

Hydrological Persistence Characteristics of Floods and Droughts of the Surma-Khushiara River System using Floods Duration Curves and Drought Duration Curves

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- Drought
- Duration Curve (DDC);
- Stream Flow;

Abstract: The Surma - Kushiara river basin is significant and unique in Bangladesh concerning the diversified climate. Severe weather events like floods and droughts frequently occur here. The flood duration curve (FDC) and drought duration curve (DDC) were employed in this study to evaluate the hydrological characteristics of floods and droughts for stream flow at the outflows of the Surma and Kushiara basins, respectively, in Sylhet and Sherpur. FDC and DDC depict the extreme (lowest or highest) average of a hydrological quantity (precipitation or stream flow) over many periods with varying probabilities of occurrence. Duration curves are generated only for stream flow. The curves show the yearly variation of the annual maximum (FDC) and minimum (DDC) of moving averages of streamflow across various time intervals. This indicates that, in comparison to its mean stream flow, the Surma River experiences a greater seasonal variation in extreme stream flow for both high and low discharge. It has been determined that persistence structures exhibit several distinctive characteristics that can be used in flood control systems, operation reservoirs to mitigate drought, and implications for the development of policies for managing water resources during droughts and floods.

1.0 Introduction

Bangladesh is an agricultural country. One of the main causes of it is that Bangladesh is a land of rivers. Both big and Small River has crisscrossed the whole of Bangladesh. The Surma and Kushiara are the major rivers in Bangladesh situated in the northeastern part of the country. The Surma and the Kushiara Rivers flow long distances through Bangladesh. The length of the Kushiara River is about 248 km and the Surma River is about 360 km. Surma River also drains one of the world's heaviest rainfall areas e.g. about 1,000 cm at Cherapunji, Meghalaya, India. Flooding occurs every year in this region, which has a great influence on the way of living of the local population, on the natural resources, and on the economic stability of the region. Floods and Droughts have enormous social, environmental, and economic consequences, which continue to present dynamic challenges worldwide. It badly needs of understanding the characteristics of these climate extremes for prediction, prevention, preparedness, mitigation, and risk management.

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