

Water Footprint Analysis in Kanto basin zone, Japan by compiling the Kanto Interregional Input-Output Table

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We have a detailed picture of water inducement of Kanto region, Japan as water footprint. To analyze waterfootprint in Kanto region we compile the Kanto Interregional Input-Output Table. Previously we have interregional input output table in Japan among Kanto Hokkaido Tohoku Chubu Kinki Chugoku Shikoku Kyushu and Okinawa made by Ministry of Economy Trade , and Industry. However we don't have interregional input output table within the Kanto region, compared to Kinki region which is made by KISER. Therefore it is significant to compile the Kanto Interregional Input-Output Table. We decide the range of Kanto region ,Tokyo Kanagawa Chiba Saitama Ibaraki Gunma Tochigi Niigata Nagano Yamanashi and Shizuoka. Therefore we compile the Kanto Interregional Input-Output Table as 11 regions by 28 sectors. Kanto region include Tokyo Metropolitan area which have 30 Million inhabitants. Basically the estimation about interregional trade of Kanto region is operated by the census of commodity distribution in Japan. Secondly we estimate the water use by sector about 11 region by census of manufactures.

The method of calculation of regional water footprint is based on the model of interregional inducement by input output analysis.

The result is that Tokyo Metropolitan area such as Tokyo Kanagawa Saitama Chiba leave water footprint towards surrounding area such as Ibaraki Tochigi Niigata Shizuoka. The result have important information that some region use their water for other region. The result also gives useful information for regional water management.