RESULTS OF THE RAINSTORM IN THE CHANNEL OF THE SMALL WATERCOURSE

Key words: cloudburst, small water course, channel erosion

Summary

As a result of the cloudburst on 25th July 2001 one of affluents of the Lubrzanka River in the Świętokrzyskie Mountains was affected by strong erosion of the stream channel. It began with the destruction of the road culvert in upper section of the eroded channel. Presumable hydraulic conditions (discharge and velocities), characteristics of the soil material of which the stream channel was formed, permissible velocity and characteristics of the channel after erosion are presented in this paper. Total volume of the ground material taken away by water was around 5,700 m$^3$, out of which c. 400 m$^3$ were deposited in the channel of the Lubrzanka River and in the retention reservoir Cedzyna.