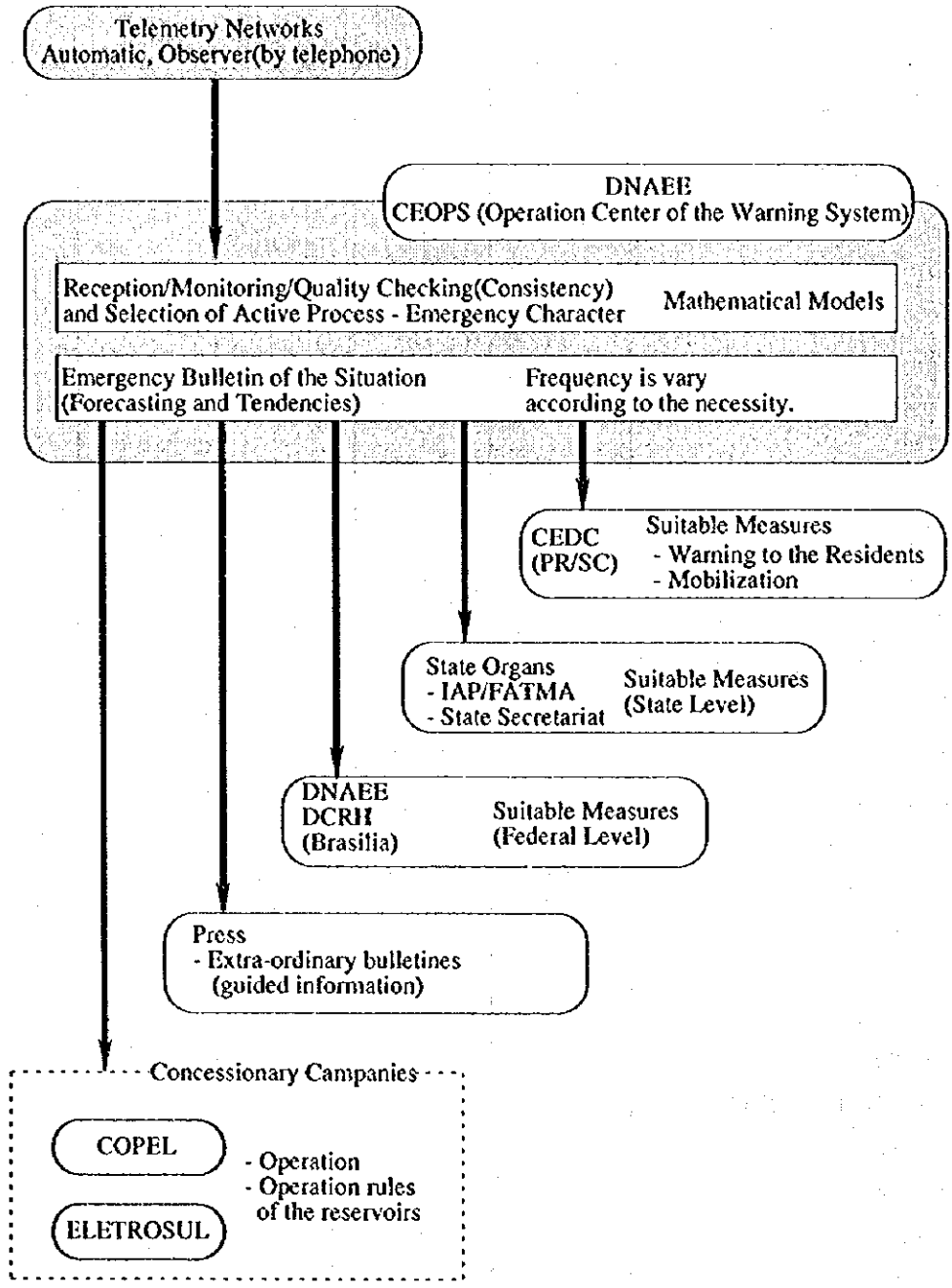
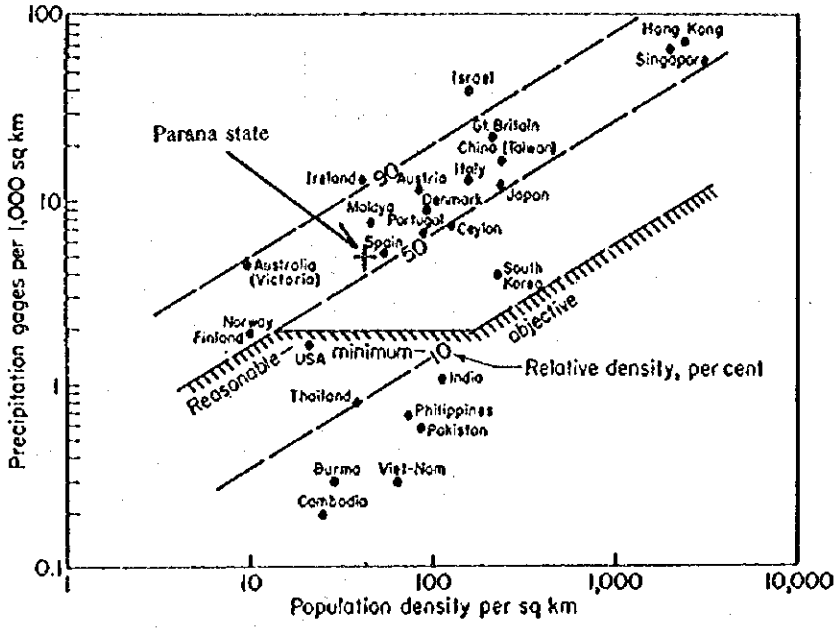


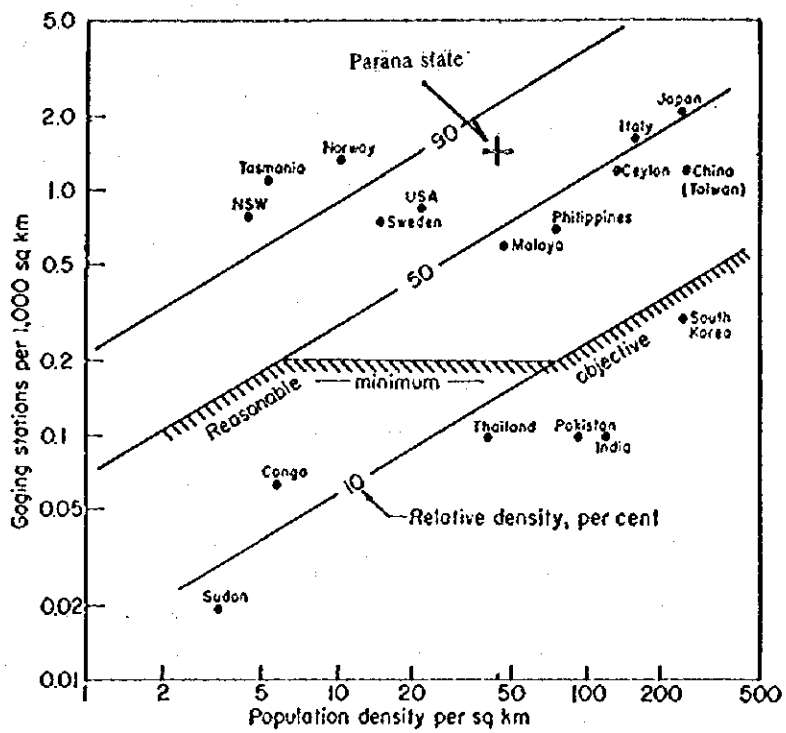
SOURCE: CEOPS(Warning System Operation Center)/DNAEE 1993

Figure 2.8 Information Flow of Flood Warning System by DNAEE



SOURCE : Langbein, United Nations ECAFE (1960)
situation of Parana state is plotted by JICA team

Figure-2.9 Comparative Densities of National Networks of Precipitation Gauges



SOURCE : Langbein, United Nations ECAFE (1960)
situation of Parana state is plotted by JICA team

Figure-2.10 Comparative Densities of National Networks of Stream Flow Gauges

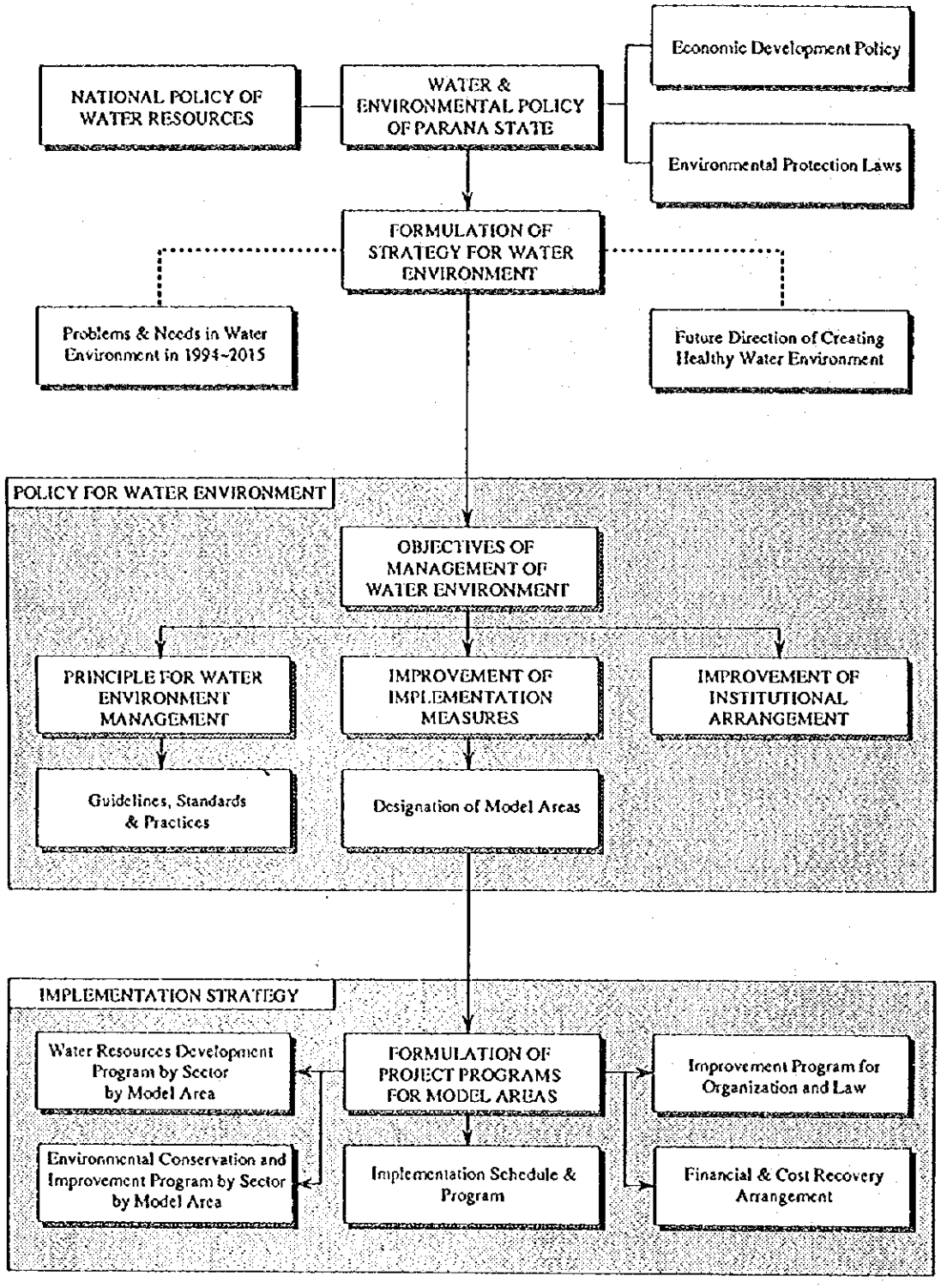


Figure - 3.1 Framework of Strategy for Water Environment in Parana State

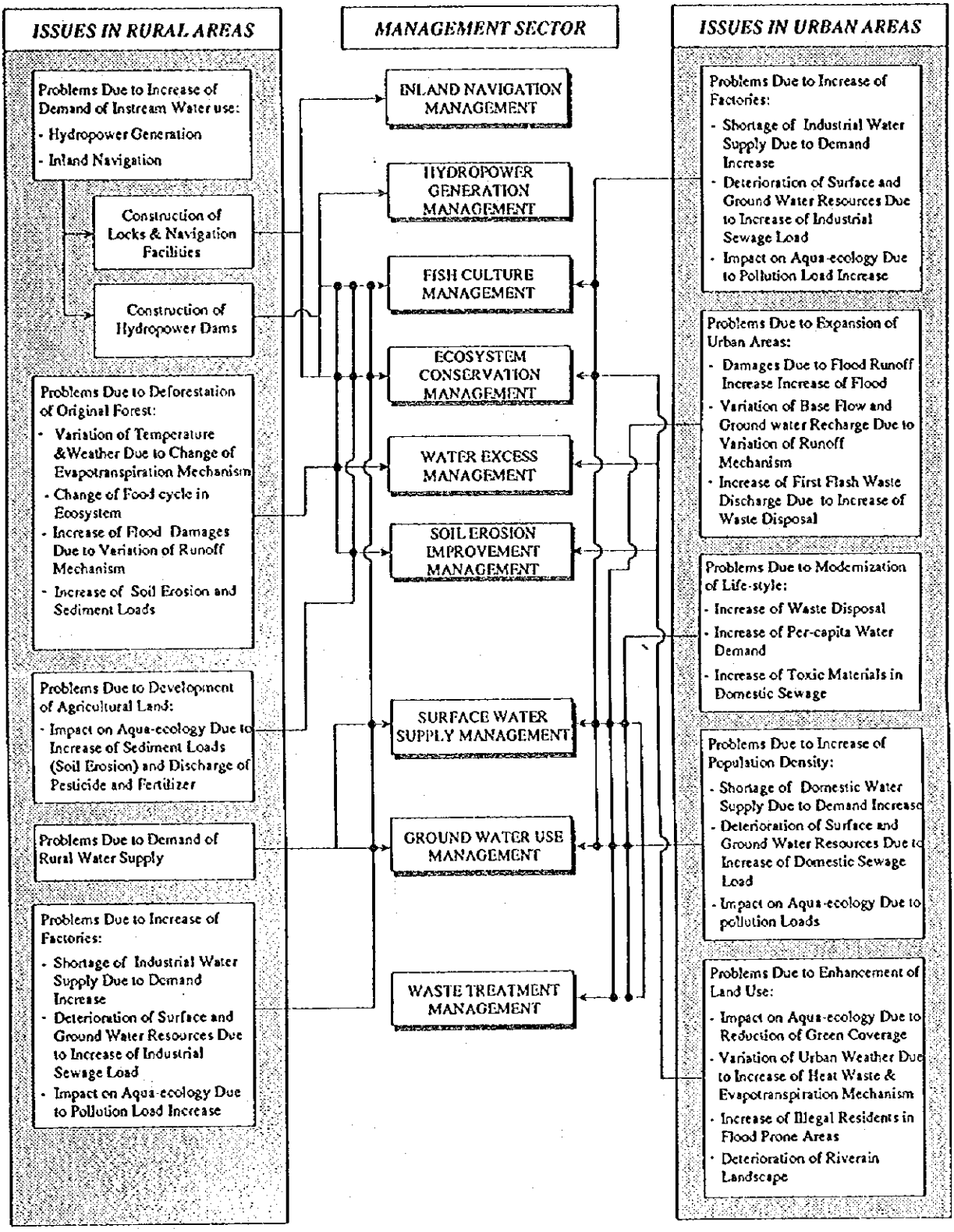


Figure - 3.2 Fundamental Issues in Water Environment in Parana State

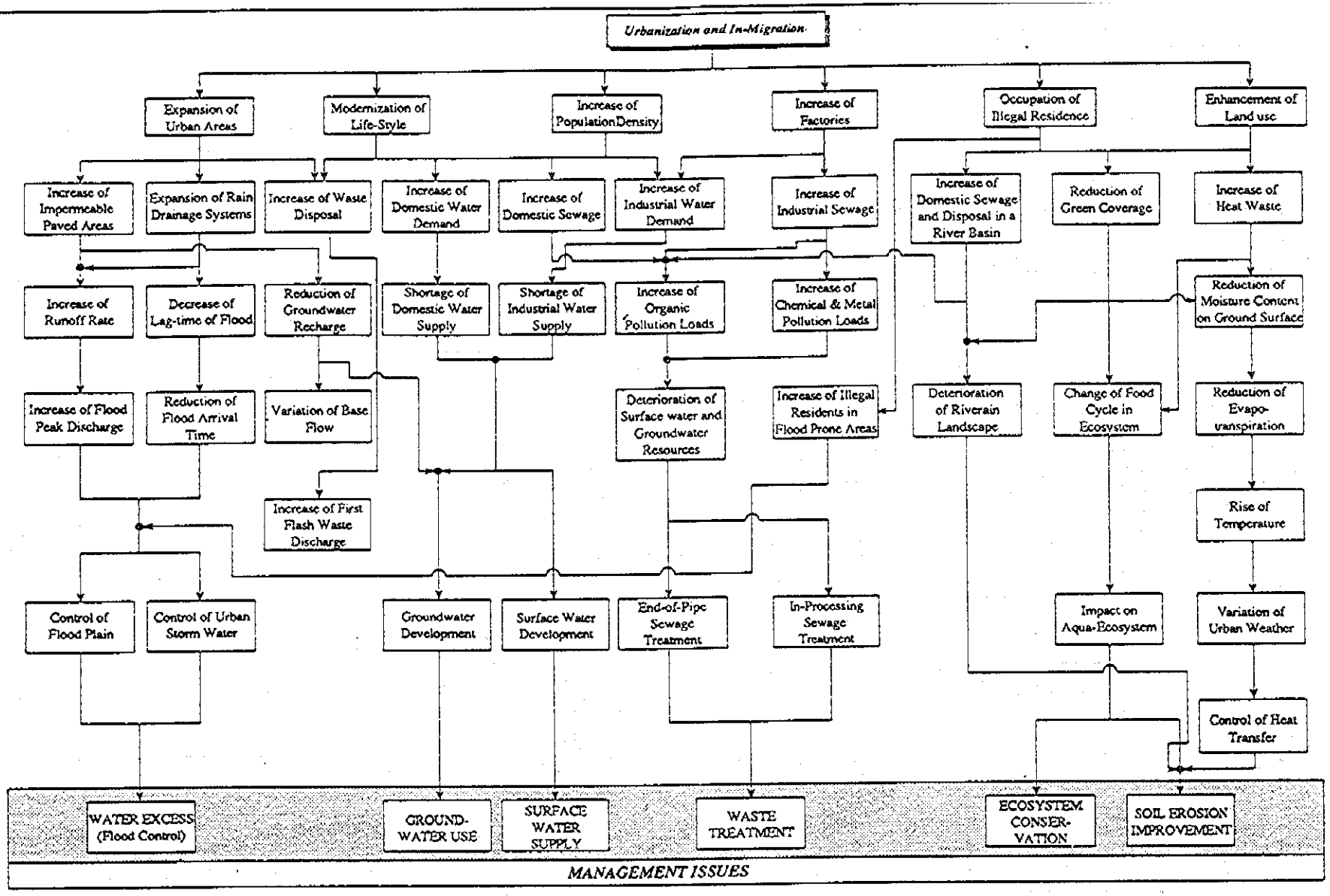


Figure - 3.3 Prospective Issues in Water Environment in Urban Areas in Parana State

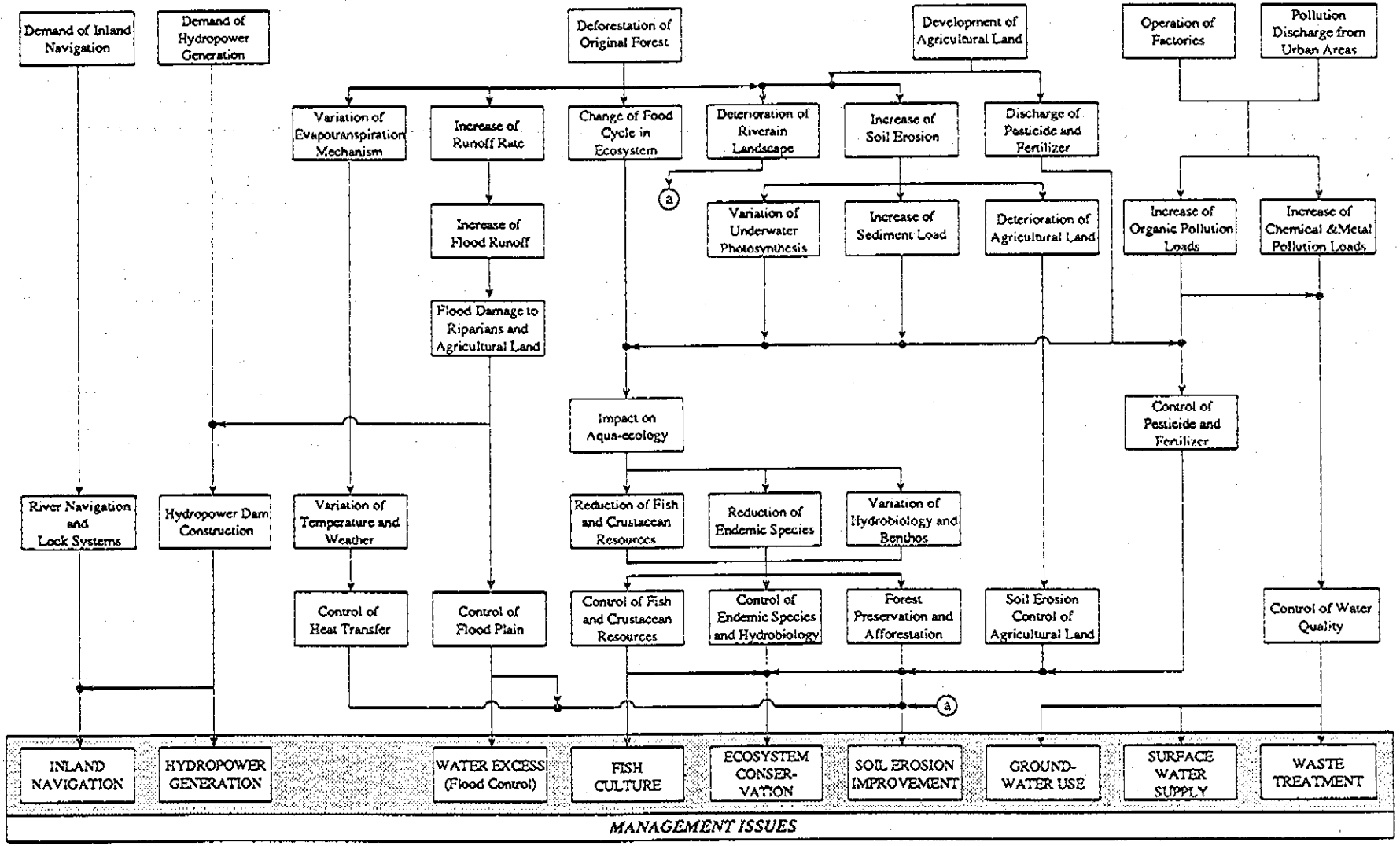


Figure - 3.4 Prospective Issues in Water Environment in Rural Areas in Parana State(Draft)

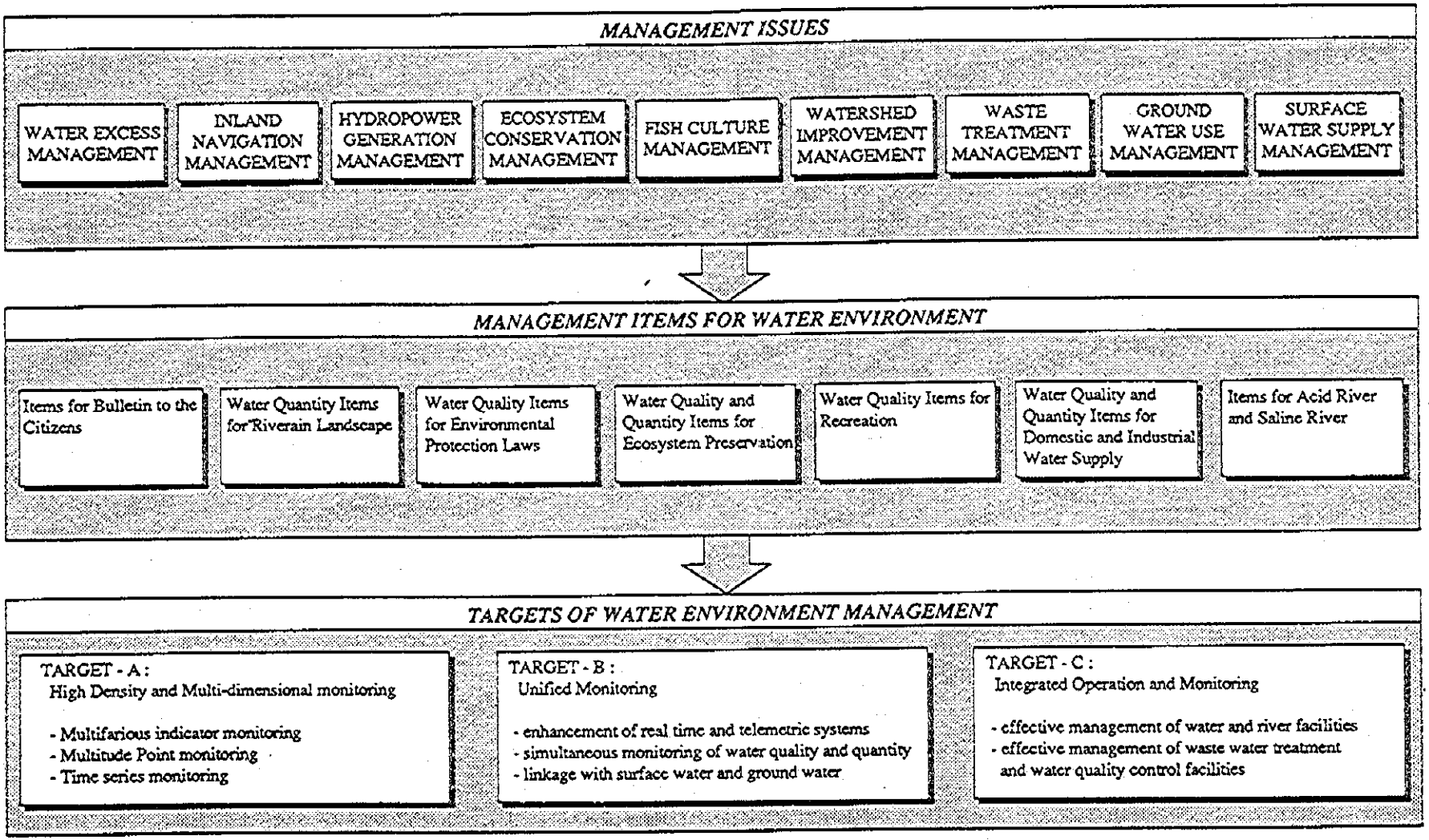


Figure - 3.5 Targets and Management Items of Water Environment

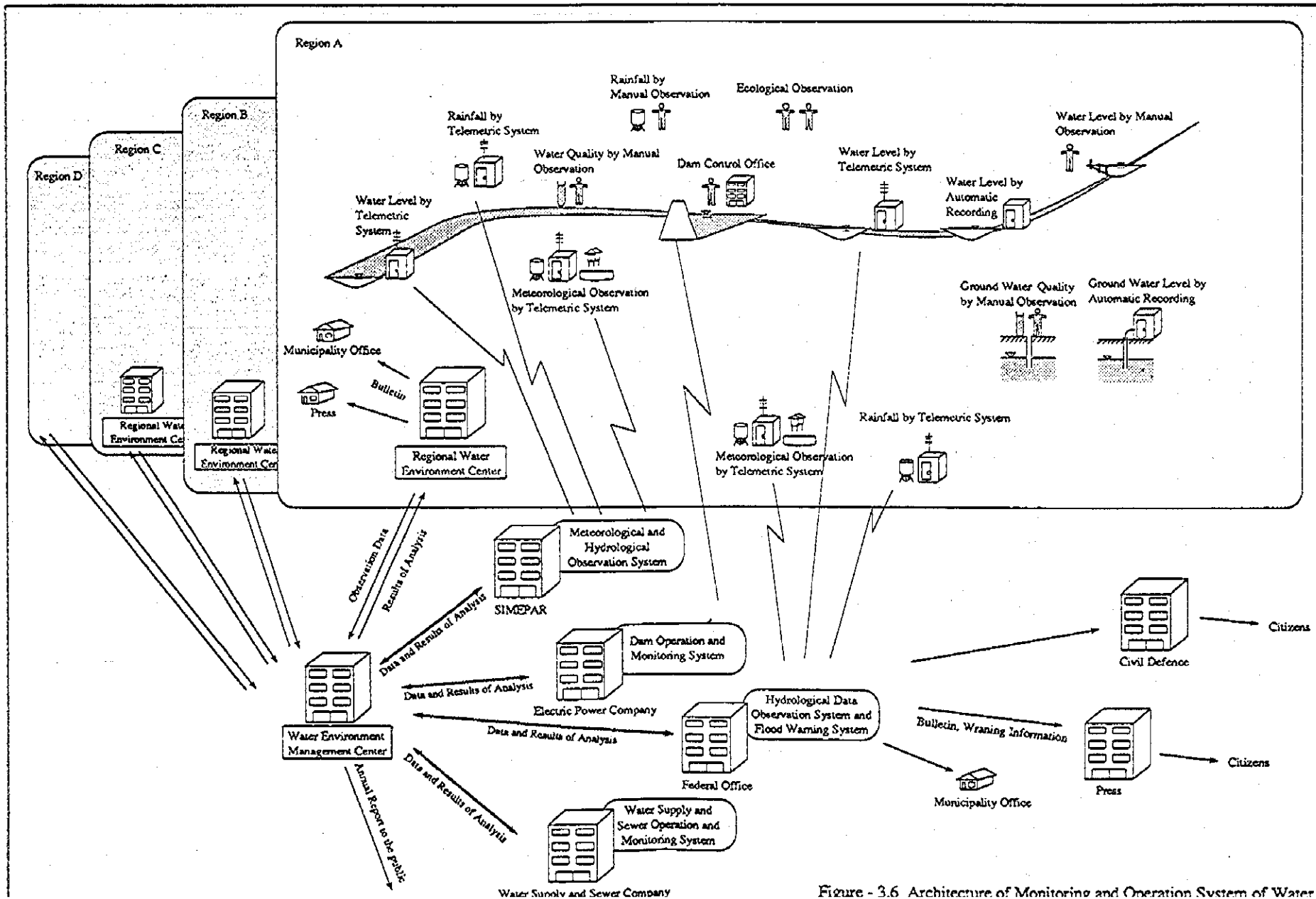


Figure - 3.6 Architecture of Monitoring and Operation System of Water

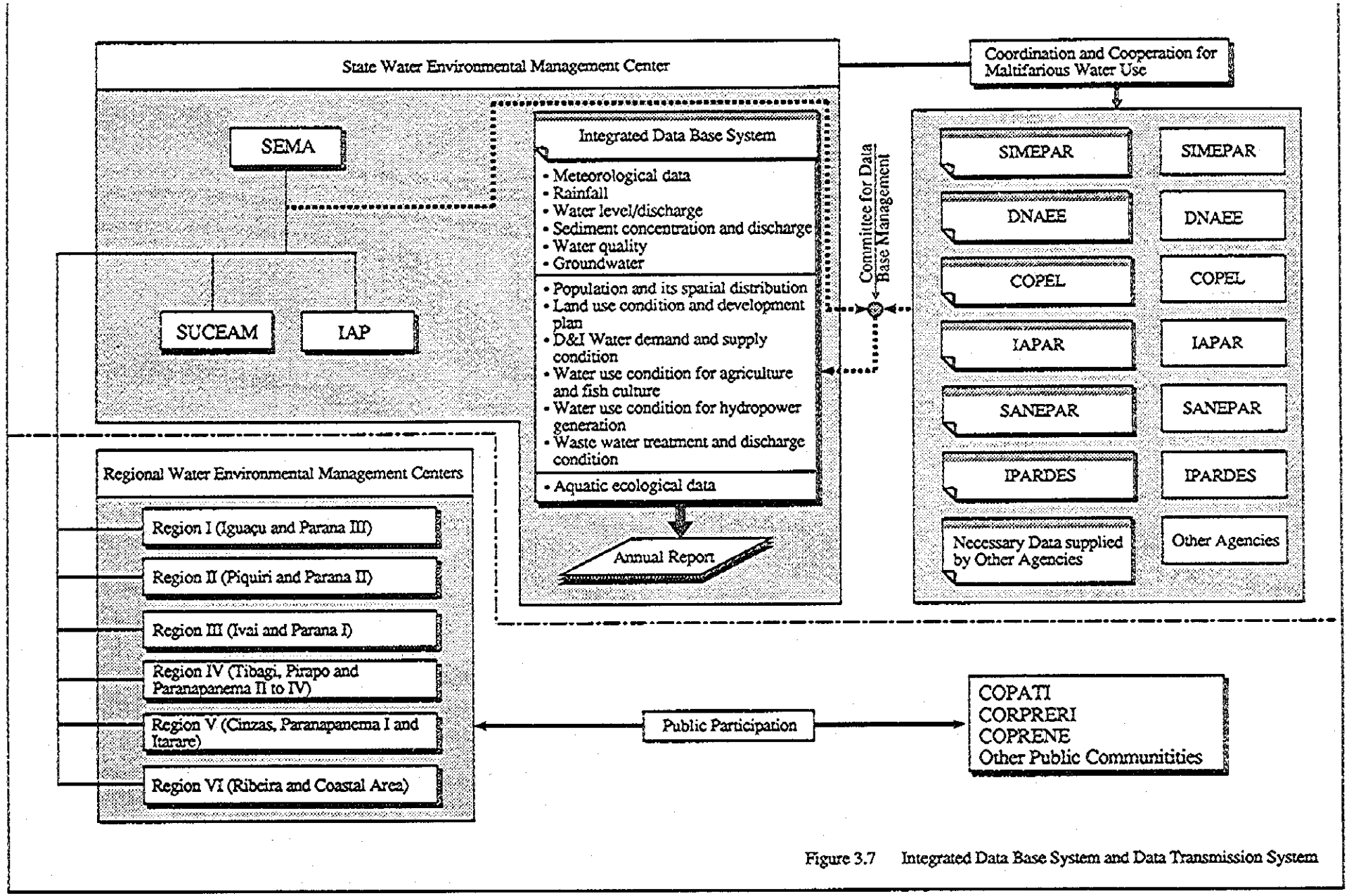
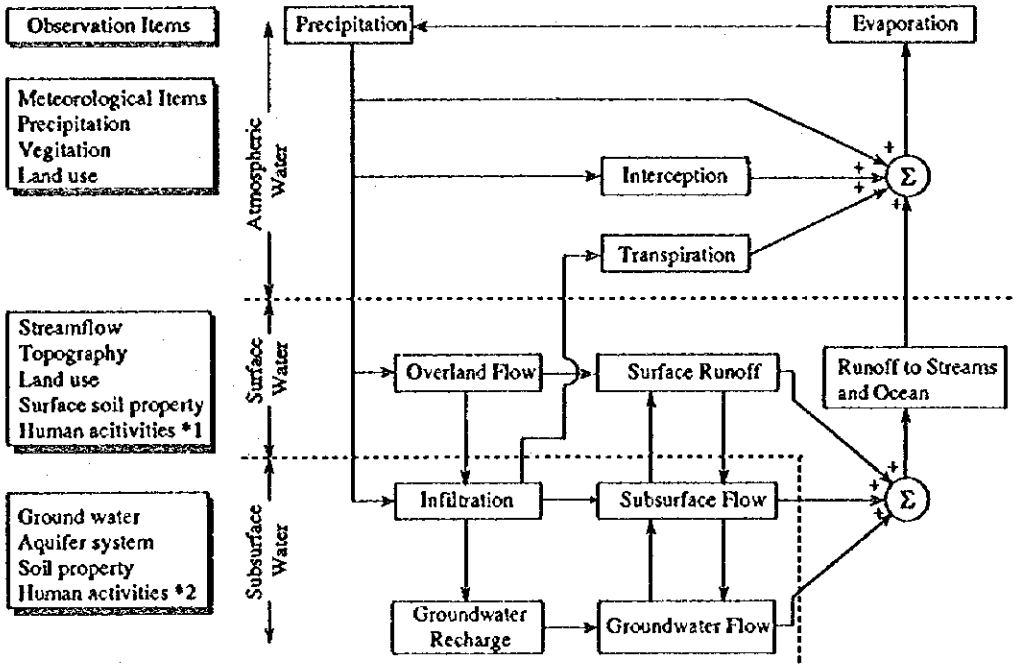


Figure 3.7 Integrated Data Base System and Data Transmission System



Notation :

*1 : Water Intake, Waste Discharge
*2 : Water Supply System Inventry, Sewer System Inventry, River Inventry, Pumping from wells, and Well Inventry

SOURCE: Chow, Madiment and Mays, 1988
Observation items are supplemented by JICA team

Figure - 3.8 Concept of Hydrological Cycle Monitoring and Required Observation Items

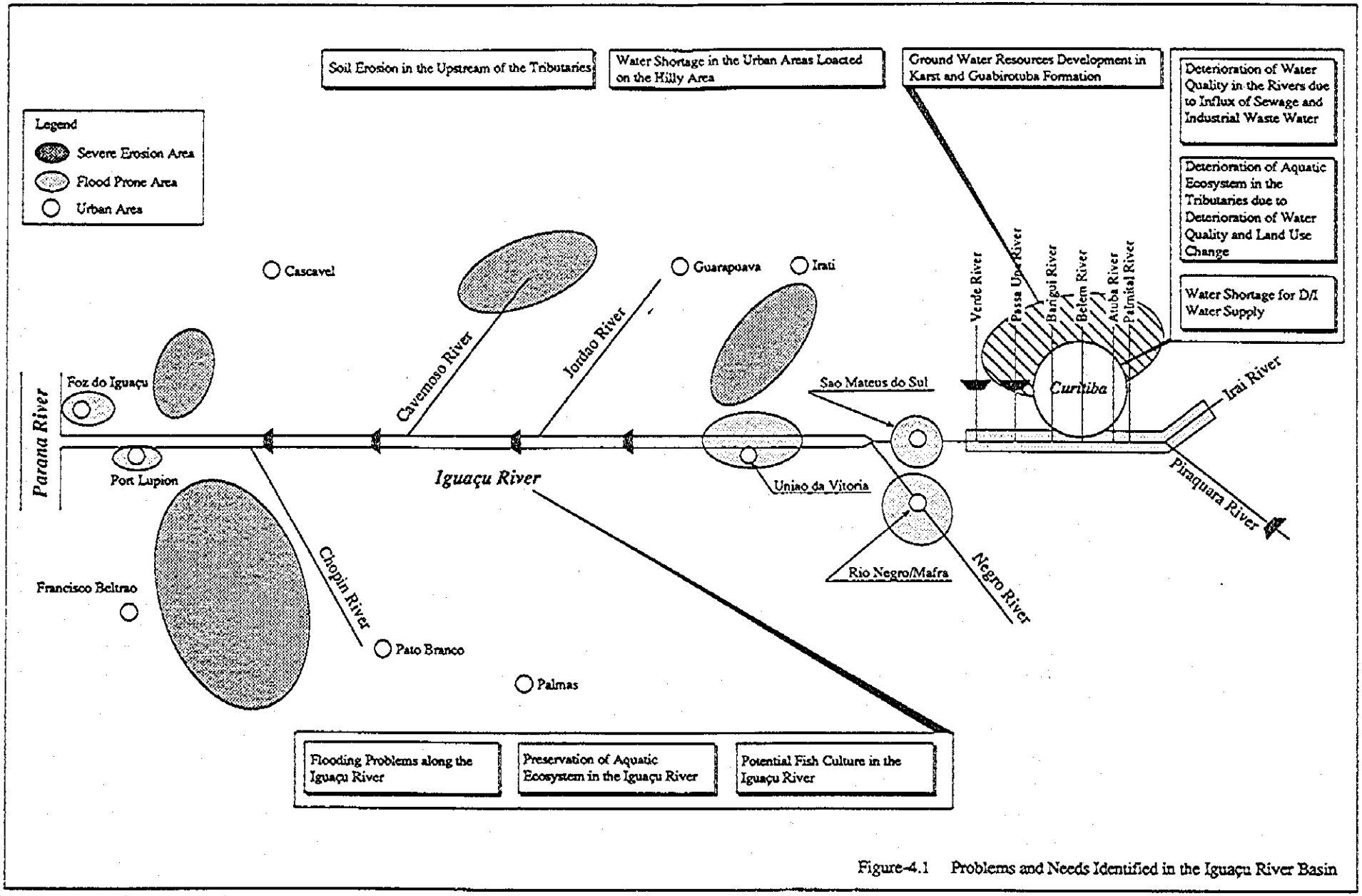


Figure-4.1 Problems and Needs Identified in the Iguaçu River Basin

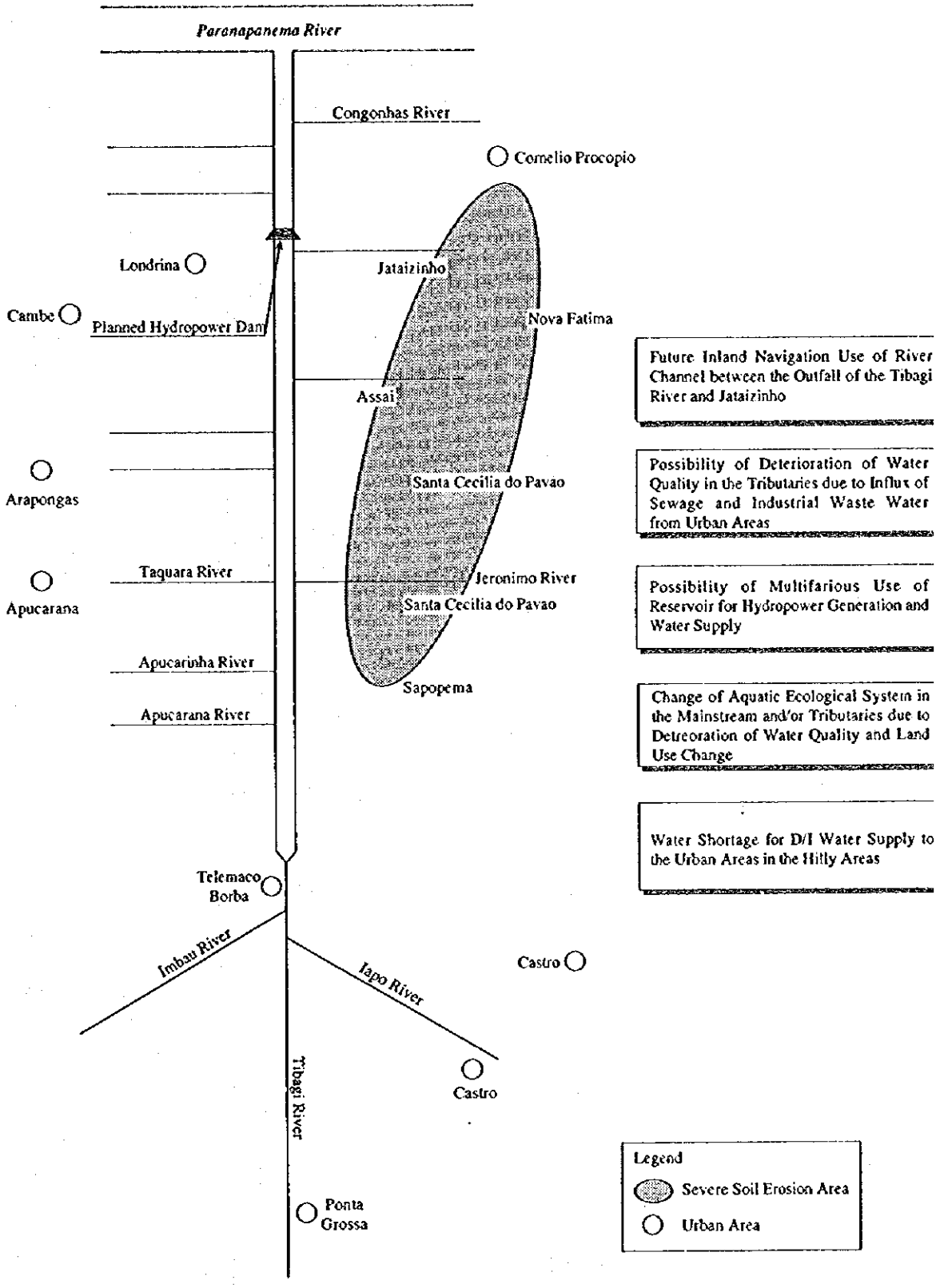


Figure-4.2 Problems and Needs Identified in the Tibagi River Basin

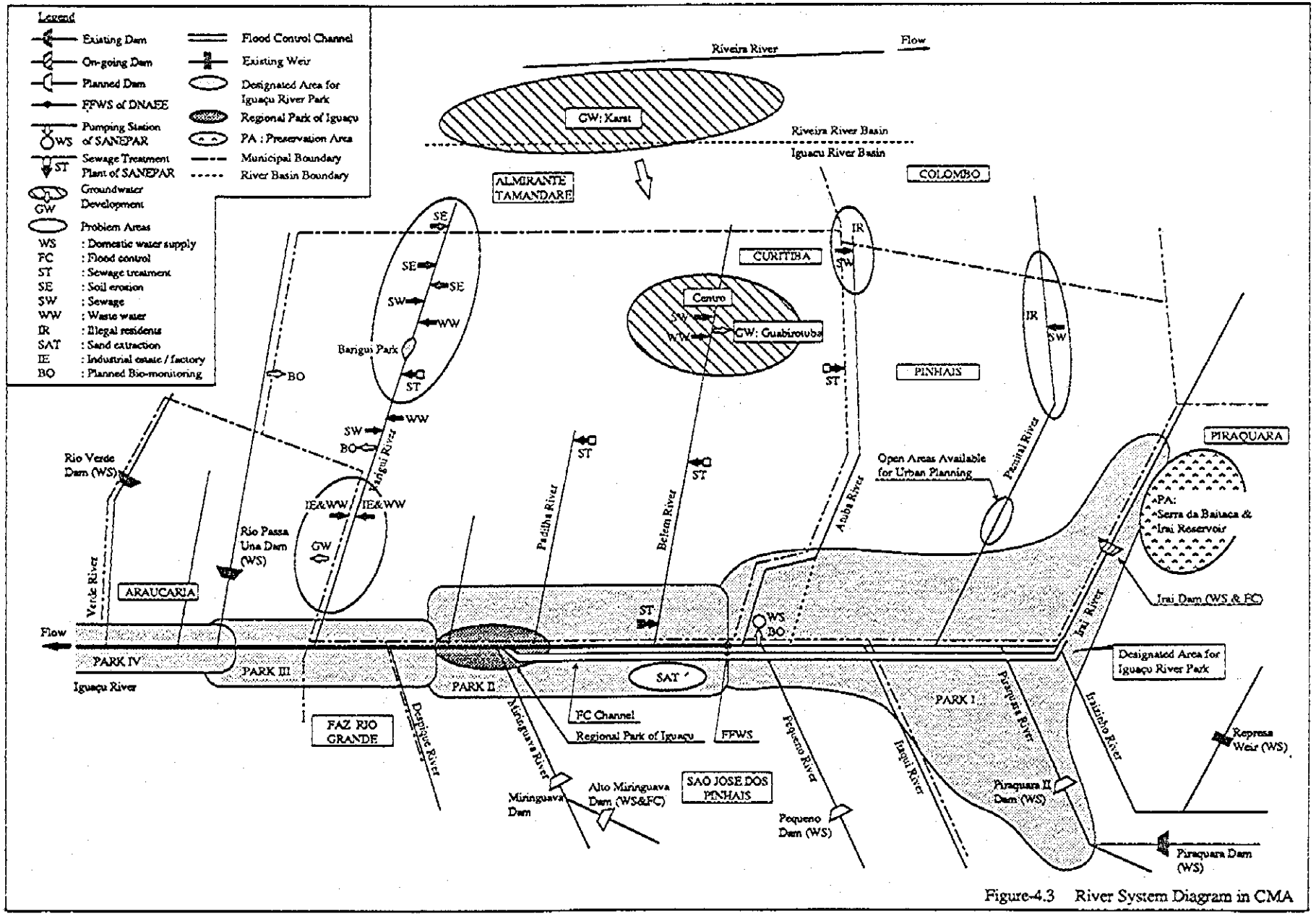


Figure-4.3 River System Diagram in CMA

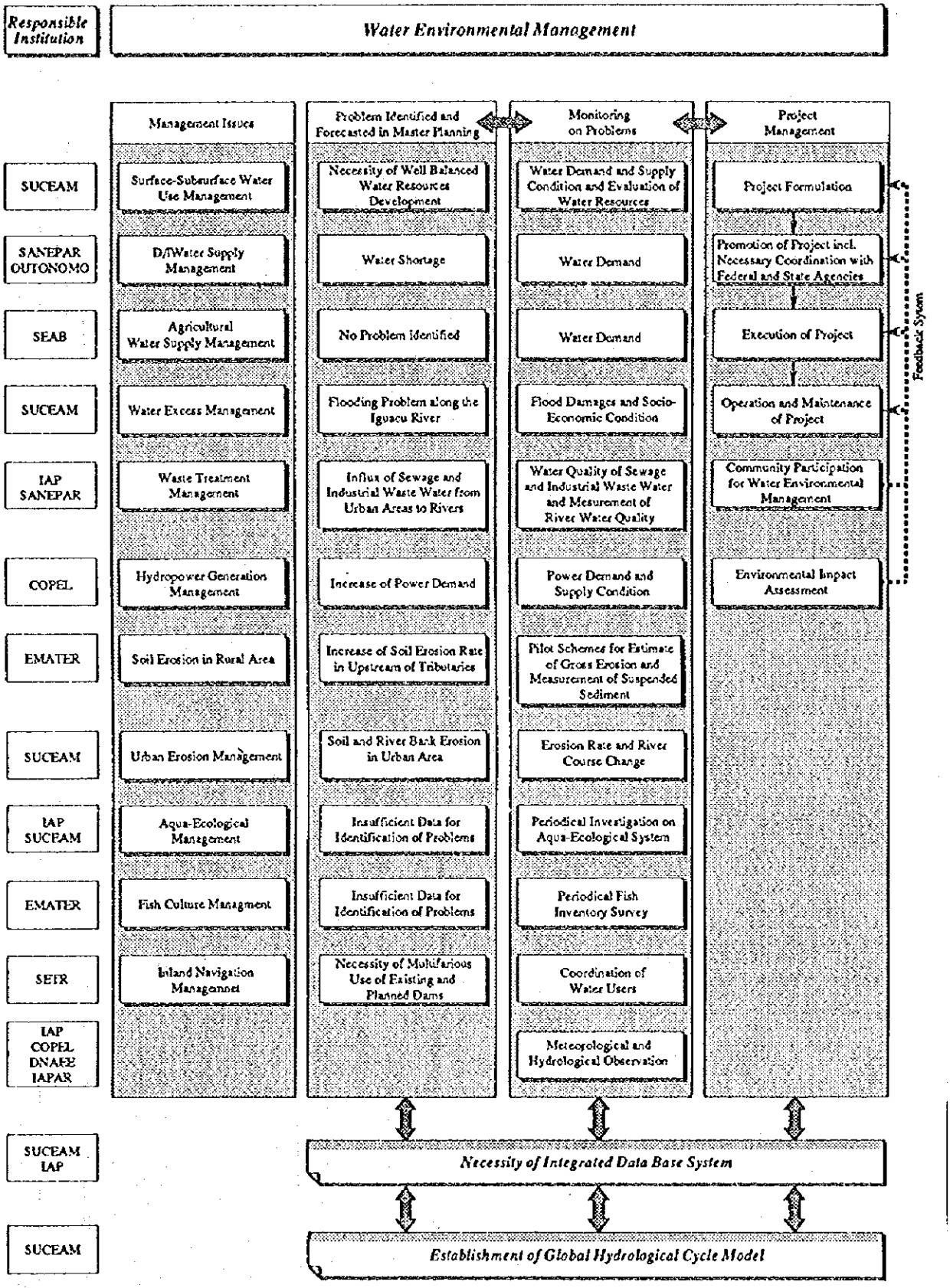


Figure-4.4 Water Environmental Management

Figure-4.5 Implementation Schedule of Water Environmental Management