1. Introduction

Hydrology and Water Resources Services Division (HWRSD) is one of the four Divisions of the Centre, responsible for generating and disseminating information and services related to hydrology and water resources.

The Division collects and archives daily data from river gauging stations located across the country, to keep updated on the status of the flow, the Division is coming up with Monthly Flow Monitoring Report in selected hydrological stations located in different river basins. Currently, following stations (figure 1) are selected for monthly monitoring of the flow;

1. Lungtenphu station in Wangchhu,
2. Kerabari station in Punatsangchhu basin
3. **Wangdirapids station in Punatsangchu basin**
4. Kurjey station in Chamkharchhu basin
5. Kurizampa station in Kurichhu, Manas basin
6. Sumpa station in Kurichhu, Manas basin
7. Panbang station in Dangmechhu, Manas basin

The main objective of the report is to understand and keep updated flow status of the river and further provide information on the abnormal data observation while comparing with the historical flow data.

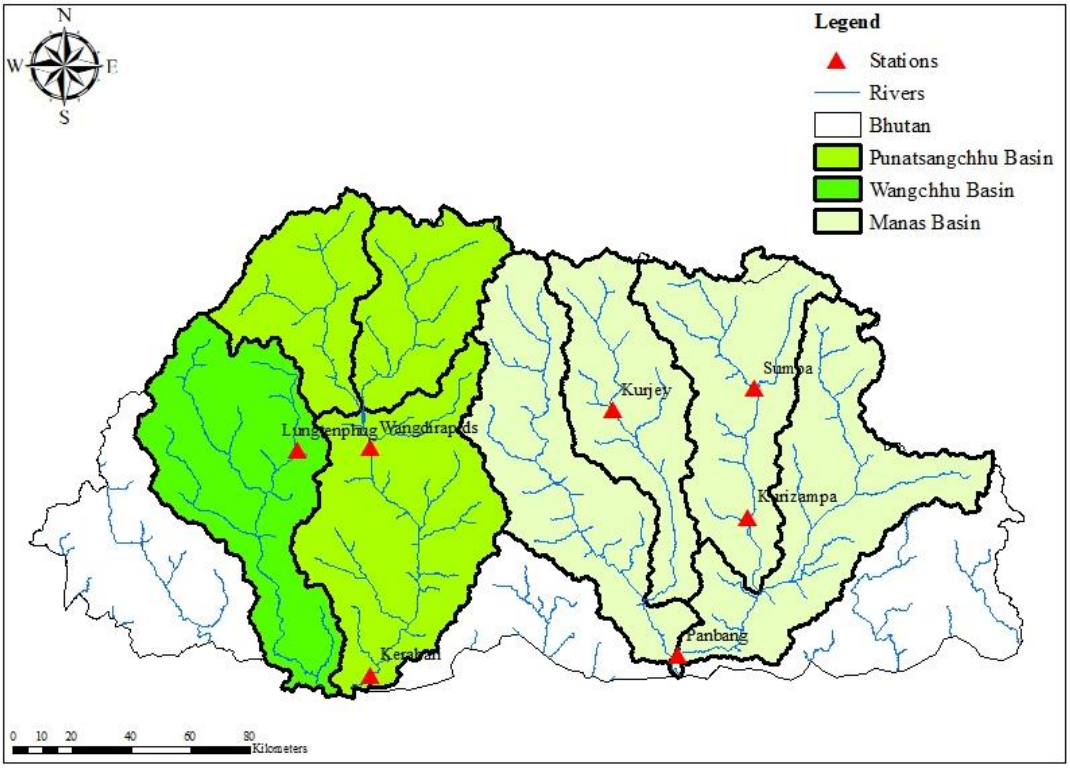

Figure 1 Map showing the selected stations for Flow monitoring

2. Methodology

The flow of June 2022 is compared to the flow of historical June months. The historical flow data is available from 1992 to 2021. The measures of dispersion such as mean, maximum and minimum flows are computed to make comparison.

3. Observation

The mean flow recorded for the month of June 2022 was 478.86m^3/s which is higher than the mean Historical June months (i.e., 428.12m^3/s). Maximum flow of June 2022 (i.e., 865.56m^3/s) was observed to be lower than the maximum flow observed in the past June months (i.e., 1447.21m^3/s). Meanwhile Minimum flow of June 2022 (i.e., 233.62m^3/s) was observed to be higher than the past June months (153.06m^3/s).

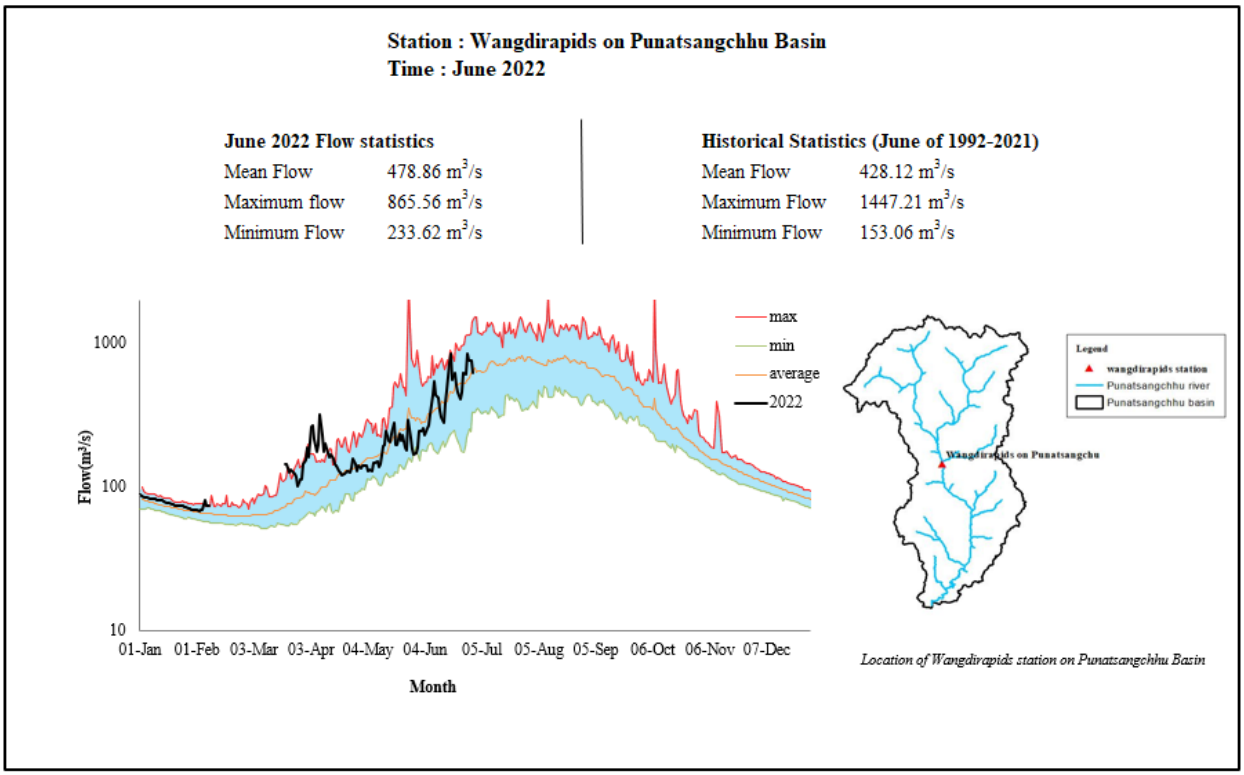

Figure 2 Daily flow status of June 2022 as compared to historical daily flow data of June months

Table 1 Table of flow statistics comparison June of 2022 and historical June months (1992-2021).

Statistics	June 2022 (m^3/s)	Historical June (1992-2021) m^3/s
Mean flow	478.86	428.12
Max flow	865.56	1447.21
Min flow	233.62	153.06

4. Summary

1. The mean flow of June 2022 is observed to be 50.74m^3/s higher than the mean of Normal flow (Historical June).
2. The Maximum flow of June 2022 was lower than the maximum flow observed in the past June months by 581.65m^3/s.
3. The Minimum flow of June 2022 was higher by 80.56m^3/s from the past June months.