Rainfall and Run-off

I t ems		1.0		rage Rainfall	1	Average Run-off	
Name of River	٠.	Α	Rainfall	Volum	Total Run-of	Coffeciant	station
	(1)				(4) MCM	(6) = (4) / (8)	
Kuae Yai River	11,	184	960	10, 786, 6	4, 406. 9	0. 41	K 20
		11			. "		
Kuae Noi River	7,	008	1, 500	10, 512. 0	6, 500, 5	0. 62	K 10
		11			11		
Remaining Area	8,	267	1, 000	8, 257. 0	409, 5	0. 46	
		11		MCM	МСМ		
Macklong River	26,	449	1, 115	29, 505, 6	11. 816. 9	0. 88	K 11

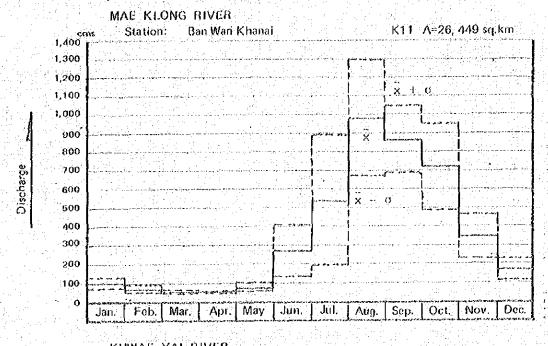
Note: Those value are estimated by observed data in 1987~1975 in Hydrology Division of RID.

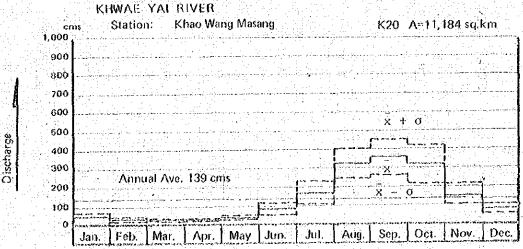
Table II-4 Maximum Total Run-off of month in year

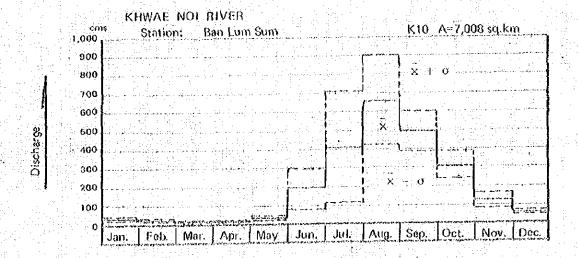
unit m/day I t ems K 20 (Quae Yai R.) K 10 (Quae Noi R.) K 11 (Macklong R.) Run-off month Run-off Year month Run-off month 1967 10, 284 25, 910 Aug. 32, 818 Aug. 1968 9, 603 Aug, 18,680 Aug, 25, 881 Aug. 15, 058 33, 573 Aug, 47, 440 Aug, Oct. 13, 198 Sep. 23, 547 Sep. 8, 080 July 19, 022 July 25, 868 July. 16, 386 Sept. 87, 868 July 42, 993 July 12, 962 Sept. 19, 498 Sep. 81, 228 Sep. Oct. 15; 880 29, 754 Aug. Aug, 42, 859 Oct. 1975 12, 477 15, 018 Oct. Aug. 25, 885

Table H-5 Peak discharge in year

unit m/sec I t ems K 20 (Quae Yai R.) K 10 (Quac Noi R.) Kii (Macklong R.) Discharge Date Discharge Date Discharge Date 1967 21/Aug. 1, 668 20 /Aug, 1, 805 22/Aug. 11/Aug 1, 094 1, 476 17 /Aug. 18/Aug. 987 11/Aug. 2, 854 11 /Aug. 2, 822 12/Aug. 27/Aug. 1, 165 18 /Aug. 1, 839 19/Aug. 848 26/July 1, 859 28 /July 2, 298 29/July 1972 1, 850 20/Sopt 3, 026 17/July 2, 983 19/July 1978 900 25/Sept 1, 728 20 /June 1, 952 21/June 1, 784 14/Oct. 3, 250 21/Aug. 21 /Aug. 3, 561 1975 748 17/Oct. 1, 005 16 /Aug. 1, 449 i 17/Aug.







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	1-6 Quality of Water of the Main River in Thailand; Annual Av	

													æ, ∵	(mdd
River	Sampling Sites	Ö	Mg	N W	×	HCO H	°20,	រី	SIO2	Residue on Evapo	Float matter	Turbi – di ty	E A	Hard- ness
Khorat														
Maekong	Nong Kai	3.1	5. 7	7 7	I. 6	115.6	14. 7	8	٥ ١ ١	139, 2	174.1	134.5	8	101.0
	. Mu kdahan	26.8	6 4	7. 5	4	100.3	12. 2	G	13.8	124 3	6 66	57.1	6 G	87.3
i i i i	Khonkaen	21. 1	0	57.1	က်	2 '69	() ()	94. 5	10.1	244. 7	60, 5	8 8	5. 7	69. 0
C a.M	Ubon Ratchathani	10.9	8	\$0°0	2. 8	42, 4	3	87.8	10.8	165. 2	46.8	80.6	6. 4	36.8
Northern	Valleys													
Ping	Chiang Mai	23. 4	60 60	ග ග	2. 7	102 1	5. 7	ۍ د	23.6	108.6	108.1	80. 6	2 '9	78.5
Wang	Lampang	65 80 80 80 80 80 80 80 80 80 80 80 80 80	4	(2) (2)	60	119.0	1. 7	အ ပ	22 0	125.8	228.9	327. 5	ଚ ଓ	87. 5
Your	Sukhothei	3 T. S	0.9	7. 9	2.8	140.8	63 66	9 0	21. 1	148.4	296.8	255.0	8.8	108.7
Nan	Nan	25. 3	٠ ۲٥	ري د	,(1	105. 5	0.3	1. 5	20.3	110.8	120.2	195. 2	6.9	2 22
Central Va	Valley			,	_									
Chao Phra	Para ya Utnai Thani	60 M	2. 7	80	4.	71. 6	Ö	6. 1	60 60	t.	0 0 0	40.3	6.8	44. 4
	Ayuthaya	22.5	9	80	3. 2	2.66	2	7. 5	ુક કુ	119. 8	192.1	3 221	2 9	72.2
Pasak	Sarabura	& & &	os j	6. 7	6	184. 8	e 0	ග ශ	19.0	182. 3	65.9	32.8	6.9	0 781
Maeklong	Ban Pong	37. 7	8	3.9	6 1	162. 1	0	63	14. 1	350. I	56. 9	7 21	2. 0	129.5
Thai land	Average	19.8	3. 7	10. 7	2. 5	82. &	හ හ	12.7	16.0	7.15. 2	112.0	111.6	6. 8	54. T
Japan	Average 2	8.3	j. 9	6.7	1. 2	31.0	10. હ	က	19.0	74.8	29. 2		l	1
World	Average 3	20.4	89	⊗ 		35. 2	12.1	t√ kš	11.7	J	ì	l	ı	1

. Annual average for 30 Sampling Sites.

Average of 225 River of Japan (Kobayashi J: Nogaku-kenkyu Vol. 48 #2, 1961) . (۱)

³ Cited from Kobayashi J.: Nogaku-kenkyu Vol. 48, #2, 1961(Originaliy from Clarke, F, W, Date of Geochamistry, 1934) & Cited from Kobayashi J.: Nogaku-kenkyu, Vol. 46 #2, 1958

Table I-1 Irrigated Area (1974~1976) on Valiratongkron Dam at atage I

			Irr	igated	Area		
	Irrigable	Wet	Season		Dry	Season	
Year	Arca	Acreage	Water Volume	ma	Acreage	Water Volume	fam
	Rai	Rai	мсм		Rai	СМС	
1974	1, 075, 600	518, 566	298. 91	860	156, 778	65, 70	260
	(172, 096 ta)	(82, 971 ha)			(25, 086 ^{ka})		
Percentage	100 %	48 %			15 %		
	Rai						
1975	1, 075, 600	617, 202	458, 56	5 6 0	166, 179	185. 20	510
	(172, 098Aa)	(82, 762ka)			(26, 689 ^{6a})		
Percentage	100 %	48 %			15 %		
	Rai						
1976	1, 075, 600	680, 870	648, 89	650	191, 400	128. 42	400
	(172, 096 ^{ka})	(84, 869 ^{ta})			(80, 624 ^{kn})		The second of th
Percentage	100 %	49 %		>	18 %	Sept. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	

Diagram on Calculation of Water Requirement rig. I-1. April Type Type I Water Requiement in block 1, 2. 2 April April Type 1 Type Au Total Water Requirement April - Mar. Type [9:1 Ain 2]]:5 Water Require ment in block m,

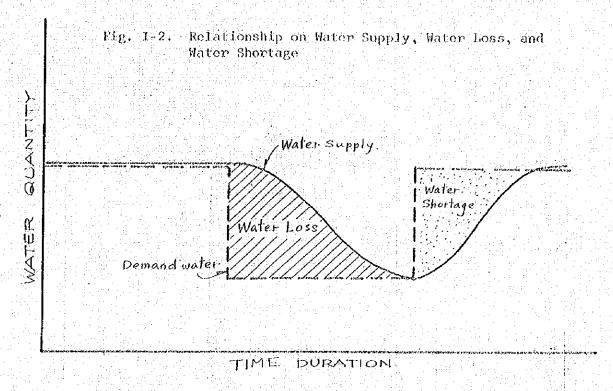
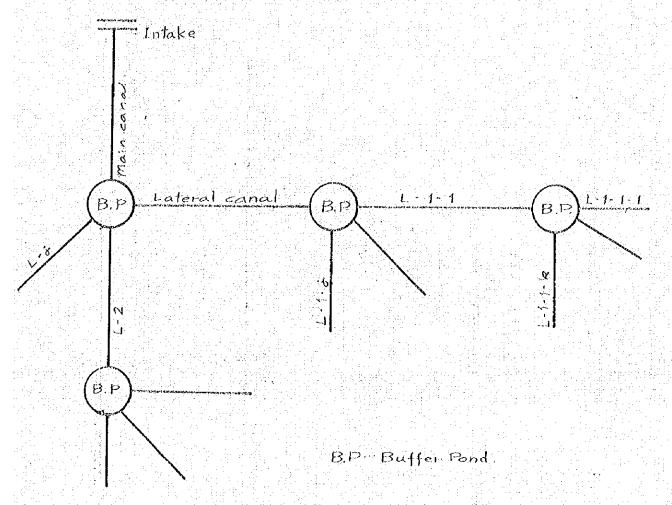


Fig. 1-3. Water Flow Between Canal and Buffer Pond



age. Volume, Discharge Volume, and Storag Storage CO Relationship on

3.ve 2	79 305 BBX30x864003 260 23x10	SKC N				= 1/9 057×30×36400 = 343 = 27×109 = 105	27007	
ischange Volume, and Stonage Fotentiality in Waeklong Riven	=	- 888 (2300 M C M)	291 = -231 169 = -73 266 = -73	18810 170 = -58 255 = -73 327 = -263	-034 TV=17	- 390 = 719 057×30×6 - 390 = 349 = 27×109 - 390 = 105	z (250)	
d Stonage Potenti	0.5TOFWGE VOLUHE Jul. 588 3 Aug. 1059 - 7 Sep. 1053 - 7 Oct. 075 - 5	<i>Tofa</i> /	な市 VOL 60 1 236 1 239 1	5an 178 7an 12 7an 64	O STORAGE POTENTIALITY	5414 509 - 390 Aug. 795 - 390 Sep. 738 - 390 644. 575 - 390		
Thange Volume, an	5 0		Ö		0 0 0 0 0 0 0 0			
Storage Volume, Dis			(5 curve 6.5 curve 6.5 curve			200 - 100 -	1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Relationship on Sto			Stronger & A.	Storage Storage				1, A 3, 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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		ng Stage	Progress	of Const'n.	
Name of Sub-Project Stage I - L.B.	Length (km) 782	C. Cost (B'000) *120,000	Length (km) 300 (38.4)	C. Cost (B'000) 26,370 (22,0)	Kemarks
Stage II, U.R.B.	160	24,550	55.5 (34.7)	5,950 (20,2)	
Stage II, L.R.B.	180	27,600	0	0	
Stage II, U.T.	678	3.04,000	0		
Sub-total	1,800	276,150	355.5 (19.8)	32,320 (18.0)	
L.A.		250,000		1,836,777 (50.8)	

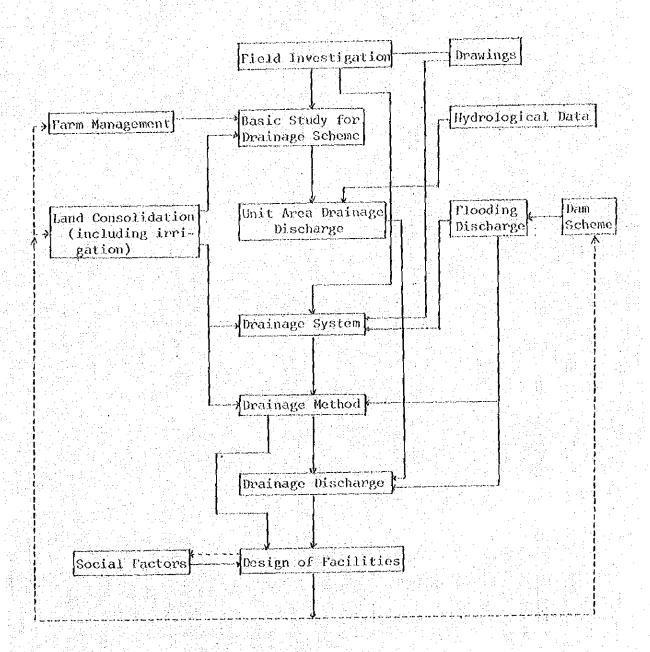
Percentage Left Bank Upper Right Bank Lower Right Bank Upper Thasan U.T.: Upper Thasan
L.A.: Land Acquisition
* Cost Estimate done three years ago.

Cost Estimate done three years ago.

2. Drainage Canal for Fumpose of Irrigation in heigh water level of the Mae Klong River 7e51e

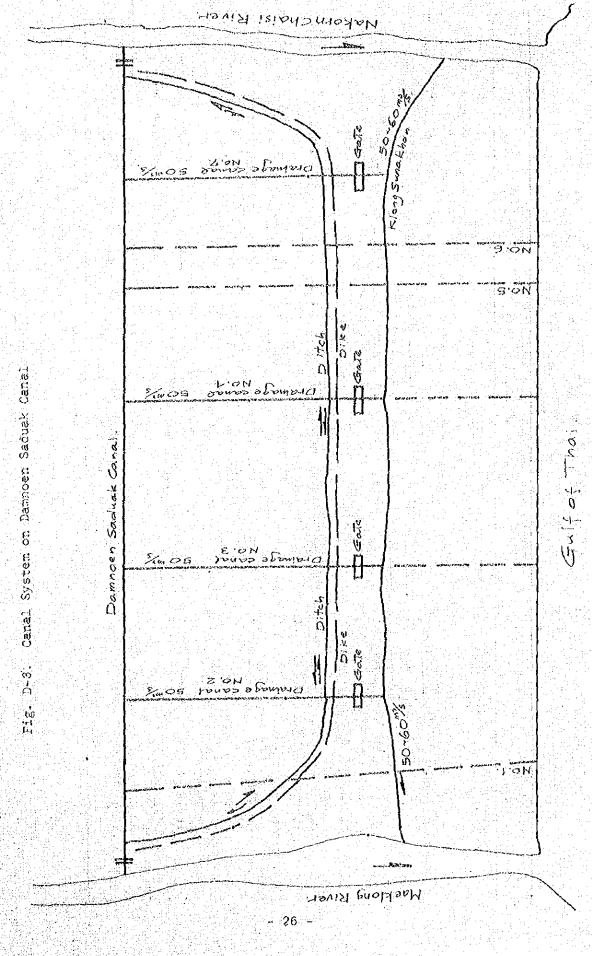
Klong Bang Pa	8. 30 com	Mae N. 018 A. 22,700 m	+1,218 10,820 H		# CO.O.	w sile to see	(50.0 m ³ /s)	# 008°-	850 X1,000 9	
Klong Ta Khot Iz Khot -	Damnoen Seduak	34,500 m (canal)	+2,890 -0,820 -0.820	1/8,300	E F O C W W	29.59 m³/s 28.03 "	(30.0 m ³ /s)	e. 000 e	# x1,000 x1,000 1,1000 0,000 0,000	54.7
Xlong Tha Ra	Ban Xhung Ta Xaeo 	# 888 °05	250 H	1/18,540	E 6.00 %	21.0 m3/s 23.48 "	(65.0 m³/s)	6 00 7	x,000 x,000 3,200 7,200	
Klong Tha Rua	Wat Bang Phra	70,800 m	+10,340 m + 1,250 m	2/6,110	## 0.00 2000 8000	51.92 m³/s 53.96 "	(28.0 m³/s)		7,620 5,500 14,120	0) 0) 74
Klong The Sern The Sern -	321 32 30 61 61 61 61 61 61 61 61 61 61 61 61 61	MAKROD UKALSE 55,740 m	8 6 00 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/5,820	e (1 0 0 0 0 0 0	51.92 m ³ /s 53.95	(9/e 0.48)	1,220 m	\$.500 %1,000 %3 8,950 3,500 12,450	Ø
Name of Canal Location		5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Elevation 3.7 (MSL)	Average Slobe	กา ค. พ. เมื่ พ. เมี่ พ. เม พ. เ	Design R. Discharge E. Z.	Present Possible Capacity	Constructed	Construction Cost Excavation Structures Total	2 / u

Fig. D-1 Flow chart on M/P study of drainage system



Note: --- Field back

Scope of Korks 6. Scope of Korks 6. State Involved Interpretation with Beland Works Interpretation of Basic Valves Interpretation of Basic Valv		98				*	*	*		•	↑	^	•	^ -₩					
Chart on Study of Charts on Stud		হ	C	\		•								\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)			
	painage System	2				⋄	K. y					7			And the second s				
	study	đ	^			1		1											
f works 5. Thems Involved Comprehension on Society ordination with Related Land Consolidation, Irry Ferm Management Ferm Management From Management Thinge Scheme Determination of Basic Inflow Flooding Dischar Ordinage Method (Comparance) Prainage Method (Comparance) Prainage Method (Comparance) Ordinage Discharge Ordinage Method (Comparance) Ordination of Facilities (Cost for comstruction	್ತಿ ೨-೭ ಸಾಂಕ್ಷಾಕಿತ್ಯಂಗಿನ್ನಾರ			Restriction Factors k-	¥02XS	"garton				Valves	0		rative Study)			and maintenance)			
たい アード・大型 はない はんしゅう アー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		ē, o∑ved	Investigation.	Comprehension on Social	ordination with Related	Land Consolidation, Irr	ಸಕ್ಷಾ ಜನಾತಿಕ್ಷಕ್ಕಾಗಿ	Hydrology, Dan	zinage Scheme	Determination of Basic	Inflow Flooding Dischar	Drainage System	Drainage Method (Compan	Drainege Dischange	Design of Facilities	(Cost for construction		 !	



Klong Sunak Hon Natural river / El. +0. 40m Sea-defence-dixe **₩0-1-10** E2.52.40

Typical Section on Sea-Defense Dike

27

L-1 Progress on Land Consolidation Project

	in Thailan	id .					unit	ı ra		ha
	1969 1970	1971	1972	1978	1974	1975	1976	Total	1977	1978
Chanasutr	(160) .1,000	(490) 3, 062	(659) 4, 118	A4	(1,427) 8, 920	表の こうしょいき こく	•		Access to the contract of the	(20,608) 128,800
					l Language	! 				
Sapphaya						(544) 3, 400				
Boromdhart		***		.			and the second second			(11, 833) 73, 958
Nong Wai						-		r Personal School		(11, 360) 71, 000
TOTAL	(160) 1,000	(618) 3, 885	(821) 5, 128	(852) 2, 200	(1,640) 10,258	(2,448) 15,800	(3,270) 20,440	(9,805) 58,156	(7,821) ,48,874	(43,801) 273, 758,

Table L-2. Construction Cost of Land

Cons	solidation Projec	t .	unit Byrai C) T/ 10 A
Project	NONG WAI	CHANASUTR	BOROMDHART	SAPPHAYA
STAKING OUT SURVEYING		(469) 66	(426) 50	(603) 60
LAND CLEARING	(588)	(251)	(268)	(603)
	70	30	81	60
LAND LEVELLING	(7, 278)	(5, 770)	(3, 698)	(6, 909)
	868	689	429	825
FARM ROAD	(2, 154)	(3, 861)	(3, 619)	(7, 646)
	257	461	482	918
IRRIGATION DITCH	(2, 116)	(869)	(850)	(1, 206)
	252	44	41	144
DRAINAGE	(459)	(810)	(882)	(1,742)
DITCH	54	87		208
STRUCURE	(2, 671) 818		(650) 65	(2, 060) 246
с, н, о		(1, 108) 182	(278) 82	
ADMINISTRATION	(779) 98	(729) 87	(1, 625) 198	
TOTAL	(16, 088)	(12, 864)	(11, 080)	(20, 569)
	1. 912 B	1, 586 B	1, 812 ¹³	2, 466 B

Table L-3 Den	sity of Road	, Farm Ditch an	d Drain	() ha
		LENGTH OF FARM DITCH	LENGTH OF DRAIN	REMARK
BOROMDHART	(89, 4) M	(87. 5) 6. 00 ^M	(82. 5) M 5. 20	オランダ方式
NONG WAI	6. 30 (51. 1) M		5. 20 (37. 9)	

7. 38

Table L-4 Average quantity of Earth moving and Moving distance

60. 9) M 9. 75

	SAMPLE AREA	AVERAGE QUANTITY	AVERAGE MOVING DISTANCE
	88A 1	(27. 95) 44. 78 M ³	52.06 M
	8 8 A ·· 2	(20. 57) 82. 92 M ³	85. 77 M
CHANASUTR	88A - 8	(22.95) 86.72	50. 94 M
	8 8 A - 4	(28, 08) 44, 98	60. 11 M
	AVERAGE	(24. 88) 89. 82 M ³	47. 87 M
	722 1	(14. 86 22. 97 M ³	35. 47 M
	7 2 - 2	(18. 51) M ³ 21. 62	83. 50 M
BOROMDHART	722 - 3	(88.69 58.91 M ³	80. 10 M
	AVERAGE	(20. 62) 82.88 M ³	38. 02 M

			Remarks					
eklong Pro		,	Cos os	700	58/2	28.9	0 -1	6.8
he Greater Ma		0.00 0.00 0.00	Length	100	2.16	32.3	თ თ	8.55 20.8
ction cost on t	d Progress	ompleted 1977	Cost x103Baht	1,198,000	209,377	τωο, τοτ	12,455	1,520,867
and constru	ject Cost an		Length km	532.5	297.6	67.0	21.5	918.5
canal length	Maeklong Pro		Cost X10 ³ Bant	1,198,000	360,000	350,000	1,230,000	3,138,000
. Irvi & e = 1.0 m	Greater	i Oto	Length Am	11 15.0	328. u	207.4	550.0	2,618.3
Table SI-1 Progress of Irrigation canal length and construction cost on the Greater Wasklong Project		Imigation Cenal		Stage 1 Left Bank	I Upper Right Bank	I Lower Right Bank	I Upper The Sam River	
10		Erm 168		Stage 1	Stage I	Stage	Stage 1	<u>}</u>

Length km Cost km Length km Cost sant Length km Cost sant Los sant Ength sant Cost sant Ength sant Cost sant Ength sant	Longin Cost Longin Cost Longin Cost		Total	21		in 1977	Progress	SS	
cage I Left Bank 322.5 1,198,000 532.5 1,198,000 cage II Upper Right Bank 226.4 360,000 297.6 209,371 cage II Lower Right Bank 207.4 350,000 21.5 101,041 cage II Lower Right Bank 207.4 350,000 21.5 12,455 Total 1,616.3 3,138,000 918.5 12,455 Total 1,616.3 3,138,000 918.5 1,520,667 Total 1,616.3 3,138,000 918.5 1,520,667 Total 1,616.3 3,138,000 918.5 1,520,667 Total 1,616.0 1,600.0 1,600.0 1,600.0 1,600.0 1,600.0 Total 1,600.0 27,500 0 0 0 Total 1,800.0 275.150 0 0 0 Total 1,800.0 276,150 0 0 0	cage I Left Sank 582.5 1,198,000 287.6 1,999,000 100 <th< th=""><th></th><th>idi sel Majord</th><th>Cost x10³Baht</th><th>Length km</th><th>X10 3Bant</th><th>Length</th><th>0080S 8</th><th>Remarks</th></th<>		idi sel Majord	Cost x10 ³ Baht	Length km	X10 3Bant	Length	0080S 8	Remarks
cage II Upper Right Bank \$22.4 \$50,000 \$27.6 \$209,371 \$91.2 \$52.2 cage II Lower Right Bank \$27.4 \$350,000 \$1.5 \$12,455 \$3.9 \$1.0 Total \$1,230,000 \$21.5 \$12,455 \$3.9 \$1.0 Total \$1,520,867 \$50.6 \$1.00 \$1.0 Total \$1,520,867 \$50.8 \$10.5 Canal Length and construction cost on the Greater Maeklong Project Cost and Progress Canal Length and construction cost on the Greater Maeklong Project Cost and Progress Total \$1,520,867 \$50.8 \$18.5 Total \$1,500,867 \$1,500,86	rage II Upper Right Bank	Stage I Left Bank		1,198,000	532.5	1,198,000	200	700	
See I Lower Right Bank 207.4 350,000 57.0 101,041 32.3 28.9 Cage I Upper Tha San River 550.0 1,230,000 21.5 12,455 3.9 1.0 Total	rage II Lower Right Benk 207.4 350,000 21.5 12,455 3.9 1.0 Total 1,520,867 550.0 1,230,000 21.5 12,455 3.9 1.0 Total 2,616.3 3,128,000 918.6 1,520,867 550.8 180.5 Total 3,138,000 918.6 1,520,867 550.8 180.5 Total Carater Macklong Project Cost and Progress rainage Canal Forgress of Drainage Canal length and construction cost on the Greater Macklong Project Cost and Progress Total Forgress of Drainage Canal Length and construction cost on the Greater Macklong Project Cost and Progress Total Forgress of Drainage Canal Length and construction cost on the Greater Macklong Project Cost and Progress Total Forgress of Drainage Canal Length and construction cost on the Greater Macklong Project Cost and Progress Total Forgress of Drainage Canal Length and construction cost on the Greater Macklong Project Cost and Progress Total Forgress of Drainage Canal Length and construction cost on the Greater Macklong Project Cost and Progress Total Forgress of Drainage Canal Length and construction cost on the Greater Macklong Project Cost and Progress	Stage II Upper Right Bank	328. ₩	360,000	297.6	209,371	91.2	58/2	
Total Total St. Progress of Drainage Canal Length and construction cost on the Greater Macklong Project Cost and Progress Canal Length and construction cost on the Greater Macklong Project Cost and Progress Canal Length and Construction cost on the Greater Macklong Project Cost and Progress Canal Length Annaly Macklong Project Cost and Progress Canal Length Length Length Cost Length Length Cost Cost Cost Cost Cost Cost Cost Cost	Table St-2 Progress of Drainage Canal length and construction cost on the Greater Macklong Project Table St-2 Progress of Drainage Canal length and construction cost on the Greater Macklong Project Greater Macklong Project Cost and Progress Table St-2 Progress of Drainage Canal length and construction cost on the Greater Macklong Project Greater Macklong Project Cost and Progress Table St-2 Progress of Drainage Canal length and construction cost on the Greater Macklong Project Greater Macklong Project Cost and Progress Total Length Ann Along Droject Cost and Progress Total Length Cost Drainage Canal Length Ann Along Droject Cost and Progress Total Length Barry 180.0 27,500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		207.₽	350,000	67.0	101,041	32.3	28.9	
Total 1,520,867 56.8 1.48.5	Total 1,520,867 58.8 1.46.15 3,138,000 918.5 1,520,867 58.8 1.46.15 Total Greater Macklong Project Cost and Progress Greater Macklong Project Cost and Progress Canal Total Total Total Gost Hamble Greater Macklong Project Cost and Progress Greater Macklong Project Cost and Progress Canal Total Total Total Total Gost Hamble Greater Macklong Project Cost and Progress Greater Macklong Project Cost and English Gost Hamble Greater Macklong Project Cost and Progress Greater Macklong Project Cost and English Gost Hamble Greater Macklong Gost Hamble Greater Macklong G	Stage II Upper Tha San River	550.0	1,230,000	21.3	12,455	රා ආ	о. Н	
Table St-2 Progress of Drainage Canal length and construction cost on the Greater Maeklong Project Cast and Progress reinage Canal Total To	Table St-2 Progress of Drainage Canal length and construction cost on the Greater Macklong Project Cost and Progress rainage Canal Total Length Lost Length Lost Total Length Lost Tage I Left Bank 180.0 24,550 30.0 26,370 38.4 22.0 rage II Lower Night Bank 180.0 27,600 0 0 0 0 0 rage II Lower Night Bank 180.0 27,600 0 0 0 0 0 Total Total Total	Total	2,616.3	3,138,000	918.5	1,520,867	30.8	5.8	
Table St-2 Progress of Drainage Canal length and construction cost on the Greater Maeklong Project Cost and Phogress reinage Canal Total Total Total Total Total Total To be completed In 1977 Total Total Total To be completed In 1977 Total	Table St-2 Progress of Drainage Canal length and construction cost on the Greater Maeklong Project Cost and Progress reinage Canal Total To								
Greater Maeklong Project Cost and Progress Total Total Length Al05Babt Am Al	Greater Weeklong Project Cost and Progress To be completed To be completed Foral Length Cost in 1977 Length Cost xx10 Saht X22.0 24.2 Sank 180.0 24.550 55.5 5,950 0 0 0 0 0 0 0 0 0 1,800.0 27.6150 385.5 32,320 19.8 11.7	1000	Drainage C	anal length a	nd construct	ion cost on th	e Greater Mae	klong Pro	ect.
Total To be completed Progress Length km Cost Length Costs km x10 ³ Baht km x10 ³ Baht km 782.0 120,000 300.0 26,370 38.m 22.0 Bank 160.0 24,550 5.950 34.7 24.2 Bank 180.0 27,600 0 0 0 0 0 Rank 1,800.0 276,150 0 0 0 0 0 0 1,800.0 276,150 35.5 32,320 19.8 11.7	To be completed Progress Progress Fotal Length Cost Length Cost Length Cost Rm x10 Mant 8		Greater	Maeklong Proje	ect Cost and	Progress			
Length In 1977 Progress Length Cost Length Costs km x10 Baht \$0 \$0 \$0 Sank 160.0 24,550 55.5 5,950 38.4 22.0 Bank 180.0 27,600 0 0 0 0 0 Alver 678.0 104,000 0 0 0 0 0 0 1,800.0 276,150 355.5 32,320 19.8 11.7 11.7	Total in 1977 Cost Ength Costs Length All Baht Km x10 Baht % % % % % % % % % % % % % % % % % % %	2.5			To be c	ompleted			
Length Cost Length Costs km x10 %Baht %<	Length Cost Length Costs km x10 38ht km x10 38ht 80 3znk 160.0 24,550 55.5 5,950 34.7 24.2 Bank 180.0 27,600 0 0 0 0 0 0 n River 678.0 104,000 355.5 32,320 19.8 11.7		Tot	3]	4	1977	Progre	SS	
38.4 38.4 38.4 38.4 55.5 55.5 55.5 55.5 55.5 55.5 5.950 0 0 0 0 0 0 0 0 0 0 0 0 0	782.0 120,000 300.0 26,370 38.4 Bank 160.0 27,600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Length	Cost *10 3ant	Length km	x10 Bant	Length %	Costs	Remarks
24,550 55.5 5.50 0 0 0 0 0 0 0 0 0 0 0 0 0	27,550 55.5 5.50 0 0 0 0 0 0 0 0 0 0 0 0 0		782.0	120,000	300.0	26,370	8 . & & & & & & & & & & & & & & & & & &	22.0	
27,600 104,000 276,150 355.5	27,600 104,000 276,150 855.5	Kenk	160.0	24,550	(၇ (၇	5,950	31.7	24.2	
10#,000 276,150 355.5	10#,000 276;150 855.5	Stage II Jowen Kight Bank	180.0	27,600	0	0	O	¢	
276,130	<u>276,150</u>	Stage II Upper Ina San River	678.0	000 #01	0	0	0	O.	
			1,800.0	276,150	355.5	32,320	8 5	11.	

General Description of Banchaonen Dam Project

LOCATION : Ban Chao Nensite on the Quae Yai River

CATCHMENT AREA: 10,880 km2

ANNUAL INFLOW : 4,600 MCM

LPOOD

Probable max. flood : 7,100 m³/s

RESERVOIR -

Normal high water level: 1,800 m
Water surface area: 41.9 km³
Total storage capacity: 17,745 MCM
Effective storage capacity: 7,470 MCM
Available drawdown: 21 m

Max. water surface level : 182.4 m

DAM.

Type : Rock fill with center impervious

core

Goology of dam site : Quartzite, Sandstone and Limestone

Elevation of crest : 185.0 m Height : 135.0 m Length of crest : 610.0 m

Volume : 12,300,000 m³

SPILWAY

Type : Open channel chute type

Capacity 2,420 m³/s

Gate: Radial gate 10m x 9.5m x 3

OUTLET

Type : Tunnel type (to be converted from

diversion tunnel)

Gate : Side gate 2.60m x 2.20m

Howel-Bunger valve 260¢

Capacity : 150 m³/s

INTAKE

Type : Reinfoced concrete structure
Gate : Roller gate 6.00m x 800m

7.00m x 930m

PENSTOCK

Type : Welded steel, ring girder type

N.	umber	的过去式和过去分词 化双氯化异苯酚 化二氯化异	
Stage o	f line	Length Diameter	
lst 2nd	3	290 m 6.00 m · 4.50 m 299 m 7.00 m - 5.00 m	

POWERHOUSE

Type : Rainforced concrete building

POWER PRODUCTION

Max discharge

1st stage 133 m 3 /s x 3 units = 399 m 3 /s 2nd stage 199.5 m 3 /s x 2 units = 399 m 3 /s

Total 5

5 units 798 m³/s

Rated head

: 105 m

Max output

lst stage : 360,000 kw 2nd stage : 360,000 kw

Total

720,000 kw

Annual energy production 1,160 x 106 kwh

OUTLINE OF ELECTRICAL EQUIPMENT

(1st stage)

Turbine

Type : Vertical shaft. Francis turbine Rated output : 125,000 kw

Revolving speed 167 rpm

Generator

Type : 3-phase AC synchronous generator

vertical shaft, rotating field

water air cooled

Reted output : 140,000 KVA

Voltage : 16.5 KV

Frequency 50 Hz

Transformer

Type -Outdoor, 3 phase, forced oil, forced air cooled type

Rated capacity 140,000 KVA

Voltage -16,5/230 KV

Planted Area of Major Crops in Thailand

								Unit	1000 ha	
		Prin	Principal Uplan	d Food	Crops		Principal Fiber	Principal Oil		
	R i ce	Walze	Mung Bean	(Cassva)	Sugar Cane	Sub- total	Crops 1/	Seeds	Total	Rubber
1962/63	6, 587	328	9	(A)	102	603	21.12	393	7, 792	748
4	6, 597	\$ 1.8	101	071	00 44 00	808	280	40.5	8, 090	824
16 9	6, 540	5.22		103	16.2	920	339	420	8, 201	935
66	6, 554	577	120	102	-	0 ≯ 8	516	428	9, 378	176
2.9	7, 433	653	136	130	124	1, 043	667	5223	9, 666	983
889	6, 658	772	133	⊢ 4	150	1, 168	57.72	526	8, 864	1 182
Ø.	7, 228	762	200	F1 2- F1	182	1,815	439	523	9, 507	2, 212
20	7, 584	089	208	18 1	118	1, 197	521	rel rel W	9, 813	1, 244
r.	7, 494	82.20	239	224	133	1, 430	503	554	9, 98 <u>1</u>	1, 276
7.2	7, 527	1, 619	148	221	138	1, 528	558	129	16, 182	3, 308
73	7, 349	266	205	10 60 60	181	2, 718	582	10 11 90	10, 264	1, 340
7.4	8, 365	50 A. C.	233	& & & & & & & & & & & & & & & & & & &	692	2, 068	5. 21.2	\$79	13, 622	1, 872
13	7,982	1,240	202	488 88	310	2, 245	ණ ර ග	888	11, 418	3, 40€
4	0000	G •								

Source: Agricultural Statistics of Thailand, 1975/76.

Note: 12/1: Fiber crops consist of cotton, kapok, bombax and kenaf.

2/1: Oil seeds consist of castor bean ground nuts, sesame, soy bean

2/: Oil seeds consist of castor bean ground nuts, sesame, soy bean and coconuts.

	ana-Suph	anburi	Ratchaburi	Nakhon Pathom	Petcaburi	Samut Songkram	Samut	To cal
otal Area	о ч	£5	S 1 S	22.24	548		8 O H	4, 022
gricultural Land	04	ဖာ တ	2.80	rd ⊗ 	127	જ હો	O P	1.216
ultivated Area	01 26	\$3	112	027	⊢√ δ) ⊢√	4)	838
addy Land Folding	64 24	2	1.07	(O)	4.	۸)	&3 Ø	&8.0 4.00
trea Planted to Rice	57 24	٥) • • • • • • • • • • • • • • • • • • •	102	88.7	29	N	& 2	627
let Season Rice	т) С		о. О.	7.4	φ 4	Α)	8	204
bry Season Rice	2	50.7	⇔	55. 2	O 6		7.2	3.9.6
Sugar Cane	& & & &	ر در د	80	 ⊗	6			201
Sketio of Double Croppe 3.4 21.0 8.8		21: 0	8	42.8	W.		25. 7	6.7

Production Xie		Season		0	30 ta	
(1000 hg) (1000 tons)	d Planted , Area , (1000 hz)	Production Y (to	Yield Planted (ton,) Area (1000 hg		Nanted Production Yield Area (1000 kg) (1000 tons)	Yield (top)
14, 092	65 377.3	1, 208 1 3	3. 20	8, 896. 3	15, 300	1 72
Central Plain 2, 275, 5	88 133 3 1	440,3	3. 30 3.	2, 408.8	5, 647	හ ග , 1
Related Changwat	24 119.8	418.6	49	626. 8	1. 50.0 1.	2.48
Kanchanaburi	ශ ස් රා	0. 59	හ ර ශ	57. 2	i0 0	1.84
Suphanduri	52 50.8	174.5	en √*	241.7	10 10 9	2 71
Retenaburi	₩ ₩ ₩	7.9	2. 32	102. 4	22.5	2.19
Nakhon Pathom	4.3 55.2	208.6	3 7 8	 20 80 80 80	28.7	3.03
Perenaburi	3.0	<i>ත</i> ග්	 (0 (0	66. 7	.24	85
Samut Songkram	89 rt	1,	1	оо .4		2. 18
Samu t Sakbon 21.0	93		3 37	28.2	ъ Ф	2 0 4

Source - Agricultural Economics Division, MOAC

1. Report on Yield of Dry Season Rice in 1976

Varieties of Non-Ciutinous Rice in Thailand Table A-4

Recommended by Central Comistee of Variety Selection

Vear: 1975/76

Name of Variety	Date of	A e igh	t Grain	a size	គឺ	Disease & I	Insect Resistance	2006	₩ 9 3.	rd
	Harvesting or		ar in said Said an Said an	S.	Blast		Bacteria	Hopper	6	
	Growth period	(g) .	(~1	.) ≱		Virus	Leaf Blight	Burn	1 9 3 C 14	Alleger manor
Sensitive Varieties									ko/Rai	\$ 50 Jet
1. Cow Ruang 88	21 Nov.	140	2	2 7.3	4. 10	Suscept	S	ý	6 164 10 164 10 164	2.59
2. Nahng Mon. S. — 4.	25 Nov.	140	1. 8.1	2.7	4.5	င်းသ လ လ	Ø	Ø	60	2, 72
8. Khao Pahk Mawh 148	ပီ ၈ က (၉	140	1.5	5 7.6	જાં જ	ဟ	MW	S	က မ မ	239
4. Leaung Fratew 123	Now St	69.∓	⊗ ⊗ 0	3.7.4	4.5	တ	×.	S	4) (-) (4)	
Non-Sensitive Var.										
1 RD-1 (Luang Tawng x IR-8)	125 days	년 11	 ⊗ 	2 7.0	5. 0	Resis —	S	Ŋ	742	4 638 88
2 RD-3 (LT × IR-8)	120 ~ 130	110	1.8 2.	2 7.2	ฑ์	tant R	S	S	367	4
8. RD—5 (Pueng Nahk x Sigadois)) 140 ~ 150	10 60	4. 2.	2 7.15	ю́ 4	MER	MR.	S		
* RD-7(C-63 x Cow Ruang 88 x Sigadois)	120 ~ 130	10 1-1 1-1		3 7.3	4.5	MR	8	S	572	4. 20
5. RD-9 (CNT1876 x EK1252 x RD-2)	¥¥5 ~ 185	0 F	8::8	2.3 7.3	w	MR	Ø	œ	200	0r. 4

Note: Blast resistance -- 1 - 4 Resistant, 4 - 5 Middiam, 8 - 7 Sensitive

125~130 114

RD 11(IR661 x Khaid Dawk

ഗ

(4) (5)

	33881 33881	application			Top-Dressing		/88%
Varietal Series	Ammophos	28.00	13 84	Top-Dressing	to	2 20	2 nd Top-Dressing
	(formale)	Xgs/Rai	(X126	(Kind of Nitrogenous)	;enous	(Kind of	of Mitrogenous)
			(JH)2804 20 %	NH 407.	Ures 45 %	(NE4)2504	12 kg
Non-Sensitive Varieties							
(Elga Tielding Veriety)	16 - 20 - 0	۶		0.			
) @	† v) { p−	v a v r		7,70	8 8
	20 - 20 - 0	8	: A	, ∞	, iv	4 %) 'č
618	16 - 16 - 8	%	A	ထ	, K	3 8	i A
(Improved & Tocal Variate)							
Coarses 888							
Naing For S - 4	100 100	500	4	•	α,	4	27
Xneo 222 723		9 P	×r.	w)	CV	77	22
Leaung Frater 123.	, (c	}- \	1			A :	ω (
322100				•	•	ဌ	O

Table 4-6. Sugar Cane: Planted Anea, Production and Ferm Value. 1952 - 1975

	(1) Average Vield 1,000he	
	Hanvested Area	
	2) and a And a d 1,000 ha	(a) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Value. 1962	Farm Value	64 64 64 64 64 64 64 64 64 64 64 64 64 6
ion and Farm	Sanm Price beht/tons	11040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
pez, Production	Production 1,000 tons	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6. 6. 6. 6. 6. 6.	Average Mield Tons/Pel	
8.00 8.00 9.00 9.00 9.00 9.00 9.00 9.00	Ranvested Area .000 rai	1
7a22 A-6.	ျင္းမွာ (၁)	
	% C	11 11 11 11 11 11 11 11 11 11 11 11 11

Table A-7

Imports: Machinery and Appliances for Agricultural Purposes, 1962-1975

	Agr. mack appliances ing and cuthe soil	for preparallitivating	ery and a	ral machlir- ppliances, 2)	(8) Water pu	. 建国际基础
A.D.	unit	1, 000 baht	unit	1, 000 baht	unit	1, 000 baht
1962	6, 568	14, 958	3, 594	4, 425	11, 861	63, 232
1968	15, 481	19, 888	4, 374	4, 012	19, 741	68, 552
1964	13, 547	20, 409	4, 078	4, 528	26, 981	41, 288
1965	18, 414	19, 661	4, 266	5, 891	89, 099	43, 791
1866	44, 700	26, 699	6, 178	9, 145	60, 928	48, 620
1967	51, 564	23, 924	5, 001	9, 498	82, 126	78, 281
1968	25, 802	20, 907	6, 641	16, 929	151, 343	71, 262
1969	83, 878	20, 420	7, 010	12, 750	106, 666	77, 608
1970	16, 873	13, 877	8, 888	10, 936	186, 686	107, 882
1971	18, 786	12, 279	8, 792	15, 266	105, 109	185, 700
1972	18,628	10, 246	7, 195	12, 297	90, 092	103, 204
1978	24, 524	8, 997	9, 080	24, 429	160, 095	102, 880
1974	55, 691	28, 205	6, 678	88, 248	168, 524	168, 748
1975	2, 180	27, 175	6, 560	72, 664	149, 021	192, 542

- (1) Ploughs, harrows, cultivators, seeders and other agricultural machinery and appliances for preparing and cultivating the soil.
 - (2) Harvestors threshers and hullers, textile separators, sortors and graders, lawn mowers, dairy farm machinery and appliances, incubators and broaders, machine and appliances for sheeting, mixing separating and packing rubber and others.
 - (8) Water pumps and other pumps for liquid except special pumps for dispensing liquid fuels.

Imports : Fertilizer, Fungleide and Insecticide, 1962-1975

Year			1	ertiliz	er				Fungicide and	l
1 (2.1)	Nitr	ogen	Phos	phate	Pot	ass	Otl	iers	insecticide (I)
	tons	1000 Baht	tons	1000 Baht	tons	1000 Baht	tons	1000 Baht	tons 1000 Baht	
1962	33, 164	32, 336	21, 829	83, 954	1, 604	1, 967	10, 870	17, 186	3, 586 49, 698	8
1968	46, 730	44, 841	30, 508	48, 427	2, 006	2, 451	18, 134	80, 104	4, 782 58, 198	8
1964	80, 487	45, 718	88, 451	66, 698	782	1, 007	80, 807	49, 992	s, 695 73, 170	0
1965	33, 357	46, 800	24, 099	89, 218	2, 199	2, 802	29, 288	56, 611	6, 747 89, 656	S
1966	51, 029	69, 984	49, 440	86, 080	2, 119	2, 775	88, 841	65, 484	9, 006 . 208, 315	5
1967	57, 485	75, 444	89, 803	147, 038	3, 259	4, 884	67, 897	118, 576	11,774 179, 592	3
1968	46, 576	73, 994	134, 294	226, 617	3, 858	4, 658	80, 760	187, 800	14, 186 198, 146	3
1969	25, 781	36, 649	125, 752	191, 049	2, 750	3, 918	111, 846	167, 827	15, 705 230, 681	l .
1970	11, 812	20, 868	79, 991	121, 880	3, 968	5, 666	153, 848	247, 744	11, 967 , 186, 584	1
1971	53, 414	79, 295	53, 262	81, 846	4, 781	7, 662	121, 886	202, 969	5, 992 129, 727	7
1972	89, 250	61, 465	116, 856	202, 556	6, 408	10, 865	225, 818	875, 882	12, 003 224, 851	k .
1978	87, 656	63, 926	70, 224	187, 197	13, 224	81, 272	272, 612	592, 288	14, 617 312, 010)
1974	51, 614	157, 846	86, 009	154, 982	10, 920	36, 917	240, 044	965, 493	13, 288 395, 074	1
1975	86, 068	217, 482	900	3, 210	25, 980	61, 951	812, 287	1, 331, 436	8, 218 316, 782	2
·			· · · · · · · · · · · · · · · · · · ·	اد طاخیت در جا	لايد بيارو أو					

⁽¹⁾ Insecticides, fungicides, disinfectants, weed-killers, anti-sprouting products, rat poisons, animal dressings, Naphthalene ball, and Moth balls.

COMPARATIVE CHART OF EXISTING AND RECOMMENDABLE ROTATION SYSTEM.
OF PADDY AND LEGUMINGUS CROPS FOR MAE KLONG RIVER BASIN AREA, STASE I & 11 FIGURE A-1

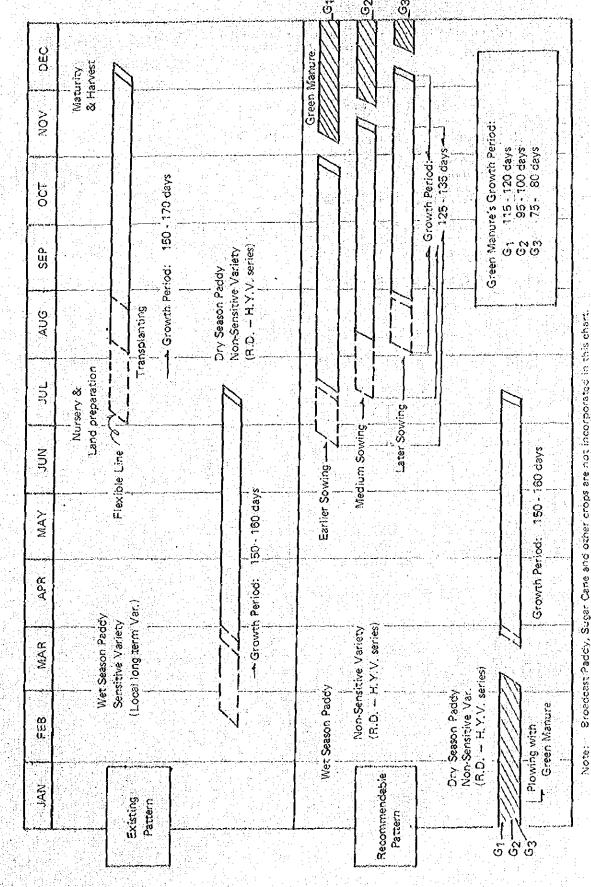
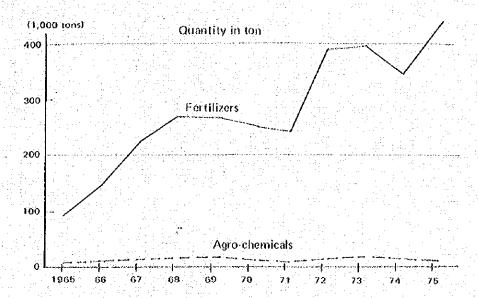


FIGURE A-2. IMPORT OF FEBTILIZERS AND AGRO-CHEMICALS



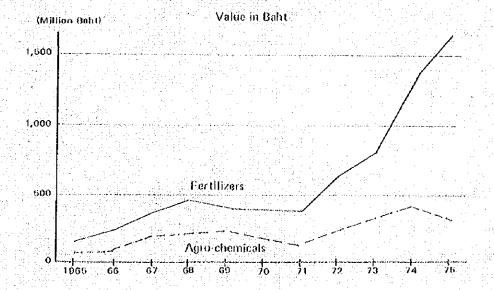
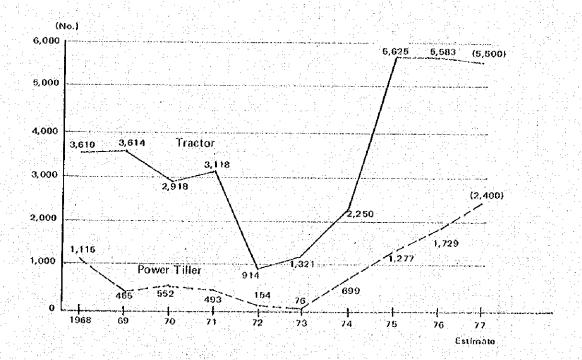
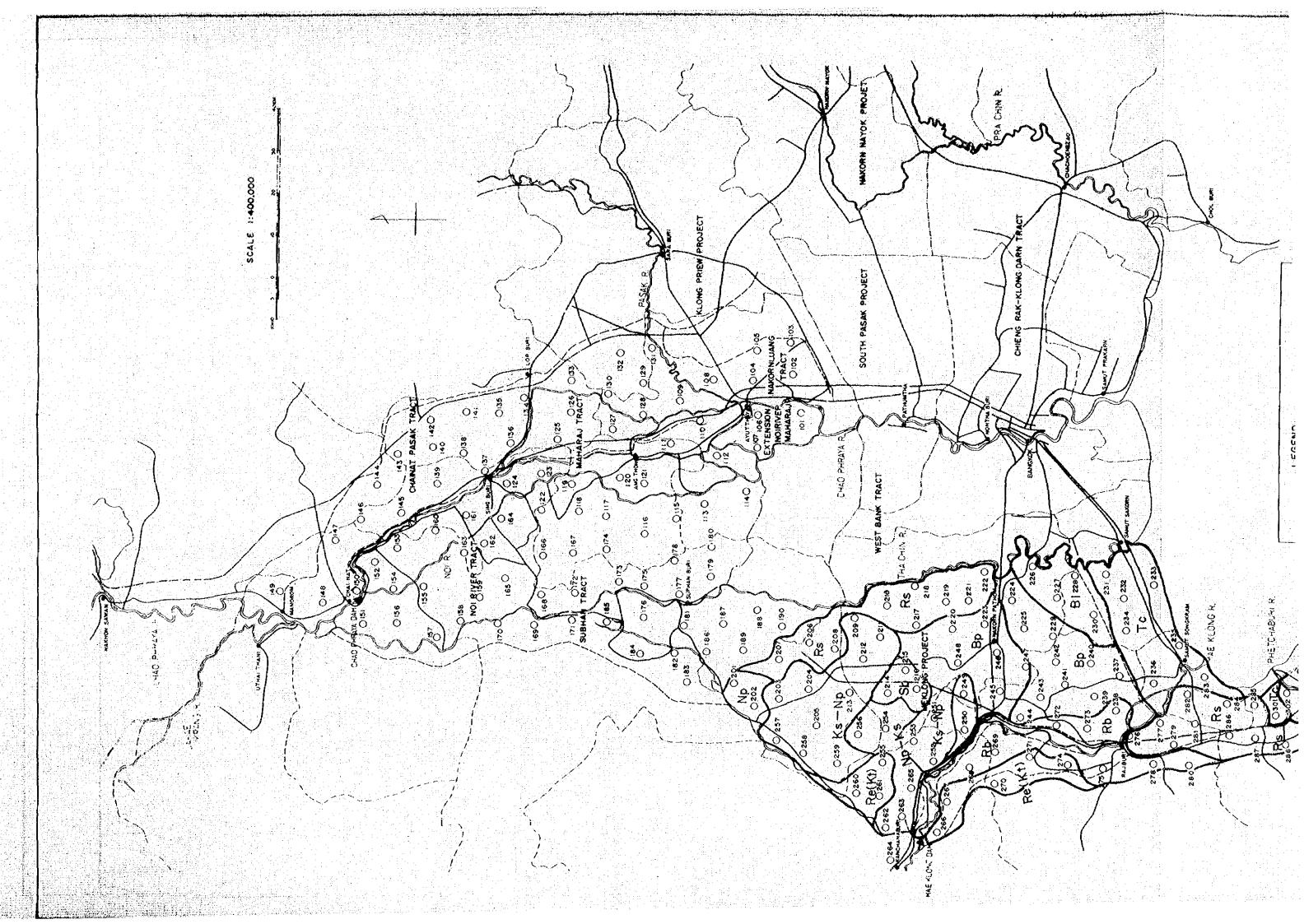
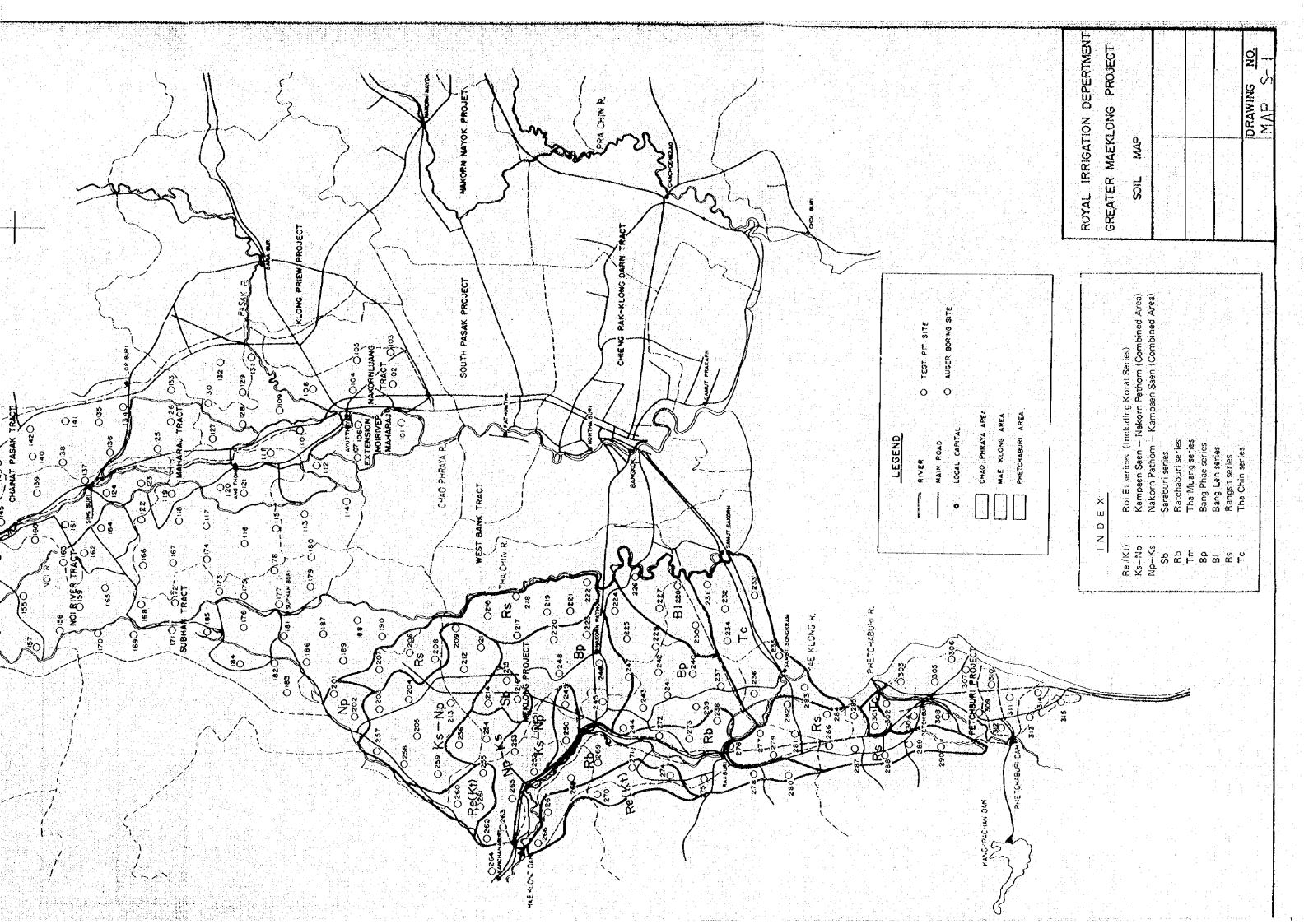
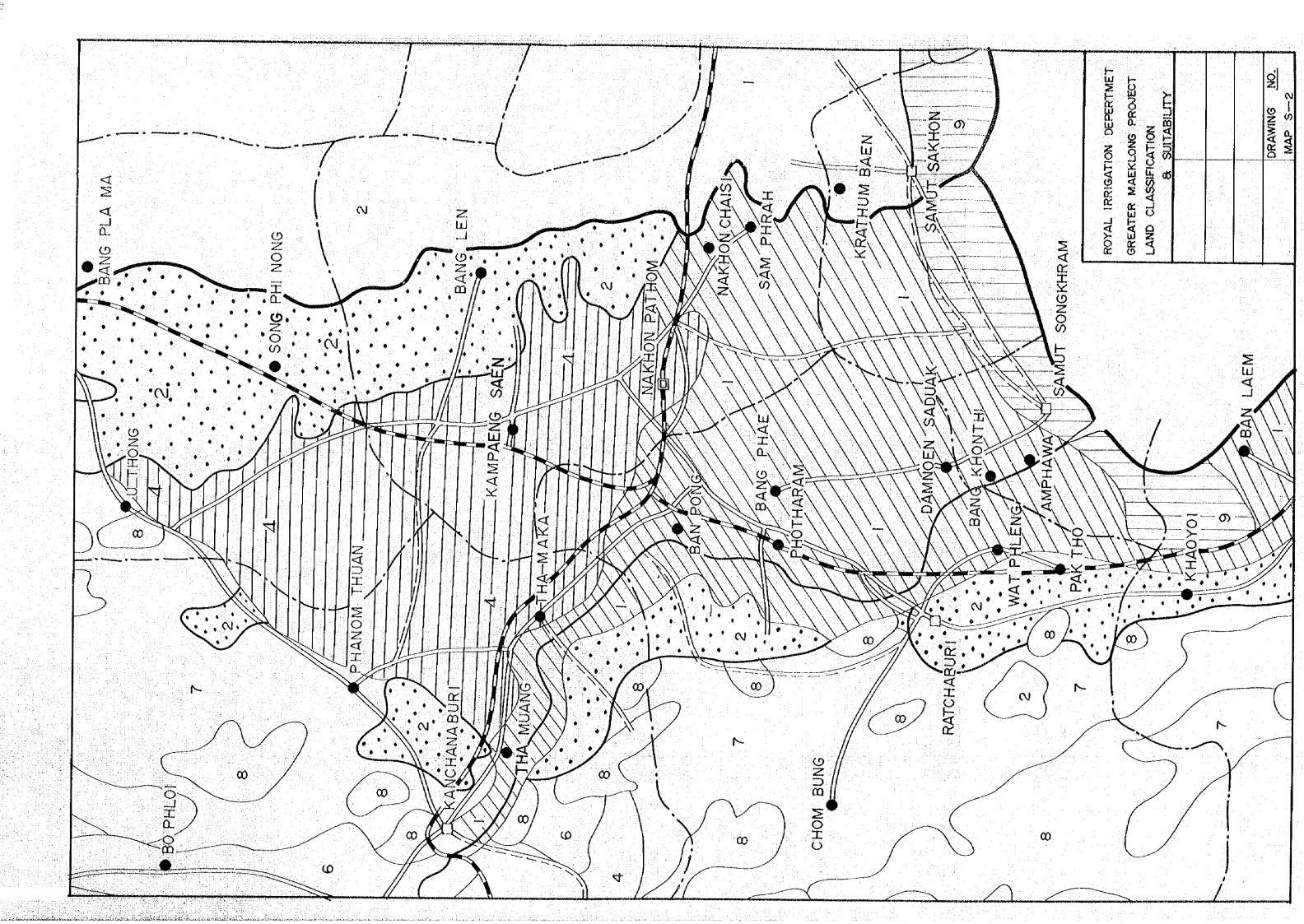


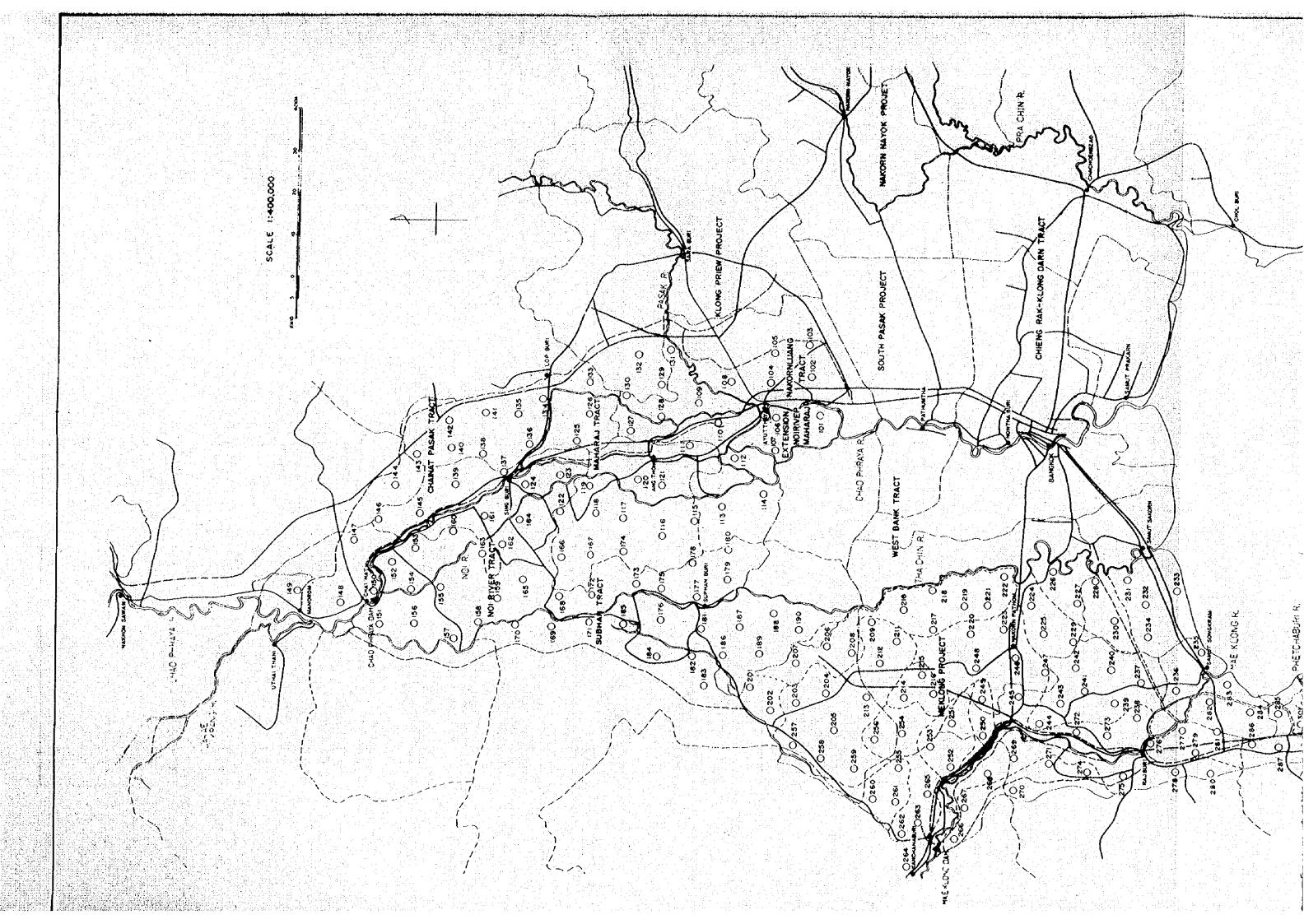
FIGURE A-3. IMPORTS OF FARMING MACHINERY

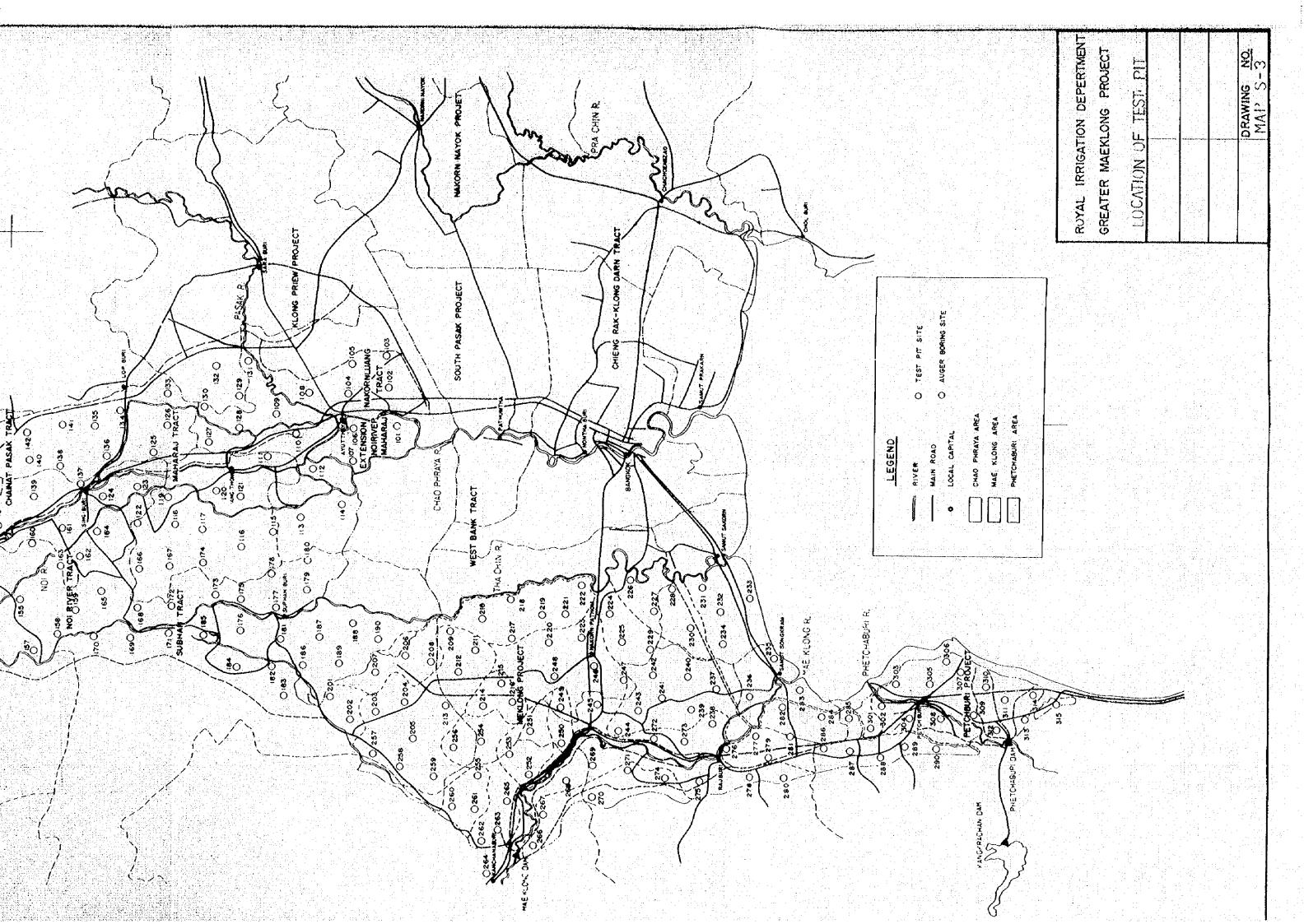


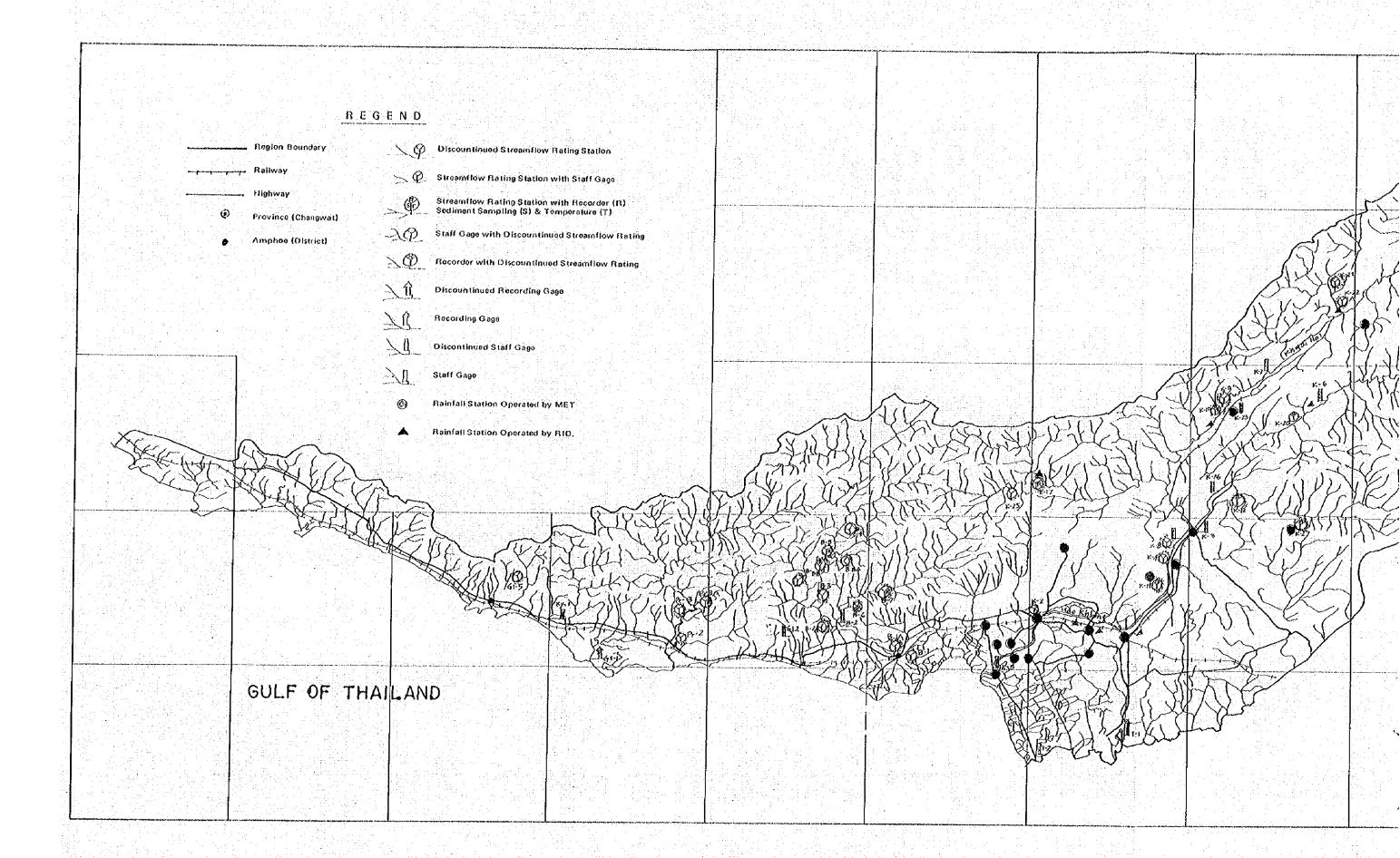


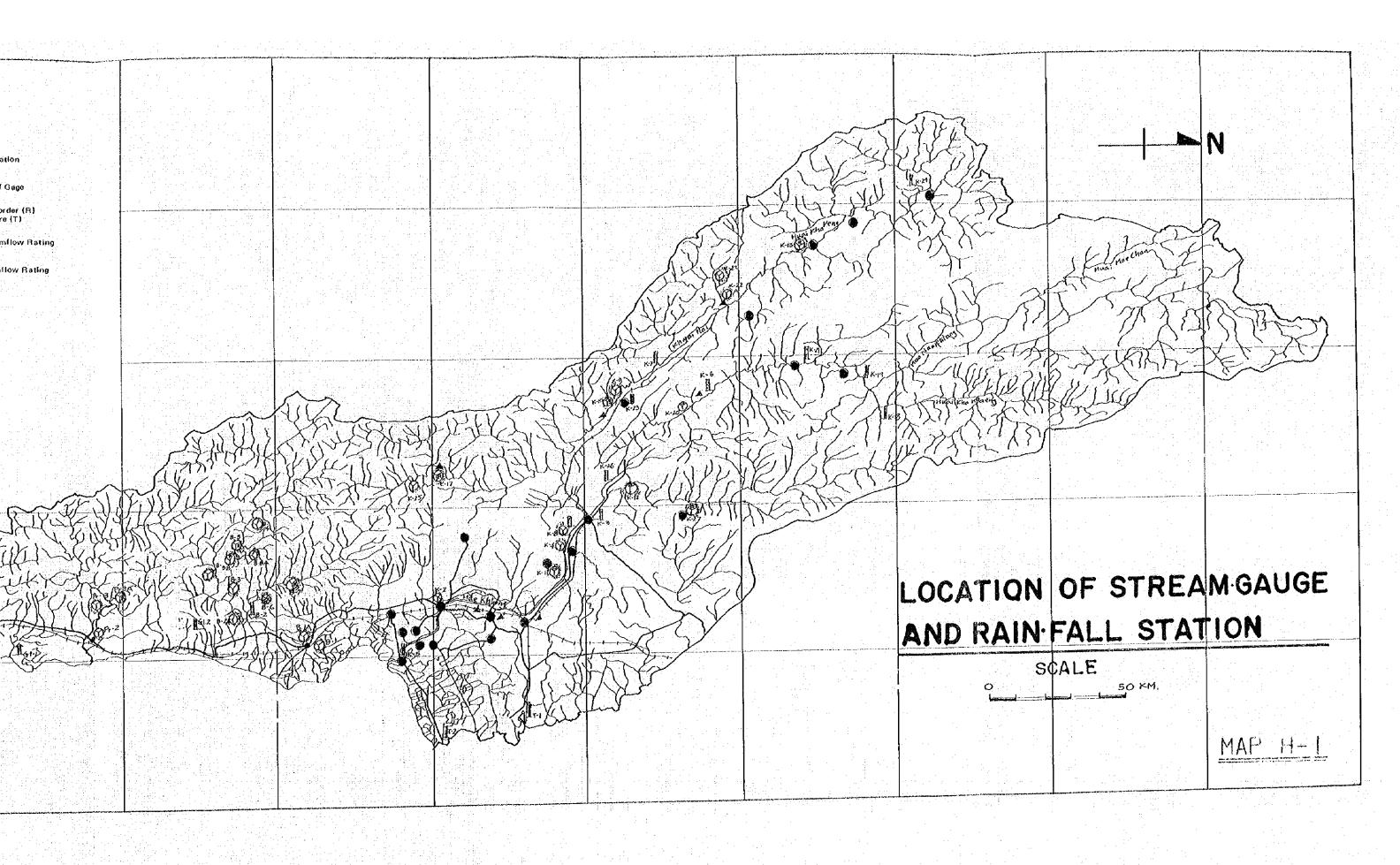


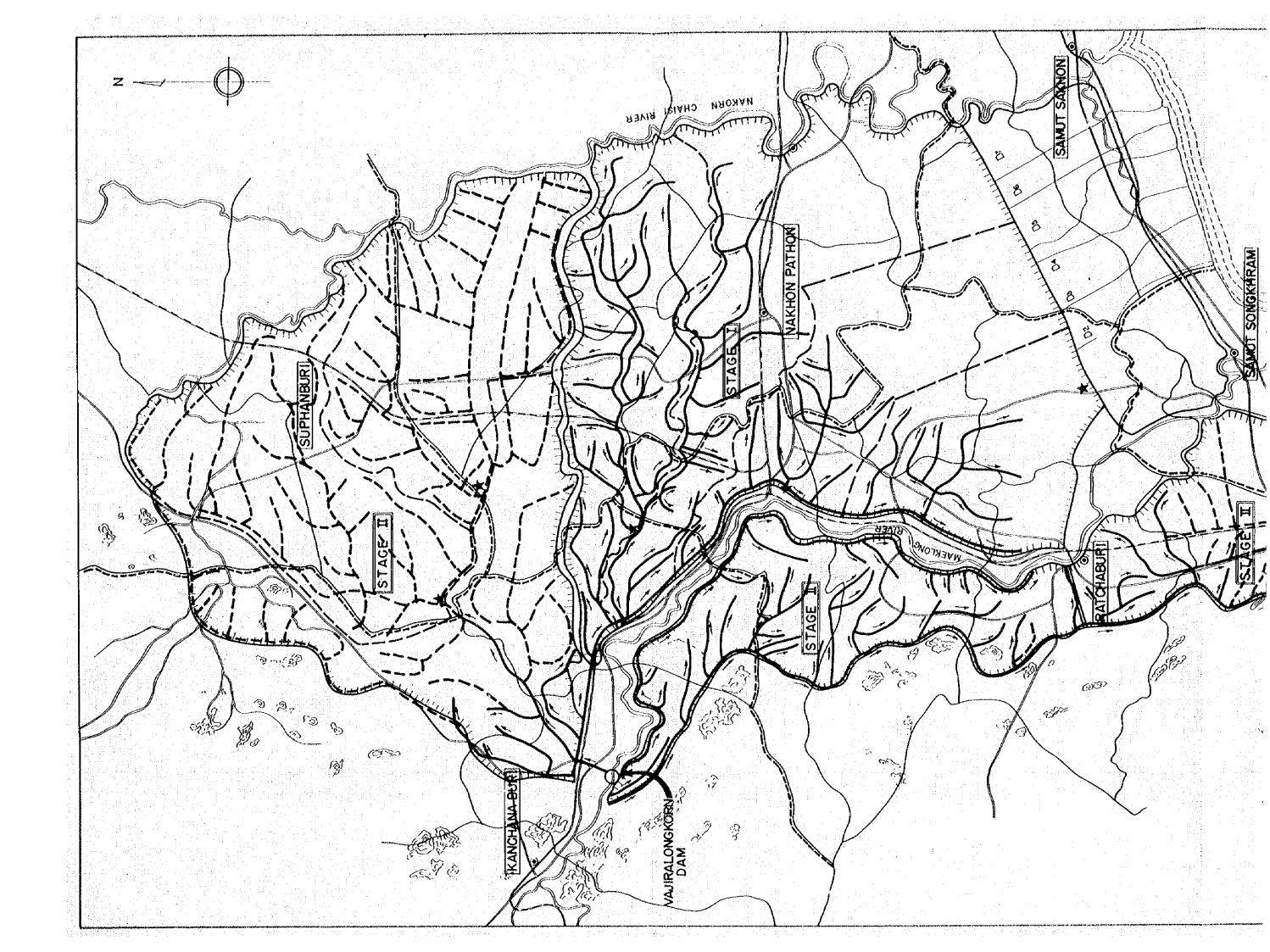


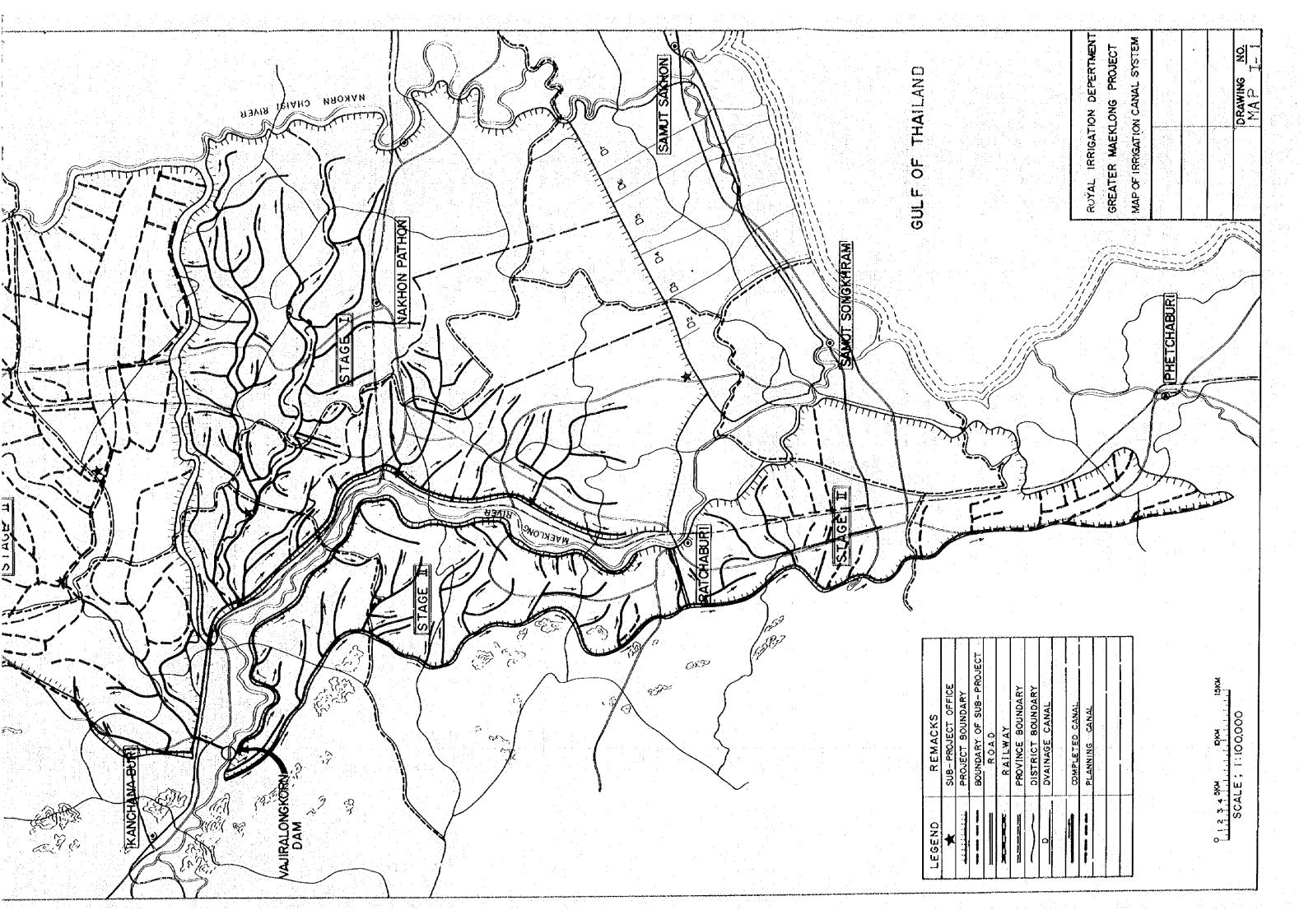


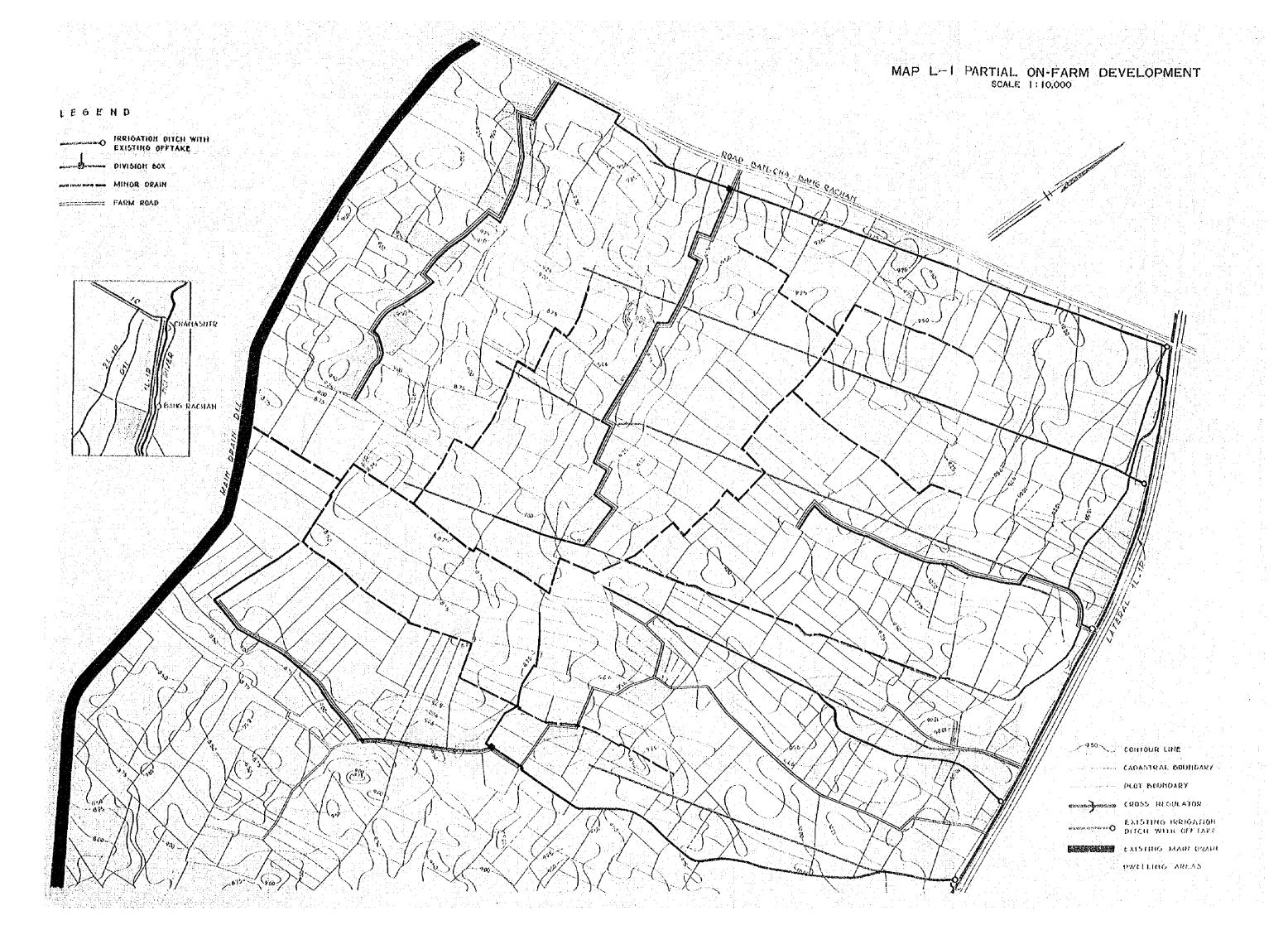


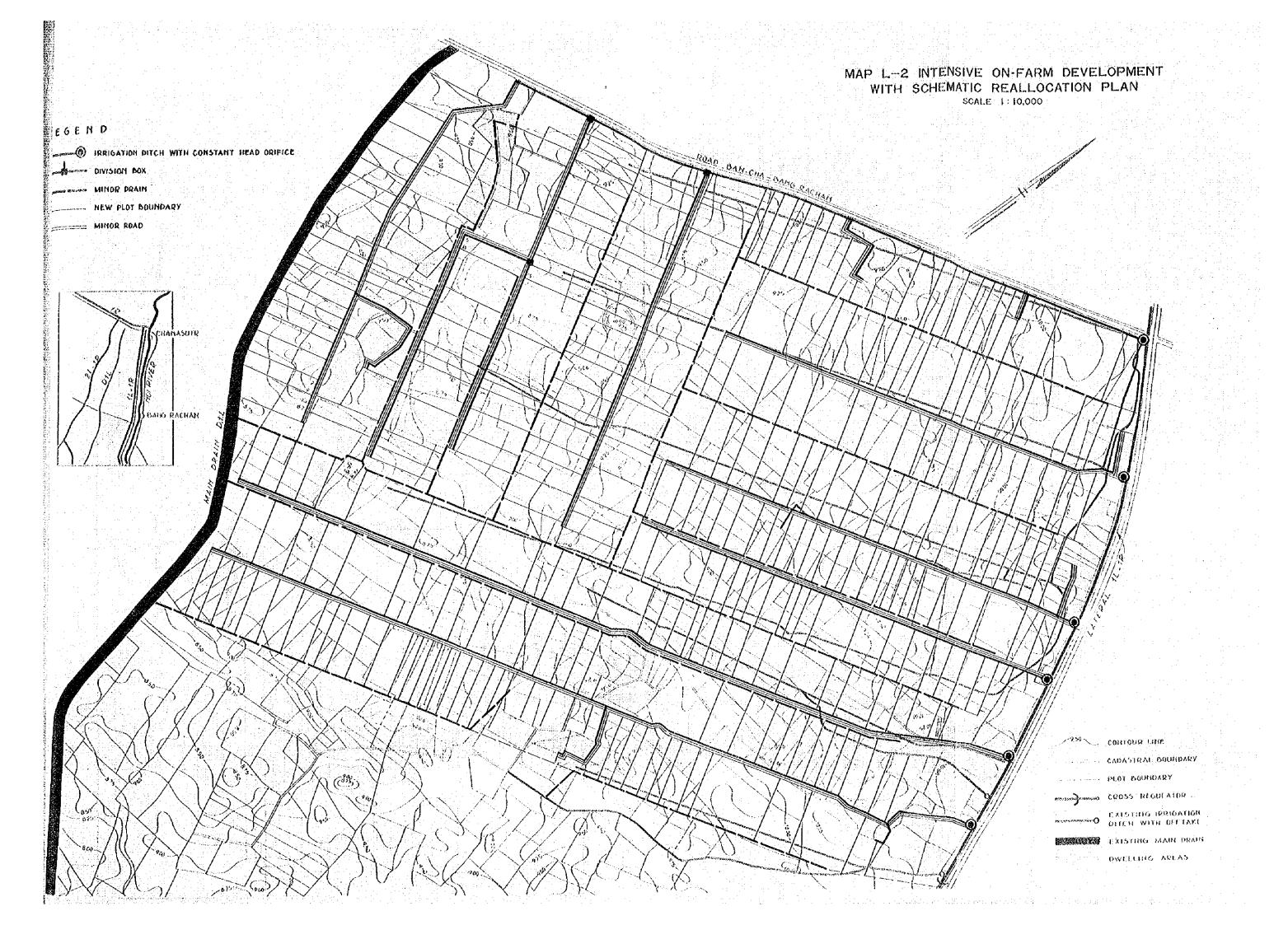


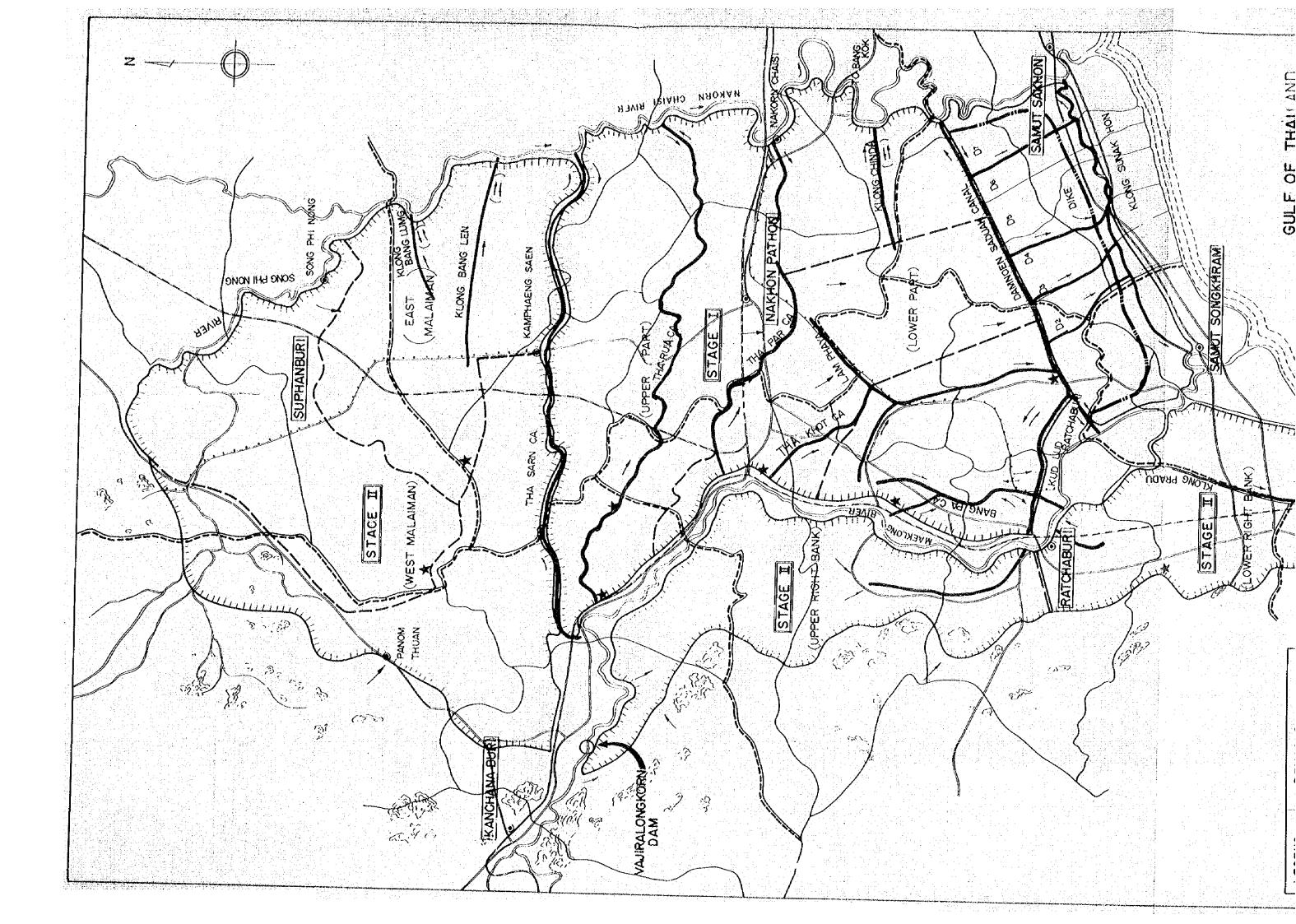


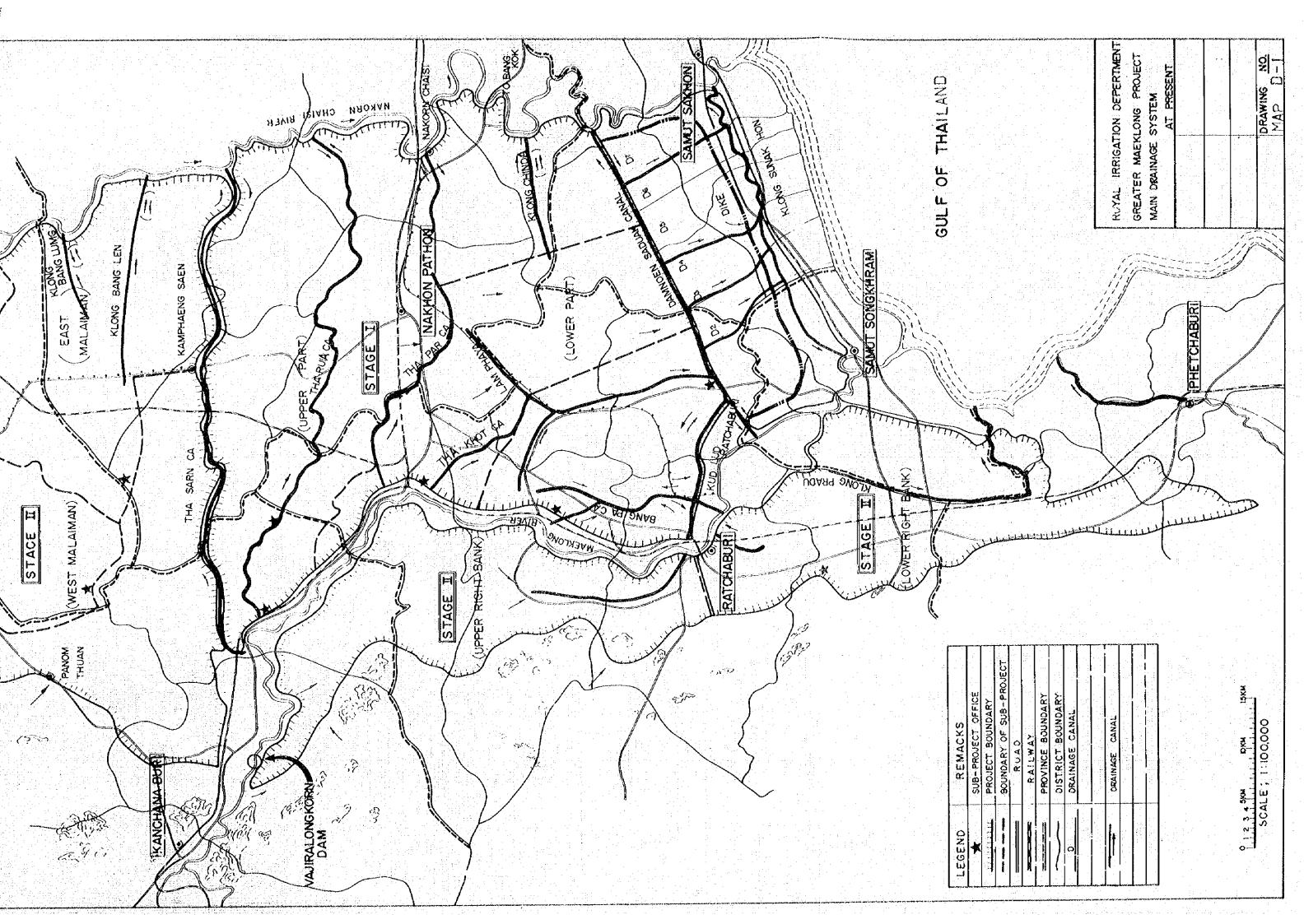


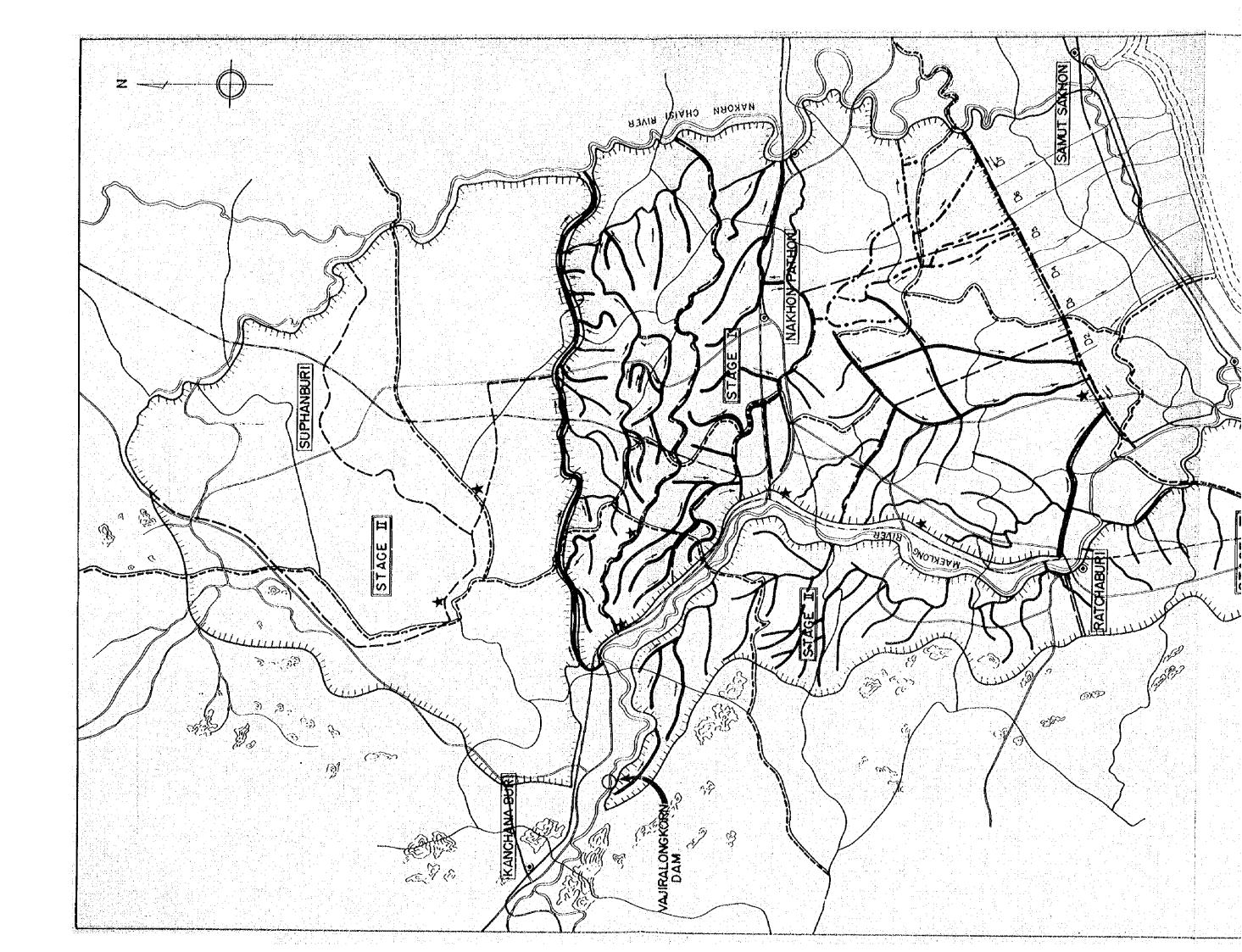


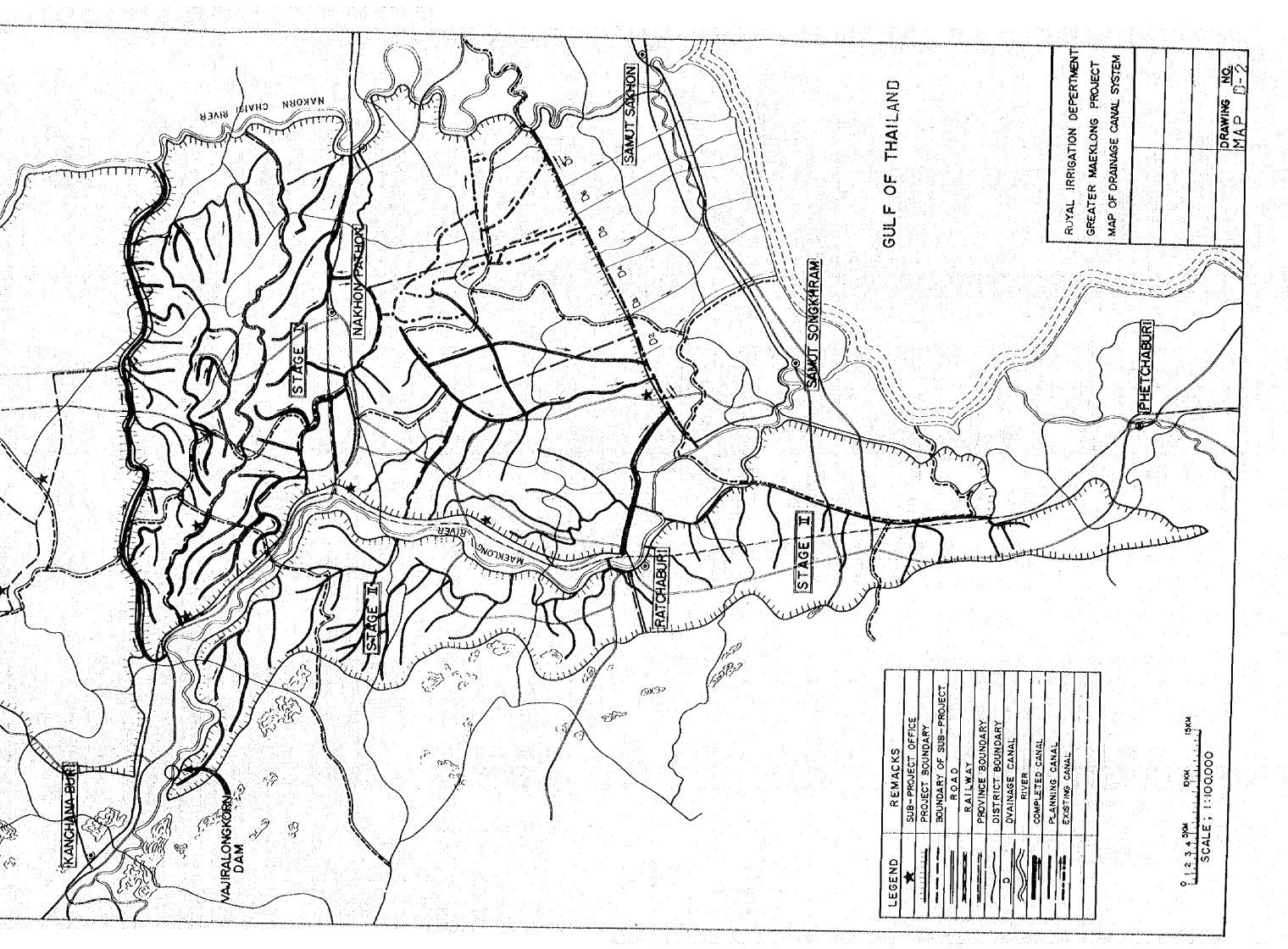












TYPICAL CROSS SECTION OF DAM (BAN CHAO NEN)

