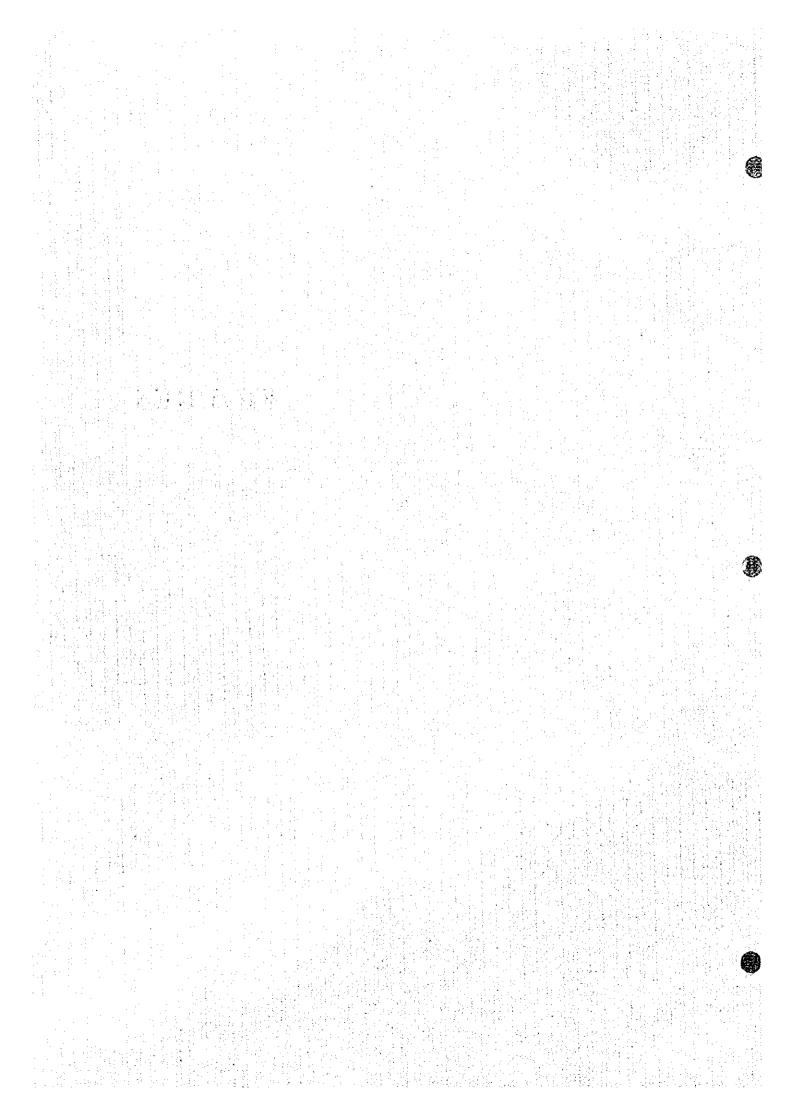
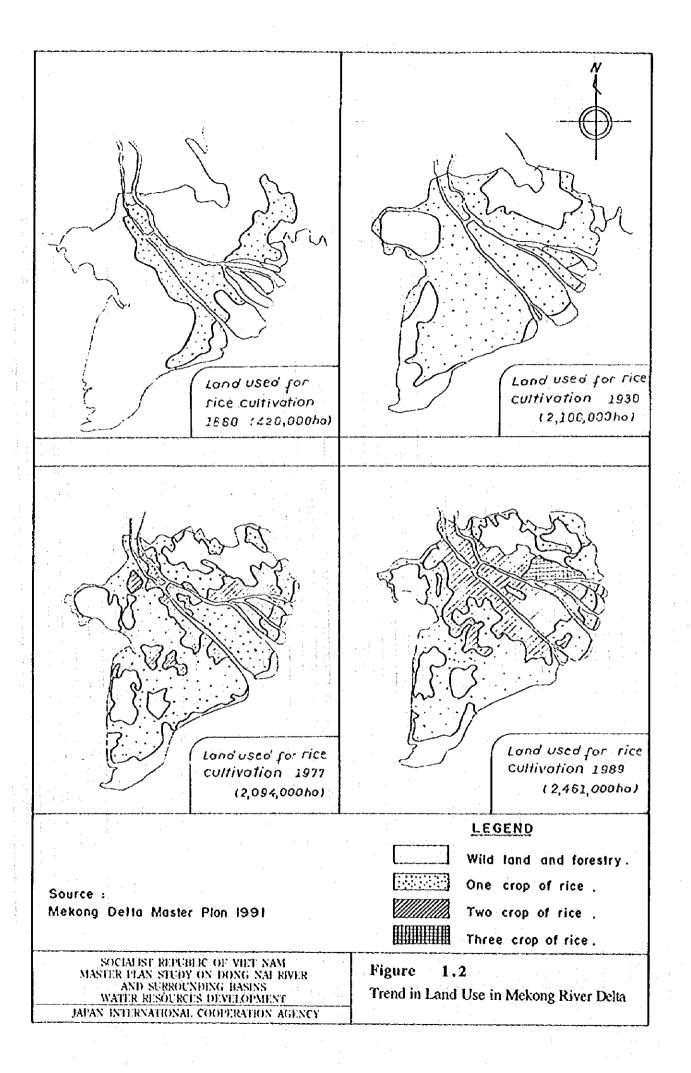
## **FIGURES**

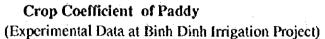


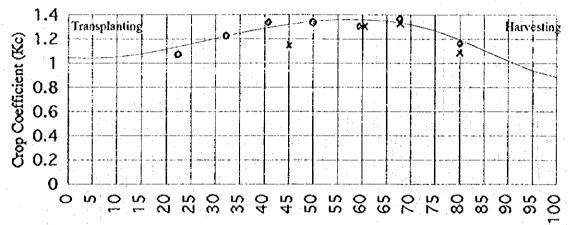
	South-West Lowlands  - Repeated floods, waterloging, salinity intrusion & acidification - Relatively developed irrigation systems - Fertile soils & flat plains and rice bowl. of Vietnam - Big potentials for industrial developmen teaperalyte retained secondar growth sand) - Power shortage and repeated blackouts  Intensification on the key production areas, integrated farming & diversification of cops, especially high-value ones promotion of small scale industry based on local indigenous materials  1) Irrigation Dev.& Drainage Improv. 2) Consolidation of Existing Farm Land 3) Frood Control & Protection 4) Prevention of Salinity Intrusion 5) Intensification of Migh-valued Crops 7) Postharves, Service System 8) Agricultural Marketing Service System 8) Agricultural Marketing Service System 1) Water Supply & Sewerage Improv.	Central Upland Zone  Deforestation, soil erosion and watershed degradation  Low population desity and resettlement projects  Cultivation in alluvial plains and plateaus (by poor ethnic groups)  Upland climate & cash crops  (vegetables & fruits) production  Conservation / Intensification  Reforestation in decuded area and intensification of agro-forestry development program (commercial crops)  1) Upland Pump Irrigation Dev.  2) Small Water Impounding  3) Intensification of Cash Crops (vegetables & fruits) Production  4) Postparabet Service System  5) Backyard Animal Production  6) Reservoir fashery Development  1) Watersbed Conservation	Ecological Zones in Dong Nai River Basin  Hilly & Undulated Zone  (Piedmont & Peneplain Areas)  on, soil erosion and attention desity and on the projects in allury and corrected by creek in allury and designation is fruits) production  on in denuded area and on in denuded area and in program (commercial on of agro-forestry approach (orehard & processing)  on in denuded area and development of the high potential areas by sustainable agro-forestry approach (orehard & processing)  Pump Irrigation Dev.  S. fruits) Production  is fruits or of agro-forestry after fashery Development  (I) Small Water Impounding areas and development of the high potential areas by sustainable agro-forestry approach (orehard & processing)  (I) Small Water Impounding areas and development to farming & Agro-forestry (industial crops) Dev.  (I) Small Water Impounding areas and development to farming & Agro-forestry (industial crops) Dev.  (I) Small Water Impounding areas and development to farming & Agro-forestry (industial crops) Dev.  (I) Naterial Electrification  (I) Rural Electrification  (I) Rural Electrification	South-Eastern Coastal Zone  - Narrow peneplains and shortage of irrigation water - Existence of tidal and inland swamplands & poor access - Environmental conservation (swamplands & poor access - Environmental conservation & poor fisherfolks  Conservation of the coastal zone and intensification on the existing high poermial areas and industry (processing & marketing)  (1) National & Communal Irrigation Dev. (2) Intensification of Crop Production (3) Inland & Brakish Fishery Dev. (4) Fishery Port Complex (incl. Processing Center)  (2) Coastal Rehabilitation and Resource Management	
rust roleik S tasmqols <i>e</i> s (	2) Rural Electrification 2) Agro-Industrial (incl. Processing.) Development 3) Agricultural/Rural Credit System Dev.	2) Rural Electrification 3) Water Supply & Sanitation Improv. 4) Cmmunity Development (incl. Cooperatives) 5) Agro-Industrial Centers Dev.	2) Water Supply & Santation Improv.  3) Reserve the Civelihood Development 4) Community Development (incl. Cooperatives)	2) Livelihood Development 3) Comunity Development (incl. Cooperatives)	
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Figure 1.1 Conceptual Framework for Agriculture and Rural Development by Specific Ecological Zones







Growing Stage (%)

o: Observed at An Nhon station

x: Observed at Tuy Phuoc station

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AND SURROUNDING BASINS
WATER RESOURCES DEVELOPMENT

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Figure 2.1

Crop Coefficient of Paddy

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Figure 2.2
Cropping Calendar and Water Requirements of Paddies in Phan Rang Plain

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Figure 2.3 Cropping Calendar and Water Requirements of Paddies in Phan Ri and Phan Thiet Plains

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Figure 2.4 Cropping Calendar and Water Requirements of Paddies in Lower La Nga Plain

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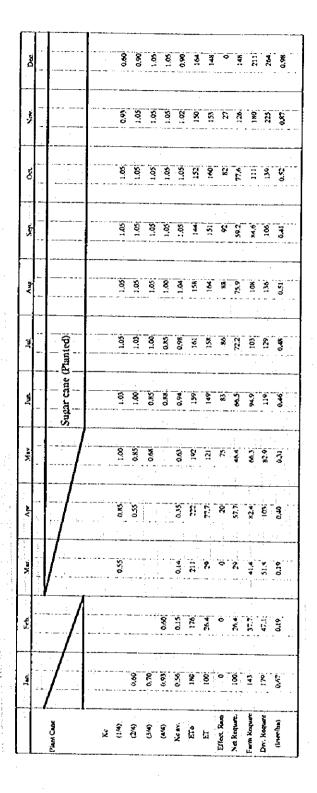
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Figure 2.5
Cropping Calendar and Water Requirements of Winter-Spring Upland Crop and Cotton in East Coast



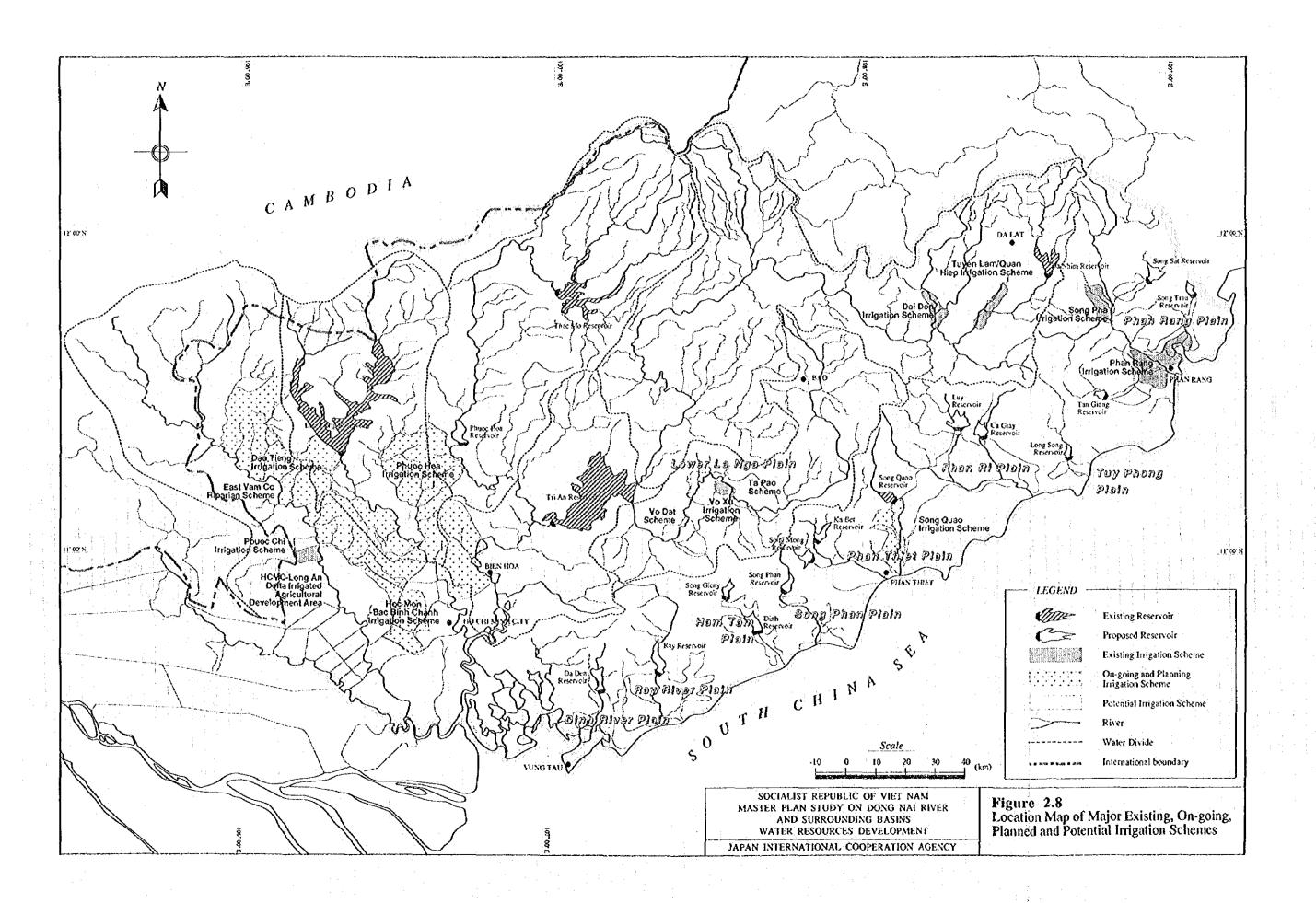
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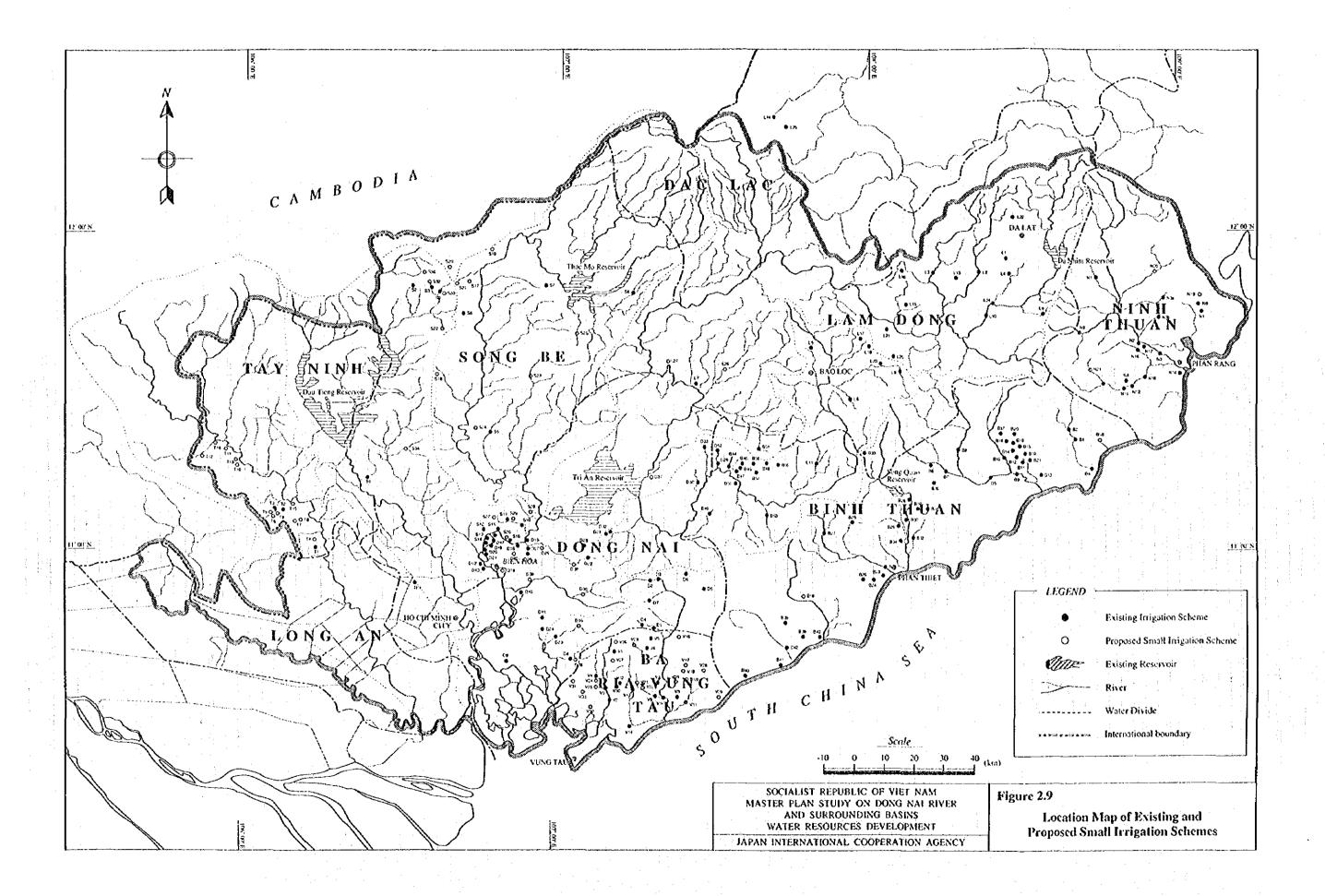
Figure 2.6 Cropping Calendar and Water Requirements of Sugarcane in East Coast

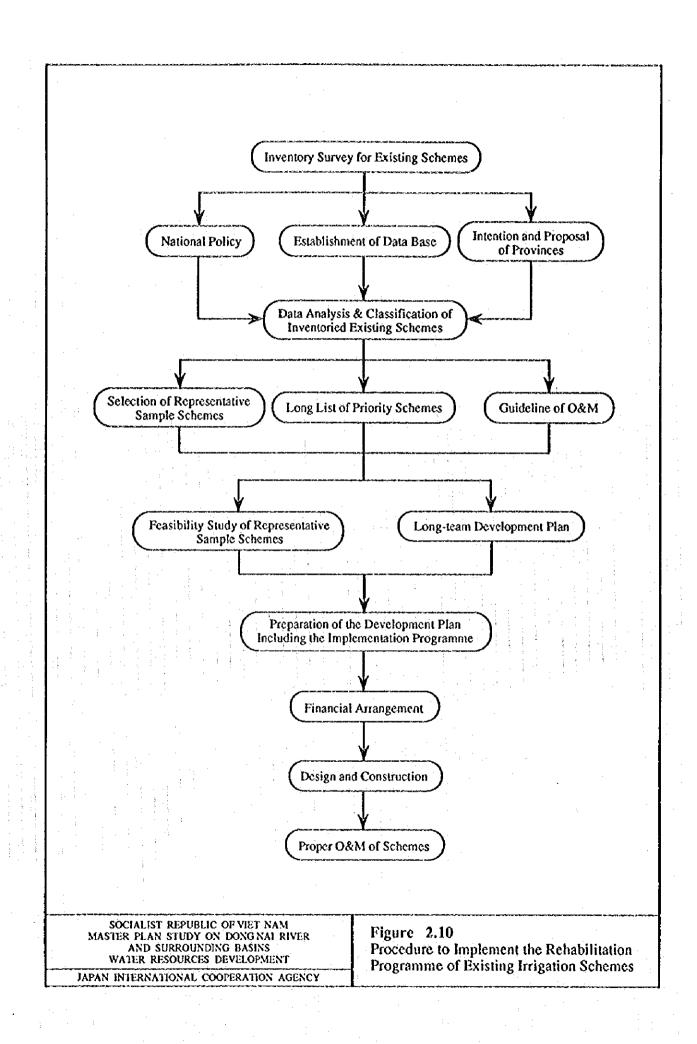
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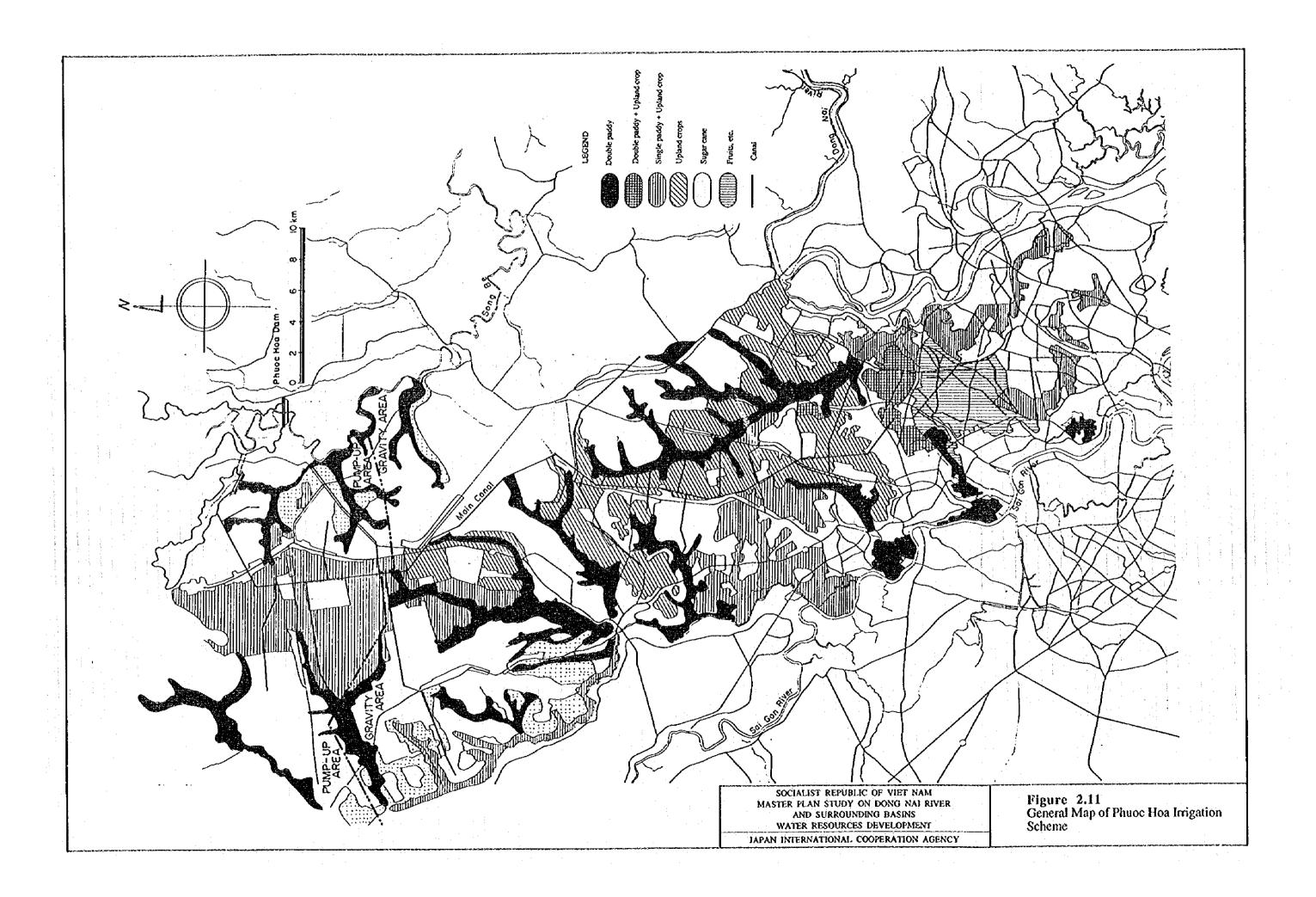
Figure 2.7
Cropping Calendar and Water Requirements of Winter-Spring Upland Crop, Cotton and Sugarcane in Lower La Nga Plain

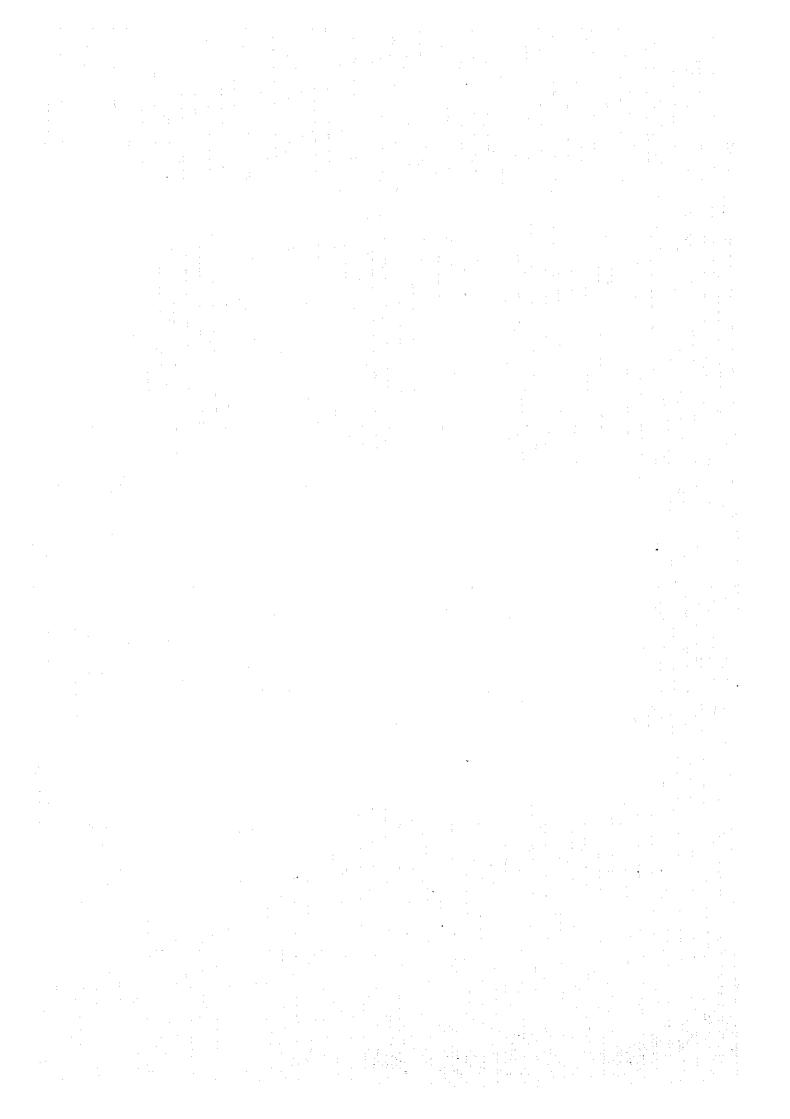


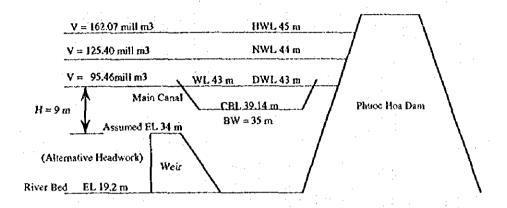












## Water Demand

- 1. Domestic Water Supply including industrial use: 4.0 m3/sec (including loss)
- 2. Mandate release to Song Be river: 8.2 m3/sec
- 3. Irrigation Water for 45,680 ha

Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec. FWR (l/s/ha) 0.32 0.47 0.17 0.29 0.50 0.06 0.06 0.12 0.09 0.04 0.17 0.23 DWR (l/s/ha) 0.53 0.78 0.28 0.48 0.83 0.10 0.10 0.20 0.15 0.07 0.28 0.38

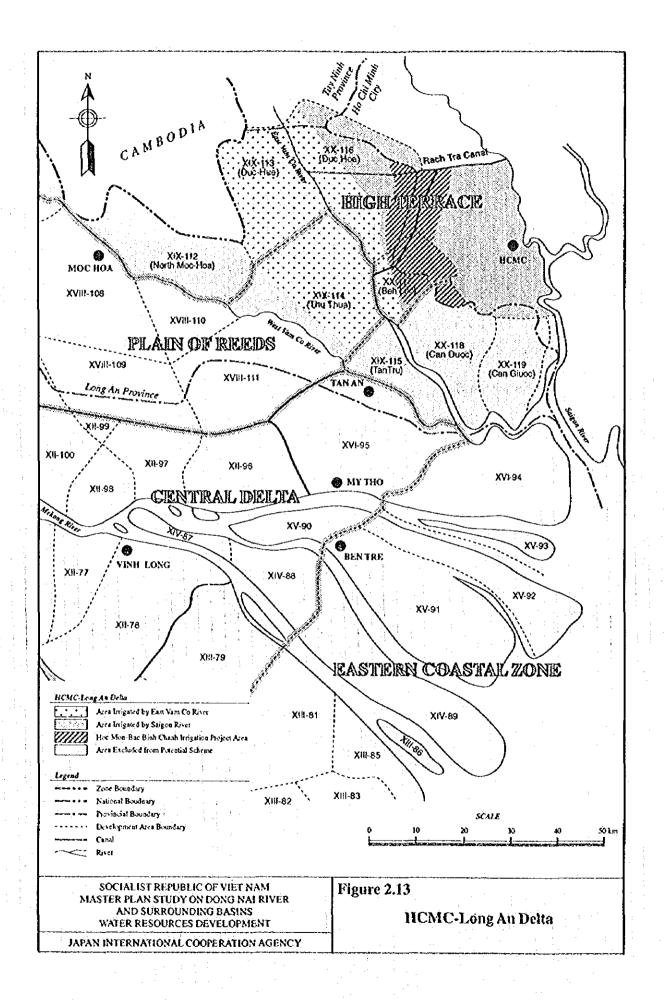
FWR: Field water requirement DWR: Diversion water requirement

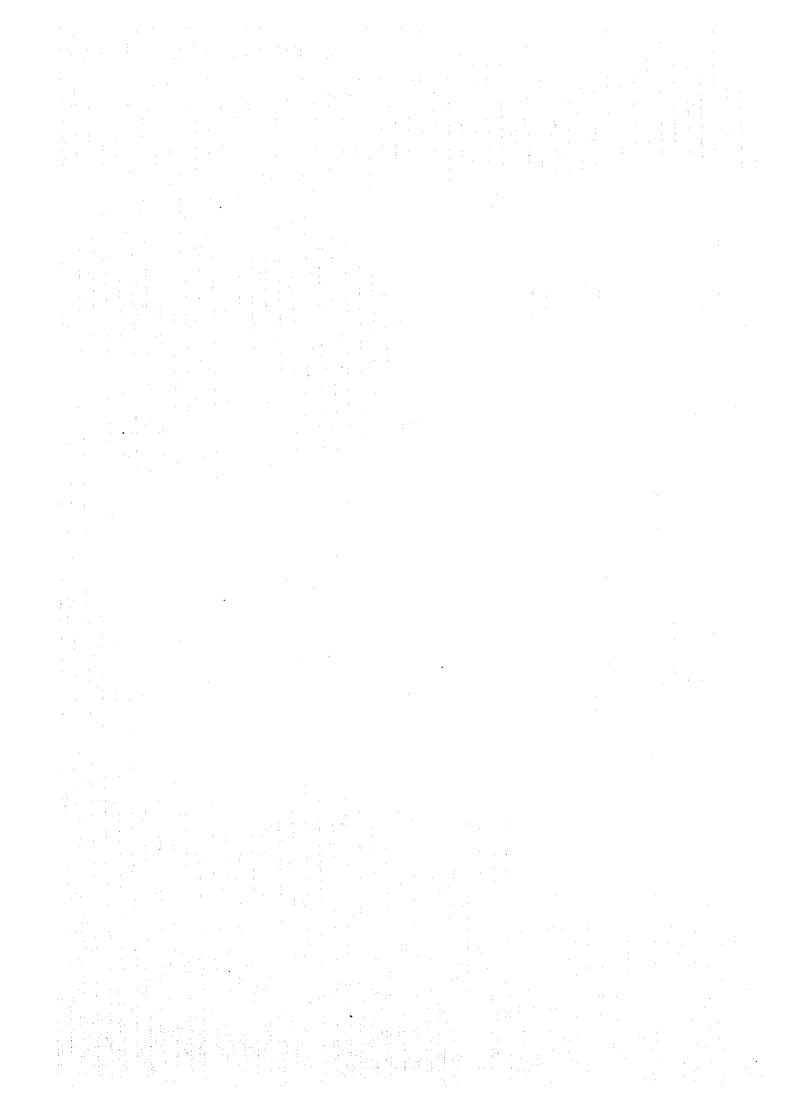
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WATER RESOURCES DEVELOPMENT

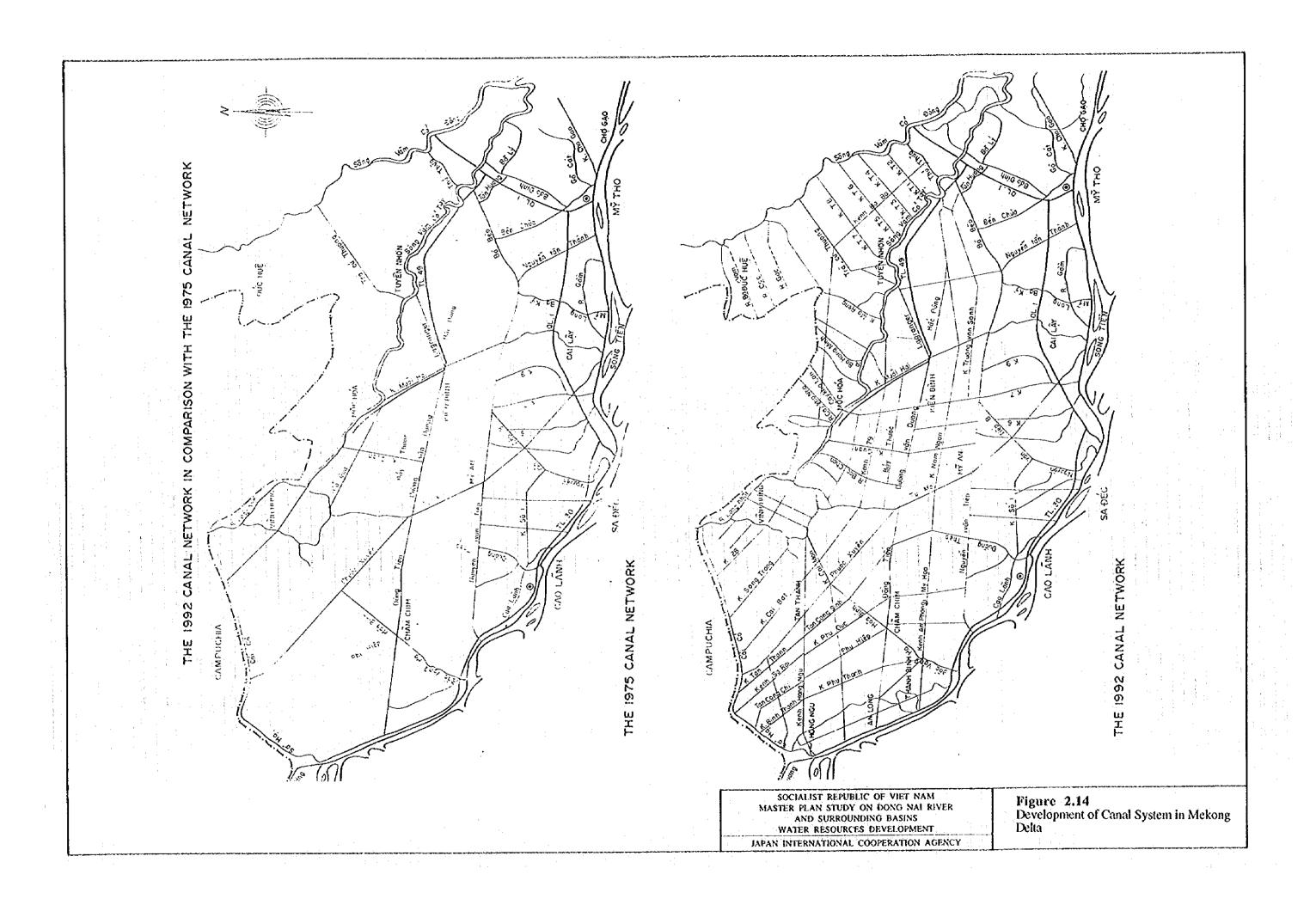
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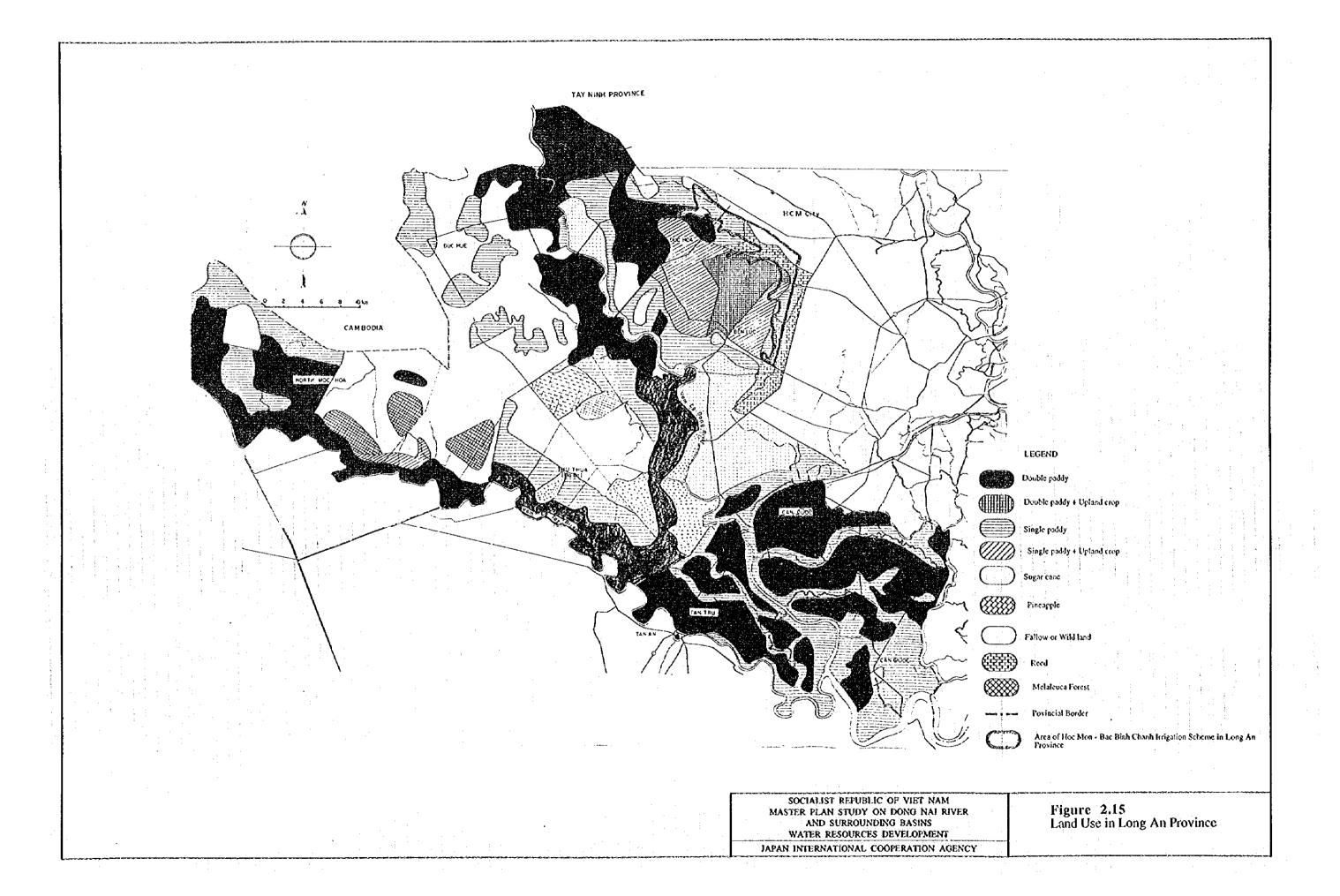
Figure 2.12

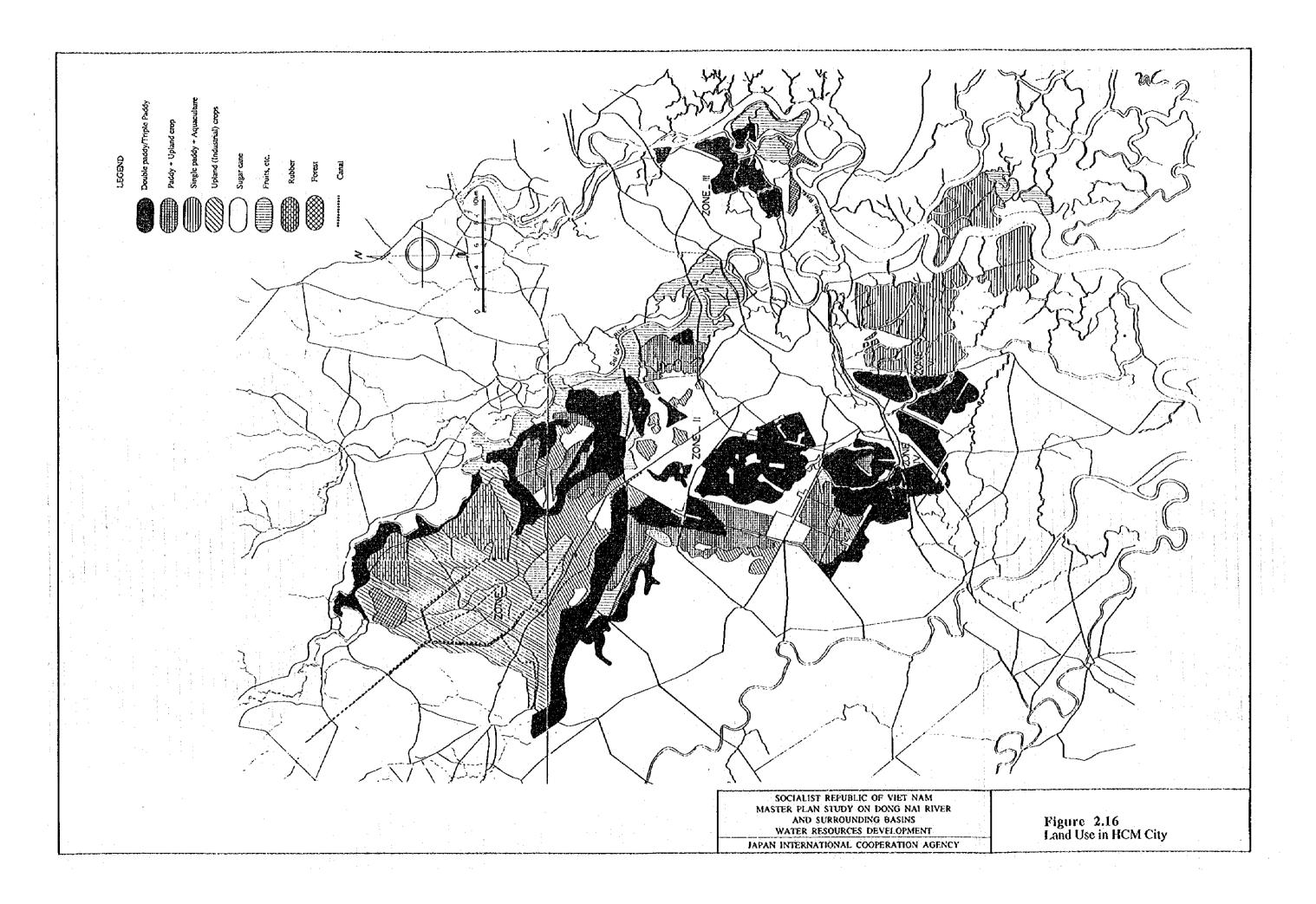
Basic Data of Phuoc Hoa Irrigation Scheme

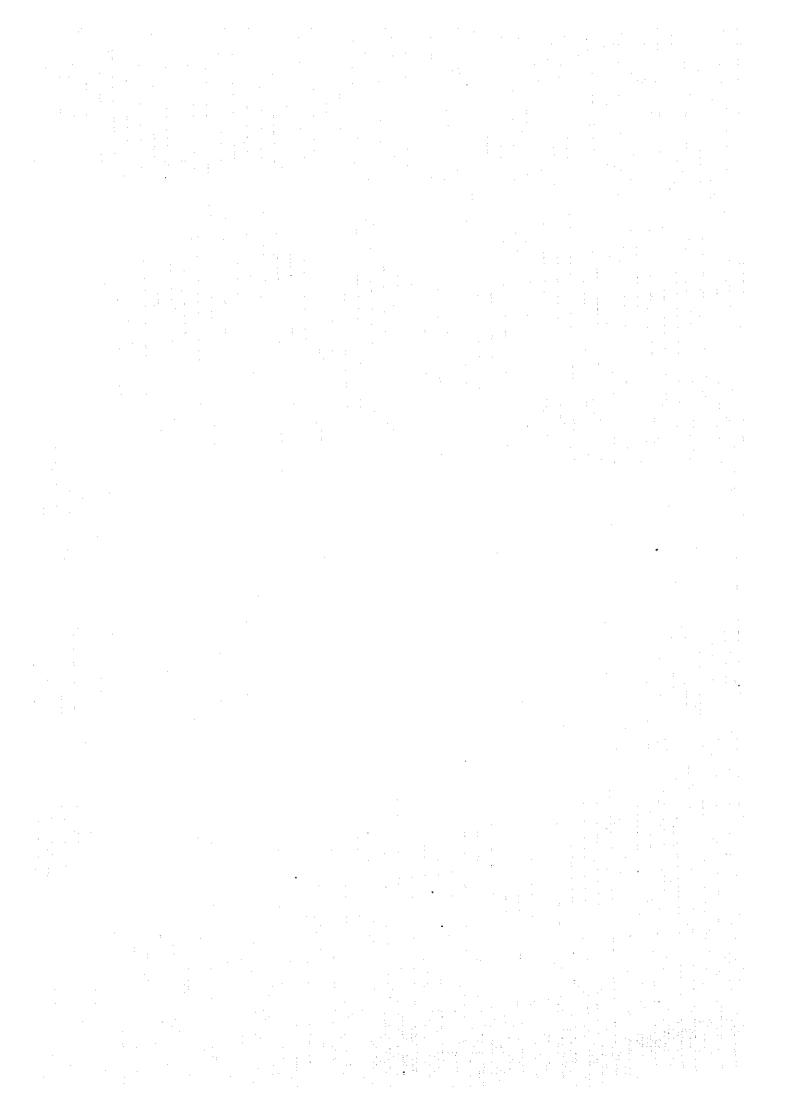






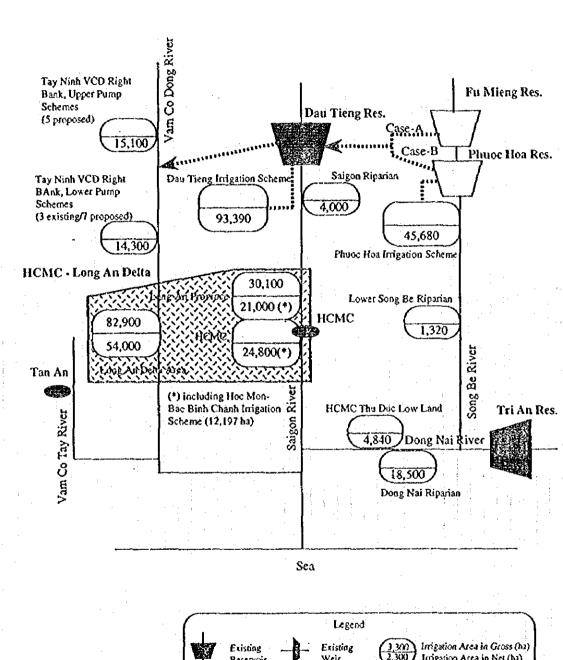


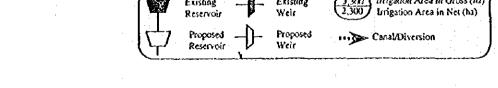






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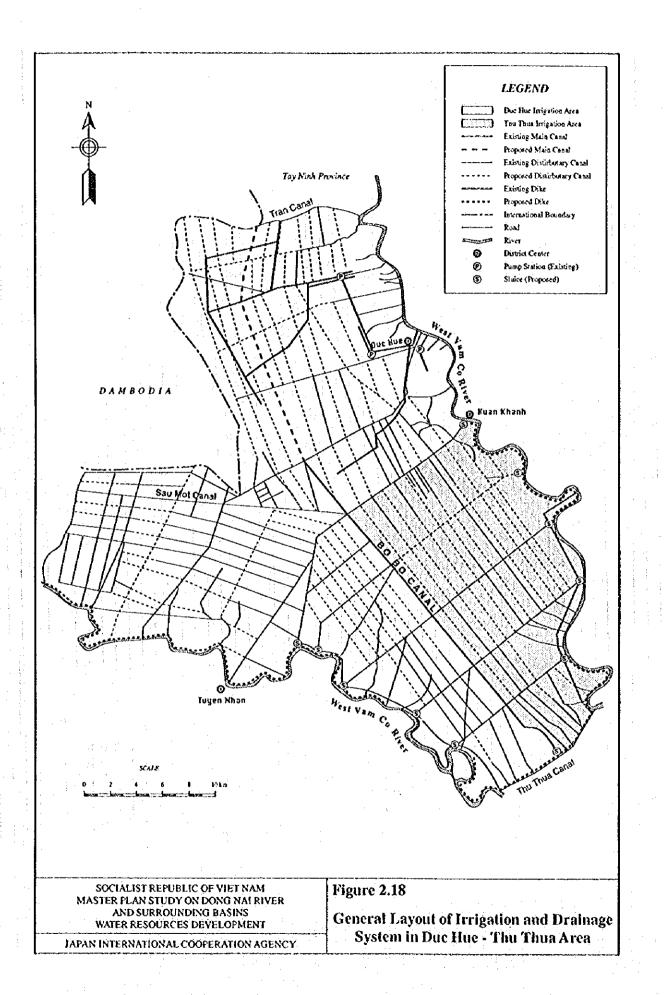


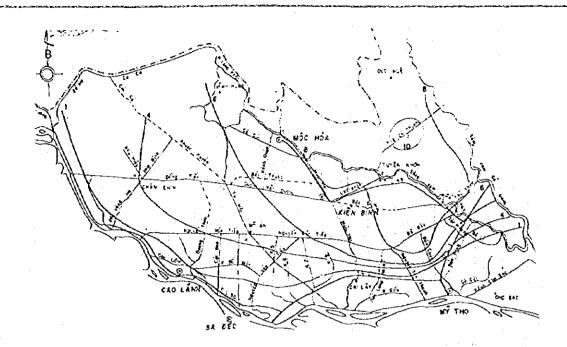


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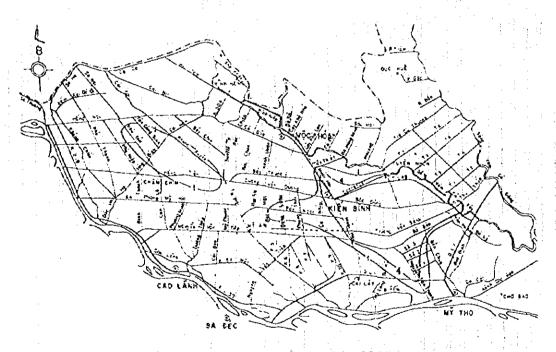
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Figure 2.17
Irrigation System Diagram in HCMC - Long
An Delta and Lower Dong Nai River and
Surrounding Basins





Isolines of Months of pH<5 in 1980



Isolines of Months of pH<5 in 1987

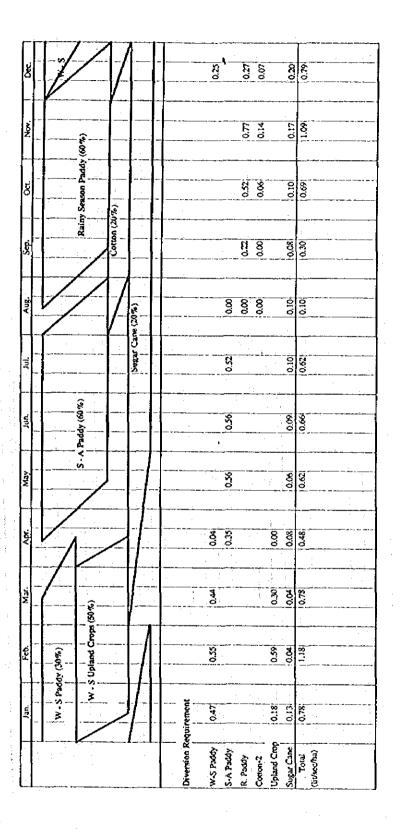
**Source: Ministry of Water Resources** 

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SOCIALIST REPUBLIC OF VIET NAM MASTER PLAN STUDY ON DONG NAI RIVER AND SURROUNDING BASINS WATER RESOURCES DEVELOPMENT

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Figure 2.19
Isolines of Months of pH Value Smaller than 5 in 1980 and 1987



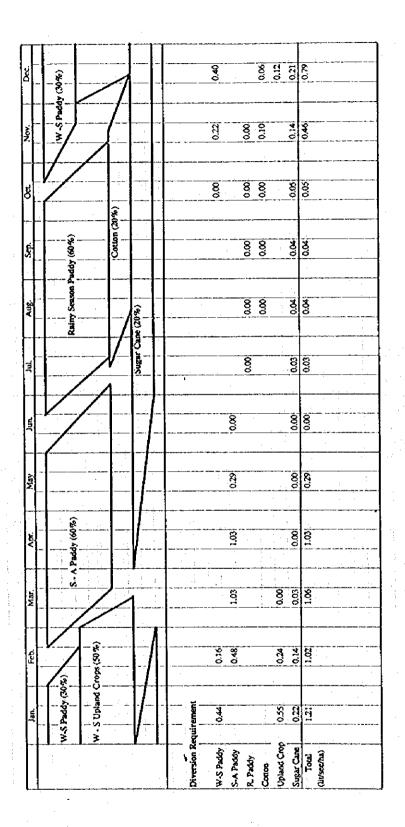
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Figure 2,20
Diversified Cropping Patterns and Water
Requirement in Phan Ri and Phan Thiet
Plains

Sugar Cane (11%) ខ្លួ W - S Paddy (47%) Upland Crop

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MASTER PLAN STUDY ON DONG NAI RIVER
AND SURROUNDING BASINS
WATER RESOURCES DEVELOPMENT
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Figure 2.21
Diversified Cropping Patterns and Water
Requirement for Ta Pao Irrigation Schene
in Lower La Nga Plain



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Figure 2.22
Diversified Cropping Patterns and Water
Requirement for Vo Dat Irrigation Schene
in Lower La Nga Plain

0.03 ŝ 9.00 0.00 5 Sugar Cane (25%) 000 8 8 3 8 0.00 Figure 2.23 Diversified Cropping Patterns and Water Requirement in Phan Rang Plain 0.03 1.15 0.17 W - S Upland Crops (35%) 2 6 8 (lit/secha) W.S.Paddy S.A.Paddy

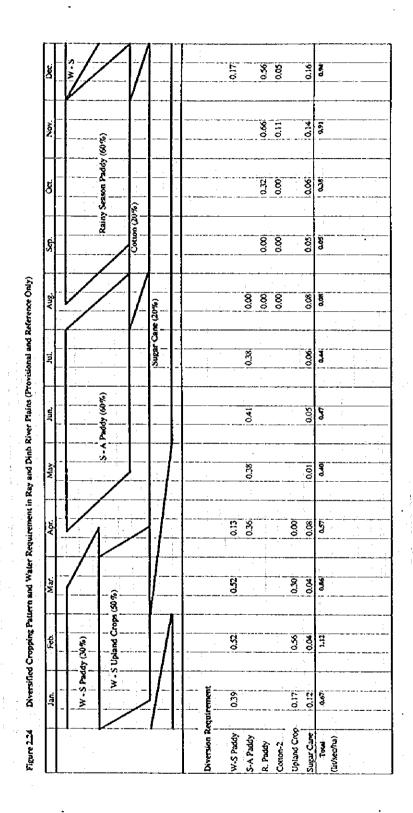
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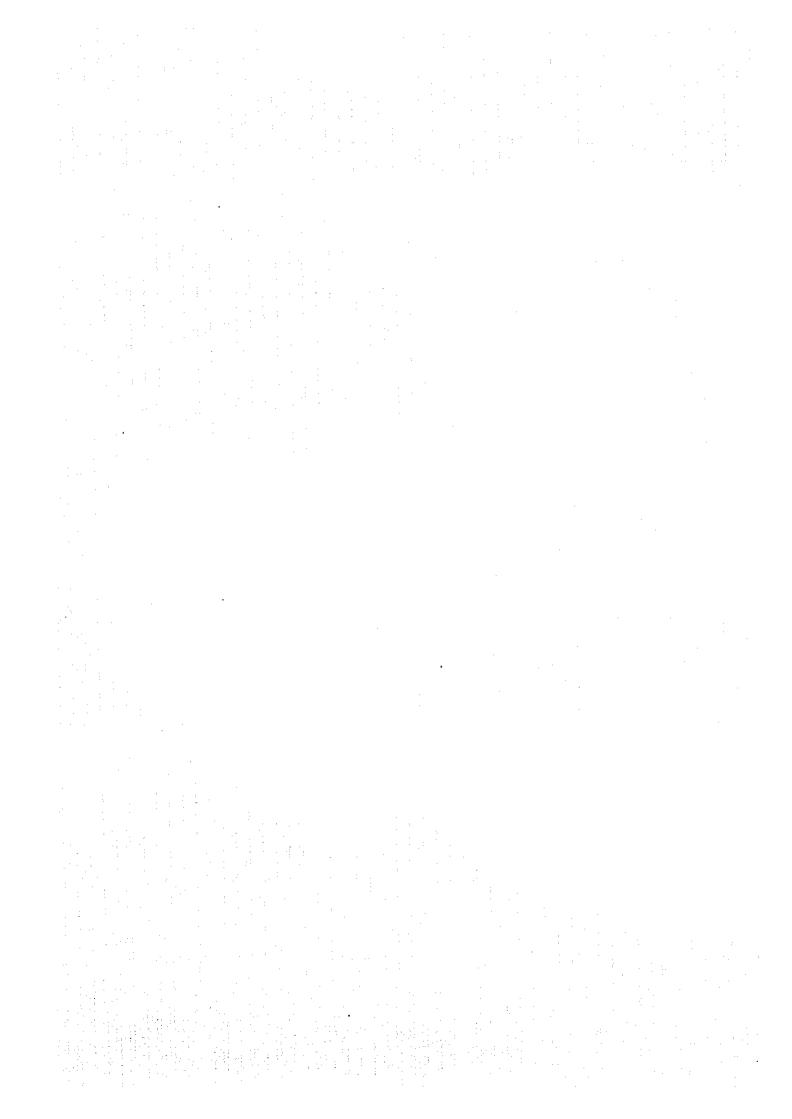
Figure 2.23
Diversified Cropping Pattern and Water
Requirement in Phan Rang Plain

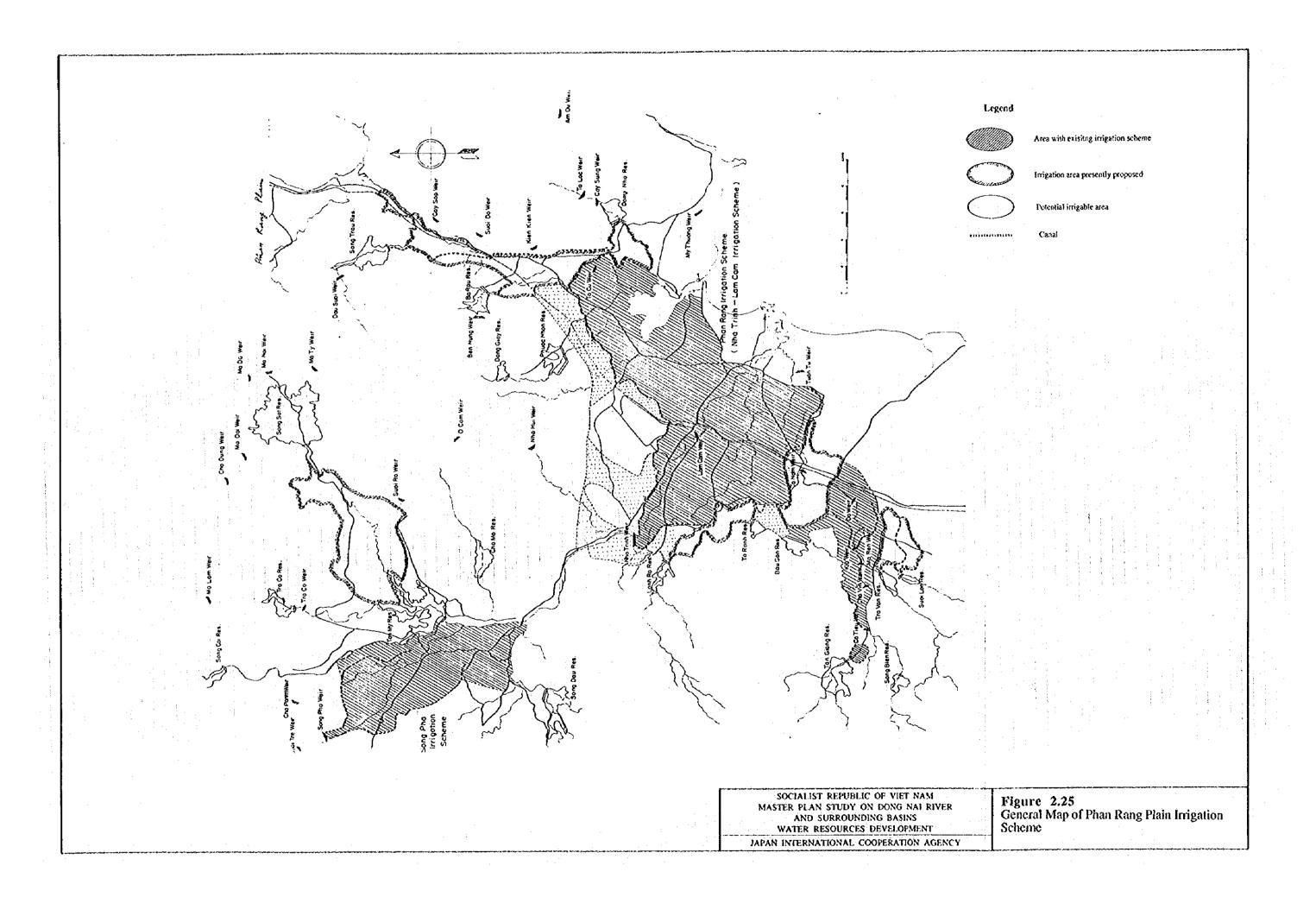


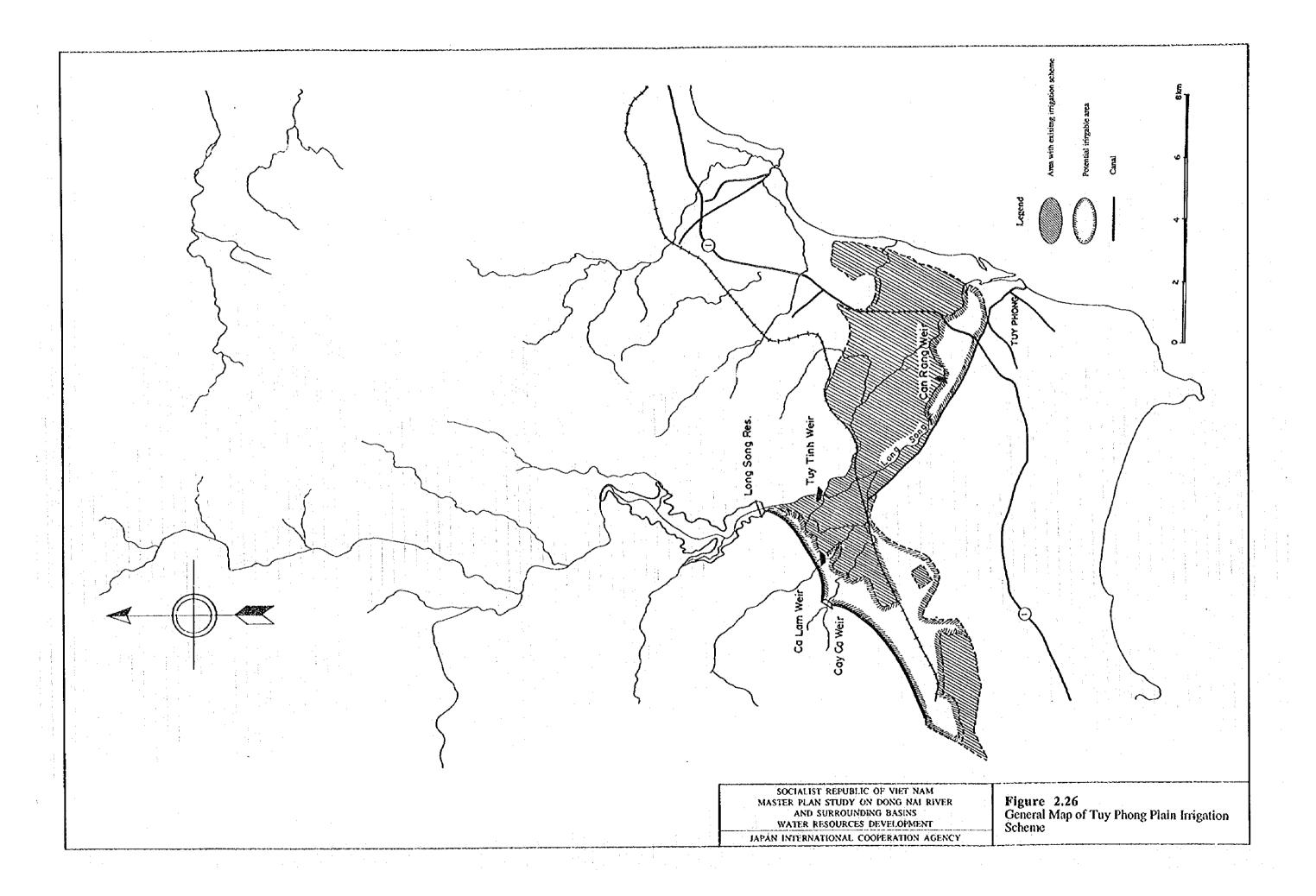
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AND SURROUNDING BASINS
WATER RESOURCES DEVELOPMENT
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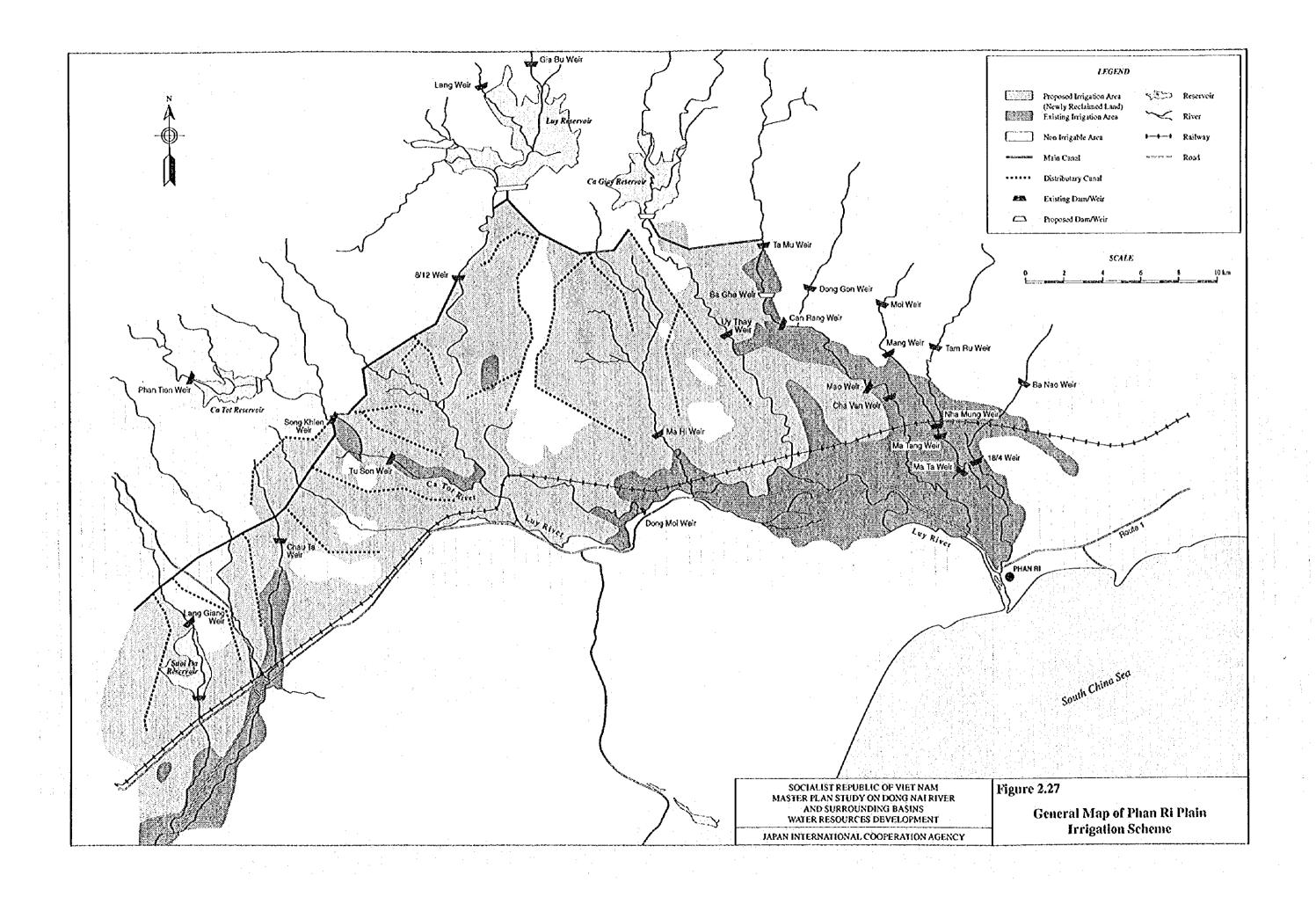
Figure 2.24
Diversified Cropping Pattern and Water
Requirement in Ray and Dinh River Plains

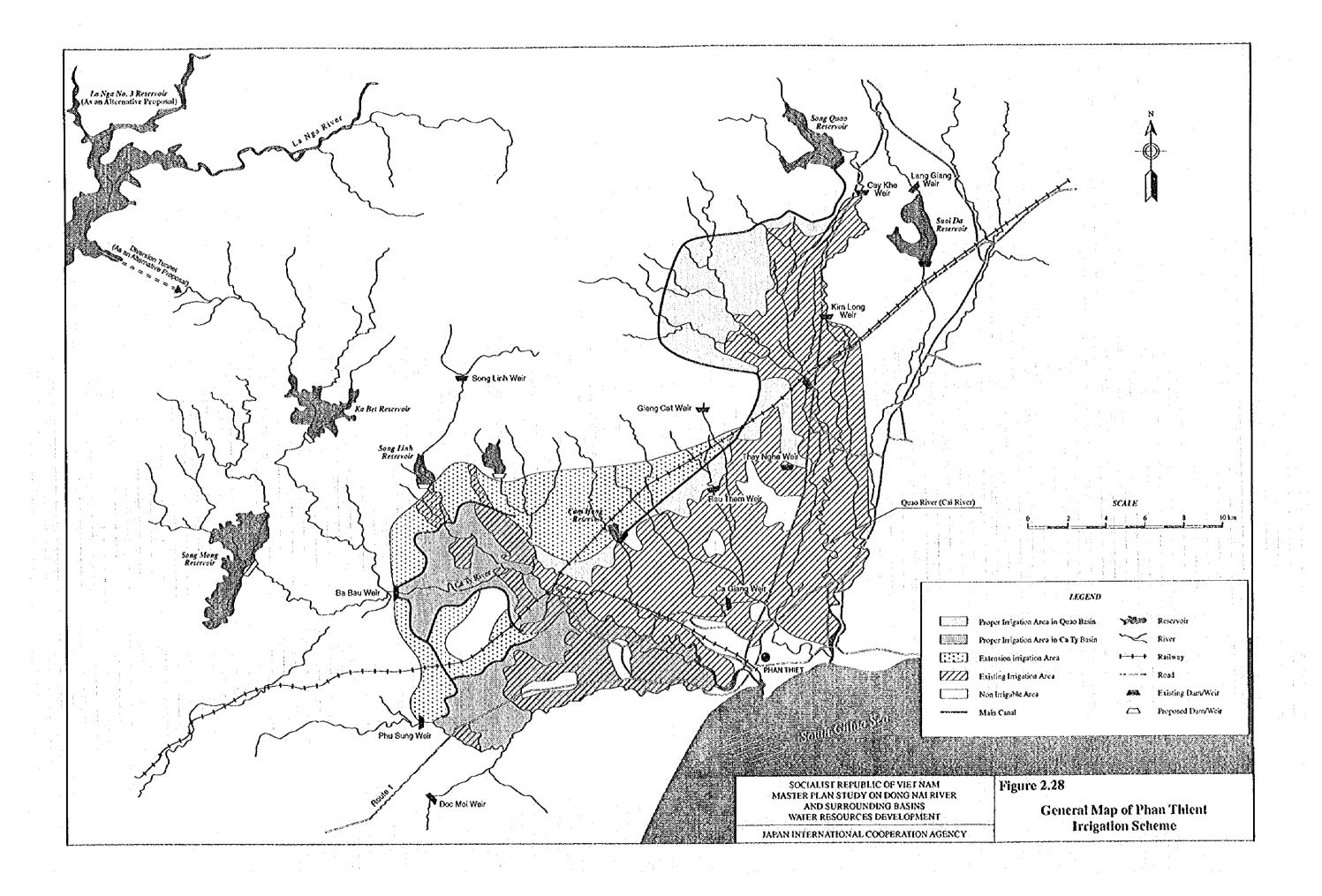
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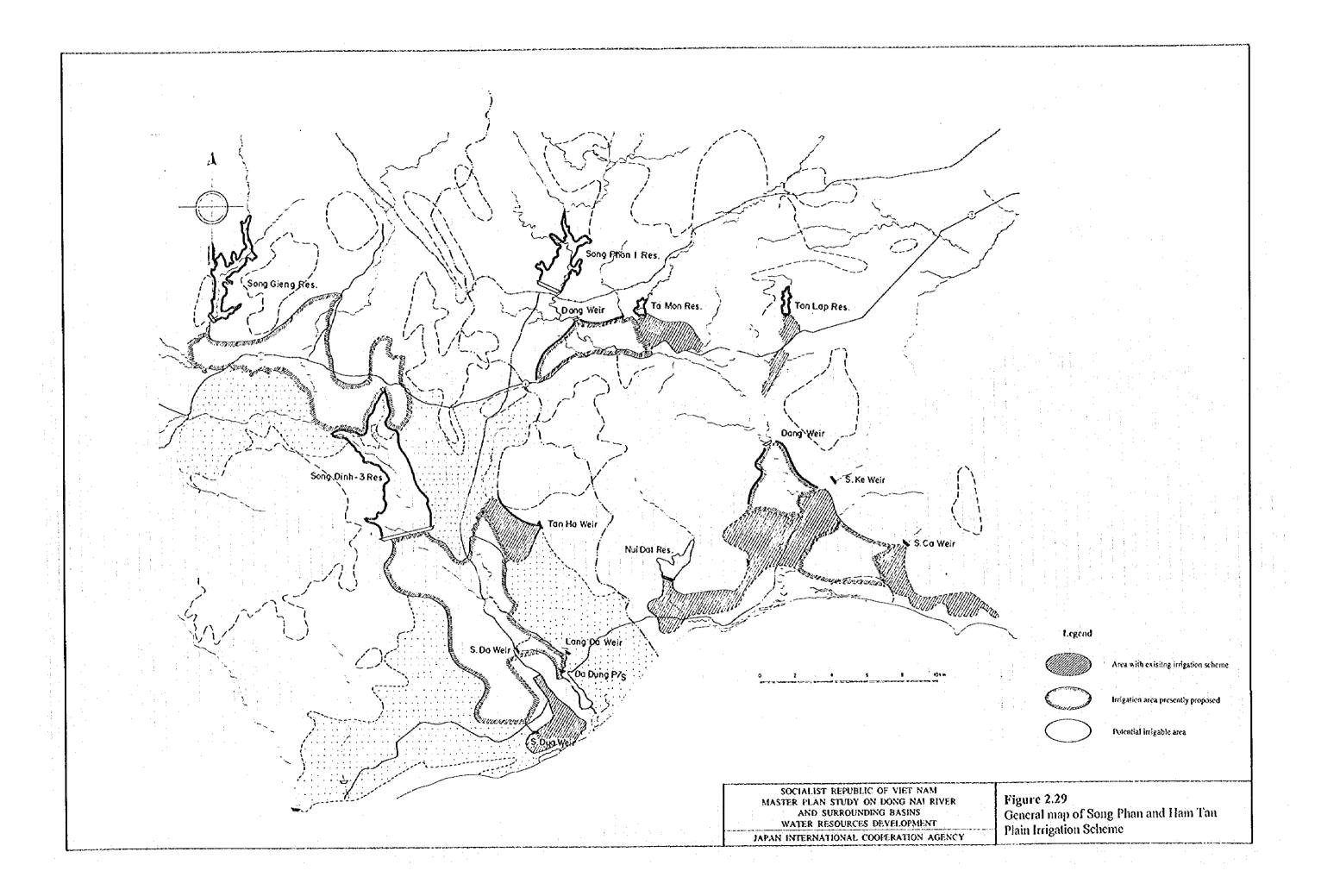


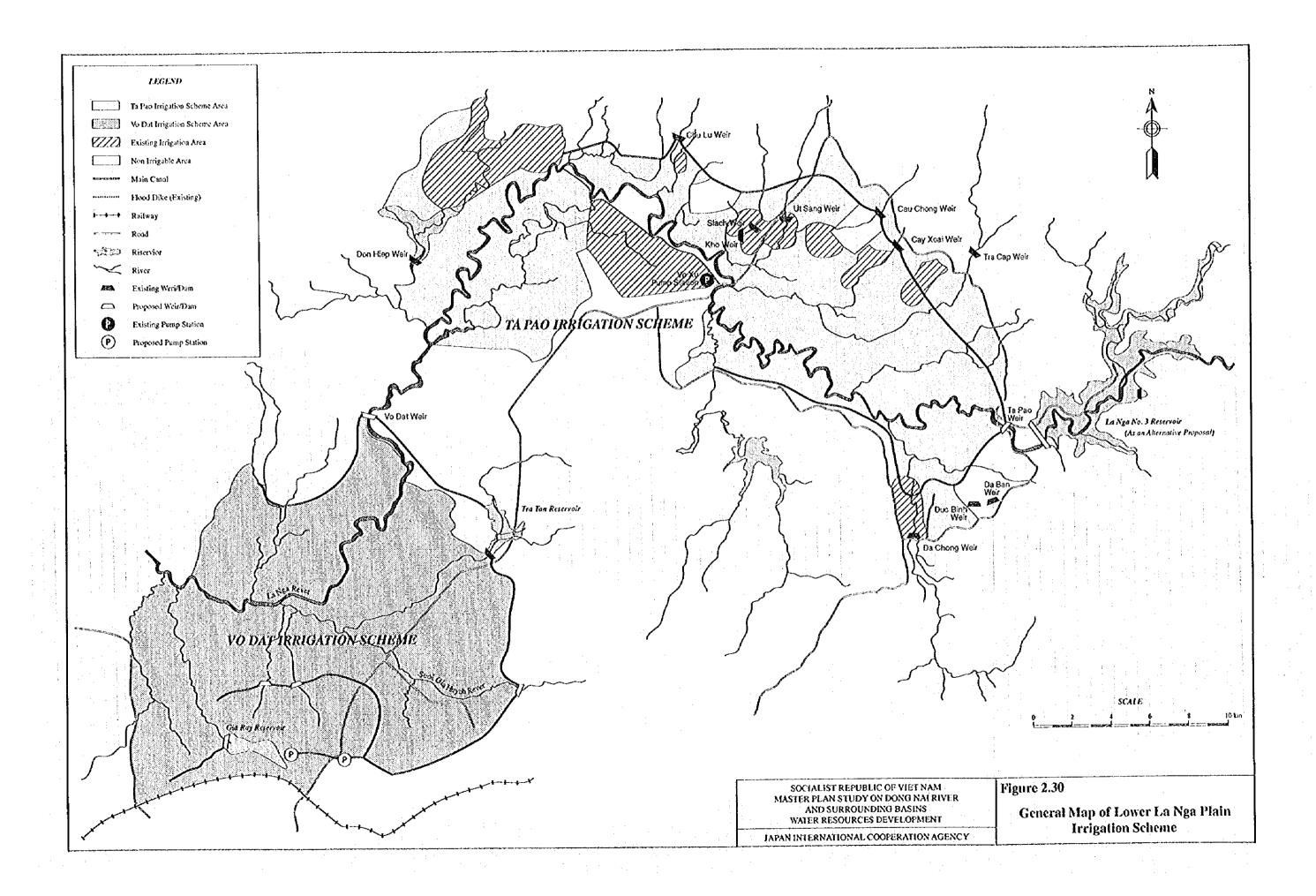


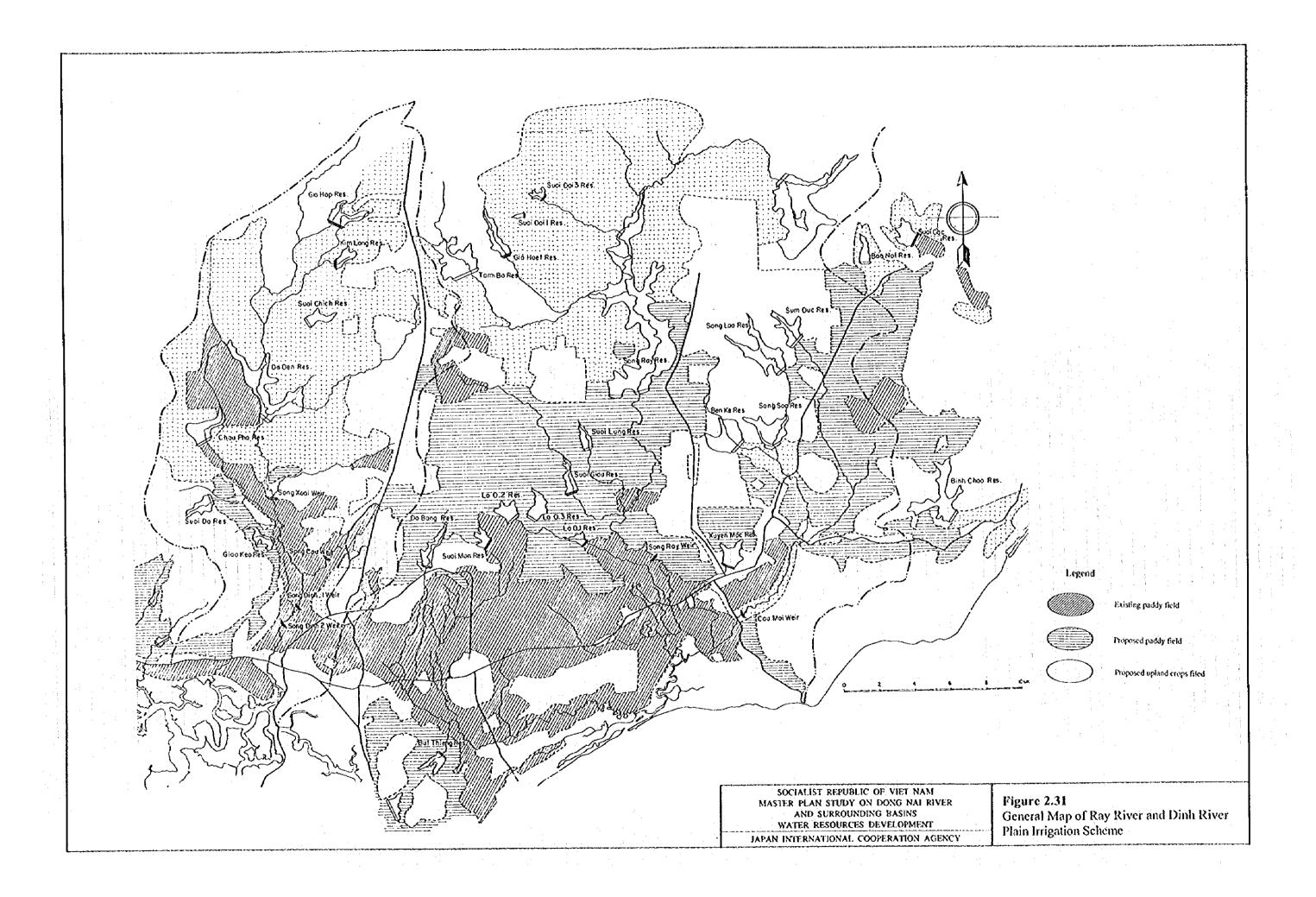












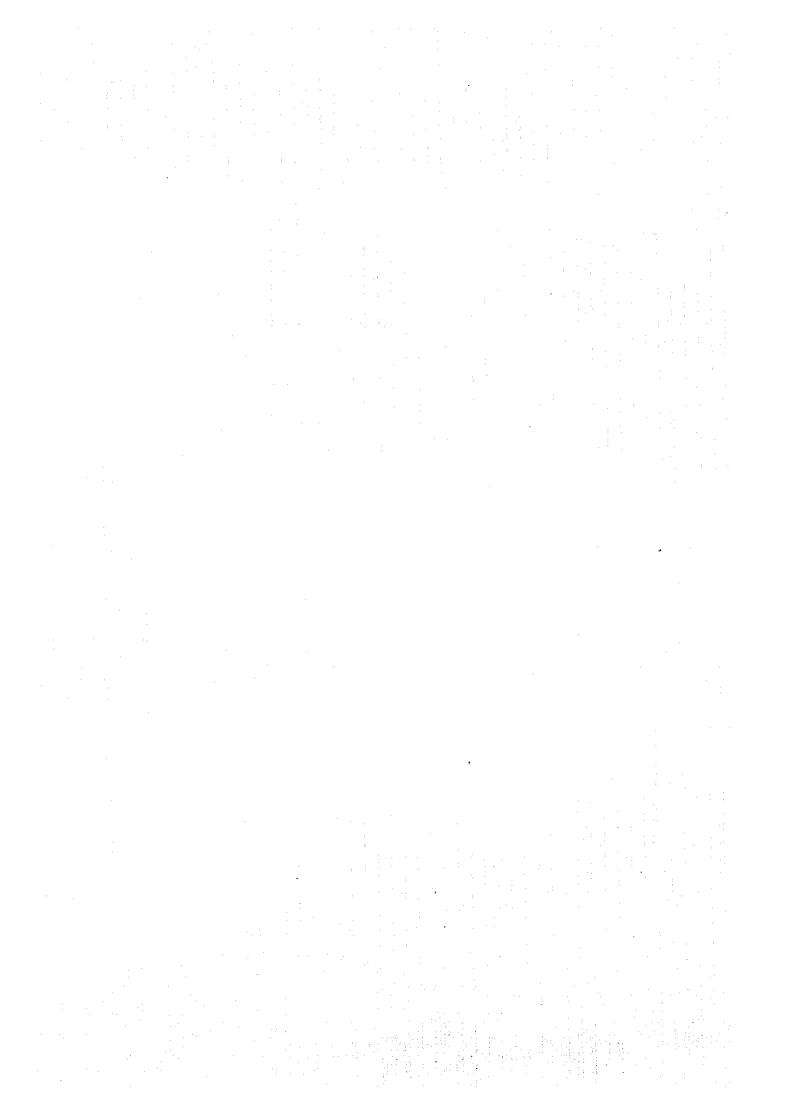
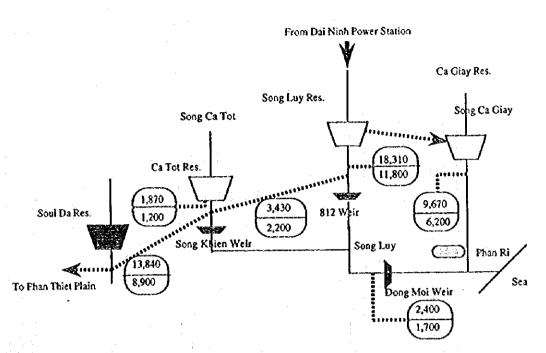


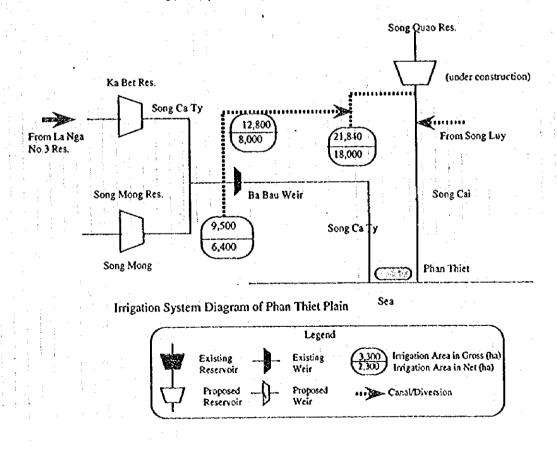


Figure 2.32 Irrigation System Diagram of Phan Rang Plain From Da Nim Power\_Station Song Cal Res. (CA =660 km2) Tra Co Res. Song Pha Weir 7,000 Song Sat Res. 4,710 4,700 Tan My Res. Song Pha Irrigation Scheme 1,600 Dong Giang Res. Cho Mo Res. Song Dau Res. Phuoc Nhon Res. P/S P/S 2,300 1,200 Lanh Ra Res. 2,400 1,000 Song Trau Res. Nha Trin Weir 1,000 Ban Son Res. Ba Bau Res. 900 ≯ To Cam Ranh Lam Cang Weir 2,600 3,150 2,300 2,300 17,800 12,800 Tan Gieng Res. Phan Rang Irrigation Scheme 3,200 2,600 Sogn Rien Re Phan Rang Song Cai Sea Legend Irrigation Area in Gross (ha) Existing Existing Irrigation Area in Net (ha) Reservoir Weir Proposed Weir Proposed Canal/Diversion SOCIALIST REPUBLIC OF VIET NAM Figure 2.32 MASTER PLAN STUDY ON DONG NAI RIVER AND SURROUNDING BASINS Irrigation System Diagram of Phan Rang

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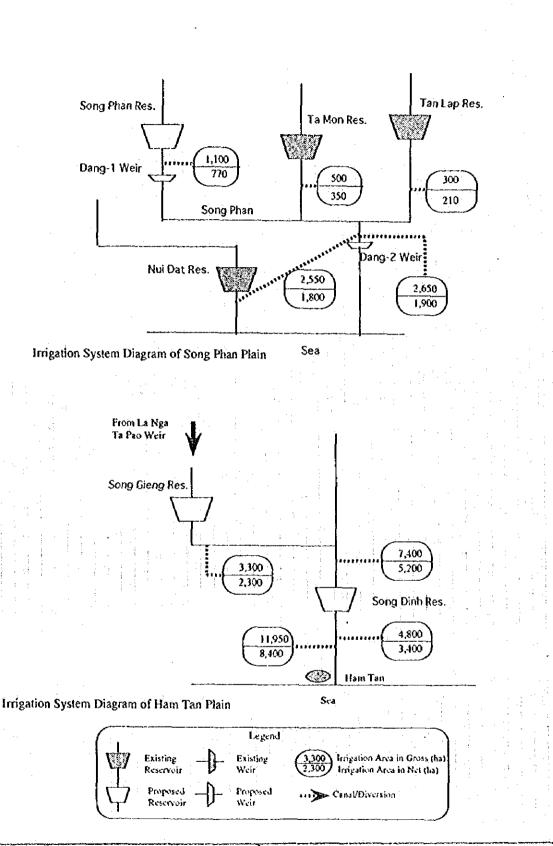


Irrigation System Diagram of Phan Ri Plain



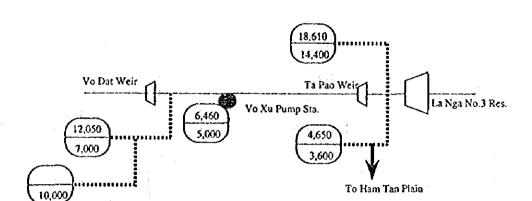
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Figure 2.33
Irrigation System Diagrams of Phan Ri and Phan Thiet Plains

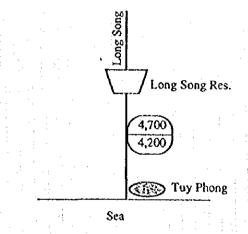


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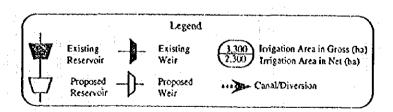
Figure 2.34
Irrigation System Diagrams of Song Phan and Ham Tan Plains



Irrigation System Diagram of Lower La Nga Plain



Irrigation System Diagram of Tuy Phong Plain

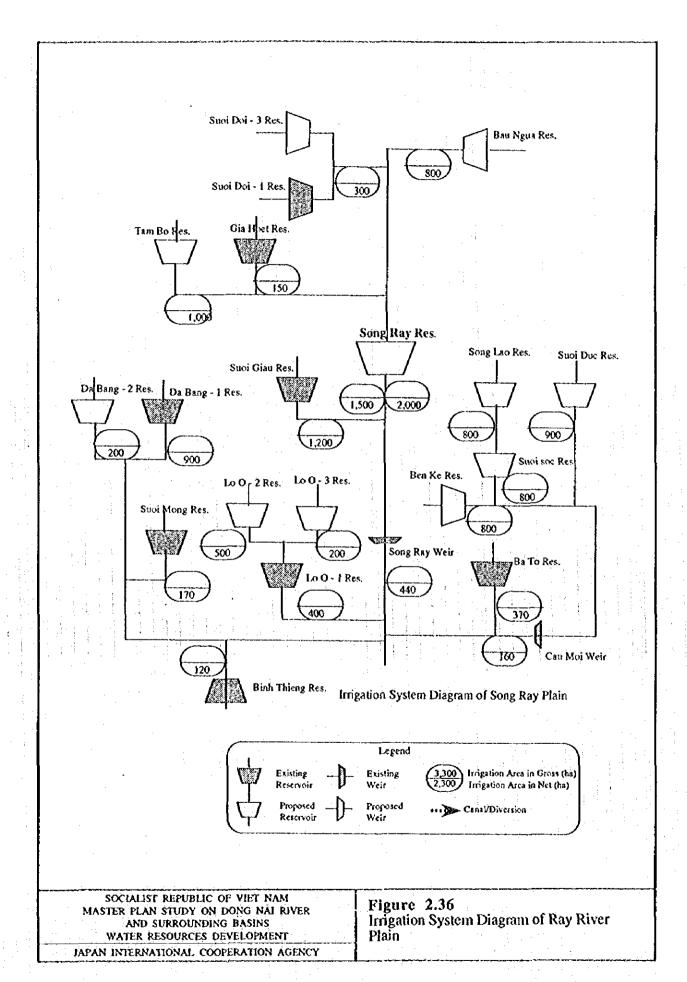


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Figure 2.35
Irrigation System Diagram of Lower La
Nga and Tuy Phong Plains

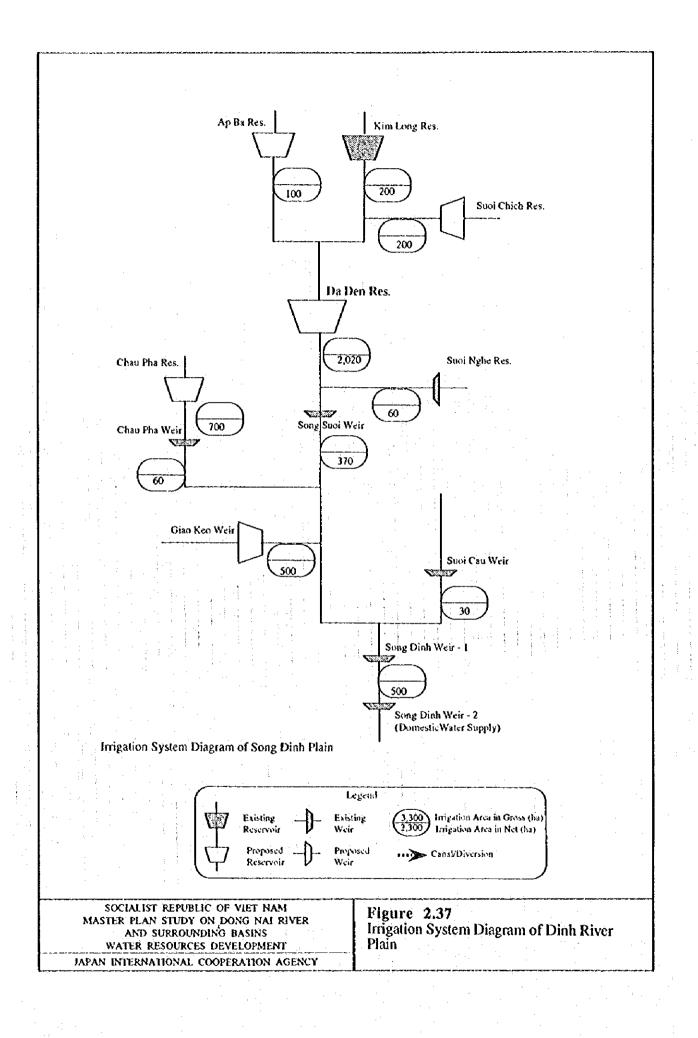


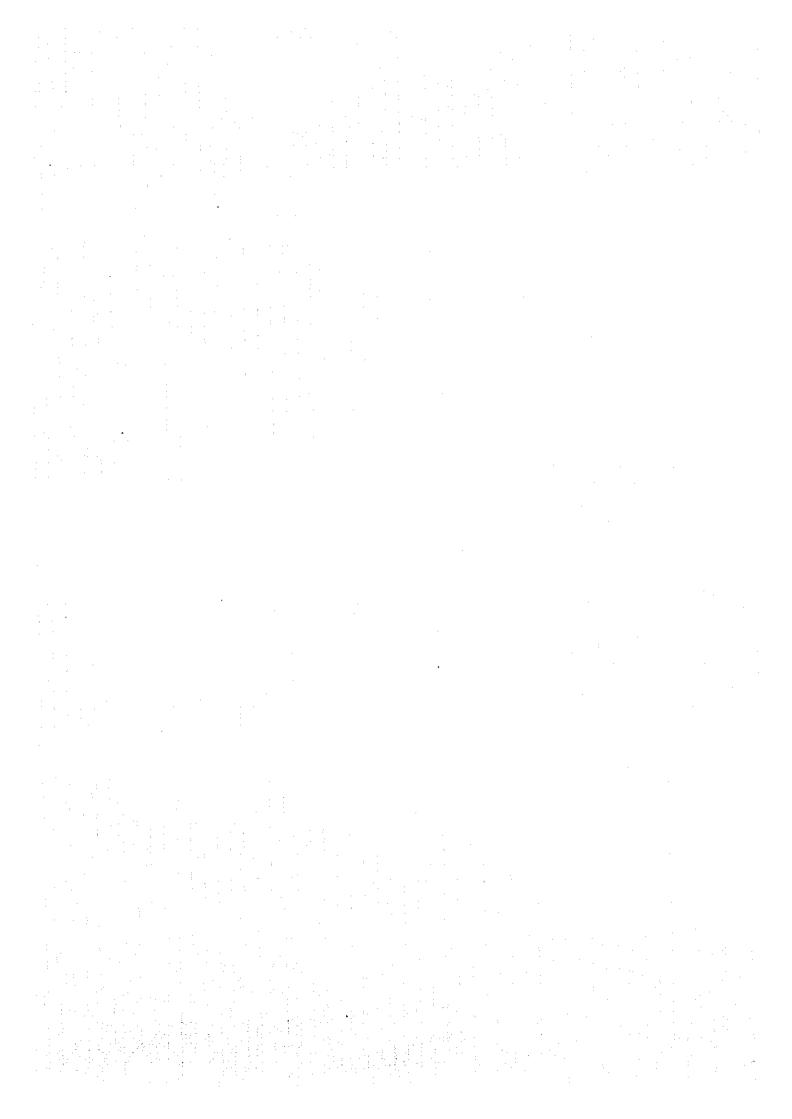


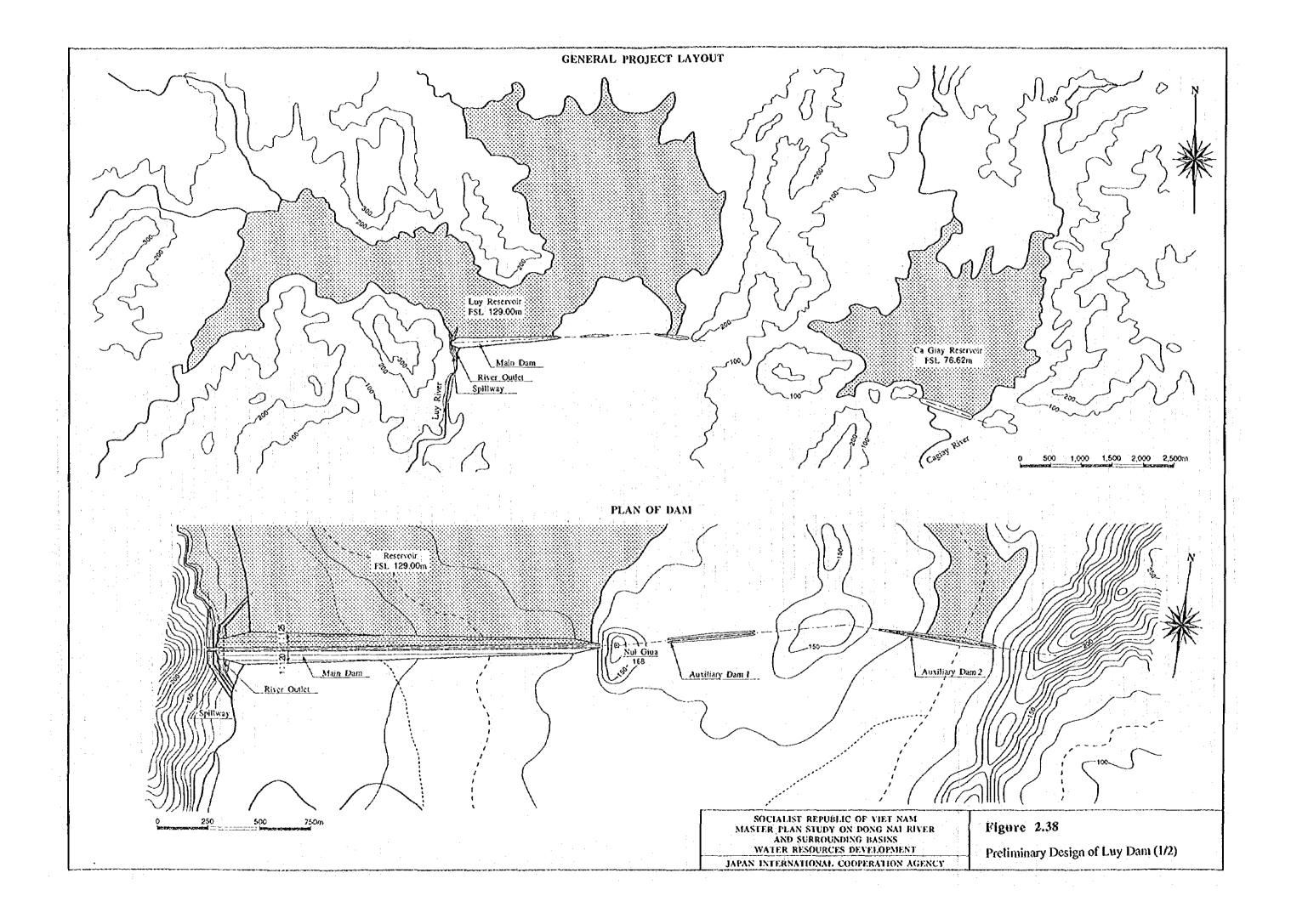


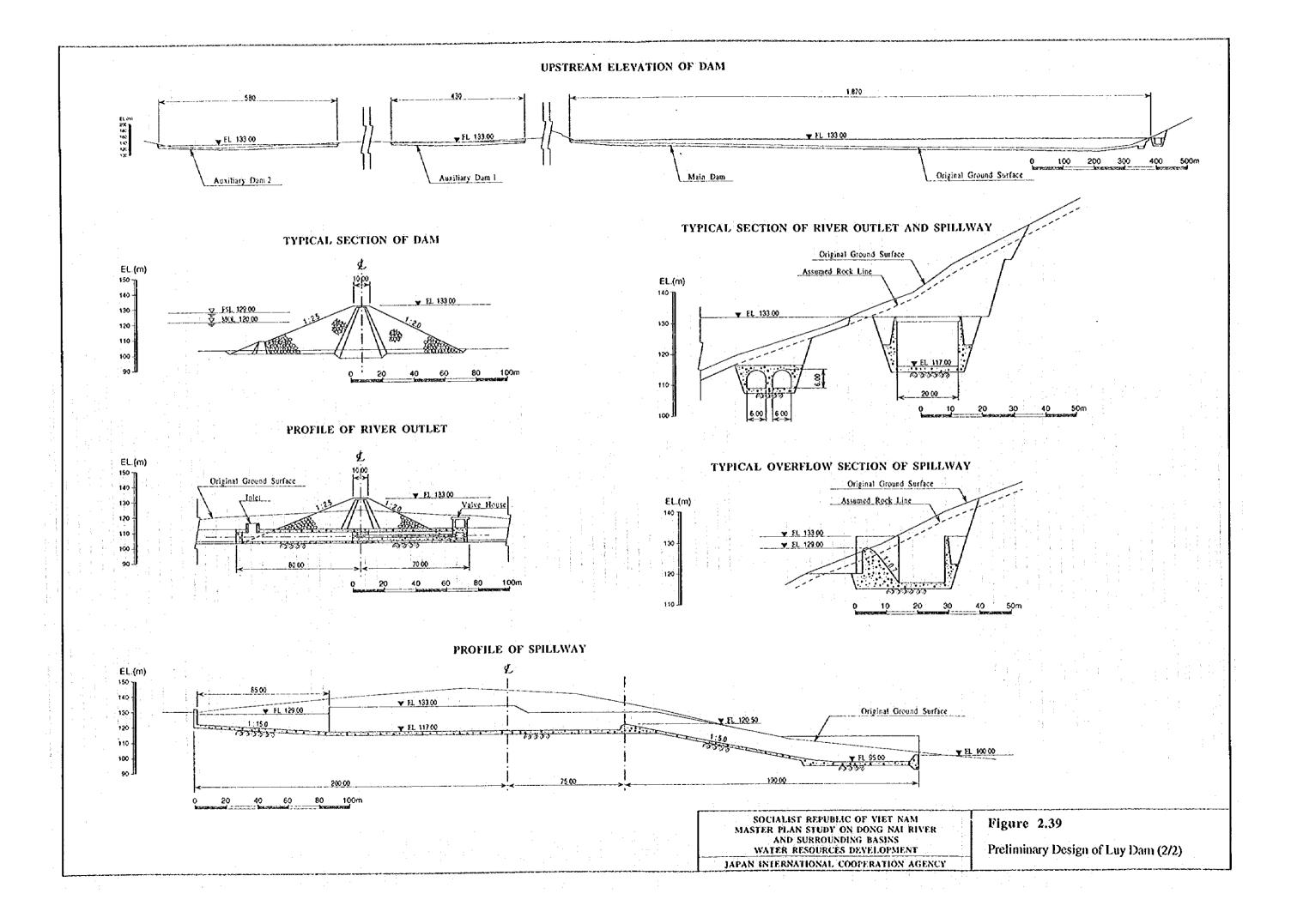
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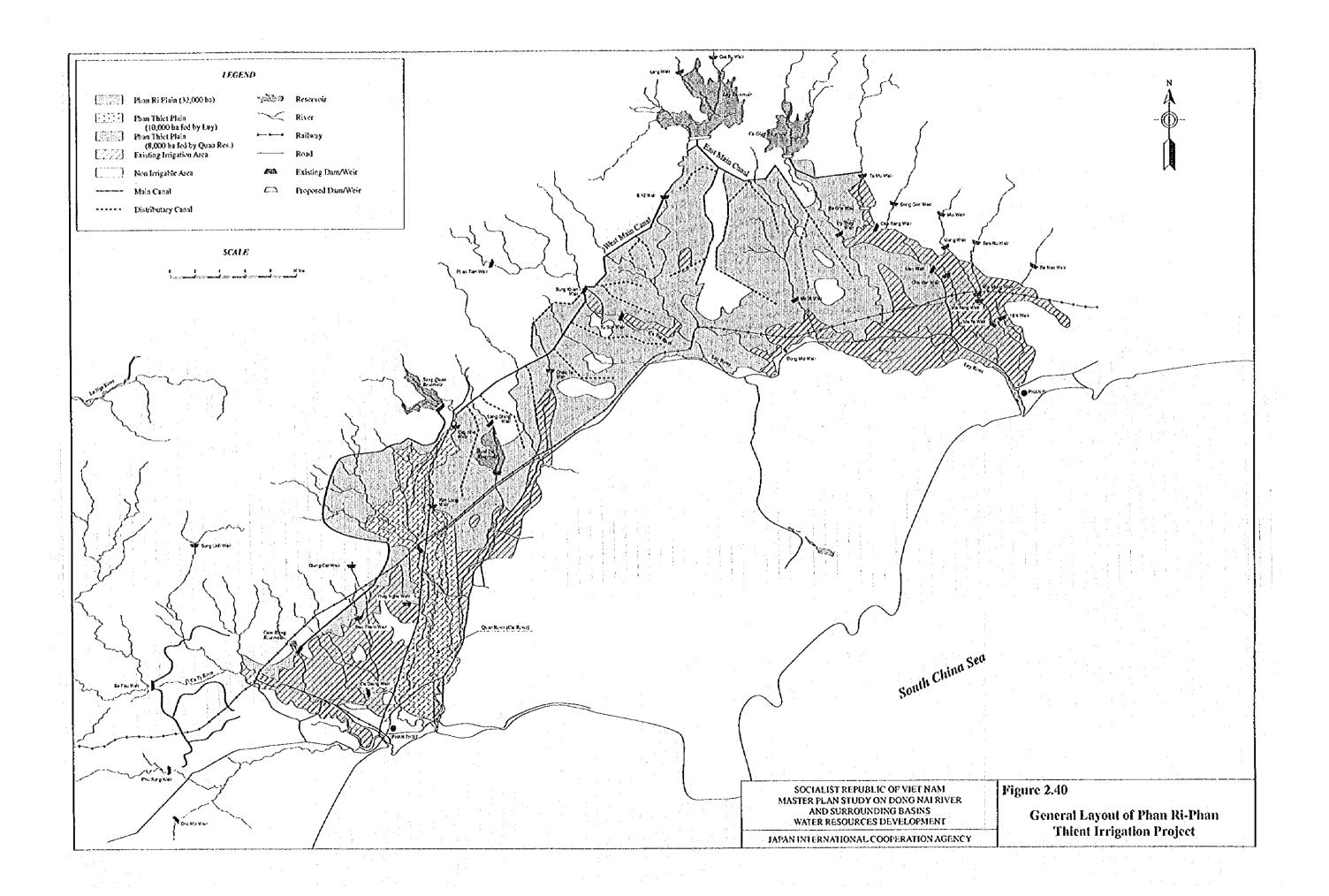
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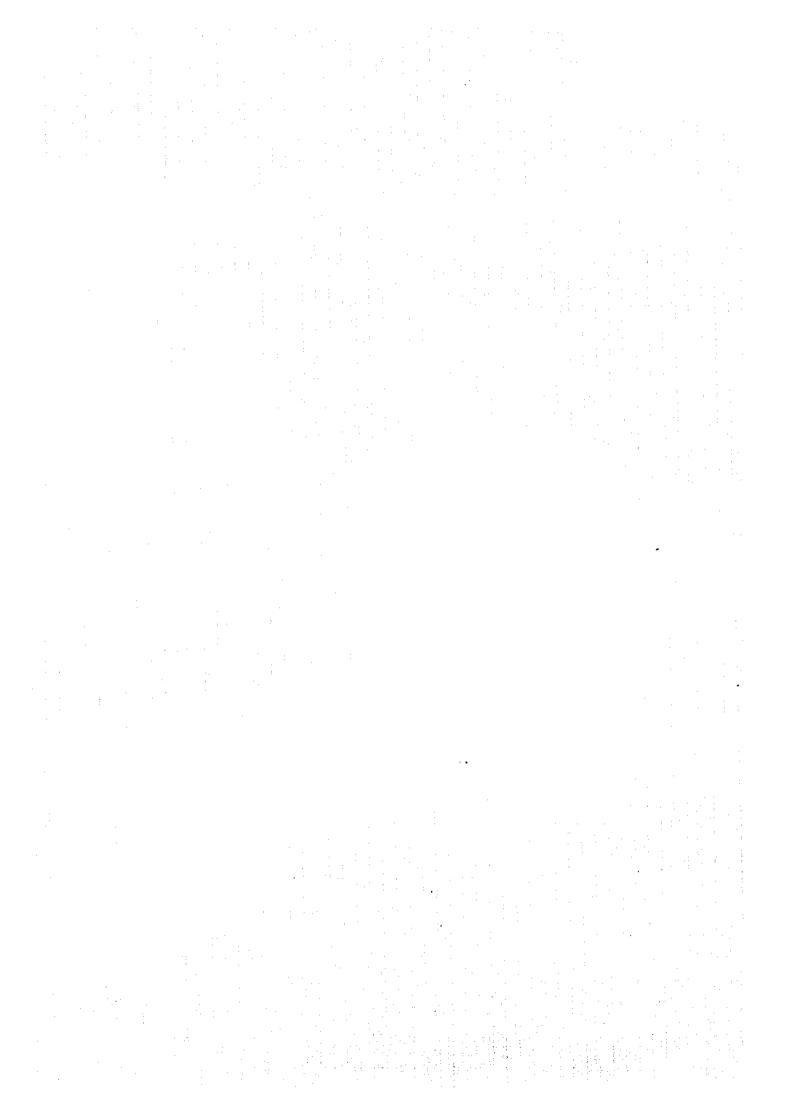
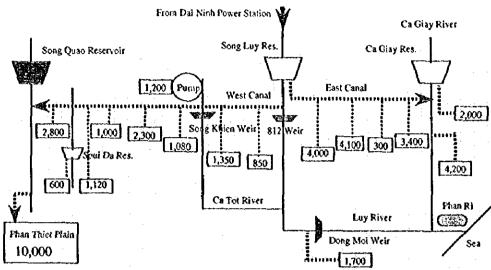
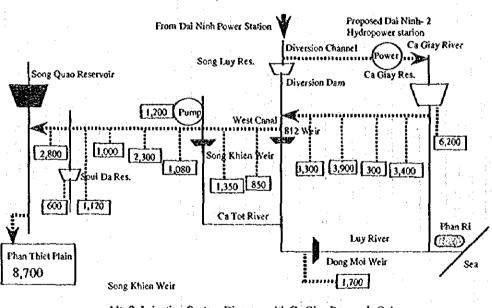


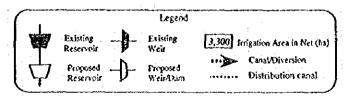
Figure 2.41 Irrigation System Diagram of Phan Ri - Phan Thiet Irrigation Project



Alt.-1: Irrigation System Diagram with Luy and Ca Glay Reservoirs



Alt.-2: Irrigation System Diagram with Ca Giay Reservoir Only

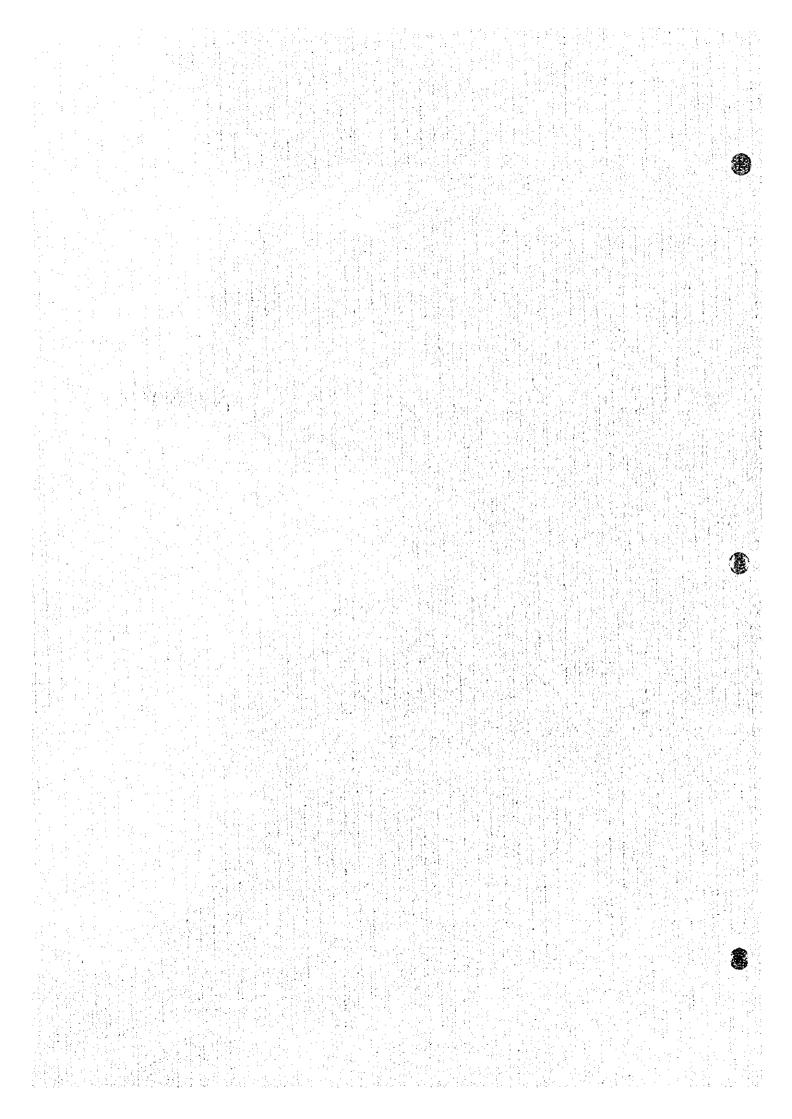


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Figure 2.41 Irrigaion System Diagram of Phan Ri-Phan Thiet Irrigaion Project

	1996, 1997, 1998, 1999, 2000   2001, 2002, 2003   2004   2005   2006   2007, 2008   2009   2010   2011   2012   2013   2014   2015	**************************************		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				WIIIII Company of the	and account of the contract of				Assessment States of the Control of	The second secon		WWW. Secretary and Secretary a	Share the state of				market and the second	When the the standing of the standard of the s	MIMINION CONTRACTOR CO	SOURCE SECURITY SECUR			Master Plan Study/Feasibility Study	ullillillilli : Design	••	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
SO MASTE				RE	PU	BL!		oF	VΙΙ				3.1	3.2	4. Phuoc Hoa Irrigation Project	· · · ·	2. 4.2 Phuoc Hoa Irrigation System		5. Dau Tieng Extension and HCMC-Long An Delta		5.1	5.2 Dau Tieng Extension Irrigation Scheme	5.3 HCMC Delta Irrigation Scheme	5.4 Long An Delta Irrigation Scheme				-					
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# ANNEX



#### Annex-I Form of Questionnaire for Agriculture and Irrigation (1/3)

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## JICA Dong Nai Project Inventory Survey of Irrigation Systems

	1. Name of Irrigat	ion System	<b>.</b>		
		Province			
	2. Condition of th	e System	🗌 a. Existing	g 🗍 b. Plannd	
	*completi	on year			
	3. Name of source	river			
	4. Name of Water	Intake Structures (	list alt )		
		r	) Pani		
		v	Yeir		:
		Pump S	tation		
•		•	Well	-	
		SI	luice		
	5. Maximum Comp	and Area of the Sy	stem(ha)		•
	6. Planned Net lrr	igable Area (ha) an	đ Unit Yields(ton/h	a)	•
				Area (ha)	Yields (ton/ha)
	Win	ter - Spring	Paddy		
			Other Crops		
	Sun	nmer - Aututm	Paddy		
			Other Crops		• • • • •
	Wet	Season, Other	Paddy		
			Other Crops		
	7. Currently Net II	rrigated Area and U	Init Yield		
				Area (ha)	Yields (ton/ha)
	Win	ter - Spring	Paddy		
		ter oping	Other Crops		
	Sup	nmer - Aututm	Paddy		
4	50		Other Crops		
	Wei	t Season, Other	Paddy		
			Other Crops		
:					
		: 			
	8. Number of Ben	eficiary Farm House	holds Covered by 1	the System	
	9. Number of Coc	peratives in the Sys	tem		
1	0. What Organizat	ion is in Charge of	the Operation of t	he System?	
		tive Db. Others	Specify		
					+
. 1	it. Reasons for the	e Under-utilization o	f the System, if a	ny	
,	🗋 a. Inadequat				
	(i) no regulat	ion for the collection	of water charge		
		* -			

### JICA Dong Nat Project Inventory Survey of Irrigation Systems ii) resistance of farmers in paying the water charge [] iii) others, specify ☐ c. Reluctance of farmers in planting crops □d. Insufficient development in on-farm irrigation systems []e. Water shortage ☐ f. Broken-down of the system g. Others, specify 12. Regulated Charges for Irrigation Water Supply, if any Wet Season Summer-Aututmn Winter-Spring Kg/ha dong/ha 13. Actual Collection of Water Charges Kg/ha dong/ha 14. Existing Facilities a.Irrigation and Drainage Facilities Intake weir height (m) Intake weir crest length (m) Designed intake discharge (m3/sec) Present maximum intake discharge (m3/sec) Main canal length (km) Secondary canal length (km) Tertiary canal length (km) Drainage canal length (km) Number of related structures b.Reservoir and Dam Reservoir and Dam type Reservoir and Dam length (m) Reservoir and Dam height (m) Gross Storage Capacity (MCM) Effective Storage Capacity (MCM) Flood water level ( elevation, m) Normal water level ( elevation, m) Low water level ( elevation, m) Other information c.Pump ☐ Electric motor ☐ Diesel engine Driving by

Driving power ( HP) Lifting height (m) Designed pumping discharge (m3/sec) Present maximum pumping discharge (m3/sec)

### JICA Dong Nai Project Inventory Survey of Irrigation Systems

15. Constraints

16. Development Plan

Type of Development Plan

Facilities to be Rehabilitated and Newly Constructed

Estimated Development Cost

