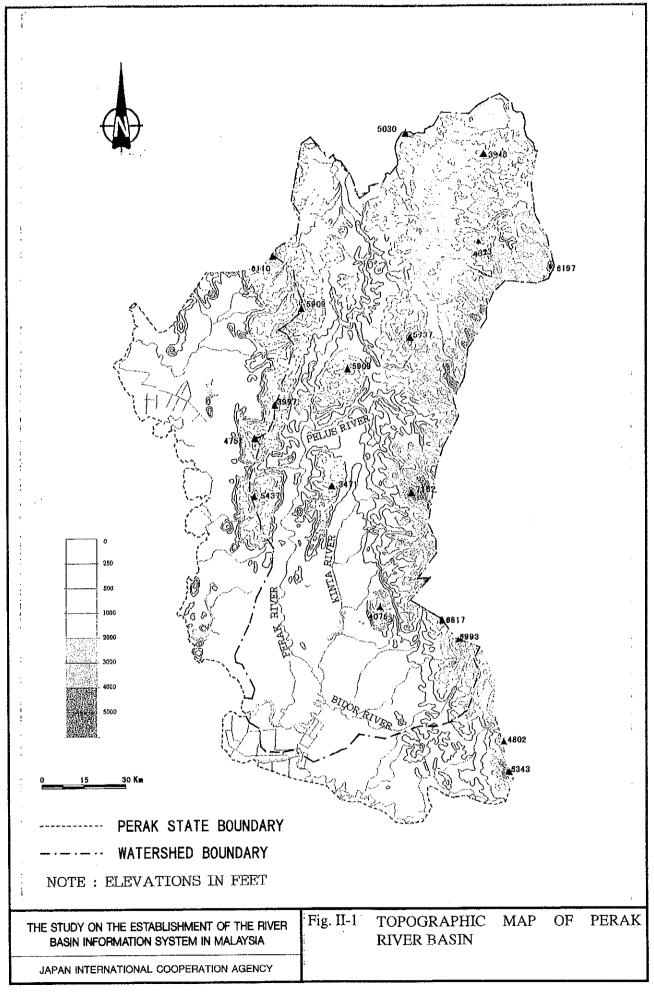
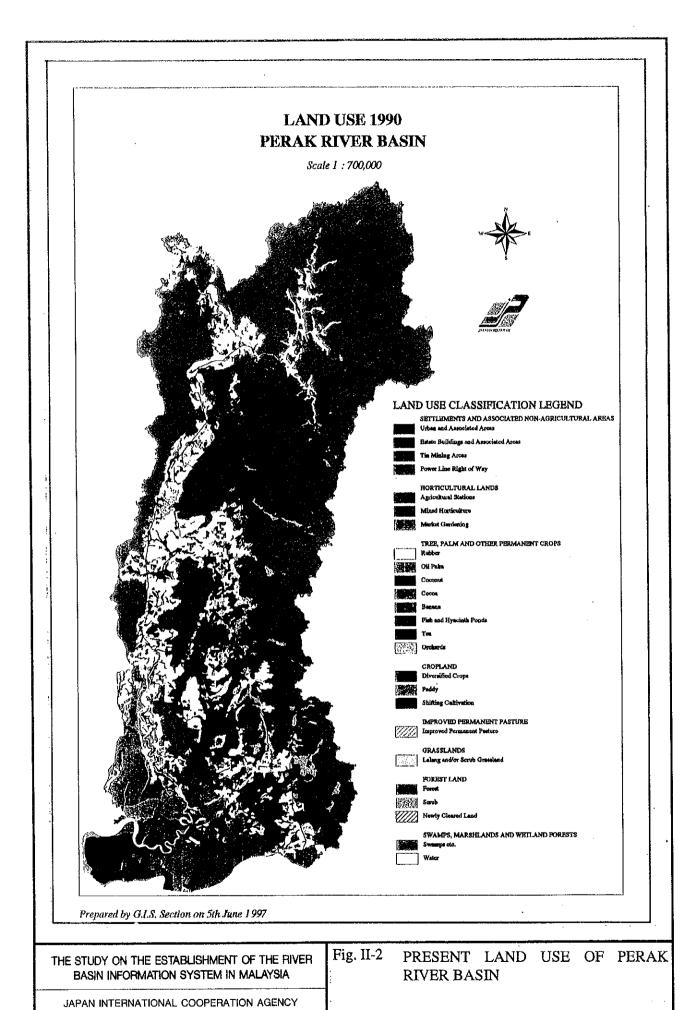
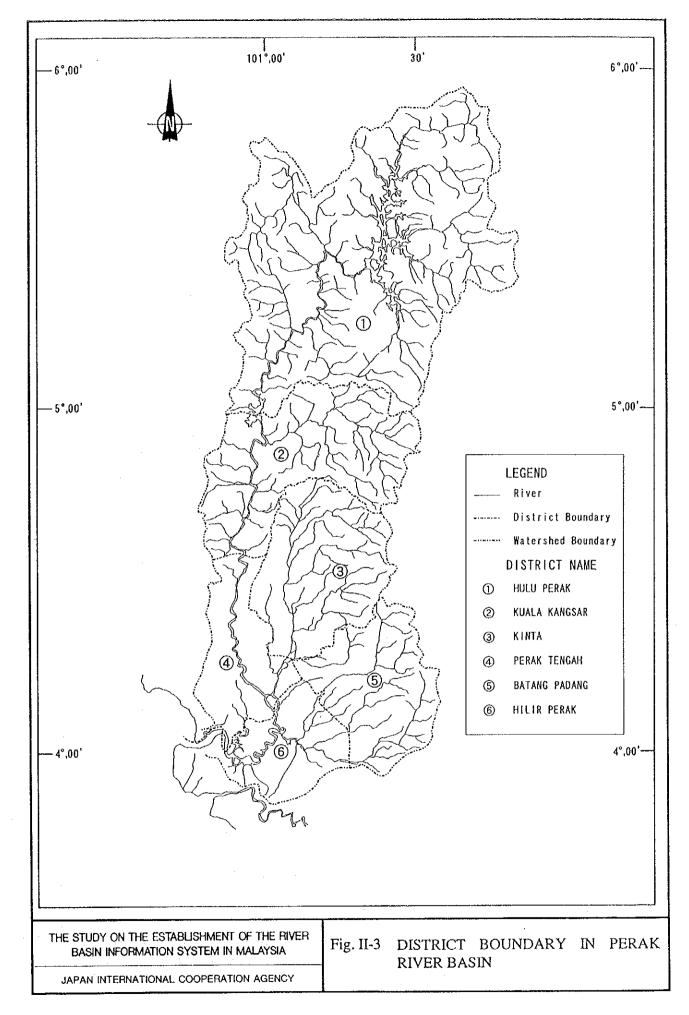
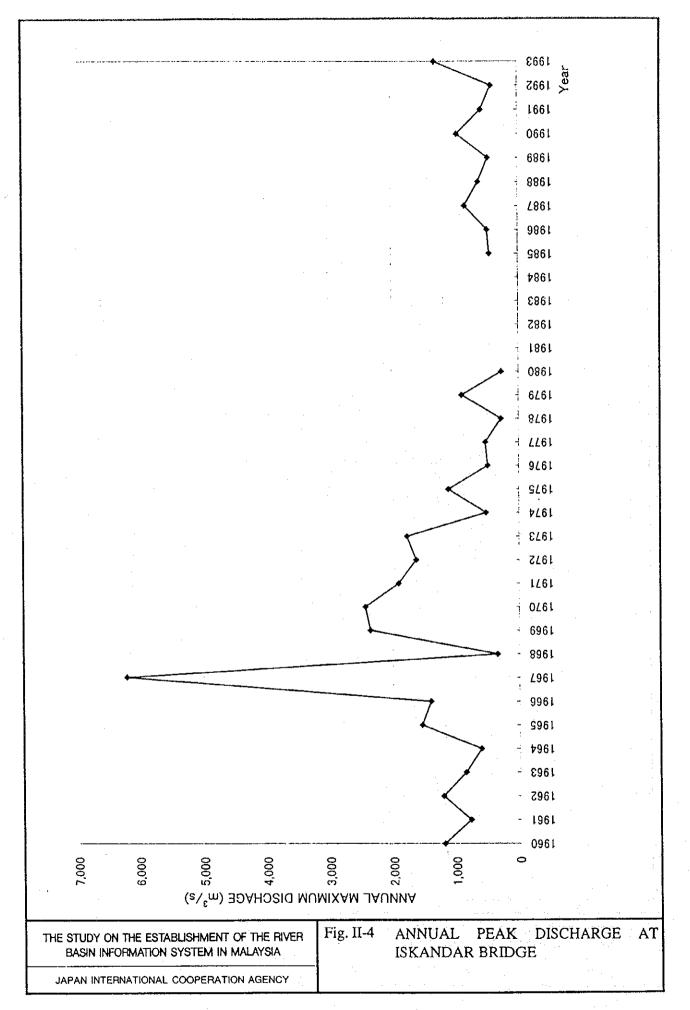
FIGURE

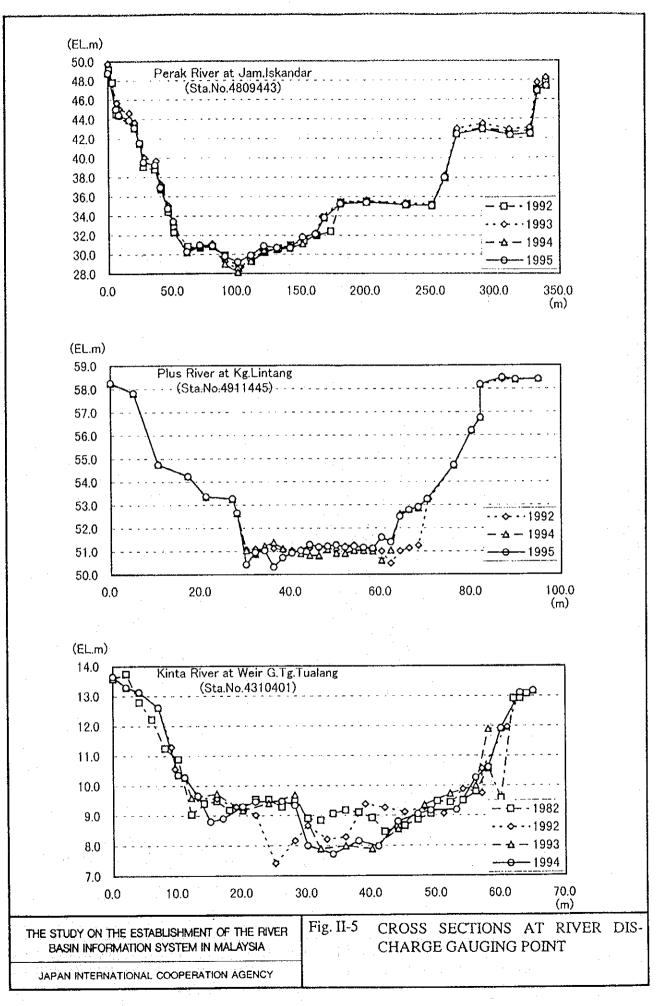


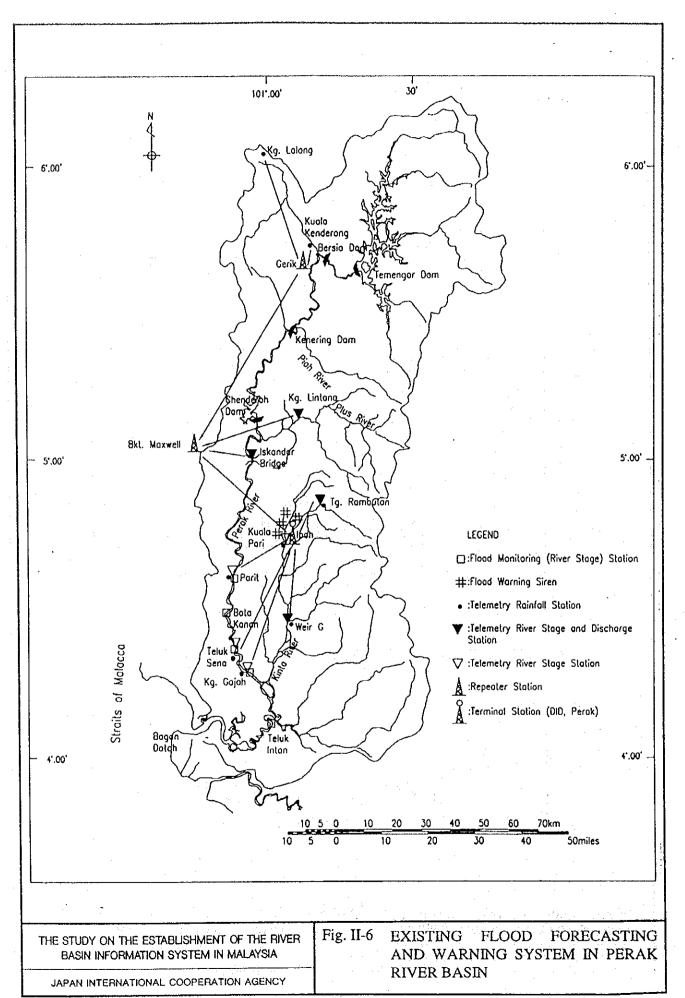


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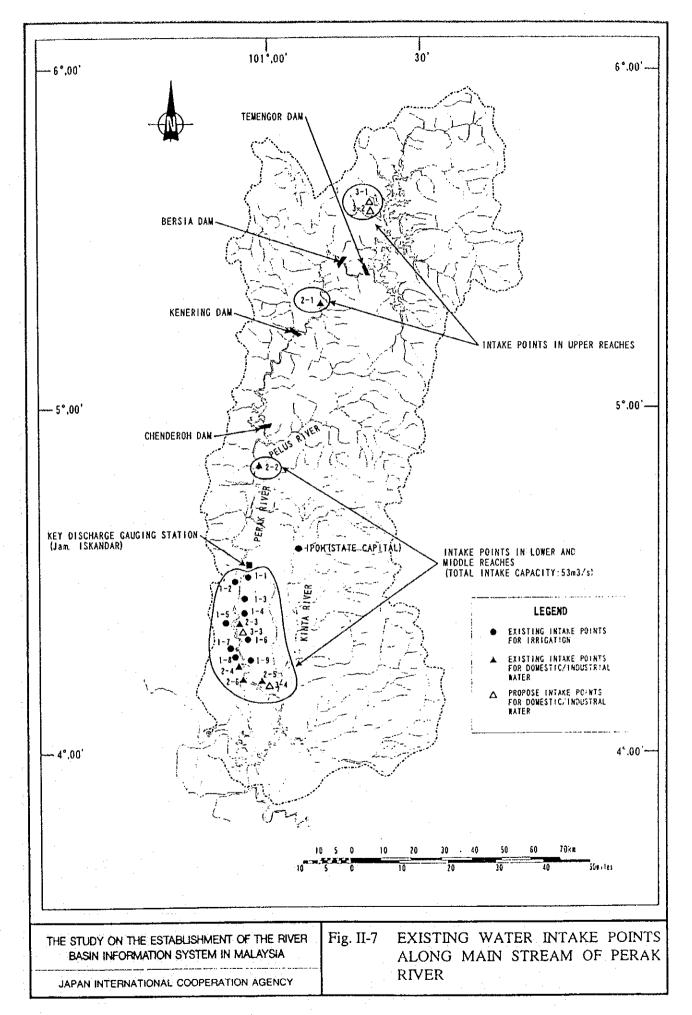


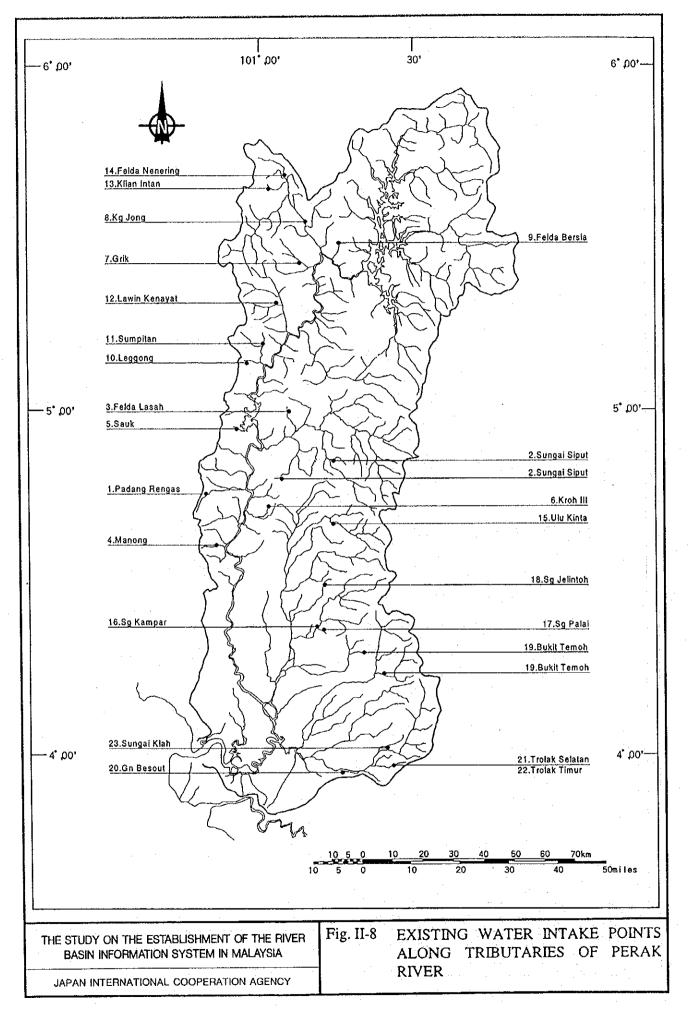


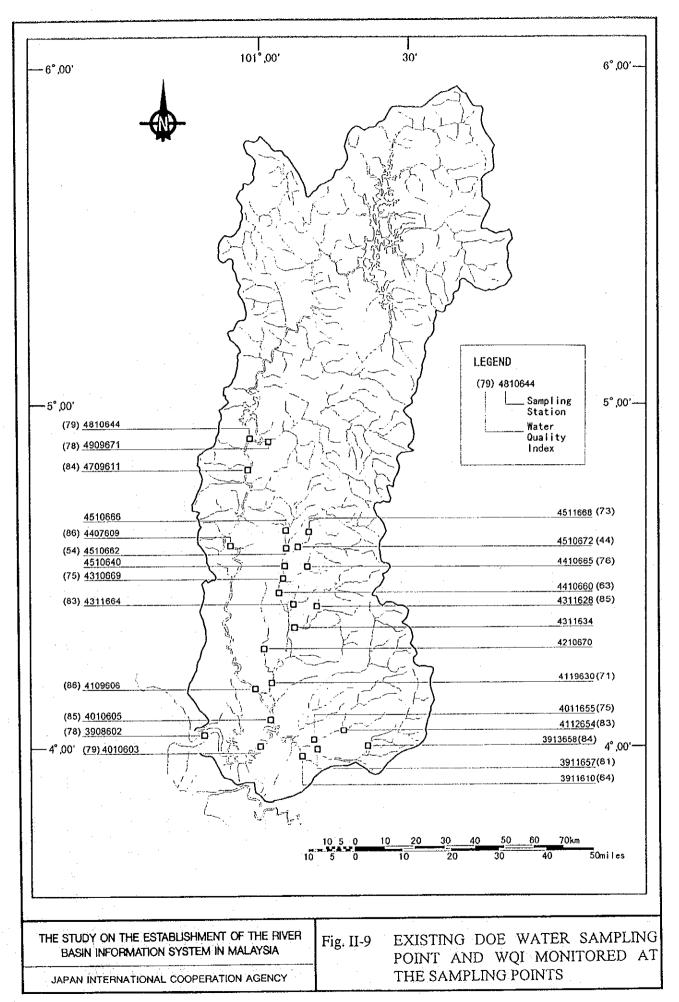


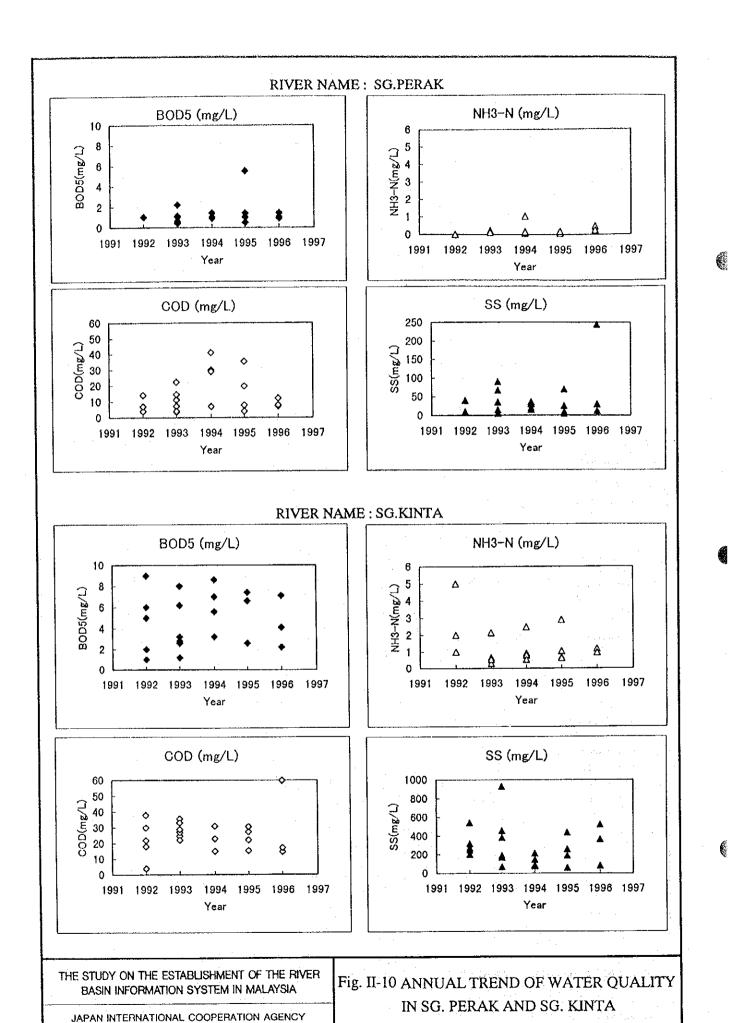


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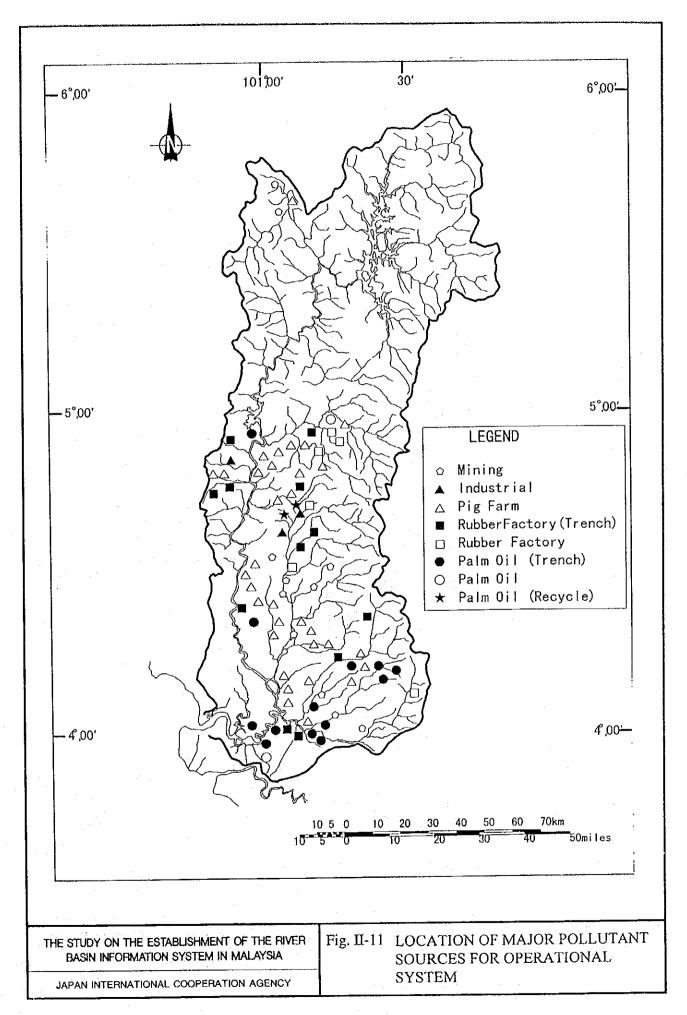


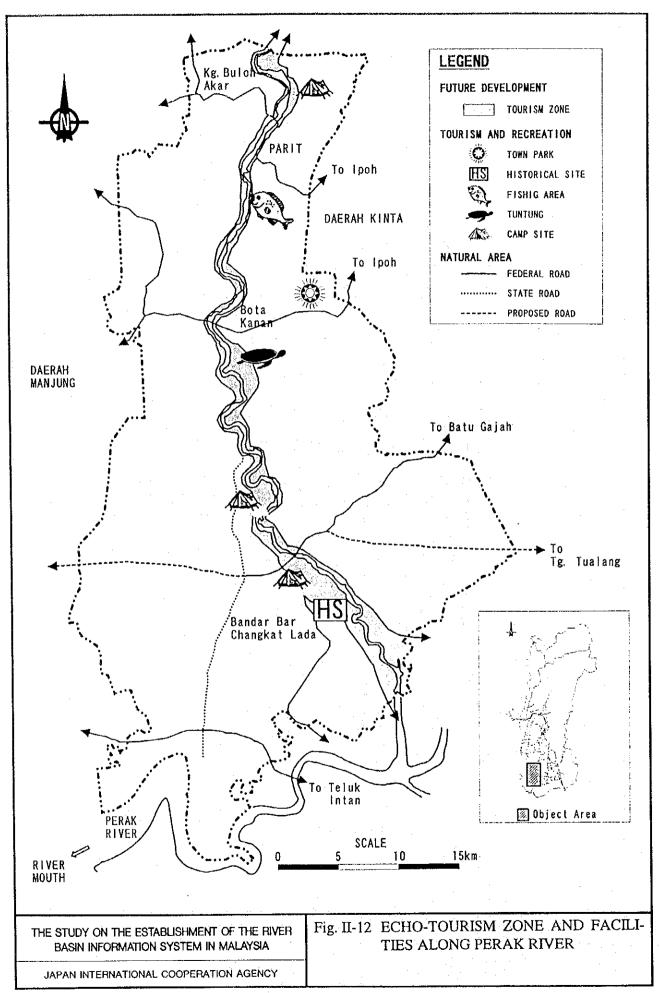






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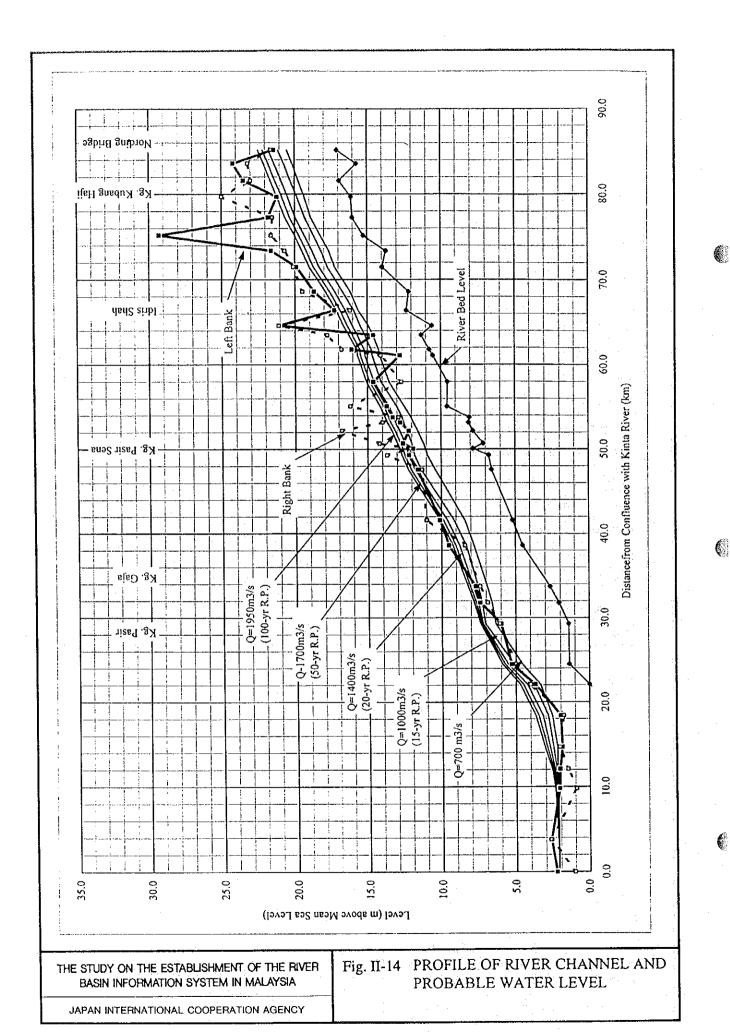




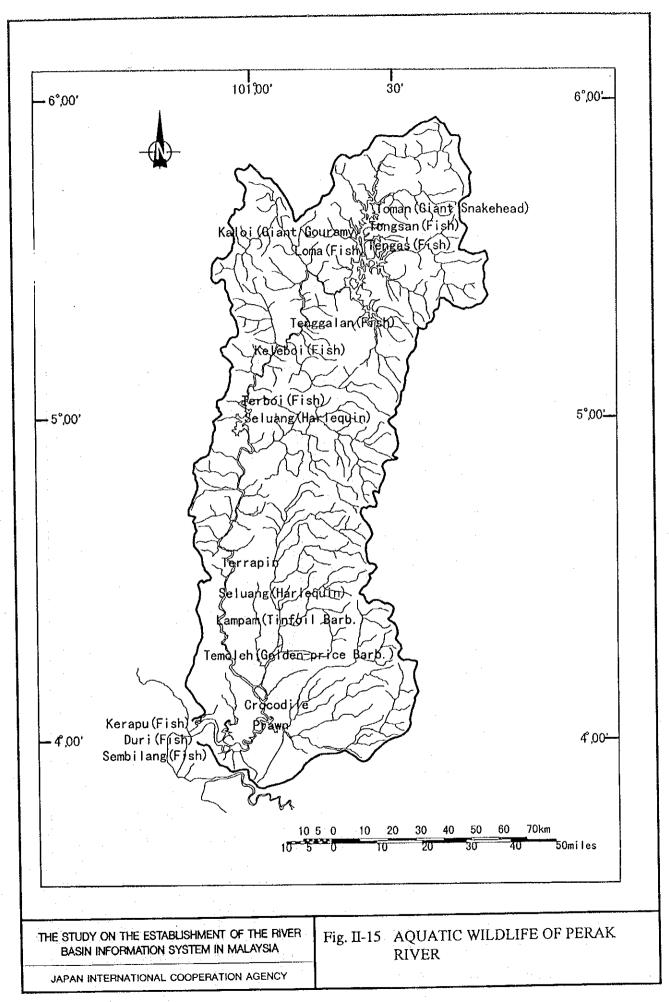
ltems to be Estbalished	8th MP	9th MP	10th MP	11th MP
	(2001-2005)	(2006-2010)	(2011-2015)	(2016-2020)
1. Gauging/Monitoring System				
(1) Water stage gauging (expansion of the existing netwok)	•			
(2) Portable information terminal (PIT)	•			
(3) Automatic water quality gauge		•		
(4) Radar rainfall gauge			•	
(5) Industrial television (ITV)		Ē		•
2. Processing System				
(1) Data base server	•			
(2) Input/output devices	•			
(3) Computer for analysis of real-time water quality data		•		
(4) Computer for analysis of radar rainfall gauge data			• •	
(5) Audio Control Server				•
3. Data Transmission System				
(1) Telemetry system (expansion of the existing system)	•			
(2) Optical fiber network (between KL - Ipoh and within the area of KL)	•			
(2) Telemetry system (for real-time water quality)		•		
(3) Maltiplex radio wave system (for radar rainfall gauge)			•	
(4) Optical fiber network (within Perak river nasin)				•

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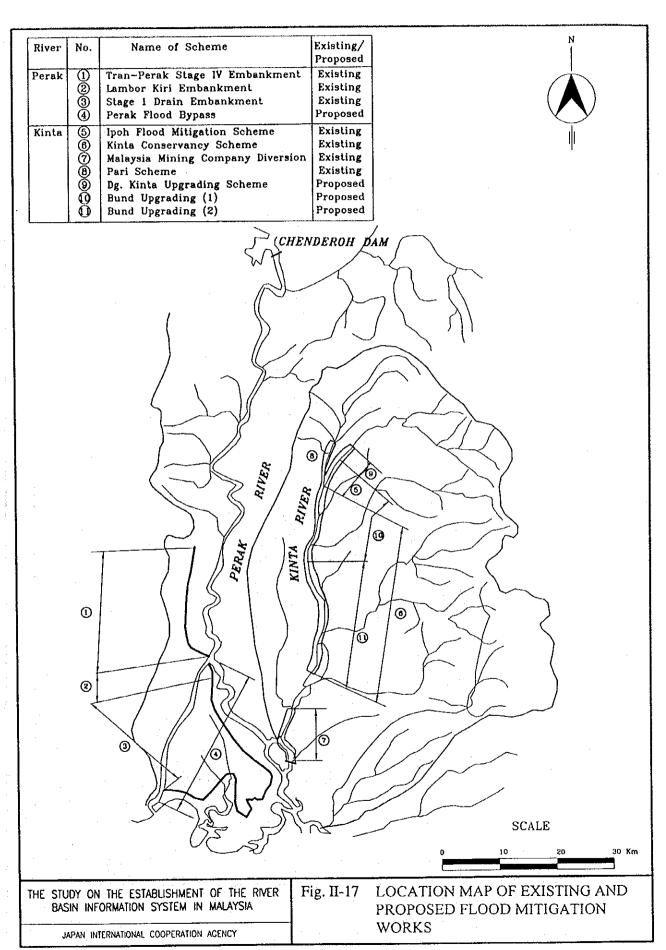
Fig. II-13 PROJECT IMPLEMENTATION SCHEDULE

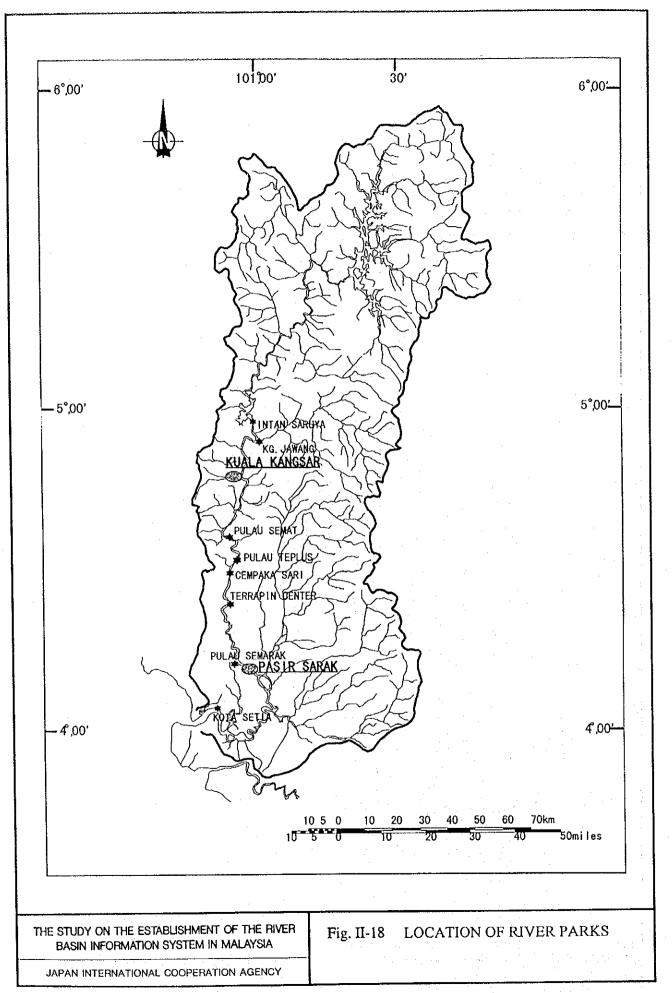


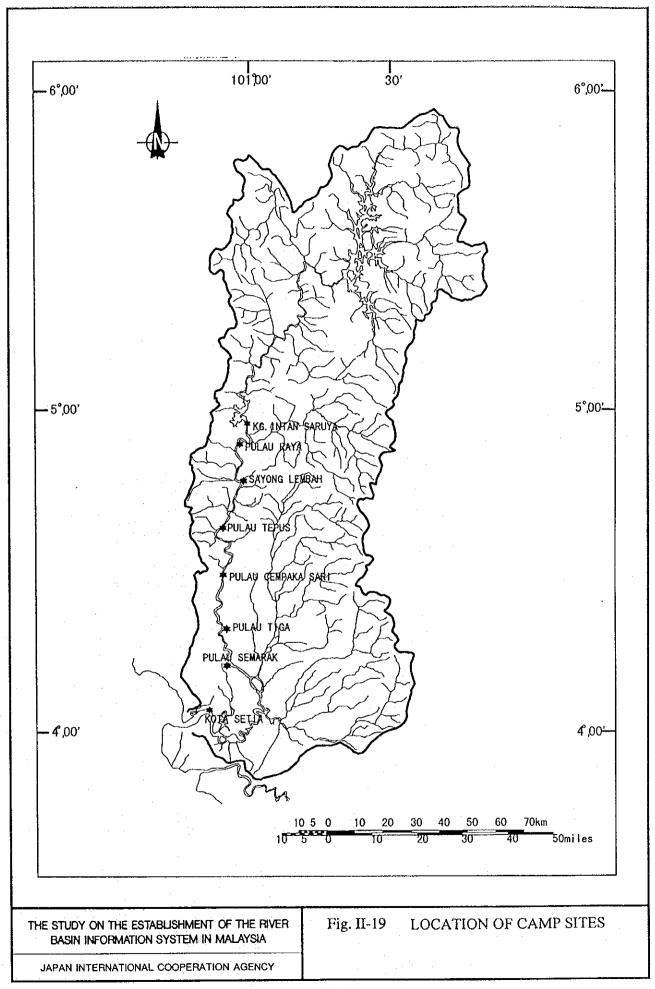
II-F- 14

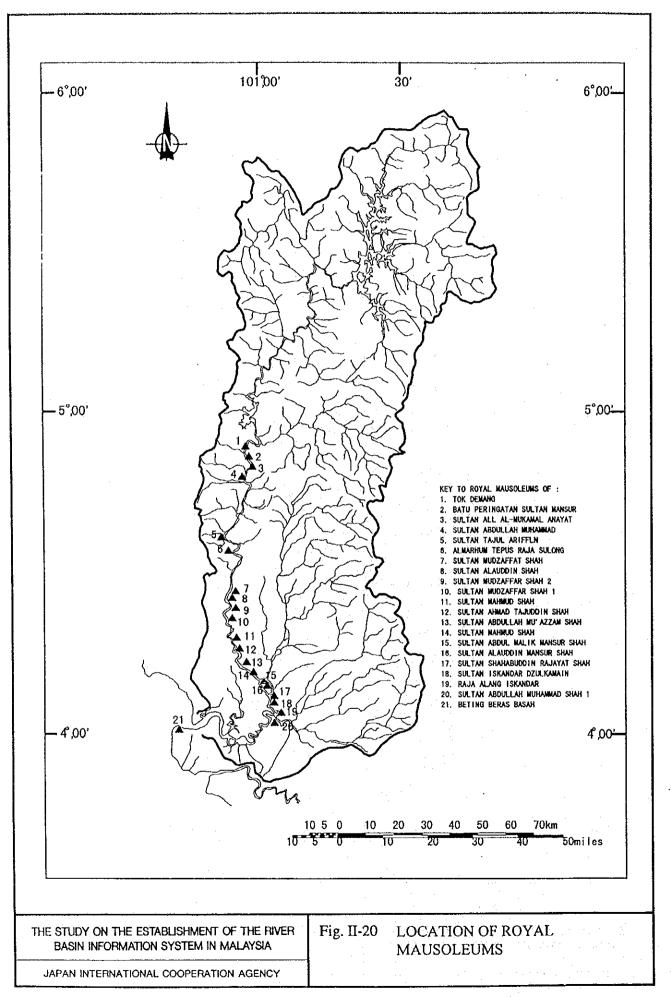


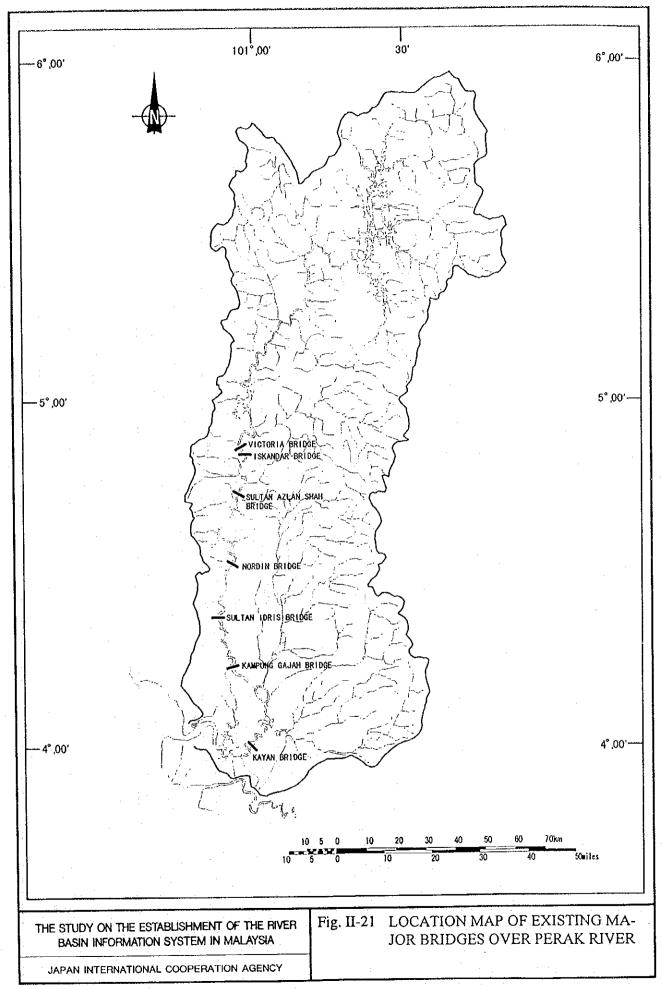


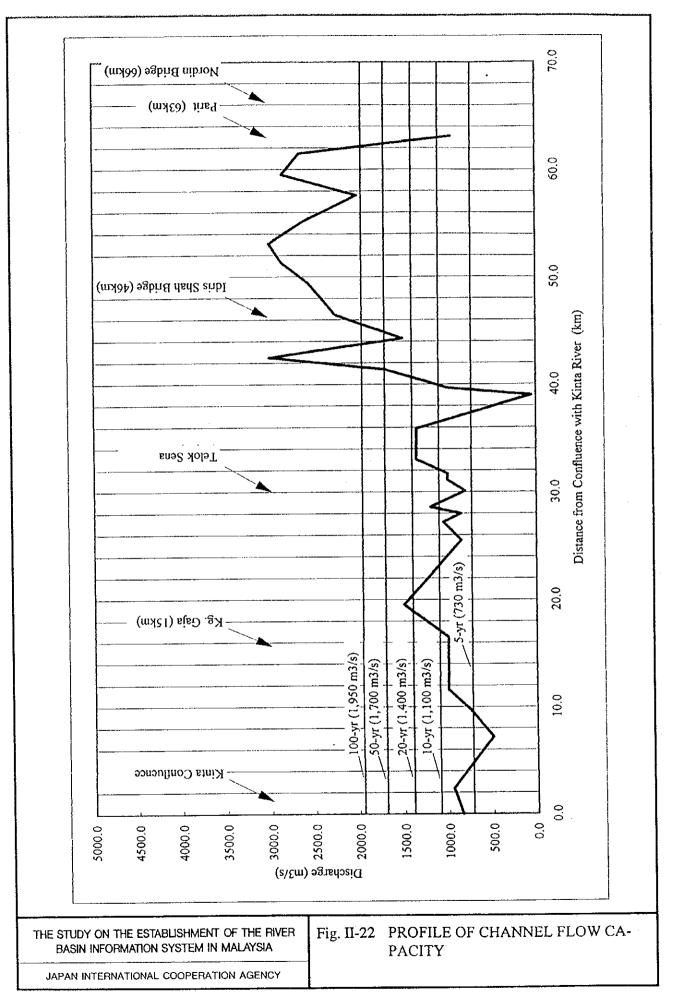


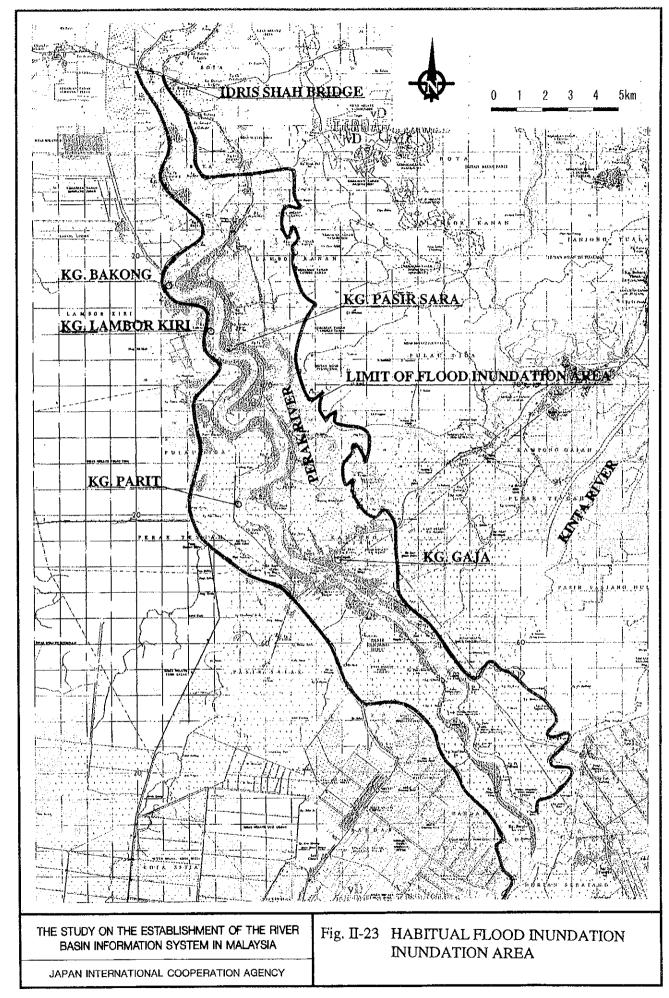


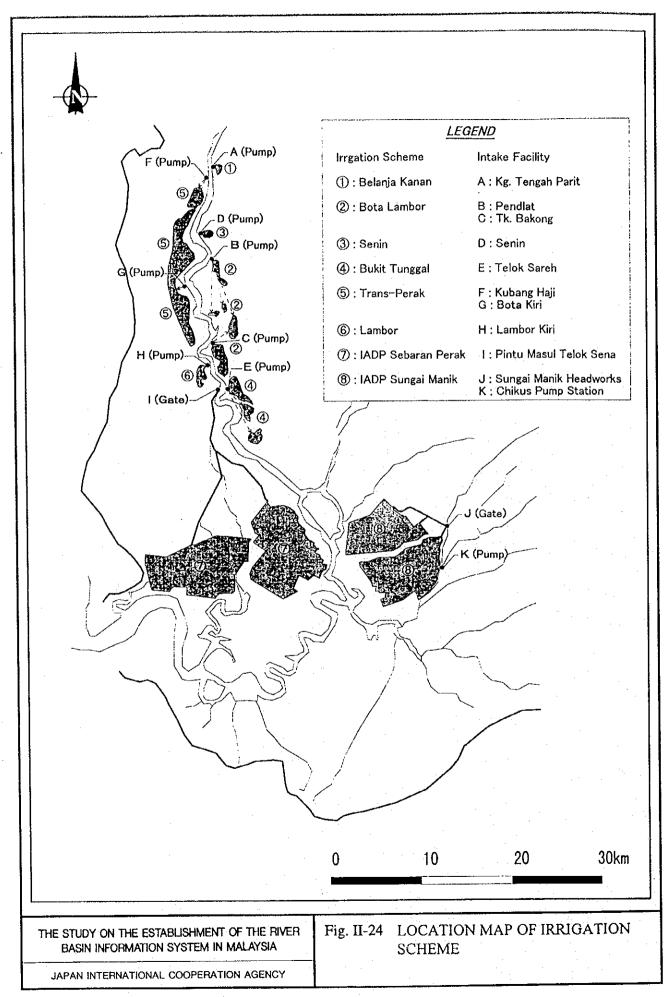


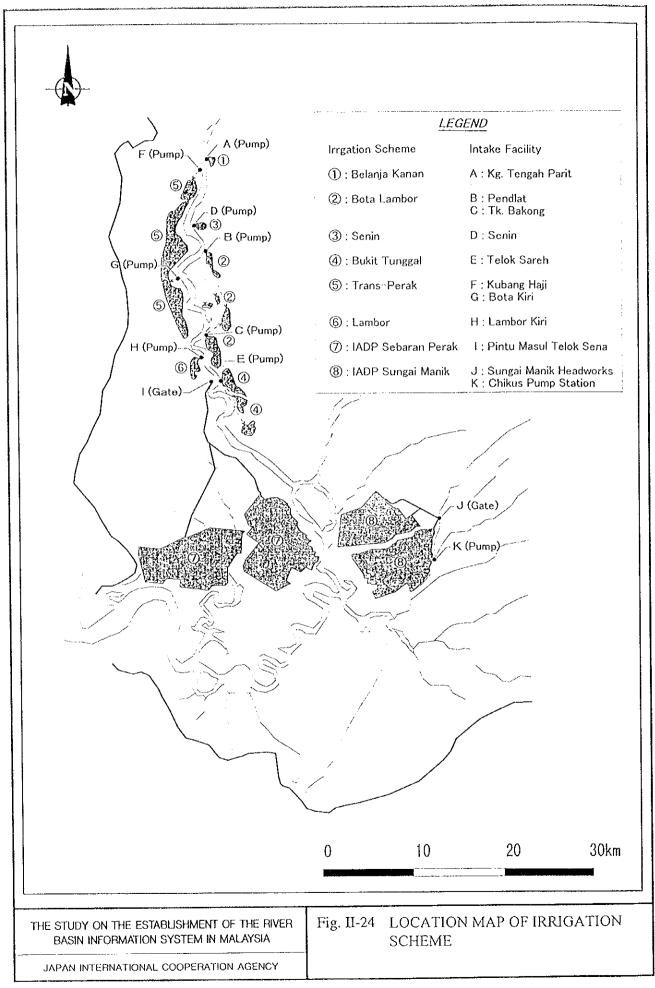


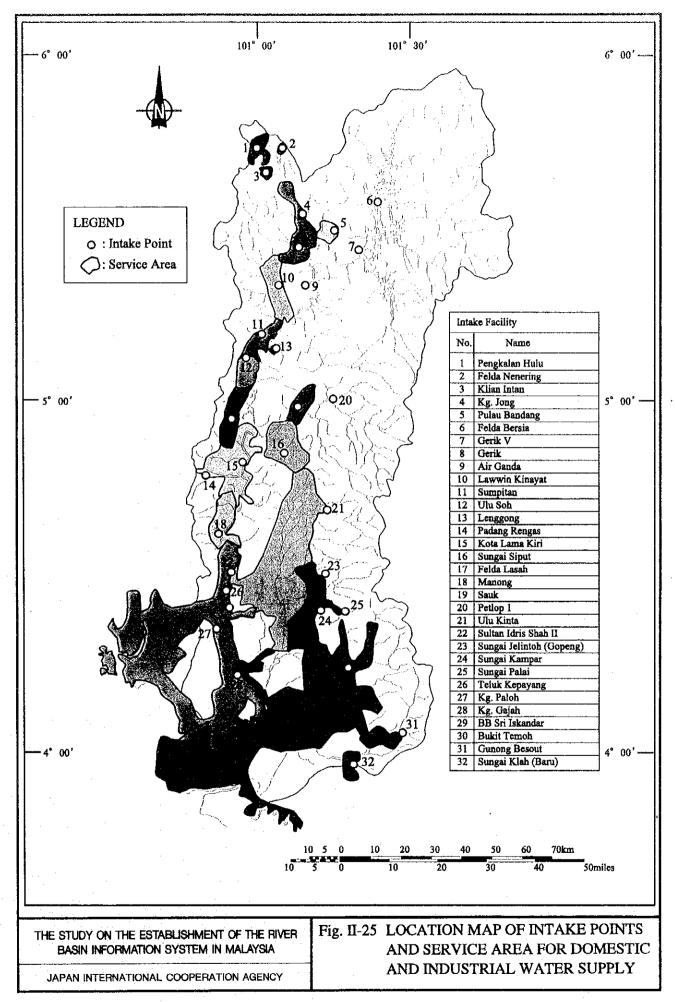


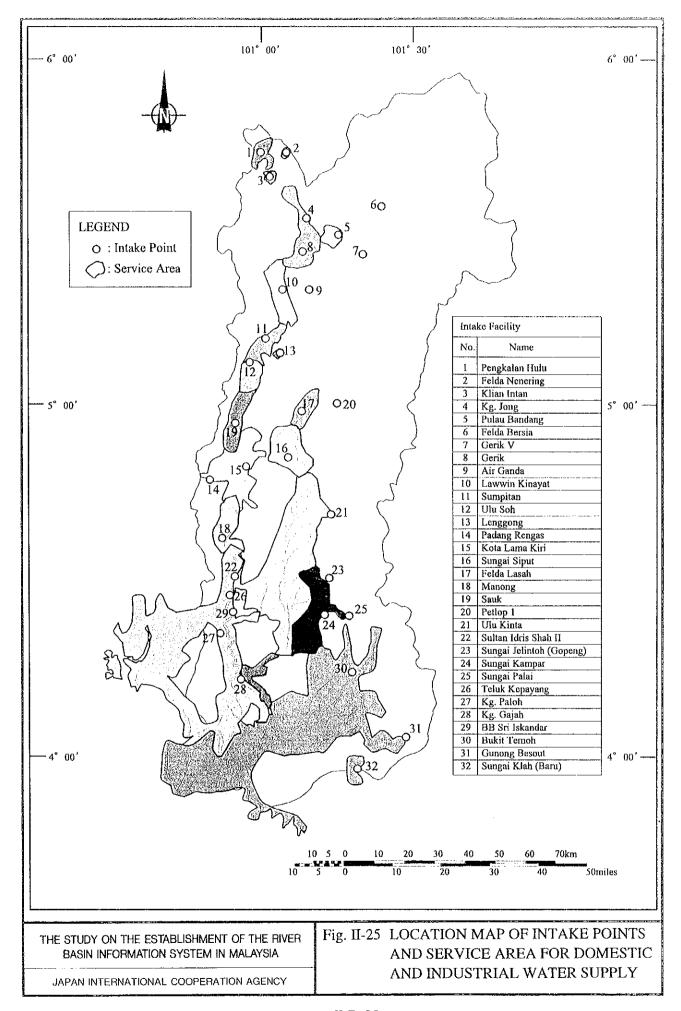


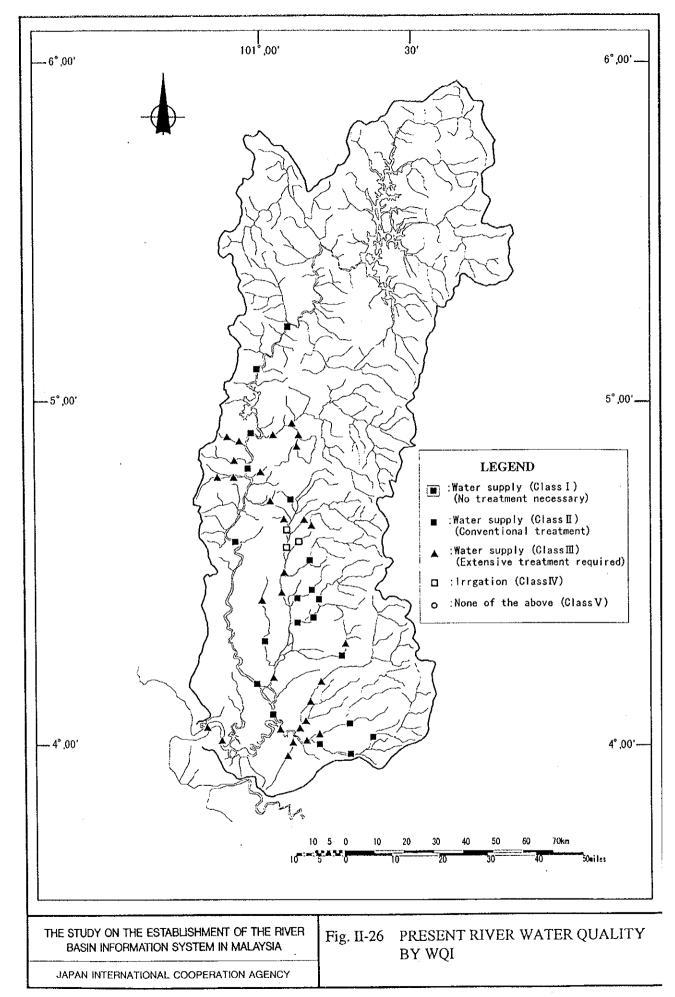


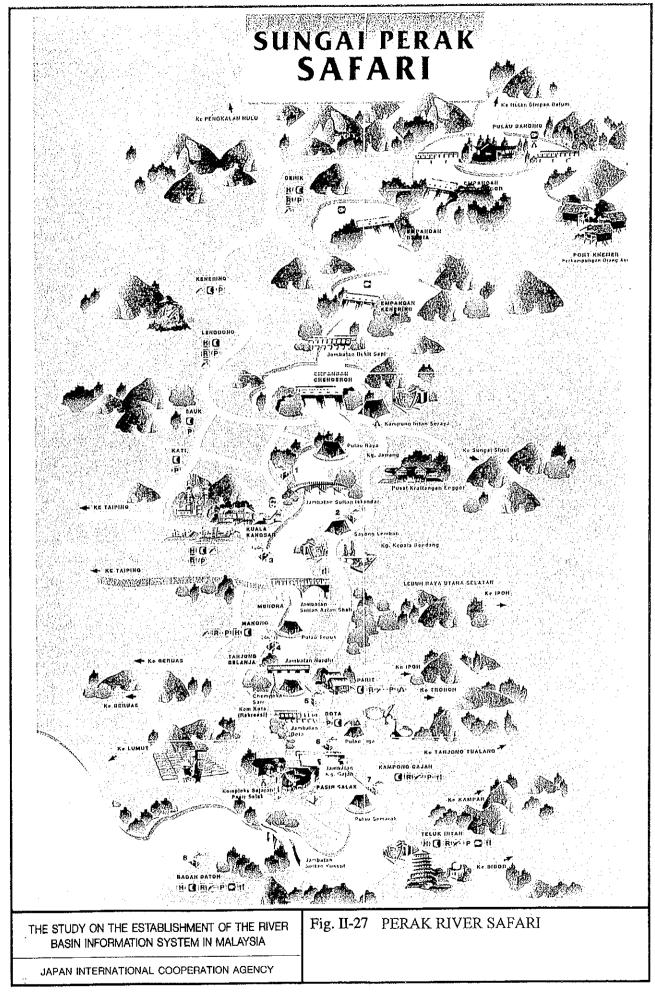






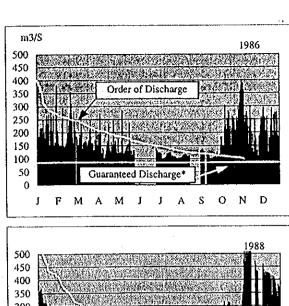


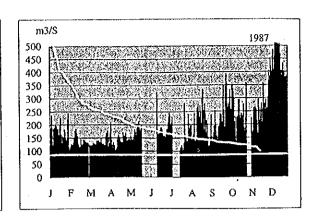


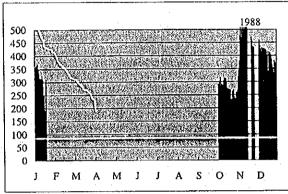


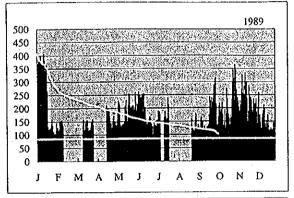
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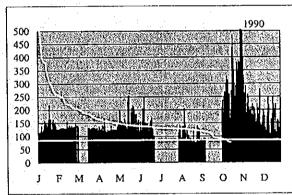
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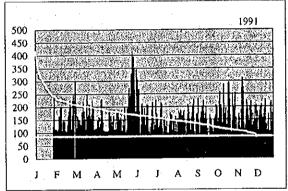


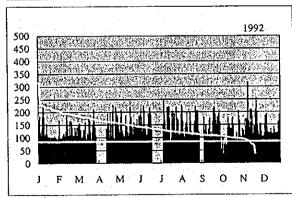


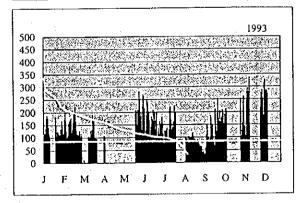








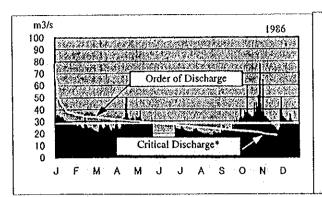


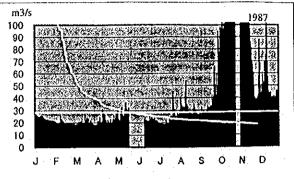


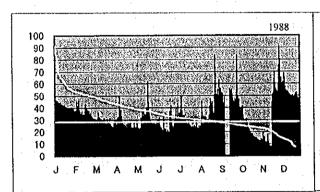
* Guaranteed Discharge from Chenderoh Dam (3000cusec or 84.9m3/s)

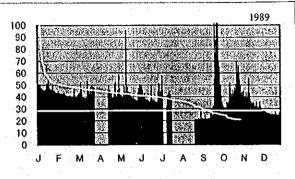
THE STUDY ON THE ESTABLISHMENT OF THE RIVER BASIN INFORMATION SYSTEM IN MALAYSIA

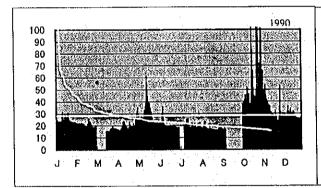
Fig. II-28 DAILY AVE. OUTFLOW DISCHARGE FROM CHENDEROH DAM

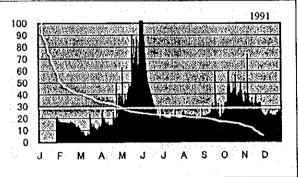


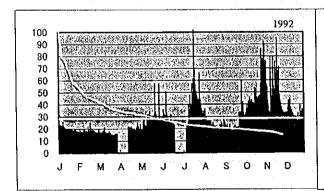


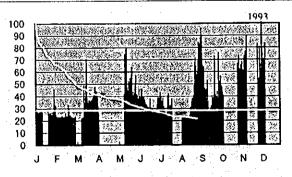








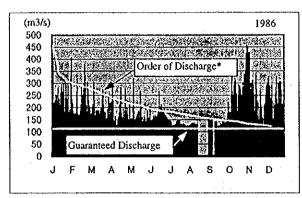


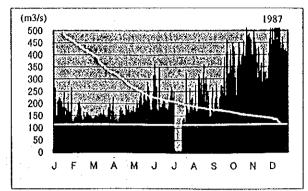


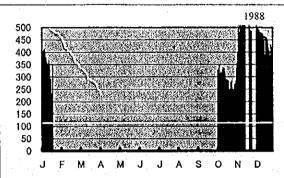
* Critical discharge (1000cusec or 28.3 m3/s) to guarantee the flow discharge at Iskandar Bridge in case of dam outflow of 3000cusec

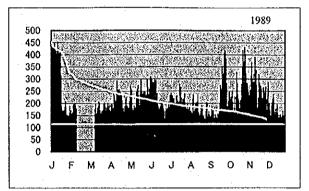
THE STUDY ON THE ESTABLISHMENT OF THE RIVER BASIN INFORMATION SYSTEM IN MALAYSIA

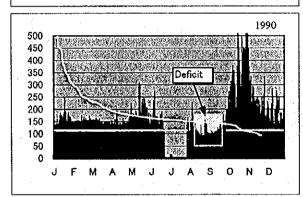
Fig. II-29 DAILY AVE. RUNOFF DISCHARGE FROM PELUS RIVER

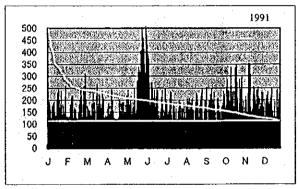


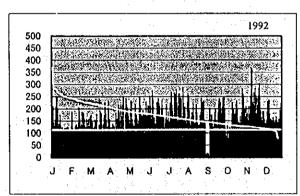


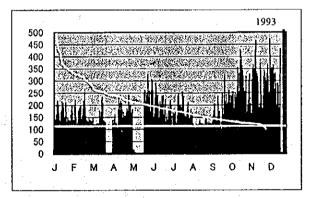










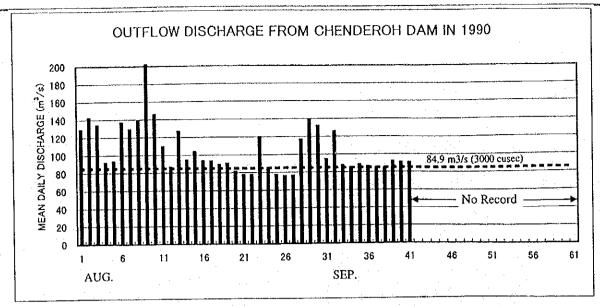


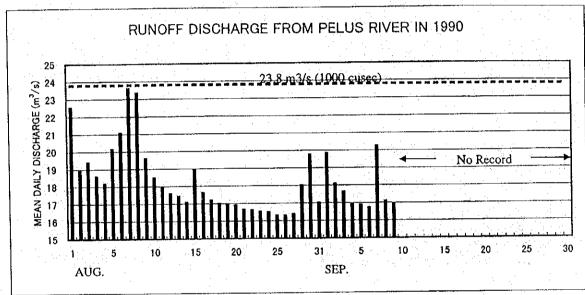
* Guaranteed Discharge at Iskandar Bridge by Chenderoh Dam (4000cosec or 113.2 m3/s)

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Fig. II-30 DAILY AVE. FLOW DISCHARGE AT ISKANDAR BRIDGE





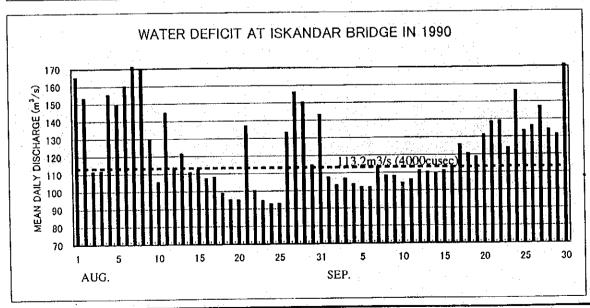
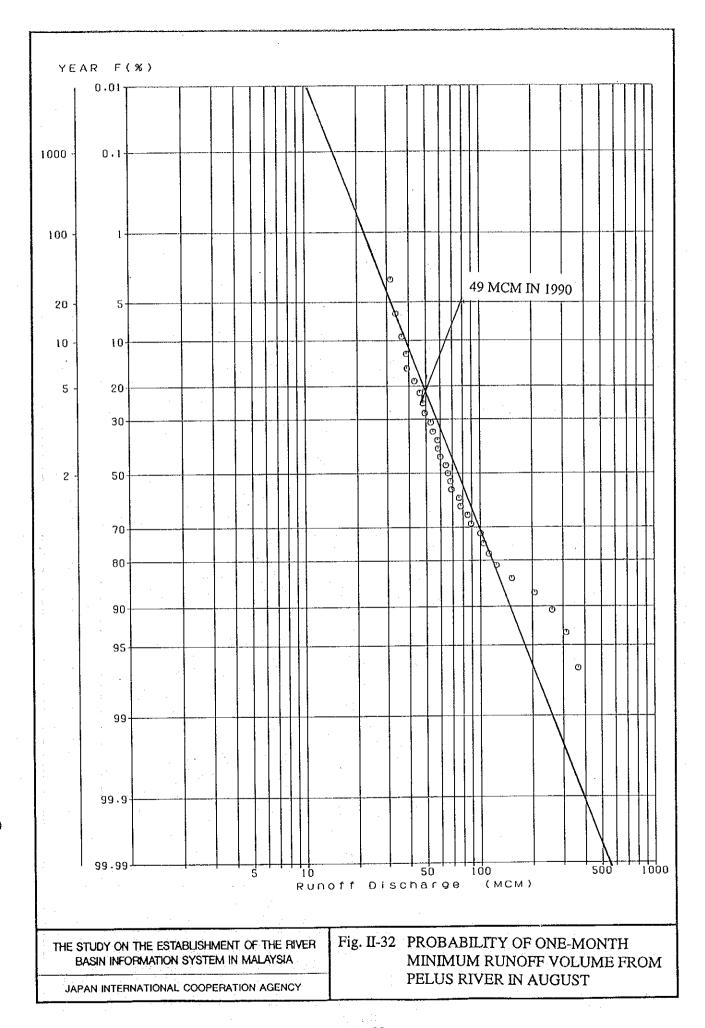
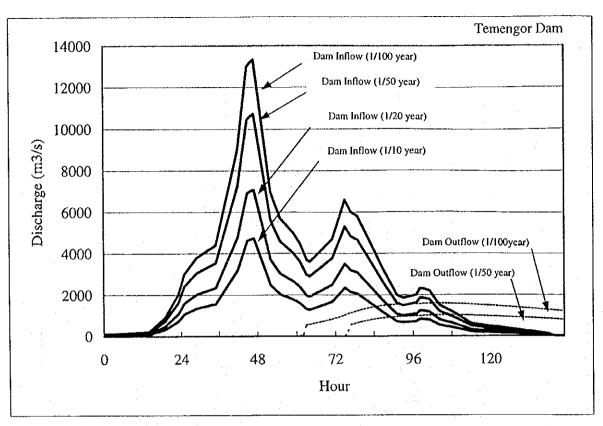


Fig. II-31 RIVER FLOW CONDITIONS DURING WATER DEFICIT IN 1990





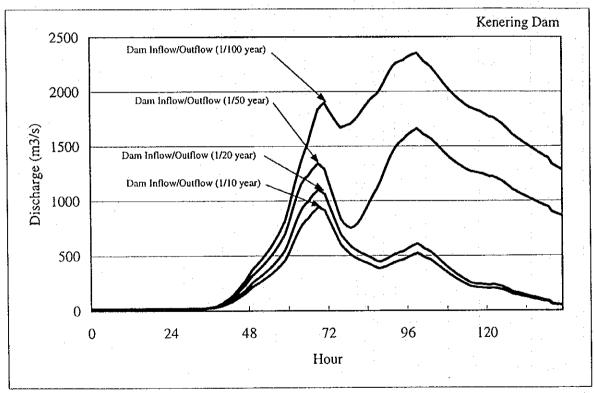
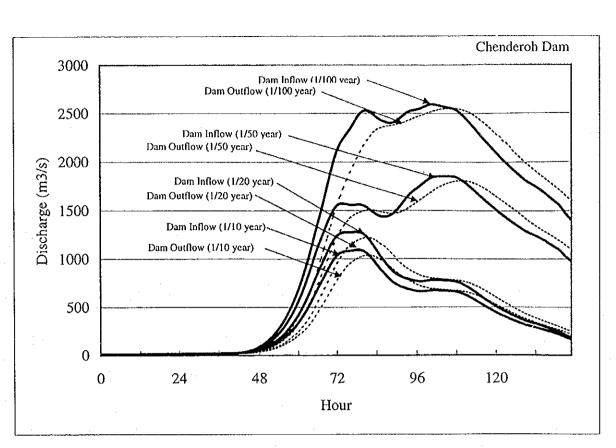


Fig. II-33 PROBABLE FLOOD HYDROGRAPH UN-(1/2) DER PRESENT DAM OPERATION (1/2)



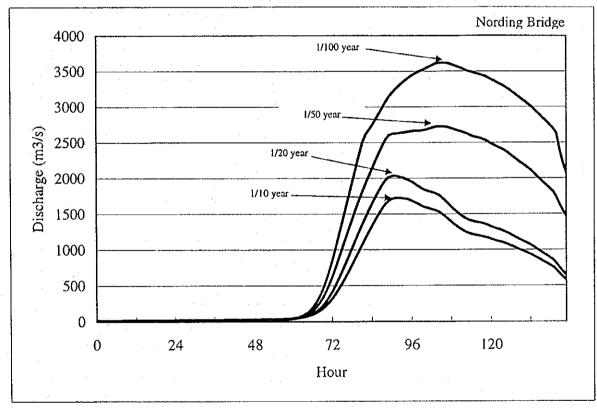
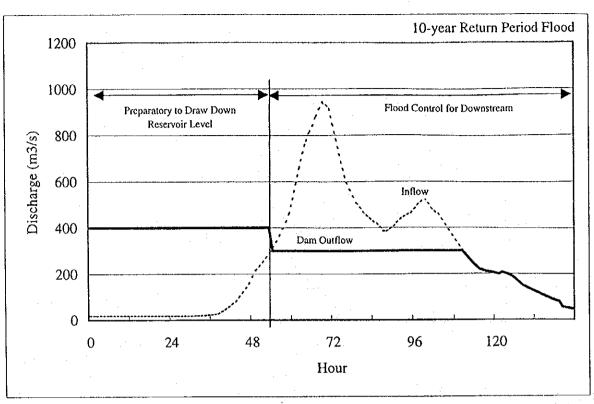
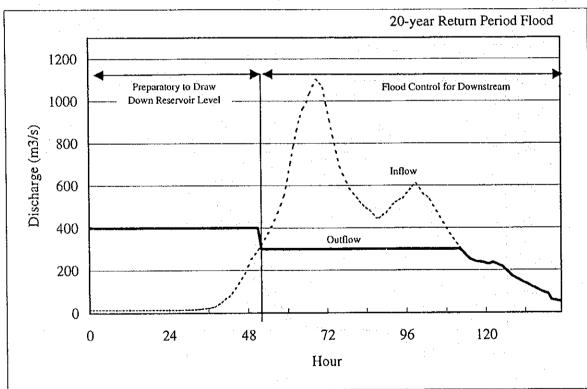


Fig. II-33 PROBABLE FLOOD HYDROGRAPH UN-(2/2) DER PRESENT DAM OPERATION (2/2)

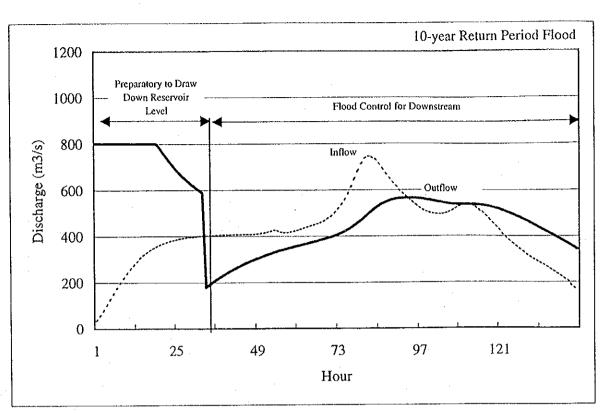




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Fig. II-34 FLOOD CONTROL BY KENERING DAM

(



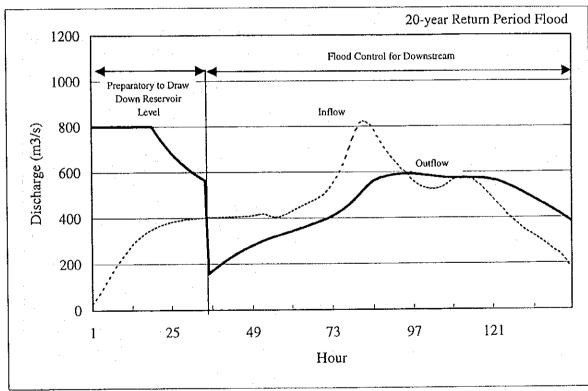
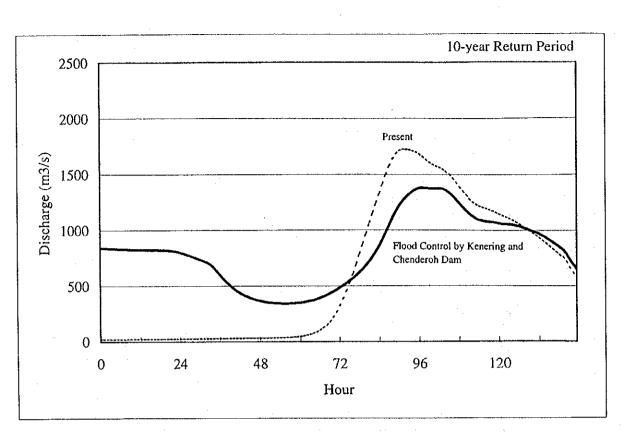
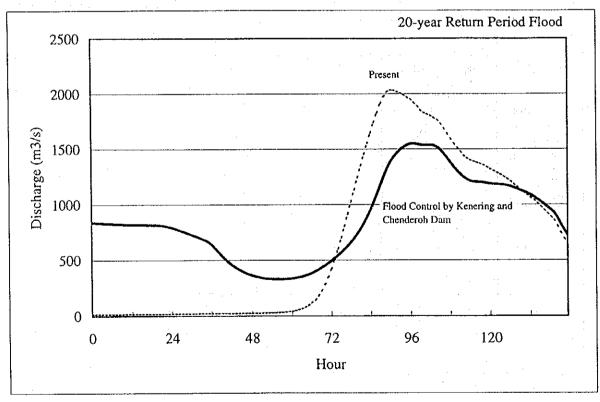


Fig. II-35 FLOOD CONTROL BY CHENDEROH DAM

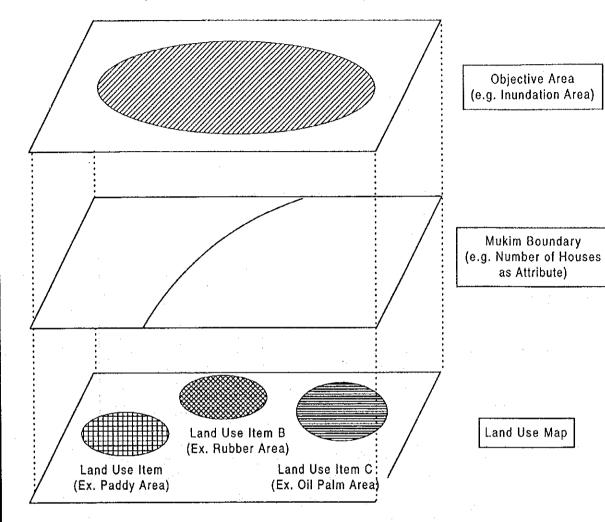




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Fig. II-36 FLOOD HYDROGRAPH AT NORDIN BRIDGE

Conceptual Schematics of GIS Overlay



Nh= Dh(1) x Am(1) + Hd(2) x Am(2) + · · · · · · + Hd(i) x Am(i) + · · · · · · · Dn = Nh x Dhf x Vh

 $Da = Aa(1) \times Daf(1) \times Va(1) + Aa(2) \times Daf(2) \times Va(2) + \cdots + Aa(i) \times Daf(i) \times Va(i) + \cdots$

where Nh : Total number of house in Flood Inundation Area

Hd(i): Housing Density in Mukim i

Am(i): Area of Mukim i

Dn : Total housing damage value
Dhf : Damage factor of house

Vh : Unit value of house
Da : Agricultural damage

Aa : Area of Agricultural land

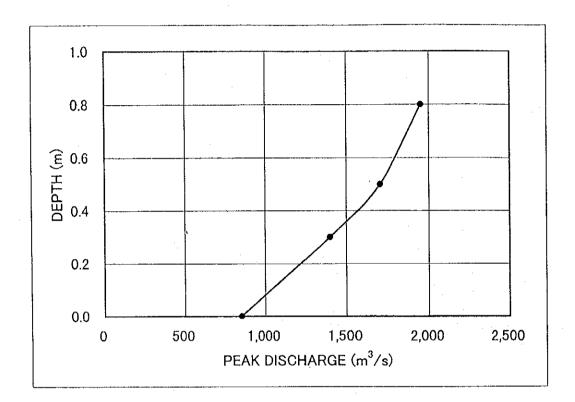
Daf : Damage factor of agricultural crop

Va : Unit value of agricultural crop

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Fig. II-37 CONCEPTUAL SCHEMATICS ON ES-TIMATION OF POTENTIAL FLOOD DAMAGE



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Fig. II-38 RELATIONSHIP BETWEEN PEAK DIS-CHARGE AT NORDING BRIDGE AND MAX. FLOOD INUNDATION DEPTH