

ADAM

Advanced Disaster Analysis & Mapping

Flood Impact Analysis Mozambique

Update #3

Maximum Flood Extent
12 March 2025

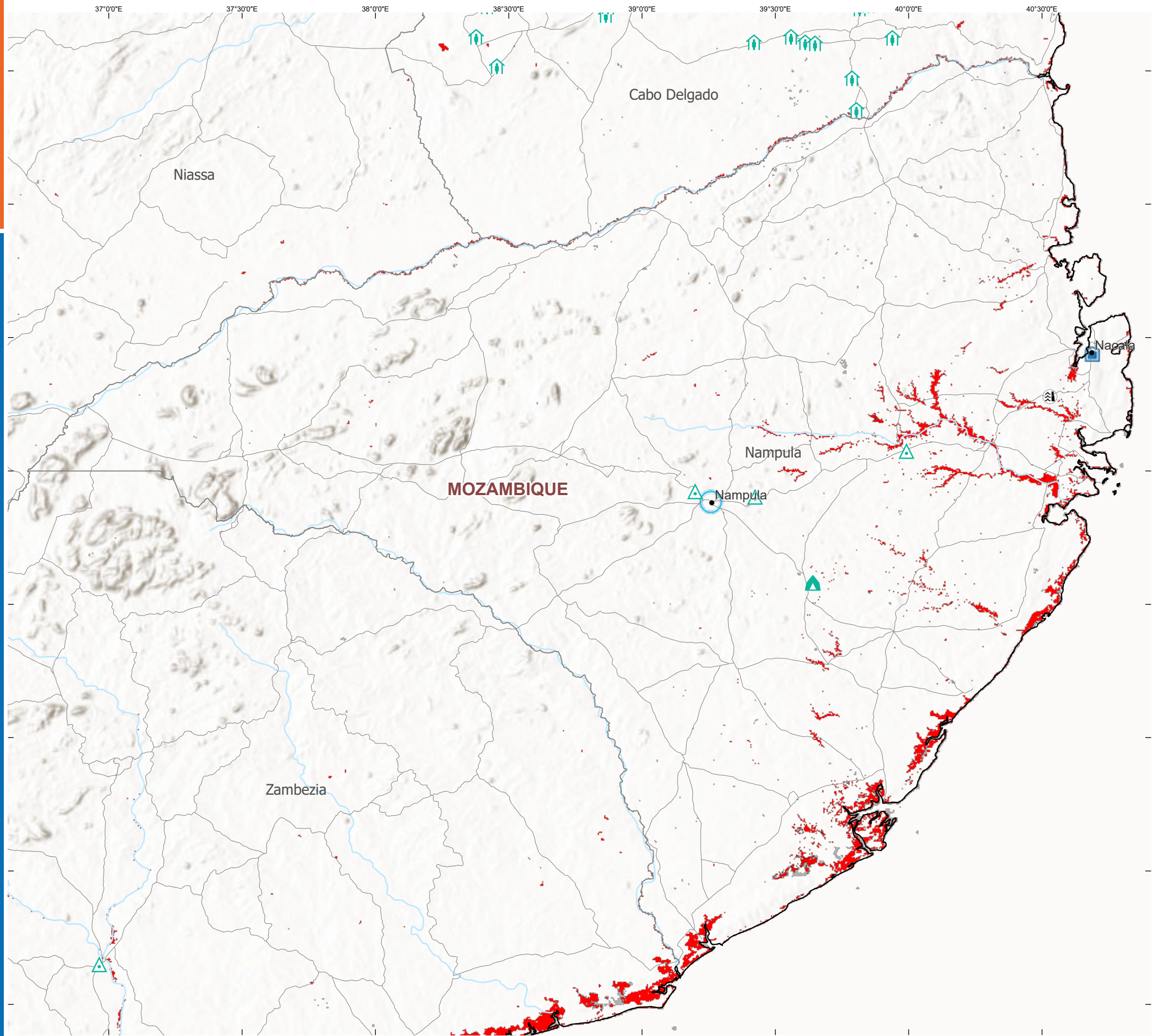




Mozambique



World Food Programme



- | | | | |
|---|------------------|---|--|
|  | Country Office |  | River |
|  | Field Office |  | Road |
| | |  | International Boundary |
|  | Sub Office |  | Administrative Boundary 1 |
|  | Warehouse |  | Special boundary line; Armistice, undetermined or administrative line; Autonomous region boundary; Other; Sovereign base limit |
|  | National Capital |  | Permanent Water Bodies |
|  | Major City |  | Dam / Reservoir |
|  | City | | |

*Satellite Observed Water Extent

 Observed Flooded Area

 Historical Maximum Flood Extent
MODIS 2000 - 2018

Source: DFO and Cloud2Street

**Data displays the maximum combined NOAA VIIRS and Floodscan flood extent detection on the date specified on the map*

Population of Concern (UNHCR)

-  IDP, formal settlement
-  IDP, centre
-  IDP, individual accommodation in communities

Rapid Flood Impact Summary



324,561

Total observed flooded
or inundated area (hectares)



155,410

Total number of people
living in the flooded pixel



13,982

Total flooded
cropland areas

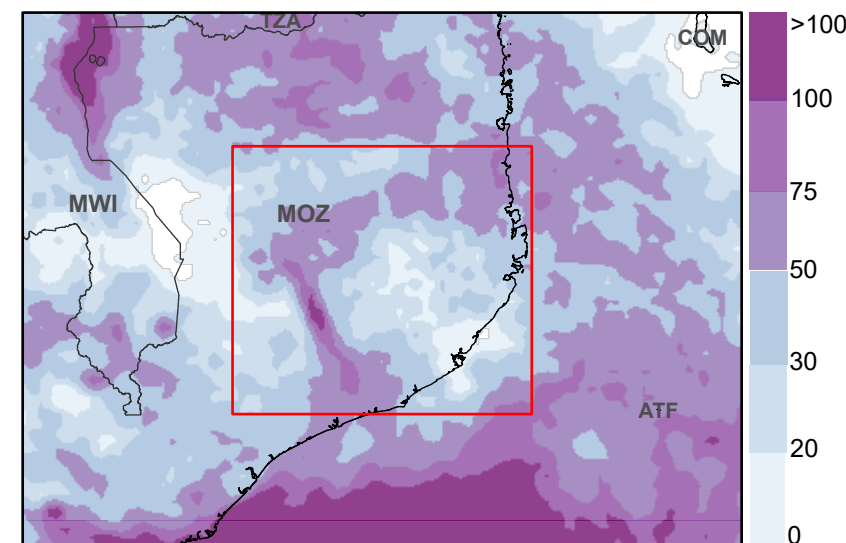


58,686

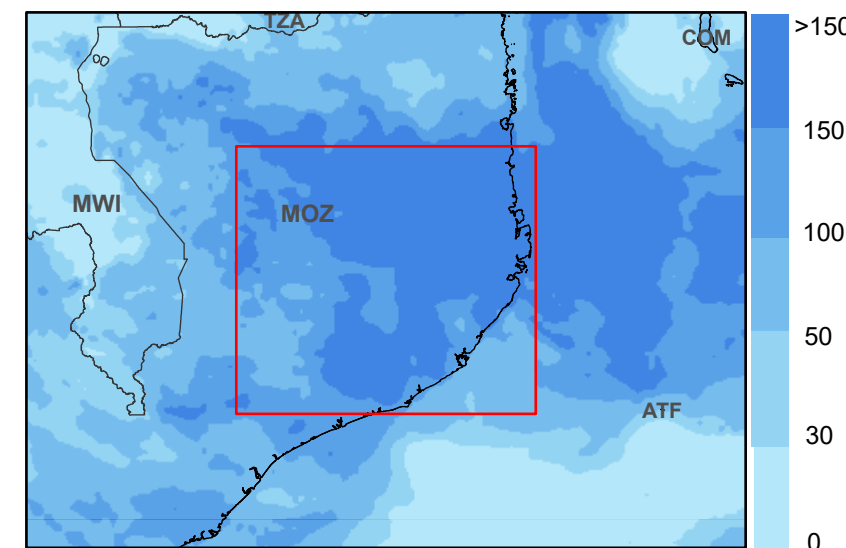
Total number of vulnerable population in the flooded area



Next 5-days rainfall forecast



● Past 7-days rainfall accumulation



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Environmental Research

Joint Research Centre

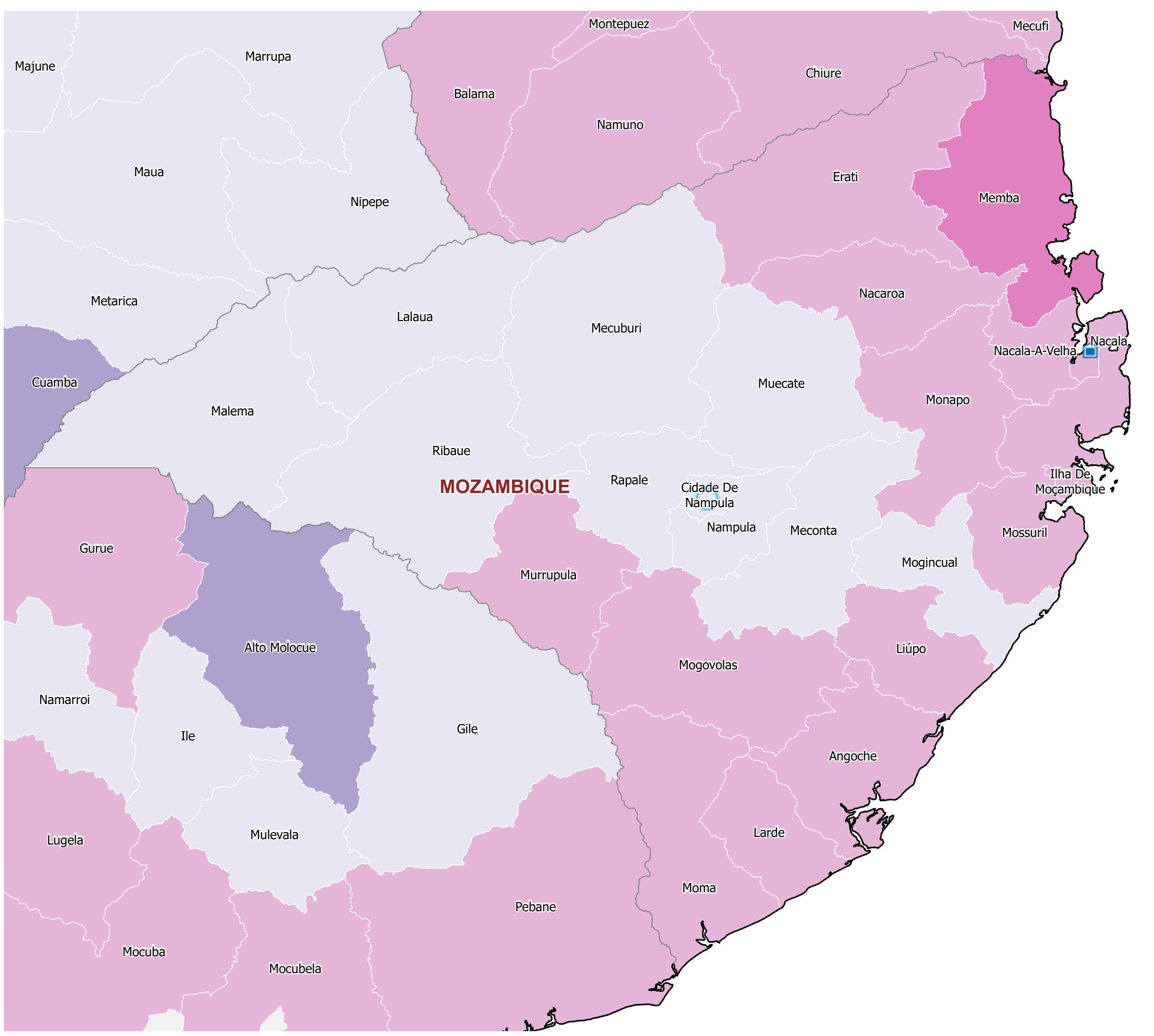
The designations employed and the presentation of material in the map(s) do not imply the expression of any opinion on the part of WFP concerning the legal or constitutional status of any country, territory, city or sea, or concerning the delimitation of its frontiers or boundaries.

Data sources: WFP offices: WFP - Boundaries: UN Map, WFP - Roads: ©OpenStreetMap Contributors - Populated places: GeoNames - Accumulated rainfall: GPM - Weather forecast: ECMWF - Flood Detection: NOAA-VIIRS, MODIS NRT, ESA Sentinel 1 - IDP/Refugee Locations: UNHCR - Terrain: ESRI - Surface Water/Seasonality:JRC - Cropland Mask: NASA GFSAD30 - Population: WorldPop / GHSL - Maximum Flood Extent: NASA MODIS/DFO and C2S

Date Created: 12 Mar 2025 - Contact: wfp.adam@wfp.org

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Prepared by
HQ GIS Unit
WFP Emergencies





Country Office



Field Office



Sub Office



Warehouse



National Capital



Major City



City



International Boundary



Administrative Boundary 1



Special boundary line; Armistice, undetermined or administrative line; Autonomous region boundary; Other; Sovereign base limit

Potentially impacted population

1 - 1K

1K - 10K

10K - 20K

20K - 50K

>50K

Estimated flooded cropland (has)

1 - 1K

1K - 10K

10K - 20K

20K - 50K

>50K

Bi-variate color classification (Main Map Frame)

Population Impact

Cropland Impact

High

Low

Low

High

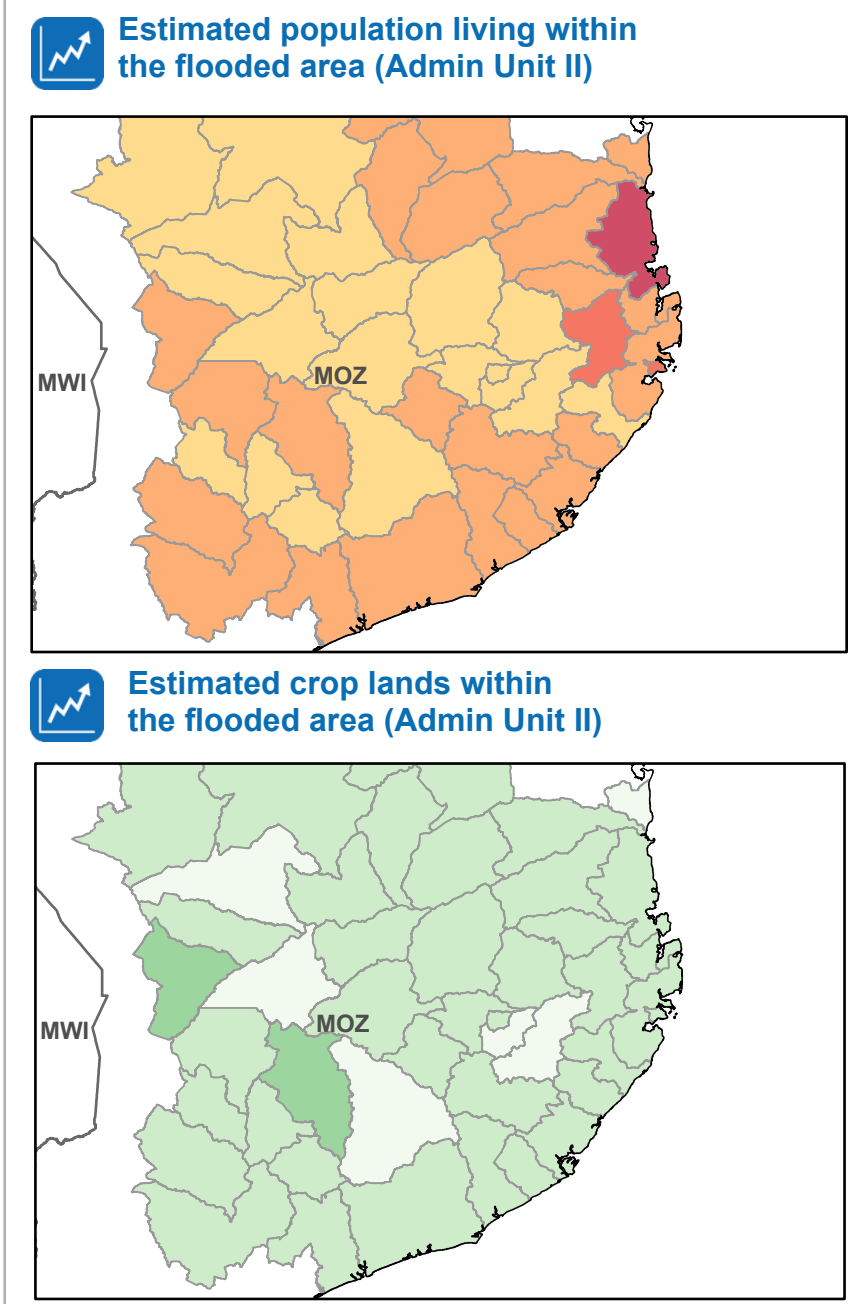
These classes were dynamically derived from the impact estimates on population (Y-axis) and cropland (X-axis) for 9 combinations of low-low and high-high combined impact categories for each administrative level-II (district)



Flood Impact Data Aggregation

Derived data are summarized by administrative unit II (admin2). For any boundary related concerns, please write to wfp.adam@wfp.org. This aggregated information is indicative and for planning purposes only.

Global Data Sources:
Population - WorldPop 2022
Cropland Areas - NASA GFSAD30



Mozambique Flooding

Rapid Flood Impact Analysis Breakdown

**estimated number of people living in the flooded areas with at least 100 people potentially affected per district. Vulnerable population within flooded area are estimates from WorldPop data.*

(Admin unit 1) Region	(Admin unit 2) District	Flooded Area (hectares)	Flooded Cropland (hectares)	Potentially Impacted Population*		
				Total in District	Children (0-9 y.o.)	Elderly (>60 y.o.)
Cabo Delgado	Balama	10,573	279	4,261	169	1,475
	Chiure	21,942	409	7,018	274	2,231
Nampula	Mecufi	26,338	0	6,737	418	2,184
	Montepuez	6,618	229	1,562	64	465
	Namuno	2,439	36	1,289	49	448
	Angoche	6,013	71	7,361	393	2,428
	Cidade De Nampula	40	27	105	2	28
	Erati	38,689	813	9,522	385	3,278
	Ilha De Moçambique	2,173	226	11,400	695	3,483
	Lalaua	5,431	5	746	24	262
	Larde	1,367	32	1,303	55	431
	Liúpo	2,133	7	4,391	213	1,435
	Malema	4,639	1	339	13	114
	Meconta	1,887	0	692	25	219
	Mecuburi	3,994	70	900	33	322
	Memba	55,715	302	24,369	1,054	8,728
	Mogincual	1,993	11	537	26	175
	Mogovolas	5,876	94	4,927	214	1,671
	Moma	2,356	79	3,384	141	1,120
	Monapo	17,253	502	10,969	381	3,671
	Mossuril	7,931	111	6,829	510	2,252
	Muecate	997	158	628	21	212
	Murupula	2,312	35	1,158	49	397
	Nacala	1,242	6	8,112	289	2,379
	Nacala-A-Velha	1,498	46	4,644	273	1,474

Niassa	Nacaroa	5,499	20	1,523	56	520
	Rapale	850	27	427	18	137
	Cuamba	19,675	5,409	6,771	222	2,236
	Majune	6,562	4	103	4	37
	Metarica	4,241	51	379	14	138
Zambezia	Nipepe	2,765	27	433	16	152
	Alto Molocue	9,132	1,877	3,510	121	1,211
	Gile	2,908	1	367	12	124
	Gurue	9,408	998	4,760	145	1,604
	Ile	638	55	285	11	99
	Lugela	4,619	711	1,146	43	404
	Mocuba	3,347	95	4,827	142	1,612
	Mocubela	4,393	333	2,154	77	733
	Mulevala	707	34	201	8	70
	Namarroi	2,840	194	439	15	157
	Pebane	7,886	561	4,685	184	1,622

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