



Water balance of the Drini i Bardh River Basin, Kosova

Sabri Avdullahi and Isalm Fejza

University of Prishtina, Faculty of Mining and Metallurgy, Hydrogeology, Mitrovica, Republic of Kosova, Albania
(sabriavdullahi@hotmail.com, + 381 38 245844)

Republic of Kosova lies on the highlands (500-600 m above sea level) surrounded by the mountains reaching the altitude of more than 2000m. Lower mountains divide the highland plain into four watershed areas, from where waters flow to three different seas, namely to the Adriatic Sea, the Aegean Sea and the Black Sea. In the present day world, the problems of too much, too little or too polluted water are increasing at a rapid rate. These problems have become particularly severe for the developing countries, adversely affecting their agriculture, drinking water supply and sanitation. Water resource management is no more just a challenge it is a declared crisis. Water resources in Kosova are relatively small, total amount of water in our country is small around 1600 m³/inhabitant /year Drini i Bardhë river basin is in the western part of Kosova, it is the biggest river basin with surface of 4.289 km². Drini i Bardhë discharges its water to Albania and finally to the Adriatic Sea. The area consists of several small streams from the mountains, water flows into tributaries and Drini i Bardhë River. In this river basin are based 12 hydrometric stations, 27 manual and 5 automatic rainfall measurements Drini i Bardhë River main basin contains a big number of sub basins from which the most important are: Lumëbardhi i Pejës (503.5km²), Lumëbardhi i Deçanit (278.3km²), Erenikut (515.5km²), Burimi (446.7km²), Klinës (439.0km²), Mirushes (334.5km²), Toplluges (498.2km²), Bistrica e Prizrenit (266.0 km²) and Plava (309 km²) fig 2. For evapotranspiration measurement we have applied four methods: the method of BLANEY – CRIDDLE, radiation, SCHENDELE and Turk.

Protecting from pollution is a very important issue having in consideration that this river discharges its water and outside the territory. Hydrometeorology Institute of Kosova is in charge for monitoring of water quality.

Key words: rainfall, flow, evaporation, river, evaporation coefficient (Ke) and feeding coefficient from underground waters (Ku).