AN ASSESSMENT OF WATER RESOURCES FLOWING OUT OF SELECTED SMALL AGRICULTURAL CATCHMENTS OF WADOWICE PLATEAU

Key words: catchment, outflow, outflow coefficient, precipitation

Summary

The work aimed at assessing water resources flowing out of small agricultural catchments of Wadowice Plateau. The studies were carried out in the hydrological years of 1999-2001 in the area of three microcatchments: Górka, Barnczak and Wronowiec of surface areas of 0.87, 1.21 and 1.60 km² respectively, situated in western part of Małopolska province.

The highest annual outflow layer of 524 mm was recorded in Wronowiec micro catchment. It exceeded by respectively 74 mm (16%) and 153 mm (41%) the outflows noted in Barnczak and Górka. Mean annual outflows from the studied micro catchments constituted between 41% and 54% of pre-cipitation. From 29 to 60 mm less water flowed out in the winter half-year than in the summer but the outflow relationships between the half-years were differentiated. Outflow coefficients in the winter periods in all studied objects were higher than the values noted in the summer half-years.

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