

Abstract

Contribution of "Traditional PIM that is harmonized with conditions in Asia" to enhancement of Integrated Water Resources Management

Yasuhiro OCHII

*Counselor; Operation and Maintenance division, Toyogawa Canal Management and Construction
Department, Japan Water Agency (JWA)*

Integrated Water Resources Management (IWRM) aiming the comprehensive adjustment for water resources management from the viewpoint of demand control is considered to be one of the probable countermeasures against the critical situation on water problem. A lot of discussion and topics regarding IWRM have been, thus far, concentrated on the situation of arid and semi arid region where the value of water is normally precious and water allocations between stakeholders are always in tense.

However, there has not been enough discussion from the viewpoint of the region of humid climate such as the monsoon Asia having the special feature as follows;

- Value, in the economic meaning, of existing water in monsoon region is low in normal time, and
- Value of water becomes extremely high in the time of sudden drought period.

Thus, the fluctuation of tense on the water demand between stakeholders in monsoon Asia region is very wide. Most of past discussion has not been considered the actual condition of water usage and water management method developed/firmly established in the history based on the above-mentioned feature.

In this paper, firstly, the features/differences of water problem between the regions of arid & semi-arid region and the humid region such as Asia monsoon region are examined, after that needs for further discussion about IWRM in humid region are pointed out.

Also, examples of Traditional PIM that is harmonized with conditions in Asia formulated through the rice production/paddy in community level and actual project, called Toyogawa Canal Project which is well managed by Japan Water Agency in cooperation with Land Improvement District whose origin is a traditional PIM in Japan are introduced.

After that, importance of facilitating the examination about IWRM for the humid region such as monsoon Asia toward the future are emphasized.