NEPAL

GANDAKI, LUMBINI, BAGMATI AND MADHESH PROVINCES

IMAGERY ANALYSIS: 29/09/2024 PUBLISHED 30/09/2024 V1.

ANALYSED AREA	FLOOD EXTENT	TOTAL POPULATION IN ANALYSED AREA	POPULATION POTENTIALLY AFFECTED
~20,000km²	110km²	~5.2 M	~58,000

Province/District	Analysed area (km2)	Total population in analysed area	Flood extent in analysed area [29 Sep. 2024] (km²)	Population potentially exposed [29 Sep. 2024]
Gandaki	**6,710**	**1,112,844**	**13.96**	**2,532**
Gorkha	589	65,830	0.20	105
Kaski	2,085	356,932	0.26	218
Nawalparasi East	1,426	248,847	10.60	1,521
Syangja	1,038	206,160	0.87	230
Tanahu	1,572	235,075	2.03	458
Lumbini	**10,715**	**2,567,071**	**62.11**	**30,321**
Arghakhanchi	1,239	134,437	0.48	83
Dang	3,011	460,417	6.50	1,130
Kapilbastu	1,651	588,452	23.51	14,315
Nawalparasi West	726	275,973	14.88	5,241
Palpa	1,462	181,369	0.50	129
Pyuthan	1,321	173,099	0.25	37
Rupandehi	1,305	753,324	15.98	9,386
Madhesh	**791**	**1,015,458**	**9.76**	**23,226**
Parsa	791	1,015,458	9.76	23,226
Bagmati	**2,186**	**492,864**	**24.87**	**1,979**
Chitawan	2,186	492,864	24.87	1,979
Total	**20,402**	**5,188,237**	**110.69**	**58,058**

Spatial Reference
Name: WGS 1984 UTM Zone 45N
PCS: WGS 1984 UTM Zone 45N
GCS: GCS WGS 1984
Datum: WGS 1984
Projection: Transverse Mercator

Satellite : Sentinel-1
Image Date: 29 September 2024 at 12:30 UTC
Resolution: 10 m
Copyright: Contains modified Copernicus Sentinel data [2024]
Source: ESA

Permanent water: © ESA WorldCover project 2021/ Contains modified Copernicus Sentinel data (2021) processed by ESA WorldCover consortium
Road: OSM
Populated place: OSM
Population data: Worldpop Unconstrained UN adjusted 2020 (100m resolution)

Background: ESRI Basmap
Analysis: United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT)

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UNOSAT United Nations Satellite Centre

FLOOD
FL20240928NPL



Satellite detected water extent in Gandaki, Lumbini, Bagmati and Madhesh Provinces as of 29 September 2024

This map illustrates the floods using Sentinel-1 images acquired on 29 September 2024 at 18:15 local time (12:30 UTC). Within the analysed area of about 20,000 km², a total of about 110 km² of land appears to be affected by flood waters. Based on Worldpop spatial demographic data, about 58,000 people are exposed or living close to flooded areas.

This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to the United Nations Satellite Centre (UNOSAT).

Important note: Flood analysis from radar images may underestimate the presence of standing waters in built-up areas and densely vegetated areas due to the backscattering properties of the radar signal.

Legend

- City/Town
- International boundary
- Province boundary
- District boundary
- Analysis extent
- Reference water
- Saellite detected water extent [29 Sep. 2024]

Map scale for A3: 1:480,000

N 0 5 10 20 km