

# Cropped area affected due to flooding in part of Uttar Pradesh State

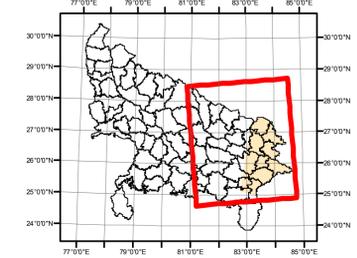
Flood Layer is derived by DMSG, NRSC based on the analysis of SENTINEL 1A SAR, RADARSAT-2 SAR & Resourcesat-2A AWiFS satellite datasets of 01, 05,09,10,12,14,17,19,20,22 & 24-August-2020



DISASTER EVENT ID: 05-FL-2020-UP  
MAP ID: 2020/UP/18

Date of Issue : 27.08.2020

## Location Map



## About the Event

Consequent to the onset of monsoons, heavy rains lashed Uttar Pradesh state in first fortnight of August 2020. Widespread damage was reported to the kharif cropped areas due to incessant rains and flooding. In Uttar Pradesh, the major kharif crop is paddy, followed by limited cultivation of maize, pulse and vegetables.

## Satellite Observations

This map indicates the probable kharif cropped area and kharif rice area inundated due to the rainfall and flooding. The map pertains to the time period of inundation during Aug 1-24, 2020.

## Satellite data used

Pre Flood:  
Satellite: IRS ResourceSat2  
Sensor: AWiFS  
Date of Pass: 03-March-2020

Post Flood:  
Sentinel 1A SAR image of 01-08-2020  
Sentinel 1A SAR image of 05-08-2020  
Sentinel 1A SAR image of 09-08-2020  
Sentinel 1A SAR image of 10-08-2020  
Sentinel 1A SAR image of 12-08-2020  
Sentinel 1A SAR image of 14-08-2020  
Sentinel 1A SAR image of 17-08-2020  
Sentinel 1A SAR image of 19-08-2020  
Resourcesat-2A AWiFS image of 20-08-2020  
RADARSAT-2 SAR image of 22-08-2020  
Sentinel 1A SAR image of 24-08-2020

## Other data used

NRC Landuse/Landcover Data  
Potential Kharif Rice Area, ASAG, NRSC

## Legend

- Settlements
- State boundary
- - - District boundary
- Railway
- Major roads
- Normal river / Water bodies
- Flood Inundation

## Probable Crop Affected Areas

- Probable kharif rice area inundated (Aug 01 - Aug 24, 2020)
- Probable kharif cropped area inundated excluding Rice Area (Aug 01 - Aug 24, 2020)



This product is prepared on rapid mapping mode for immediate use. This provides preliminary results.

Flood inundation may include rain water accumulation / flood water in low lying areas.

All geographic information has limitations due to the scale, resolution, date and interpretation of the original source materials.

No ground verification is done.

Agricultural Sciences and Applications Group  
National Remote Sensing Centre, ISRO  
Dept. of Space, Govt. of India  
Hyderabad- 500 037  
E-Mail: flood@nrsc.gov.in  
www.nrsc.gov.in



nrsc