

Alternative Sourcing and Use of Freshwater: Updates from Asia

Prepared by

Dr. Buenaventura B. Dargantes

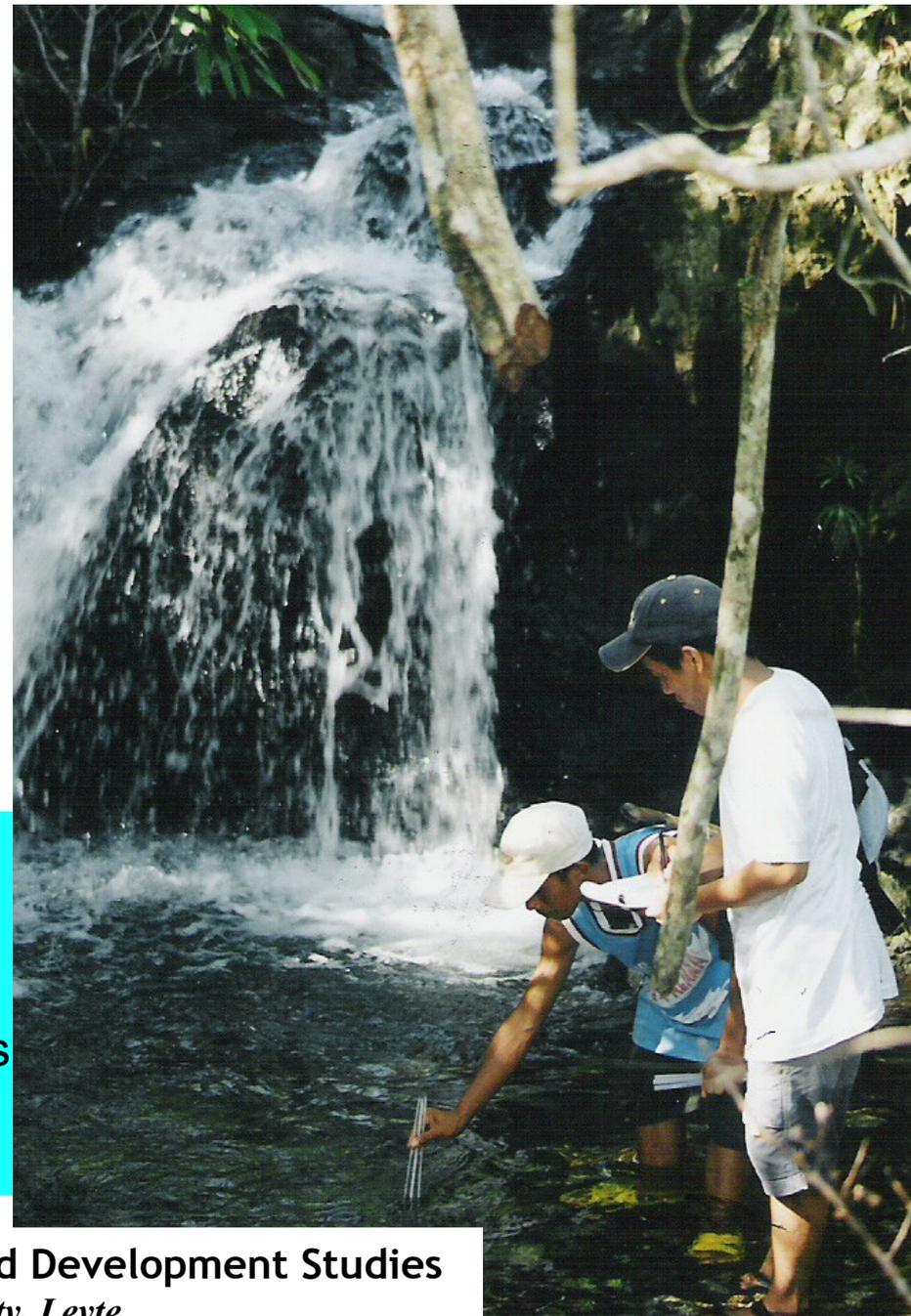
Professor of Socio-ecology

ISRDS, VSU, Baybay, Leyte, Philippines

Tel/Fax: 053-5637912 or 053-3352621

Cellphone: 0919-3490974

E-mail: vsuwaterresearch@yahoo.com.ph



Institute for Strategic Research and Development Studies
Visayas State University, 6521-A Baybay City, Leyte

Alternatives to Privatization within the context of Socio-economic Capacity of Water Users

- Implementation of lifeline rates
- Implementation of cross-subsidy mechanisms for economically disadvantaged groups
- Setting minimum quantities of consumptive water for free
- Setting up of public tap stands
- Water tariffs based on meter size
- Setting higher water tariffs for consumption beyond a quantity that a household would reasonably use



Alternatives to Privatization within the context of Water Quality Improvement

- Dual and multiple source systems and conjunctive uses
- Household and community-level water treatment
- Use of water with different qualities for various applications (e.g. piped water from natural spring for consumptive uses, shallow tube wells for flushing toilets)
- Utilization of low-cost, low maintenance and indigenous water filtration, aeration and UV radiation techniques



Alternatives to Privatization within the context of Water Stress Reduction

- Improvement of naturally-occurring water retention & impounding structures
- **Vegetation management**
- Utilization of natural land forms, contours and depressions for the retardation of water flow and for water storage
- Utilization of optimum water holding capacity of various plant species and of different vegetational formations



Alternatives to Privatization within the context of Water Stress Reduction

- Community- and/or local government unit-level protection of water sources and watersheds
- Non-fiscal measures to encourage water conservation or minimize wasteful utilization
- Formulation of internal rules and/or passage of formal legislation protecting water catchments as sources of water (especially for consumptive uses)
- Campaigns on water conservation (in terms of quantity and quality), including peer and neighborhood pressure



Alternatives to Privatization within the context of Enhancing Regulatory and Management Capability

- Capability-building for the management and workers of water utilities
- Strengthening labor-management cooperation within a public utility
- Technical **and** management training for managers **and** workers of water service providers
- Providing opportunities for management and employees of water service providers to cooperate in the delivery of quality public service



Alternatives to Privatization within the context of Enhancing Regulatory and Management Capability

- Strengthening community-based water utilities or associative water service providers
- Strengthening community management of sources of water supply and/or water distribution systems
- Formation & consolidation of water cooperatives, rural water & sanitation associations
- Control by communities over the source of their water supply and/or over their water distribution system in conjunction with any operative “central” water utility



Alternatives to Privatization within the context of Enhancing Informational Capability

- Public-public partnerships for enhancing informational capability for management and workers of water utilities
- Staff development of labor and management of public utilities
- Technical **and** management cooperation (especially in terms of information sharing between managers and workers of water service providers, and academe
- Mentoring arrangements between water utilities, staff exchange and secondment between utilities and universities



Alternatives to Privatization within the context of Enhancing Informational Capability

- Alliances between local governments, water utilities and universities
- Partnerships between water utilities, host communities, local governments and universities
- Information exchange and sharing between elective officials, water service providers, and academe
- Community-level data collection, processing and analysis of water issues with participation of water utilities, local governments and universities



Alternatives to Privatization within the context of Maintaining Biodiversity for Sustainable Sources of Water

- Multi-partite alliances for the protection and conservation of biodiversity in watersheds & river basins identified as sources of water supply
- Internal arrangements and legislative action to protect biodiversity in areas identified as critical sources of water supply
- Cross-disciplinary bio-physical, socio-cultural, political, economic and socio-ecological characterization of areas identified as sources of water supply
- Community-level justice systems for enforcing indigenous rules on resource ownership, extraction and use





**Thank You
Very Much!!!**

**Maraming
Salamat Po!!!**

**Salamat hin
Doro!!!**

**Terima
kasi!!!**

**Daghan
kaayong
Salamat!!!**

