

Szkoła Główna Gospodarstwa Wiejskiego
w Warszawie
Wydział Budownictwa i Inżynierii Środowiska

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Analiza przepustowości zastawki dokowej instalowanej na ujęciach wody w systemach nawodnień podsiąkowych

Analysis of sluice gate capacity for irrigation water intakes

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Summary

Analysis of sluice gate capacity for irrigation water intakes

The objective of the study was the analysis of sluice gate capacity for irrigation water intakes. The work used the results of own measurements collected during the research using a laboratory model. The results were developed using two methods, one used in Poland and the other in the United States. Based on the obtained results it was found that it is no possibility to determine a permanent location for water level measurement which would allow to calculate the real flow rate. However, it has been shown that there is a strong relationship between the depth of the water at the discharge and the characteristic depths of the lower water, which allows determining the expenditure of the tested structure.

Keywords: analysis, sluice gate flow, flow rate, irrigation