



**GOVERNMENT OF PAKISTAN
PRIME MINISTER'S OFFICE
NATIONAL DISASTER MANAGEMENT AUTHORITY
ISLAMABAD**



Islamabad the 24 June 2024

Subject: **Monsoon Infrastructure Advisory – Pre-disaster Phase for Communication Infrastructure**

1. As Pakistan's **southwest monsoon season**, which lasts from June to September, it is anticipated that communities and surrounding areas along rivers would be **impacted by Monsoon 2024**. In addition, there is a possibility of flash flooding and urban flooding in Pakistan's major cities due to changes in overall spectrum of country's climate. The **susceptible districts and their infrastructure** that are anticipated to be impacted by the monsoon season in the month of June and July 2024 are depicted in the following maps:

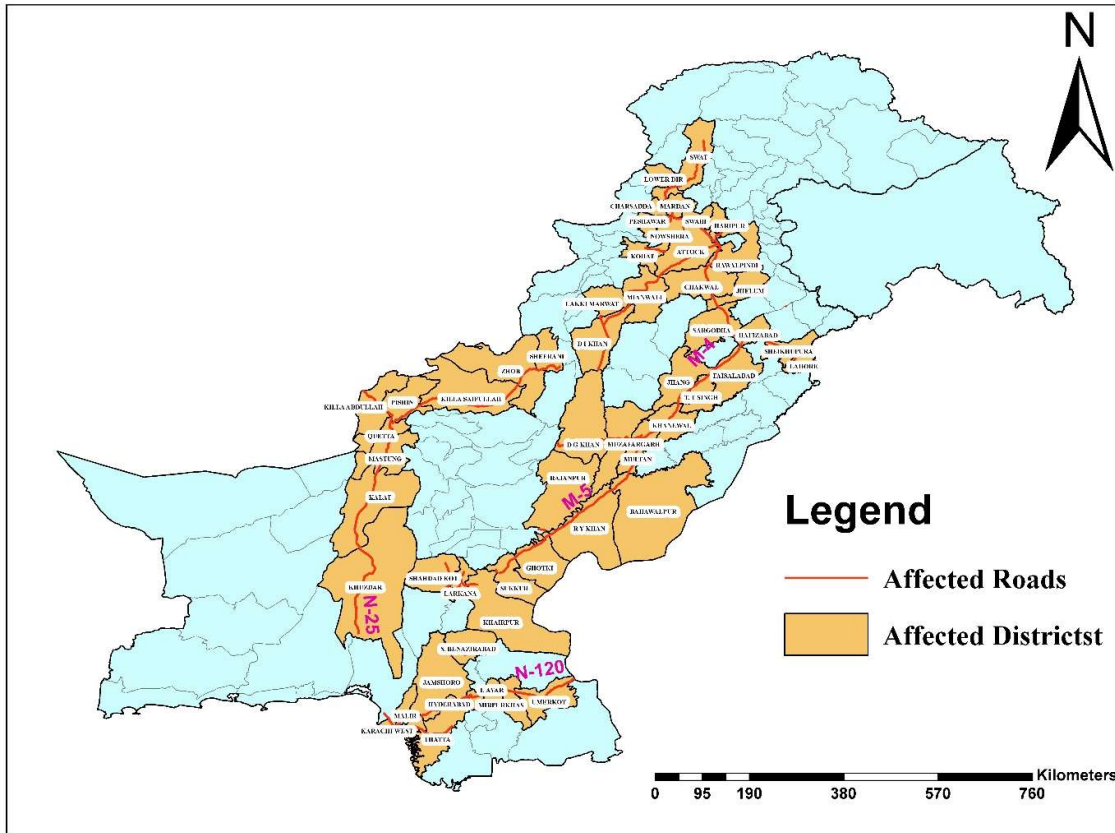


Figure 1 Expected Vulnerable districts and roads in June 2024 (Source NEOC, NDMA)

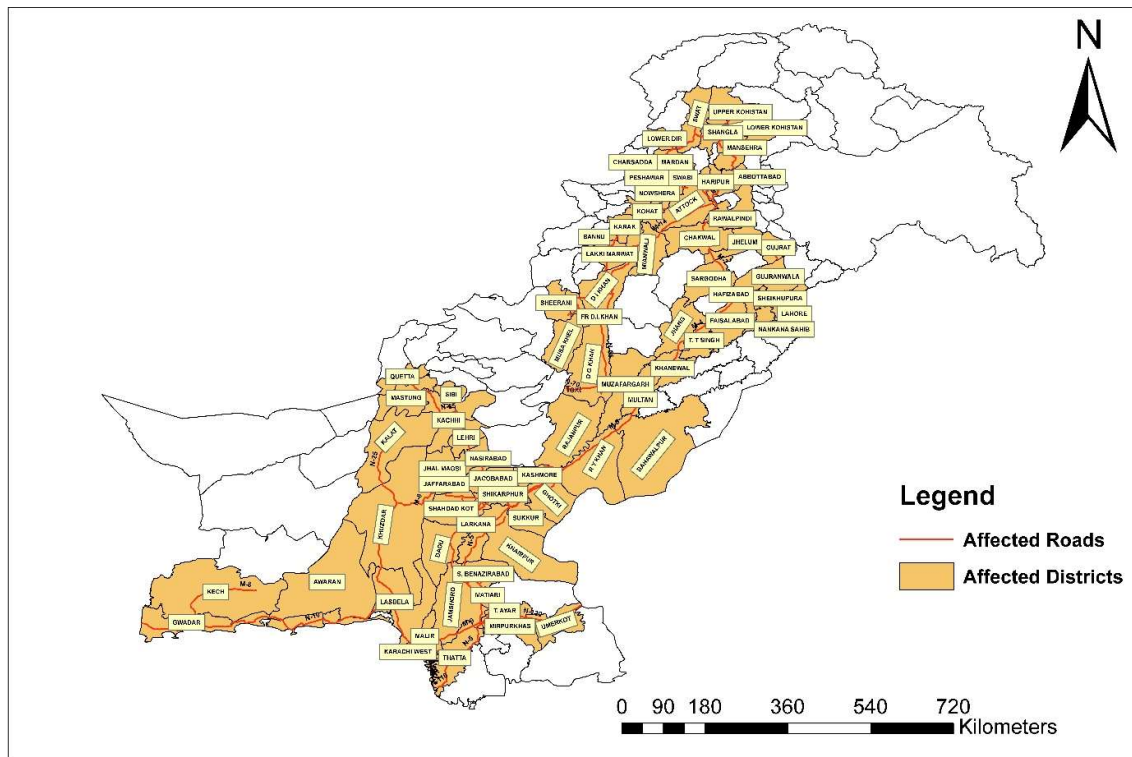


Figure 2 Expected Vulnerable Districts and roads in July 2024

2. In the light of anticipated situation, **the following actions are to be ensured** by all addressed Federal / Provincial Departments to minimize damage to structures and ensure continued flow of traffic:
- a. Conduct thorough **inspections of roads, bridges, and drainage systems** to assess any vulnerable structure that will be damaged by the monsoon rainfall and flooding. **Retrofitting and strengthening measures** should be taken for the safety of the structure and public. **Alert should be circulated** for any damageable structure for safety of the public during the monsoon season.
 - b. Ensure that drainage systems are **free of debris** and **functioning properly** to prevent water accumulation on roads. This includes cleaning of cross drainage structures such as culverts, gutters, road drains, house drains and manholes. Effective measures be taken for **streamline flow** of stormwater during heavy rains.
 - c. Develop and implement a comprehensive **flood response plan**, including identification of **alternative routes** that can be adopted by the public and **evacuation plans** in the event of any structural damage.

- d. The maintenance crews should be trained and updated regarding **emergency response procedures** in the event of any structural damage during rains and possible flooding. Establish a **rapid response team** that will handle road and bridge repair during and after floods.
- e. Ensure the availability of the necessary equipment and materials that will be required for quick repairs. Furthermore, ensure adequate **stockpiles of essential materials** (e.g., sandbags, barriers, repair kits) at critical locations.
- f. **Undertake circulation of information and mass awareness** for the general public on possible flood risk covering the following aspects:
 - 1) Information on alternative routes and emergency contacts for the possible flood affected areas.
 - 2) Instruct people to avoid walking or driving through floodwaters.
 - 3) Informative guidelines on flood safety measures, proper driving techniques in flood conditions, and steps to take during an emergency including trapped in vehicle during flooding.
- g. The concerned departments are instructed to follow the flood alert advisories issued from time-to-time on NDMA Website, <http://www.ndma.gov.pk/advisories> and NDMA Mobile Application.