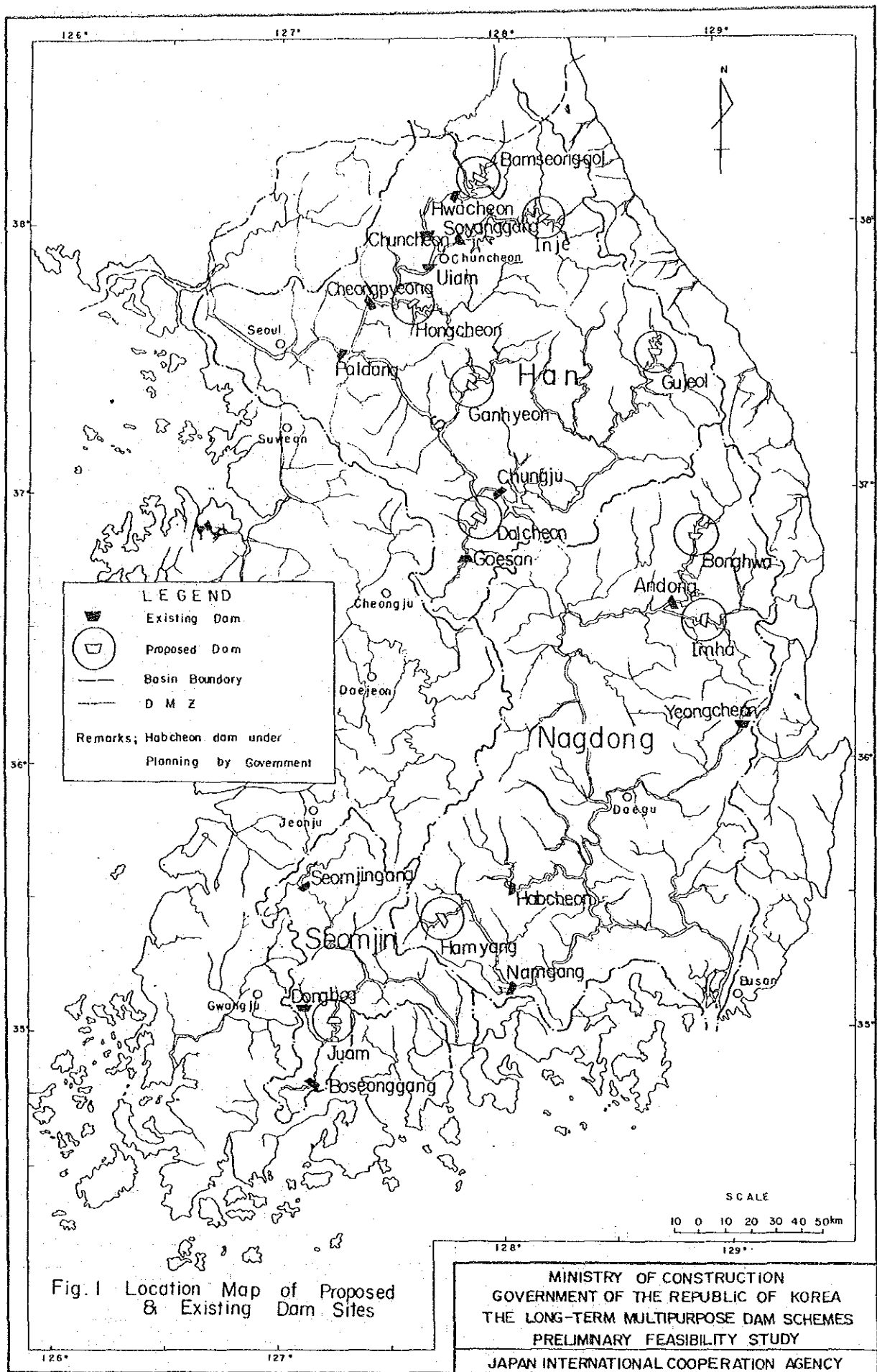
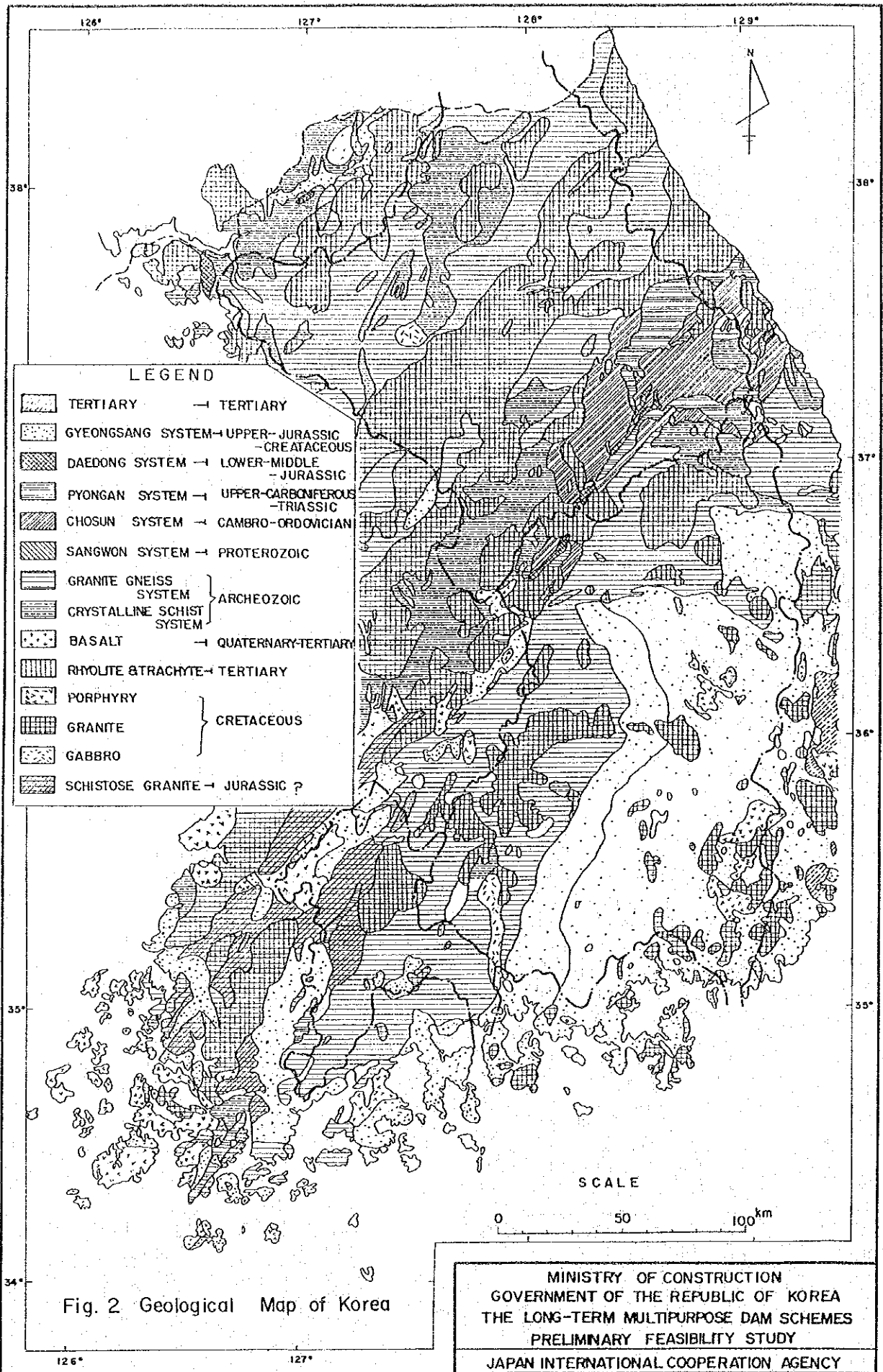


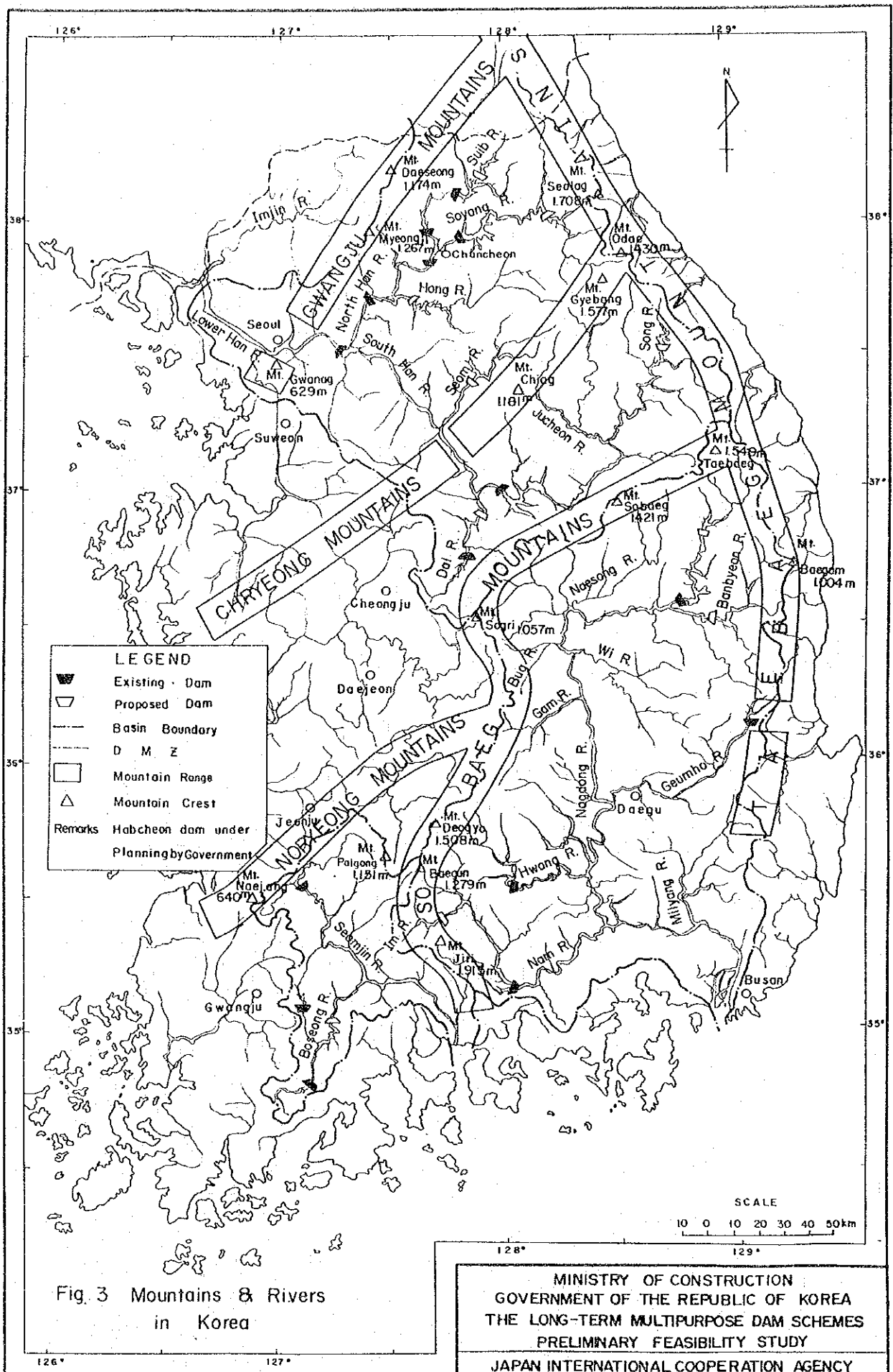
表-92 住岩ダム計画本流案の
貯水池操作法検討結果

貯水池操作法	一定放流方式	中間型放流方式	需要対応放流方式
洪水時満水位 (標高 m)	121	121	112
常時満水位 (標高 m)	120	120	111
最低水位 (標高 m)	85	85	85
有効貯水容量 (百万 m^3)	780	780	448
洪水調節容量 (百万 m^3)	48	48	30
放水量 (百万 m^3)	559	553	417
純供給水量 (毎秒 m^3)	17.7	24.6	27.2
常時使用水量 (毎秒 m^3)	17.7	16.4	1.2
最大使用水量 (毎秒 m^3)	23.6	21.9	—
有効落差 (m)	39.4	39.4	—
発電設備容量 (MW)	8	7	—
常時ピーク出力 (MW)	3.2	3.2	—
財務建設費 (百万ドル)			
— 補償費	88.84	88.84	74.81
— ダム	61.15	61.15	51.26
— 発電設備	6.76	6.69	—
合計	169.41	156.68	126.08
用水供給目標達成年	1993	2005	2009
有効発電出力 (MW)	5.5	5.3	—
年間発生電力量 (GWh)	58	56	—
年等価便益 (百万ドル)			
— 都市・工業用水供給	12.60	17.26	18.32
— 農業用水供給	0.69	0.88	0.92
— 洪水調節	0.21	0.21	0.14
— 発電	1.70	1.64	—
— 農産物喪失額	-1.88	-1.88	-1.57
合計	13.32	18.11	17.81
年等価費用 (百万ドル)			
— ダム	8.75	8.75	7.61
— 発電施設	0.83	0.82	—
合計	9.58	9.57	7.61
便益 - 費用	3.74	8.54	10.20
経済的内部収益率 (%)	10.8	12.9	14.5

註：純供給水量はダムサイトへの流入量が無いものと仮定した不足水量に基づいて算定した。







LEGEND

- Existing Dam
- Proposed Dam
- Basin Boundary
- D M Z
- Mountain Range
- Mountain Crest

Remarks Habcheon dam under Planning by Government

Fig. 3 Mountains & Rivers in Korea

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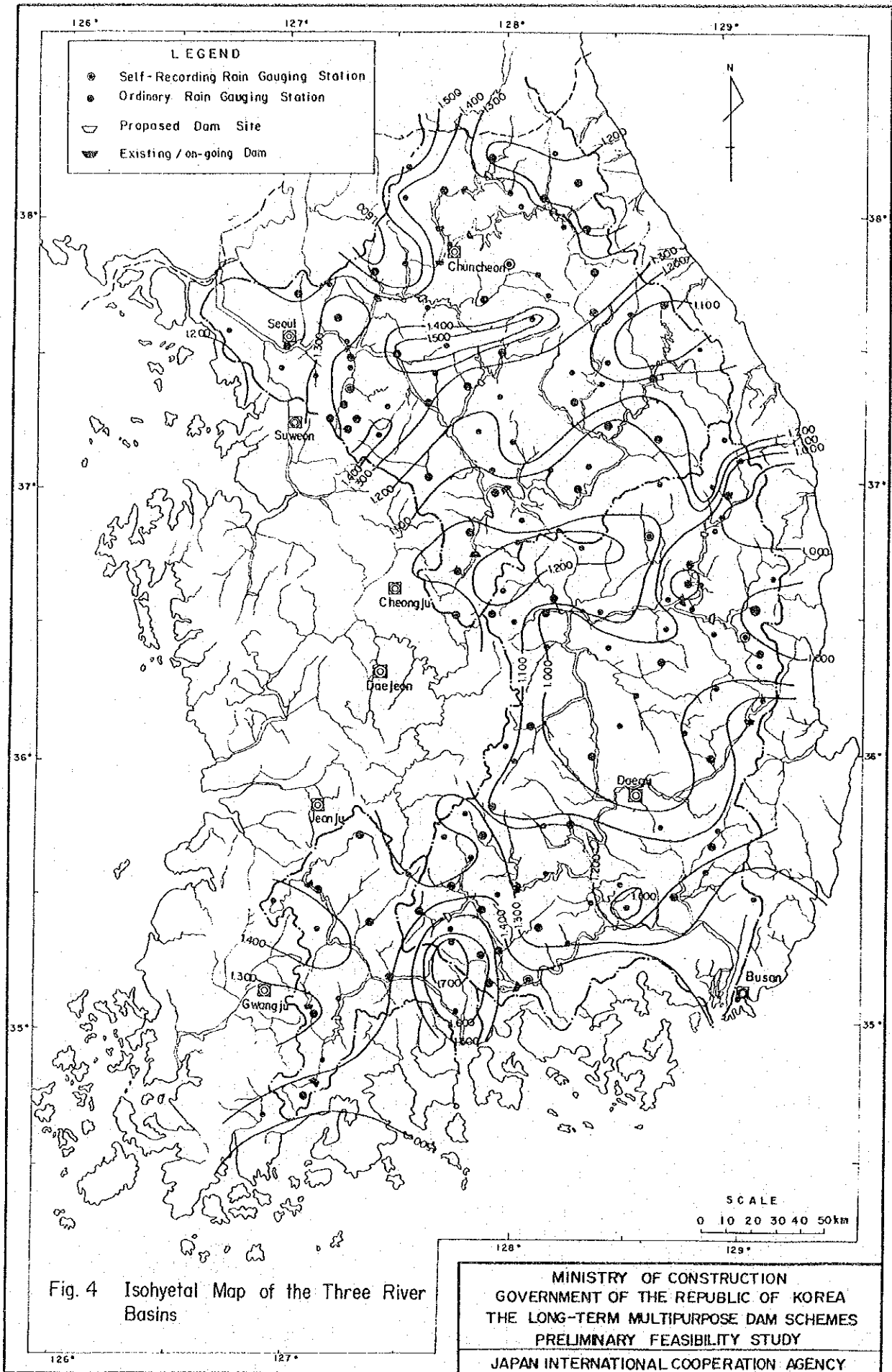
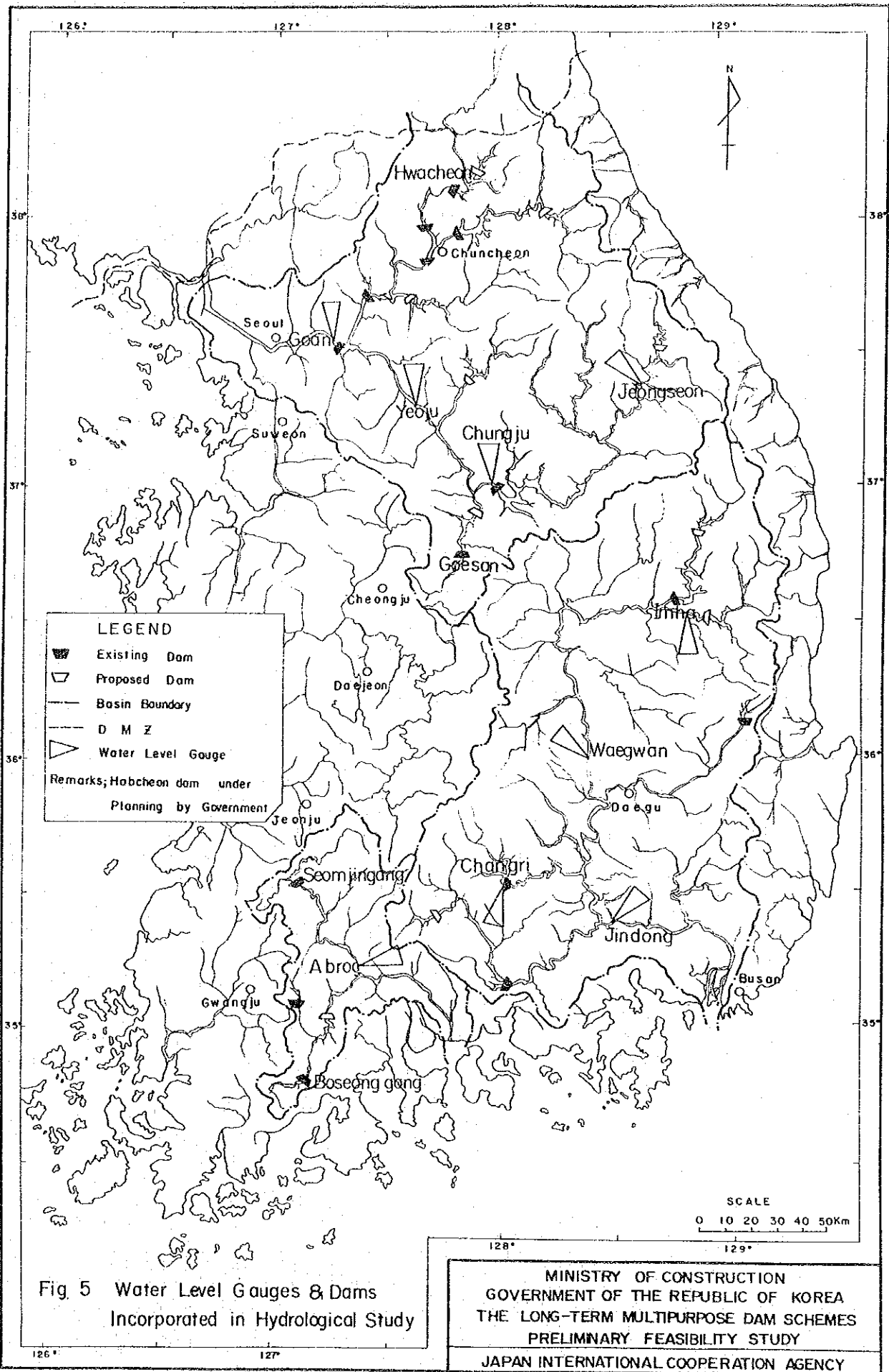
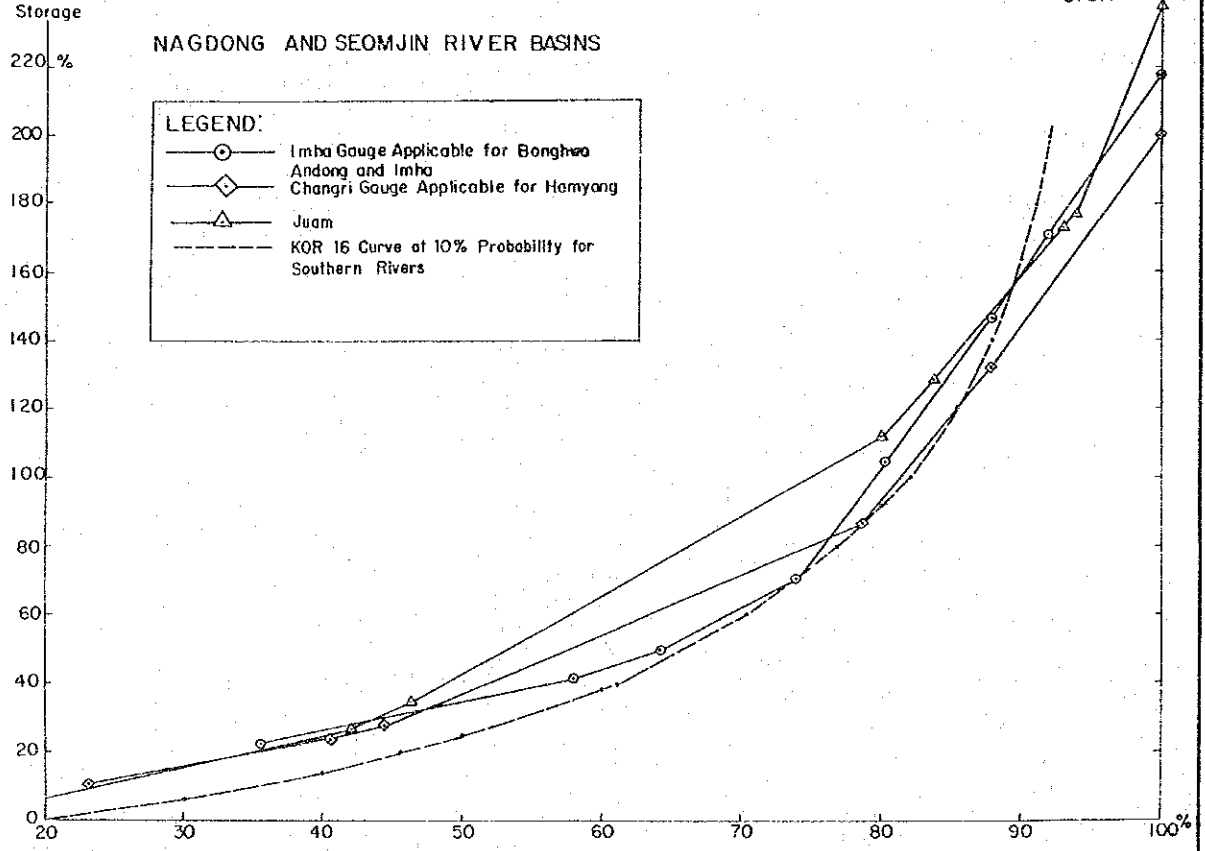
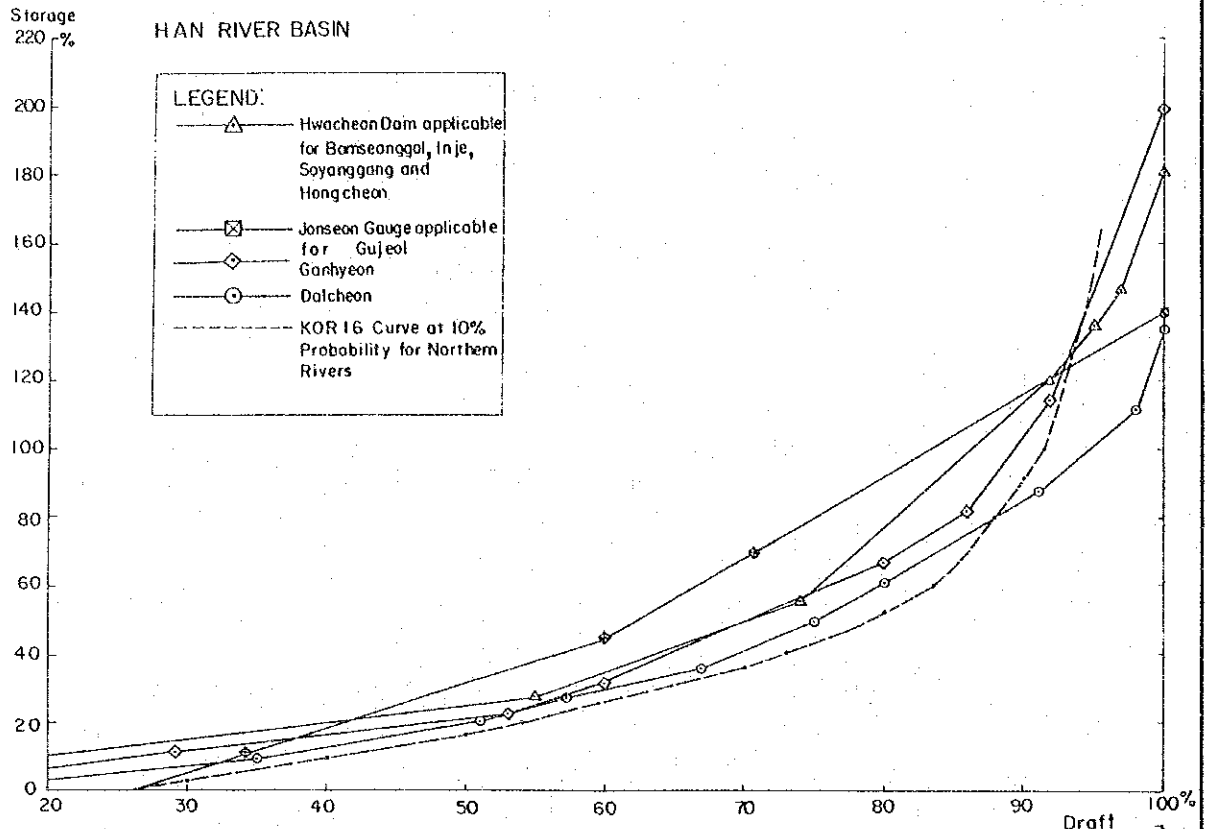


Fig. 4 Isohyetal Map of the Three River Basins

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Remarks , Storage = Active Storage Capacity/Annual Inflow
 Draft = Regulated Outflow/Annual Inflow

Fig.6 Non-dimensional Storage-Draft Curve

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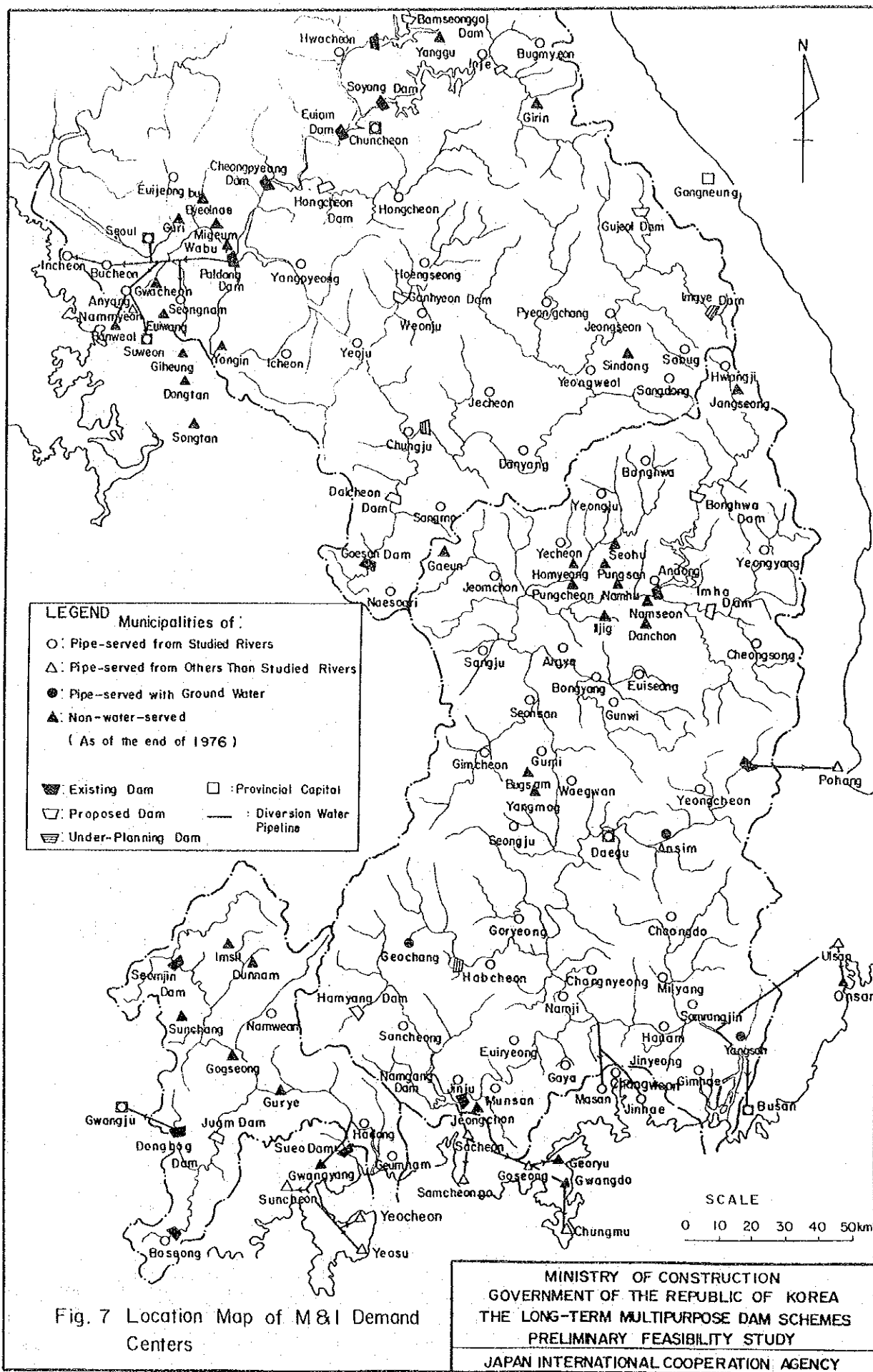
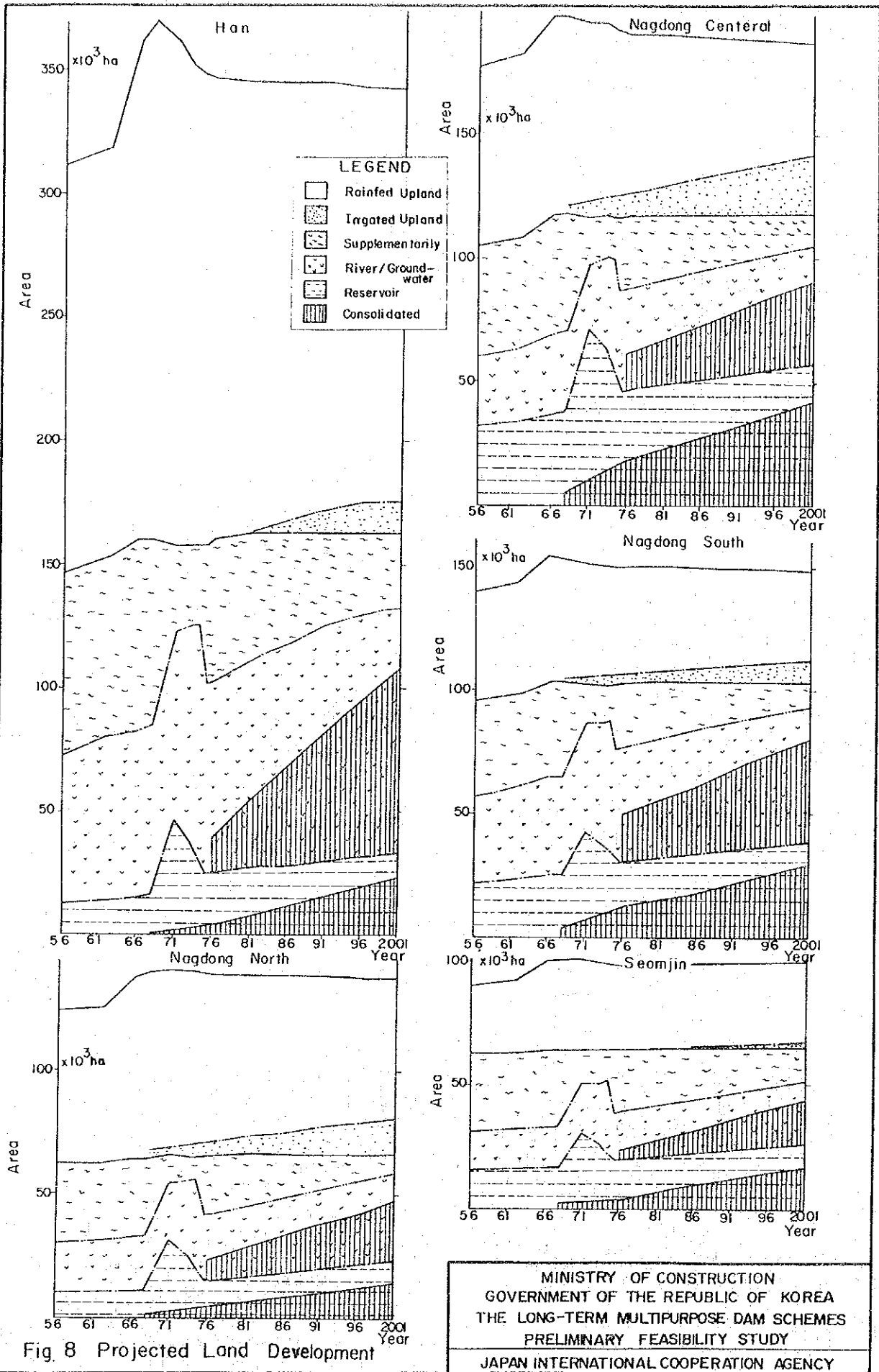
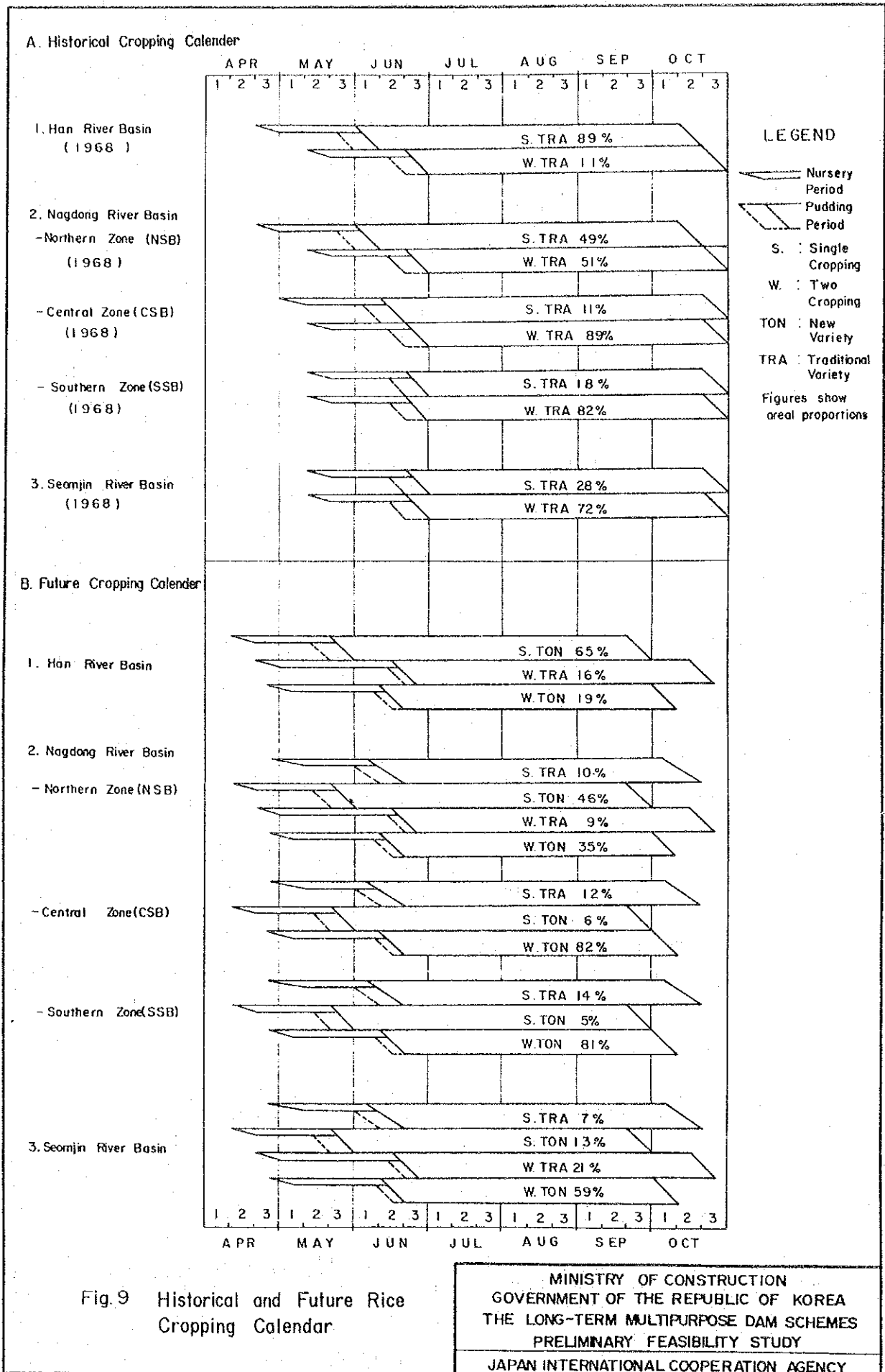


Fig. 7 Location Map of M & I Demand Centers





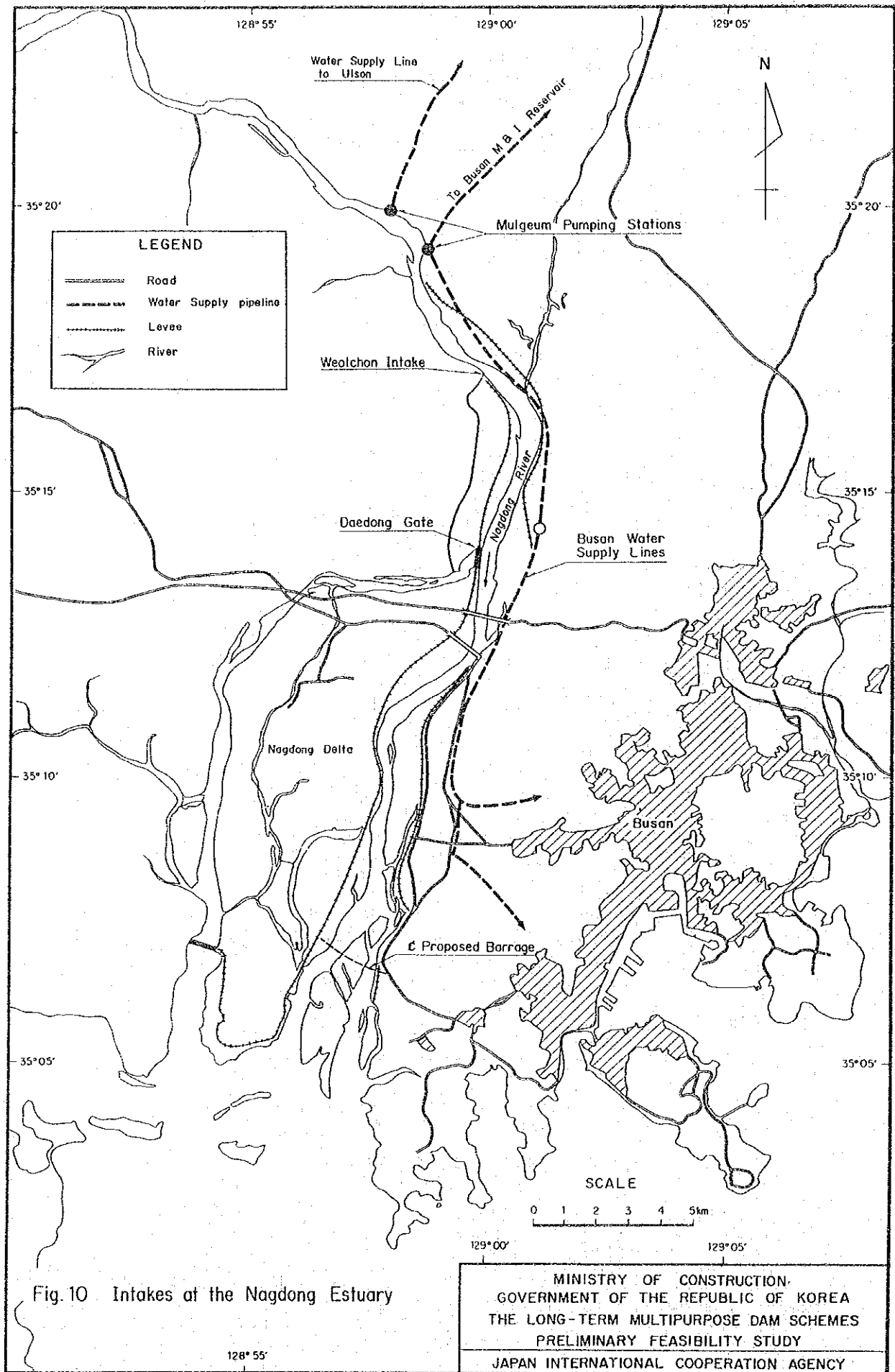


Fig. 10 Intakes at the Nagdong Estuary

128° 55'

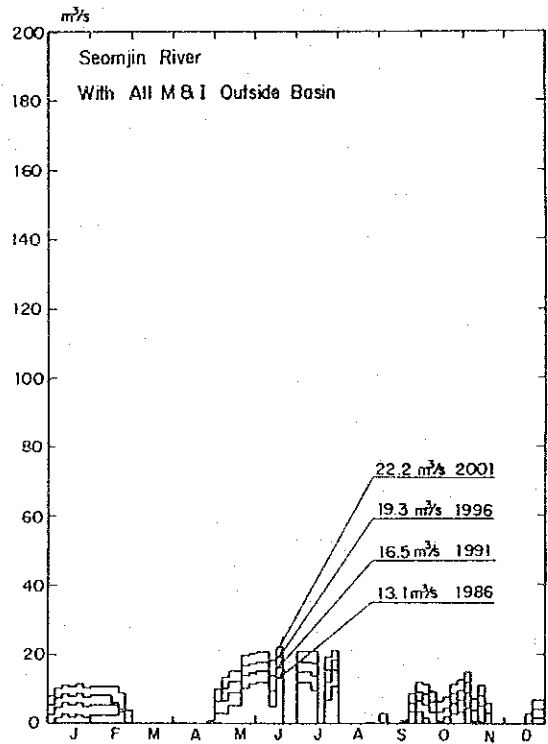
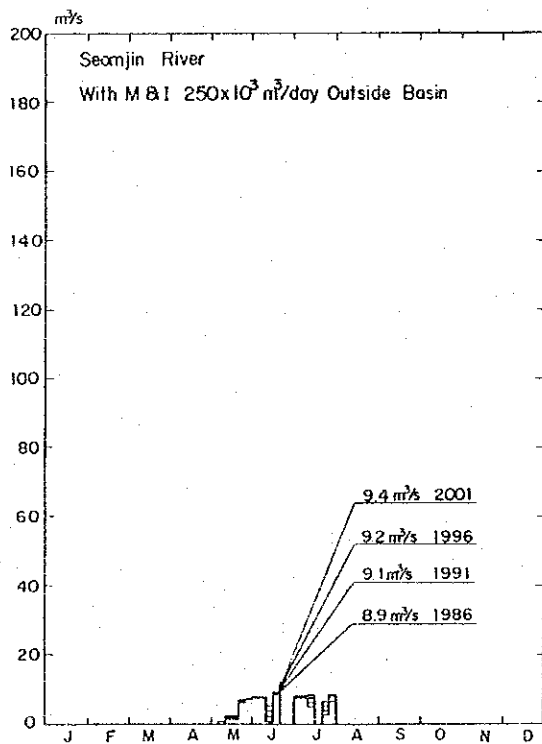
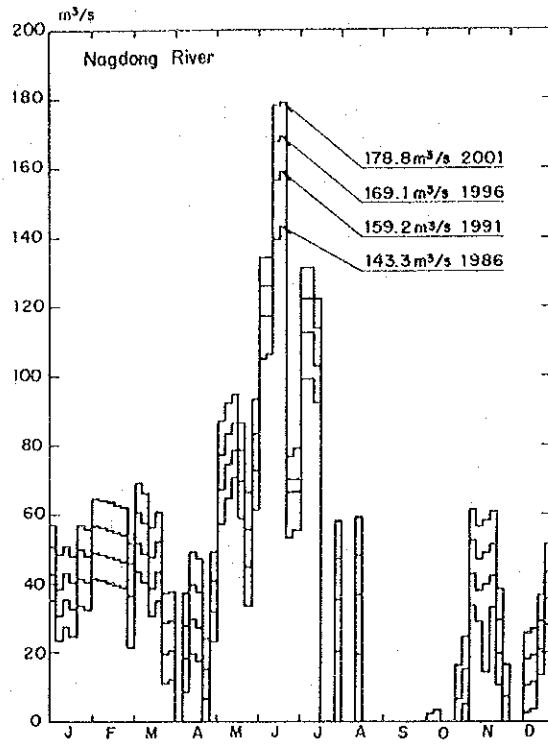
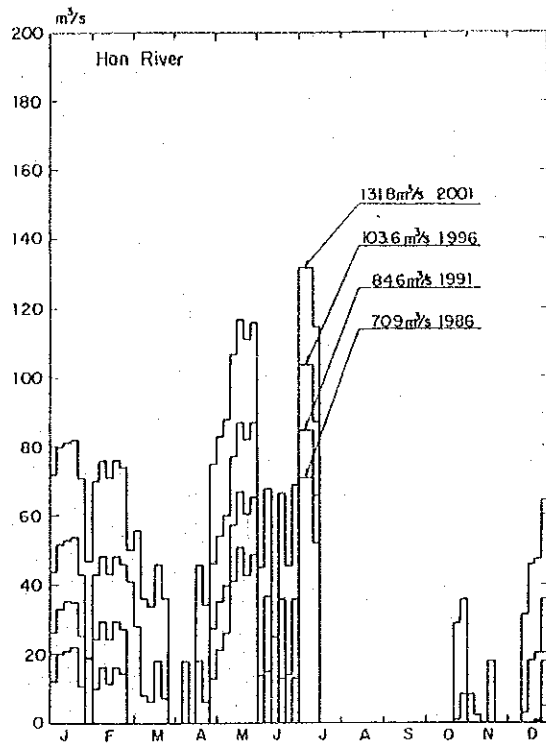


Fig.11 Estimated Water Deficit

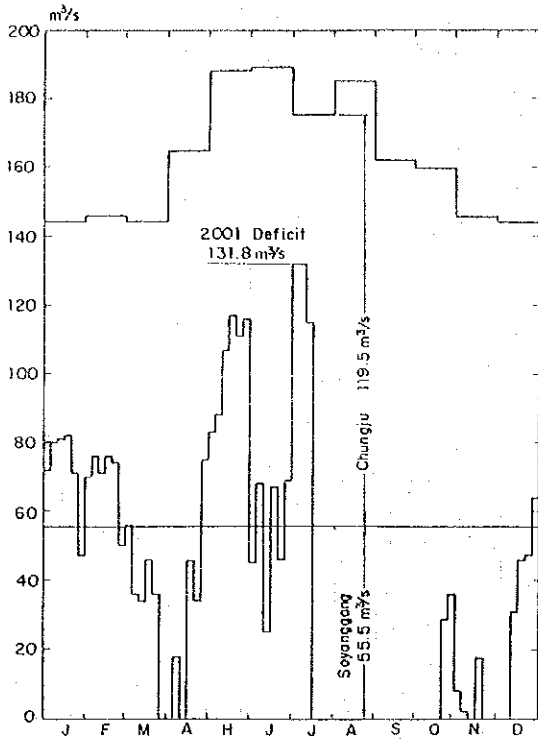


Fig. 12 Supply & Deficit in the Han River

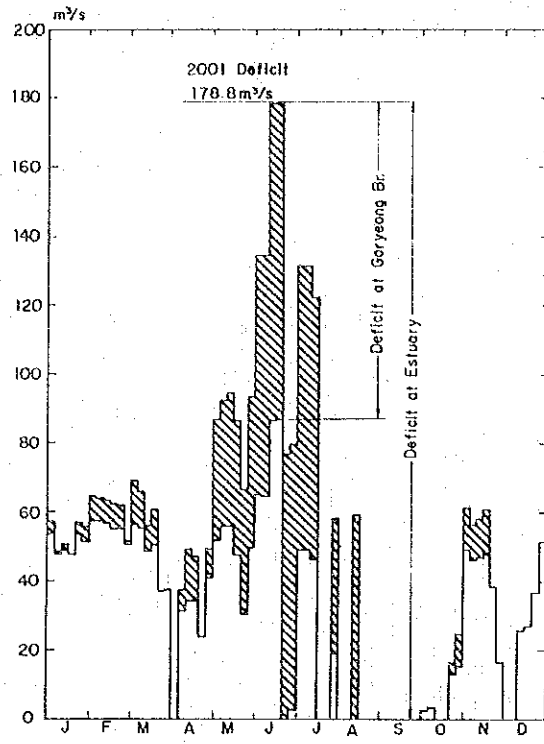


Fig. 13 Deficits at Goryeong Bridge & Estuary

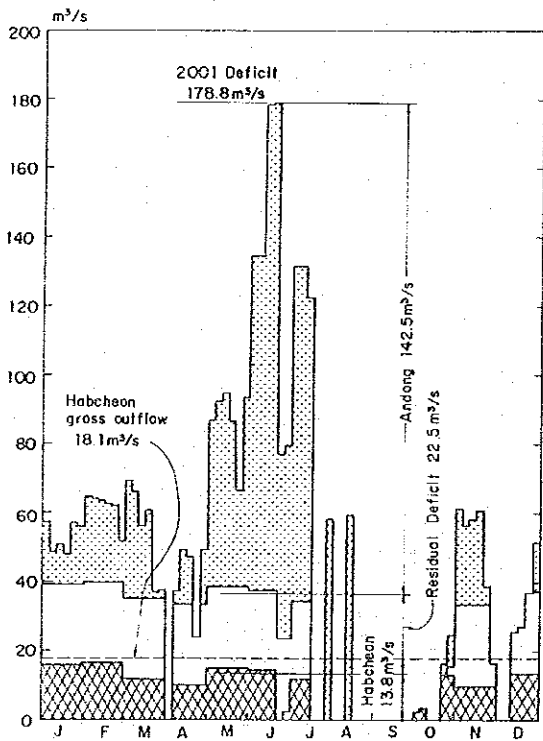


Fig. 14 Supply & Deficit in the Nagdong River (with Habcheon Dam)

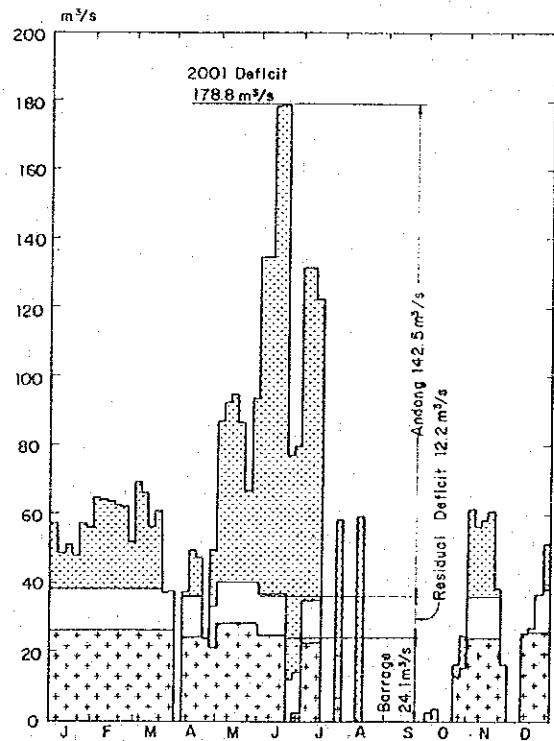
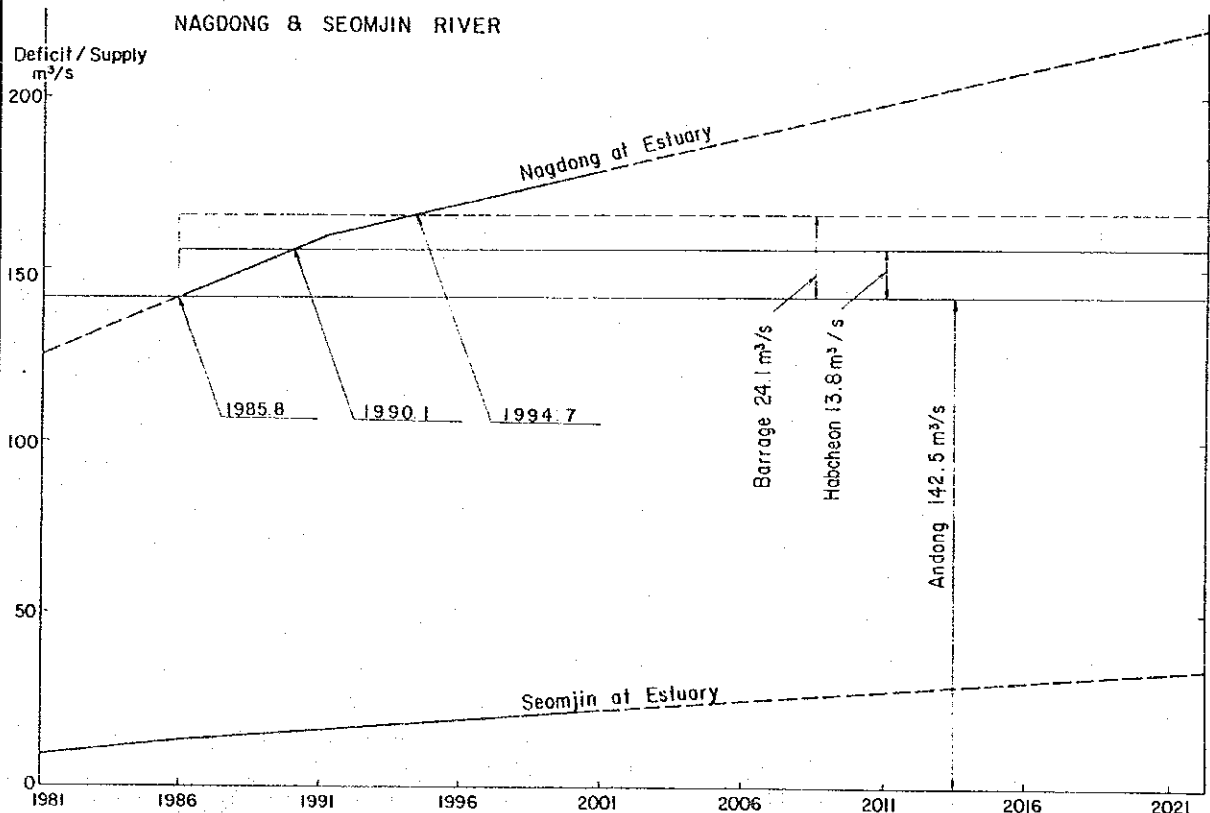
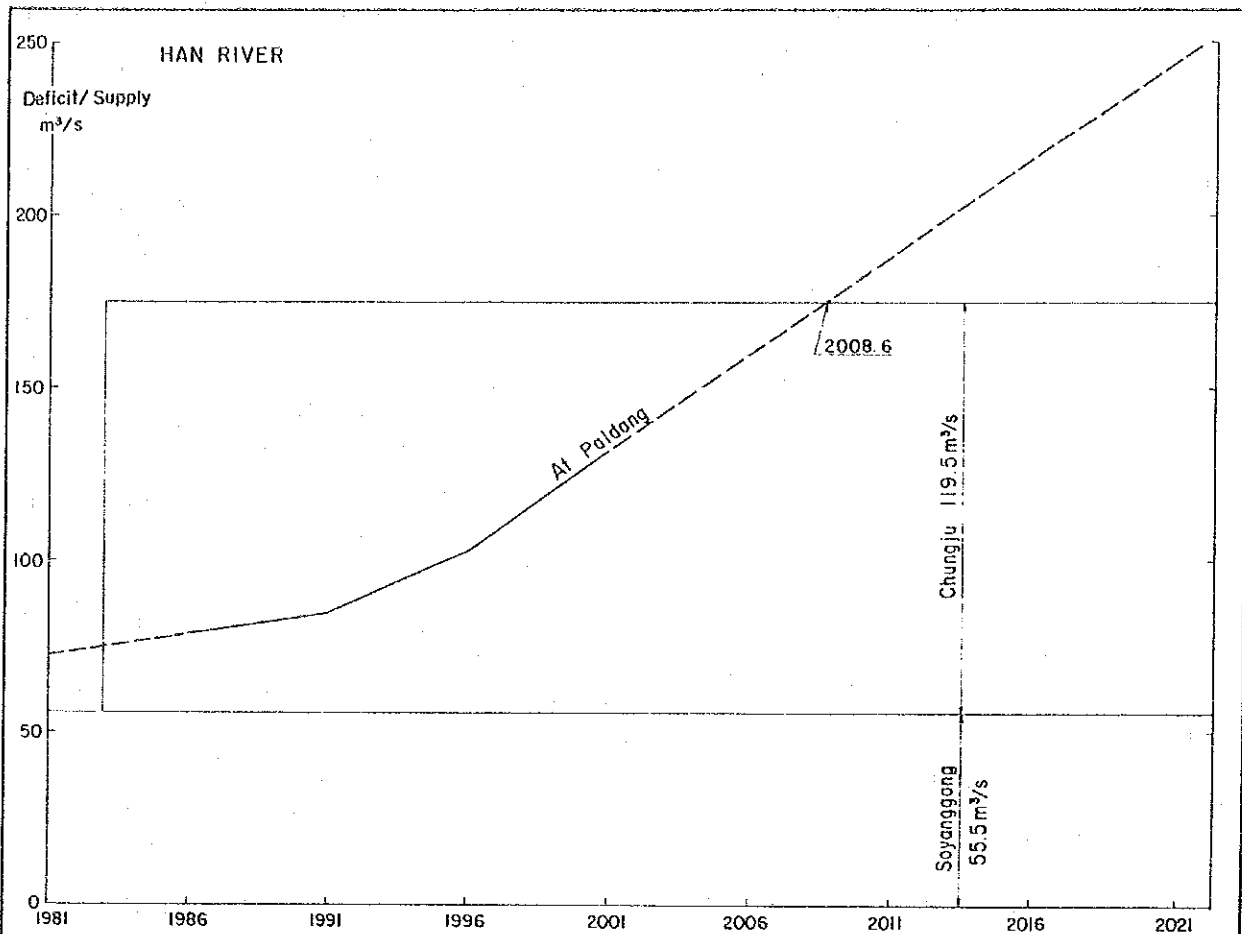


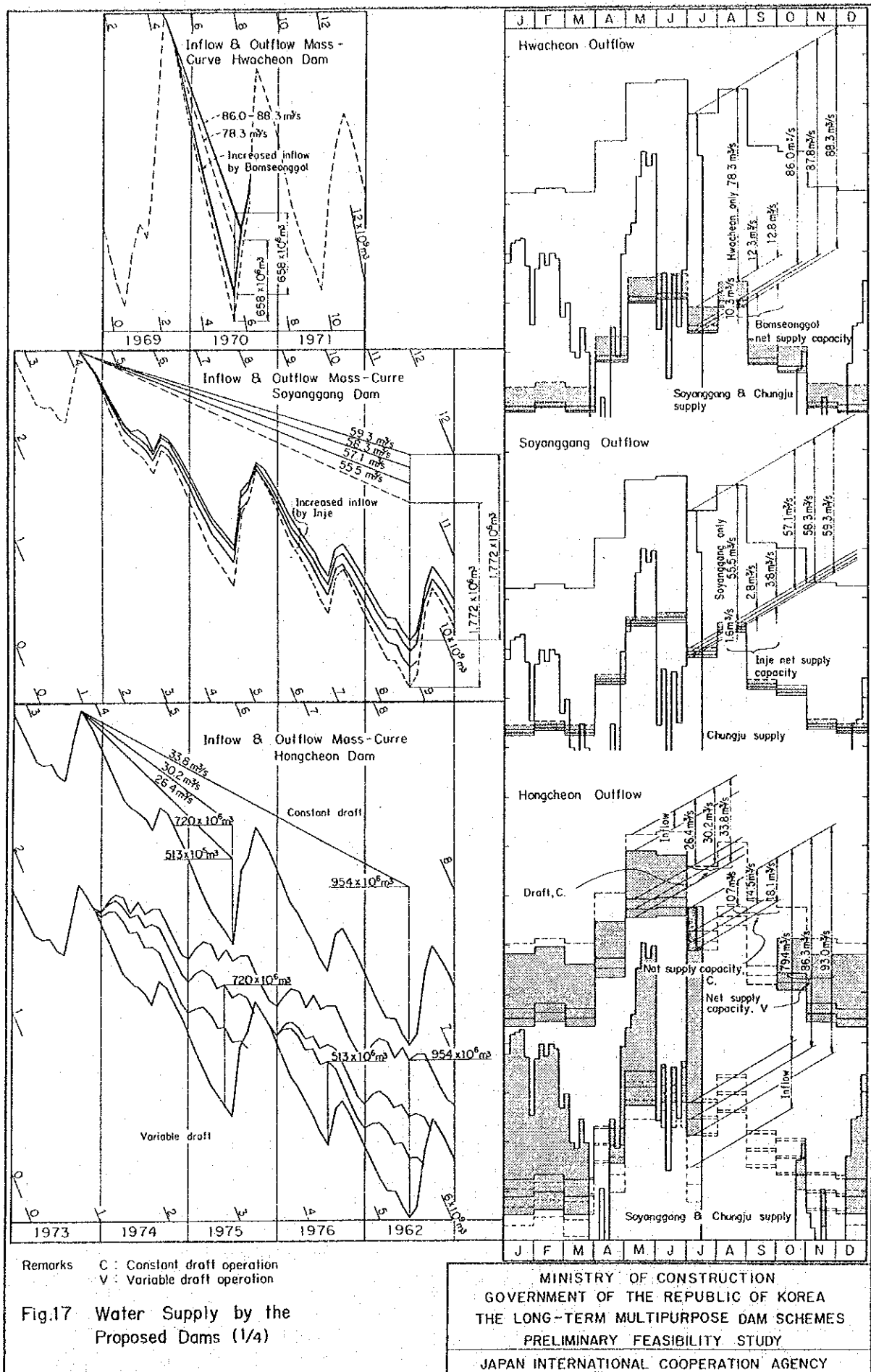
Fig. 15 Supply & Deficit in the Nagdong River (with Estuary Barrage)

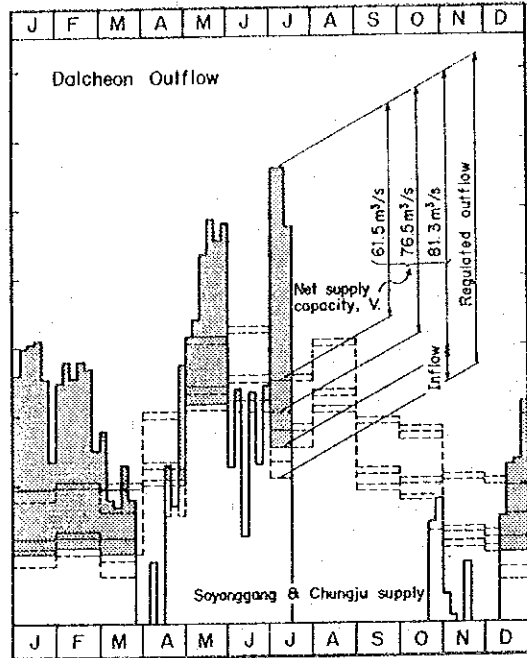
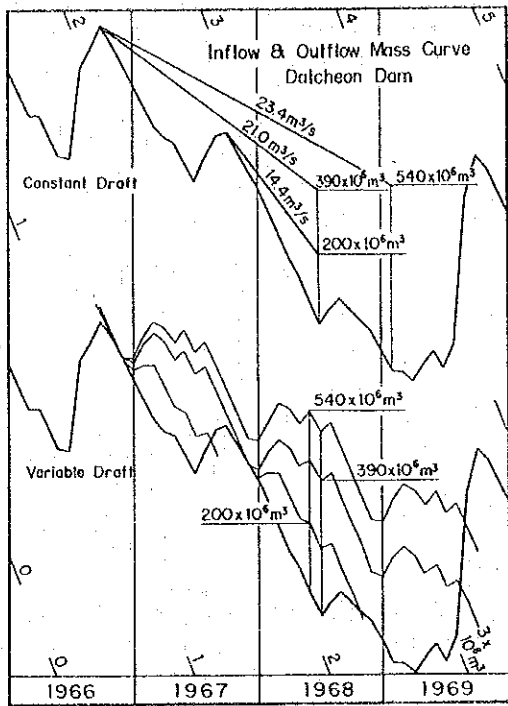


Remarks: Water deficit calculated assuming no outflow from the Soyonggang and Chungju dams for the Han river and from the Andong dam for the Nagdong river, respectively.

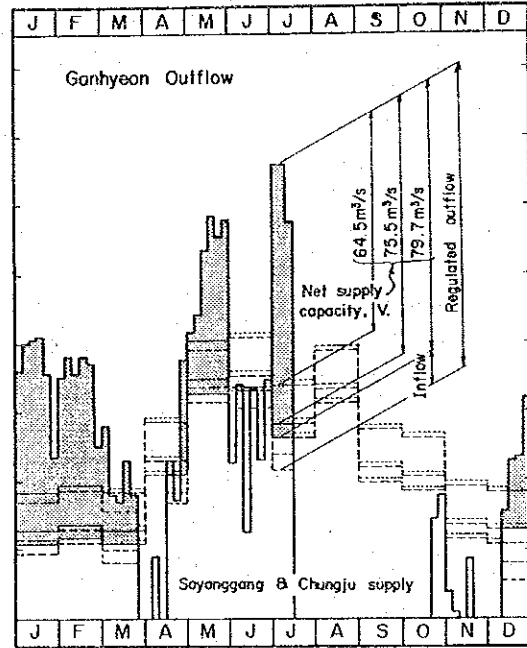
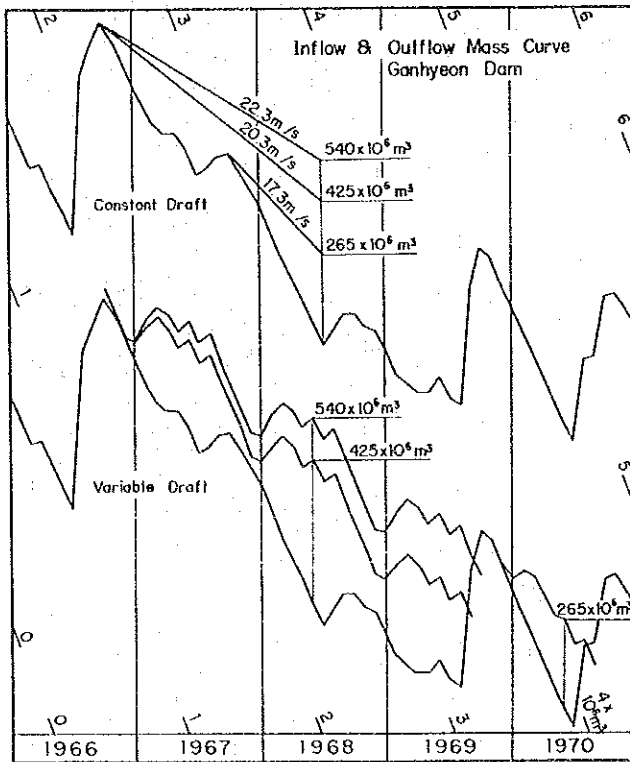
Fig.16 Water Deficit Build-up Curve

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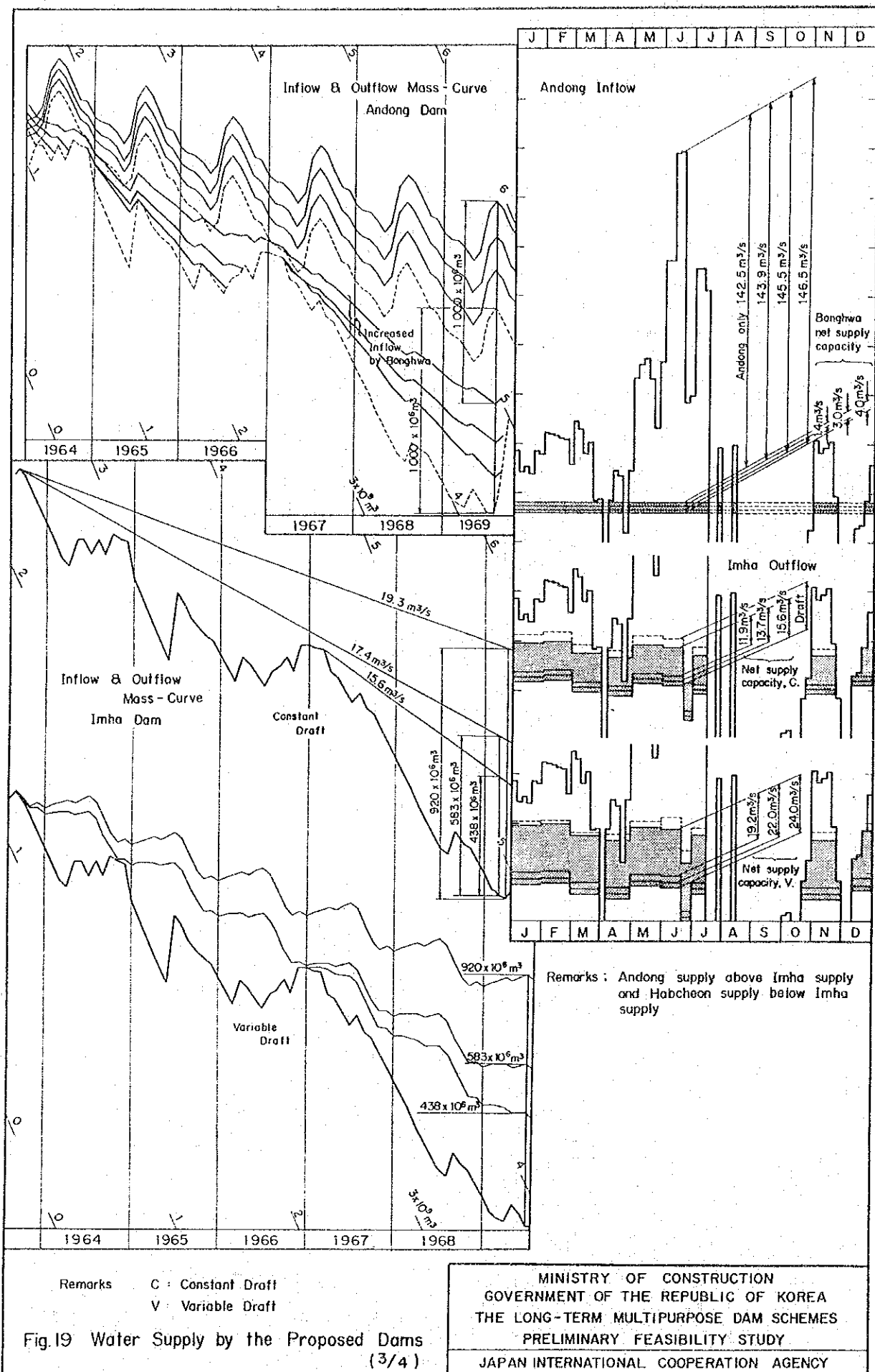
Remarks: Constant draft not shown

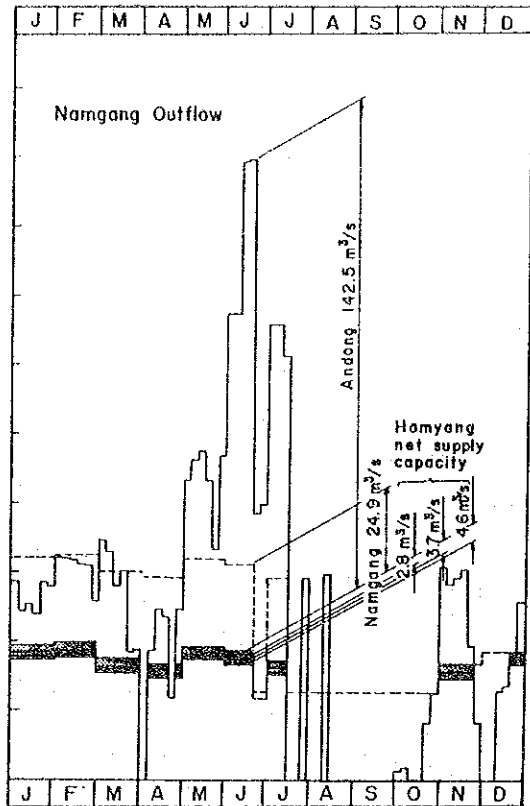
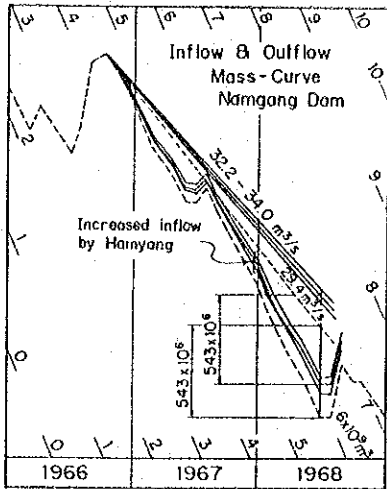


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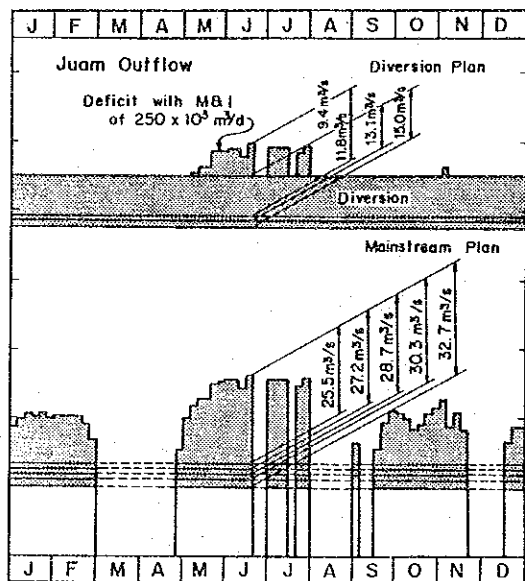
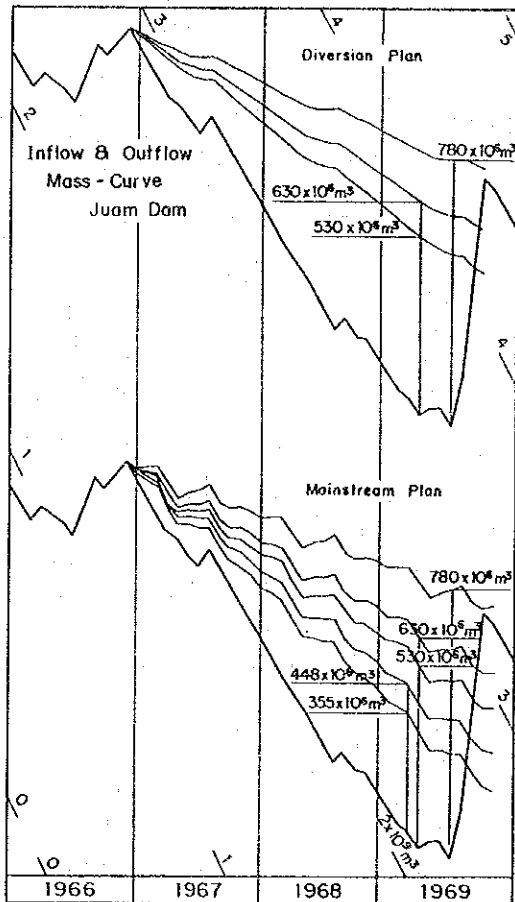
Remarks C: Constant Draft Operation
V: Variable Draft Operation

Fig.18 Water Supply by the Proposed Dams (2/4)





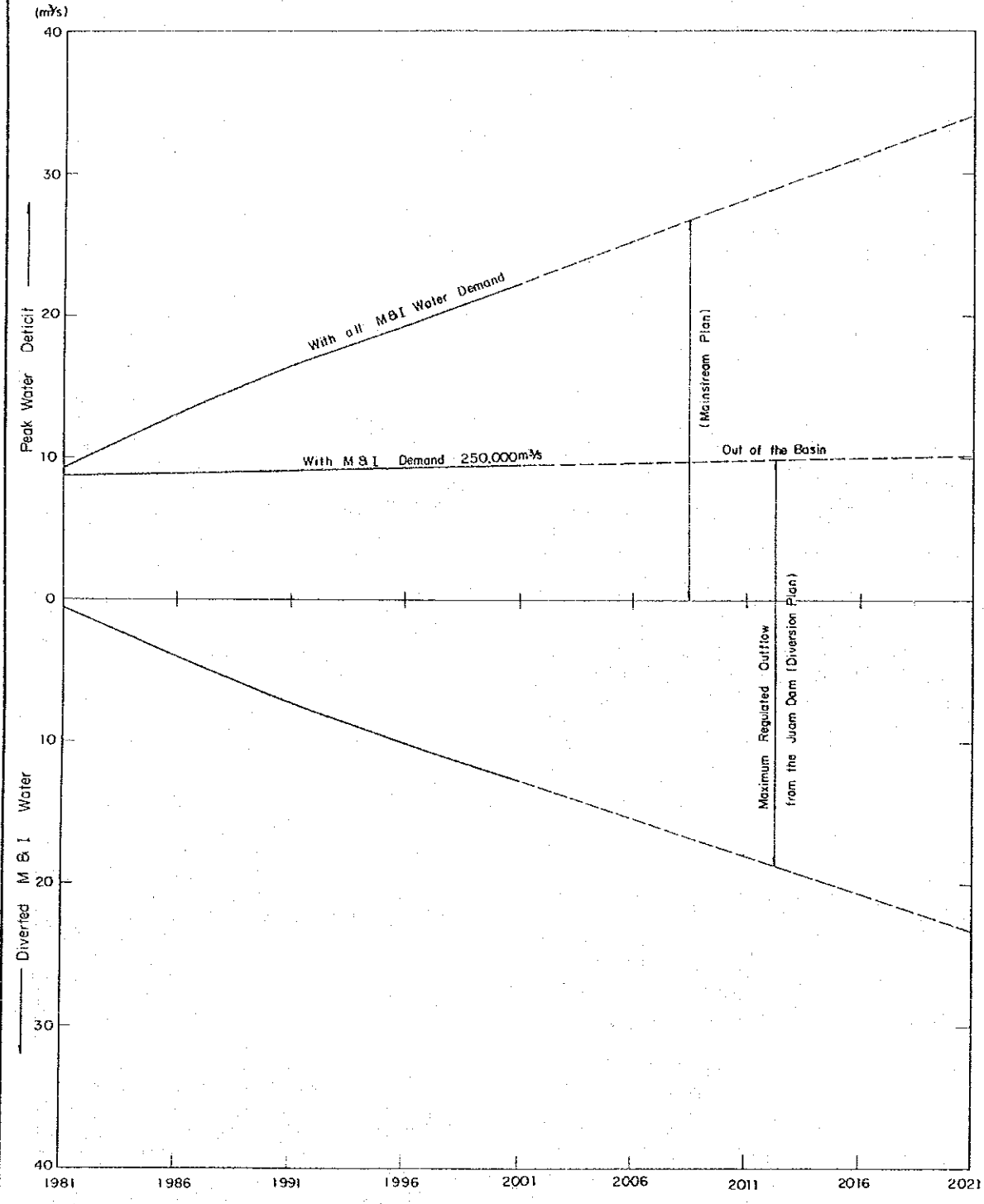
Remarks ; Habcheon supply below Namgang supply



Remarks ; Deficit calculated assuming shut-down at Juam site

Remarks C : Constant Draft Operation
V : Variable Draft Operation

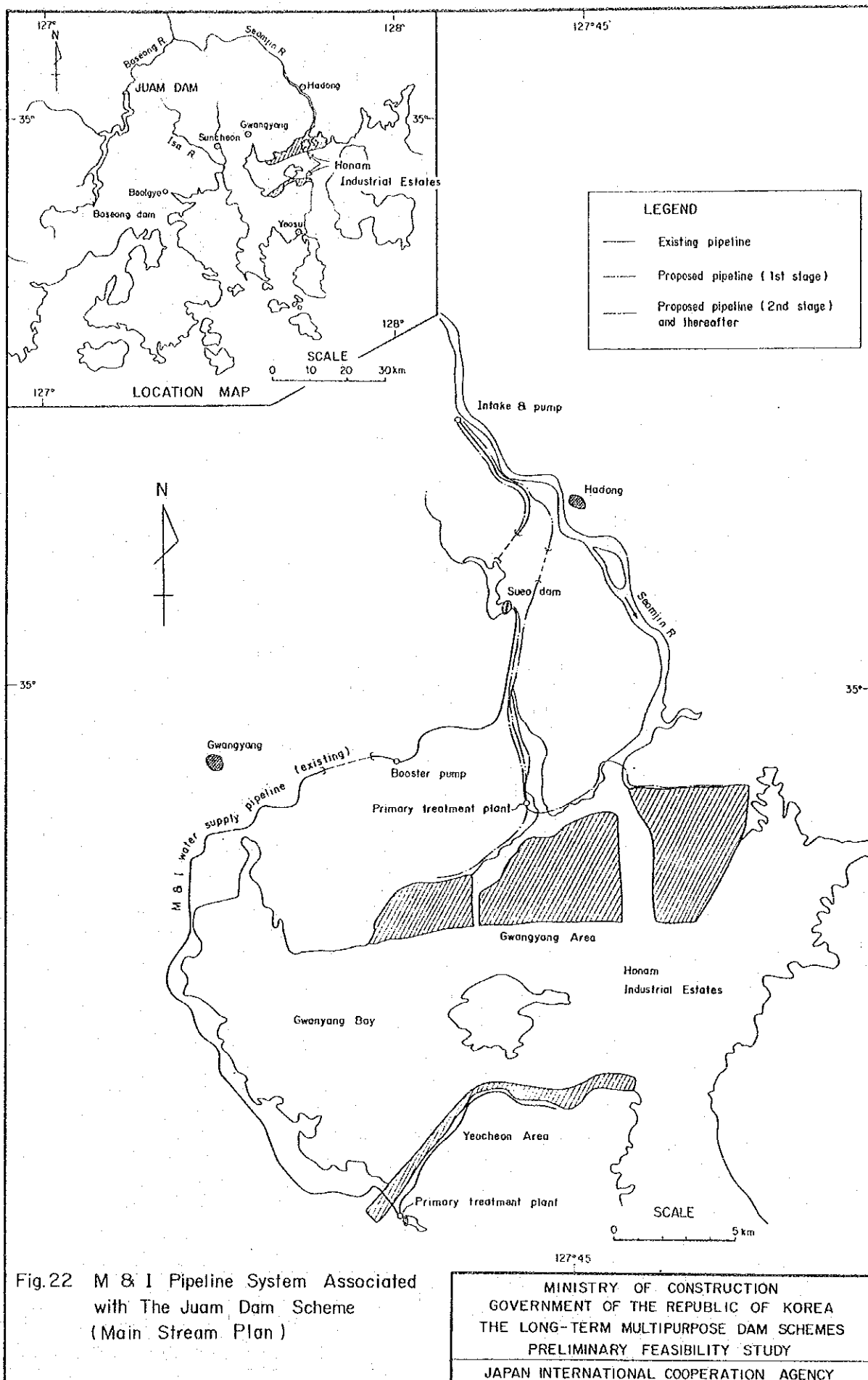
Fig. 20 Water Supply by the Proposed Dams (4/4)



Remarks: Deficit estimated assuming the shut-down by the Juam Dam

Fig 21 Water Deficit Build-Up Curve for the Juam Dam

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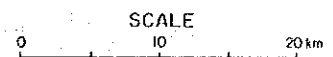
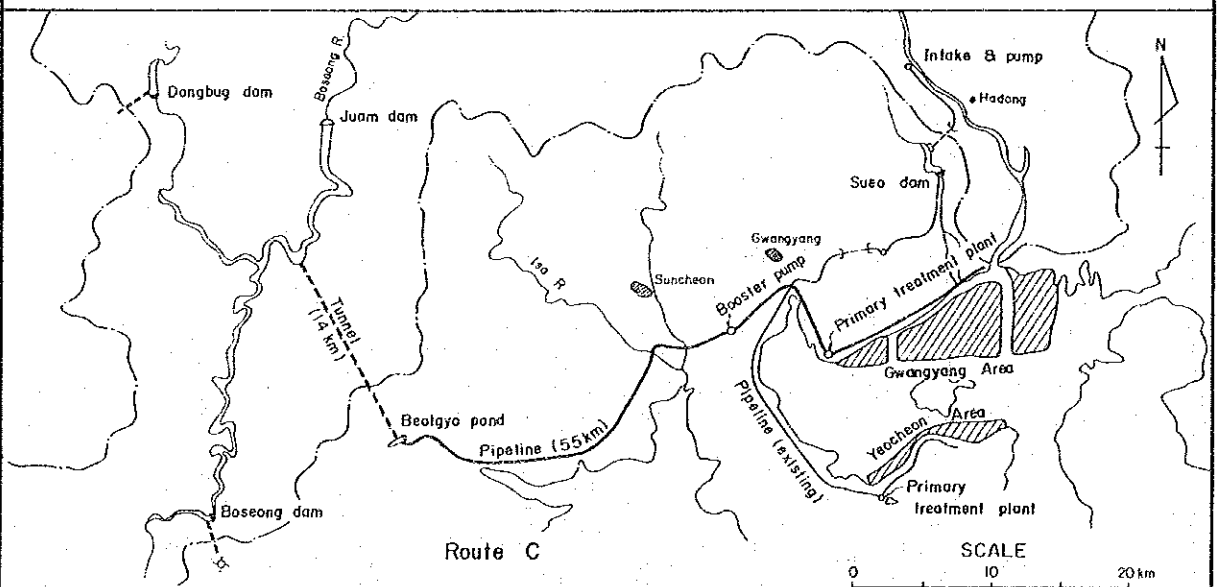
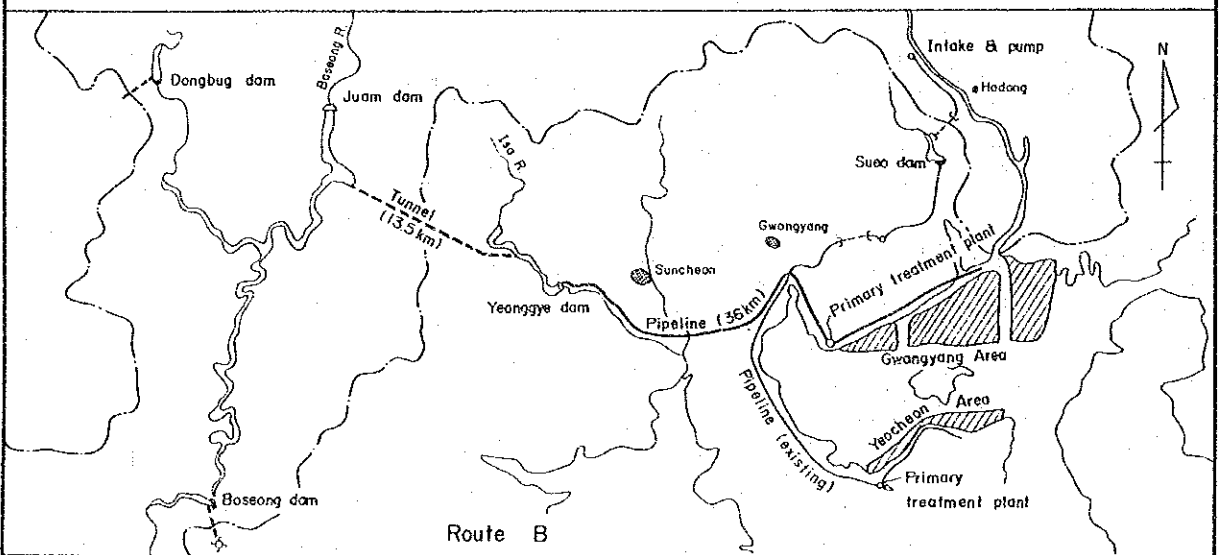
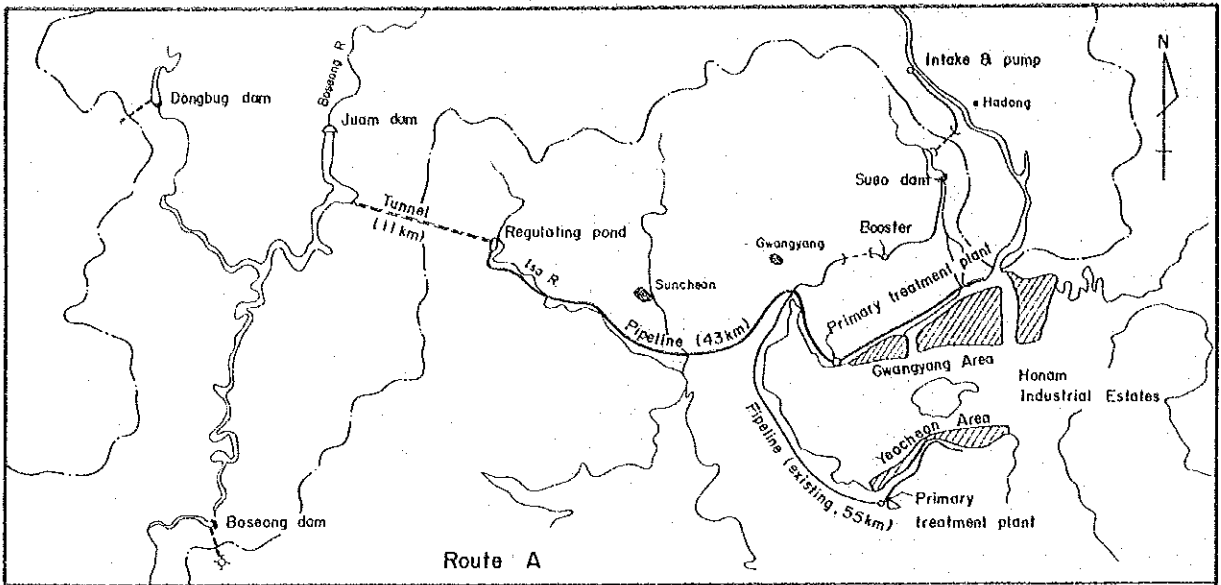


Fig. 23 Outline of Alternative M & I Pipeline Systems Associated with the Juam Dam Scheme (Diversion plan)

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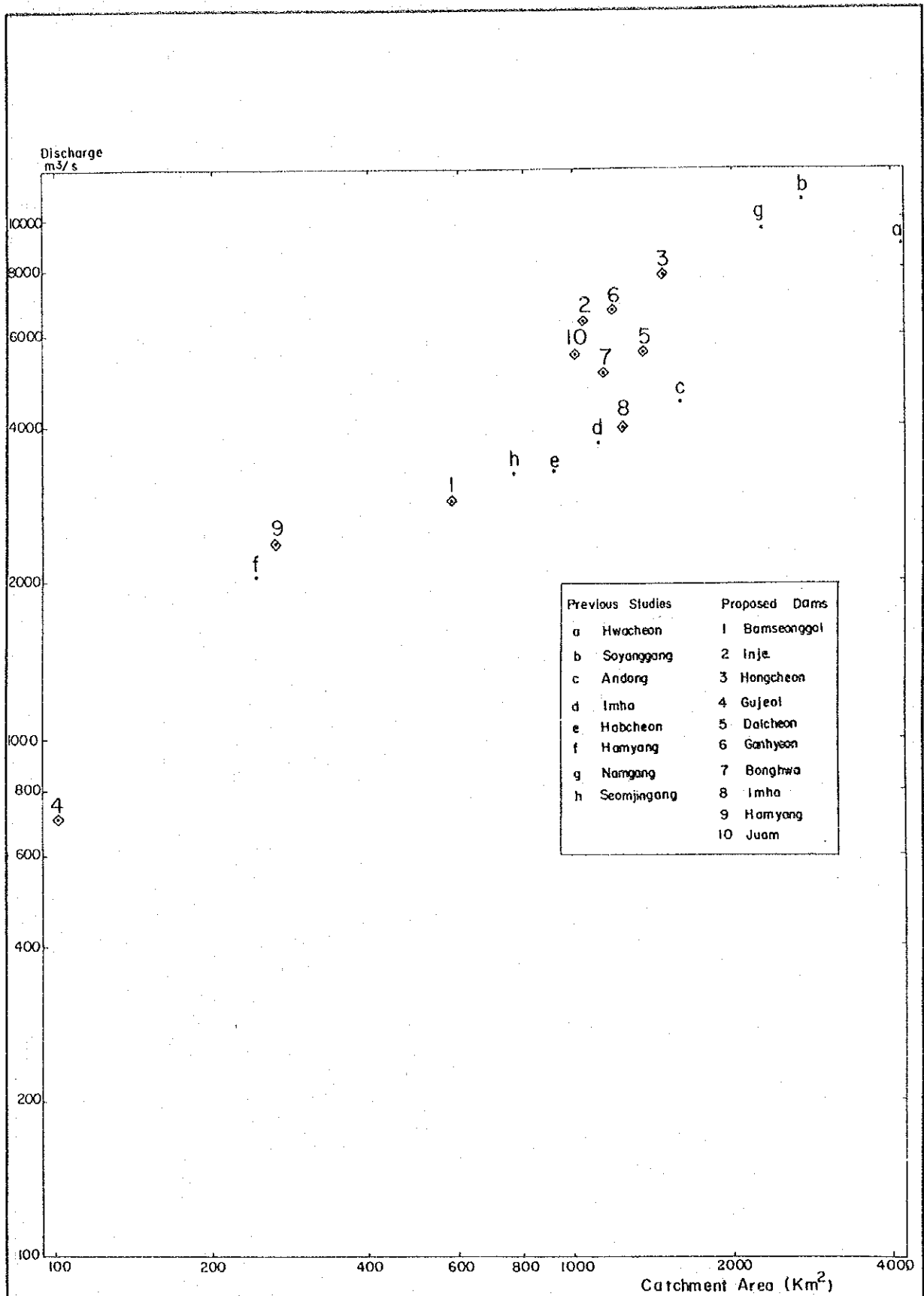
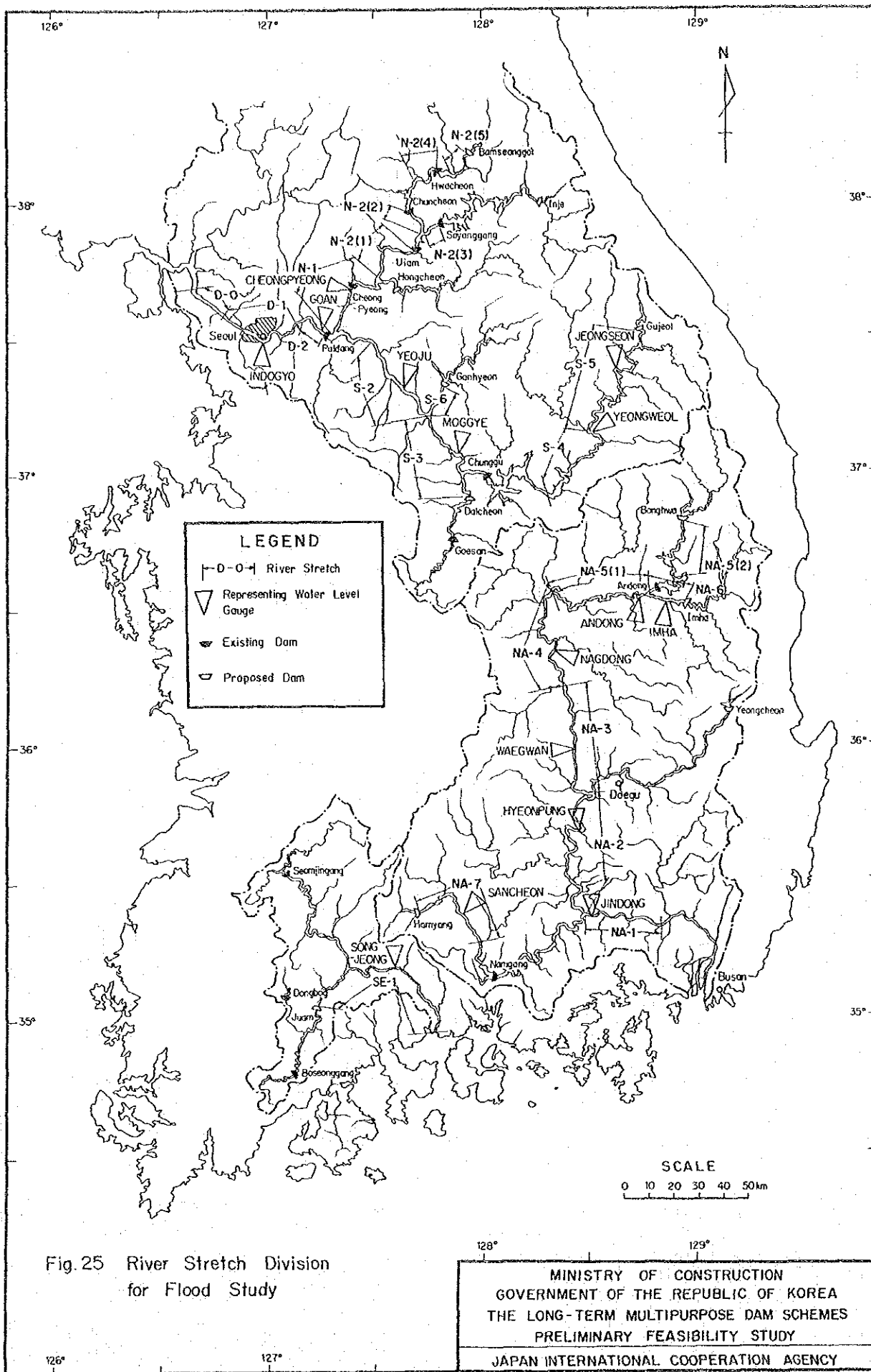


Fig. 24 Catchment Area -100-year Flood Discharge Relationship

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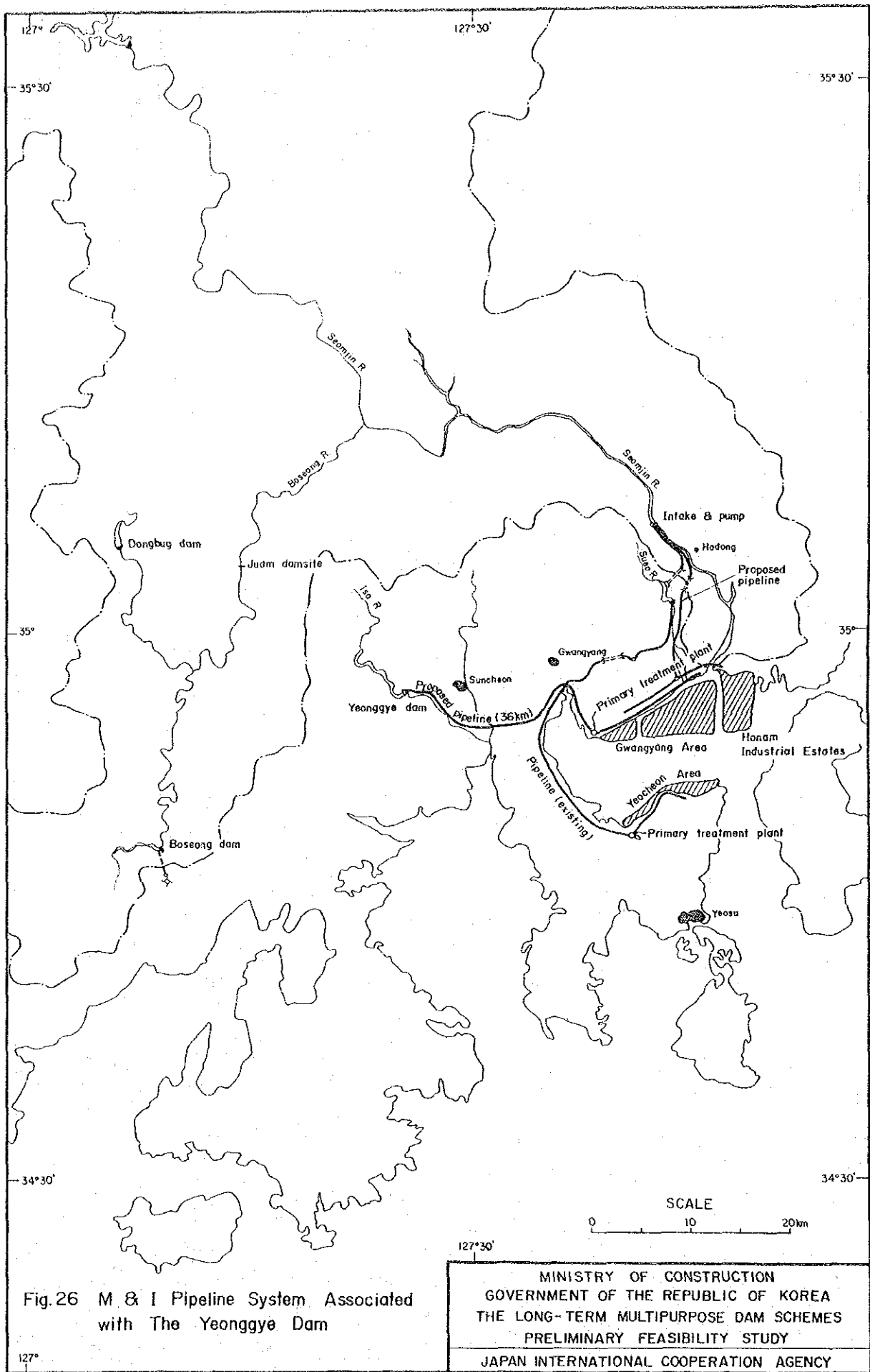
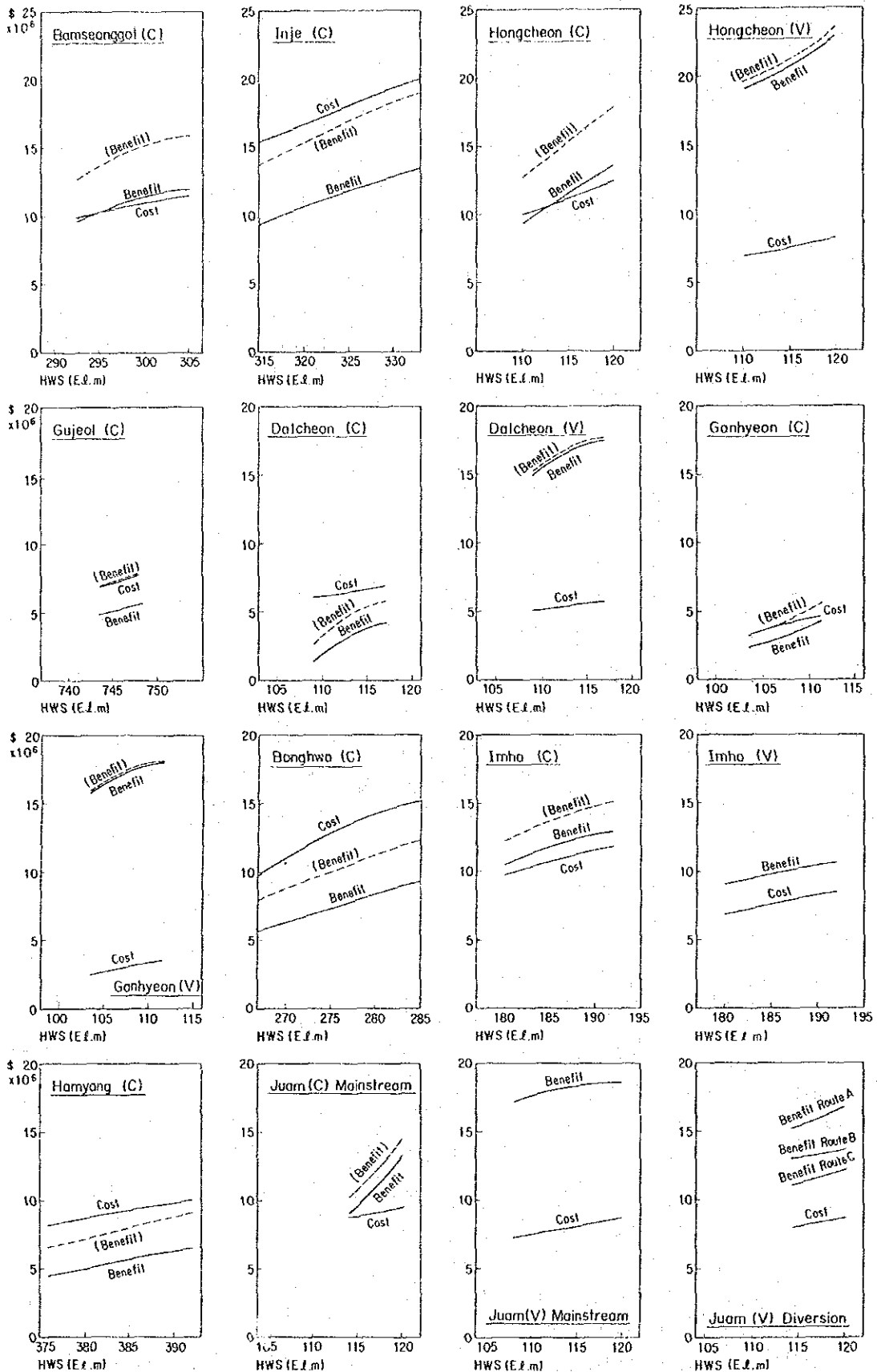


Fig.26 M & I Pipeline System Associated with The Yeonggye Dam



Remarks : (Benefit) shows the case of energy benefit doubled

Revised

Fig. 27 Annual Benefit and Cost of the Proposed Dam Schemes

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