Introduction:

The district has been traditionally vulnerable to different natural disasters on account of its unique geo-climatic condition. Flood, Drought, Earthquake (Zone-III), Fire incidents, Hailstorm, Heat waves, and Cold waves have been natural hazards through which district is vulnerable. Among these district is highly vulnerable to Flood due to its geographical condition and the Ghaggar river basin.

The river Ghaggar sometimes gets flooded during monsoon and causes extensive damage to crops and property. In the District, the Ghaggar and the Markanda rivers are important seasonal rivers flows through the northern part of the district (covering Guhla block) in westerly direction and enters Patiala district of Punjab. The Ghaggar starts from Shivalik Hills of Himachal Pardesh and passes in the direction of North-East of Haryana State and South-West to Punjab State. The flood water of the Markanda River, Tangri Nadi and Patiala Nadi is being entered in the Ghaggar River. During the year 1993 and 1995 ever recorded flood were received in river Ghaggar with a gauge of 30.4 feet and with a discharge of above 1.4 lacs Cusecs. Due to this flood, Ghaggar Bund which has been constructed parallel to Ghaggar river in the left side of Ghaggar has breached at 7 places (Bund: Kharan, Urlana, Kassor Kassauli Bhatian, Cheeka town, & Tatiana) which caused damage to the crops, properties and lives.
The Ghaggar Basin & Drainage: The Ghaggar river basin is a part of Indus basin.

It covers an area of 27882 Sq km or 63% of Haryana’s area in the districts of Ambala, Kaithal (in part), Kaithal, Fatehabad, Kaithal, Jind, Hisar, Bhiwani, and Mahendragarh. The Ghaggar River runs along the boundary between Haryana and Punjab states, crossing it at several points. Though less severe than in the Yamuna Zone, flooding in this Zone is exacerbated by cross-Ghaggar inflows (from the Punjab) in the districts of Kaithal, Fatehabad and Kaithal. Constructed embankments along the Ghaggar river and its tributaries have reduced the frequency of inundation but not eliminated it as heavy rainfall and inflows across the Ghaggar river, still persist.
Flood Affected Villages in Guhla Sub Division, Kaithal