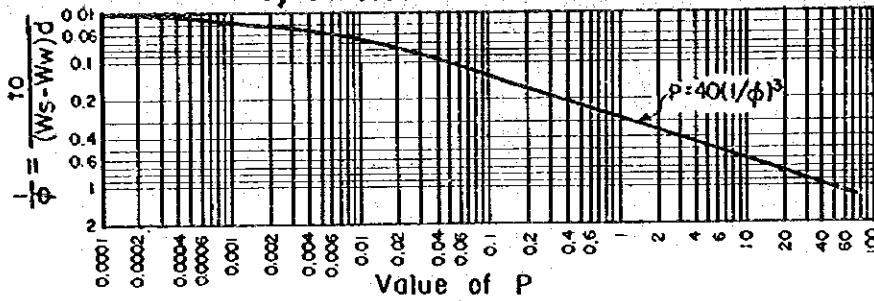
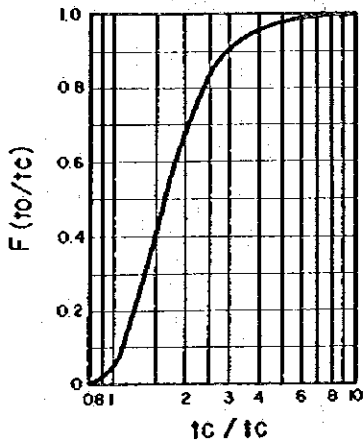


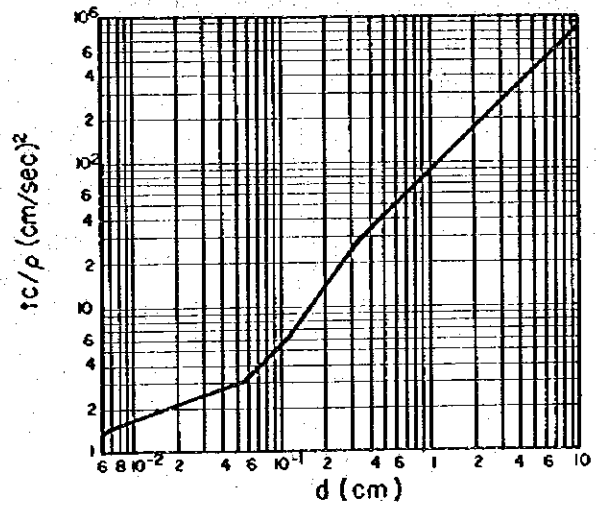
Sediment Function  
by Einstein - Brown



Sediment Function  
by Sato - Kikkawa-Ashida



Critical Tractive Force  
by Iwagaki



Note :

$\rho$  : density of water (Ww/g)

P value for Lane-Kolinske formula

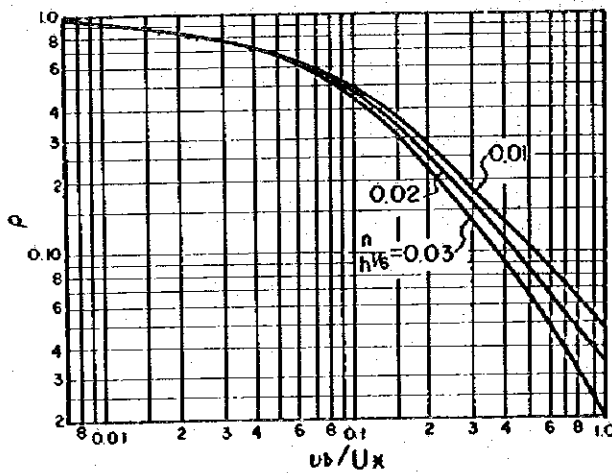


Fig. I.4-3 Diagrams for Sediment Formulas

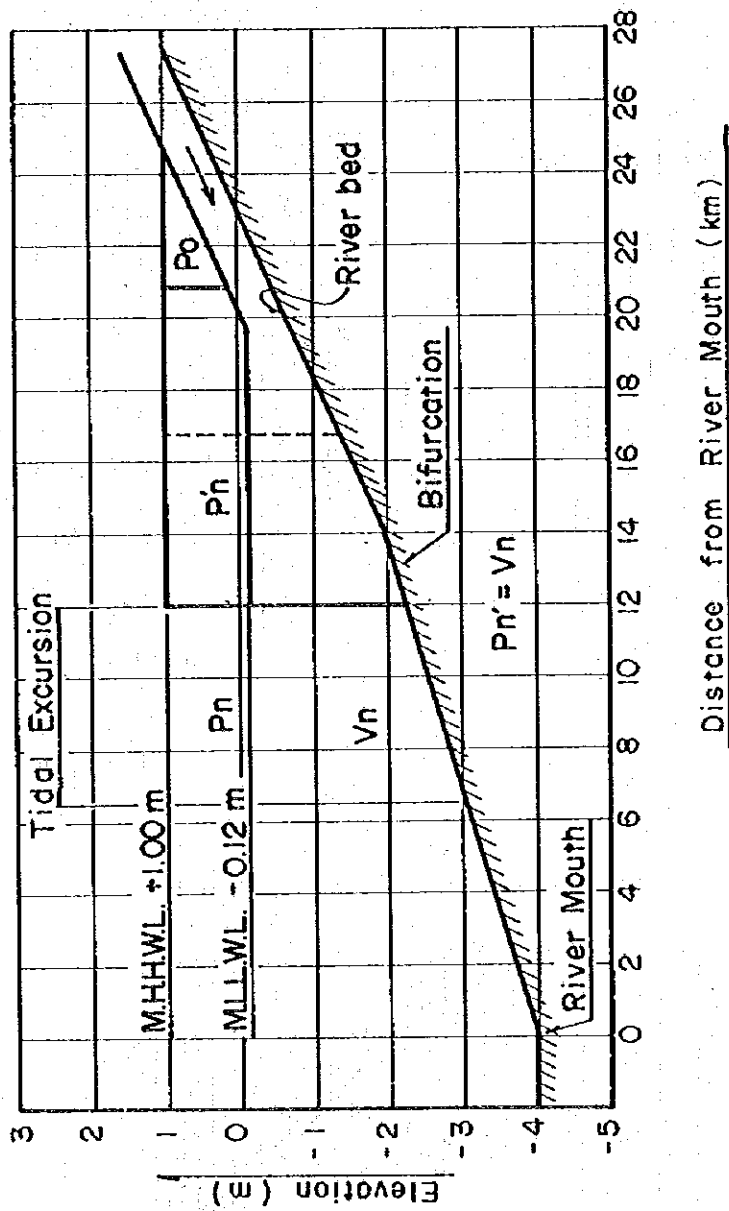


Fig. I.5-1 Model of Tidal Prism

- Upstream end at M.H.H.W.L.
- Downstream end at M.H.H.W.L. and Upstream end at M.L.L.W.L.
- - - Downstream end at M.L.L.W.L.
- Q River flow discharge (m<sup>3</sup>/s)

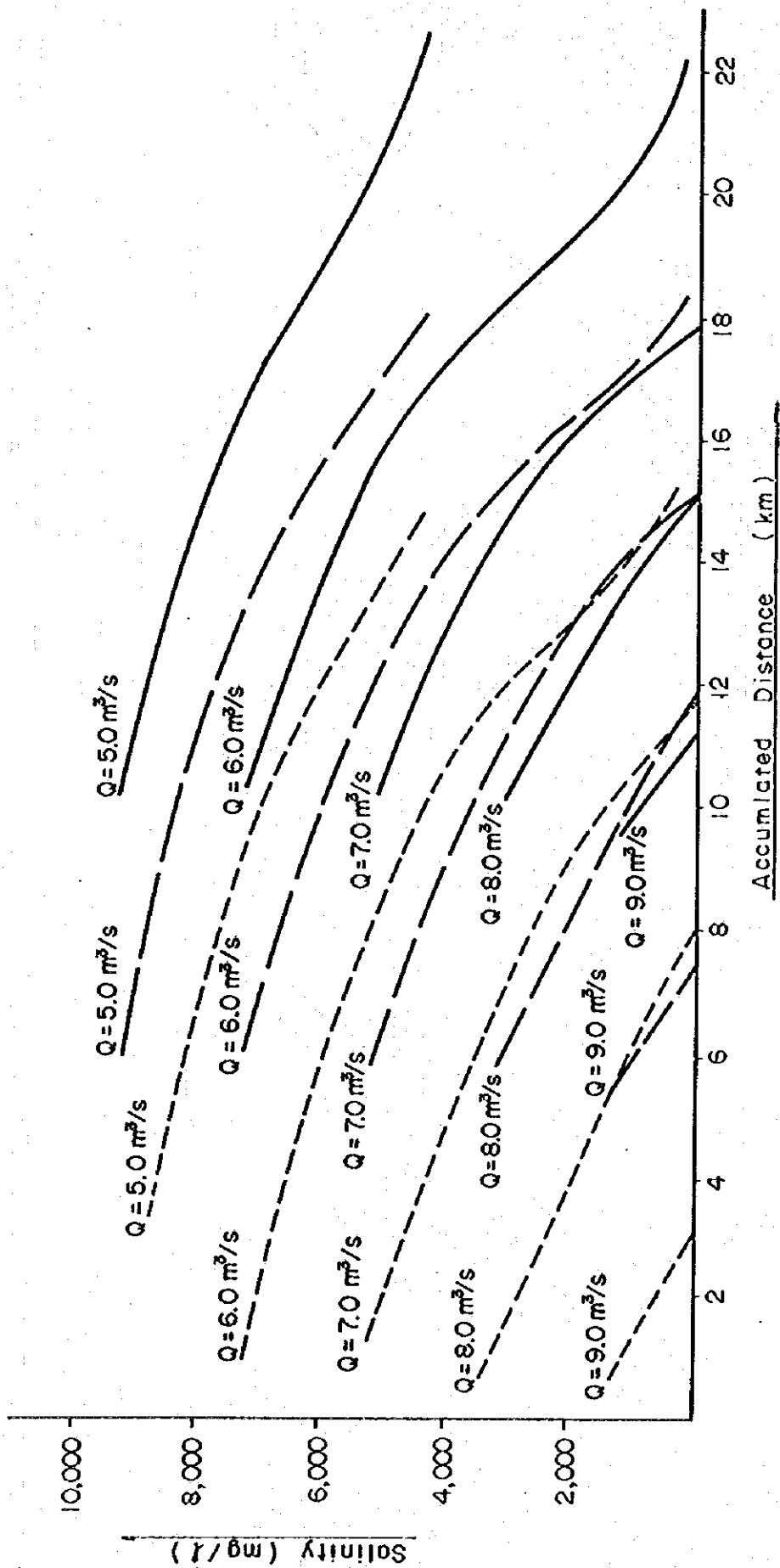


Fig. I.5-2 Concentration of Salinity

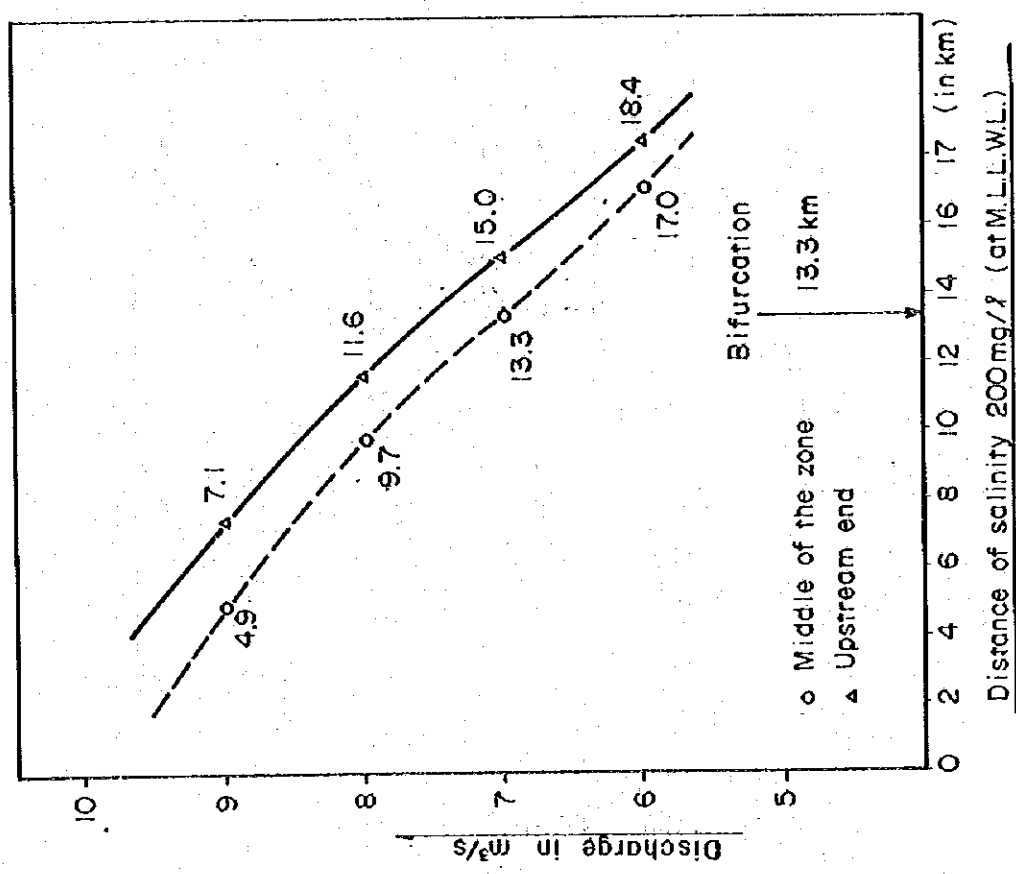
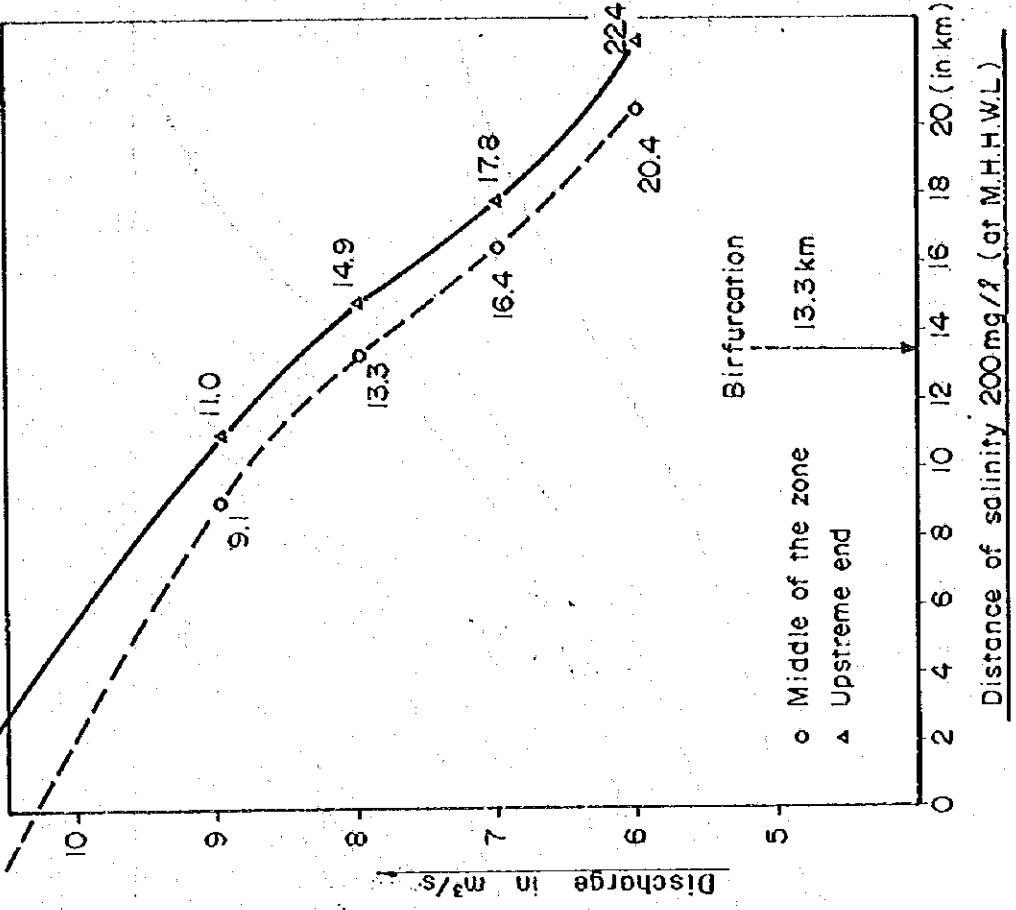
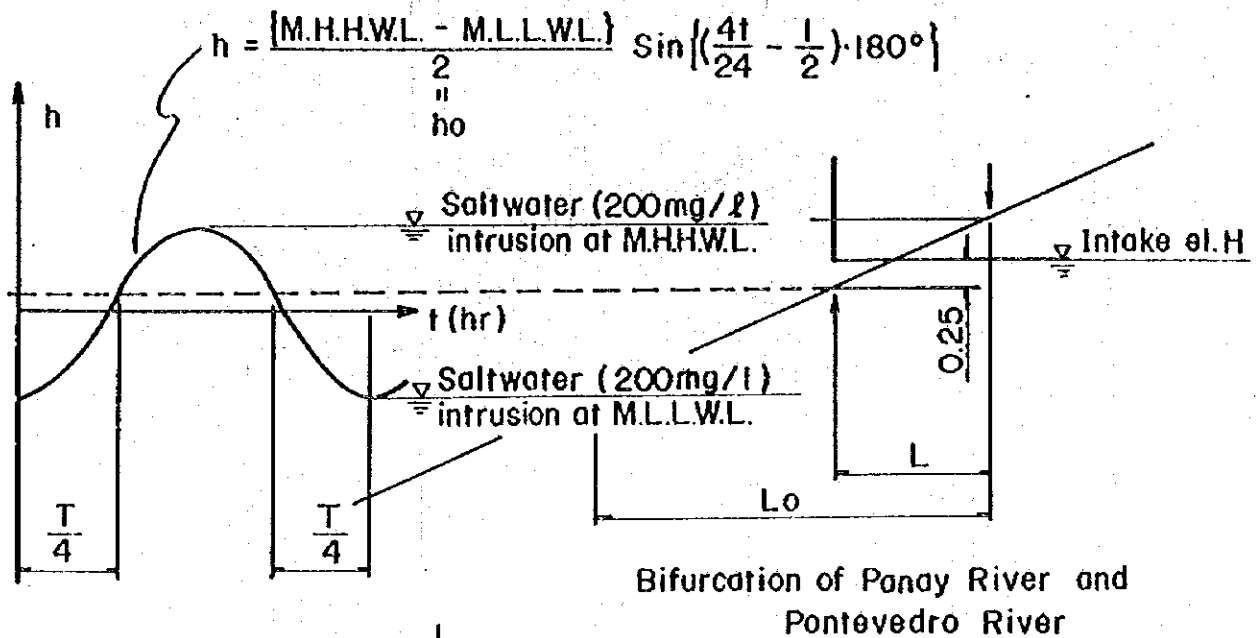


Fig. I.5-3 Distance of the Concentration of  $200\text{ mg/l}$



Possible Intake period  $\times \frac{1}{2}$

$$h_o = 1.12 \times 0.5 = 0.56$$

Accordingly,

$$h = 0.56 \sin \left\{ \left( \frac{4}{24} \left( \frac{T}{4} \right) - \frac{1}{2} \right) \times 180 \right\}$$

$$\therefore T = \left\{ 180 + 2 \sin^{-1} \left( \frac{h}{0.56} \right) \right\} \times 24 / 360$$

$$\text{where, } h = H - 0.25$$

$$H = \text{M.H.H.W.L.} - (\text{M.H.H.W.L.} - \text{M.L.L.W.L.}) \cdot L / L_o$$

Fig. I. 5-4 Reference Figure for the Equation of Intake

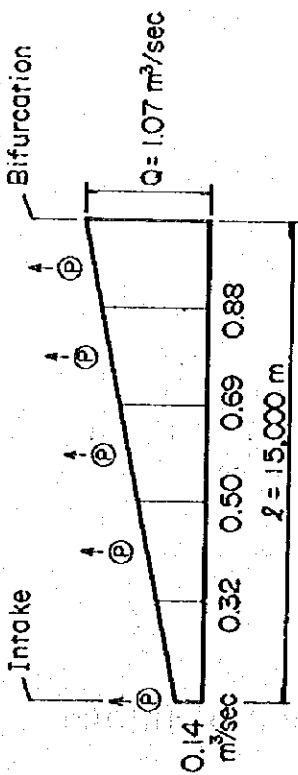


Fig. I.5-5 Intake Water by Pump along Lower Panay River

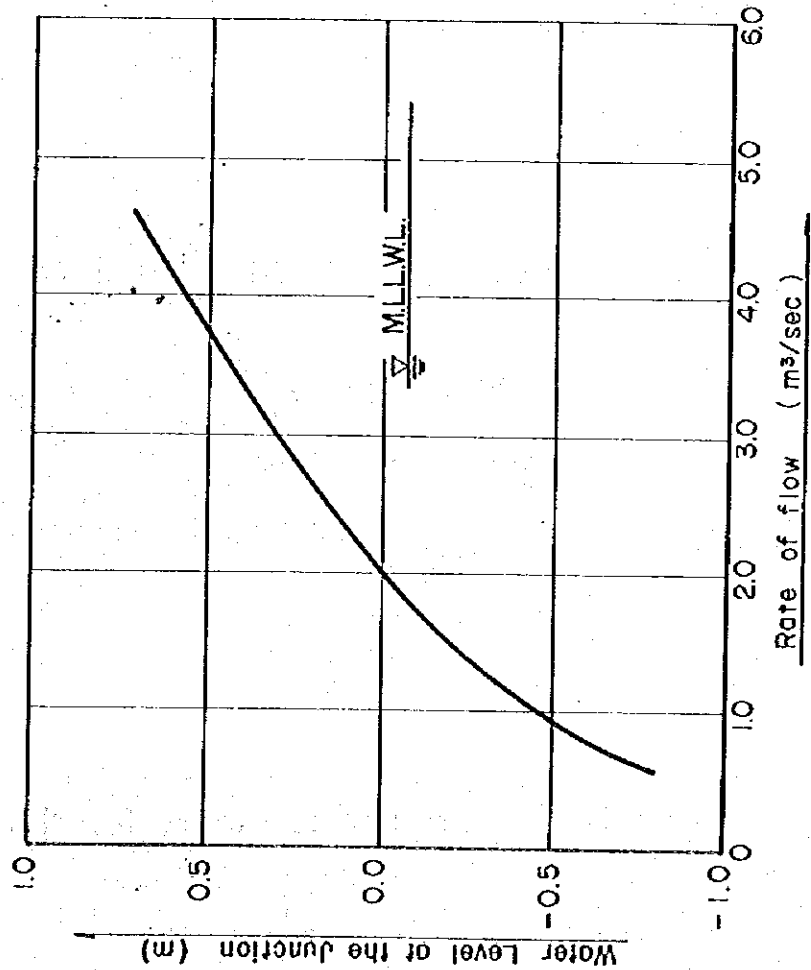


Fig. I.5-6 Rate of Inflow from the Bifurcation

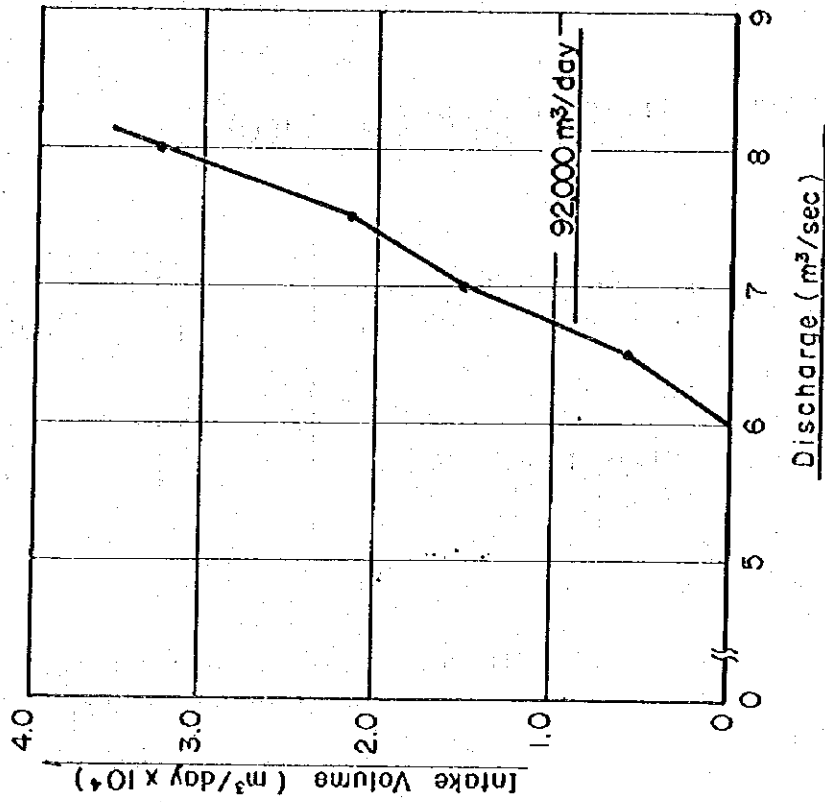
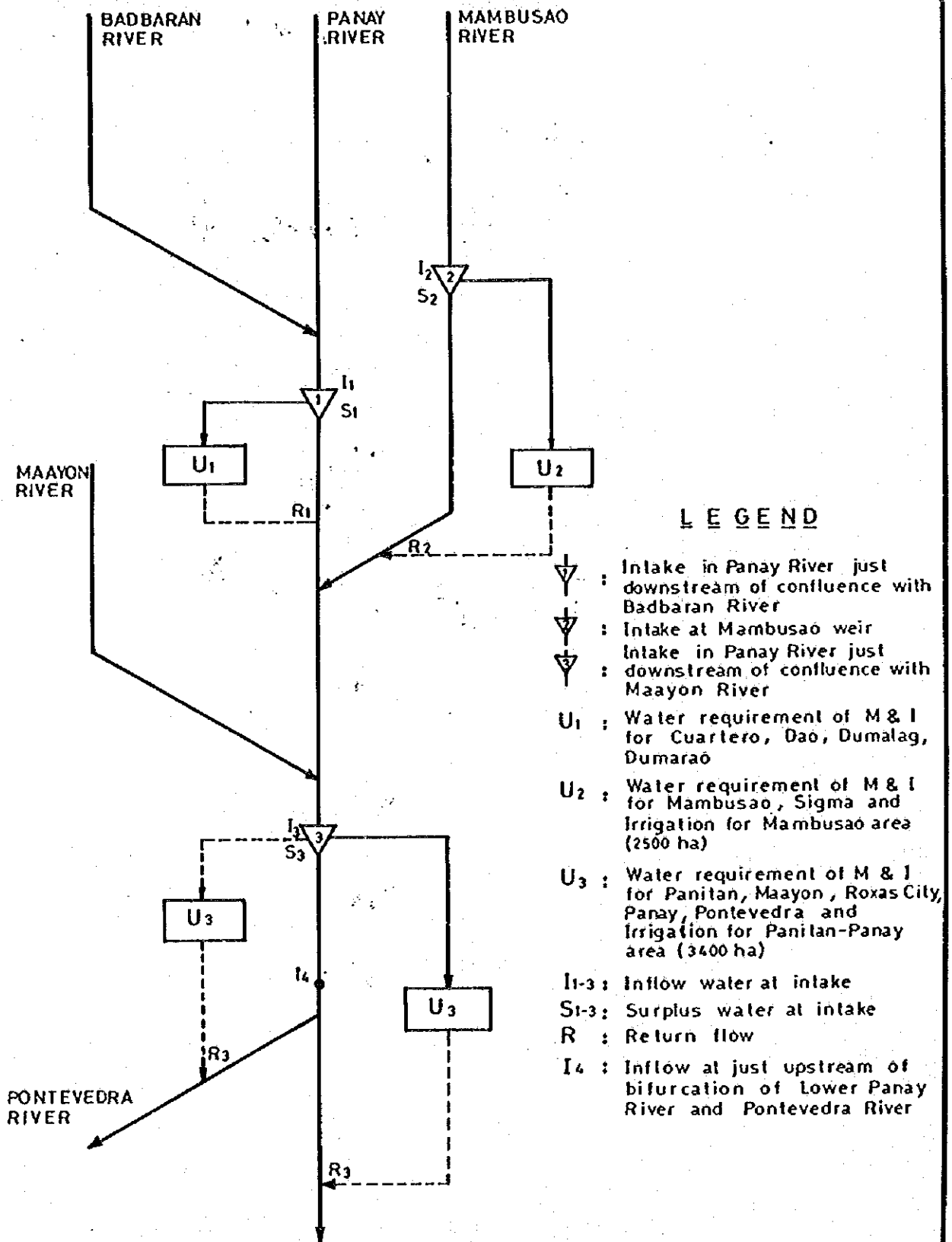





Fig. I.5-7 Intake Volume

Fig.1.6-1 SCHEMATIC DIAGRAMS FOR WATER BUDGET



LEGEND

-  : Intake in Panay River just downstream of confluence with Badbaran River
-  : Intake at Mambusao weir
-  : Intake in Panay River just downstream of confluence with Maayon River
- U<sub>1</sub> : Water requirement of M & I for Cuartero, Dao, Dumalag, Dumarao
- U<sub>2</sub> : Water requirement of M & I for Mambusao, Sigma and Irrigation for Mambusao area (2500 ha)
- U<sub>3</sub> : Water requirement of M & I for Panitan, Maayon, Roxas City, Panay, Pontevedra and Irrigation for Panitan-Panay area (3400 ha)
- I<sub>1-3</sub> : Inflow water at intake
- S<sub>1-3</sub> : Surplus water at intake
- R : Return flow
- I<sub>4</sub> : Inflow at just upstream of bifurcation of Lower Panay River and Pontevedra River







