



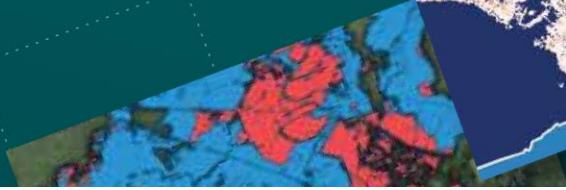
Food and Agriculture
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A rapid geospatial analysis of the impact of **Tropical Storm Ana** in Madagascar, Malawi, Mozambique, Zambia and Zimbabwe

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by Fatima Mushtaq, Amit Ghosh, Rashed Jalal, Josselin Gauny, Daniele Barelli, Quraishia Merzouk, Siphokazi Moloinyane, and Matieu Henry.

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Contents

Acknowledgements	viii
Executive summary	ix
1. Background	1
2. Methodological approach	2
2.1. Definition of the Area of Interest	2
2.2. Regional flood impact assessment	2
2.3. Sub-national flood extent assessment	3
2.4. Cropland impact assessment	3
2.5. Population exposed to floods	3
3. Results	4
3.1. Geospatial impact assessment in Southern Africa	4
3.2. Geospatial impact assessment in Madagascar	8
3.3. Geospatial impact assessment in Malawi	11
3.4. Geospatial impact assessment in Mozambique	14
3.5. Geospatial impact assessment in Zambia	17
3.6. Geospatial impact assessment in Zimbabwe	20
4. Conclusion	23
5. References	24
Annex I – Statistical data of geospatial impact assessment in Madagascar	26
Annex II – Statistical data of geospatial impact assessment in Malawi	50
Annex III – Statistical data of geospatial impact assessment in Mozambique	63

Annex IV – Statistical data of geospatial impact assessment in Zambia 73

Annex V – Statistical data of geospatial impact assessment in Zimbabwe 78

Figures

1. Flooded land area in Southern African countries after Tropical Storm Ana (24 January 2022)	4
2. Inundated cropland in five Southern African countries after Tropical Storm Ana (24 January 2022)	5
3. Flooded land area and inundated cropland in Southern African countries after Tropical Storm Ana (24 January 2022)	6
4. Flood extent in the seven regions of Madagascar (admin level 1) after Tropical Storm Ana (22 January 2022)	9
5. Extent of cropland affected by flood inundation in seven regions of Madagascar after Tropical Storm Ana (22 January 2022)	9
6. Flooded area and inundated cropland at district level in seven regions of Madagascar after tropical storm Ana (22 January 2022)	10
7. Number of affected population by district in seven regions of Madagascar after Tropical Storm Ana (22 January 2022)	10
8. Extent of flooding in two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)	12
9. Extent of cropland affected by inundation in two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)	12
10. Flooded land area and inundated cropland at district level in two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)	13
11. Number of affected population by traditional authority area in two regions of Malawi after Tropical Storm Ana (22 January 2022)	13
12. Flooded area and inundated cropland in five provinces of Mozambique (admin level 1) after Tropical Storm Ana (24 January 2022)	15
13. Extent of flooding in the five provinces of Mozambique due to Tropical Storm Ana (24 January 2022)	15
14. Extent of cropland affected by flood inundation in five provinces of Mozambique after Tropical Storm Ana (24 January 2022)	16
15. Exposure of people to flood in persons in five provinces of Mozambique (admin level 3) after Tropical Storm Ana (24 January 2022)	16
16. Flooded area and inundated cropland at district level in four provinces of Zambia (admin level 2) after Tropical Storm Ana (24 January 2022)	17
17. Extent of flooding in the four provinces of Zambia after Tropical Storm Ana (24 January 2022)	18
18. Extent of cropland affected by flood inundation in four provinces of Zambia after Tropical Storm Ana (24 January 2022)	18
19. Population affected by flooding at district level in four provinces of Zambia (number of persons exposed or living close to the flooded areas) after Tropical Storm Ana (24 January 2022)	19
20. Flooded area and inundated cropland at district level in six provinces of Zimbabwe (admin level 2) after Tropical Storm Ana (24 January 2022)	20
21. Extent of flooding in the six provinces of Zimbabwe after Tropical Storm Ana (24 January 2022)	21

22. Extent of cropland affected by flood inundation in six provinces of Zimbabwe after Tropical Storm Ana (24 January 2022)	21
23. Population affected by flooding at ward level in six provinces of Zimbabwe (number of persons exposed or living close to the flooded areas) after Tropical Storm Ana (24 January 2022)	22
24. Flood area extent by commune (admin level 3) in seven regions of Madagascar after Tropical Storm Ana (22 January 2022)	49
25. Flooded crop area extent in communes of seven regions of Madagascar (admin level 3) after Tropical Storm Ana (22 January 2022)	49
26. Extent of flooding in the two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)	62
27. Flooded crop area extent at the traditional authority level in the two regions of Malawi after Tropical Storm Ana (24 January 2022)	62
28. Flood area extent by postos (admin level 3) in five provinces of Mozambique after Tropical Storm Ana (24 January 2022)	72
29. Flooded crop area extent in postos in five provinces of Mozambique after Tropical Storm Ana (24 January 2022)	72
30. Direct crop damage due to flooding and running water in the very low croplands	75
31. Crop damage due to inundation and the leaching nutrients in the upland fields resulting from prolonged and excessive rainfall	76
32. Flood area extent by district (admin level 2) in four provinces of Zambia after Tropical Storm Ana (24 January 2022)	77
33. Flooded crop area extent in district in four provinces of Zambia (admin level 2) after Tropical Storm Ana (24 January 2022)	77
34. Flood area extent by ward (admin level 3) in six provinces of Zimbabwe after Tropical Storm Ana (24 January 2022)	120
35. Flooded crop area extent at ward level in six provinces of Zimbabwe (admin level 3) after Tropical Storm Ana (24 January 2022)	120

Tables

1. Total number of administrative units identified in each area of interest for each country used to prepare disintegrated statistics	2
2. Total flooded land area and inundated cropland (in ha) of identified area in Southern African countries after Tropical Storm Ana (24 January 2022)	5
3. Total flooded land area and inundated cropland (ha) at sub-national level in Southern African countries after Tropical Storm Ana (24 January 2022)	6
4. Total flooded land area, inundated cropland and population exposed to flood in seven regions of Madagascar at administrative levels 1,2 and 3 after Tropical Storm Ana (22 January 2022)	26
5. Total flooded land area, inundated cropland and population exposed to flood in two regions of Malawi at administrative levels 1, 2 and 3 after Tropical Storm Ana (22 January 2022)	50

6. Total flooded land area, inundated cropland and population exposed to flood in five provinces of Mozambique at administrative levels 1, 2 and after Tropical Storm Ana (22 January 2022)	63
7. Total flooded land area, inundated cropland and population exposed to flood in four provinces of Zambia at administrative levels 1 and 2 after Tropical Storm Ana (22 January 2022)	73
8. Total flooded land area, inundated cropland and population exposed to flood in six provinces of Zimbabwe at administrative levels 1, 2 and 3 after Tropical Storm Ana (22 January 2022)	78

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Executive summary

A low-pressure system was formed in the Indian Ocean, crossed over Madagascar on 22 January 2022, and made landfall on 24 January 2022 in Mozambique, causing great damage to the lives and livelihoods of the population. Reports suggest that heavy rainfall and strong winds have resulted in population displacements, flooding, and damage to public and private infrastructures, particularly in other Southern African countries including Zimbabwe, Zambia, Mozambique, Madagascar and Malawi. (OCHA, 2022a).

However, serious concerns remain about widespread floods, displacements, damage to critical public infrastructure, and private houses, as well as the interruption of basic services, as heavy rains and strong winds continued to hit. Therefore, there is a critical need to understand the impact of the tropical storm on vulnerable people and cropland.

Timely information about the geographic location of the flood impacted areas is crucial to support flood disaster management by contributing to different phases of flood disaster management (i.e., preparedness, response, recovery, and prevention). Remote sensing and geospatial analysis provide updated information about the status and severity of floods by land cover types, with the objective to categorize and prioritize areas of interventions.

In this context, the Food and Agriculture Organization of the United Nations (FAO) Geospatial Unit and needs assesment team of the Office of Emergencies and Resilience (OER) conducted a rapid post disaster impact assessment for the countries affected by the tropical storm based on remote sensing and geospatial analysis to provide updated information at different administrative levels.

The key findings of the assessment are: 1) at the regional level, Mozambique is the most affected country in terms of flooded area (372 560 ha) and Madagascar is the most impacted country in terms of inundated cropland (168 672 ha) and population exposed to flood (11 395 261 persons); 2) at the regional level, a total of 1 042 383 ha area has been inundated by floods, 230 210 ha cropland has been affected and 12 040 660 persons have been exposed to flood; and 3) at admin level 1, Zambezia province in Mozambique (155 542 ha) is the most impacted in terms of flood extent, Alaotra Mangoro province in Madagascar (70 428 ha) in terms of inundated cropland and Analamanga provinces in Madagascar (total 4 806 918 in number) is the most affected in terms of population exposed to flood. Details at the regional and country level can be found in results section of this report.

1. Background

Flooding caused by heavy rains, tsunamis, tropical storms, snowmelt, tidal waves and collapsed dams is one of the most devastating hazards worldwide, affecting people's lives, socio-economic conditions, and ecological systems. Flood hazards are the most common and destructive of all disasters and are a constant threat to lives and properties worldwide (Abdo, 2020; FAO, 2020; Zhang *et al.*, 2020).

In Southern Africa, most countries are extremely vulnerable to the impacts of flood hazard as a result of limited investment in infrastructures, high building vulnerability, settlements in flood zones, economic dependence on agriculture and poorly resourced institutions (Dalu, Shackleton and Dalu, 2018; Dube, Nhamo and Chikodzi, 2021). Many of the affected regions are already struggling with high levels of food insecurity and malnutrition, as well as climate change. Floods also increase the incidence of water borne diseases, impact hygiene and sanitation, and reduce the capacity to put in place effective preventative measures against COVID-19.

A low-pressure system developed in the Indian Ocean and entered the Mozambique channel on 23 January 2022 after crossing Madagascar, and subsequently evolved into a moderate tropical storm. In Mozambique, tropical storm Ana turned into a tropical depression system within 24 hours (National Institute of Meteorology-INAM), significantly affecting Zambezia, Nampula and Tete provinces, and to a lesser extent Sofala, Niassa and Cabo Delgado provinces (OCHA, 2022a). In Madagascar, it caused widespread floods, basic services interruptions, and severe damages to houses, cropland and infrastructure (OCHA, 2022d) including in parts of Malawi, Zimbabwe and Zambia (OCHA, 2022c, 2022d).

Due to the frequency and scale of incidents, urgent and sustainable support is required which can respond to the acute needs of the most vulnerable and displaced people. In this regard, spatial technologies support the capture, management, analysis, and distribution of information across all phases of disaster risk management, and are up-to-date, robust, and cost and time effective. These technologies include remote sensing approach, such as satellite sensors, drones, underwater sensors, aerial surveys, Global Positioning System (GPS), Geographic Information System (GIS) and a multitude of other data gathering sensors (FAO, 2018).

In this context, FAO, in collaboration with international, regional, and national partners, is actively involved in helping communities (both at the national and global levels) to become better prepared for, prevent and mitigate the risk of floods (FAO, 2018), including through the use of innovative geospatial technologies and rapid emergency impact assessment. The objectives of this rapid geospatial emergency impact assessment, considering the limited time and information available to conduct this assessment, are to (1) assess flood extent, (2) identify inundated cropland, (3) assess exposure of people to flood and inundated crops and (4) provide the results in support to regional, national, and local response actors. Available data, and without access to field information, within the period to conduct the assessment may have not captured all kind of damages such as related to flash floods.

2. Methodological approach

The methodological approach used to conduct the analysis presented in this report considers the data and information made available within a limited time. The proposed methodological approach can be enriched and improved with additional data in the future and recommendations are proposed at the end of the report.

2.1. Definition of the Area of Interest

Political and administrative boundaries from the Global Administrative Unit (FAO GAUL), the database of Global Administrative areas (GADM) and Humanitarian Data Exchange (HDX, 2019) were compared for each country (i.e., Mozambique, Malawi, Zambia, Zimbabwe, and Madagascar). Administrative boundaries from HDX were selected because they provide more detailed and updated administrative information, which can be linked with the latest population census or agricultural statistics. A Visible Infrared Imaging Radiometer Suite (VIIRS) flood map (22 - 28 January 2022) was used to delineate Area of Interest (AOI) from the administrative boundaries at level 1. Table 1 shows the number of administrative units in each AOI at levels 1, 2 and 3.

Table 1. Total number of administrative units identified in each area of interest for each country used to prepare disintegrated statistics

Country	Number of units at admin 1	Number of units at admin 2	Number of units at admin 3
Madagascar	7	44	544
Mozambique	5	86	211
Malawi	2	25	298
Zambia	4	48	0
Zimbabwe	6	57	1 273

Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

2.2. Regional flood impact assessment

The VIIRS composited flood product was used to prepare a regional overview of the flood for the period 22 – 28 January 2022. The gaps in Sentinel 1 coverage were filled using VIIRS data (specifically for Zambia, Zimbabwe, and a part of Nampula in Mozambique). The VIIRS five days composite flood extent estimates the maximum water fraction percentages over a moving window of five days. The VIIRS five days composite flood extent estimates were aggregated to provide estimates for the period of 22 – 28 January 2022. A pixel is considered as flooded if 40 percent of it is covered with water during the 5 days window (Real Earth, 2020).

2.3. Sub-national flood extent assessment

Flood extent assessments for each country were conducted for the respective identified areas. The weather independent nature of Synthetic Aperture Radar (SAR) data makes it suitable for flood water detection (Tay *et al.*, 2020). There are numerous methods used to detect flood water using SAR data. The image differencing approach is recommended here, in which SAR images collected pre and peak event are subtracted to obtain a difference image (UN-SPIDER, 2020). A threshold value is determined following a trial-and-error method in addition to the validation using optical imagery (Notti *et al.*, 2018). Areas covered by water for more than 10 months per year are masked out to get the extent of the flood. At 30 m resolution, the SAR imagery covers the water dynamics between 1984 to 2018 (Pekel *et al.*, 2016). Sentinel 1 SAR data from 01 January 2021 – 20 January 2022 were compared with SAR data from 22 – 28 January 2022 to detect floods.

2.4. Cropland impact assessment

Assessments for impacted cropland for each country were conducted for the respective identified areas. The impact on cropland was calculated using the land cover from Worldcover by European Space Agency (ESA) at 10 m spatial resolution. Flooded crop was identified as inundated cropland area. Zonal statistics were extracted based on the HDX administrative boundaries (level 1, 2 and 3).

2.5. Population exposed to floods

Due to the limitations in the data, a vulnerability assessment for the population exposed to floods was conducted. This considers the percentage of flood extent and the population density by administrative levels 1, 2 & 3 for each country, with exception of Zambia (admin levels 1 and 2 only). It is assumed that the more people surrounded by flooded areas, the greater the vulnerability. This vulnerability assessment does not consider cropland information considering that nomadic pastoralism can also be affected by floods.

3. Results

In this section, the results of this impact assessment of Tropical Storm Ana are presented for the target countries and their AOIs: Malawi (central and southern regions); Zimbabwe (Harare, Manicaland, Mashonaland Central, Mashonaland East, Mashonaland West and Masvingo province); Zambia (southern, western, central and Lusaka province); Madagascar (Alaotra Mangoro, Analamanga, Atsinanana, Betsiboka, Boeny, Itasy and Sofia region), and Mozambique (Manica, Sofala, Tete, Zambezia and Nampula province) using HDX boundaries.

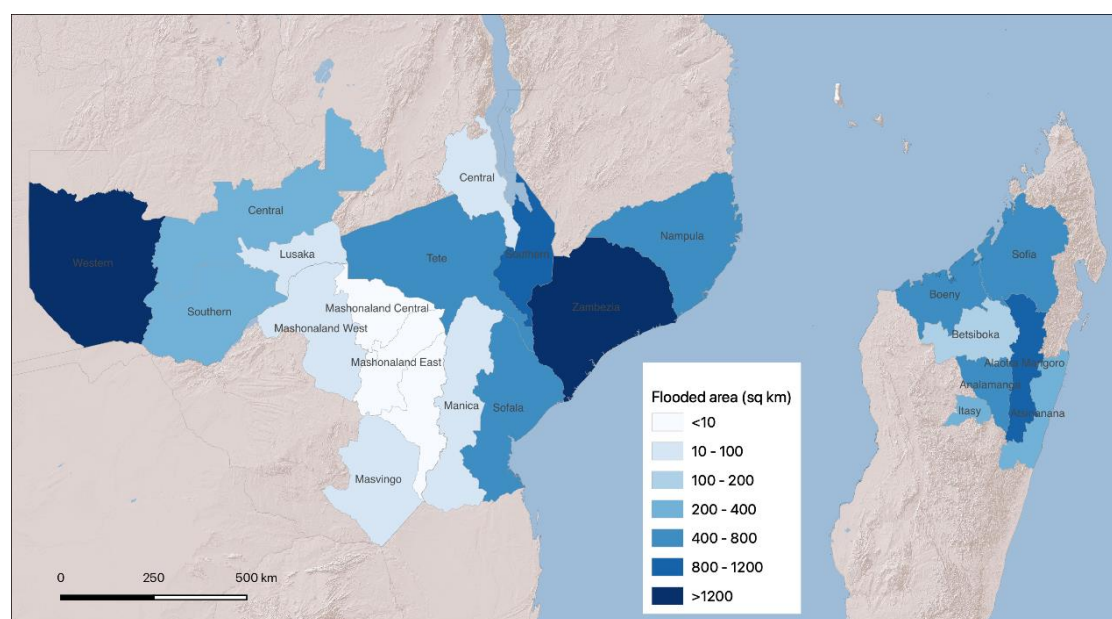
3.1. Geospatial impact assessment in Southern Africa

Results at regional level showed that the most impacted flooded areas are in the Northern region of Madagascar, the Central region of Mozambique, the Central and Southern region of Malawi, the Southern region of Zambia and the Eastern region of Zimbabwe. Details of flood extent and inundated cropland at regional level are provided below.

3.1.1. Flood extent

Results showed that the most impacted country in terms of flood extent after Tropical Storm Ana in Southern Africa is Mozambique (i.e., 372 560 ha). Geographical representation for flood extent in square kilometers, South Africa can be seen in Figure 2. Further details from the analysis are provided in Tables 2 (national level) and Table 3 (sub-national level). Estimates from analysis conducted by Ministry of Agriculture, Government of Zambia have been added in Table 2 and Table 3 in the bracket.

Figure 1. Flooded land area in Southern African countries after Tropical Storm Ana (24 January 2022)

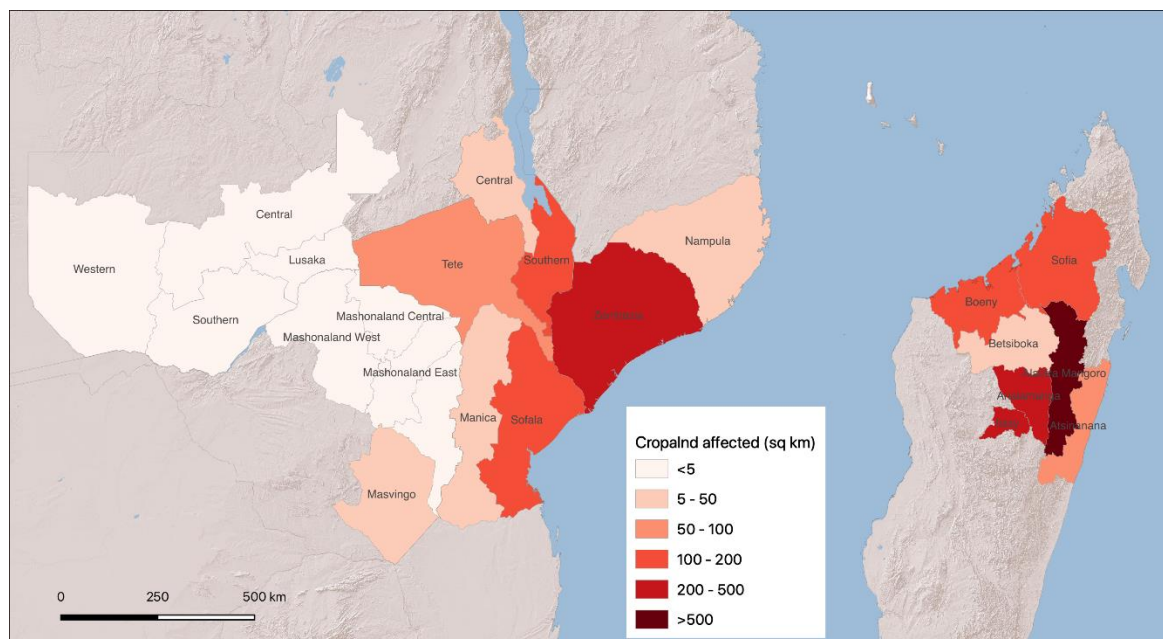


Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

3.1.2. Inundated cropland

Results reveals that the most impacted country in terms of inundated cropland is Madagascar (i.e., 168 672 ha). Geographical representation of inundated cropland area in square kilometers, South Africa can be seen in Figure 2. Further details from the analysis are provided in Tables 2 (national level) and Table 3 (sub-national level). Estimates from analysis conducted by Ministry of Agriculture, Government of Zambia have been added in Table 2 and Table 3 in the bracket.

Figure 2. Inundated cropland in five Southern African countries after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Table 2. Total flooded land area and inundated cropland (in ha) of identified area in Southern African countries after tropical storm Ana (24 January 2022)

Country	Flooded area	Total cropland	Inundated cropland
Malawi	91 651	2 779 948	17 150
Zimbabwe	14 337	2 952 857	1 462
Zambia	216 309	1 897 656 (5 418 000)	520 (17 381)
Madagascar	347 526	1 065 250	168 672
Mozambique	372 560	3 175 245	42 406
Total	1 042 383	11 70 956	230 0

Figure 3. Flooded land area and inundated cropland in Southern African countries after Tropical Storm Ana (24 January 2022)

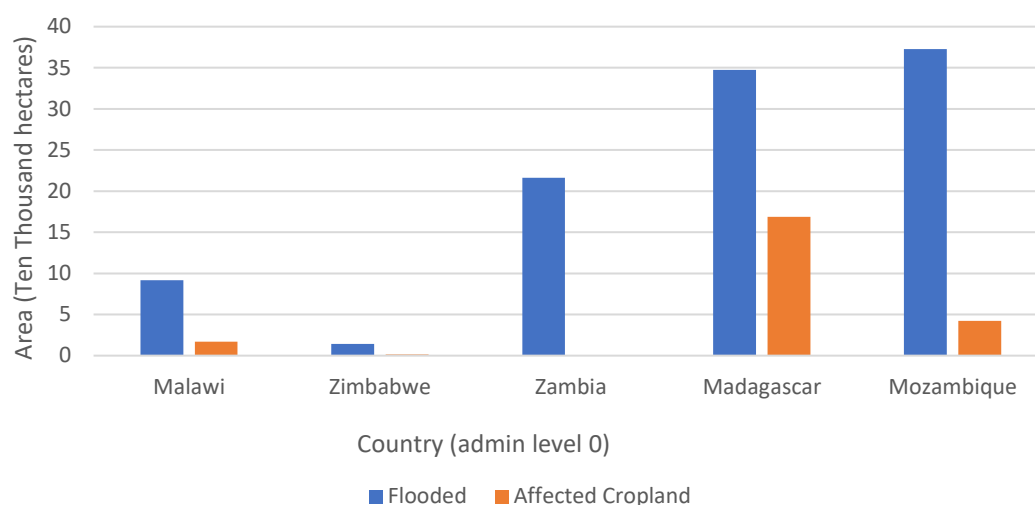


Table 3. Total flooded land area and inundated cropland (ha) at sub-national level in Southern African countries after Tropical Storm Ana (24 January 2022)

Country	Admin level 1	Flooded Area	Total Cropland	Inundated Cropland
Malawi	Central	7 397	1 672 629	956
	Southern	84 254	1 107 318	16 194
Zimbabwe	Harare	0	19 999	0
	Manicaland	918	621 420	409
	Mashonaland Central	635	449 281	104
	Mashonaland East	966	434 159	89
	Mashonaland West	3 403	646 972	201
	Masvingo	8 415	781 026	659
Zambia	Southern	35 032	801 260 (2 644 000)	368 (16 603)
	Western	152 257	32 547 (680 000)	82 (157)
	Central	25 127	940 962 (1 731 000)	60 (105)
	Lusaka	3 893	122 887 (363,000)	10 (516)
Madagascar	Alaotra Mangoro	101 356	232 894	70 428
	Analamanga	58 761	231 269	32 356
	Atsinanana	28 059	16 835	5 829
	Betsiboka	17 885	41 488	3 034
	Boeny	44 304	99 567	14 270
	Itasy	30 516	290 502	24 861

Country	Admin level 1	Flooded Area	Total Cropland	Inundated Cropland
	Sofia	66 646	152 696	17 893
	Manica	6 267	381 664	741
	Sofala	74 810	256 744	10 629
Mozambique	Tete	74 539	874 063	8 292
	Zambezia	155 542	1 154 631	22 065
	Nampula	61 403	508 143	679

3.2. Geospatial impact assessment in Madagascar

3.2.1. Flood extent

Results reveal that a total of **347 524 ha** has been inundated. In the following are the key findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 4. More details are provided in Annex I at sub-national level.

- **Region:** Alaotra Mangoro (101 356 ha), Sofia (66 646 ha), Analamanga (58 761 ha), Boeny (44 304 ha), Itasy (30 516 ha), Atsinanana (28 059 ha) and Betsiboka (17 885 ha) (see Figure 6).
- **District (top 3):** Amparafaravola (56 527 ha), Ambatondrazaka (25 782 ha) and Anjozorobe (17 321 ha).
- **Commune (top 3):** Ambatomainty (11 041 ha), Amparafaravola (7 694 ha), and Morarano Chrome (6 288 ha).

3.2.2. Inundated cropland

A total of **168 670 ha** was identified as inundated cropland area. In the following are the main findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 4. More details are provided in Annex I at sub-national level.

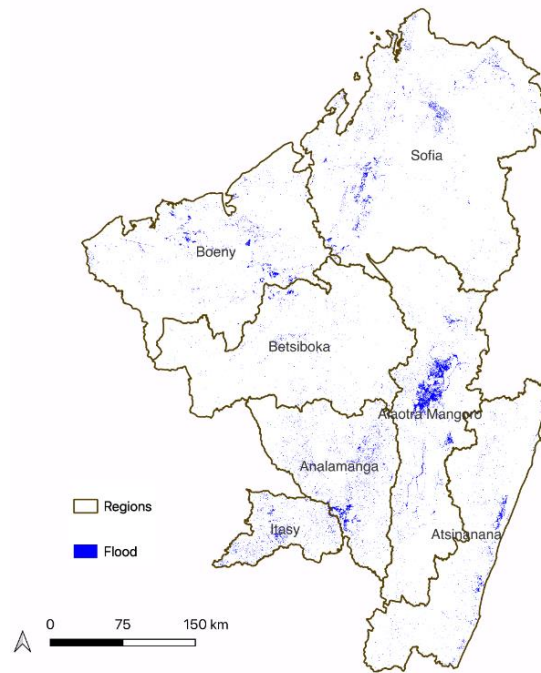
- **Region:** Alaotra Mangoro (70 428 ha; 30 percent), Analamanga (32 356 ha; 14 percent), Itasy (24 861 ha; 9 percent), Sofia (17 893; 12 percent), Boeny (14 270; 14 percent), Atsinanana (5 829 ha; 35 percent) and Betsiboka (3 034 ha; 7 percent) (see Figure 7).
- **District (top 3):** Amparafaravola (40 000 ha; 42 percent), Ambatondrazaka (20 506 ha; 27 percent) and Miarinarivo (8 768 ha; 10 percent).
- **Commune (top 3):** Analavory (1 033 ha; 6 percent), Ankisabe (990 ha; 8 percent), and Ambatomainty (7 031 ha; 54 percent).

3.2.3. Population exposed to floods

Results indicate that a total **1 132 130** persons have been exposed to flooding in Madagascar. In the following are the main findings from the assessment at different administrative levels in hectares. More details are provided in Annex I at sub-national level.

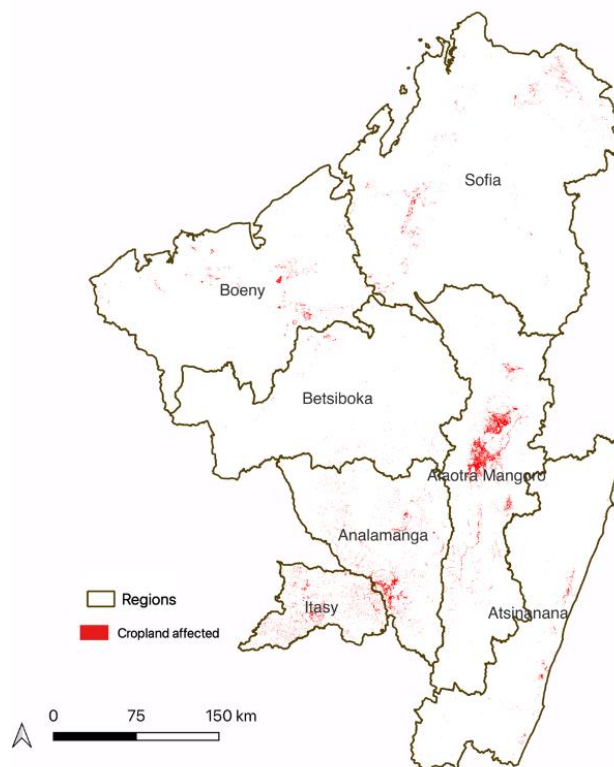
- **Region:** Analamanga (877 381; 18 percent), Alaotra Mangoro (79 743; 7 percent), Boeny (59 983; 5 percent), Itasy (46 216; 6 percent), Sofia (43 460; 3 percent), Atsinanana (22 041; 2 percent) and Betsiboka (3 307; 1 percent) (see Figure 9).
- **District (top 3):** Antananarivo Avaradrano (336 193; 24 percent), Antananarivo Atsimondrano (154 476; 24 percent) and Ambohidratrimo (154,240; 16 percent).
- **Commune (top 3):** Ankadikely Ilafy (119 308; 28 percent, 6e Arrondissement (117 256; 42 percent) and Sabotsy Namehana (87 563; 30 percent).

Figure 4. Flood extent in the seven regions of Madagascar (admin level 1) after Tropical Storm Ana (22 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 5. Extent of cropland affected by flood inundation in seven regions of Madagascar after Tropical Storm Ana (22 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 6. Flooded area and inundated cropland at district level in seven regions (admin level 2) of Madagascar after Tropical Storm Ana (22 January 2022)

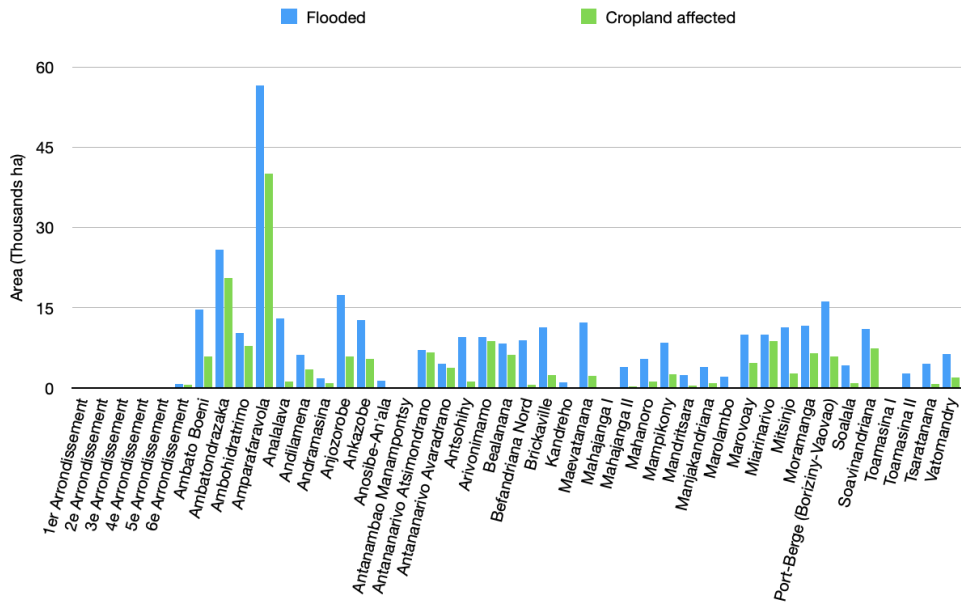
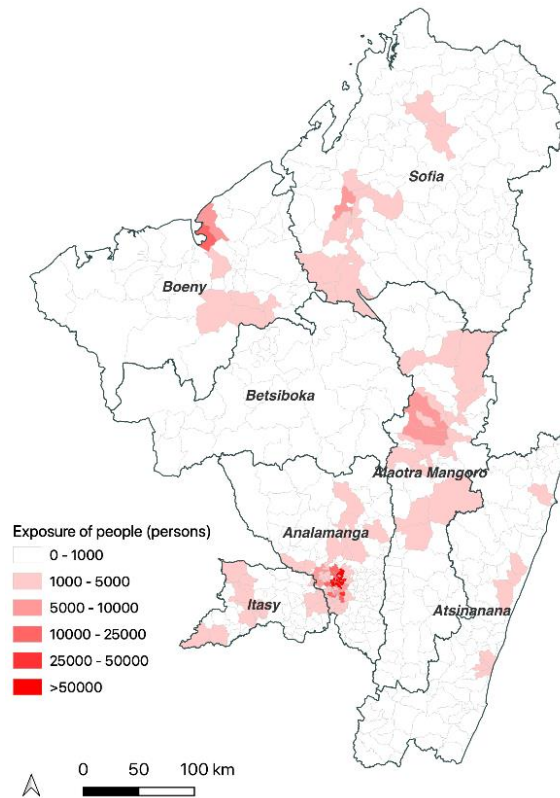


Figure 7. Number of affected population by district in seven regions of Madagascar after Tropical Storm Ana (22 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

3.3. Geospatial impact assessment in Malawi

3.3.1. Flood extent

Results shows that a total of **91 651 ha** has been inundated. In the following are the key findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 8. More details are provided in Annex II at sub-national level.

- **Region:** Central (7 397 ha) and Southern (84 254 ha) (see Figure 9).
- **District (top 3):** Chikwawa (33 802 ha), Nsanje (32 767 ha) and Machinga (7 780 ha).
- **Traditional authority area (top 3):** TA Makhwira (21 586 ha), TA Mlolo (12 993 ha) and TA Nyachikadza (5 929 ha).

3.3.2. Inundated cropland

Results indicated a total of **17 150 ha** inundated cropland area. In the following are the main findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 8. More details are provided in Annex II at sub-national level.

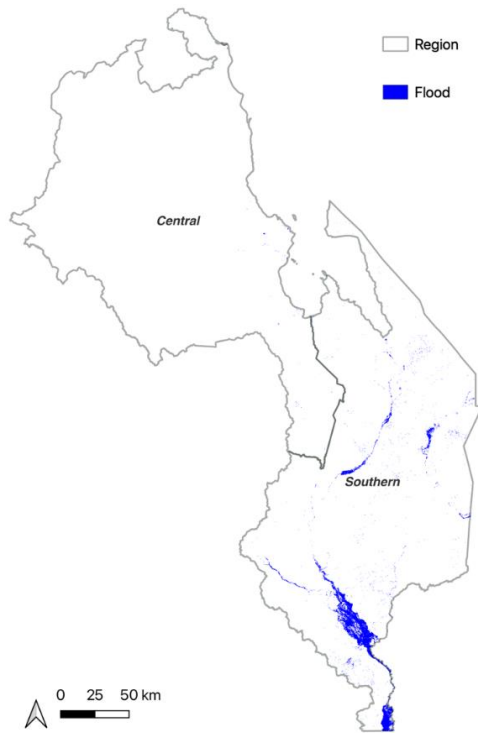
- **Region:** Central (956 ha) and Southern (16 194 ha) (see Figure 10).
- **District (top 3):** Nsanje (7 457 ha), Chikwawa (6 963 ha) and Zomba (407 ha).
- **Traditional authority area (top 3):** TA Makhwira (3 312 ha), TA Mlolo (2 045 ha) and TA Nyachikadza (1 568 ha).

3.3.3. Population exposed to floods

Results show that a total of **1 132 130 persons** have been exposed to flooding in Malawi. In the following are the main findings from the assessment at different administrative levels. More details are provided in Annex II at sub-national level.

- **Region:** Central (94 052) and Southern (128 250).
- **District (top 3):** Lilongwe City (78 712), Chikwawa (42 463), and Nsanje (42 132).
- **Traditional authority area (top 3):** Area 57 (24 624), TA Mlolo (13 743) and TA Chapananga (11 886) (see Figure 11).

Figure 8. Extent of flooding in two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 9. Extent of cropland affected by inundation in two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 10. Flooded land area and inundated cropland at district level in two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)

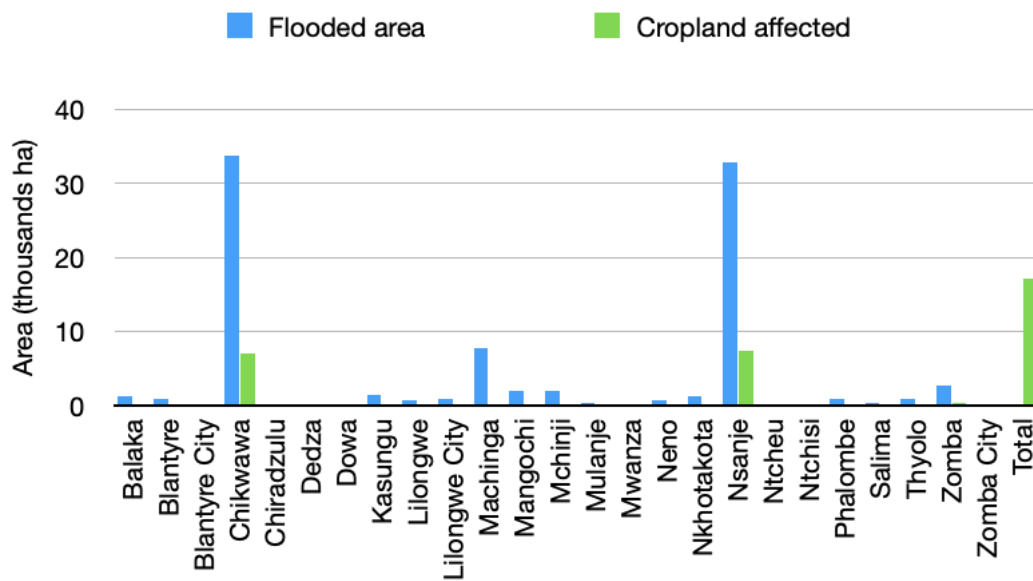
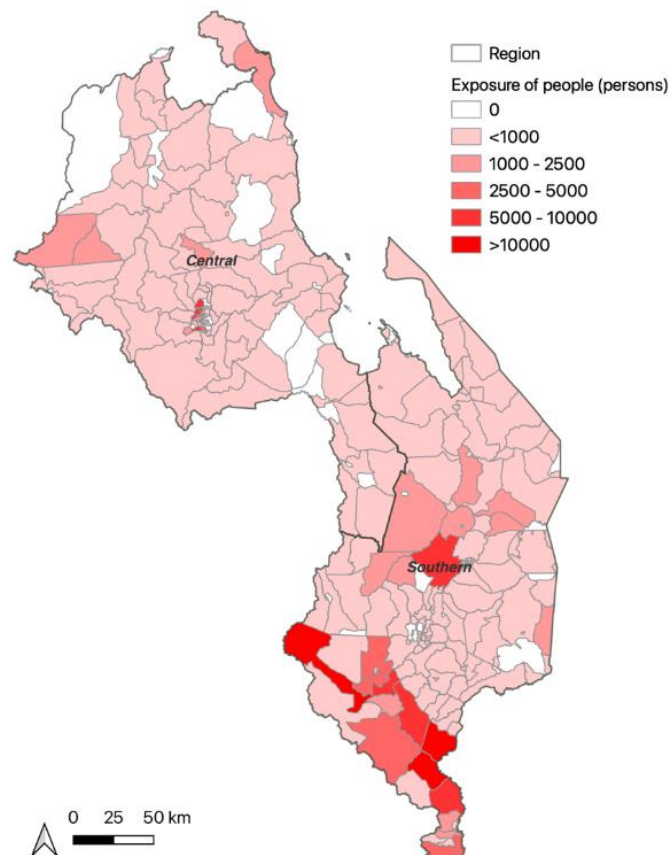


Figure 11. Number of affected population by traditional authority area (admin level 3) in two regions of Malawi after Tropical Storm Ana (22 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

3.4. Geospatial impact assessment in Mozambique

3.4.1. Flood extent

Results shows that a total of **372 560 ha** have been inundated. In the following are the key findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 12. More details are provided in Annex III at sub-national level.

- **Province:** Manica (6 267 ha), Sofala (74 809 ha), Tete (74 539 ha), Zambezia (155 542 ha) and Nampula (61 403 ha) (see Figure 13).
- **District (top 3):** Mutarara (45 714 ha), Maganja Da Costa (36 314 ha) and Morrumbala (32 777 ha).
- **Posto (top 3):** Inhangoma (24 381 ha), Maganja (23 441 ha) and Chire (21 618 ha).

3.4.2. Inundated cropland

Results indicate a total of **42 406 ha** as inundated cropland area. In the following are the main findings from the assessment at different administrative levels. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 12. More details are provided in Annex III at sub-national level.

- **Province:** Manica (741 ha), Sofala (10 629 ha), Tete (8 292 ha), Zambezia (22 065 ha) and Nampula (679 ha) (see Figure 14).
- **District (top 3):** Mutarara (6 233 ha; 37 percent), Morrumbala (5 374 ha; 29 percent) and Gorongosa (3 871 ha; 20 percent).
- **Posto (top 3):** Inhangoma (4 429 ha; 16 percent), Chire (3 888 ha; 15 percent) and Gorongosa (3 816 ha; 19 percent).

3.4.3. Population exposed to floods

Results reveal a total of **401 565** persons to be exposed to floods in Mozambique. In the following are the main findings from the assessment at different administrative levels. More details are provided in Annex III at sub-national level.

- **Province:** Manica (2 174), Sofala (45 496), Tete (57 902), Zambezia (190 460) and Nampula (105 533).
- **District (top 3):** Cidade De Quelimane (56 999; 21 percent), Mutarara (41 729; 56 percent) and Angoche (36494; 10 percent).
- **Posto (top 3):** Cidade De Quelimane (56 999; 21 percent), Inhangoma (31 232; 31 percent) and Aube (21 814; 15 percent) (see Figure 15).

Figure 12. Flooded area and inundated cropland in five provinces of Mozambique (admin level 1) after Tropical Storm Ana (24 January 2022)

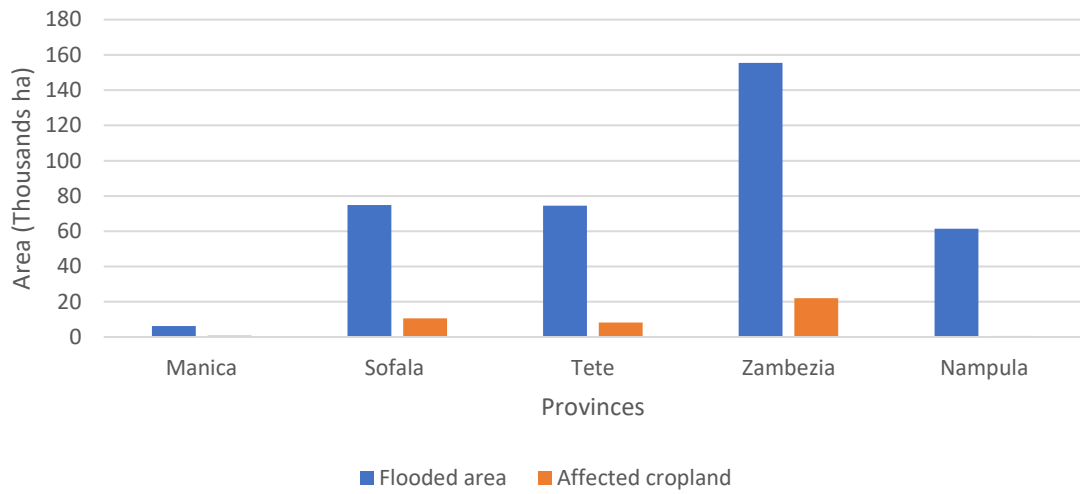
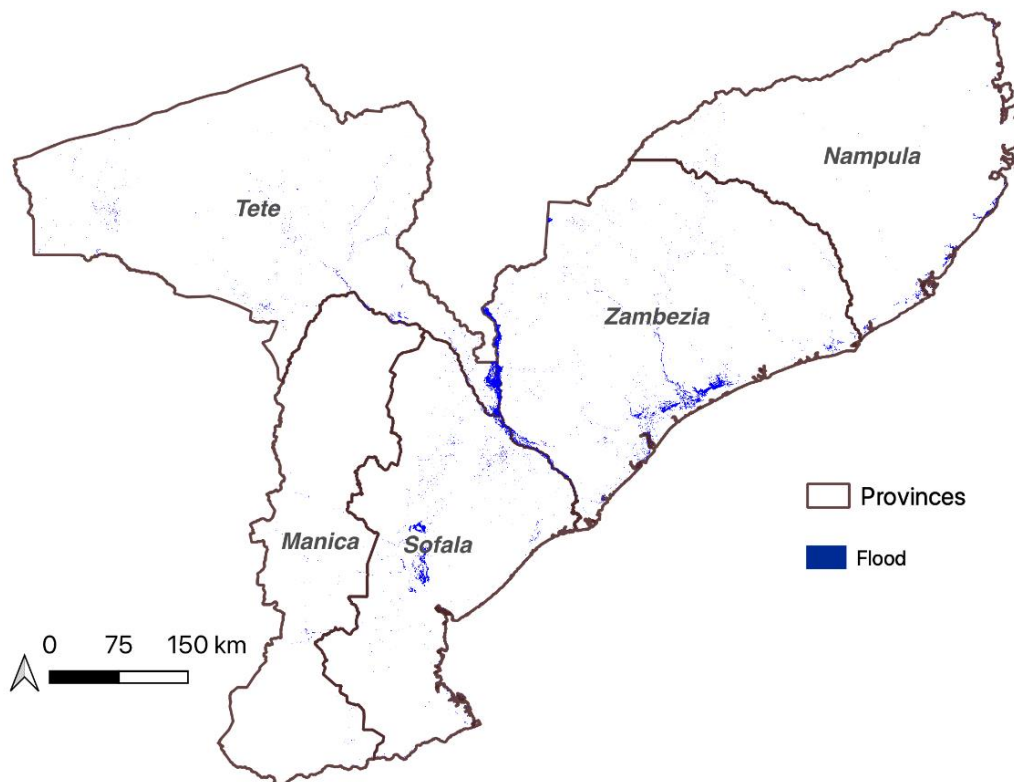
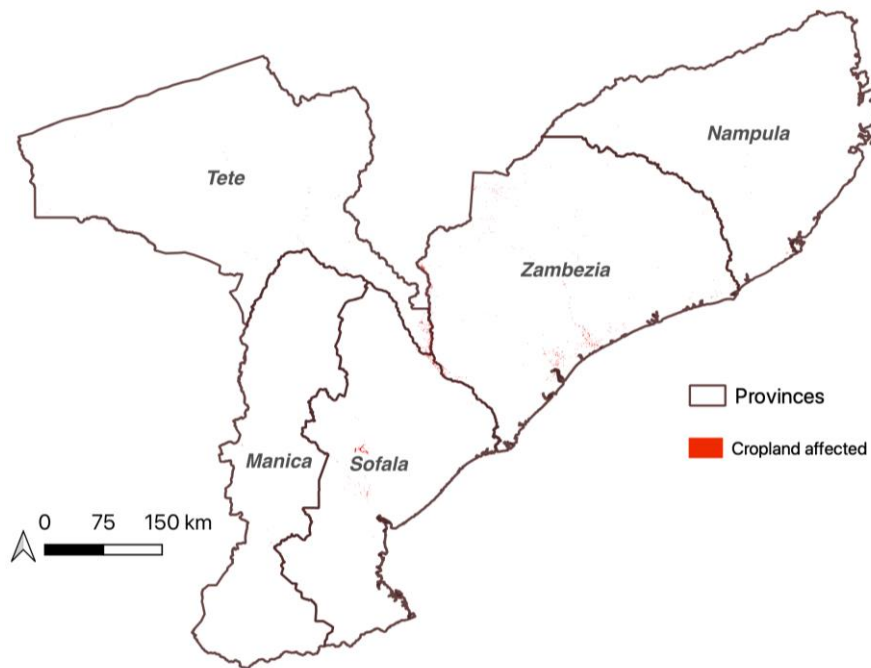


Figure 13. Extent of flooding in the five provinces of Mozambique due to Tropical Storm Ana (24 January 2022)



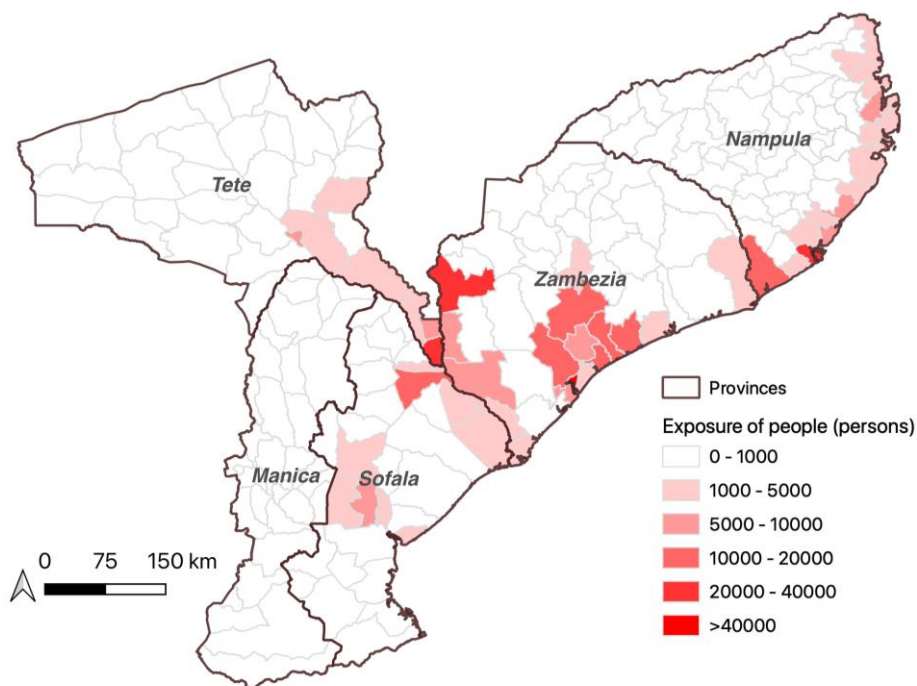
Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 14. Extent of cropland affected by flood inundation in five provinces of Mozambique after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 15 Exposure of people to flood in persons in five provinces of Mozambique (admin level 3) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

3.5. Geospatial impact assessment in Zambia

3.5.1. Flood extent

A total of **216 310 ha** has been determined to be inundated. In the following are the main findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 16. More details are provided in Annex IV at sub-national level.

- **Province:** Western (152 257 ha), Southern (35 032 ha), Central (25 127 ha) and Lusaka (3 893 ha) (see Figure 17).
- **District (top 3):** Kalabo (50 986 ha), Kazungula (26 396 ha) and Senanga (23 955 ha).

3.5.2. Inundated cropland

Results identify a total of **518 ha** as inundated cropland area. In the following are the main findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 16. More details are provided in Annex IV at sub-national level.

- **Province:** southern (368 ha), western (82 ha), central (60 ha) and Lusaka (10 ha) (see Figure 18).
- **District (top 3):** Kazungula (268 ha), Mwandia (59 ha) and Itezhi-tezhi (58 ha).

Figure 16. Flooded area and inundated cropland at district level in four provinces of Zambia (admin level 2) after Tropical Storm Ana (24 January 2022)

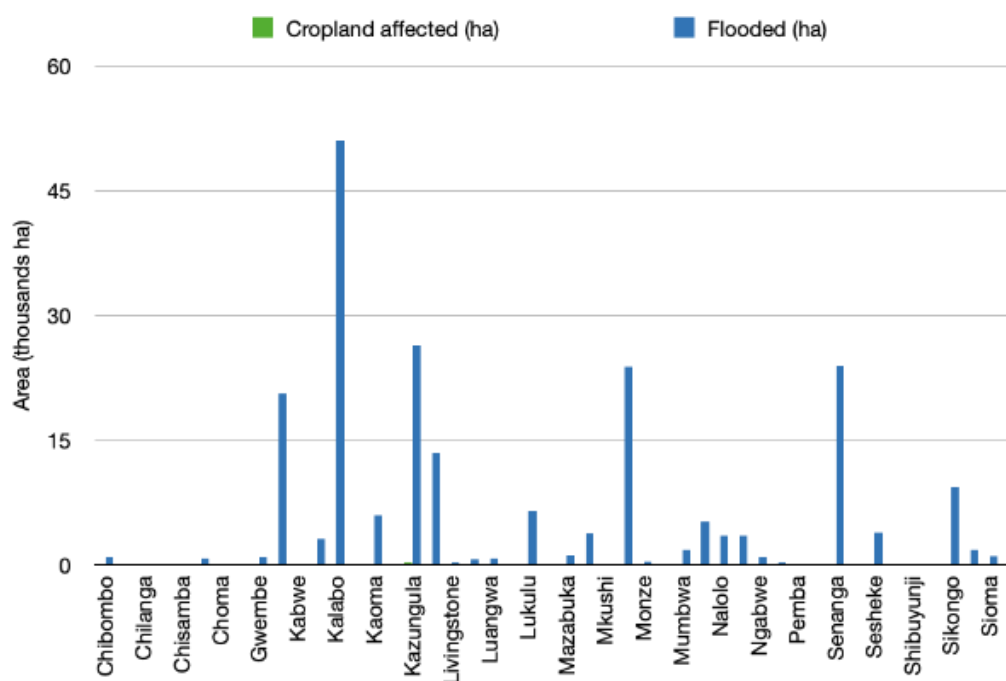
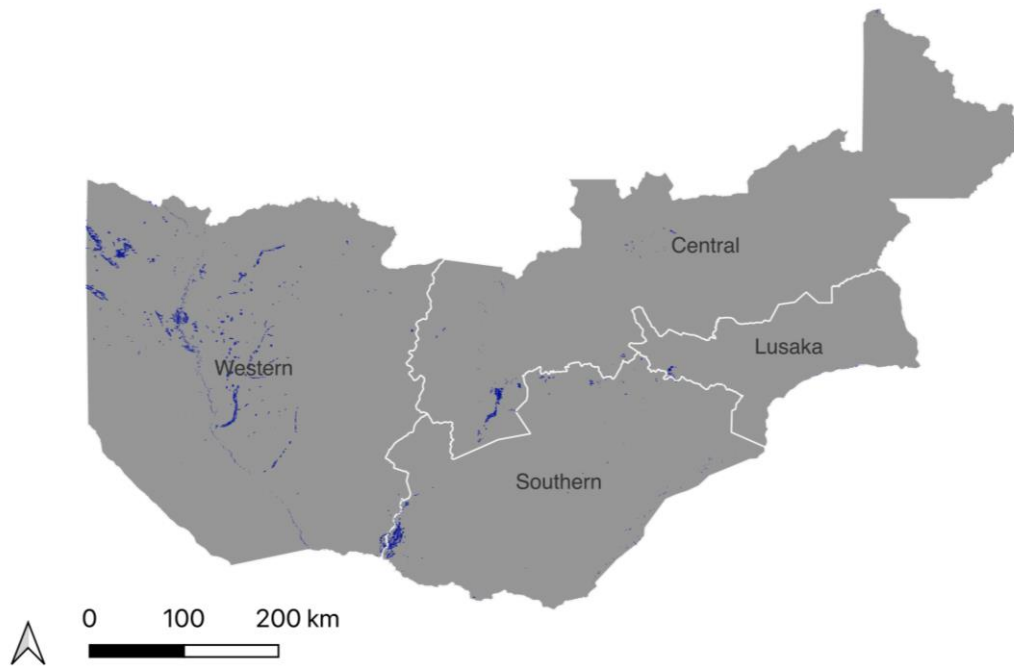
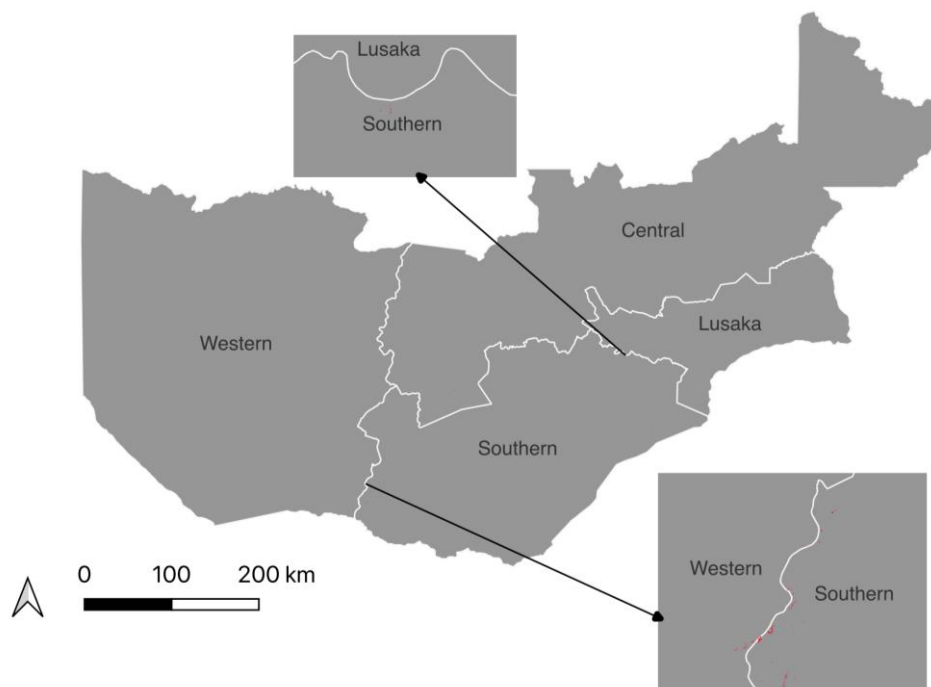


Figure 17. Extent of flooding in the four provinces of Zambia after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 18. Extent of cropland affected by flood inundation in four provinces of Zambia after Tropical Storm Ana (24 January 2022)



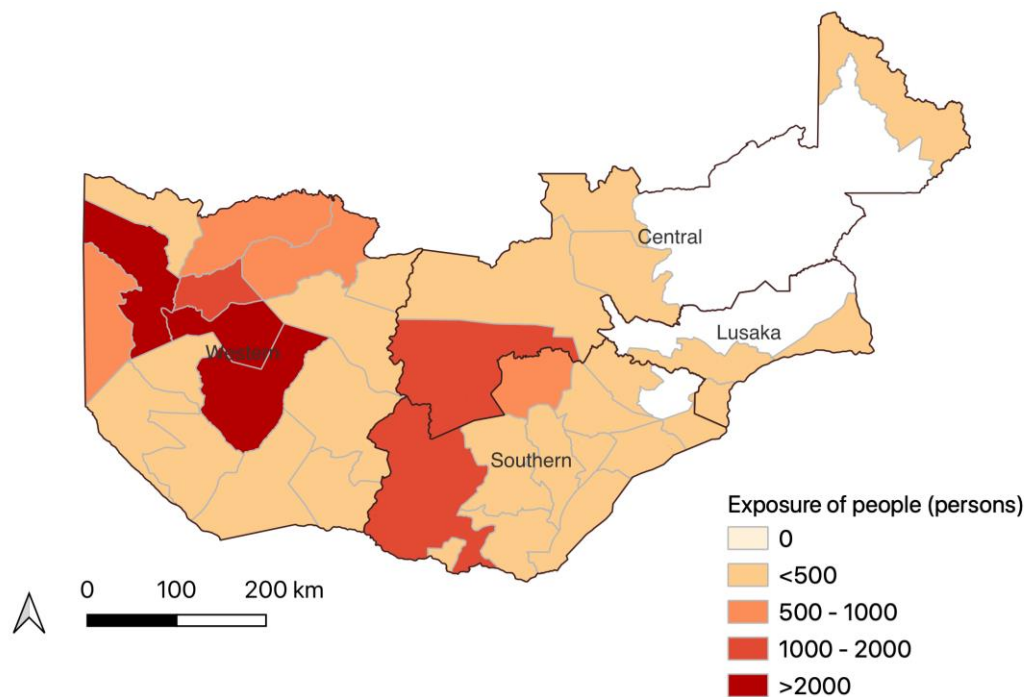
Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

3.5.3. Population exposed to floods

Results show that a total of **21 055** person to be exposed to floods in Zambia. In the following are the main findings from the assessment at different administrative levels. More details are provided in Annex IV at sub-national level.

- **Province:** western (15 640), southern (2 825), central (2 287) and Lusaka (303).
- **District (top 3):** Mongu (4 336), Kalabo (3 970) and Senanga (2 103) (Figure 19).

Figure 19. Population affected by flooding at district level in four provinces of Zambia (number of persons exposed or living close to the flooded areas) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

3.6. Geospatial impact assessment in Zimbabwe

3.6.1. Flood extent

Results reveal a total of **14 337 ha** to have been inundated. In the following are the main findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 20. More details are provided in Annex V at sub-national level.

- **Province:** Masvingo (8 415 ha), Mashonaland West (3 403 ha), Mashonaland East (966 ha), Manicaland (919 ha), and Mashonaland Central (635 ha) (see Figure 23).
- **District (top 3):** Chivi (3 215 ha), Masvingo (2 109 ha) and Chiredzi (2 083 ha).
- **Ward (top 3):** Area-24 of the district Chivi (2 692 ha), Area-22 of the district Masvingo (1 957 ha) and Area-7 of the district Hurungwe (802 ha).

3.6.2. Inundated cropland

Results identify a total of **1 462 ha** as inundated cropland area. In the following are the main findings from the assessment at different administrative levels in hectares. Graphical representation at district level for flood extent and inundated cropland is also provided in Figure 20. More details are provided in Annex V at sub-national level.

- **Province:** Masvingo (659 ha), Manicaland (408 ha), Mashonaland West (201 ha), Mashonaland Central (104 ha), and Mashonaland East (89 ha) (see Figure 24).
- **District (top 3):** Chiredzi (592 ha), Chipinge (395 ha) and Zvimba (99 ha)
- **Ward (top 3):** Area-25 of Chiredzi district (439 ha), Area-28 of district Chipinge (338 ha) and Area-7 of the district Chipinge (50 ha).

Figure 20. Flooded area and inundated cropland at district level in six provinces of Zimbabwe (admin level 2) after Tropical Storm Ana (24 January 2022)

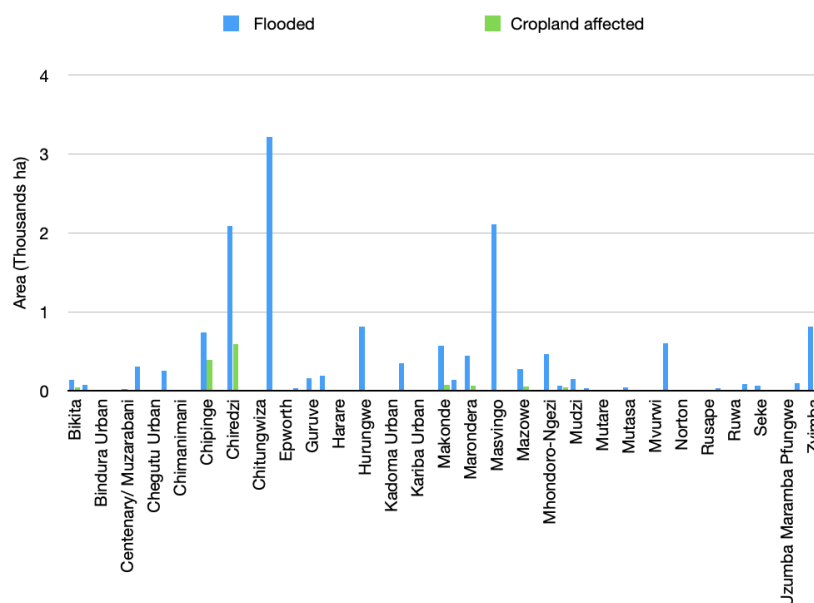
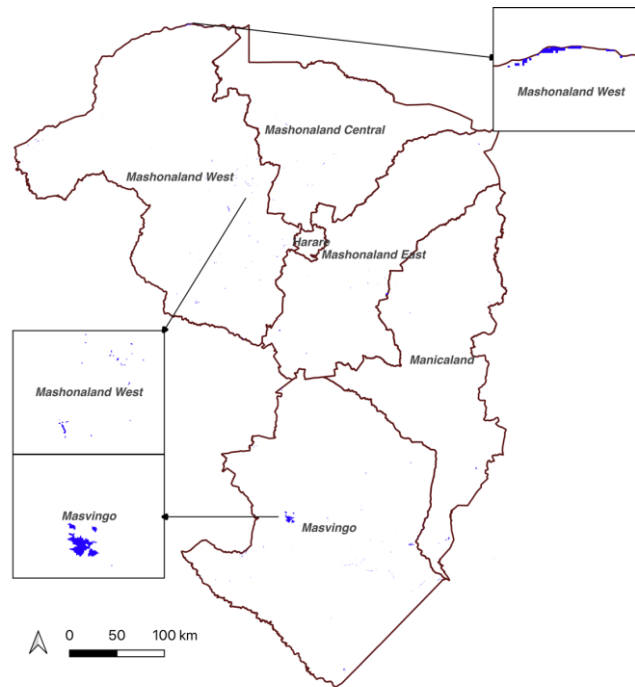
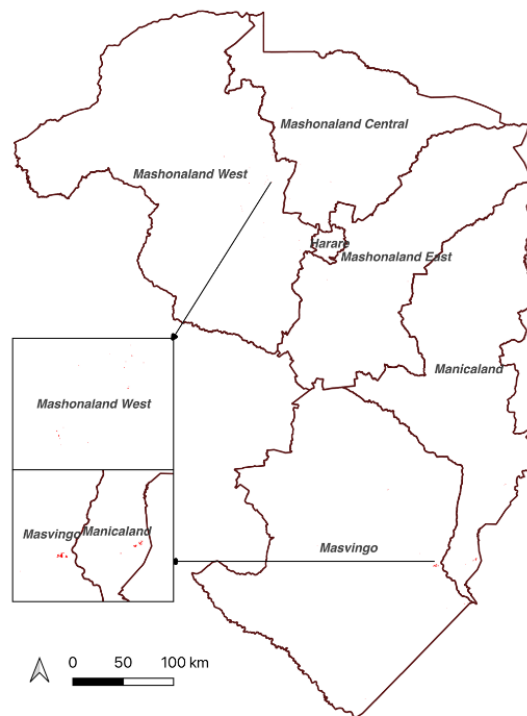


Figure 21. Extent of flooding in the six provinces of Zimbabwe after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 22 Extent of cropland affected by flood inundation in six provinces of Zimbabwe after Tropical Storm Ana (24 January 2022)



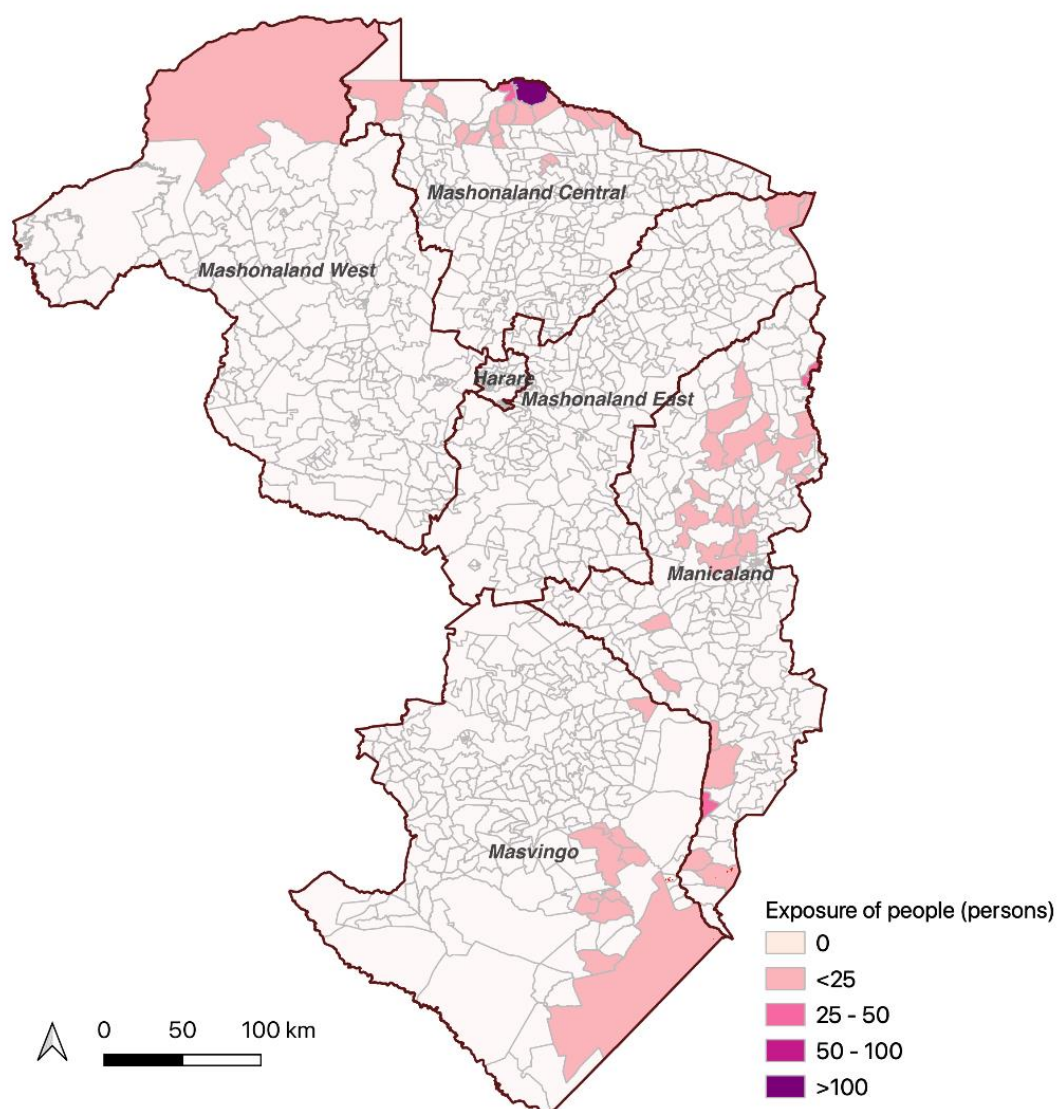
Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

3.6.3. Population exposed to floods

Results reveal a total of **477** persons to be exposed to floods in Zimbabwe. In the following are the main findings from the assessment at different administrative levels. More details are provided in Annex V at sub-national level.

- **Province:** Mashonaland Central (271), Manicaland (182), Masvingo (11), Mashonaland East (10) and Mashonaland West (3).
- **District (top 3):** Centenary/ Muzarabani (198), Nyanga (104) and Mbire (46).
- **Ward (top 3):** Area-24 of the district Chivi (2 692), Area-22 of the district Masvingo (1 957) and Area-7 of the district Hurungwe (802) (see Figure 23).

Figure 23. Population affected by flooding at ward level in six provinces of Zimbabwe (number of persons exposed or living close to the flooded areas) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

4. Conclusion

The use of geospatial technologies through field data integration, remote sensing, machine learning and cloud computing holds great potential to provide rapid information for emergency responses to shocks and crises. With the goal of providing accurate and actionable data for immediate response, the following recommendations have the potential to improve the production of timely and more accurate data in the future.

- National data (geospatial and tabular) should be regularly updated, consistent (if possible) and available for administrative boundaries, land cover, crop type, crop calendars, yield, productivity, national statistics by sector, including agriculture, fisheries, livestock and other relevant information (e.g., integrated food security phase classification). For example, this assessment did not take into account the livestock and fisheries sectors because the data were not available;
- Where and when possible, the rapid geospatial analysis could be complemented by a field data collection campaign in priority affected areas with additional information to improve and validate the results. This would require equipped and trained teams to be operational to undertake field visits and assessment in time;
- Technical capacities should be strengthened on the use of geospatial information, from the preparation of data to the results, improving their use by national and local actors and the adaptability of contexts. Stakeholders would benefit from knowing about data preparation, challenges and opportunities and how it can complement other sources of information, as it may be generated differently. For example, in Zambia, different results have been achieved through different approaches by FAO and the Ministry of Agriculture;
- The use of geospatial has the potential, through innovative information technologies, to better involve and inform various stakeholder groups and organisations involved in disaster preparedness and response programmes, as well as to strengthen collaboration and partnerships.

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Annex I – Statistical data of geospatial impact assessment in Madagascar

Table 4. Total flooded land area, inundated cropland and population exposed to flood in seven regions of Madagascar at administrative levels 1,2 and 3 after Tropical Storm Ana (22 January 2022)

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Analamanga	1er Arrondissement	1er Arrondissement	39.80	203.20	30.40	14.96	94 080	3 984	4.23
Analamanga	2e Arrondissement	2e Arrondissement	79.10	207.10	59.50	28.73	123 633	5 621	4.55
Analamanga	3e Arrondissement	3e Arrondissement	51.10	108.90	46.10	42.33	75 869	5 791	7.63
Analamanga	4e Arrondissement	4e Arrondissement	145.20	301.60	119.80	39.72	105 630	7 602	7.20
Analamanga	5e Arrondissement	5e Arrondissement	273.70	488.60	215.40	44.09	435 751	70 312	16.14
Analamanga	6e Arrondissement	6e Arrondissement	676.60	1 115.30	637.80	57.19	281 456	117 256	41.66
Analamanga	Antananarivo Avaradrano	Alasora	599.50	1 248.30	566.50	45.38	74 745	33 918	45.38
Analamanga	Antananarivo Avaradrano	Ankadikely Ilafy	600	1 580.80	568.30	35.95	432 193	119 308	27.61
Analamanga	Antananarivo Avaradrano	Ambohimambola	181.80	678.80	130.70	19.25	11 858	1 548	13.05
Analamanga	Antananarivo Avaradrano	Sabotsy Namehana	645.40	1 303.10	587.30	45.07	296 780	87 563	29.50
Analamanga	Antananarivo Avaradrano	Ambohimangakely	408.70	1 357.50	330.70	24.36	67 164	9 690	14.43
Analamanga	Antananarivo Avaradrano	Manandriana	47.50	463.40	30.70	6.62	29 039	1 171	4.03
Analamanga	Antananarivo Avaradrano	Ambohimalaza Miray	49.20	914.30	18.60	2.03	12 758	229	1.79
Analamanga	Antananarivo Avaradrano	Fiaferana	161.80	806.50	67.80	8.41	34 775	1 973	5.67
Analamanga	Antananarivo Avaradrano	Ambohimanga Rova	698.90	2 264.20	656.20	28.98	258 172	72 516	28.09
Analamanga	Antananarivo Avaradrano	Viliahazo	75.50	497.50	27.40	5.51	680	29	4.22
Analamanga	Antananarivo Avaradrano	Talata Volonondry	333.80	2 087.10	171	8.19	105 550	4 469	4.23
Analamanga	Antananarivo Avaradrano	Anjeva Gara	62.80	668.70	43.60	6.52	6 211	162	2.60
Analamanga	Antananarivo Avaradrano	Masindray	480	1 887	422.60	22.40	18 411	3 114	16.91

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Analamanga	Antananarivo Avaradrano	Ankadinandriana	136.20	2 648.50	120.10	4.53	28 999	506	1.74
Analamanga	Ambohidratrimo	Ambohidratrimo	177.90	662.70	169.20	25.53	20 943	2 475	11.82
Analamanga	Ambohidratrimo	Anosiala	212.90	2 380.20	208.40	8.76	56 557	2 223	3.93
Analamanga	Ambohidratrimo	Talatamaty	194.30	378.50	166.90	44.10	22 584	3 827	16.95
Analamanga	Ambohidratrimo	Antehiroka	659.80	941.10	598.50	63.60	136 749	75 042	54.88
Analamanga	Ambohidratrimo	Iarinarivo	577.60	1 101.30	539.80	49.01	10 536	4 896	46.47
Analamanga	Ambohidratrimo	Ivato Firaisana	10.40	89.40	8.30	9.28	12 007	477	3.97
Analamanga	Ambohidratrimo	Ivato Aeroport	21.10	136.70	16.10	11.78	15 163	413	2.73
Analamanga	Ambohidratrimo	Ambohitrimanjaka	1 130.90	1 756.40	1 027	58.47	26 219	11 178	42.63
Analamanga	Ambohidratrimo	Mahitsy	1 339.80	4 811.30	1 212.70	25.21	82 569	6 900	8.36
Analamanga	Ambohidratrimo	Merimandroso	441	2 219.30	366.60	16.52	93 220	10 018	10.75
Analamanga	Ambohidratrimo	Ambatolampy	219.20	789.30	141.50	17.93	98 904	20 834	21.06
Analamanga	Ambohidratrimo	Ampangabe	1 629.40	3 032.40	1 580	52.10	18 810	5 302	28.19
Analamanga	Ambohidratrimo	Ampanotokana	517.80	3 693.10	444.40	12.03	71 148	2 030	2.85
Analamanga	Ambohidratrimo	Mananjara	179	580.10	173	29.82	2 771	352	12.70
Analamanga	Ambohidratrimo	Manjakavaradrano	122.80	673	58.60	8.71	17 649	667	3.78
Analamanga	Ambohidratrimo	Antsahafilo	274.80	399.90	20.80	5.20	7 809	485	6.21
Analamanga	Ambohidratrimo	Ambohimanjaka	51.40	851.20	47.60	5.59	44 261	1 186	2.68
Analamanga	Ambohidratrimo	Fiadanana	366.10	1 024.10	350.70	34.24	3 491	487	13.95
Analamanga	Ambohidratrimo	Mahabo	72.30	1 553.80	68.70	4.42	26 017	312	1.20
Analamanga	Ambohidratrimo	Mahereza	286.90	628.20	250.50	39.88	1 523	411	26.95
Analamanga	Ambohidratrimo	Antanetibe	70.90	2 082.70	63.20	3.03	60 890	619	1.02
Analamanga	Ambohidratrimo	Ambohipihaonana	185.80	682.80	49.20	7.21	10 562	424	4.01
Analamanga	Ambohidratrimo	Ambato	902	2 523.30	113.20	4.49	78 107	2 112	2.70
Analamanga	Ambohidratrimo	Anjanadoria	60.90	1 811.10	45.10	2.49	55 913	210	0.38

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Analamanga	Ambohidratrimo	Avaratsena	583.40	948	75.30	7.94	18 196	1 360	7.47
Analamanga	Ankazobe	Ankazobe	1 441	4 807.80	482.40	10.03	17 996	697	3.87
Analamanga	Ankazobe	Talata Angavo	1 114.40	4 363.10	610	13.98	13 878	360	2.60
Analamanga	Ankazobe	Ambohitromby	1 066.90	2 527.50	266.20	10.53	9 456	575	6.08
Analamanga	Ankazobe	Antotohazo	921.10	2 367	272.30	11.50	5 416	280	5.18
Analamanga	Ankazobe	Marondry	1 156.50	3 081.20	503.20	16.33	6 699	342	5.11
Analamanga	Ankazobe	Fihaonana	513.60	4 953.20	497.20	10.04	19 203	386	2.01
Analamanga	Ankazobe	Mahavelona	386.50	3 901.90	306.30	7.85	20 085	434	2.16
Analamanga	Ankazobe	Fiadanana	1 220.10	6 502.30	349.90	5.38	31 602	304	0.96
Analamanga	Ankazobe	Tsaramasoandro	901.80	2 785.30	281.10	10.09	16 405	237	1.45
Analamanga	Ankazobe	Ambolotarakely	896.40	2 844.80	139.70	4.91	15 295	257	1.68
Analamanga	Ankazobe	Antakavana	622.30	2 990.10	136.80	4.58	9 001	102	1.14
Analamanga	Ankazobe	Kiangara	1 414.90	3 410.90	600.70	17.61	12 023	255	2.12
Analamanga	Ankazobe	Miantso	1 016.90	5 249.30	904.30	17.23	19 784	1 341	6.78
Analamanga	Manjakandriana	Manjakandriana	147.20	2 106.40	61.90	2.94	7 821	157	2.01
Analamanga	Manjakandriana	Ambatolaona	124.30	370.10	1.60	0.43	7 330	65	0.89
Analamanga	Manjakandriana	Sambaina	16.10	790.20	4.50	0.57	3 708	15	0.40
Analamanga	Manjakandriana	Ambohibary	36.40	603.80	3.20	0.53	2 405	17	0.71
Analamanga	Manjakandriana	Ambatomanga	39.70	780	22	2.82	1 555	27	1.74
Analamanga	Manjakandriana	Alarobia	73.40	1 689.10	52	3.08	7 349	92	1.25
Analamanga	Manjakandriana	Mantaso	197.90	1 311.80	69	5.26	6 599	129	1.96
Analamanga	Manjakandriana	Ranovao	60.90	730.70	4	0.55	4 040	25	0.61
Analamanga	Manjakandriana	Miadanandriana	118.90	1 330.70	14.90	1.12	11 880	154	1.30
Analamanga	Manjakandriana	Nandihizana	82.60	712	33.50	4.71	3 481	87	2.50
Analamanga	Manjakandriana	Anjepy	66.80	1 095.60	22.90	2.09	2 478	40	1.62

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Analamanga	Manjakandriana	Ambanitsena	45.60	778.70	24.50	3.15	2 059	33	1.59
Analamanga	Manjakandriana	Ambohitrandriamanitra	53.40	1 196	10.80	0.90	8 465	58	0.68
Analamanga	Manjakandriana	Ambatomena	119.90	1 106.70	72.40	6.54	1 410	60	4.23
Analamanga	Manjakandriana	Ambohibao Sud	60.80	530.10	19.10	3.60	699	25	3.55
Analamanga	Manjakandriana	Ambohitseheny	123	969.70	76.80	7.92	1 203	57	4.76
Analamanga	Manjakandriana	Antsahalalina	32.60	443.20	1.50	0.34	1 773	10	0.55
Analamanga	Andramasina	Sabotsy Ambohitromby	94	2 443.30	50.30	2.06	3 895	40	1.03
Analamanga	Andramasina	Andohariana	49.90	769.80	10	1.30	1 660	15	0.91
Analamanga	Andramasina	Mandrosoa	172.30	1 151	163.50	14.21	3 499	119	3.40
Analamanga	Antananarivo Atsimondrano	Ambatofahavalo	133	1 239.20	127	10.25	18 584	773	4.16
Analamanga	Manjakandriana	Ambohitrony	29.10	213.30	22.50	10.55	288	11	3.91
Analamanga	Manjakandriana	Merikanjaka	87.30	984.50	20.20	2.05	9 616	91	0.95
Analamanga	Manjakandriana	Anjoma Betoho	13	519.90	6.40	1.23	392	3	0.76
Analamanga	Manjakandriana	Ankazondandy	289.30	2 973.70	125.20	4.21	6 696	148	2.21
Analamanga	Manjakandriana	Soavinandriana	35.30	538.50	4	0.74	2 292	11	0.50
Analamanga	Manjakandriana	Ambohitromahitsy	397.80	2 223.50	124.20	5.59	8 771	370	4.21
Analamanga	Manjakandriana	Ampaneva	51.60	443	25.80	5.82	711	28	3.91
Analamanga	Manjakandriana	Sadabe	1 588.10	3 227.30	121.50	3.76	37 524	1 952	5.20
Analamanga	Anjozorobe	Anjozorobe	1 389.60	3 566.60	491.30	13.78	13 806	1 229	8.90
Analamanga	Anjozorobe	Mangamila	701.50	2 815.90	106.90	3.80	15 685	537	3.42
Analamanga	Anjozorobe	Ambongamarina	322.50	3 001.40	109.90	3.66	5 755	63	1.10
Analamanga	Anjozorobe	Tsarasaotra	127.40	593.70	102.60	17.28	1 188	104	8.72
Analamanga	Anjozorobe	Ambohimananarina Marovazaha	747.80	1 951.80	95.80	4.91	3 946	267	6.77
Analamanga	Anjozorobe	Betatao	855.40	3 393.60	66.10	1.95	9 333	255	2.73
Analamanga	Anjozorobe	Alakamisy	339.70	761.10	296.10	38.90	1 537	169	11.01

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Analamanga	Anjozorobe	Analaroa	1 483.40	1 996.80	109.10	5.46	4 435	359	8.09
Analamanga	Anjozorobe	Antanetibe	1 024.50	3 740.30	804.90	21.52	11 827	1 324	11.19
Analamanga	Anjozorobe	Belanitra	259.80	861.40	239.60	27.82	865	170	19.69
Analamanga	Anjozorobe	Ambatomanoina	1 549	4 312.30	842.90	19.55	10 922	1 258	11.52
Analamanga	Anjozorobe	Amparatanjona	1 192	3 275.10	211.80	6.47	12 285	447	3.64
Analamanga	Anjozorobe	Amboasary Nord	917.40	2 633.90	173.80	6.60	7 653	410	5.35
Analamanga	Anjozorobe	Androvakely	574.90	3 287.80	437.70	13.31	12 762	614	4.81
Analamanga	Anjozorobe	Ambohibary Vohilena	2 969.30	8 207.20	1 295.90	15.79	22 008	2 161	9.82
Analamanga	Anjozorobe	Ambohimirary	1 139.50	1 871.70	161.10	8.61	1 764	224	12.70
Analamanga	Anjozorobe	Marotsipoy	1 285.80	3 301.40	189.70	5.75	20 154	383	1.90
Analamanga	Anjozorobe	Beronono	441.80	5 045.40	199.20	3.95	15 103	216	1.43
Analamanga	Andramasina	Andramasina	357.50	2 685.20	263.10	9.80	13 776	598	4.34
Analamanga	Andramasina	Alatsinainy Bakaro	229.50	3 237.90	29.40	0.91	31 129	394	1.27
Analamanga	Andramasina	Antotohazo	36.60	537.20	1.50	0.28	5 449	71	1.31
Analamanga	Andramasina	Ambohimiadana	236.10	3 357.90	78.40	2.33	18 451	222	1.20
Analamanga	Andramasina	Tankafatra	196.30	1 707.20	26	1.52	26 215	161	0.62
Analamanga	Andramasina	Alarobia Vatosola	117.70	2 088.50	78.70	3.77	18 593	363	1.95
Analamanga	Andramasina	Fitsinjavana Bakaro	48.90	2 429.10	1.70	0.07	20 233	72	0.36
Analamanga	Andramasina	Sabotsy Manjakavahoaka	113.30	1 425.10	91.20	6.40	12 439	307	2.47
Analamanga	Andramasina	Anosibe Trimoloharano	105.60	1 232.40	16.70	1.36	8 102	118	1.46
Analamanga	Antananarivo Atsimondrano	Ampitatafika	665	1 275.80	636.70	49.91	40 650	15 196	37.38
Analamanga	Antananarivo Atsimondrano	Anosizato Andrefana	46.90	59.90	27.50	45.91	3 690	975	26.44
Analamanga	Antananarivo Atsimondrano	Andranonahoatra	122.60	158	105.80	66.96	15 262	3 494	22.89
Analamanga	Antananarivo Atsimondrano	Ambohidrapeto	76.80	211.60	76.20	36.01	17 337	2 998	17.29

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Analamanga	Antananarivo Atsimondrano	Bemasoandro	133.10	180.50	119.70	66.32	22 850	9 292	40.66
Analamanga	Antananarivo Atsimondrano	Fiombonana	326.60	371.90	313.40	84.27	37 442	26 832	71.66
Analamanga	Antananarivo Atsimondrano	Itaosy	204.90	372.90	199.40	53.47	14 477	3 251	22.46
Analamanga	Antananarivo Atsimondrano	Ambavahaditokana	122	371.50	114.40	30.79	18 929	1 549	8.18
Analamanga	Antananarivo Atsimondrano	Tanjombato	145.50	187.40	119.70	63.87	38 463	10 733	27.91
Analamanga	Antananarivo Atsimondrano	Andoharanofotsy	35	253.90	28.10	11.07	34 068	1 764	5.18
Analamanga	Antananarivo Atsimondrano	Ankaraobato	35.20	83.10	32.50	39.11	37 995	5 953	15.67
Analamanga	Antananarivo Atsimondrano	Soalandy	236	770.40	224	29.08	21 362	2 996	14.03
Analamanga	Antananarivo Atsimondrano	Antanetikely	586.20	2 021.50	562.60	27.83	23 076	4 572	19.82
Analamanga	Antananarivo Atsimondrano	Alatsinainy Ambazaha	257	626.80	253.80	40.49	5 506	1 623	29.48
Analamanga	Antananarivo Atsimondrano	Ampanefy	552.90	803.80	498.30	61.99	35 334	17 240	48.79
Analamanga	Antananarivo Atsimondrano	Ankadimanga	171	214.80	170.10	79.19	3 627	1 048	28.89
Analamanga	Antananarivo Atsimondrano	Fenoarivo	718.90	1 231	682.10	55.41	11 269	4 945	43.88
Analamanga	Antananarivo Atsimondrano	Alakamisy Fenoarivo	282	728.20	253.40	34.80	8 374	1 474	17.60
Analamanga	Antananarivo Atsimondrano	Soavina	256.40	294.50	235.20	79.86	12 456	7 050	56.60
Analamanga	Antananarivo Atsimondrano	Ambohijanaka	277.10	1 245.40	259.40	20.83	71 423	15 074	21.11
Analamanga	Antananarivo Atsimondrano	Ampahitrosy	326.20	719.10	321.80	44.75	9 609	3 131	32.59
Analamanga	Antananarivo Atsimondrano	Bongatsara	88.30	844.70	82.30	9.74	37 542	1 408	3.75

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Analamanga	Antananarivo Atsimondrano	Androhibe	745	1 948.90	733.20	37.62	18 689	4 934	26.40
Analamanga	Antananarivo Atsimondrano	Tsiafahy	246.10	2 049.30	225.80	11.02	58 059	2 959	5.10
Analamanga	Antananarivo Atsimondrano	Ambalavao	293.60	1 289.20	268.80	20.85	32 640	3 210	9.84
Itasy	Arivonimamo	Arivonimamo I	189.70	2 530.10	182.90	7.23	21 417	894	4.17
Itasy	Arivonimamo	Arivonimamo II	499.40	5 330.10	464.30	8.71	8 980	248	2.77
Itasy	Arivonimamo	Ambohitrambo	618.30	5 292.20	602.90	11.39	11 629	453	3.89
Itasy	Arivonimamo	Ampahimanga	299.80	7 520.10	295.80	3.93	6 364	188	2.95
Itasy	Arivonimamo	Amboanana	114.30	8 947.60	114	1.27	11 263	79	0.70
Itasy	Arivonimamo	Morafeno	195.80	4 268.70	191	4.47	4 482	91	2.03
Itasy	Arivonimamo	Imerintsiasosika	1 140.30	10 230.50	1 131.40	11.06	44 855	3 537	7.89
Itasy	Arivonimamo	Morarano	988.60	3 448	823.60	23.89	5 840	851	14.57
Itasy	Arivonimamo	Ambatomirahavavy	1 105.20	2 914.80	1 005.10	34.48	13 408	2 349	17.52
Itasy	Arivonimamo	Ambatomanga	878.10	5 530.70	745.70	13.48	12 591	983	7.81
Itasy	Arivonimamo	Manalalondo	170.80	5 198.80	172.60	3.32	15 722	336	2.14
Itasy	Arivonimamo	Antenimbe	60.20	3 395	59	1.74	3 002	37	1.24
Itasy	Arivonimamo	Alakamisikely	21.20	2 118.30	20.60	0.97	5 032	63	1.25
Itasy	Arivonimamo	Mahatsinjo Est	17.30	2 775.10	17.30	0.62	13 967	37	0.26
Itasy	Arivonimamo	Marofangady	17.90	1 856.10	17.40	0.94	3 913	20	0.51
Itasy	Arivonimamo	Rambolamasoandro Andranomiely	58.80	3 533.40	57.90	1.64	13 861	182	1.31
Itasy	Arivonimamo	Ambohimandry	1 276	9 109	1 250	13.72	34 222	3 427	10.01
Itasy	Arivonimamo	Antambolo	1 022.40	1 800.20	914.90	50.82	3 115	1 062	34.08
Itasy	Arivonimamo	Ambohimasina	363.50	1 566.90	172.90	11.03	4 969	397	8
Itasy	Arivonimamo	Ambohipandrano	229.10	4 588.50	225.80	4.92	11 143	406	3.64
Itasy	Arivonimamo	Miandrandra	74.90	7 316.50	73	1	10 935	79	0.73

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Itasy	Arivonimamo	Miantsoarivo	197.10	6 996.20	186.40	2.66	39 152	522	1.33
Itasy	Miarinarivo	Miarinarivo I	42.70	439.20	26.50	6.03	9 363	328	3.50
Itasy	Miarinarivo	Miarinarivo II	756.90	6 146.50	664.50	10.81	21 330	828	3.88
Itasy	Miarinarivo	Ambatomanjaka	750.50	6 106.50	442.40	7.24	18 593	337	1.81
Itasy	Miarinarivo	Manazary	1 872.10	6 917.60	1 718.80	24.85	11 671	2 789	23.90
Itasy	Miarinarivo	Antoby Est	1 138.70	5 384.20	1 061.20	19.71	12 077	1 831	15.16
Itasy	Miarinarivo	Soamahamanina	195.80	4 307.20	181.60	4.22	8 718	110	1.27
Itasy	Miarinarivo	Analavory	1 155.20	17 239	1 032.50	5.99	64 582	3 141	4.86
Itasy	Miarinarivo	Alatsinainikely	317.90	8 367.50	251.60	3.01	15 691	256	1.63
Itasy	Miarinarivo	Mandiavato	292.70	8 286.60	287.70	3.47	21 704	285	1.32
Itasy	Miarinarivo	Anosibe Ifanja	777.40	3 793.90	759.80	20.03	16 206	2 836	17.50
Itasy	Miarinarivo	Sarobaratra Ifanja	886.10	4 681.90	801.40	17.12	23 998	2 642	11.01
Itasy	Miarinarivo	Zoma Bealoka	118.90	2 739.60	111.90	4.08	6 118	68	1.12
Itasy	Miarinarivo	Soavimbazaha	323.70	3 568.60	289.70	8.12	9 967	322	3.23
Itasy	Miarinarivo	Andolofotsy	1 373.20	9 652	1 138	11.79	31 104	1 894	6.09
Itasy	Soavinandriana	Soavinandriana	1 707.90	12 929.70	1 521.10	11.76	27 016	2 903	10.74
Itasy	Soavinandriana	Dondona	406.30	2 339	305.90	13.08	5 053	408	8.07
Itasy	Soavinandriana	Ampary	138.40	3 665.40	128	3.49	6 673	222	3.32
Itasy	Soavinandriana	Mananasy	601.60	11 312.70	558.90	4.94	18 381	827	4.50
Itasy	Soavinandriana	Masindray	251.80	2 211.70	170.40	7.70	4 713	270	5.72
Itasy	Soavinandriana	Amparibohitra	215.80	2 318.10	186.20	8.03	3 478	186	5.34
Itasy	Soavinandriana	Ampefy	381.30	4 131.50	276.10	6.68	15 473	1 063	6.87
Itasy	Soavinandriana	Antanetibe	839.40	3 041.90	767.20	25.22	6 257	1 363	21.78
Itasy	Soavinandriana	Amparaky	666.10	6 934.30	544.90	7.86	5 643	363	6.42
Itasy	Soavinandriana	Amberomanga	438.40	5 402.20	375.90	6.96	5 364	281	5.23

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Itasy	Soavinandriana	Ankaranana	191.70	3 806.70	175.50	4.61	6 418	380	5.93
Itasy	Soavinandriana	Mahavelona	497.40	10 651.30	407.40	3.82	15 319	439	2.86
Itasy	Soavinandriana	Ankisabe	1 715.60	13 214.70	989.60	7.49	18 481	1 087	5.88
Itasy	Soavinandriana	Ambatoasana Centre	803	5 925.10	409.30	6.91	11 253	857	7.62
Itasy	Soavinandriana	Tamponala	2 120.50	8 720.90	552.10	6.33	25 193	1 659	6.58
Atsinanana	Toamasina I	Ambodimanga	2.60	2.90	0	0	4 346	39	0.90
Atsinanana	Toamasina I	Anjoma	3	6.20	0	0	6 189	47	0.77
Atsinanana	Toamasina I	Morarano	0	6.90	0	0	4 866	0	0
Atsinanana	Toamasina I	Tanambao V	0	0.40	0	0	2 168	0	0
Atsinanana	Toamasina I	Ankirihiry	0.10	10.20	0	0	14 996	0	0
Atsinanana	Brickaville	Brickaville	2 141.70	831.40	650.10	78.19	15 812	3 166	20.03
Atsinanana	Brickaville	Vohitranivona	1 238.70	301.60	256.10	84.91	14 862	1 264	8.51
Atsinanana	Brickaville	Anivorano Est	235.70	53.40	13.90	26.03	5 768	106	1.84
Atsinanana	Brickaville	Mahatsara	4 278.10	1 445.40	1 232.30	85.26	16 812	1 429	8.50
Atsinanana	Brickaville	Andovoranto	563.30	364.40	152.30	41.79	4 619	139	3.02
Atsinanana	Brickaville	Ambinaninony	180.70	49.20	0.50	1.02	8 152	51	0.62
Atsinanana	Brickaville	Fetraomby	247.70	121.10	11.90	9.83	8 305	60	0.73
Atsinanana	Brickaville	Vohipeno Razanaka	135	32.80	2.80	8.54	4 066	57	1.41
Atsinanana	Brickaville	Ranomafana Est	184.90	125	8.90	7.12	14 414	94	0.65
Atsinanana	Brickaville	Ampasimbe	70.70	72.60	3.60	4.96	6 850	25	0.36
Atsinanana	Brickaville	Fanasana	94.90	23.90	4	16.74	3 293	33	1
Atsinanana	Brickaville	Ambalarondra	166.10	33.60	2.70	8.04	7 138	36	0.51
Atsinanana	Brickaville	Maroseranana	746.10	56.30	1	1.78	19 608	123	0.63
Atsinanana	Brickaville	Lohariandava	148	27.40	1.50	5.47	6 712	19	0.28
Atsinanana	Brickaville	Andekaleka	41.80	27.80	0.20	0.72	6 514	10	0.15

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Atsinanana	Brickaville	Ambohimanana	242.60	52.60	0.10	0.19	18 757	52	0.28
Atsinanana	Brickaville	Anjahamana	523.50	23.20	0.30	1.29	8 231	81	0.98
Atsinanana	Vatomandry	Vatomandry	5.40	2	0	0	3 992	13	0.33
Atsinanana	Vatomandry	Ambodivoananto	411	47.40	26	54.85	7 006	236	3.37
Atsinanana	Vatomandry	Maintinandry	169.40	302.60	60.90	20.13	3 195	174	5.46
Atsinanana	Vatomandry	Tanambao Vahatrakaka	41.10	9.50	1.90	20	898	8	0.83
Atsinanana	Vatomandry	Tsarasambo	116.50	97.50	19.50	20	2 892	101	3.49
Atsinanana	Vatomandry	Sahamatevina	763.70	422.60	223.20	52.82	6 650	506	7.61
Atsinanana	Vatomandry	Antanambao Mahatsara	190.70	258.30	38.10	14.75	6 625	57	0.85
Atsinanana	Vatomandry	Iamborano	25.30	17.10	0.70	4.09	3 203	14	0.44
Atsinanana	Vatomandry	Ambalavolo	149.90	159.70	28.80	18.03	2 114	26	1.25
Atsinanana	Vatomandry	Amboditavolo	410.70	149.30	37.90	25.39	3 726	91	2.44
Atsinanana	Vatomandry	Niherenana	108.90	27	5.10	18.89	2 719	36	1.32
Atsinanana	Vatomandry	Ibaka Est	1 245	547.10	445.20	81.37	18 790	1 938	10.31
Atsinanana	Vatomandry	Niarovana Caroline	964	371.60	253.40	68.19	8 355	1 138	13.62
Atsinanana	Vatomandry	Tsivangiana	1 248.10	1 151.10	784.20	68.13	7 295	1 458	19.98
Atsinanana	Vatomandry	Ampasimazava	64.40	14.20	1.30	9.15	4 381	28	0.64
Atsinanana	Vatomandry	Ampasimadinika	124.80	54.40	5.50	10.11	15 465	124	0.80
Atsinanana	Vatomandry	Ifasina I	120.80	62.20	5.60	9	10 185	93	0.92
Atsinanana	Vatomandry	Ambalabe	36	39.80	6	15.08	1 760	6	0.34
Atsinanana	Vatomandry	Ifasina II	88	69.90	4.10	5.87	4 784	24	0.50
Atsinanana	Mahanoro	Mahanoro	502.10	727.30	176.20	24.23	31 611	615	1.95
Atsinanana	Mahanoro	Betsizaraina	697	363.60	133.30	36.66	11 246	444	3.95
Atsinanana	Mahanoro	Tsaravinany	375.60	301.10	119.40	39.65	23 376	427	1.83
Atsinanana	Mahanoro	Ambodiharina	839.80	557.70	232.60	41.71	15 839	587	3.71

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Atsinanana	Mahanoro	Manjakandriana	156.80	65.80	1.10	1.67	24 403	114	0.47
Atsinanana	Mahanoro	Masomeloka	888.20	1 066.10	346.30	32.48	14 038	589	4.20
Atsinanana	Mahanoro	Ambinanidilana	396.10	243.70	46.70	19.16	17 901	154	0.86
Atsinanana	Mahanoro	Ambodibonara	1 017.60	202.90	60.30	29.72	22 684	711	3.13
Atsinanana	Mahanoro	Ankazotsifantatra	241.10	136.10	49.30	36.22	9 091	105	1.15
Atsinanana	Mahanoro	Ambinanindrano	248	337.30	9.80	2.91	21 369	101	0.47
Atsinanana	Mahanoro	Befotaka	114.90	234.60	3.40	1.45	11 219	40	0.35
Atsinanana	Marolambo	Marolambo	339.30	333.30	21	6.30	26 502	239	0.90
Atsinanana	Marolambo	Betampona	163.80	163.60	0.90	0.55	15 792	89	0.56
Atsinanana	Marolambo	Tanambao Rabemanana	43.10	74.20	0.40	0.54	4 637	15	0.32
Atsinanana	Marolambo	Andonabe Sud	253.50	246.60	29.60	12	8 101	60	0.73
Atsinanana	Marolambo	Ambalapaiso II	25.30	49.90	0.50	1	1 729	14	0.80
Atsinanana	Marolambo	Ambodivoangy	79.70	352.40	7.90	2.24	8 759	24	0.28
Atsinanana	Marolambo	Ambohimilanja	226.10	395.20	14.70	3.72	16 829	106	0.63
Atsinanana	Marolambo	Ambatofisaka II	132.80	213.10	2.20	1.03	6 127	35	0.57
Atsinanana	Marolambo	Androrangavola	144.50	152.10	8.60	5.65	7 098	78	1.09
Atsinanana	Marolambo	Anosiarivo I	117.50	358.30	2.70	0.75	6 609	43	0.65
Atsinanana	Marolambo	Amboasary	85	105.60	3.60	3.41	4 963	57	1.14
Atsinanana	Marolambo	Lohavanana	95.80	86.10	4.60	5.34	4 871	32	0.65
Atsinanana	Marolambo	Ambodinonoka	225	144.30	1.10	0.76	14 168	86	0.61
Atsinanana	Marolambo	Sahakevo	213.20	383.40	3.50	0.91	14 855	84	0.57
Atsinanana	Toamasina II	Toamasina Suburbaine	344.10	140.50	58.10	41.35	145 148	1 973	1.36
Atsinanana	Toamasina II	Antetezambaro	109.10	118.30	16.20	13.69	227 236	895	0.39
Atsinanana	Toamasina II	Fanandrana	81.80	68.10	5.40	7.93	17 275	119	0.69
Atsinanana	Toamasina II	Ambodiriana	122.70	10.50	0.10	0.95	20 145	91	0.45

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Atsinanana	Toamasina II	Ampasimadinika Manambolo	44.30	36.20	1.20	3.31	8 573	27	0.32
Atsinanana	Toamasina II	Amboditandroroho	190.30	297.30	89.30	30.04	22 219	311	1.40
Atsinanana	Toamasina II	Mahavelona (Foulpointe)	267	301.70	65.10	21.58	31 035	343	1.11
Atsinanana	Toamasina II	Sahambala	178.30	78	1.30	1.67	16 389	51	0.31
Atsinanana	Toamasina II	Ambodilazana	155.10	27.20	0.70	2.57	10 499	26	0.25
Atsinanana	Toamasina II	Ampasimbe Onibe	46.10	137	3.30	2.41	24 393	47	0.19
Atsinanana	Toamasina II	Mangabe	57	33.70	0.70	2.08	15 831	67	0.42
Atsinanana	Toamasina II	Amporofofo	25.70	39.80	0.90	2.26	11 869	32	0.27
Atsinanana	Toamasina II	Antenina	180.10	66.20	1.50	2.27	11 083	38	0.34
Atsinanana	Toamasina II	Andondabe	18.90	66.80	1.30	1.95	20 032	21	0.11
Atsinanana	Toamasina II	Ampisokina	28.20	24	0.70	2.92	11 257	30	0.27
Atsinanana	Toamasina II	Andranobolaha	134.40	14.60	0.10	0.68	6 022	20	0.34
Atsinanana	Toamasina II	Fito	640.10	56.50	1.20	2.12	10 997	95	0.86
Atsinanana	Antanambao Manampontsy	Antanambao Manampontsy	88.70	66.90	1.90	2.84	12 910	60	0.46
Atsinanana	Antanambao Manampontsy	Mahela	15.60	129.30	1.60	1.24	14 780	6	0.04
Atsinanana	Antanambao Manampontsy	Saivaza	106.70	53.10	1.10	2.07	4 940	19	0.38
Atsinanana	Antanambao Manampontsy	Antanandehibe	20.70	121.10	0.10	0.08	7 573	3	0.04
Atsinanana	Antanambao Manampontsy	Manakana	52.90	181.90	8.10	4.45	3 811	17	0.44
Boeny	Ambato Boeni	Andranofasika	37.10	368.30	8.60	2.34	11 632	36	0.31
Boeny	Ambato Boeni	Madirovalo	1 369.30	4 894.20	781.20	15.96	76 616	2 860	3.73
Boeny	Ambato Boeni	Anjajaja	1 612.90	3 649.50	258.10	7.07	28 379	1 088	3.83
Sofia	Port0Berge (Boriziny0Vaovao)	Andranomeva	175.50	571.10	39.70	6.95	27 965	320	1.14
Sofia	Port0Berge (Boriziny0Vaovao)	Amparihy	2 370.70	1 285.50	664.90	51.72	23 111	3 458	14.96
Sofia	Port0Berge (Boriziny0Vaovao)	Leanja	2 350.10	2 938.70	907.30	30.87	46 892	1 935	4.13

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Sofia	Port0Berge (Boriziny0Vaovao)	Marovato	56.20	235.30	0	0	18 517	15	0.08
Sofia	Port0Berge (Boriziny0Vaovao)	Ambodimahabibo	81.90	436.50	3.60	0.82	18 623	31	0.17
Sofia	Port0Berge (Boriziny0Vaovao)	Ambodivongo	22	170.10	0.80	0.47	12 413	11	0.09
Alaotra Mangoro	Amparafaravola	Amparafaravola	7 694.40	7 760.60	2 945.50	37.95	35 024	6 424	18.34
Alaotra Mangoro	Amparafaravola	Bedidy	807.30	2 092	76.60	3.66	5 581	159	2.85
Alaotra Mangoro	Amparafaravola	Ambohimandroso	1 841.80	3 205.60	1 584.10	49.42	11 332	2 183	19.26
Alaotra Mangoro	Amparafaravola	Sahamamy	4 794.30	5 397.80	2 390.30	44.28	25 889	5 302	20.48
Alaotra Mangoro	Amparafaravola	Ambatoiny	11 041.10	13 033.90	7 031.30	53.95	9 297	4 859	52.26
Alaotra Mangoro	Amparafaravola	Ampasikely	410.40	1 230.20	77.10	6.27	6 387	279	4.36
Alaotra Mangoro	Amparafaravola	Andrebakely Sud	646	1 397.50	352.60	25.23	6 337	739	11.66
Alaotra Mangoro	Amparafaravola	Ambohitrarivo	2 071.40	4 402.20	1 758.60	39.95	18 773	4 483	23.88
Alaotra Mangoro	Amparafaravola	Anororo	4 802.10	7 019.40	4 377.60	62.36	13 539	7 458	55.08
Alaotra Mangoro	Amparafaravola	Morarano Chrome	6 287.80	12 735.90	5 276.20	41.43	43 955	3 479	7.92
Alaotra Mangoro	Amparafaravola	Ranomainty	390.20	1 655.80	326.20	19.70	2 678	53	1.99
Alaotra Mangoro	Amparafaravola	Ambohijanahary	4 339.50	8 179.10	3 894.70	47.62	27 027	6 468	23.93
Alaotra Mangoro	Amparafaravola	Tanambe	3 684.40	5 219.50	3 618.40	69.32	8 792	4 843	55.08
Alaotra Mangoro	Amparafaravola	Beanana	947.60	3 180.90	721.40	22.68	14 094	1 079	7.65
Alaotra Mangoro	Amparafaravola	Vohitsara	3 177.80	4 912.70	3 003.60	61.14	4 449	2 467	55.45
Alaotra Mangoro	Amparafaravola	Amboavory	549.60	4 719.10	395.80	8.39	25 916	571	2.20
Alaotra Mangoro	Amparafaravola	Andilana Nord	670.20	1 330.40	489.70	36.81	3 470	491	14.16
Alaotra Mangoro	Amparafaravola	Ambodimanga	672.30	1 894.50	638.70	33.71	3 788	879	23.19
Alaotra Mangoro	Amparafaravola	Vohimena	1 116.30	2 445.80	709.20	29	24 545	1 431	5.83
Alaotra Mangoro	Amparafaravola	Andrebakely Nord	582.60	1 695.50	332.30	19.60	42 584	915	2.15
Alaotra Mangoro	Ambatondrazaka	Ambatondrazaka	47.60	631.20	46.10	7.30	5 267	90	1.72

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Alaoatra Mangoro	Ambatondrazaka	Feramanga Nord	421.80	3 039.20	411.90	13.55	19 608	663	3.38
Alaoatra Mangoro	Ambatondrazaka	Ambatondrazaka Suburbaine	250	2 124.30	234.70	11.05	9 332	398	4.27
Alaoatra Mangoro	Ambatondrazaka	Ambandrika	84.70	917	82.40	8.99	1 846	97	5.27
Alaoatra Mangoro	Ambatondrazaka	Ampitatsimo	3 009.80	5 443.60	2 393.80	43.97	2 087	693	33.20
Alaoatra Mangoro	Ambatondrazaka	Ambohitsilaozana	2 131.40	5 908.20	1 552.70	26.28	57 991	2 757	4.75
Alaoatra Mangoro	Ambatondrazaka	Ilafy	900.50	4 989.70	868.90	17.41	5 615	369	6.57
Alaoatra Mangoro	Ambatondrazaka	Manakambahiny Andrefana	3 476.10	7 671.80	3 147.60	41.03	4 763	1 020	21.41
Alaoatra Mangoro	Ambatondrazaka	Antsangasanga	2 731.60	3 559.20	2 645.20	74.32	1 098	741	67.46
Alaoatra Mangoro	Ambatondrazaka	Ambatosoratra	965	4 634	795.70	17.17	37 927	1 775	4.68
Alaoatra Mangoro	Ambatondrazaka	Andilanatoby	1 352.10	5 166	1 189	23.02	14 321	479	3.35
Alaoatra Mangoro	Ambatondrazaka	Bejofo	3 095.40	5 027.30	2 988.20	59.44	2 755	1 188	43.13
Alaoatra Mangoro	Ambatondrazaka	Didy	5 249.70	9 819.90	3 187.30	32.46	64 965	1 463	2.25
Alaoatra Mangoro	Ambatondrazaka	Imerimandroso	619.10	2 818.90	418.30	14.84	20 444	1 357	6.64
Alaoatra Mangoro	Ambatondrazaka	Amparihintsokatra	248.60	2 345.50	202.50	8.63	30 382	280	0.92
Alaoatra Mangoro	Ambatondrazaka	Antanandava	101.90	938.10	52.80	5.63	22 106	159	0.72
Alaoatra Mangoro	Ambatondrazaka	Andromba	96.70	918.90	74.40	8.10	10 342	149	1.45
Alaoatra Mangoro	Ambatondrazaka	Manakambahiny Antsinanana	143.30	1 726.50	76.70	4.44	50 389	93	0.19
Alaoatra Mangoro	Ambatondrazaka	Soalazaina	351.10	2 815.50	54.40	1.93	2 064	21	1.04
Alaoatra Mangoro	Ambatondrazaka	Tanambao Besakay	505.90	2 756	83.30	3.02	4 129	31	0.75
Alaoatra Mangoro	Moramanga	Moramanga	21.60	587.20	19.30	3.29	1 428	10	0.70
Alaoatra Mangoro	Moramanga	Ambohibary	1 171.10	5 460.40	501.50	9.18	35 327	576	1.63
Alaoatra Mangoro	Moramanga	Ampasimpotsy Gara	167.30	748	68.70	9.18	1 690	15	0.90
Alaoatra Mangoro	Moramanga	Andasibe	361.20	860.10	206.30	23.99	5 802	26	0.45
Alaoatra Mangoro	Moramanga	Anosibe Ifody	190.60	843.30	84.20	9.98	4 379	147	3.36
Alaoatra Mangoro	Moramanga	Vodiriana	180	1 071.20	86.90	8.11	2 595	49	1.88

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Alaotra Mangoro	Moramanga	Morarano Gara	1 810.70	4 642.30	895.80	19.30	28 865	690	2.39
Alaotra Mangoro	Moramanga	Belavabary	390.60	1 397.60	199	14.24	4 459	228	5.10
Alaotra Mangoro	Moramanga	Sabotsy Anjiro	238.50	1 303.70	130.60	10.02	9 634	276	2.86
Alaotra Mangoro	Moramanga	Ambohidronono	450.40	1 679.90	305.80	18.20	16 581	334	2.02
Alaotra Mangoro	Moramanga	Beforona	53.30	89.70	3.40	3.79	23 358	24	0.10
Alaotra Mangoro	Moramanga	Ambatovola	13.50	18.40	0.20	1.09	10 348	8	0.08
Alaotra Mangoro	Moramanga	Lakato	35.90	119	0	0	16 398	6	0.04
Alaotra Mangoro	Moramanga	Amboasary	2 635.20	4 487.20	1 352.10	30.13	36 115	2 596	7.19
Alaotra Mangoro	Moramanga	Fierenana	735.90	4 470.90	544.10	12.17	18 853	291	1.54
Alaotra Mangoro	Moramanga	Mandialaza	539	2 558.40	425.80	16.64	7 144	232	3.24
Alaotra Mangoro	Moramanga	Antaniditra	157	1 165.20	122.60	10.52	5 146	63	1.22
Alaotra Mangoro	Moramanga	Ampasipotsy Mandialaza	186.20	1 409.90	153.90	10.92	3 454	78	2.25
Alaotra Mangoro	Moramanga	Antanandava	348.90	1 374	147.40	10.73	5 024	131	2.61
Alaotra Mangoro	Moramanga	Mangarivotra	528.50	1 125.60	135	11.99	6 535	124	1.89
Alaotra Mangoro	Moramanga	Andaingo	1 365.80	6 259.90	1 020.50	16.30	44 051	1 821	4.13
Alaotra Mangoro	Andilamena	Andilamena	2 633.30	6 562.40	1 190.10	18.14	42 123	1 300	3.09
Alaotra Mangoro	Andilamena	Bemaitso	821.90	3 696.60	608.90	16.47	33 906	722	2.13
Alaotra Mangoro	Andilamena	Antanimenabaka	2 071.10	7 060.80	1 531.50	21.69	18 829	1 102	5.85
Alaotra Mangoro	Andilamena	Tanananifololahy	72	1 012.10	36.90	3.65	4 096	14	0.34
Alaotra Mangoro	Andilamena	Maroadabo	56.40	684	9.80	1.43	5 789	6	0.11
Alaotra Mangoro	Andilamena	Marovato	129.30	470.90	4.20	0.89	6 773	15	0.23
Alaotra Mangoro	Andilamena	Miarinarivo	249.10	1 330.10	33	2.48	14 465	37	0.26
Alaotra Mangoro	Andilamena	Maitsokely	72.80	908.20	11.70	1.29	12 195	10	0.08
Alaotra Mangoro	Anosibe0An'ala	Anosibe An'ala	153.80	943.60	17.90	1.90	12 528	39	0.31
Alaotra Mangoro	Anosibe0An'ala	Ampasimaneva	158.20	113.30	9	7.94	4 909	26	0.52

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Alaotra Mangoro	Anosibe0An'ala	Ampandroantraka	18	221.30	1.50	0.68	5 025	3	0.06
Alaotra Mangoro	Anosibe0An'ala	Tratramarina	12.20	96.30	0.40	0.42	3 776	2	0.07
Alaotra Mangoro	Anosibe0An'ala	Antandrokomby	215.80	254.10	16.50	6.49	8 657	84	0.98
Alaotra Mangoro	Anosibe0An'ala	Ambalaomby	193.70	227.20	6.10	2.68	9 986	65	0.65
Alaotra Mangoro	Anosibe0An'ala	Niarovana Marosampanana	94.10	256.30	16.20	6.32	1 577	20	1.26
Alaotra Mangoro	Anosibe0An'ala	Tsaravinany	100.70	254.50	6.50	2.55	4 487	29	0.65
Alaotra Mangoro	Anosibe0An'ala	Longozabe	303.70	268.50	18.70	6.96	10 834	128	1.19
Alaotra Mangoro	Anosibe0An'ala	Ambatoharanana	109.50	102.50	0.50	0.49	6 275	31	0.50
Boeny	Mahajanga I	Mahajanga	16.60	0.10	0	0	21 624	1 257	5.82
Boeny	Mahajanga I	Mahabibo	255.60	21	1.40	6.67	75 762	7 619	10.06
Boeny	Soalala	Soalala	2 136.20	1 484.70	540.30	36.39	30 895	432	1.40
Boeny	Soalala	Ambohipaky	1 395.80	655.30	278.90	42.56	24 265	329	1.35
Boeny	Soalala	Andranomavo	617	243	6.50	2.67	49 490	82	0.17
Boeny	Ambato Boeni	Ambato Ambarimay	5 137	11 669.30	3 055.90	26.19	51 358	4 667	9.09
Boeny	Ambato Boeni	Ankijabe	1 776.60	5 089.90	1 055.10	20.73	41 833	2 603	6.22
Boeny	Ambato Boeni	Tsaramandroso	396.70	1 886.10	172.90	9.17	18 488	346	1.87
Boeny	Ambato Boeni	Ambondromamy	225.50	502.80	29.20	5.81	39 756	410	1.03
Boeny	Ambato Boeni	Ankirihitra	1 555.10	878.20	162.80	18.54	30 061	412	1.37
Boeny	Ambato Boeni	Andranomamy	792.80	3 649.70	94.70	2.59	38 217	483	1.26
Boeny	Ambato Boeni	Manerinerina	685.20	2 471	256.90	10.40	21 129	503	2.38
Boeny	Ambato Boeni	Sitampiky	1 083.60	760.10	11.40	1.50	50 321	248	0.49
Boeny	Marovoay	Marovoay Ville	412.60	5 208.40	331.70	6.37	28 234	491	1.74
Boeny	Marovoay	Marovoay Banlieue	1 641	6 408	353.60	5.52	41 060	969	2.36
Boeny	Marovoay	Antanambao Andranolava	46.10	1 022.40	11.70	1.14	7 501	15	0.20
Boeny	Marovoay	Anosinalainolona	507.70	4 118.10	396.10	9.62	12 769	457	3.58

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Boeny	Marovoay	Ambolomoty	170.60	3 060.10	165.90	5.42	3 711	135	3.63
Boeny	Marovoay	Marovoay	395.70	544.90	32.10	5.89	31 745	456	1.44
Boeny	Marovoay	Tsararano	268.30	797.70	14.60	1.83	6 448	93	1.44
Boeny	Marovoay	Ankazomborona	640	3 983.50	254.40	6.39	62 078	707	1.14
Boeny	Marovoay	Manaratsandry	3 150.80	9 380.70	2 174.30	23.18	15 416	2 207	14.31
Boeny	Marovoay	Antanimasaka	578.80	1 973.60	539.40	27.33	10 628	838	7.89
Boeny	Marovoay	Bemaharivo	1 130.60	4 583.70	100.80	2.20	18 178	225	1.24
Boeny	Marovoay	Ankaraobato	1 059.80	1 391.40	220.60	15.85	11 058	89	0.80
Boeny	Mitsinjo	Mitsinjo	1 874.60	1 243.20	370.20	29.78	4 277	115	2.69
Boeny	Mitsinjo	Antseza	3 226.40	1 669.90	893.40	53.50	3 301	238	7.20
Boeny	Mitsinjo	Antongomena Bevary	1 681.50	2 260.80	543.40	24.04	7 421	502	6.77
Boeny	Mitsinjo	Matsakabanja	2 290.80	1 895.50	478.20	25.23	18 885	503	2.66
Boeny	Mitsinjo	Katsepy	1 211.60	372.90	125.30	33.60	6 403	90	1.40
Boeny	Mitsinjo	Bekipay	1 021.10	1 918.40	209.40	10.92	3 695	78	2.11
Boeny	Mitsinjo	Ambarimanginga	63.70	80.10	0.10	0.12	8 330	21	0.25
Boeny	Mahajanga II	Belobaka	505.80	93.10	0.90	0.97	92 375	9 492	10.28
Boeny	Mahajanga II	Boanamary	543.20	43.80	0	0	161 643	18 085	11.19
Boeny	Mahajanga II	Ambalakida	332.10	311.50	21.40	6.87	19 228	88	0.46
Boeny	Mahajanga II	Betsako	606.80	801.50	21.50	2.68	4 540	194	4.27
Boeny	Mahajanga II	Mariarano	881.60	393.30	23.80	6.05	23 288	152	0.65
Boeny	Mahajanga II	Bekobay	35.60	827.60	5.70	0.69	15 627	18	0.12
Boeny	Mahajanga II	Andranoboka	390.60	498	1.10	0.22	8 387	91	1.09
Boeny	Mahajanga II	Mahajamba Usine	452	4 022.80	243.20	6.05	14 202	242	1.70
Boeny	Mahajanga II	Ambalabe Befanjava	91.60	2 439.20	23	0.94	7 304	17	0.24
Sofia	Port0Berge (Boriziny0Vaovao)	Port Berge	269.60	274.30	114.90	41.89	13 699	829	6.05

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Sofia	Port0Berge (Boriziny0Vaovao)	Ambanjabe	2 026.90	1 991.80	1 240.20	62.27	12 334	2 324	18.85
Sofia	Port0Berge (Boriziny0Vaovao)	Tsaranana I	1 031	1 054.40	331.70	31.46	17 735	677	3.82
Sofia	Port0Berge (Boriziny0Vaovao)	Tsarahasina	3 093.50	2 308.80	1 069.90	46.34	31 777	4 103	12.91
Sofia	Port0Berge (Boriziny0Vaovao)	Tsiningia	939.90	3 913.10	130.80	3.34	45 631	422	0.92
Sofia	Port0Berge (Boriziny0Vaovao)	Ambodisakoana	414.30	1 331.10	145.20	10.91	19 964	354	1.77
Sofia	Port0Berge (Boriziny0Vaovao)	Tsinjomitondraka	401.60	4 976.20	210.80	4.24	23 571	136	0.58
Sofia	Port0Berge (Boriziny0Vaovao)	Maevaranohely	16.50	91.30	0.40	0.44	17 327	4	0.02
Sofia	Port0Berge (Boriziny0Vaovao)	Port Berge II	2 855.50	1 534.10	967.60	63.07	35 751	5 101	14.27
Sofia	Mandritsara	Mandritsara	0.50	665.40	0	0	6 603	1	0.02
Sofia	Mandritsara	Antanandava	34.10	3 533.10	25.80	0.73	17 031	50	0.29
Sofia	Mandritsara	Antsoha	12.80	1 885.10	6.60	0.35	15 488	10	0.06
Sofia	Mandritsara	Tsaranana	6.50	1 390.80	1.20	0.09	9 077	4	0.05
Sofia	Mandritsara	Kalandy	285	2 136.60	149.20	6.98	20 407	235	1.15
Sofia	Mandritsara	Antsirabe Centre	26.60	884.80	12.30	1.39	9 574	17	0.17
Sofia	Mandritsara	Antsiatsiaka	34.80	44	2	4.55	9 408	8	0.08
Sofia	Mandritsara	Amboabo	15.20	1 138.10	0.80	0.07	6 839	3	0.04
Sofia	Mandritsara	Manampaneva	13.40	446.80	1	0.22	8 342	3	0.03
Sofia	Mandritsara	Ambarikorano	2.50	671.60	1.60	0.24	5 590	3	0.05
Sofia	Mandritsara	Andratamarina	1.20	107.20	0	0	2 501	0	0.01
Sofia	Mandritsara	Ambaripaika	0.40	758.50	0.10	0.01	4 779	0	0
Sofia	Mandritsara	Ambodiamontana Kianga	1.10	697.40	0.70	0.10	4 349	1	0.02
Sofia	Mandritsara	Ambalikirajy	134.80	949.80	35.60	3.75	12 407	67	0.54

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Sofia	Mandritsara	Tsarajomoka	82.30	645.20	35	5.42	4 104	34	0.84
Sofia	Mandritsara	Antsatramidola	6.20	1 201.50	4.70	0.39	11 383	3	0.03
Sofia	Mandritsara	Ankiakabe0Fonoko	2.10	438.80	0.20	0.05	3 260	1	0.02
Sofia	Mandritsara	Marotandrano	290.90	2 464.80	138.70	5.63	20 526	195	0.95
Sofia	Mandritsara	Ambilombe	5.80	526.40	1.40	0.27	4 160	2	0.04
Sofia	Mandritsara	Andohajango	51.10	827.10	4.60	0.56	18 981	11	0.06
Sofia	Mandritsara	Anjiabe	49.80	190.80	3	1.57	6 447	14	0.22
Sofia	Mandritsara	Ambohisoa	115.30	407.60	0.30	0.07	14 526	36	0.25
Sofia	Mandritsara	Ampatakamaroeny	573.40	115.30	1.80	1.56	13 138	59	0.45
Sofia	Mandritsara	Ankiabe0Salohy	39.40	1 101.20	2.70	0.25	18 335	13	0.07
Sofia	Mandritsara	Pont Sofia	33.30	543.30	7.80	1.44	12 893	62	0.48
Sofia	Mandritsara	Ambodiadabo	132.30	392.90	0.30	0.08	10 639	17	0.16
Sofia	Mandritsara	Amborondolo	69	346.10	1.80	0.52	6 567	10	0.16
Sofia	Mandritsara	Antanambao'n'amberina	380.20	29.80	3	10.07	15 506	56	0.36
Sofia	Analalava	Analalava	720.70	355.80	8.10	2.28	13 417	144	1.07
Sofia	Analalava	Ambarijeby Sud	471.90	97.60	1.70	1.74	8 717	147	1.68
Sofia	Analalava	Amboloboza	1 624.60	740.20	4	0.54	16 534	290	1.75
Sofia	Analalava	Befotaka Nord	669.70	472.70	21.10	4.46	20 118	290	1.44
Sofia	Analalava	Ambaliha	124	211.10	14.40	6.82	17 811	47	0.26
Sofia	Analalava	Maromandia	2 104.70	432.90	78.50	18.13	23 814	707	2.97
Sofia	Analalava	Marovatolena	877.40	178.20	0.30	0.17	17 135	210	1.23
Sofia	Analalava	Andribavontsona	157.40	395.90	41.10	10.38	4 100	32	0.77
Sofia	Analalava	Angoaka Sud	608.50	4 491.50	348.10	7.75	6 030	174	2.89
Sofia	Analalava	Marovantaza	1 506.90	1 546.90	542.60	35.08	15 484	1 146	7.40
Sofia	Analalava	Ankaramy	1 199.60	51.40	3	5.84	18 921	335	1.77

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Sofia	Analalava	Antonibe	2 291.30	793.50	9.40	1.18	32 038	399	1.25
Sofia	Analalava	Mahadrodroka	656.90	1 529.30	140.80	9.21	13 277	185	1.40
Sofia	Befandriana Nord	Befandriana Nord	5.60	147.30	2	1.36	7 887	23	0.29
Sofia	Befandriana Nord	Morafeno	483.60	1 654.30	13.60	0.82	38 739	215	0.56
Sofia	Befandriana Nord	Ambodimotso Sud	55.20	1 309.60	37.20	2.84	15 753	98	0.62
Sofia	Befandriana Nord	Tsiamalao	6 621.80	1 330.10	46.70	3.51	29 184	2 839	9.73
Sofia	Befandriana Nord	Maroamalona	166.20	748.70	0.90	0.12	14 167	88	0.62
Sofia	Befandriana Nord	Tsarahonenana	105.30	1 639.10	26.50	1.62	26 560	78	0.29
Sofia	Befandriana Nord	Antsakanalabe	83.50	200.30	0.50	0.25	16 974	19	0.11
Sofia	Befandriana Nord	Ambararata	223.50	576.70	5.40	0.94	22 678	123	0.54
Sofia	Befandriana Nord	Ambolidibe Est	17.80	859.50	0.20	0.02	35 383	8	0.02
Sofia	Befandriana Nord	Ankarongana	12.60	1 096.40	5.10	0.47	26 517	4	0.02
Sofia	Befandriana Nord	Antsakabary	146.70	1 687.70	31.20	1.85	22 355	20	0.09
Sofia	Befandriana Nord	Matsondakana	964.40	2 892	394.90	13.65	44 500	404	0.91
Sofia	Antsohihy	Antsohihy	14.30	26.70	0.10	0.37	8 011	84	1.05
Sofia	Antsohihy	Ankerika	912.50	1 410.20	87	6.17	13 015	346	2.66
Sofia	Antsohihy	Ampandriankilandy	421.90	754.20	166.60	22.09	22 108	392	1.77
Sofia	Antsohihy	Anjalazala	478.30	80.80	0.50	0.62	7 519	75	1
Sofia	Antsohihy	Anahidrano	473.90	1 533.80	102.70	6.70	6 178	201	3.25
Sofia	Antsohihy	Ambodimandresy	420.70	538.20	87.50	16.26	13 862	184	1.32
Sofia	Antsohihy	Anjamangirana	870.10	832.90	50.10	6.02	18 333	246	1.34
Sofia	Antsohihy	Ambodimanary	122.10	275.60	28.50	10.34	13 746	27	0.20
Sofia	Antsohihy	Antsahabe	4 100.20	375.10	52.60	14.02	20 908	1 795	8.59
Sofia	Antsohihy	Ambodimadiro	601.10	764.80	217.40	28.43	13 186	347	2.63
Sofia	Antsohihy	Andreba	237	340.50	86.80	25.49	6 105	105	1.73

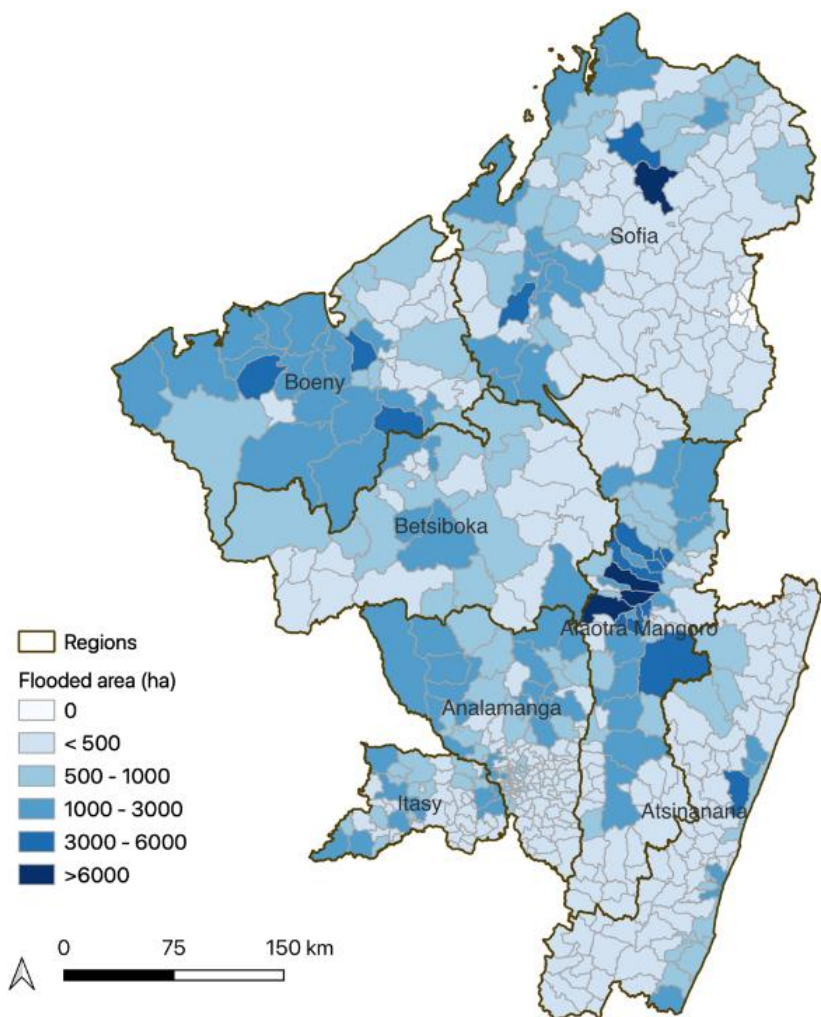
Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Sofia	Antsohihy	Maroala	889.10	1 090.40	286.30	26.26	11 789	322	2.73
Sofia	Bealanana	Bealanana	1 000.40	5 086.60	790.90	15.55	18 219	897	4.92
Sofia	Bealanana	Beandrarezona	735.70	4 209.10	469.10	11.14	16 312	608	3.73
Sofia	Bealanana	Antananivo Haut	222.40	227.90	4	1.76	11 200	35	0.31
Sofia	Bealanana	Antsamaka	578	3 305.80	370.70	11.21	7 629	157	2.06
Sofia	Bealanana	Ambatosia	587.10	4 150.10	316	7.61	16 947	237	1.40
Sofia	Bealanana	Ambodiampana	342.10	3 339.70	292.70	8.76	5 307	206	3.89
Sofia	Bealanana	Ambatoriha Est	650.40	5 771.20	379.30	6.57	8 177	304	3.71
Sofia	Bealanana	Ambovonomby	607.40	5 722.20	542.90	9.49	6 901	147	2.14
Sofia	Bealanana	Analila	865.30	4 480	810.50	18.09	2 883	223	7.75
Sofia	Bealanana	Anjozoromadosy	196.60	1 586.40	139.60	8.80	6 863	92	1.34
Sofia	Bealanana	Mangindrano	792.50	6 941.60	768.40	11.07	11 638	379	3.26
Sofia	Bealanana	Ambararatabe Nord	600.70	3 911.30	478.40	12.23	8 758	295	3.36
Sofia	Bealanana	Ambodisikidy	38.40	659.10	13.10	1.99	19 991	17	0.08
Sofia	Bealanana	Ambararata Sofia	18.90	456.30	9.40	2.06	5 252	3	0.05
Sofia	Bealanana	Marotolana	401.70	2 960.60	303.50	10.25	11 477	238	2.07
Sofia	Bealanana	Ambodiadabo M	333.40	2 459.10	251.60	10.23	16 119	274	1.70
Sofia	Bealanana	Ankazotokana	113.30	691.10	87.40	12.65	7 389	118	1.60
Sofia	Bealanana	Ambalaromba	223.40	684.20	138.40	20.23	8 780	105	1.19
Sofia	Mampikony	Mampikony I	23.70	112.30	6.10	5.43	3 072	108	3.50
Sofia	Mampikony	Mampikony II	1 392.20	2 189.50	475.50	21.72	52 511	1 126	2.14
Sofia	Mampikony	Ambohitoaka	895	1 893.80	178.50	9.43	22 367	1 084	4.85
Sofia	Mampikony	Ankiririky	289.20	286.70	86.90	30.31	5 680	413	7.27
Sofia	Mampikony	Bekoratsaka	2 881.40	4 414.50	680.70	15.42	55 882	1 441	2.58
Sofia	Mampikony	Malakialina	1 474.80	3 561	776.30	21.80	14 645	1 273	8.69

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Sofia	Mampikony	Betaramahamay	474.90	383.90	22.80	5.94	9 647	218	2.26
Sofia	Mampikony	Komajja	13.30	59.50	0	0	9 903	3	0.03
Sofia	Mampikony	Ampasimatera	915.90	1 809	286.80	15.85	15 679	668	4.26
Sofia	Mampikony	Ambodihazoambo	31.70	229.50	0.10	0.04	13 877	7	0.05
Betsiboka	Maevatanana	Maevatanana I	5.60	124.10	0.30	0.24	20 649	7	0.03
Betsiboka	Maevatanana	Maevatanana II	504.40	505.30	36.50	7.22	25 304	145	0.57
Betsiboka	Maevatanana	Beratsimanina	82.80	318	13.10	4.12	4 434	34	0.77
Betsiboka	Maevatanana	Bemokotra	284.20	386.40	66.60	17.24	5 369	47	0.87
Betsiboka	Maevatanana	Mahazoma	581.70	622.10	51.80	8.33	15 904	115	0.72
Betsiboka	Maevatanana	Antsiafabositra	1 158.70	675.20	17.40	2.58	15 295	64	0.42
Betsiboka	Maevatanana	Antanimbary	1 760.20	13	0.30	2.31	4 510	170	3.78
Betsiboka	Maevatanana	Tsararano	2 163.90	2 231.20	749.40	33.59	8 263	570	6.90
Betsiboka	Maevatanana	Ambalajia	287.20	2 058	106.30	5.17	5 020	131	2.62
Betsiboka	Maevatanana	Ambalanjanakomby	640.40	1 120.70	143.80	12.83	14 148	96	0.68
Betsiboka	Maevatanana	Marokoro	210.20	85.10	1.80	2.12	2 573	10	0.40
Betsiboka	Maevatanana	Maria	507.10	903.80	144.90	16.03	6 941	101	1.46
Betsiboka	Maevatanana	Andriba	318.10	1 097.70	61.30	5.58	13 298	54	0.41
Betsiboka	Maevatanana	Mahatsinjo	734	1 768	276.70	15.65	9 958	187	1.88
Betsiboka	Maevatanana	Morafeno	535.20	1 313.20	123.10	9.37	11 163	72	0.65
Betsiboka	Maevatanana	Mangabe	2 287	1 247.50	394.50	31.62	13 858	581	4.19
Betsiboka	Maevatanana	Madiromirafy	229.40	801.60	112	13.97	2 479	82	3.30
Betsiboka	Tsaratana	Tsaratana	210.90	1 452	23.60	1.63	13 565	24	0.17
Betsiboka	Tsaratana	Bekapaika	579.70	1 067	28.50	2.67	12 085	87	0.72
Betsiboka	Tsaratana	Tsararova	37.50	727.70	15.70	2.16	8 733	17	0.19
Betsiboka	Tsaratana	Betrandraka	407.40	1 388.10	22.70	1.64	5 529	23	0.41

Region (ADM1)	District (ADM2)	Commune (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Betsiboka	Tsaratana	Keliloha	13.60	2 243.50	5	0.22	4 652	1	0.03
Betsiboka	Tsaratana	Sarobaratra	518	1 066.70	48.30	4.53	19 496	146	0.75
Betsiboka	Tsaratana	Ampandrana	72.10	621.70	5.10	0.82	2 227	4	0.19
Betsiboka	Tsaratana	Andriamena	604	3 592.90	80.70	2.25	17 644	51	0.29
Betsiboka	Tsaratana	Ambakireny	1 120.70	5 163.50	232.30	4.50	15 480	228	1.47
Betsiboka	Tsaratana	Brieville	220.40	2 866.90	73	2.55	16 161	49	0.30
Betsiboka	Tsaratana	Sakoamadinika	314.20	1 920.80	39.70	2.07	7 746	35	0.45
Betsiboka	Tsaratana	Manakana	432.50	2 858.60	120.40	4.21	5 190	48	0.93
Betsiboka	Kandreho	Kandreho	56.40	338.10	19.80	5.86	9 055	27	0.30
Betsiboka	Kandreho	Ambaliha	88.40	172.30	7	4.06	2 716	14	0.53
Betsiboka	Kandreho	Behazomaty	141.10	101.20	2.30	2.27	7 315	32	0.43
Betsiboka	Kandreho	Antanimbaribe	541.10	66.40	2.60	3.92	13 224	25	0.19
Betsiboka	Kandreho	Betaimboay	104.10	187.60	6.40	3.41	12 597	20	0.16
Betsiboka	Kandreho	Andasibe	132.80	381.70	1.40	0.37	9 714	11	0.12

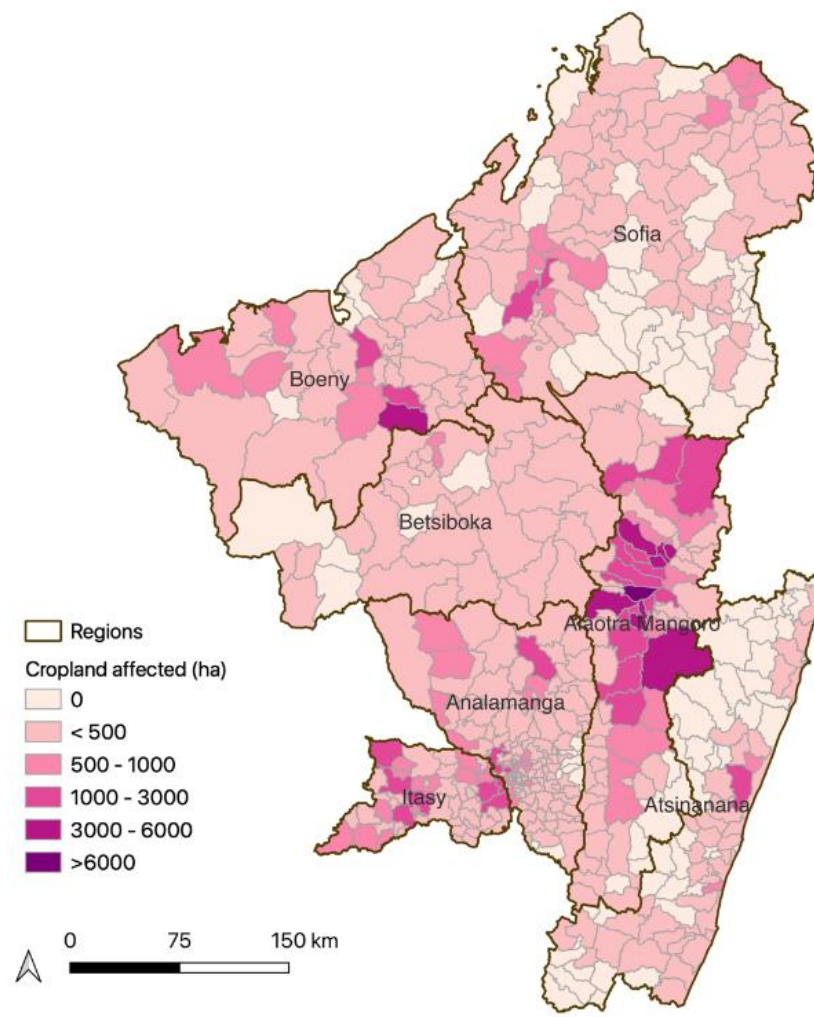
Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 24. Flood area extent by commune (admin level 3) in seven regions of Madagascar after Tropical Storm Ana (22 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 25. Flooded crop area extent in communes of seven regions of Madagascar (admin level 3) after Tropical Storm Ana (22 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Annex II – Statistical data of geospatial impact assessment in Malawi

Table 5. Total flooded land area, inundated cropland and population exposed to flood in two regions of Malawi at administrative levels 1, 2 and 3 after Tropical Storm Ana (22 January 2022)

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Central	Lilongwe City	Area 1	0	8.60	0	0	11 788	0	0
Central	Lilongwe City	Area 10	3.20	28.70	0	0	1 880	10	0.50
Central	Lilongwe City	Area 11	0.50	12.40	0	0	407	18	4.50
Central	Lilongwe City	Area 12	0.30	10.70	0	0	2 490	0	0
Central	Lilongwe City	Area 13	0	5.40	0	0	54 788	0	0
Central	Lilongwe City	Area 14	7.50	8	0	0	1 792	38	2.10
Central	Lilongwe City	Area 15	3.40	4.90	0	0	1 139	36	3.20
Central	Lilongwe City	Area 16	0.30	1.20	0	0	13	0	0
Central	Lilongwe City	Area 17	1.40	80.60	1.40	1.70	8	0	1.80
Central	Lilongwe City	Area 18	23.70	57.80	0.40	0.70	25 771	3 033	11.80
Central	Lilongwe City	Area 19	0	0.70	0	0	27	0	0
Central	Lilongwe City	Area 2	11.10	24.10	0.20	0.90	2 615	167	6.40
Central	Lilongwe City	Area 20	0	1.50	0	0	1 959	0	0
Central	Lilongwe City	Area 21	0.20	30.20	0	0.10	50 237	12	0
Central	Lilongwe City	Area 22	0	5.50	0	0	51 970	0	0
Central	Lilongwe City	Area 23	0	20.30	0	0	72 333	0	0
Central	Lilongwe City	Area 24	0	5.70	0	0	45 836	0	0
Central	Lilongwe City	Area 25	77.60	694.90	4.50	0.60	110 043	6 585	6
Central	Lilongwe City	Area 26	0.60	873.60	0.10	0	6 161	0	0
Central	Lilongwe City	Area 27	0	332.80	0	0	4 111	0	0
Central	Lilongwe City	Area 28	10.90	36.10	0.50	1.40	4 930	1 002	20.30

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Central	Lilongwe City	Area 29	7.90	101.60	0.60	0.60	1 489	23	1.50
Central	Lilongwe City	Area 3	59.60	70.80	1.90	2.70	5 136	531	10.30
Central	Lilongwe City	Area 30	0.90	163.30	0	0	4 751	11	0.20
Central	Lilongwe City	Area 31	0.10	1.20	0	0	995	0	0
Central	Lilongwe City	Area 32	7.40	20.90	0.20	0.80	923	44	4.80
Central	Lilongwe City	Area 33	3.50	45.20	0.10	0.20	24 234	5	0
Central	Lilongwe City	Area 34	0	74.20	0	0	4 602	0	0
Central	Lilongwe City	Area 35	0.30	502.20	0	0	8 275	0	0
Central	Lilongwe City	Area 36	7.40	120.30	0.50	0.40	171 959	3 696	2.10
Central	Lilongwe City	Area 37	3.30	51.60	0.50	1	2 124	15	0.70
Central	Lilongwe City	Area 38	0.70	411.20	0.20	0	53 220	24	0
Central	Lilongwe City	Area 39	0.80	182.20	0.10	0.10	5 252	6	0.10
Central	Lilongwe City	Area 4	20.70	13	0.10	0.90	1 964	103	5.20
Central	Lilongwe City	Area 40	0	0.20	0	0	18	0	0
Central	Lilongwe City	Area 41	0	98.90	0	0	5 672	0	0
Central	Lilongwe City	Area 42	0	3.90	0	0	161	0	0
Central	Lilongwe City	Area 43	4.20	509.30	1	0.20	3 715	10	0.30
Central	Lilongwe City	Area 44	1.90	1 827.30	0.10	0	49 481	7	0
Central	Lilongwe City	Area 45	54.40	485.50	3.50	0.70	26 229	5 339	20.40
Central	Lilongwe City	Area 46	23.50	315.40	1.30	0.40	5 469	291	5.30
Central	Lilongwe City	Area 47	69.40	350.10	2.90	0.80	22 216	1 694	7.60
Central	Lilongwe City	Area 48	18.30	15.90	0	0.10	1 887	681	36.10
Central	Lilongwe City	Area 49	125.40	170.90	2.10	1.20	70 061	8 869	12.70
Central	Lilongwe City	Area 5	1.10	14.60	0	0	2 675	0	0
Central	Lilongwe City	Area 50	61.30	79.10	1.10	1.40	105 085	9 694	9.20
Central	Lilongwe City	Area 51	2.70	81.90	0.10	0.20	5 755	259	4.50

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Central	Lilongwe City	Area 52	3.10	1 413.10	1.40	0.10	6 384	6	0.10
Central	Lilongwe City	Area 53	13	851.20	1.80	0.20	31 601	757	2.40
Central	Lilongwe City	Area 54	4	1 395.20	0.70	0	7 715	17	0.20
Central	Lilongwe City	Area 55	3.70	4 501.80	0.10	0	24 155	45	0.20
Central	Lilongwe City	Area 56	66.90	285.70	2.40	0.80	59 457	8 999	15.10
Central	Lilongwe City	Area 57	126.50	119.60	0.70	0.60	96 387	24 624	25.50
Central	Lilongwe City	Area 58	42.70	1 054.10	6.80	0.60	29 247	1 588	5.40
Central	Lilongwe City	Area 6	6.50	26.90	0.90	3.20	3 717	101	2.70
Central	Lilongwe City	Area 7	1.10	41.10	0.60	1.30	40 526	2	0
Central	Lilongwe City	Area 8	0.40	28.40	0	0	35 255	157	0.40
Central	Lilongwe City	Area 9	17	47.80	0.50	1	2 512	210	8.40
Central	Dedza	Dedza Boma	0	1 078.90	0	0	24 382	0	0
Central	Dowa	Dowa Boma	0	300.60	0	0	4 271	0	0
Central	Kasungu	Kasungu Boma	3.30	1 763.80	0.70	0	57 966	6	0
Central	Kasungu	Kasungu National Park	11.30	3 079.60	0	0	478	0	0
Central	Salima	Lake Malawi Natl. Park 0 Salima	1	0	0	0	0	0	0
Central	Mchinji	Mchinji Boma	0	114.20	0	0	28 677	0	0
Central	Nkhotakota	Nkhotakota Boma	0	245.70	0	0	29 502	0	0
Central	Nkhotakota	Nkhotakota Game Reserve	430.40	151.80	2.30	1.50	597	1	0.20
Central	Ntcheu	Ntcheu Boma	0.10	401.80	0	0	20 410	0	0
Central	Ntchisi	Ntchisi Boma	3	249.70	0.80	0.30	8 684	9	0.10
Central	Salima	Salima Town	0.10	617.30	0	0	37 710	0	0
Central	Dowa	SC Chakhaza	201.70	51 654.60	18.70	0	177 515	877	0.50
Central	Ntcheu	SC Champiti	0.20	5 205.20	0	0	21 831	0	0
Central	Dedza	SC Chauma	0	4 574.10	0	0	28 589	0	0
Central	Dedza	SC Chilikumwendo	3.80	19 502.30	1	0	88 067	16	0

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Central	Ntchisi	SC Chilooko	65.50	31 964.30	2.10	0	87 447	105	0.10
Central	Kasungu	SC Chilowamatambe	36	21 888.30	26.20	0.10	50 052	46	0.10
Central	Kasungu	SC Chisikwa	0	3 065.20	0	0	9 310	0	0
Central	Lilongwe	SC Chitekwele	9.60	9 779.40	0.10	0	63 970	75	0.10
Central	Mchinji	SC Dambe	707	20 427.50	16.90	0.10	90 103	1 127	1.30
Central	Ntcheu	SC Goodson Ganya	10.50	44 176.50	4	0	161 343	15	0
Central	Nkhotakota	SC Kafuzila	64.10	3 924.80	1.40	0	29 404	32	0.10
Central	Salima	SC Kambalame	0.20	3 709.70	0	0	26 379	0	0
Central	Salima	SC Kambwiri	30.60	11 051.70	13.90	0.10	46 453	230	0.50
Central	Dedza	SC Kamenya Gwaza	0.40	11 823.40	0.10	0	44 211	0	0
Central	Kasungu	SC Kawamba	305.90	24 804.70	3.10	0	42 648	637	1.50
Central	Dowa	SC Kayembe	26.30	33 601	0.20	0	131 126	40	0
Central	Kasungu	SC Lukwa	16.20	20 922.60	2.80	0	39 789	30	0.10
Central	Kasungu	SC M'nyanja	5.20	16 547.70	0	0	57 745	11	0
Central	Ntcheu	SC Makwangwala	14.70	33 751.20	9	0	119 408	14	0
Central	Mchinji	SC Mavwere	5.80	30 936.30	0	0	134 441	12	0
Central	Mchinji	SC Mduwa	404.90	32 293	11.80	0	118 090	676	0.60
Central	Dowa	SC Mkukula	7.70	22 380.20	3.10	0	119 734	17	0
Central	Nkhotakota	SC Mphonde	45.60	4 557	18.80	0.40	36 976	183	0.50
Central	Dowa	SC Mponela	23.70	12 634.30	1.30	0	80 058	1 240	1.50
Central	Salima	SC Msosa	2.50	854.40	2.20	0.30	7 428	0	0
Central	Lilongwe	SC Mtema	6.40	15 002.10	0.40	0	78 689	34	0
Central	Nkhotakota	SC Mwansambo	0.20	6 442.60	0	0	36 313	0	0
Central	Salima	SC Mwanza	0	5 505.50	0	0	40 837	0	0
Central	Lilongwe	SC Njewa	42.30	7 661.90	3.20	0	50 989	271	0.50
Central	Kasungu	SC Njombwa	56.80	18 409.70	3.10	0	68 082	293	0.40

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Central	Ntchisi	SC Nthondo	0.90	6 820.50	0.10	0	29 194	0	0
Central	Kasungu	SC Simlemba	1.30	15 549.80	0.10	0	40 240	2	0
Central	Lilongwe	SC Tsabango	17	5 298.60	15.70	0.30	75 886	194	0.30
Central	Lilongwe	TA Chadza	60.30	29 733.40	34.40	0.10	177 221	553	0.30
Central	Ntcheu	TA Chakhumbira	0.50	5 545.10	0	0	33 340	0	0
Central	Ntchisi	TA Chikho	0	7 875.90	0	0	42 136	0	0
Central	Lilongwe	TA Chimutu	13.70	26 211	9.70	0	139 431	38	0
Central	Lilongwe	TA Chiseka	142.50	69 407	13.40	0	336 395	321	0.10
Central	Lilongwe	TA Chitukula	1.60	9 669	1.40	0	40 438	9	0
Central	Dowa	TA Chiwere	0.80	20 042.90	0	0	117 995	2	0
Central	Kasungu	TA Chulu	1.40	33 567.70	0	0	90 564	2	0
Central	Dowa	TA Dzoole	4	28 508.60	0.90	0	117 724	9	0
Central	Lilongwe	TA Kabudula	36.60	39 631	2.90	0	175 566	123	0.10
Central	Dedza	TA Kachindamoto	162.60	34 000.80	79	0.20	137 976	351	0.30
Central	Lilongwe	TA Kalolo	18.10	45 047.10	3.80	0	208 345	82	0
Central	Kasungu	TA Kaluluma	5.80	19 904	0.40	0	72 467	14	0
Central	Lilongwe	TA Kalumba	8	3 618.20	4.90	0.10	37 036	63	0.20
Central	Lilongwe	TA Kalumbu	11.70	16 783.60	11.10	0.10	84 359	41	0
Central	Ntchisi	TA Kalumo	19.60	41 163.20	12.80	0	135 354	69	0.10
Central	Nkhotakota	TA Kanyenda	596.30	16 391.70	278.60	1.70	110 332	2 288	2.10
Central	Kasungu	TA Kaomba	2.60	18 059.20	0.10	0	58 180	1	0
Central	Kasungu	TA Kapelula	11.40	17 579.60	0.40	0	76 120	31	0
Central	Dedza	TA Kaphuka	7.40	40 916.60	4.20	0	186 696	34	0
Central	Salima	TA Karonga	99	19 792.70	6	0	80 320	171	0.20
Central	Ntchisi	TA Kasakula	1.50	4 137.60	0	0	23 060	0	0
Central	Dedza	TA Kasumbu	4.80	27 835.40	0	0	101 024	0	0

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Central	Salima	TA Khombedza	9	16 018.50	2.80	0	115 390	25	0
Central	Lilongwe	TA Khongoni	243.50	39 452.20	2.20	0	144 086	446	0.30
Central	Salima	TA Kuluunda	142	2 727.80	95.60	3.50	11 092	90	0.80
Central	Ntcheu	TA Kwataine	36.10	13 262.30	6	0	51 720	76	0.10
Central	Salima	TA Maganga	33.60	7 642.60	6	0.10	60 985	226	0.40
Central	Nkhotakota	TA Malenga Chanzi	159.20	10 596.10	6.50	0.10	69 419	44	0.10
Central	Lilongwe	TA Malili	47.90	25 150.20	7.90	0	148 494	741	0.50
Central	Ntcheu	TA Masasa	10.30	16 101.20	7.60	0	37 430	2	0
Central	Lilongwe	TA Mazengera	5.70	25 875.50	0.70	0	140 838	34	0
Central	Mchinji	TA Mkanda	718.60	36 644	6.60	0	135 280	1 219	0.90
Central	Mchinji	TA Mlonyeni	60.50	15 529.40	1.30	0	58 982	203	0.30
Central	Ntcheu	TA Mpando	39.60	21 733.60	2.30	0	77 844	24	0
Central	Dowa	TA Msakambewa	15.40	21 766.20	6.60	0	99 494	52	0.10
Central	Nkhotakota	TA Mwadzama	7.70	15 622.30	3.20	0	110 613	17	0
Central	Kasungu	TA Mwase	9.80	11 952.50	0.90	0	27 331	3	0
Central	Salima	TA Ndindi	3.90	9 657.40	1	0	52 110	25	0
Central	Ntcheu	TA Njolomole	4.40	14 873	0.20	0	66 661	6	0
Central	Salima	TA Pemba	72.20	6 544.80	30	0.50	28 031	426	1.50
Central	Dedza	TA Pemba	37.90	47 055.90	6.40	0	191 229	77	0
Central	Ntcheu	TA Phambala	5.40	18 142.30	0.40	0	68 302	3	0
Central	Kasungu	TA Santhe	931.40	39 918.30	33	0.10	116 444	974	0.80
Central	Dedza	TA Tambala	1.30	18 435	0	0	81 819	0	0
Central	Kasungu	TA Wimbe	106.40	51 887.40	63.60	0.10	103 900	170	0.20
Central	Mchinji	TA Zulu	22.60	28 177.80	0	0	149 529	59	0
Southern	Balaka	Balaka Town	0.11	306.02	0	0	34 592	0	0
Southern	Blantyre City	Bangwe Ward	1.05	249.01	0	0	31 548	238	0.80

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Southern	Blantyre City	Blantyre Central Ward	0.74	31.90	0	0	7 707	10	0.10
Southern	Blantyre City	Blantyre East Ward	0	14.69	0	0	1 081	0	0
Southern	Blantyre City	Blantyre West Ward	0.09	53.79	0	0	25 953	0	0
Southern	Zomba City	Chambo Ward	5.63	11.42	0.20	1.80	3 283	121	3.70
Southern	Blantyre City	Chichiri Ward	11.19	87.47	0.06	0.10	4 510	60	1.30
Southern	Blantyre City	Chigumula Ward	4.53	885.43	0.31	0	37 250	310	0.80
Southern	Zomba City	Chikamveka North Ward	6.30	110.34	0.48	0.40	14 300	443	3.10
Southern	Zomba City	Chikamveka Ward	17.04	66.50	0.27	0.40	3 167	134	4.20
Southern	Chikwawa	Chikwawa Boma	110.37	94.28	27.85	29.50	4 126	620	15
Southern	Blantyre City	Chilomoni Ward	0.11	12.55	0	0	68 072	0	0
Southern	Chiradzulu	Chiradzulu Boma	0.32	192.42	0	0	1 934	0	0
Southern	Zomba City	Chirunga East Ward	6.10	79.21	0.02	0	19 130	1 543	8.10
Southern	Zomba City	Chirunga Ward	13.72	51.75	0.19	0.40	3 165	140	4.40
Southern	Zomba	Lake Chilwa	21.74	6.02	0.35	5.80	114	7	6.10
Southern	Phalombe	Lake Chilwa	0	0	0	0	0	0	0
Southern	Machinga	Lake Chiuta	219.93	14.20	0.42	3	21	1	4.80
Southern	Mangochi	Lake Malawi Natl. Park 0 Mangochi	15.76	37.73	0	0	1 593	0	0
Southern	Mangochi	Lake Malombe	120.94	189.16	2.54	1.30	4 518	362	8
Southern	Chikwawa	Lengwe National Park	10.81	1 087.19	3.72	0.30	2 129	5	0.20
Southern	Zomba City	Likangala Central Ward	10.48	47.67	0.13	0.30	25 020	1 640	6.60
Southern	Zomba City	Likangala South Ward	1.69	117.98	0.06	0.10	3 247	12	0.40
Southern	Zomba City	Likangala Ward	6	1.49	0.01	0.70	12 989	1 092	8.40
Southern	Blantyre City	Likhubula Ward	0	253.51	0	0	66 020	0	0
Southern	Blantyre City	Limbe Central Ward	7.94	52.59	0.01	0	3 511	114	3.20
Southern	Blantyre City	Limbe East Ward	18.29	126.69	0.15	0.10	41 021	324	0.80
Southern	Blantyre City	Limbe West Ward	4.17	105.28	0.03	0	14 094	240	1.70

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Southern	Machinga	Liwonde National Park	1 985.78	1 482.88	20.31	1.40	12 519	1 650	13.20
Southern	Machinga	Liwonde Town	116.90	1 265.20	7.61	0.60	34 479	754	2.20
Southern	Thyolo	Luchenza Town	23.56	591.60	3.30	0.60	11 634	340	2.90
Southern	Machinga	Machinga Boma	0.54	106.92	0	0	1 146	0	0
Southern	Chikwawa	Majete Game Reserve 0 Chikwawa	13.30	66.51	0.04	0.10	337	2	0.60
Southern	Neno	Majete Game Reserve 0 Neno	0	43.52	0	0	511	0	0
Southern	Mangochi	Mangochi Town	13.59	27.96	2.23	8	56 725	195	0.30
Southern	Blantyre City	Mapanga Ward	13.68	1 070.11	0.97	0.10	43 673	530	1.20
Southern	Zomba City	Masongola Ward	18.63	0.77	0.02	2.60	388	34	8.80
Southern	Zomba City	Mbedza Ward	4.61	119.72	0.31	0.30	4 109	61	1.50
Southern	Blantyre City	Michiru Ward	0.30	557.68	0	0	72 613	1	0
Southern	Blantyre City	Misesa Ward	1.10	136.77	0	0	39 829	160	0.40
Southern	Mangochi	Monkey Bay Urban	2.49	311.34	0	0	12 088	27	0.20
Southern	Blantyre City	Msamba Ward	0.34	347.87	0	0	6 629	23	0.30
Southern	Zomba City	Mtiya Ward	6.84	95.80	0.06	0.10	4 824	30	0.60
Southern	Mulanje	Mulanje Boma	0.43	229.68	0.01	0	12 068	0	0
Southern	Mulanje	Mulanje Mountain Reserve	42.17	2 434.38	0.91	0	4 471	0	0
Southern	Nsanje	Mwabvi Game Reserve	944.69	537.56	0	0	9 383	110	1.20
Southern	Mwanza	Mwanza Boma	0.14	370.08	0	0	22 380	0	0
Southern	Blantyre City	Mzedi Ward	5.85	1 026.78	0.03	0	18 844	135	0.70
Southern	Blantyre City	Namiyango Ward	2.94	74.31	0.04	0.10	29 671	310	1
Southern	Blantyre City	Nancholi Ward	0.30	87.56	0	0	28 207	0	0
Southern	Blantyre City	Ndirande North Ward	0	613.35	0	0	37 522	0	0
Southern	Blantyre City	Ndirande South Ward	3.72	198.49	0	0	86 956	0	0
Southern	Blantyre City	Ndirande West Ward	0.23	55.23	0	0	15 234	39	0.30
Southern	Neno	Neno Boma	0	45.18	0	0	2 062	0	0

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Southern	Blantyre City	Nkolokoti Ward	3.59	82.86	0	0	44 726	1 275	2.90
Southern	Nsanje	Nsanje Boma	103.85	394.80	62.57	15.80	23 917	840	3.50
Southern	Blantyre City	Nyambadwe Ward	0	53.36	0	0	12 001	0	0
Southern	Phalombe	Phalombe Boma	0	181.48	0	0	7 291	0	0
Southern	Zomba City	Sadzi Ward	4.01	22.59	0.04	0.20	13 600	499	3.70
Southern	Machinga	SC Chamba	29.89	4 910.66	1.40	0	30 145	26	0.10
Southern	Machinga	SC Chikweo	185.45	19 153.37	0.67	0	87 124	35	0
Southern	Machinga	SC Chiwalo	11.25	3 862.21	0.21	0	36 479	99	0.30
Southern	Mangochi	SC Chowe	421.45	22 434.51	33.81	0.20	153 197	432	0.30
Southern	Mulanje	SC Juma	45.18	26 873.48	24.91	0.10	111 049	326	0.30
Southern	Thyolo	SC Kwethemule	47.28	3 765.79	0.09	0	68 532	135	0.20
Southern	Mulanje	SC Laston Njema	8.77	5 718.75	0.50	0	94 313	44	0
Southern	Nsanje	SC Makoka	20.39	381.06	0.39	0.10	11 913	24	0.20
Southern	Thyolo	SC Mbawela	151.53	3 500.34	13.11	0.40	61 186	714	1.20
Southern	Nsanje	SC Mbenje	5 161.48	6 229.55	545.56	8.80	66 074	10 606	16.10
Southern	Zomba	SC Mbiza	28.18	36 623.02	1.36	0	188 823	274	0.10
Southern	Mangochi	SC Mbwana Nyambi	537.02	23 478.40	4.58	0	117 339	168	0.10
Southern	Zomba	SC Mkumbira	35.91	303.08	0	0	2 811	37	1.30
Southern	Machinga	SC Mlomba	2 392.87	10 432.22	21.57	0.20	68 836	1 053	1.50
Southern	Thyolo	SC Mphuka	40.68	2 849.05	0.01	0	82 674	157	0.20
Southern	Machinga	SC Mposa	1 816.59	4 297.88	151.66	3.50	30 488	2 183	7.20
Southern	Mangochi	SC Namabvi	18.22	6 208.54	1.12	0	38 318	103	0.30
Southern	Machinga	SC Ngokwe	44.94	6 631.18	0.51	0	35 905	21	0.10
Southern	Machinga	SC Sitola	332.18	10 458	74.57	0.70	52 322	1 886	3.60
Southern	Thyolo	SC Thukuta	83.50	1 504.70	11.57	0.80	23 015	241	1
Southern	Blantyre City	Soche East Ward	0	47.13	0	0	13 059	0	0

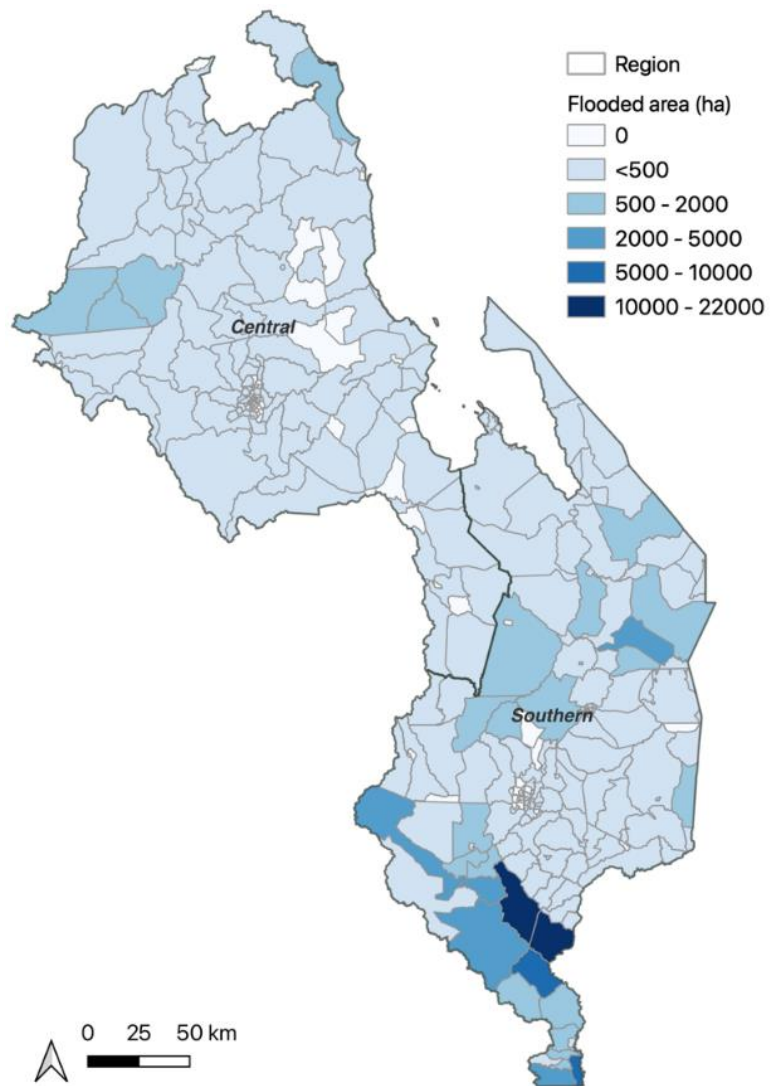
Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Southern	Blantyre City	Soche West Ward	0	30.54	0	0	75 102	0	0
Southern	Blantyre City	South Lunzu Ward	2.56	513.87	0.08	0	60 193	280	0.50
Southern	Thyolo	TA Bvumbwe	33.87	11 146.78	1.80	0	126 211	103	0.10
Southern	Thyolo	TA Changata	27.14	3 665.18	2.48	0.10	55 407	89	0.20
Southern	Chikwawa	TA Chapananga	2 010.47	16 607	723.49	4.40	133 405	11 886	8.90
Southern	Blantyre	TA Chigaru	781.77	14 840.52	74.63	0.50	54 453	1 826	3.40
Southern	Zomba	TA Chikowi	17.18	13 026	1.05	0	80 124	196	0.20
Southern	Mulanje	TA Chikumbu	19.89	12 239.46	4.95	0	91 842	72	0.10
Southern	Thyolo	TA Chimaliro	85.45	21 679.40	22.83	0.10	169 182	552	0.30
Southern	Nsanje	TA Chimombo	695.59	1 364.87	427.84	31.30	13 122	746	5.70
Southern	Mangochi	TA Chimwala	96.27	32 996.60	20.68	0.10	154 584	502	0.30
Southern	Chiradzulu	TA Chitera	12.60	3 706.87	0.79	0	23 053	49	0.20
Southern	Phalombe	TA Chiwalo	186.88	7 702.63	3.99	0.10	47 350	909	1.90
Southern	Neno	TA Dambe	12.40	3 670.20	0.40	0	34 913	14	0
Southern	Mangochi	TA Jalasi	188.36	18 153.28	1.47	0	103 709	91	0.10
Southern	Chiradzulu	TA Kadewere	3.89	17 868.79	0.40	0	104 720	14	0
Southern	Balaka	TA Kalembo	404.27	38 920.90	19.08	0	180 078	501	0.30
Southern	Mwanza	TA Kanduku	7.81	6 090.09	0.19	0	61 652	9	0
Southern	Blantyre	TA Kapeni	5.92	14 568.87	0.50	0	105 344	53	0.10
Southern	Thyolo	TA Kapichi	115.61	7 702.79	12.31	0.20	70 223	394	0.60
Southern	Chikwawa	TA Kasisi	1 130.48	3 370.48	399.93	11.90	38 449	4 005	10.40
Southern	Mangochi	TA Katuli	8.54	17 271.69	1.19	0	58 200	13	0
Southern	Chikwawa	TA Katunga	839.13	3 743.20	348.55	9.30	40 161	4 956	12.30
Southern	Machinga	TA Kawinga	542.30	37 537.43	29.43	0.10	175 290	211	0.10
Southern	Blantyre	TA Kuntaja	6.36	14 455.64	1.52	0	85 916	16	0
Southern	Blantyre	TA Kunthembwe	105.84	7 428.34	4.17	0.10	47 479	170	0.40

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Southern	Zomba	TA Kuntumanji	431.37	17 751.49	90.41	0.50	94 287	525	0.60
Southern	Chiradzulu	TA Likoswe	3.91	8 871.12	0.15	0	74 147	27	0
Southern	Machinga	TA Liwonde	58.83	27 214.84	9.08	0	114 701	136	0.10
Southern	Blantyre	TA Lundu	0.75	7 200	0.21	0	36 157	0	0
Southern	Chikwawa	TA Lundu	2 117.92	2 818.59	440.59	15.60	50 427	2 497	5
Southern	Mulanje	TA Mabuka	116.28	19 740.62	18.62	0.10	195 093	490	0.30
Southern	Blantyre	TA Machinjili	3.34	4 916.37	0.21	0	26 392	11	0
Southern	Mangochi	TA Makanjila	46.31	12 700.82	7.43	0.10	84 983	61	0.10
Southern	Blantyre	TA Makata	0.65	3 803.10	0	0	19 635	3	0
Southern	Chikwawa	TA Makhwira	21 585.78	8 900.53	3 312.09	37.20	73 251	8 989	12.30
Southern	Zomba	TA Malemia	108.57	9 542.37	2.26	0	74 438	76	0.10
Southern	Nsanje	TA Malemia	864.28	2 007.93	489.91	24.40	19 776	1 502	7.60
Southern	Chikwawa	TA Maseya	1 250.46	3 285.84	417.19	12.70	41 703	5 263	12.60
Southern	Phalombe	TA Mkhumba	124.63	57 791.91	14.32	0	314 656	182	0.10
Southern	Neno	TA Mlauli	22.93	3 422.47	0.58	0	41 168	56	0.10
Southern	Nsanje	TA Mlolo	12 992.88	6 616.35	2 044.83	30.90	76 530	13 743	18
Southern	Zomba	TA Mlumbe	1 940.04	37 229.32	290.04	0.80	162 706	7 004	4.30
Southern	Chiradzulu	TA Mpama	19.56	10 688.42	2.26	0	71 902	114	0.20
Southern	Mangochi	TA Mponda	225.05	19 858.87	13.86	0.10	153 265	409	0.30
Southern	Zomba	TA Mwambo	104.66	28 771.26	21.25	0.10	156 279	165	0.10
Southern	Mangochi	TA Nankumba	180.19	37 338.54	74.93	0.20	151 681	151	0.10
Southern	Phalombe	TA Nazombe	579.03	18 614.09	83.12	0.40	64 849	1 338	2.10
Southern	Chiradzulu	TA Nchema	1.95	7 988.84	0.38	0	45 893	8	0
Southern	Thyolo	TA Nchilamwela	202.34	6 514.07	6.86	0.10	66 157	519	0.80
Southern	Nsanje	TA Ndamera	3 142.92	3 641.19	916.01	25.20	33 799	4 385	13
Southern	Chikwawa	TA Ngabu	4 733.45	26 719.91	1 289.26	4.80	206 051	4 240	2.10

Region (ADM1)	District (ADM2)	Traditional authority area (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Southern	Nsanje	TA Ngabu	1 373.07	1 650.14	780.95	47.30	15 890	1 450	9.10
Southern	Neno	TA Ngozi	4	3 359.89	0.06	0	26 619	2	0
Southern	Chiradzulu	TA Nkalo	8.34	10 718.48	1.30	0	55 872	25	0
Southern	Mulanje	TA Nkanda	80.85	28 871.75	47.87	0.20	126 839	247	0.20
Southern	Thyolo	TA Nsabwe	90.69	2 852.11	12.63	0.40	48 115	392	0.80
Southern	Balaka	TA Nsamala	813.87	68 704.05	334.27	0.50	218 946	1 915	0.90
Southern	Mwanza	TA Nthache	3.82	6 859.52	0.29	0	65 077	6	0
Southern	Mulanje	TA Nthiramanja	62.31	9 486.40	12.73	0.10	55 685	302	0.50
Southern	Nsanje	TA Nyachikadza	5 928.99	1 756.58	1 567.94	89.30	3 102	2 563	82.60
Southern	Machinga	TA Nyambi	42.28	14 819.77	5.10	0	67 176	48	0.10
Southern	Blantyre	TA Somba	36.55	3 523.23	0.16	0	82 914	64	0.10
Southern	Neno	TA Symon	702.46	7 595.97	136.91	1.80	64 604	2 067	3.20
Southern	Nsanje	TA Tengani	1 539.11	5 576.40	621	11.10	49 904	6 163	12.30
Southern	Thyolo	TA Thomas	15.61	606.37	0	0	45 833	51	0.10
Southern	Thyolo	Thyolo Boma	1.95	89.51	0.20	0.20	6 948	38	0.50
Southern	Zomba City	Zakazaka Ward	7.59	13.68	0.05	0.40	3 241	318	9.80
Southern	Zomba City	Zomba Central Ward	2.77	2.47	0.08	3.20	1 551	53	3.40

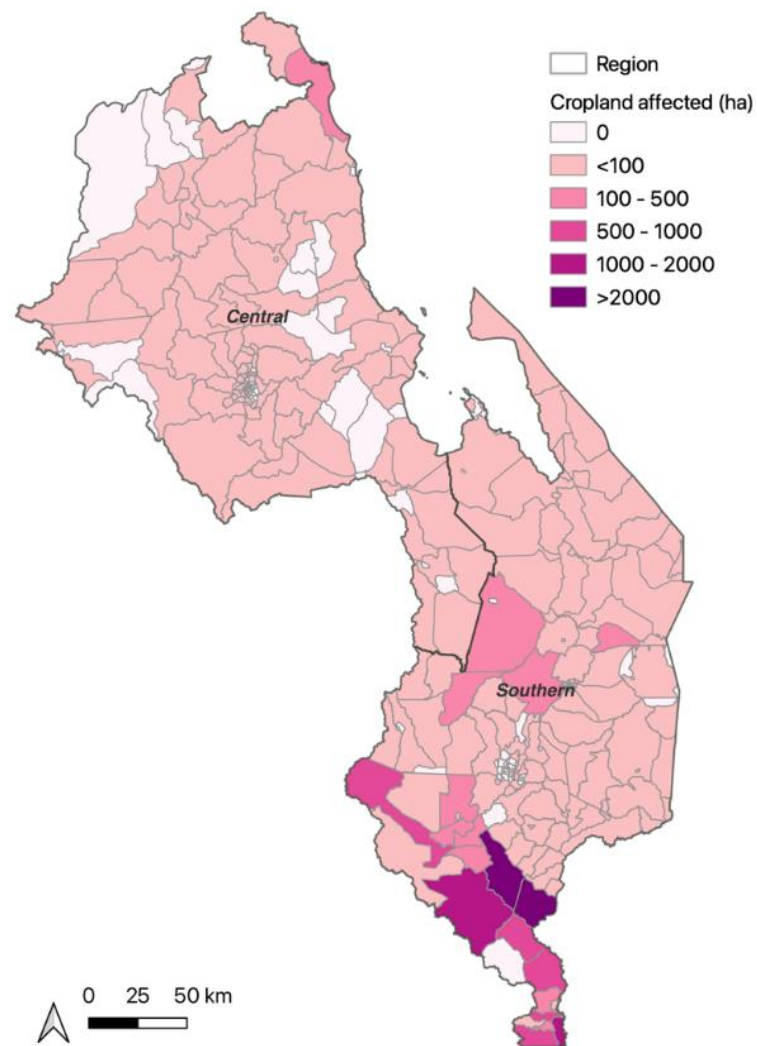
Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 26. Extent of flooding in the two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 27. Flooded crop area extent at the traditional authority level in the two regions of Malawi (admin level 2) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Annex III – Statistical data of geospatial impact assessment in Mozambique

Table 6. Total flooded land area, inundated cropland and population exposed to flood in five provinces of Mozambique at administrative levels 1, 2 and after Tropical Storm Ana (22 January 2022)

Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Zambezia	Gile	Alto Ligonha	420.80	6 159.90	38.80	0.63	74 451	126	0.17
Zambezia	Alto Molocue	Alto Molocue	530.20	15 066.60	11.70	0.08	169 497	237	0.14
Manica	Gondola	Amatongas	47.20	6 588	0.50	0.01	59 561	27	0.05
Zambezia	Mocubela	Bajone	2 906.80	2 661.10	69.10	2.60	94 001	1 419	1.51
Manica	Tambara	Bazua	0.90	1 519.80	0	0	14 161	0	0
Sofala	Buzi	Buzi	729.40	12 722.30	83.10	0.65	105 973	277	0.26
Manica	Gondola	Cafumpe	90.40	10 945.10	4.90	0.04	62 259	24	0.04
Sofala	Caia	Caia	7 459.40	17 605.80	2 087.30	11.86	90 054	12 289	13.65
Zambezia	Mopeia	Campo	2 334.90	4 767.80	80.40	1.69	69 488	504	0.73
Sofala	Maringue	Canxixe	35.50	7 244.50	0	0	27 210	5	0.02
Manica	Barue	Catandica	272.50	47 463.20	18.70	0.04	224 176	182	0.08
Tete	Mutarara	Charre	19 290.50	8 811.40	1 729.90	19.63	40 437	9 471	23.42
Sofala	Chemba	Chemba	639.40	3 857.80	38.20	0.99	33 426	351	1.05
Sofala	Chibabava	Chibabava	2.20	3 972.30	0	0	13 000	0	0
Tete	Macanga	Chidzolomondo	286.70	11 674.80	0	0	87 387	120	0.14
Tete	Chifunde	Chifunde	229.30	2 348.70	27.80	1.18	25 960	23	0.09
Zambezia	Chinde	Chinde	1 631.70	1 886.30	21.20	1.12	45 546	1 663	3.65
Tete	Cahora Bassa	Chintholo	883.20	11 236.60	15.10	0.13	8 587	15	0.17
Tete	Magoe	Chinthopo	1 177.10	12 369.80	103.30	0.84	42 461	183	0.43

Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Tete	Changara	Chipembere	4 342.10	10 383.40	143.20	1.38	91 514	460	0.50
Tete	Maravia	Chipera	392.10	679.30	38.70	5.70	17 059	30	0.18
Tete	Maravia	Chiputu	168.50	3 301.60	25.50	0.77	15 210	7	0.05
Sofala	Chemba	Chiramba	5.70	3 982.60	0.20	0.01	27 047	1	0
Zambezia	Morrumbala	Chire	21 617.80	26 784.20	3 887.80	14.52	132 227	20 085	15.19
Tete	Cahora Bassa	Chitima	144.30	6 914.90	0	0	97 443	36	0.04
Manica	Machaze	Chitobe	505.30	15 647.90	0.30	0	116 505	42	0.04
Manica	Mossurize	Chiurairue	13.20	30 677.90	1.30	0	154 924	13	0.01
Manica	Barue	Choa	139	4 999.10	48.50	0.97	9 713	79	0.81
Sofala	Marromeu	Chupanga	7 306.10	10 529.10	368.10	3.50	93 644	4 205	4.49
Sofala	Cidade Da Beira	Cidade Da Beira	292.40	1 728.80	16.10	0.93	479 984	2 178	0.45
Manica	Cidade De Chimoio	Cidade De Chimoio	8.60	4 848.60	1.70	0.04	370 535	81	0.02
Zambezia	Cidade De Quelimane	Cidade De Quelimane	1 575.60	2 089.60	398.40	19.07	274 481	56 999	20.77
Tete	Cidade De Tete	Cidade De Tete	995.10	652.10	46.30	7.10	282 041	6 622	2.35
Manica	Mossurize	Dacata	60.80	6 037.80	0.20	0	176 551	60	0.03
Zambezia	Derre	Derre	575.70	25 780.40	28.40	0.11	98 535	118	0.12
Sofala	Machanga	Divinhe	1 397.10	983.10	1.40	0.14	16 622	175	1.05
Tete	Doa	Doa	5 130.10	11 180.30	301.90	2.70	260 799	3 007	1.15
Manica	Sussundenga	Dombe	1 990	7 854.70	290.70	3.70	74 201	609	0.82
Tete	Angonia	Domue	53.40	127 948	4.90	0	218 978	46	0.02
Sofala	Dondo	Dondo	134.60	1 639	15.70	0.96	118 601	128	0.11
Manica	Mossurize	Espungabera	5.50	5 367.80	0	0	29 970	0	0
Sofala	Buzi	Estaquinha	228.20	2 352.60	15.40	0.65	45 310	116	0.26
Tete	Maravia	Fingoe	87.20	13 028.70	0.40	0	32 817	2	0.01
Tete	Macanga	Furancungo	229.70	92 951.90	2.50	0	279 290	63	0.02
Sofala	Muanza	Galinha	430.20	1 401.40	3	0.21	36 540	17	0.05

Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Zambezia	Gile	Gile	325.10	10 593	23.50	0.22	192 950	221	0.11
Manica	Gondola	Gondola	0.20	1 108.90	0	0	45 885	0	0
Zambezia	Inhassunge	Gonhane	780.50	4 334.40	89.50	2.06	27 865	954	3.42
Sofala	Chibabava	Goonda	113.50	6 763.80	2.80	0.04	42 551	38	0.09
Sofala	Gorongosa	Gorongosa	10 150	19 687	3 815.80	19.38	102 379	2 249	2.20
Manica	Guro	Guro	3.20	3 151	0	0	46 023	0	0
Zambezia	Gurue	Gurue	123.30	34 210.10	29.30	0.09	248 408	150	0.06
Zambezia	Ile	Ile	717.90	28 355.80	64.50	0.23	215 800	605	0.28
Manica	Gondola	Inchope	217.90	3 118.90	1.80	0.06	99 613	150	0.15
Sofala	Cheringoma	Inhaminga	2 929.60	4 160.60	34.20	0.82	51 830	195	0.38
Sofala	Cheringoma	Inhamitanga	2 622.60	3 213.50	1.40	0.04	15 333	239	1.56
Tete	Mutarara	Inhangoma	24 381.40	28 249.50	4 428.50	15.68	101 469	31 232	30.78
Zambezia	Inhassunge	Inhassunge	3 507.60	8 202	544.30	6.64	66 237	5 432	8.20
Tete	Moatize	Kambulatsisi	209.30	4 668.70	21.90	0.47	79 027	101	0.13
Tete	Chiuta	Kazula	1 274.30	2 489.50	191.70	7.70	38 671	629	1.63
Zambezia	Gurue	Lioma	220.80	80 474.50	70.90	0.09	183 208	125	0.07
Zambezia	Luabo	Luabo	3 062.90	6 166.70	134.20	2.18	31 967	2 455	7.68
Tete	Changara	Luenha	181.90	5 712.80	7.70	0.13	49 268	42	0.09
Zambezia	Lugela	Lugela	32.90	9 486.30	2.60	0.03	58 070	21	0.04
Manica	Macate	Macate	282.70	12 212.10	2.70	0.02	72 832	97	0.13
Sofala	Machanga	Machanga	1 583.30	3 369	47.80	1.42	45 846	165	0.36
Manica	Manica	Machipanda	83.10	5 205.60	23.50	0.45	54 665	67	0.12
Manica	Macossa	Macossa	8.60	3 866.70	0	0	23 936	1	0
Zambezia	Namacurra	Macuze	12 582	4 578.80	2 116.40	46.22	86 660	14 042	16.20
Sofala	Dondo	Mafambisse	5 580.90	2 660.60	458.90	17.25	64 370	1 660	2.58
Zambezia	Maganja Da Costa	Maganja	23 440.70	2 479.60	614.30	24.77	124 648	14 433	11.58

Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Zambezia	Milange	Majaua	218.70	49 945.70	46.20	0.09	86 514	287	0.33
Tete	Maravia	Malowera	113.50	86 539	52.60	0.06	92 204	25	0.03
Manica	Guro	Mandie	759	2 590.10	175.60	6.78	31 848	125	0.39
Manica	Manica	Manica	24	1 861.60	6.90	0.37	50 630	147	0.29
Tete	Chiuta	Manje	1 406.10	12 819.30	9.90	0.08	99 135	436	0.44
Zambezia	Maquival	Maquival	1 268.70	5 357.40	379.20	7.08	112 386	2 117	1.88
Tete	Marara	Marara	931.10	4 747.10	4.50	0.09	88 182	280	0.32
Sofala	Maringue	Maringue	202	10 494.60	0.30	0	57 390	45	0.08
Sofala	Marromeu	Marromeu	1 625.20	32 455.60	125.90	0.39	136 106	3 993	2.93
Manica	Vanduzi	Matsinho	67.80	18 893.70	3.40	0.02	62 890	16	0.03
Manica	Manica	Mavonde	110.80	9 738.80	11	0.11	62 484	95	0.15
Zambezia	Morrumbala	Megaza	10 548.60	9 642.40	1 373.40	14.24	62 635	5 065	8.09
Zambezia	Gurue	Mepuagiua	112.70	27 720.60	7.70	0.03	105 676	99	0.09
Manica	Manica	Messica	37.40	20 333.30	15.40	0.08	70 103	25	0.04
Zambezia	Chinde	Micaune	1 394.70	1 928.30	32.10	1.66	36 818	604	1.64
Zambezia	Milange	Milange	727.10	185 064.10	302.40	0.16	509 387	687	0.13
Tete	Moatize	Moatize	2 837.70	2 691	337.90	12.56	128 718	1 368	1.06
Zambezia	Mocuba	Mocuba	3 497.70	39 175.60	429.20	1.10	246 489	12 829	5.20
Zambezia	Mocubela	Mocubela	347.50	2 227.80	27.80	1.25	52 924	88	0.17
Zambezia	Molumbo	Molumbo	3 591.50	189 671.50	1 390.20	0.73	111 934	956	0.85
Zambezia	Milange	Mongue	200.20	51 770.20	26.60	0.05	182 631	253	0.14
Zambezia	Mopeia	Mopeia	13 022.20	17 756.60	2 222	12.51	151 660	9 184	6.06
Zambezia	Morrumbala	Morrumbala	610.40	48 503.70	113.20	0.23	324 280	568	0.18
Tete	Magoé	Mphende	23.30	2 151.90	0	0	22 675	1	0
Zambezia	Lugela	Muabanama	311.30	13 699	88.90	0.65	83 839	163	0.19
Tete	Chifunde	Mualadze	71.90	42 493.30	0.50	0	195 257	29	0.01

Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Zambezia	Pebane	Mualama	2 985	2 152.90	273.30	12.69	101 527	999	0.98
Sofala	Muanza	Muanza	5 997.10	1 341.30	1 035.10	77.17	16 694	769	4.61
Zambezia	Mocuba	Mugeba	272.80	25 758.10	33	0.13	142 467	176	0.12
Tete	Magoe	Mukumbura	328.80	14 269.90	60.20	0.42	90 655	108	0.12
Zambezia	Mulevala	Mulevala	302.10	4 641.30	5.10	0.11	126 956	196	0.15
Sofala	Chemba	Mulima	129.50	7 365.30	2.30	0.03	32 087	30	0.09
Manica	Guro	Mungari	4.90	4 056.50	0.30	0.01	27 189	2	0.01
Zambezia	Lugela	Munhamade	1 510.40	21 243.50	182.60	0.86	23 097	1 661	7.19
Manica	Sussundenga	Muoha	19.20	17 681.70	2.40	0.01	39 602	5	0.01
Sofala	Caia	MurraÁşa	3 723.20	10 333	1 092	10.57	37 746	4 337	11.49
Sofala	Chibabava	Muxungue	172.60	3 396.20	0.20	0.01	109 277	60	0.05
Tete	Zumbu	Muze	1 073.50	46 121.80	299.80	0.65	67 680	299	0.44
Zambezia	Pebane	Naburi	3 457.90	3 872.60	308.40	7.96	101 574	1 955	1.92
Zambezia	Namacurra	Namacurra	8 320.70	9 599.90	686.20	7.15	150 721	9 622	6.38
Zambezia	Mocuba	Namanjavira	638.80	21 467.30	118.40	0.55	90 894	132	0.15
Zambezia	Namarroi	Namarroi	236.40	25 159.30	29	0.12	123 172	270	0.22
Zambezia	Maganja Da Costa	Nante	12 873.70	4 804	2 423.30	50.44	93 861	10 041	10.70
Zambezia	Alto Molocue	Nauela	624	47 357.90	81.50	0.17	300 706	833	0.28
Manica	Macossa	Nguawala	61.70	2 231.40	2	0.09	4 055	4	0.10
Manica	Tambara	Nhacafula	124.30	1 474.60	11.10	0.75	9 985	10	0.10
Manica	Tambara	Nhacolo	567.20	4 247.60	87.90	2.07	35 978	152	0.42
Sofala	Gorongosa	Nhamadze	115	6 839.30	3.80	0.06	56 150	35	0.06
Manica	Macossa	Nhamagua	2.10	7 810.70	0	0	40 848	0	0
Manica	Guro	Nhamassonge	6.40	2 662.70	0	0	14 069	0	0
Sofala	Nhamatanda	Nhamatanda	2 013.70	32 836.90	186.60	0.57	272 784	2 183	0.80
Tete	Mutarara	Nhamayabue	2 042.30	4 497.10	74.50	1.66	61 781	1 026	1.66

Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Manica	Barue	Nhampassa	21.50	31 264.60	4.30	0.01	60 035	22	0.04
Zambezia	Nicoadala	Nicoadala	10 594.60	25 019.80	2 995.30	11.97	186 781	11 572	6.20
Tete	Chifunde	Nsadzu	47.10	22 194.70	1.10	0	46 471	6	0.01
Tete	Tsangano	Ntengo0Wa0Mbalame	123.30	89 519.20	34.30	0.04	229 220	154	0.07
Zambezia	Pebane	Pebane	150.60	1 633.10	6.30	0.39	86 646	91	0.11
Zambezia	Namarroi	Regone	253.70	26 465.60	58.50	0.22	68 762	87	0.13
Manica	Sussundenga	Rotanda	18.90	15 557.20	1.50	0.01	13 928	1	0.01
Manica	Machaze	Save	516.10	4 223.10	3.60	0.09	38 469	11	0.03
Sofala	Caia	Sena	796.10	10 484	204.60	1.95	52 353	887	1.69
Zambezia	Ile	Socone	249.60	15 340	6.60	0.04	78 333	190	0.24
Sofala	Buzi	Sofala	682.50	2 149.70	10.10	0.47	33 813	133	0.39
Tete	Cahora Bassa	Songo	227.30	1 520.90	0	0	50 777	72	0.14
Sofala	Maringue	Subwe	1 705.10	9 753.30	2.20	0.02	28 018	172	0.61
Manica	Sussundenga	Sussundenga	76.20	14 481.60	5.70	0.04	76 970	61	0.08
Zambezia	Lugela	Tacuane	833.20	3 575.90	193.60	5.41	29 055	146	0.50
Sofala	Nhamatanda	Tica	14 977.30	15 412.10	925.50	6.01	94 166	8 408	8.93
Tete	Tsangano	Tsangano	340.10	48 761.40	26.60	0.05	95 105	80	0.08
Tete	Angonia	Ulongue	10.90	90 024.20	4.20	0	174 476	46	0.03
Manica	Vanduzi	Vanduzi	42.20	40 986.70	1.60	0	105 745	25	0.02
Sofala	Gorongosa	Vanduzi	1 030.10	6 008.80	51.30	0.85	46 461	156	0.34
Tete	Zumbu	Zambue	636.20	13 248.80	35.90	0.27	25 687	42	0.16
Manica	Macate	Zembe	78.10	10 954.60	13.50	0.12	25 454	41	0.16
Tete	Moatize	Zobue	1 262.90	34 463.10	251.80	0.73	376 869	1 727	0.46
Tete	Zumbu	Zumbu	3 606.70	3 398.30	9.10	0.27	28 578	114	0.40
Nampula	Angoche	Angoche	4 834.30	661.20	0.60	0.09	69 225	8 439	12.19
Nampula	Angoche	Aube	7 368.20	727.70	157.70	21.67	150 786	21 814	14.47

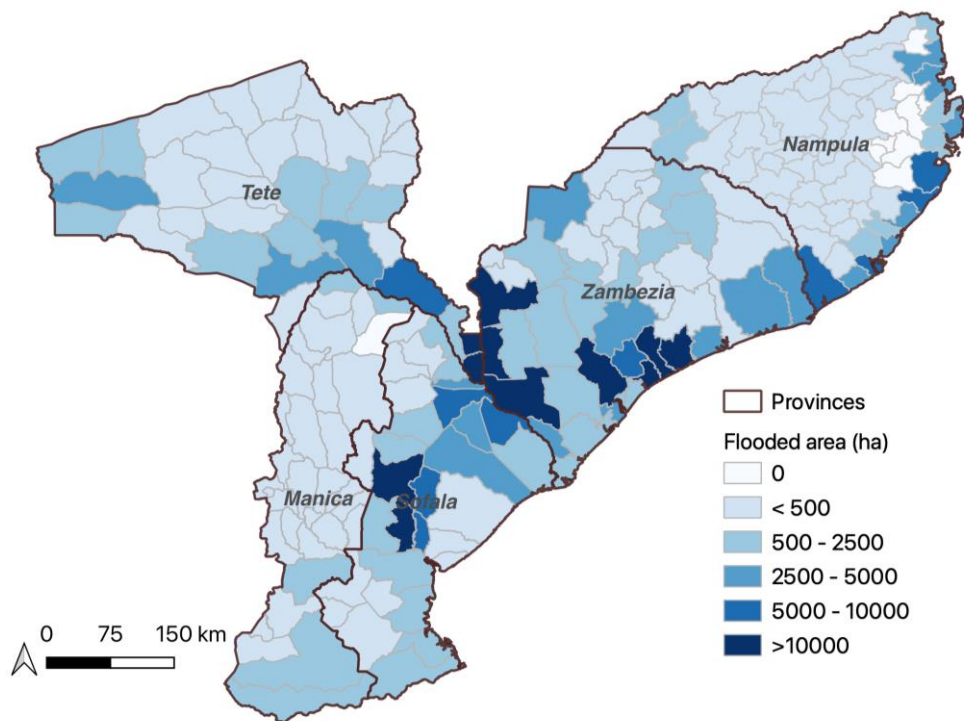
Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Nampula	Angoche	Boila	2 245.70	11 516.80	6.10	0.05	101 120	4 571	4.52
Nampula	Angoche	Namaponda	2 222	3 048	1.80	0.06	44 716	1 670	3.73
Nampula	Cidade De Nampula	Cidade De Nampula	7	4 149.90	0.50	0.01	868 268	548	0.06
Nampula	Erati	Alua	11.50	26 408.40	0.80	0	116 242	9	0.01
Nampula	Erati	Namapa	20.90	35 152.40	1.30	0	157 352	11	0.01
Nampula	Erati	Namiroa	12.70	16 115	0	0	74 828	6	0.01
Nampula	Ilha De Moçambique	Ilha De Moçambique	774.20	123.20	16.30	13.23	56 705	10 195	17.98
Nampula	Ilha De Moçambique	Lumbo	759.20	416.10	6.40	1.54	17 271	1 222	7.08
Nampula	Lalaua	Lalaua	460.40	16 253.20	15.50	0.10	85 617	155	0.18
Nampula	Lalaua	Meti	214.90	2 670.20	3	0.11	22 850	25	0.11
Nampula	Larde	Larde	3 590.50	1 530.10	159.90	10.45	72 158	3 520	4.88
Nampula	Larde	Mucuali	226.90	1 547.60	29.80	1.93	43 591	171	0.39
Nampula	Liúpo	Liúpo	10.10	342.20	1.20	0.35	35 033	1	0
Nampula	Liúpo	Quinga	2 939.80	236.50	30.90	13.07	161 067	7 639	4.74
Nampula	Malema	Chihulo	658.80	6 477.60	12.40	0.19	25 681	101	0.39
Nampula	Malema	Malema	1 123.20	38 205.80	40.70	0.11	140 323	742	0.53
Nampula	Malema	Mutuali	211.90	25 652.60	11.80	0.05	73 115	98	0.13
Nampula	Meconta	7 De Abril	6.20	1 499.20	0	0	47 819	5	0.01
Nampula	Meconta	Corrane	23.70	10 468.10	0.10	0	74 964	13	0.02
Nampula	Meconta	Meconta	0.90	1 338.70	0	0	19 855	0	0
Nampula	Meconta	Namialo	0	6 478.30	0	0	77 983	0	0
Nampula	Mecuburi	Mecuburi	26.20	11 901	0	0	110 852	8	0.01
Nampula	Mecuburi	Milhana	7.30	8 362.80	0.20	0	20 645	1	0
Nampula	Mecuburi	Muite	31.80	11 900.90	2	0.02	49 629	8	0.02
Nampula	Mecuburi	Namina	11.70	4 103.60	0	0	52 368	3	0.01
Nampula	Memba	Chipene	0	1 360	0	0	53 200	0	0

Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Nampula	Memba	Lurio	1 791.60	522.60	0.30	0.06	24 167	1 738	7.19
Nampula	Memba	Mazula	2 967.50	2 991.60	13.30	0.44	185 933	4 987	2.68
Nampula	Memba	Memba	3 140	2 919	19.20	0.66	103 113	3 460	3.36
Nampula	Mogincual	Namige	7 259.20	534.40	23.30	4.36	22 326	2 607	11.68
Nampula	Mogincual	Quixaxe	0	279.30	0	0	30 442	0	0
Nampula	Mogovolas	Calipo	13.40	9 785.50	0.50	0.01	91 194	5	0.01
Nampula	Mogovolas	Iuluti	26.20	16 636.90	1.10	0.01	89 151	6	0.01
Nampula	Mogovolas	Muatua	3.30	3 116.40	0.10	0	49 969	4	0.01
Nampula	Mogovolas	Nametil	134.50	11 585.80	14.20	0.12	179 874	434	0.24
Nampula	Mogovolas	Nanhupo Rio	8.70	3 232.60	1	0.03	56 659	3	0.01
Nampula	Moma	Chalaua	61.50	11 375.70	3.50	0.03	100 567	27	0.03
Nampula	Moma	Moma	5 034.90	9 868.10	51.30	0.52	232 054	14 475	6.24
Nampula	Monapo	Itoculo	0	14 429.40	0	0	72 129	0	0
Nampula	Monapo	Monapo	0	14 407.30	0	0	185 567	0	0
Nampula	Monapo	Netia	0	25 693.50	0	0	211 110	0	0
Nampula	Mossuril	Lunga	5 728.60	595.90	0.70	0.12	51 413	2 921	5.68
Nampula	Mossuril	Matibane	2 693.80	3 063.20	17.50	0.57	53 522	1 266	2.37
Nampula	Mossuril	Mossuril	958.40	2 160.30	0.80	0.04	45 923	1 568	3.41
Nampula	Muecate	Imala	2.80	3 536.20	0	0	48 337	0	0
Nampula	Muecate	Muculoene	3.30	1 744	0	0	27 192	0	0
Nampula	Muecate	Muecate	38.20	11 416.50	0.50	0	83 713	12	0.01
Nampula	Murrupula	Chinga	3.40	1 154.60	0	0	34 693	2	0.01
Nampula	Murrupula	Murrupula	22.30	13 425.50	0	0	154 906	13	0.01
Nampula	Murrupula	Nihessiué	22.70	6 616.30	0.40	0.01	37 635	9	0.02
Nampula	Nacala	Nacala	1 180.50	1 613.60	0.20	0.01	304 652	2 071	0.68
Nampula	Nacala0A0Velha	Covo	0	1 385.90	0	0	27 573	0	0

Province (ADM1)	District (ADM2)	Posto (ADM3)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Nampula	Nacala0A0Velha	Nacala0A0Velha	2 345.30	1 296.20	23.30	1.80	82 638	8 832	10.69
Nampula	Nacaroa	Intete	0	2 158.50	0	0	53 136	0	0
Nampula	Nacaroa	Nacaroa	13.50	4 386.30	0.10	0	77 747	17	0.02
Nampula	Nacaroa	Saua0Saua	8	2 670.60	0	0	25 264	2	0.01
Nampula	Rapale	Anchilo	19.40	18 347	2.50	0.01	154 718	10	0.01
Nampula	Rapale	Mutivasse	16.40	4 979	0.30	0.01	32 280	4	0.01
Nampula	Rapale	Namaita	19.80	6 638	0	0	121 505	18	0.01
Nampula	Rapale	Rapale	28.60	4 253.50	4.40	0.10	90 945	48	0.05
Nampula	Ribaue	Cunle	9.30	6 929.70	0	0	44 658	2	0
Nampula	Ribaue	Iapala	33.60	19 051.30	1.30	0.01	139 396	10	0.01
Nampula	Ribaue	Ribaue	14.10	14 696.70	0	0	135 337	3	0

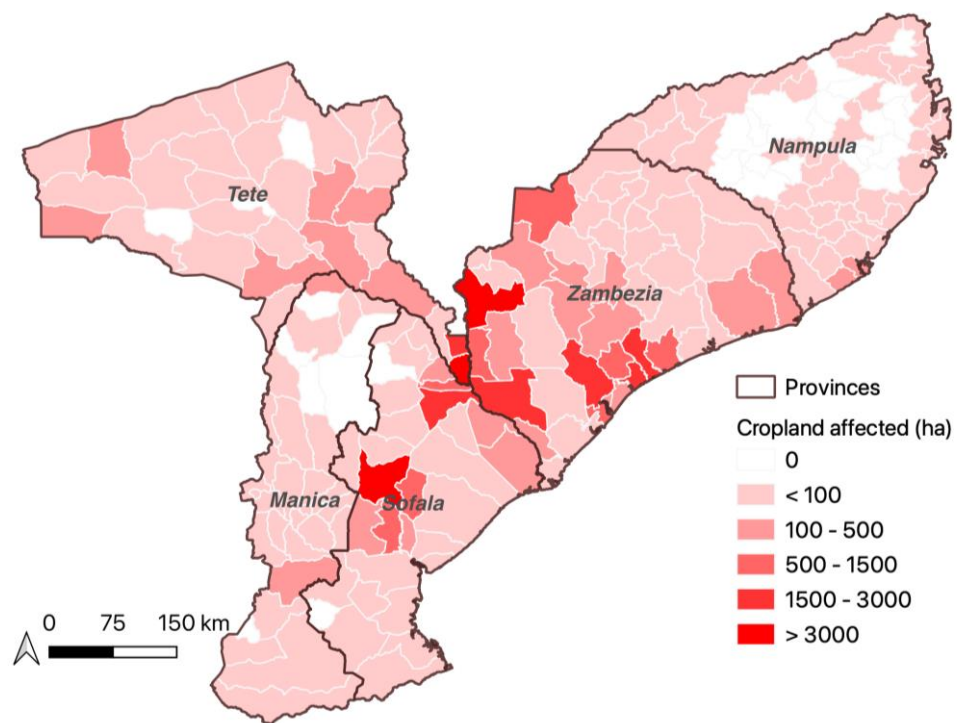
Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 28. Flood area extent by postos (admin level 3) in five provinces of Mozambique after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 29. Flooded crop area extent in postos in five provinces of Mozambique (admin level 3) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Annex IV – Statistical data of geospatial impact assessment in Zambia

Table 7. Total flooded land area, inundated cropland and population exposed to flood in four provinces of Zambia at administrative levels 1 and 2 after Tropical Storm Ana (22 January 2022)

Province (ADM1)	District (ADM2)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Central	Chibombo	894.70	173 083.30	0	0	465 987	60	0.01
Central	Chisamba	0	86 056.70	0	0	130 822	0	0
Central	Chitambo	842.90	24 928.80	0.90	0	94 369	34	0.04
Central	Itezhi0tezhi	20 550.10	43 666.70	57.80	0.13	113 522	1 965	1.73
Central	Kabwe	0	24 217.60	0	0	226 670	0	0
Central	Luano	0	43 158.80	0	0	39 936	0	0
Central	Mkushi	0	125 407.90	0	0	189 770	0	0
Central	Mumbwa	1 864.30	161 778.50	0.90	0	244 460	157	0.06
Central	Ngabwe	974.70	11 458.20	0	0	58 598	72	0.12
Central	Serenje	0	58 709.30	0	0	112 509	0	0
Lusaka	Chilanga	0	22 834.80	0	0	293 905	0	0
Lusaka	Chirundu	26.90	13 557.50	0.50	0	59 830	8	0.01
Lusaka	Chongwe	0	33 117.20	0	0	255 590	0	0
Lusaka	Kafue	3 071.70	15 100.20	0	0	142 868	252	0.18
Lusaka	Luangwa	794.80	3 168.20	9.40	0.30	29 152	43	0.15
Lusaka	Lusaka	0	2 716.70	0	0	2 521 590	0	0
Lusaka	Rufunsa	0	15 684.50	0	0	69 197	0	0
Lusaka	Shibuyunji	0	16 708.10	0	0	73 936	0	0
Southern	Chikankanta	0	32 861	0	0	69 083	0	0
Southern	Choma	188.30	101 317.60	0.70	0	266 709	132	0.05
Southern	Gwembe	861.70	13 890.10	18.60	0.13	79 216	26	0.03

Province (ADM1)	District (ADM2)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Southern	Kalomo	13.30	236 775.50	5.60	0	250 188	3	0
Southern	Kazungula	26 396.10	117 114.30	268.10	0.23	157 165	1 316	0.84
Southern	Livingstone	325.10	1 140.60	4.70	0.41	187 473	315	0.17
Southern	Mazabuka	1 162.40	38 540.50	3.30	0.01	187 599	199	0.11
Southern	Monze	423.90	64 324.60	0.30	0	224 582	55	0.02
Southern	Namwala	3 505.60	58 836.90	6	0.01	118 927	574	0.48
Southern	Pemba	107.60	26 363	28.40	0.11	46 333	17	0.04
Southern	Siavonga	107.30	7 252.20	1.60	0.02	68 567	4	0.01
Southern	Sinazongwe	1 777.10	24 139.70	23.60	0.10	127 595	170	0.13
Southern	Zimba	164	78 703.70	6.70	0.01	130 945	14	0.01
Western	Kalabo	50 985.70	4.10	0.10	2.44	88 610	3 970	4.48
Western	Kaoma	5 970.90	7 035.70	6.20	0.09	106 528	952	0.89
Western	Limulunga	13 450.60	73.70	0.80	1.09	56 998	1 200	2.11
Western	Luampa	637.30	2 034.50	0	0	67 761	40	0.06
Western	Lukulu	6 438.20	2 293.30	2.80	0.12	84 469	679	0.80
Western	Mitete	3 694.40	34.10	0	0	42 210	191	0.45
Western	Mongu	23 797	282.20	0.20	0.07	150 292	4 336	2.89
Western	Mulobezi	155	3 071.30	1.40	0.05	32 948	7	0.02
Western	Mwandi	5 161.70	1 507.50	58.70	3.89	34 112	244	0.71
Western	Nalolo	3 536.80	4	0	0	58 591	253	0.43
Western	Nkeyema	269.90	14 590.60	1.40	0.01	46 104	55	0.12
Western	Senanga	23 955.10	413.70	7.90	1.91	77 547	2 103	2.71
Western	Sesheke	3 828.50	904.30	0.60	0.07	53 557	374	0.70
Western	Shang'ombo	53.80	173.70	0	0	44 527	5	0.01
Western	Sikongo	9 305.80	9.20	0.80	8.70	53 691	829	1.54
Western	Sioma	1 016.50	115.10	0.60	0.52	72 767	404	0.56

Province (ADM1)	District (ADM2)	Flooded area (ha)	Total cropland (ha)	Inundated cropland (ha)	Inundated cropland (%)	Total population	Affected population	Affected population (%)
Central	Kapiri Mposhi	0	188 496.40	0	0	257 406	0	0

Source: HDX, 2019 modified to comply with UN, 2020.

Figure 30 Direct crop damage due to flooding and running water in the very low croplands



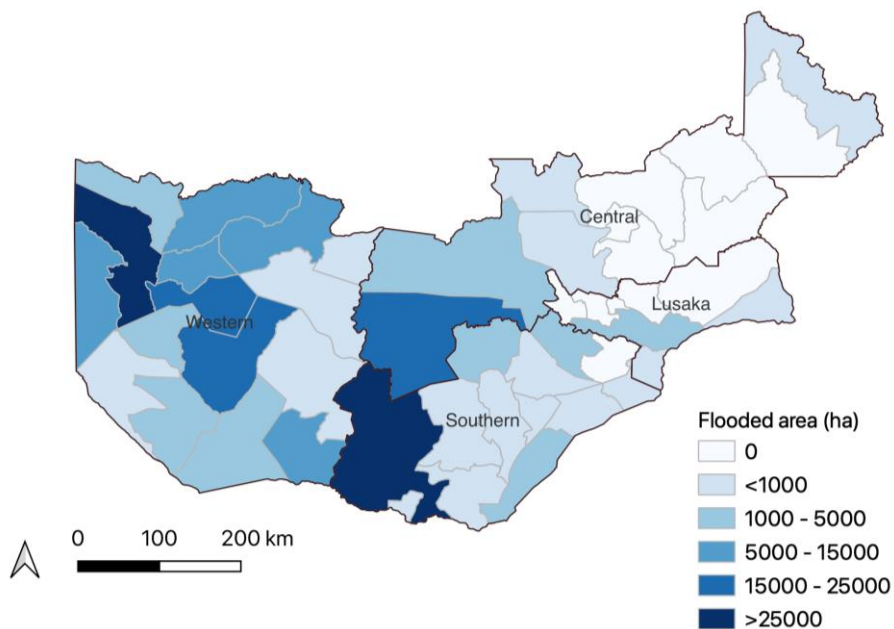
Source: © Ministry of Agriculture, Zambia.

Figure 31 Crop damage due to inundation and the leaching nutrients in the upland fields resulting from prolonged and excessive rainfall



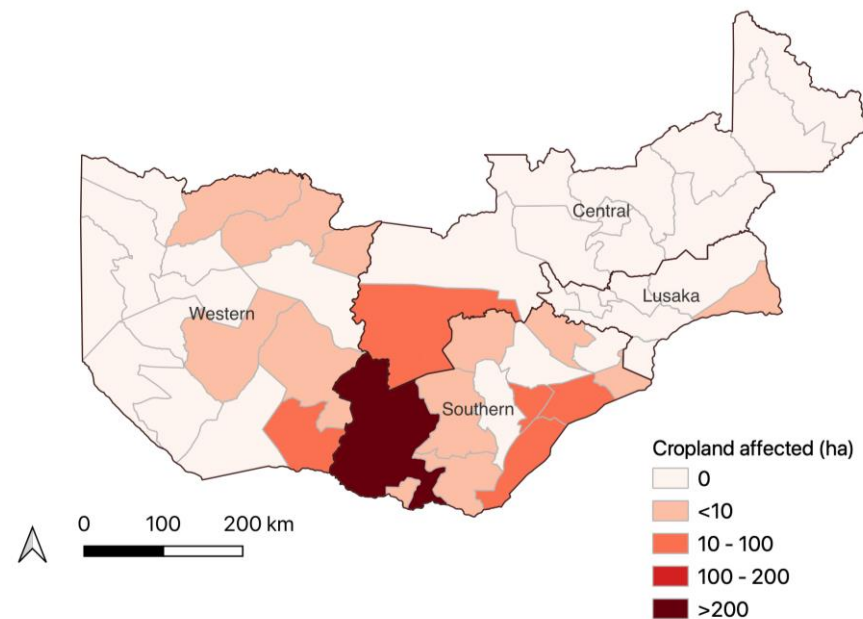
Source: © Ministry of Agriculture, Zambia.

Figure 32. Flood area extent by district (HDX level 2) in four provinces of Zambia after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 33. Flooded crop area extent in district in four provinces of Zambia (admin level 2) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Annex V – Statistical data of geospatial impact assessment in Zimbabwe

Table 8. Total flooded land area, inundated cropland and population exposed to flood in six provinces of Zimbabwe at administrative levels 1, 2 and 3 after Tropical Storm Ana (22 January 2022)

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Manicaland	Makoni	33	0	459.80	0	0	4 946	0	0
Mashonaland Central	Mbire	12	0	3 506.60	0	0	3 967	1	0.03
Masvingo	Chivi	17	0	1 375.10	0	0	5 618	0	0
Masvingo	Chivi	14	0	2 092.70	0	0	9 086	0	0
Masvingo	Mwenezi	16	103.90	22 302.10	1.90	0	27 049	0	0
Masvingo	Bikita	26	0	3 714.30	0	0	4 800	0	0
Masvingo	Bikita	25	0	4 491.80	0	0	5 447	0	0
Mashonaland Central	Guruve	24	0	545.20	0	0	3 213	0	0
Mashonaland West	Makonde	2	0	16 932.40	0	0	18 363	0	0
Mashonaland Central	Guruve	16	0	2 265.50	0	0	4 519	0	0
Manicaland	Chipinge	21	0	2 588.20	0	0	6 134	0	0
Manicaland	Chipinge	20	0	6 015.80	0	0	10 435	33	0.32
Manicaland	Chipinge	23	0	4 175.30	0	0	6 907	0	0
Masvingo	Masvingo	19	0	929.20	0	0	2 276	0	0
Masvingo	Masvingo	12	0	1 497.70	0	0	3 575	0	0
Masvingo	Chivi	31	510.60	152.90	0	0	2 439	0	0
Masvingo	Masvingo	22	1 956.60	4 226.90	4.80	0.10	7 855	0	0
Masvingo	Chivi	15	0	1 055.00	0	0	6 378	0	0
Masvingo	Chivi	18	0	1 285.60	0	0	4 751	0	0
Manicaland	Chipinge	17	0	4 514.70	0	0	8 240	0	0
Manicaland	Chipinge	16	0	4 030.10	0	0	7 169	0	0
Masvingo	Chivi	25	0	1 393.20	0	0	10 069	0	0
Masvingo	Chiredzi	24	84.40	28 792.40	13.10	0	22 970	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Masvingo	Chiredzi	32	80.90	6 141.30	0.50	0	17 381	0	0
Masvingo	Masvingo	21	0	1 484.20	0	0	8 506	0	0
Masvingo	Masvingo	11	0	980.10	0	0	3 088	0	0
Masvingo	Chivi	28	12.90	1 089.20	5.70	0.50	5 089	0	0
Masvingo	Zaka	17	0	2 129.90	0	0	5 124	0	0
Masvingo	Zaka	24	0	2 479.50	0	0	8 071	0	0
Masvingo	Zaka	23	0	2 118.60	0	0	6 277	0	0
Masvingo	Bikita	2	0	3 786.30	0	0	7 519	0	0
Masvingo	Zaka	21	0	2 249.50	0	0	4 689	0	0
Masvingo	Mwenezi	13	156.60	48 890.40	0.70	0	44 067	0	0
Masvingo	Chivi	26	0	1 984.50	0	0	4 479	0	0
Masvingo	Chivi	24	2 691.50	499.20	3.50	0.70	5 561	0	0
Mashonaland West	Hurungwe	21	0	13 286.20	0	0	10 177	0	0
Mashonaland West	Hurungwe	3	0	6 866.50	0	0	18 064	0	0
Masvingo	Zaka	25	52.80	1 882.50	0.20	0	6 865	0	0
Masvingo	Zaka	20	0	2 750.30	0	0	8 078	0	0
Masvingo	Masvingo	23	0	1 158.50	0	0	2 229	0	0
Masvingo	Masvingo	25	0	458.90	0	0	1 796	0	0
Masvingo	Masvingo	31	0	1 281.60	0	0	4 879	0	0
Mashonaland West	Mhondoro0Ngezi	15	0	2 298.70	0	0	4 377	0	0
Masvingo	Zaka	28	0	2 107.00	0	0	6 997	0	0
Masvingo	Masvingo	24	0	1 281.10	0	0	2 525	0	0
Masvingo	Zaka	30	0	1 924.50	0	0	4 660	0	0
Masvingo	Chiredzi	20	0	19 614.10	0	0	18 440	1	0.01
Mashonaland West	Mhondoro0Ngezi	10	0	1 941.80	0	0	8 116	0	0
Mashonaland West	Mhondoro0Ngezi	12	240.90	6 888.80	1.50	0	9 338	0	0
Masvingo	Gutu	3	0	5 240.30	0	0	9 468	0	0
Masvingo	Gutu	9	0	3 680.50	0	0	4 118	0	0
Mashonaland East	Murehwa	22	0	11 280.50	0	0	33 572	0	0
Mashonaland East	Murehwa	23	18.20	7 743.40	13.20	0.20	29 501	0	0
Mashonaland East	Seke	13	0	380.80	0	0	1 060	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland East	Seke	14	0	4 473.50	0	0	6 817	0	0
Mashonaland East	Seke	12	0	3 531.30	0	0	7 550	0	0
Mashonaland East	Seke	20	0	6 046.00	0	0	10 200	0	0
Manicaland	Makoni	31	0	9 395.30	0	0	9 490	0	0
Manicaland	Buhera	12	0	4 391.50	0	0	13 148	0	0
Manicaland	Makoni	39	0	1 394.60	0	0	2 944	0	0
Manicaland	Makoni	25	0	1 945.50	0	0	8 672	0	0
Masvingo	Gutu	16	0	4 258.60	0	0	7 486	0	0
Manicaland	Buhera	24	0	7 002.40	0	0	7 120	0	0
Manicaland	Makoni	37	83.60	8 908.00	0.70	0	21 444	0	0
Manicaland	Buhera	21	0	6 784.20	0	0	4 710	0	0
Manicaland	Makoni	21	0	1 527.50	0	0	2 739	0	0
Manicaland	Makoni	19	0	3 050.80	0	0	4 351	1	0.02
Masvingo	Masvingo	6	0	6 207.90	0	0	24 911	0	0
Masvingo	Masvingo Urban	10	0	282.90	0	0	22 177	0	0
Masvingo	Masvingo	7	0	2 268.40	0	0	18 913	0	0
Masvingo	Masvingo Urban	9	0	27.00	0	0	15 768	0	0
Mashonaland West	Chegutu	2	0	4 492.80	0	0	4 155	0	0
Mashonaland West	Chegutu	1	0	1 292.30	0	0	3 698	0	0
Manicaland	Makoni	15	0	2 028.00	0	0	7 296	0	0
Mashonaland East	Chikomba	1	0	9 043.80	0	0	10 119	0	0
Manicaland	Buhera	18	0	6 135.40	0	0	5 299	0	0
Manicaland	Buhera	32	0	5 703.70	0	0	5 028	0	0
Mashonaland West	Mhondoro0Ngezi	1	0	981.30	0	0	3 283	0	0
Manicaland	Buhera	26	0	4 753.00	0	0	4 484	0	0
Masvingo	Bikita	20	0	2 512.60	0	0	5 185	1	0.02
Masvingo	Gutu	32	0	5 956.80	0	0	18 191	0	0
Masvingo	Masvingo Urban	8	0	106.10	0	0	22 037	0	0
Mashonaland East	Chikomba	13	0	2 935.10	0	0	4 180	0	0
Mashonaland East	Chikomba	8	1.20	13 107.30	0	0	25 105	0	0
Manicaland	Mutare	29	0	2 953.50	0	0	7 944	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Manicaland	Chimanimani	2	0	112.80	0	0	4 845	0	0
Manicaland	Chimanimani	1	0	1 821.20	0	0	13 888	0	0
Mashonaland East	Hwedza	12	0	1 556.80	0	0	3 005	0	0
Manicaland	Mutasa	12	0	1 788.60	0	0	3 410	0	0
Manicaland	Mutasa	14	0	590.70	0	0	2 773	0	0
Manicaland	Mutare	22	0	4 213.70	0	0	15 324	0	0
Manicaland	Buhera	23	0	10 216.30	0	0	15 652	0	0
Manicaland	Mutare	24	0	4 186.50	0	0	7 340	0	0
Manicaland	Mutare	30	0	2 354.50	0	0	20 538	0	0
Masvingo	Masvingo Urban	5	0	37.60	0	0	5 628	0	0
Masvingo	Masvingo Urban	3	0	86.20	0	0	5 666	0	0
Manicaland	Mutasa	13	0	1 208.90	0	0	3 245	0	0
Mashonaland East	Marondera	8	0	4 313.90	0	0	5 565	0	0
Manicaland	Nyanga	26	0	261.20	0	0	7 505	0	0
Mashonaland West	Chegutu	6	0	1 409.80	0	0	2 276	0	0
Mashonaland East	Hwedza	14	0	1 324.40	0	0	6 926	0	0
Manicaland	Makoni	20	0	5 130.10	0	0	5 588	0	0
Masvingo	Masvingo Urban	6	0	32.00	0	0	9 621	0	0
Masvingo	Gutu	12	0	3 846.30	0	0	5 923	0	0
Manicaland	Buhera	19	0	4 126.70	0	0	3 091	0	0
Masvingo	Gutu	6	0	1 230.90	0	0	2 060	0	0
Masvingo	Gutu	7	0	4 756.80	0	0	11 157	0	0
Mashonaland East	Hwedza	13	0	1 332.10	0	0	6 929	0	0
Manicaland	Makoni	28	0	2 108.30	0	0	6 136	0	0
Masvingo	Gutu	5	0	1 365.40	0	0	3 001	0	0
Manicaland	Makoni	12	0	4 025.30	0	0	7 882	0	0
Mashonaland West	Hurungwe	5	0	5 771.00	0	0	20 271	0	0
Mashonaland West	Karoi	10	0	35.00	0	0	2 094	0	0
Mashonaland West	Makonde	1	0	9 490.30	0	0	13 272	0	0
Mashonaland West	Hurungwe	7	801.50	5 228.70	7.80	0.10	147 600	3	0
Mashonaland West	Karoi	9	0	40.30	0	0	3 028	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Makonde	18	0	610.60	0	0	3 886	0	0
Masvingo	Masvingo Urban	1	0	6.30	0	0	2 147	0	0
Masvingo	Bikita	24	0	3 840.60	0	0	10 150	0	0
Manicaland	Mutare	28	0	2 433.70	0	0	5 460	0	0
Masvingo	Gutu	1	186.50	19 398.00	4.10	0	22 572	0	0
Manicaland	Buhera	20	0	7 620.30	0	0	5 042	1	0.02
Manicaland	Buhera	22	0	10 880.70	0	0	12 760	0	0
Manicaland	Mutasa	11	0	1 055.30	0	0	6 811	0	0
Manicaland	Mutasa	9	0	263.40	0	0	2 265	0	0
Manicaland	Makoni	38	0	6 132.50	0	0	19 841	0	0
Mashonaland West	Karoi	8	0	89.60	0	0	12 425	0	0
Mashonaland West	Zvimba	20	0	6 458.50	0	0	11 153	0	0
Mashonaland West	Zvimba	19	35.30	6 219.60	9.90	0.20	8 443	0	0
Mashonaland West	Zvimba	33	46.10	5 461.50	1.90	0	8 240	0	0
Mashonaland East	Murehwa	24	13.10	11 050.00	0	0	39 325	0	0
Mashonaland East	Murehwa	17	0	1 092.40	0	0	4 723	0	0
Mashonaland East	Goromonzi	2	0	1 139.60	0	0	7 145	0	0
Mashonaland East	Goromonzi	1	0	1 317.20	0	0	3 399	0	0
Mashonaland West	Makonde	10	29.80	2 410.70	0.90	0	3 055	0	0
Mashonaland West	Sanyati	16	0	994.40	0	0	4 522	0	0
Mashonaland West	Hurungwe	8	0	3 010.70	0	0	6 513	0	0
Mashonaland West	Hurungwe	4	0	5 579.60	0	0	11 693	0	0
Mashonaland West	Makonde	16	0	222.50	0	0	9 817	0	0
Mashonaland West	Makonde	8	0	12 365.30	0	0	17 267	0	0
Mashonaland Central	Rushinga	2	31.60	299.30	0.20	0.10	3 858	0	0
Mashonaland East	Murehwa	21	0	1 653.30	0	0	4 217	0	0
Mashonaland East	Murehwa	4	0	908.60	0	0	2 424	0	0
Mashonaland East	Murehwa	3	0	1 133.50	0	0	4 310	0	0
Mashonaland East	Goromonzi	4	0	1 410.80	0	0	14 634	0	0
Mashonaland East	Murehwa	5	0	978.20	0	0	4 814	0	0
Mashonaland East	Murehwa	6	0	688.20	0	0	2 402	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland East	Mutoko	19	0	1 764.90	0	0	9 831	0	0
Mashonaland East	Mutoko	24	0	824.40	0	0	7 189	0	0
Mashonaland East	Murehwa	10	0	874.20	0	0	4 738	0	0
Mashonaland East	Mutoko	26	0	4 457.10	0	0	9 394	0	0
Mashonaland East	Uzumba Maramba Pfungwe	17	0	305.80	0	0	7 177	0	0
Mashonaland East	Uzumba Maramba Pfungwe	16	0	239.90	0	0	6 558	0	0
Mashonaland Central	Centenary/ Muzarabani	29	0	1 614.90	0	0	16 525	0	0
Mashonaland Central	Guruve	21	27.20	5 430.20	3.70	0.10	11 881	0	0
Mashonaland East	Goromonzi	5	0	1 142.40	0	0	962	0	0
Mashonaland Central	Mazowe	19	0	4 576.30	0	0	9 650	0	0
Mashonaland Central	Mount Darwin	9	0	377.70	0	0	1 833	0	0
Mashonaland Central	Mount Darwin	17	0	2 240.60	0	0	5 780	0	0
Mashonaland Central	Mount Darwin	18	0	2 612.40	0	0	8 484	0	0
Mashonaland Central	Rushinga	8	0	1 276.90	0	0	3 762	0	0
Mashonaland Central	Bindura	16	0	1 293.50	0	0	6 361	0	0
Mashonaland Central	Bindura	15	0	655.30	0	0	3 761	0	0
Mashonaland Central	Bindura	17	0	849.50	0	0	4 011	0	0
Mashonaland Central	Mount Darwin	38	0	1 036.50	0	0	3 502	0	0
Mashonaland Central	Mount Darwin	37	0	601.20	0	0	4 700	0	0
Mashonaland Central	Rushinga	9	0	877.60	0	0	3 195	0	0
Mashonaland Central	Mazowe	34	0	2 692.30	0	0	6 483	0	0
Mashonaland Central	Mazowe	23	40.30	6 861.10	5.80	0.10	12 211	0	0
Mashonaland Central	Rushinga	11	0	1 233.70	0	0	2 886	0	0
Mashonaland Central	Rushinga	10	0	1 131.60	0	0	5 996	0	0
Mashonaland West	Chegutu	15	40	7 931.80	1.50	0	24 164	0	0
Mashonaland West	Zvimba	25	29.90	8 205.00	5.50	0.10	10 709	0	0
Mashonaland Central	Guruve	3	0	1 494.40	0	0	5 411	0	0
Mashonaland Central	Mount Darwin	10	0	3 935.10	0	0	10 043	0	0
Mashonaland Central	Mount Darwin	15	0	3 879.80	0	0	9 019	0	0
Manicaland	Nyanga	3	0	1 477.60	0	0	5 635	0	0
Manicaland	Nyanga	5	0	656.80	0	0	3 160	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland East	Goromonzi	10	0	1 644.40	0	0	4 084	0	0
Mashonaland Central	Rushinga	17	0	1 053.20	0	0	3 566	0	0
Mashonaland Central	Rushinga	7	0	2 473.80	0	0	3 055	0	0
Mashonaland Central	Mazowe	26	27	5 165.70	4.60	0.10	26 034	0	0
Mashonaland Central	Mazowe	29	13.20	7 042.20	0	0	27 809	0	0
Mashonaland Central	Mount Darwin	30	0	285.50	0	0	5 924	0	0
Mashonaland Central	Shamva	16	0	2 813.40	0	0	26 320	0	0
Mashonaland Central	Rushinga	22	0	858.80	0	0	2 848	0	0
Mashonaland Central	Centenary/ Muzarabani	12	13.70	2 319.00	5.10	0.20	8 776	0	0
Mashonaland Central	Centenary/ Muzarabani	11	0	1 724.80	0	0	5 465	0	0
Mashonaland Central	Rushinga	6	0	366.30	0	0	945	0	0
Mashonaland East	Murehwa	18	0	1 511.10	0	0	3 324	0	0
Mashonaland Central	Mount Darwin	12	0	2 576.60	0	0	6 253	0	0
Mashonaland East	Murehwa	12	0	1 401.60	0	0	8 875	0	0
Mashonaland Central	Guruve	4	0	1 786.00	0	0	2 254	0	0
Mashonaland Central	Guruve	2	0	3 412.70	0	0	4 019	0	0
Mashonaland East	Mutoko	25	0	5 588.90	0	0	12 672	0	0
Mashonaland Central	Centenary/ Muzarabani	25	0	1 886.90	0	0	5 643	0	0
Mashonaland Central	Centenary/ Muzarabani	16	0	922.40	0	0	1 929	1	0.05
Mashonaland Central	Mount Darwin	19	0	3 493.60	0	0	20 721	0	0
Mashonaland Central	Guruve	18	0	1 706.70	0	0	2 299	0	0
Mashonaland East	Murehwa	7	0	555.10	0	0	2 642	0	0
Mashonaland East	Goromonzi	6	0	2 614.90	0	0	18 806	0	0
Mashonaland Central	Mount Darwin	36	0	2 001.00	0	0	7 059	0	0
Mashonaland East	Goromonzi	11	0	1 787.40	0	0	6 824	0	0
Mashonaland East	Murehwa	19	0	909.30	0	0	2 024	0	0
Mashonaland Central	Rushinga	20	0	247.10	0	0	2 692	0	0
Mashonaland Central	Mazowe	30	13.70	6 097.80	0.10	0	14 211	0	0
Mashonaland Central	Mazowe	24	0	5 606.10	0	0	17 798	0	0
Mashonaland Central	Mazowe	31	0	5 316.50	0	0	11 505	0	0
Mashonaland Central	Guruve	14	0	4 722.90	0	0	24 014	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland Central	Guruve	1	121.30	9 070.70	3.80	0	24 737	0	0
Masvingo	Masvingo	35	0	113.80	0	0	2 382	0	0
Masvingo	Chiredzi	10	0	4 995.40	0	0	5 841	0	0
Masvingo	Chiredzi	12	0	542.60	0	0	5 177	0	0
Masvingo	Chiredzi	11	0	10 210.20	0	0	8 892	0	0
Masvingo	Chiredzi	13	0	2 394.60	0	0	8 112	0	0
Mashonaland West	Kadoma Urban	11	0	12.60	0	0	932	0	0
Mashonaland West	Kadoma Urban	17	0	7.10	0	0	1 762	0	0
Masvingo	Masvingo Urban	4	0	17.20	0	0	4 294	0	0
Masvingo	Chiredzi Urban	8	0	45.80	0	0	3 750	0	0
Masvingo	Chiredzi Urban	5	0	4.50	0	0	2 649	0	0
Masvingo	Chiredzi Urban	7	0	10.00	0	0	1 627	0	0
Masvingo	Chiredzi Urban	6	0	0.80	0	0	733	0	0
Mashonaland West	Sanyati	1	27.30	8 332.50	1.30	0	16 573	0	0
Mashonaland West	Kadoma Urban	15	0	137.50	0	0	6 013	0	0
Masvingo	Mwenezi	18	0	51.60	0	0	857	0	0
Masvingo	Mwenezi	14	0	15 465.60	0	0	14 481	0	0
Manicaland	Nyanga	15	0	2 492.20	0	0	4 337	0	0
Manicaland	Makoni	4	0	478.60	0	0	2 425	0	0
Manicaland	Makoni	2	0	5 811.80	0	0	13 426	0	0
Masvingo	Masvingo Urban	7	0	40.90	0	0	5 984	0	0
Masvingo	Masvingo	14	0	1 883.00	0	0	4 055	0	0
Masvingo	Gutu	31	0	1 857.60	0	0	4 468	0	0
Masvingo	Gutu	30	0	1 364.00	0	0	3 585	0	0
Masvingo	Zaka	18	0	3 827.60	0	0	6 934	0	0
Masvingo	Masvingo	16	0	3 857.00	0	0	2 570	0	0
Masvingo	Masvingo	15	0	1 766.90	0	0	1 860	0	0
Masvingo	Bikita	14	0	2 774.20	0	0	2 774	0	0
Masvingo	Bikita	7	0	3 571.70	0	0	3 017	0	0
Masvingo	Bikita	8	0	2 640.30	0	0	2 964	0	0
Masvingo	Bikita	4	91.40	3 462.70	37.30	1.10	4 176	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Masvingo	Bikita	29	0	1 276.60	0	0	5 702	0	0
Masvingo	Bikita	28	0	1 370.30	0	0	3 320	0	0
Masvingo	Bikita	10	0	1 402.00	0	0	5 946	0	0
Masvingo	Zaka	2	0	1 594.30	0	0	5 224	0	0
Masvingo	Zaka	15	0	4 971.80	0	0	10 418	0	0
Masvingo	Gutu	11	0	3 967.50	0	0	3 834	0	0
Masvingo	Gutu	15	0	8 179.90	0	0	8 200	0	0
Mashonaland Central	Guruve	12	0	2 188.50	0	0	4 568	0	0
Masvingo	Bikita	21	0	2 274.50	0	0	4 082	0	0
Masvingo	Bikita	18	0	1 776.00	0	0	4 174	0	0
Masvingo	Bikita	11	0	2 593.60	0	0	9 164	0	0
Masvingo	Bikita	30	0	128.10	0	0	4 784	0	0
Masvingo	Bikita	12	0	1 798.30	0	0	3 394	0	0
Masvingo	Bikita	22	0	4 136.20	0	0	5 800	0	0
Masvingo	Masvingo	8	0	8 108.50	0	0	24 360	0	0
Masvingo	Gutu	25	0	1 466.70	0	0	3 268	0	0
Masvingo	Bikita	9	0	1 719.70	0	0	7 570	0	0
Masvingo	Bikita	13	0	2 321.40	0	0	5 462	0	0
Masvingo	Bikita	32	0	1 142.90	0	0	4 797	0	0
Masvingo	Bikita	16	0	2 789.90	0	0	3 511	0	0
Masvingo	Bikita	17	0	2 123.30	0	0	4 473	0	0
Masvingo	Gutu	26	0	1 743.50	0	0	4 801	0	0
Masvingo	Gutu	28	0	1 844.60	0	0	4 296	0	0
Manicaland	Mutasa	19	0	1 374.30	0	0	7 545	0	0
Mashonaland East	Hwedza	1	0	5 993.60	0	0	7 461	0	0
Mashonaland East	Chikomba	2	0	3 436.30	0	0	3 146	0	0
Manicaland	Mutasa	27	0	287.10	0	0	8 072	0	0
Manicaland	Mutasa	8	0	659.60	0	0	4 555	0	0
Manicaland	Mutasa	16	0	913.70	0	0	2 085	9	0.43
Manicaland	Makoni	26	0	2 450.20	0	0	5 013	0	0
Mashonaland West	Chinhoyi	1	0	11.60	0	0	4 275	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Chinhoyi	2	0	1.20	0	0	1 383	0	0
Manicaland	Makoni	14	0	1 594.40	0	0	2 383	0	0
Mashonaland East	Hwedza	3	0	2 227.80	0	0	3 849	0	0
Mashonaland East	Hwedza	2	0	9 112.80	0	0	21 283	0	0
Mashonaland East	Marondera	7	0	6 450.20	0	0	9 917	0	0
Mashonaland East	Hwedza	15	0	350.30	0	0	1 709	0	0
Mashonaland East	Hwedza	9	0	1 112.20	0	0	6 283	0	0
Mashonaland East	Hwedza	4	0	3 135.80	0	0	3 470	0	0
Mashonaland East	Chikomba	3	0	1 891.80	0	0	3 676	0	0
Mashonaland East	Hwedza	8	0	1 501.30	0	0	4 541	0	0
Mashonaland East	Hwedza	7	0	953.50	0	0	4 514	0	0
Manicaland	Makoni	24	0	1 207.90	0	0	5 553	0	0
Mashonaland East	Chikomba	23	0	1 499.60	0	0	1 648	0	0
Mashonaland East	Hwedza	11	0	849.30	0	0	2 471	0	0
Mashonaland East	Chikomba	5	0	1 922.20	0	0	1 216	0	0
Mashonaland East	Chikomba	25	0	1 836.10	0	0	4 486	0	0
Mashonaland East	Chikomba	22	0	739.50	0	0	2 154	0	0
Mashonaland East	Chikomba	28	0	587.90	0	0	2 089	0	0
Mashonaland East	Marondera	9	0	426.40	0	0	951	0	0
Mashonaland East	Marondera	12	0	688.80	0	0	1 949	0	0
Mashonaland East	Seke	15	0	4 712.60	0	0	4 102	0	0
Mashonaland East	Seke	19	0	1 491.40	0	0	1 740	0	0
Mashonaland East	Marondera	10	0	2 194.50	0	0	2 306	0	0
Mashonaland East	Marondera	5	39.80	8 537.60	0.60	0	20 559	0	0
Mashonaland East	Marondera Urban	6	0	34.00	0	0	1 295	0	0
Mashonaland East	Marondera	19	0	850.70	0	0	694	0	0
Mashonaland East	Marondera Urban	8	0	61.80	0	0	4 602	0	0
Mashonaland East	Marondera	20	0	876.30	0	0	1 027	0	0
Mashonaland East	Seke	18	0	1 275.90	0	0	2 317	0	0
Mashonaland West	Zvimba	35	159.60	6 182.90	16.60	0.30	45 074	0	0
Harare	Harare Rural	1	0	5 970.90	0	0	159 102	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Harare	Chitungwiza	6	0	209.60	0	0	28 689	0	0
Mashonaland East	Seke	10	0	6 404.80	0	0	27 534	0	0
Harare	Chitungwiza	12	0	111.90	0	0	37 368	0	0
Harare	Chitungwiza	18	0	50.70	0	0	31 100	0	0
Mashonaland East	Seke	8	0	1 559.60	0	0	34 082	0	0
Harare	Chitungwiza	24	0	4.50	0	0	15 384	0	0
Harare	Chitungwiza	23	0	16.20	0	0	19 011	0	0
Harare	Chitungwiza	22	0	5.50	0	0	11 974	0	0
Harare	Harare	21	0	1 161.30	0	0	53 418	0	0
Harare	Harare	20	0	347.80	0	0	14 220	0	0
Mashonaland East	Ruwa	8	0	135.70	0	0	13 937	0	0
Harare	Harare	46	0	71.10	0	0	6 691	0	0
Mashonaland East	Goromonzi	15	0	1 805.70	0	0	14 481	0	0
Harare	Harare	22	0	216.00	0	0	86 088	0	0
Harare	Epworth	7	0	4.00	0	0	15 280	0	0
Harare	Harare	9	0	1 796.00	0	0	208 758	0	0
Mashonaland Central	Guruve	15	0	1 660.10	0	0	2 429	0	0
Mashonaland West	Zvimba	17	81.30	9 171.50	0.40	0	18 446	0	0
Mashonaland West	Zvimba	23	0	1 608.90	0	0	7 293	0	0
Mashonaland West	Zvimba	22	0	24.70	0	0	256	0	0
Mashonaland West	Makonde	9	315	11 107.10	25	0.20	16 777	0	0
Mashonaland West	Chinhoyi	15	0	930.70	0	0	3 929	0	0
Mashonaland West	Zvimba	30	78	10 096.50	15.50	0.20	13 929	0	0
Mashonaland West	Zvimba	18	121.90	8 732.20	19.70	0.20	12 340	0	0
Mashonaland Central	Guruve	7	0	3 262.50	0	0	5 052	0	0
Mashonaland Central	Guruve	22	0	1 850.80	0	0	3 075	0	0
Mashonaland West	Chinhoyi	11	0	920.50	0	0	19 123	0	0
Mashonaland West	Chinhoyi	3	0	80.90	0	0	4 768	0	0
Mashonaland West	Chinhoyi	13	0	103.90	0	0	2 344	0	0
Mashonaland West	Chinhoyi	5	0	361.70	0	0	6 021	0	0
Mashonaland West	Chinhoyi	14	0	1 054.90	0	0	20 564	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Chinhoyi	9	0	472.30	0	0	11 713	0	0
Mashonaland West	Makonde	6	39.90	6 486.50	11.70	0.20	8 034	0	0
Mashonaland West	Chinhoyi	10	0	7.90	0	0	6 394	0	0
Mashonaland West	Chinhoyi	8	0	12.70	0	0	3 214	0	0
Mashonaland West	Zvimba	31	40.20	5 629.70	3.20	0.10	4 749	0	0
Mashonaland West	Chinhoyi	12	0	36.20	0	0	3 121	0	0
Mashonaland West	Chinhoyi	4	0	13.20	0	0	2 365	0	0
Mashonaland West	Chinhoyi	7	0	2.40	0	0	767	0	0
Mashonaland West	Chinhoyi	6	0	1.00	0	0	624	0	0
Mashonaland West	Makonde	13	10.30	10 261.20	0	0	12 374	0	0
Mashonaland West	Makonde	4	11.20	17 175.40	0	0	20 092	0	0
Mashonaland West	Makonde	11	0	11 141.00	0	0	17 445	0	0
Mashonaland East	Uzumba Maramba Pfungwe	10	0	1 621.00	0	0	5 875	0	0
Mashonaland East	Uzumba Maramba Pfungwe	13	0	1 848.50	0	0	8 932	0	0
Mashonaland Central	Bindura Urban	4	0	11.30	0	0	1 851	0	0
Mashonaland Central	Bindura Urban	5	0	7.20	0	0	1 571	0	0
Mashonaland Central	Bindura Urban	7	0	1.60	0	0	1 360	0	0
Mashonaland Central	Shamva	19	0	276.20	0	0	5 929	0	0
Mashonaland East	Mudzi	11	0	1 031.00	0	0	6 125	0	0
Mashonaland East	Mudzi	17	94.10	951.70	0.40	0	14 312	8	0.06
Mashonaland Central	Rushinga	1	0	106.10	0	0	6 612	0	0
Mashonaland East	Mudzi	10	0	1 301.20	0	0	7 616	0	0
Mashonaland East	Mudzi	2	49.30	1 986.90	0.70	0	12 344	0	0
Mashonaland East	Uzumba Maramba Pfungwe	2	0	899.70	0	0	7 271	0	0
Mashonaland East	Uzumba Maramba Pfungwe	1	0	1 201.80	0	0	14 088	0	0
Mashonaland Central	Rushinga	18	0	523.00	0	0	7 934	0	0
Mashonaland East	Mudzi	9	0	1 340.80	0	0	6 818	0	0
Mashonaland East	Mudzi	3	0	2 438.70	0	0	12 162	0	0
Mashonaland East	Uzumba Maramba Pfungwe	5	0	337.20	0	0	5 725	0	0
Mashonaland East	Mutoko	1	0	530.70	0	0	3 930	0	0
Mashonaland East	Mutoko	8	0	366.50	0	0	2 469	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland East	Mutoko	13	0	636.00	0	0	4 021	0	0
Mashonaland East	Mutoko	14	0	805.70	0	0	3 459	0	0
Mashonaland East	Mutoko	16	0	1 000.20	0	0	6 588	0	0
Mashonaland West	Kariba Urban	6	0	0	0	0	354	0	0
Mashonaland West	Kariba Urban	5	0	0	0	0	1 100	0	0
Mashonaland Central	Mbire	2	0	2 604.30	0	0	14 709	4	0.03
Mashonaland Central	Mbire	3	0	3 626.70	0	0	3 742	0	0
Mashonaland Central	Mbire	9	0	2 026.20	0	0	4 095	0	0
Mashonaland Central	Mbire	17	0	1 645.80	0	0	2 564	0	0
Mashonaland East	Mutoko	15	0	435.80	0	0	1 873	0	0
Mashonaland East	Mudzi	14	0	475.50	0	0	6 030	0	0
Mashonaland East	Mutoko	5	0	666.70	0	0	5 550	0	0
Mashonaland Central	Guruve	17	0	1 808.30	0	0	2 938	0	0
Mashonaland Central	Mbire	16	0	1 464.60	0	0	1 909	0	0
Mashonaland Central	Mbire	5	0	2 511.50	0	0	3 015	38	1.26
Mashonaland Central	Mbire	13	0	3 938.00	0	0	6 739	0	0
Mashonaland Central	Centenary/ Muzarabani	4	0	3 829.10	0	0	2 779	3	0.11
Mashonaland Central	Centenary/ Muzarabani	23	9.90	7 662.90	2.40	0	6 733	158	2.35
Mashonaland Central	Centenary/ Muzarabani	1	0	4 180.00	0	0	4 258	15	0.35
Mashonaland East	Mutoko	12	0	842.10	0	0	6 387	0	0
Mashonaland East	Mutoko	18	0	1 741.10	0	0	7 818	0	0
Mashonaland East	Mutoko	11	0	490.00	0	0	6 113	0	0
Mashonaland East	Mutoko	10	0	424.10	0	0	2 902	0	0
Mashonaland East	Mutoko	17	0	1 816.70	0	0	2 697	0	0
Mashonaland East	Mutoko	23	0	707.10	0	0	5 142	0	0
Mashonaland Central	Rushinga	15	0	1 324.90	0	0	2 743	0	0
Mashonaland Central	Mount Darwin	2	65.90	1 875.70	36.70	2	5 315	11	0.21
Mashonaland Central	Mount Darwin	3	0	2 392.40	0	0	4 581	2	0.04
Mashonaland Central	Centenary/ Muzarabani	5	0	3 053.90	0	0	2 761	4	0.14
Mashonaland Central	Centenary/ Muzarabani	19	0	857.50	0	0	2 735	0	0
Mashonaland Central	Mbire	14	0	821.40	0	0	1 701	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland Central	Centenary/ Muzarabani	2	0	5 549.00	0	0	3 958	0	0
Mashonaland Central	Centenary/ Muzarabani	3	0	1 347.30	0	0	2 143	0	0
Mashonaland Central	Rushinga	12	0	1 388.50	0	0	3 387	0	0
Mashonaland Central	Rushinga	19	0	353.60	0	0	2 975	0	0
Mashonaland Central	Rushinga	5	0	314.80	0	0	1 179	0	0
Mashonaland Central	Rushinga	4	0	803.80	0	0	3 453	0	0
Mashonaland West	Norton	12	0	111.10	0	0	5 741	0	0
Mashonaland West	Sanyati	2	0	6 053.70	0	0	9 005	0	0
Mashonaland West	Chegutu	21	0	3 977.70	0	0	10 519	0	0
Mashonaland West	Norton	10	0	0.70	0	0	2 086	0	0
Mashonaland East	Murehwa	30	0	297.80	0	0	12 977	0	0
Mashonaland East	Murehwa	8	0	1 909.50	0	0	11 554	0	0
Mashonaland East	Goromonzi	22	0	5 298.00	0	0	15 046	0	0
Mashonaland East	Goromonzi	24	0	2 141.30	0	0	20 527	0	0
Mashonaland East	Seke	1	0	1 253.00	0	0	29 366	0	0
Mashonaland East	Goromonzi	23	0	1 681.30	0	0	13 922	0	0
Mashonaland East	Goromonzi	21	0	2 412.30	0	0	8 368	0	0
Mashonaland East	Seke	2	0	1 141.80	0	0	2 901	0	0
Mashonaland East	Ruwa	1	0	19.20	0	0	2 157	0	0
Mashonaland East	Ruwa	2	0	38.00	0	0	2 098	0	0
Mashonaland East	Seke	7	0	1 228.60	0	0	2 236	0	0
Mashonaland East	Seke	3	0	575.10	0	0	3 035	0	0
Mashonaland East	Seke	4	0	2 001.40	0	0	5 361	0	0
Mashonaland East	Ruwa	7	0	252.30	0	0	23 425	0	0
Mashonaland East	Seke	17	0	1 156.60	0	0	826	0	0
Harare	Epworth	4	0	141.60	0	0	48 223	0	0
Harare	Harare	11	0	21.00	0	0	25 476	0	0
Harare	Harare	13	0	371.50	0	0	32 808	0	0
Harare	Epworth	2	0	7.70	0	0	8 573	0	0
Harare	Chitungwiza	7	0	0	0	0	2 906	0	0
Harare	Chitungwiza	9	0	1.80	0	0	7 100	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Manicaland	Makoni	1	0	1 035.40	0	0	6 583	0	0
Manicaland	Makoni	5	0	3 831.90	0	0	7 485	0	0
Masvingo	Masvingo	34	7.50	5 419.30	0.10	0	4 880	0	0
Masvingo	Chivi	22	0	1 932.60	0	0	7 579	0	0
Masvingo	Chivi	20	0	1 995.80	0	0	7 472	0	0
Masvingo	Chivi	23	0	1 263.30	0	0	6 975	0	0
Masvingo	Mwenezi	2	0	1 664.30	0	0	3 610	0	0
Masvingo	Mwenezi	6	0	2 892.30	0	0	2 726	0	0
Masvingo	Mwenezi	5	26.60	5 013.80	0.80	0	8 540	0	0
Masvingo	Mwenezi	1	0.70	1 019.40	0	0	3 928	0	0
Masvingo	Mwenezi	9	77.80	6 511.70	0.70	0	5 631	0	0
Masvingo	Mwenezi	11	0	4 912.20	0	0	3 777	0	0
Masvingo	Mwenezi	17	26.30	23 641.20	0.50	0	11 919	0	0
Masvingo	Mwenezi	3	0	4 053.10	0	0	7 588	0	0
Masvingo	Mwenezi	7	0	4 843.60	0	0	6 023	0	0
Masvingo	Chivi	19	0	2 918.00	0	0	6 757	0	0
Masvingo	Mwenezi	8	0	4 978.40	0	0	5 979	0	0
Masvingo	Mwenezi	10	57.60	4 772.40	0.80	0	6 256	0	0
Masvingo	Chivi	21	0	2 500.90	0	0	6 657	0	0
Masvingo	Masvingo	26	0	1 080.70	0	0	3 106	0	0
Masvingo	Chiredzi	17	13.30	20 008.60	0	0	18 376	0	0
Masvingo	Chiredzi	30	105.80	3 086.30	5	0.20	8 377	3	0.04
Masvingo	Chiredzi	27	78	5 369.00	0	0	8 369	0	0
Manicaland	Chipinge	22	0.90	8 514.80	0	0	7 719	0	0
Manicaland	Chipinge	24	23.10	7 914.50	0.20	0	9 421	0	0
Masvingo	Chiredzi	18	0	2 112.60	0	0	11 715	0	0
Masvingo	Chiredzi	28	38.60	6 630.10	3.20	0	11 928	0	0
Masvingo	Chiredzi	16	0	26 978.90	0	0	15 020	0	0
Masvingo	Chiredzi	19	0	1 874.60	0	0	21 583	1	0
Masvingo	Chiredzi	6	112	4 336.90	0.50	0	4 229	0	0
Masvingo	Chiredzi	9	0	3 261.80	0	0	3 211	1	0.03

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Masvingo	Chiredzi	31	50.10	5 087.40	0	0	8 129	1	0.01
Masvingo	Masvingo	29	0	2 671.50	0	0	2 313	0	0
Masvingo	Bikita	3	0	3 823.20	0	0	6 022	0	0
Masvingo	Bikita	1	0	1 171.70	0	0	3 902	0	0
Masvingo	Zaka	31	0	1 960.30	0	0	5 894	0	0
Masvingo	Chiredzi	23	0	4 964.90	0	0	3 276	1	0.03
Masvingo	Masvingo	27	0	605.70	0	0	756	0	0
Manicaland	Nyanga	23	0	2 608.90	0	0	6 111	2	0.03
Masvingo	Zaka	32	0	1 475.10	0	0	2 155	0	0
Masvingo	Chiredzi	29	25.80	5 246.60	0	0	9 155	0	0
Masvingo	Chiredzi Urban	2	0	10.80	0	0	7 891	0	0
Masvingo	Chiredzi Urban	1	0	0.30	0	0	4 185	0	0
Masvingo	Zaka	27	39.50	1 304.60	0	0	7 522	0	0
Masvingo	Chiredzi	22	313.80	10 516.70	19.90	0.20	53 035	1	0
Manicaland	Chipinge	29	0	9 068.70	0	0	5 887	0	0
Manicaland	Makoni	3	0	4 961.90	0	0	8 710	0	0
Manicaland	Makoni	7	0	6 944.60	0	0	10 187	0	0
Masvingo	Chiredzi	3	0	1 407.50	0	0	1 332	0	0
Manicaland	Chipinge	26	23.80	13 532.20	0.10	0	23 592	1	0
Manicaland	Chipinge	27	2	6 669.00	0	0	5 348	0	0
Manicaland	Makoni	9	0	7 896.20	0	0	8 973	1	0.01
Manicaland	Makoni	8	0	7 584.60	0	0	10 986	0	0
Masvingo	Chiredzi	2	162.60	1 478.40	49.80	3.40	2 311	0	0
Mashonaland West	Hurungwe	2	0	8 184.40	0	0	10 500	0	0
Mashonaland West	Hurungwe	12	0	7 548.20	0	0	5 150	0	0
Masvingo	Chiredzi	1	96.80	1 792.80	11.80	0.70	3 230	0	0
Masvingo	Chiredzi	25	537.90	1 257.70	439.10	34.90	1 029	0	0
Masvingo	Chiredzi	4	12.90	2 496.70	0.10	0	1 651	0	0
Masvingo	Chiredzi	5	0	1 812.40	0	0	907	0	0
Manicaland	Chipinge	15	0	1 012.80	0	0	4 834	0	0
Mashonaland West	Hurungwe	14	0	10 699.40	0	0	13 048	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Kariba	12	0	1 929.30	0	0	17 151	0	0
Mashonaland West	Hurungwe	17	0	3 672.60	0	0	6 528	0	0
Mashonaland West	Kariba	10	0	553.70	0	0	1 227	0	0
Mashonaland West	Hurungwe	15	0	2 372.50	0	0	6 525	0	0
Mashonaland East	Hwedza	6	0	2 798.40	0	0	4 997	0	0
Mashonaland East	Chikomba	24	0	913.70	0	0	3 400	0	0
Mashonaland East	Chikomba	29	0	1 048.40	0	0	3 635	0	0
Mashonaland West	Hurungwe	10	0	2 550.40	0	0	5 630	0	0
Mashonaland West	Hurungwe	18	0	8 350.60	0	0	9 537	0	0
Mashonaland West	Hurungwe	11	13.30	7 342.30	1.50	0	13 036	0	0
Mashonaland West	Makonde	17	0	240.50	0	0	5 223	0	0
Mashonaland West	Hurungwe	19	0	8 451.30	0	0	8 838	0	0
Masvingo	Chivi	13	0	742.60	0	0	4 437	0	0
Mashonaland West	Hurungwe	6	0	3 802.30	0	0	13 597	0	0
Mashonaland West	Zvimba	15	0	7 938.70	0	0	22 066	0	0
Masvingo	Chivi	16	0	1 851.10	0	0	10 162	0	0
Masvingo	Masvingo	10	0	2 918.20	0	0	10 400	0	0
Masvingo	Chivi	10	0	1 016.90	0	0	5 331	0	0
Masvingo	Masvingo Urban	2	0	11.60	0	0	3 435	0	0
Masvingo	Masvingo	5	0	114.60	0	0	12 671	0	0
Masvingo	Chivi	5	0	980.10	0	0	5 937	0	0
Masvingo	Chivi	4	0	1 427.00	0	0	4 624	0	0
Masvingo	Masvingo	9	0	2 987.10	0	0	8 033	0	0
Masvingo	Chivi	7	0	1 373.00	0	0	4 786	0	0
Masvingo	Chivi	6	0	762.40	0	0	3 210	0	0
Masvingo	Chivi	9	0	910.50	0	0	5 118	0	0
Masvingo	Chivi	12	0	1 324.30	0	0	5 039	0	0
Masvingo	Chivi	11	0	1 431.70	0	0	5 338	0	0
Masvingo	Chivi	30	0	314.00	0	0	3 794	0	0
Masvingo	Chivi	3	0	984.30	0	0	4 245	0	0
Masvingo	Chivi	2	0	1 071.40	0	0	6 622	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Masvingo	Gutu	35	0	1 542.20	0	0	2 931	0	0
Masvingo	Gutu	38	0	723.90	0	0	1 376	0	0
Masvingo	Masvingo	4	74.60	511.50	0.30	0	4 814	0	0
Manicaland	Chimanimani	7	0	2 089.70	0	0	12 127	0	0
Manicaland	Chimanimani	17	0	150.10	0	0	3 286	0	0
Manicaland	Chipinge Urban	3	0	6.70	0	0	330	0	0
Manicaland	Chipinge Urban	4	0	12.20	0	0	466	0	0
Mashonaland Central	Guruve	13	0	7 612.60	0	0	17 641	0	0
Masvingo	Chivi	1	0	1 836.60	0	0	5 796	0	0
Masvingo	Gutu	22	0	2 009.30	0	0	2 407	0	0
Mashonaland Central	Guruve	5	0	2 028.70	0	0	1 642	0	0
Masvingo	Zaka	4	0	3 173.90	0	0	9 335	0	0
Masvingo	Zaka	5	0	2 155.00	0	0	9 037	0	0
Masvingo	Bikita	5	0	2 471.40	0	0	5 739	0	0
Masvingo	Zaka	10	0	2 746.80	0	0	7 619	0	0
Masvingo	Zaka	3	0	1 316.30	0	0	6 341	0	0
Masvingo	Zaka	7	0	846.40	0	0	5 136	0	0
Mashonaland Central	Guruve	6	13.70	981.00	1.60	0.20	2 757	0	0
Masvingo	Bikita	6	0	2 673.60	0	0	3 222	0	0
Masvingo	Gutu	40	0	1 361.30	0	0	1 764	0	0
Mashonaland Central	Guruve	10	0	1 670.60	0	0	3 343	0	0
Mashonaland Central	Guruve	11	0	2 640.50	0	0	4 336	0	0
Mashonaland Central	Guruve	8	0	1 764.00	0	0	2 789	0	0
Masvingo	Masvingo	17	0	2 634.00	0	0	4 345	0	0
Masvingo	Masvingo	20	0	1 269.50	0	0	2 763	0	0
Masvingo	Zaka	19	0	3 844.90	0	0	11 607	0	0
Masvingo	Zaka	22	0	2 345.90	0	0	4 004	0	0
Masvingo	Zaka	16	0	1 585.10	0	0	3 201	0	0
Masvingo	Zaka	13	0	3 378.90	0	0	6 110	0	0
Masvingo	Masvingo	18	0	3 375.60	0	0	3 011	0	0
Masvingo	Gutu	8	0	2 998.70	0	0	7 214	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Masvingo	Gutu	34	0	79.70	0	0	6 028	0	0
Masvingo	Gutu	14	0	2 110.60	0	0	3 870	0	0
Mashonaland Central	Gurube	9	0	1 299.70	0	0	3 281	0	0
Masvingo	Gutu	17	0	1 924.30	0	0	2 926	0	0
Masvingo	Gutu	36	0	3 617.20	0	0	4 964	0	0
Masvingo	Gutu	33	0	31.50	0	0	3 105	0	0
Masvingo	Gutu	18	0	3 326.80	0	0	7 616	0	0
Masvingo	Gutu	20	0	559.70	0	0	2 732	0	0
Masvingo	Gutu	37	0	881.60	0	0	4 881	0	0
Masvingo	Masvingo	2	0	1 726.90	0	0	3 101	0	0
Masvingo	Gutu	27	0	1 773.50	0	0	4 292	0	0
Masvingo	Gutu	24	0	1 725.90	0	0	4 714	0	0
Masvingo	Gutu	23	0	3 349.50	0	0	5 077	0	0
Masvingo	Bikita	31	0	2 362.00	0	0	5 420	0	0
Masvingo	Gutu	29	0	3 003.80	0	0	9 468	0	0
Masvingo	Bikita	15	0	1 734.00	0	0	4 431	0	0
Masvingo	Bikita	19	0	2 438.10	0	0	5 786	0	0
Masvingo	Bikita	23	0	164.80	0	0	807	0	0
Masvingo	Gutu	41	0	1 050.70	0	0	1 519	0	0
Masvingo	Masvingo	1	0	2 003.70	0	0	4 512	0	0
Manicaland	Chimanimani	15	0	178.50	0	0	3 848	0	0
Manicaland	Chimanimani	12	0	1 400.50	0	0	20 014	0	0
Manicaland	Chimanimani	8	0	675.00	0	0	9 925	0	0
Manicaland	Chimanimani	20	0	728.30	0	0	11 363	0	0
Masvingo	Masvingo	32	12.90	3 937.40	0.10	0	16 426	0	0
Masvingo	Masvingo	13	0	2 316.50	0	0	7 112	0	0
Masvingo	Bikita	27	39.80	636.80	0	0	29 531	0	0
Masvingo	Zaka	1	0	1 835.70	0	0	6 946	0	0
Masvingo	Zaka	14	0	3 263.30	0	0	4 924	0	0
Masvingo	Zaka	9	0	3 050.00	0	0	4 462	0	0
Masvingo	Zaka	12	0	1 984.00	0	0	4 306	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Masvingo	Zaka	11	0	1 841.20	0	0	3 994	0	0
Masvingo	Zaka	6	0	1 996.20	0	0	4 211	0	0
Masvingo	Zaka	33	0	3 094.40	0	0	4 768	0	0
Masvingo	Zaka	8	0	2 915.60	0	0	6 356	0	0
Masvingo	Gutu	21	0	2 333.30	0	0	4 739	0	0
Masvingo	Gutu	19	0	1 796.10	0	0	3 296	0	0
Masvingo	Gutu	42	0	494.40	0	0	1 719	0	0
Masvingo	Gutu	13	0	5 054.00	0	0	6 349	0	0
Manicaland	Chimanimani	13	0	1 395.70	0	0	7 046	0	0
Manicaland	Chimanimani	19	0	167.70	0	0	2 493	0	0
Manicaland	Buhera	29	0	5 435.20	0	0	9 889	0	0
Manicaland	Chipinge	7	179	1 947.10	50.30	2.60	14 572	0	0
Manicaland	Chipinge	6	0	5 564.40	0	0	34 873	0	0
Manicaland	Chipinge	2	0	843.50	0	0	4 143	0	0
Manicaland	Chimanimani	10	0	275.70	0	0	624	0	0
Manicaland	Chimanimani	21	0	77.90	0	0	1 397	0	0
Manicaland	Chimanimani	18	0	65.00	0	0	1 929	0	0
Manicaland	Chimanimani	22	0	85.70	0	0	1 687	0	0
Manicaland	Chipinge	9	0	749.70	0	0	2 790	0	0
Manicaland	Buhera	25	0	10 365.40	0	0	12 022	0	0
Manicaland	Chimanimani	4	0	475.30	0	0	6 196	0	0
Manicaland	Buhera	28	0	7 693.80	0	0	10 334	0	0
Manicaland	Chimanimani	5	0	424.60	0	0	10 020	0	0
Manicaland	Chipinge Urban	8	0	467.00	0	0	16 281	0	0
Manicaland	Chipinge Urban	1	0	21.00	0	0	1 241	0	0
Manicaland	Chipinge Urban	7	0	346.30	0	0	10 164	0	0
Manicaland	Chipinge	11	0	2 584.70	0	0	8 702	0	0
Manicaland	Chipinge	1	0	249.60	0	0	14 176	0	0
Manicaland	Chimanimani	16	0	1 585.50	0	0	18 328	0	0
Manicaland	Chimanimani	6	0	281.80	0	0	1 834	0	0
Manicaland	Chimanimani	3	0	400.40	0	0	4 644	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Manicaland	Chipinge	12	0	3 982.00	0	0	6 885	0	0
Manicaland	Chipinge	18	0	1 837.60	0	0	7 268	0	0
Manicaland	Chipinge	13	0	4 882.80	0	0	9 972	0	0
Manicaland	Chimanimani	11	0	1 166.10	0	0	4 923	0	0
Manicaland	Buhera	33	0	900.40	0	0	13 095	0	0
Manicaland	Chimanimani	9	0	115.80	0	0	1 596	0	0
Manicaland	Buhera	30	0	1 356.00	0	0	8 227	0	0
Manicaland	Chipinge	14	0	684.60	0	0	3 381	0	0
Manicaland	Chipinge Urban	6	0	21.90	0	0	793	0	0
Manicaland	Chimanimani	14	0	1 640.70	0	0	11 387	0	0
Manicaland	Chipinge Urban	5	0	7.40	0	0	427	0	0
Manicaland	Chipinge	5	0	8 329.80	0	0	36 926	1	0
Manicaland	Chipinge	4	0	289.10	0	0	9 421	0	0
Manicaland	Chipinge	3	0	1 196.10	0	0	7 408	1	0.01
Manicaland	Chipinge	8	0	3 482.30	0	0	19 642	0	0
Manicaland	Chimanimani	23	0	83.80	0	0	1 414	0	0
Manicaland	Chipinge Urban	2	0	18.50	0	0	1 515	0	0
Mashonaland West	Mhondoro0Ngezi	4	0	3 897.70	0	0	2 492	0	0
Mashonaland West	Mhondoro0Ngezi	3	0	1 258.50	0	0	1 732	0	0
Mashonaland West	Mhondoro0Ngezi	11	147.10	3 622.00	0.40	0	47 315	0	0
Mashonaland West	Mhondoro0Ngezi	5	0	3 111.10	0	0	4 340	0	0
Mashonaland West	Mhondoro0Ngezi	2	0	783.90	0	0	759	0	0
Mashonaland West	Mhondoro0Ngezi	8	0	639.30	0	0	2 072	0	0
Mashonaland West	Mhondoro0Ngezi	6	0	1 932.00	0	0	2 288	0	0
Mashonaland West	Mhondoro0Ngezi	7	0	241.60	0	0	707	0	0
Mashonaland East	Seke	21	52.40	835.30	0.40	0	1 396	0	0
Mashonaland West	Mhondoro0Ngezi	9	0	2 839.90	0	0	4 588	0	0
Mashonaland East	Chikomba	7	173.20	10 930.00	0	0	18 138	0	0
Mashonaland East	Chikomba	10	0	359.90	0	0	1 998	0	0
Mashonaland East	Chikomba	6	0	935.40	0	0	746	0	0
Masvingo	Gutu	10	0	4 297.00	0	0	5 579	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Manicaland	Buhera	6	0	3 929.60	0	0	12 691	0	0
Mashonaland East	Chikomba	9	0	423.80	0	0	6 635	0	0
Mashonaland East	Chikomba	4	0	3 528.60	0	0	4 680	0	0
Masvingo	Gutu	4	0	2 253.00	0	0	9 046	0	0
Manicaland	Mutare Urban	11	0	359.40	0	0	36 832	0	0
Manicaland	Mutare Urban	5	0	52.90	0	0	4 006	0	0
Manicaland	Mutare Urban	1	0	8.80	0	0	1 237	0	0
Masvingo	Gutu	2	0	1 269.60	0	0	2 514	0	0
Manicaland	Buhera	2	0	2 491.90	0	0	5 432	0	0
Manicaland	Buhera	4	0	1 611.60	0	0	6 148	0	0
Manicaland	Buhera	13	0	3 613.20	0	0	8 617	0	0
Manicaland	Buhera	31	0	2 424.10	0	0	5 333	0	0
Mashonaland East	Hwedza	5	0	1 488.30	0	0	4 504	0	0
Manicaland	Mutare Urban	16	0	107.60	0	0	10 451	0	0
Manicaland	Mutare Urban	14	0	33.00	0	0	4 154	0	0
Manicaland	Mutare	34	0	12 801.10	0	0	19 864	0	0
Manicaland	Makoni	11	0	10 486.50	0	0	26 323	0	0
Manicaland	Makoni	16	53.40	2 813.90	13.30	0.50	6 676	0	0
Manicaland	Makoni	30	0	3 335.30	0	0	3 327	0	0
Manicaland	Makoni	17	0	10 731.50	0	0	20 997	3	0.01
Manicaland	Makoni	23	0	3 475.30	0	0	4 367	7	0.16
Manicaland	Makoni	22	0	1 457.20	0	0	2 110	0	0
Manicaland	Mutasa	15	0	492.50	0	0	3 653	0	0
Manicaland	Mutasa	17	0	1 193.80	0	0	6 947	1	0.01
Mashonaland East	Chikomba	30	0	1 030.90	0	0	4 984	0	0
Mashonaland East	Chikomba	21	0	895.60	0	0	2 364	0	0
Mashonaland East	Chikomba	17	0	2 594.60	0	0	2 633	0	0
Mashonaland East	Chikomba	27	0	1 710.90	0	0	4 191	0	0
Manicaland	Buhera	8	0	1 907.20	0	0	7 199	0	0
Mashonaland East	Chikomba	18	0	870.40	0	0	2 394	0	0
Mashonaland East	Chikomba	16	0	3 215.00	0	0	5 726	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland East	Chikomba	20	0	1 293.10	0	0	4 003	0	0
Mashonaland East	Chikomba	26	0	1 282.90	0	0	3 512	0	0
Mashonaland East	Chikomba	19	0	1 656.10	0	0	2 365	0	0
Mashonaland East	Chikomba	14	0	4 064.80	0	0	7 117	0	0
Mashonaland East	Chikomba	12	0	76.60	0	0	750	0	0
Mashonaland East	Chikomba	11	0	34.50	0	0	642	0	0
Manicaland	Buhera	10	0	2 257.90	0	0	11 027	0	0
Manicaland	Buhera	3	0	1 548.00	0	0	3 255	0	0
Manicaland	Buhera	9	0	2 783.30	0	0	15 599	0	0
Manicaland	Buhera	1	0	1 784.80	0	0	4 866	0	0
Manicaland	Buhera	11	0	4 031.90	0	0	10 649	0	0
Manicaland	Buhera	5	0	1 719.60	0	0	11 213	0	0
Manicaland	Buhera	17	0	3 973.10	0	0	3 924	0	0
Manicaland	Buhera	16	0	3 984.50	0	0	8 675	0	0
Manicaland	Mutare	3	0	10 187.90	0	0	23 193	1	0
Manicaland	Mutare Urban	13	0	628.40	0	0	19 221	0	0
Manicaland	Buhera	14	0	4 182.80	0	0	12 671	0	0
Manicaland	Mutare	31	0	70.80	0	0	795	0	0
Manicaland	Mutare	2	0	7 319.30	0	0	13 712	0	0
Manicaland	Mutare Urban	12	0	97.90	0	0	36 758	0	0
Manicaland	Buhera	15	0	7 307.00	0	0	7 960	0	0
Manicaland	Buhera	7	0	1 888.00	0	0	6 606	0	0
Manicaland	Rusape	6	0	11.40	0	0	2 128	0	0
Manicaland	Mutasa	10	0	369.30	0	0	3 225	0	0
Manicaland	Mutasa	18	0	750.00	0	0	15 223	0	0
Manicaland	Makoni	18	0	3 386.50	0	0	2 600	0	0
Manicaland	Mutare	1	0	11 609.40	0	0	21 046	0	0
Manicaland	Mutasa	26	0	582.30	0	0	9 622	0	0
Manicaland	Mutasa	20	0	500.80	0	0	4 710	0	0
Manicaland	Mutasa	24	0	863.30	0	0	4 071	0	0
Manicaland	Mutasa	23	0	3 813.90	0	0	20 241	4	0.02

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Manicaland	Mutasa	21	0	286.10	0	0	7 087	0	0
Manicaland	Mutasa	25	0	2 426.60	0	0	14 104	6	0.04
Manicaland	Mutasa	22	0	583.40	0	0	14 164	0	0
Manicaland	Mutare	35	0	557.90	0	0	2 469	0	0
Manicaland	Mutare	5	0	353.70	0	0	1 004	0	0
Manicaland	Mutare Urban	15	0	283.00	0	0	6 522	0	0
Manicaland	Mutare	33	0	1 357.40	0	0	26 073	0	0
Manicaland	Mutare	10	0	1 890.90	0	0	7 402	0	0
Manicaland	Mutare	11	0	1 831.40	0	0	9 071	0	0
Manicaland	Mutare	12	0	905.60	0	0	5 624	0	0
Manicaland	Mutare	16	0	5 566.20	0	0	14 210	0	0
Manicaland	Mutare	23	0	2 569.40	0	0	5 489	0	0
Manicaland	Mutare	13	0	941.90	0	0	5 923	0	0
Manicaland	Mutare Urban	3	0	97.40	0	0	6 407	0	0
Manicaland	Mutare	20	0	707.60	0	0	5 453	0	0
Manicaland	Mutare	17	0	1 789.60	0	0	5 430	0	0
Manicaland	Mutare	18	0	1 185.60	0	0	5 013	0	0
Manicaland	Mutare	36	0	756.30	0	0	2 184	0	0
Manicaland	Mutare Urban	2	0	1.90	0	0	1 348	0	0
Manicaland	Mutare Urban	4	0	10.10	0	0	1 927	0	0
Manicaland	Mutare Urban	8	0	27.10	0	0	2 219	0	0
Manicaland	Mutare Urban	9	0	72.50	0	0	4 177	0	0
Manicaland	Mutare	26	0	441.40	0	0	1 464	0	0
Manicaland	Mutare Urban	18	0	124.30	0	0	6 149	0	0
Manicaland	Mutare	27	0	645.30	0	0	2 816	0	0
Manicaland	Mutare	4	0	1 024.60	0	0	3 921	0	0
Manicaland	Mutare Urban	10	0	151.40	0	0	25 778	2	0.01
Manicaland	Mutare Urban	19	0	230.30	0	0	24 898	0	0
Manicaland	Mutare	8	0	1 728.80	0	0	4 261	0	0
Manicaland	Mutare	32	0	147.50	0	0	7 511	0	0
Manicaland	Mutare	15	0	1 267.60	0	0	8 964	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Manicaland	Mutare	14	0	887.90	0	0	7 984	0	0
Manicaland	Mutare	21	0	378.40	0	0	2 349	0	0
Manicaland	Rusape	5	0	22.00	0	0	1 607	0	0
Manicaland	Rusape	2	0	7.60	0	0	474	0	0
Manicaland	Rusape	3	0	3.30	0	0	465	0	0
Manicaland	Makoni	29	0	1 606.00	0	0	3 522	0	0
Mashonaland West	Sanyati	12	0	2 436.90	0	0	4 963	0	0
Mashonaland West	Sanyati	10	0	1 527.10	0	0	4 388	0	0
Mashonaland West	Sanyati	7	0	1 479.00	0	0	11 205	0	0
Mashonaland West	Sanyati	8	0	442.00	0	0	2 396	0	0
Mashonaland West	Sanyati	6	0	2 637.30	0	0	7 417	0	0
Mashonaland West	Sanyati	9	0	900.40	0	0	2 231	0	0
Mashonaland West	Sanyati	3	59	14 943.00	0.70	0	36 996	0	0
Mashonaland West	Sanyati	5	0	9 966.20	0	0	9 638	0	0
Mashonaland West	Sanyati	11	0	836.90	0	0	4 789	0	0
Mashonaland East	Marondera Urban	1	0	2.30	0	0	866	0	0
Mashonaland East	Marondera Urban	2	0	1.70	0	0	1 228	0	0
Manicaland	Makoni	27	0	3 359.40	0	0	5 787	0	0
Mashonaland West	Norton	5	0	19.60	0	0	1 240	0	0
Mashonaland West	Norton	8	0	4.00	0	0	912	0	0
Mashonaland East	Murehwa	20	0	2 556.60	0	0	2 458	0	0
Mashonaland East	Mutoko	29	0	8 137.60	0	0	15 580	0	0
Manicaland	Makoni	35	0	8 339.20	0	0	9 955	0	0
Manicaland	Nyanga	6	0	837.70	0	0	3 655	0	0
Manicaland	Nyanga	10	0	753.40	0	0	4 780	0	0
Manicaland	Nyanga	7	0	1 048.40	0	0	7 236	0	0
Manicaland	Nyanga	9	0	1 452.50	0	0	7 335	0	0
Manicaland	Makoni	36	0	2 085.30	0	0	6 504	1	0.02
Manicaland	Nyanga	11	0	936.10	0	0	3 425	47	1.37
Manicaland	Nyanga	12	0	1 233.90	0	0	5 407	50	0.92
Manicaland	Nyanga	8	0	621.80	0	0	5 183	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Manicaland	Nyanga	20	0	3 423.60	0	0	16 658	0	0
Manicaland	Nyanga	16	0	1 566.60	0	0	2 001	0	0
Manicaland	Makoni	6	0	9 313.40	0	0	19 503	0	0
Manicaland	Nyanga	22	0	218.80	0	0	2 160	0	0
Manicaland	Nyanga	27	0	827.90	0	0	2 138	0	0
Manicaland	Nyanga	28	0	411.20	0	0	2 585	0	0
Manicaland	Mutasa	4	0	560.90	0	0	3 813	0	0
Manicaland	Mutasa	6	0	601.70	0	0	5 543	0	0
Manicaland	Mutasa	5	40	365.20	0	0	4 921	1	0.02
Manicaland	Mutasa	30	0	264.80	0	0	4 415	1	0.02
Manicaland	Nyanga	31	0	37.10	0	0	1 325	0	0
Manicaland	Makoni	10	0	6 231.10	0	0	6 770	1	0.01
Manicaland	Mutasa	28	0	167.00	0	0	1 137	0	0
Manicaland	Nyanga	21	0	1 062.30	0	0	3 874	4	0.10
Manicaland	Mutasa	31	0	276.40	0	0	1 796	0	0
Manicaland	Nyanga	25	0	1 131.50	0	0	13 491	1	0.01
Manicaland	Mutasa	7	0	346.00	0	0	5 787	0	0
Manicaland	Nyanga	29	0	154.60	0	0	3 216	0	0
Manicaland	Nyanga	24	0	996.80	0	0	2 877	0	0
Mashonaland West	Kariba	7	0	347.70	0	0	3 709	0	0
Mashonaland West	Kariba	6	0	767.20	0	0	2 537	0	0
Mashonaland East	Mutoko	7	0	519.80	0	0	4 088	0	0
Mashonaland East	Mutoko	2	0	751.70	0	0	5 709	0	0
Mashonaland East	Mudzi	15	0	2 934.40	0	0	7 718	0	0
Mashonaland East	Mudzi	18	0	437.70	0	0	3 904	0	0
Mashonaland East	Mudzi	13	0	901.40	0	0	3 143	0	0
Mashonaland East	Mutoko	9	0	415.90	0	0	1 800	0	0
Mashonaland East	Mutoko	6	0	325.00	0	0	2 166	0	0
Mashonaland Central	Shamva	13	0	138.30	0	0	2 199	0	0
Mashonaland East	Uzumba Maramba Pfungwe	11	0	1 089.20	0	0	9 565	0	0
Mashonaland Central	Bindura	20	0	3 795.30	0	0	9 693	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland Central	Shamva	12	0	400.40	0	0	3 097	0	0
Mashonaland Central	Shamva	27	0	1 176.60	0	0	4 345	0	0
Mashonaland Central	Mazowe	14	62.70	5 833.30	15.60	0.30	7 940	0	0
Mashonaland Central	Mazowe	18	0	4 043.80	0	0	6 085	0	0
Mashonaland Central	Mazowe	32	0	3 347.60	0	0	3 260	0	0
Mashonaland East	Mutoko	27	0	6 657.90	0	0	11 318	0	0
Mashonaland East	Mutoko	20	0	201.30	0	0	12 645	0	0
Mashonaland East	Mutoko	21	0	473.10	0	0	4 102	0	0
Mashonaland Central	Bindura	21	0	5 185.50	0	0	21 187	0	0
Mashonaland Central	Bindura	19	0	4 543.70	0	0	5 549	0	0
Mashonaland Central	Mazowe	15	0	197.50	0	0	1 682	0	0
Mashonaland Central	Bindura	7	0	4 439.00	0	0	13 608	0	0
Mashonaland Central	Bindura	10	0	701.20	0	0	7 290	0	0
Mashonaland Central	Bindura Urban	1	0	41.50	0	0	9 588	0	0
Mashonaland Central	Shamva	29	0	907.60	0	0	11 014	0	0
Mashonaland Central	Shamva	22	0	30.00	0	0	2 004	0	0
Mashonaland Central	Bindura Urban	2	0	44.90	0	0	5 957	0	0
Mashonaland Central	Bindura	6	0	2 685.10	0	0	18 774	0	0
Mashonaland West	Norton	7	0	2.90	0	0	716	0	0
Mashonaland West	Norton	13	0	339.40	0	0	5 466	0	0
Mashonaland West	Norton	9	0	0	0	0	836	0	0
Mashonaland West	Kadoma Urban	16	0	1 947.30	0	0	26 708	0	0
Mashonaland West	Makonde	12	0	1 665.90	0	0	1 566	0	0
Mashonaland West	Zvimba	12	0	1 700.20	0	0	1 785	0	0
Mashonaland West	Makonde	14	0	1 110.10	0	0	6 645	0	0
Mashonaland West	Zvimba	10	0	1 705.30	0	0	1 432	0	0
Mashonaland West	Zvimba	11	0	2 236.40	0	0	1 549	0	0
Mashonaland West	Sanyati	18	0	759.50	0	0	2 196	0	0
Mashonaland West	Makonde	15	0	368.70	0	0	7 022	0	0
Mashonaland West	Sanyati	15	0	376.20	0	0	1 942	0	0
Mashonaland West	Sanyati	17	0	1 330.40	0	0	2 906	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Sanyati	14	0	861.30	0	0	1 789	0	0
Mashonaland West	Sanyati	13	0	398.80	0	0	1 172	0	0
Mashonaland West	Zvimba	27	0	2 278.80	0	0	3 663	0	0
Mashonaland West	Norton	1	0	202.30	0	0	7 130	0	0
Mashonaland West	Norton	3	0	105.80	0	0	10 564	0	0
Mashonaland West	Norton	11	0	56.70	0	0	2 470	0	0
Mashonaland West	Norton	2	0	170.50	0	0	7 686	0	0
Mashonaland West	Chegutu	17	0	403.30	0	0	1 589	0	0
Mashonaland West	Chegutu	22	73.30	3 884.60	2.60	0.10	15 548	0	0
Mashonaland West	Chegutu	11	26.20	4 247.60	0.70	0	15 584	0	0
Mashonaland West	Kadoma Urban	1	0	410.80	0	0	4 435	0	0
Mashonaland West	Zvimba	21	142.20	6 622.20	9	0.10	17 843	0	0
Mashonaland West	Zvimba	6	0	1 379.10	0	0	4 218	0	0
Mashonaland West	Zvimba	4	0	1 057.50	0	0	1 331	0	0
Mashonaland West	Chegutu	24	0	4 463.00	0	0	12 457	0	0
Mashonaland West	Chegutu	23	41.70	2 750.30	0	0	8 877	0	0
Mashonaland West	Chegutu	9	0	938.30	0	0	3 454	0	0
Mashonaland West	Chegutu	10	0	1 900.30	0	0	4 392	0	0
Mashonaland West	Chegutu	27	0	387.60	0	0	2 421	0	0
Mashonaland West	Chegutu	4	0	1 754.60	0	0	5 317	0	0
Mashonaland West	Chegutu	12	26.60	4 697.70	0	0	7 307	0	0
Mashonaland West	Chegutu	29	0	4 097.90	0	0	7 500	0	0
Mashonaland West	Chegutu	3	0	1 101.70	0	0	3 631	0	0
Mashonaland East	Seke	11	0	731.70	0	0	1 387	0	0
Mashonaland West	Chegutu	8	0	1 381.60	0	0	3 632	0	0
Mashonaland West	Chegutu	7	0	2 072.70	0	0	2 446	0	0
Mashonaland West	Chegutu	5	0	1 365.60	0	0	2 533	0	0
Mashonaland West	Mhondoro0Ngezi	14	77.80	6 520.80	0.10	0	16 240	0	0
Mashonaland West	Mhondoro0Ngezi	13	0	5 032.40	0	0	23 353	0	0
Mashonaland West	Zvimba	1	0	1 605.80	0	0	2 863	0	0
Mashonaland West	Zvimba	8	0	2 155.60	0	0	1 765	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Chegutu	25	52.80	2 678.90	0.50	0	3 169	0	0
Mashonaland West	Zvimba	9	0	1 830.80	0	0	2 013	0	0
Mashonaland West	Zvimba	28	0	416.50	0	0	991	0	0
Mashonaland West	Chegutu Urban	12	0	360.50	0	0	14 159	0	0
Mashonaland West	Zvimba	29	0	988.60	0	0	1 813	0	0
Mashonaland West	Chegutu	20	0	2 724.00	0	0	5 267	0	0
Mashonaland West	Chegutu	28	0	2 224.30	0	0	7 569	0	0
Mashonaland West	Chegutu Urban	1	0	221.30	0	0	15 355	0	0
Mashonaland West	Chegutu Urban	10	0	138.70	0	0	5 565	0	0
Mashonaland West	Chegutu Urban	4	0	0.60	0	0	1 245	0	0
Mashonaland West	Chegutu	19	0	592.20	0	0	2 400	0	0
Mashonaland West	Zvimba	2	0	374.40	0	0	1 304	0	0
Mashonaland West	Zvimba	7	0	2 601.00	0	0	3 306	0	0
Mashonaland West	Zvimba	3	0	1 204.20	0	0	3 489	0	0
Mashonaland West	Zvimba	5	0	1 121.10	0	0	2 077	0	0
Mashonaland West	Chegutu Urban	7	0	175.10	0	0	4 443	0	0
Mashonaland West	Chegutu Urban	9	0	11.60	0	0	1 484	0	0
Mashonaland West	Chegutu Urban	6	0	1.90	0	0	1 531	0	0
Mashonaland West	Zvimba	26	0	11 586.60	0	0	23 995	0	0
Mashonaland West	Chegutu	14	27.60	3 206.70	3.50	0.10	9 458	0	0
Mashonaland West	Chegutu Urban	5	0	2.10	0	0	760	0	0
Mashonaland West	Chegutu Urban	8	0	0	0	0	774	0	0
Mashonaland West	Chegutu Urban	11	0	9.70	0	0	3 379	0	0
Mashonaland West	Chegutu	13	12.90	2 445.30	0.30	0	19 267	0	0
Mashonaland West	Chegutu Urban	2	0	51.80	0	0	4 379	0	0
Mashonaland West	Chegutu Urban	3	0	408.60	0	0	9 098	0	0
Mashonaland West	Kadoma Urban	14	0	279.00	0	0	3 792	0	0
Mashonaland West	Kadoma Urban	9	0	666.20	0	0	18 433	0	0
Mashonaland West	Kadoma Urban	7	0	11.80	0	0	1 476	0	0
Mashonaland West	Chegutu	16	0	689.20	0	0	2 343	0	0
Mashonaland West	Kadoma Urban	3	0	633.60	0	0	6 980	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Kadoma Urban	12	0	293.30	0	0	11 066	0	0
Mashonaland West	Chegutu	18	0	641.60	0	0	1 100	0	0
Mashonaland West	Kadoma Urban	10	0	1 203.80	0	0	20 930	0	0
Mashonaland West	Kadoma Urban	13	0	363.10	0	0	2 208	0	0
Mashonaland West	Kadoma Urban	8	0	53.20	0	0	1 508	0	0
Mashonaland West	Kadoma Urban	5	0	1.70	0	0	1 010	0	0
Mashonaland West	Kadoma Urban	2	0	5.90	0	0	1 433	0	0
Mashonaland West	Kadoma Urban	6	0	4.80	0	0	1 274	0	0
Mashonaland West	Kadoma Urban	4	0	0.10	0	0	437	0	0
Mashonaland West	Norton	6	0	242.10	0	0	4 792	0	0
Mashonaland West	Norton	4	0	885.80	0	0	27 812	0	0
Mashonaland East	Murehwa	9	0	459.10	0	0	5 575	0	0
Mashonaland East	Murehwa	11	0	1 316.20	0	0	10 387	0	0
Mashonaland East	Goromonzi	7	0	2 664.50	0	0	9 634	0	0
Mashonaland East	Murehwa	16	0	983.90	0	0	12 874	0	0
Mashonaland East	Goromonzi	9	27.30	4 303.20	2.40	0.10	17 425	0	0
Mashonaland East	Goromonzi	12	0	1 366.40	0	0	9 560	0	0
Mashonaland East	Goromonzi	18	0	1 652.40	0	0	3 771	0	0
Mashonaland East	Goromonzi	17	0	3 879.20	0	0	15 236	0	0
Mashonaland East	Murehwa	14	0	1 425.00	0	0	3 690	0	0
Mashonaland East	Murehwa	15	0	1 111.10	0	0	3 219	0	0
Mashonaland East	Murehwa	28	0	899.00	0	0	3 916	0	0
Mashonaland East	Goromonzi	8	0	3 884.20	0	0	13 753	0	0
Mashonaland East	Goromonzi	13	0	2 843.50	0	0	9 096	0	0
Mashonaland East	Murehwa	13	0	698.20	0	0	5 214	0	0
Mashonaland East	Goromonzi	16	0	1 700.80	0	0	8 303	0	0
Mashonaland East	Goromonzi	14	0	2 381.90	0	0	17 961	0	0
Mashonaland East	Murehwa	27	0	2 286.60	0	0	7 483	0	0
Mashonaland East	Goromonzi	25	0	1 832.60	0	0	34 586	0	0
Mashonaland East	Murehwa	25	0	1 551.50	0	0	3 410	0	0
Mashonaland East	Murehwa	26	0	1 639.40	0	0	3 495	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland East	Goromonzi	19	0	282.70	0	0	583	0	0
Mashonaland East	Marondera	3	0	6 147.10	0	0	12 064	0	0
Mashonaland East	Marondera	1	0	3 345.60	0	0	9 559	0	0
Mashonaland East	Goromonzi	20	0	2 283.80	0	0	7 854	0	0
Mashonaland East	Murehwa	29	0	282.60	0	0	9 381	0	0
Mashonaland East	Marondera	14	0	1 355.90	0	0	3 051	0	0
Mashonaland East	Seke	16	12.50	815.50	5.10	0.60	1 708	0	0
Mashonaland East	Marondera	15	0	927.40	0	0	2 273	0	0
Mashonaland East	Marondera	16	0	867.80	0	0	3 207	0	0
Mashonaland East	Marondera	17	0	1 144.30	0	0	1 345	0	0
Mashonaland East	Marondera	22	126.60	2 777.40	19.90	0.70	5 165	0	0
Mashonaland East	Marondera	21	171.40	4 370.40	32.40	0.70	5 924	0	0
Mashonaland East	Marondera Urban	9	0	57.70	0	0	2 328	0	0
Mashonaland East	Marondera Urban	12	0	70.80	0	0	6 412	0	0
Mashonaland East	Marondera	23	26.90	6 054.90	2	0	16 518	0	0
Mashonaland East	Marondera Urban	11	0	621.80	0	0	28 233	0	0
Mashonaland East	Ruwa	9	0	448.50	0	0	23 901	0	0
Mashonaland East	Marondera	2	0	2 544.10	0	0	7 644	0	0
Mashonaland East	Ruwa	5	0	94.30	0	0	2 728	0	0
Mashonaland East	Ruwa	3	0	3.20	0	0	1 440	0	0
Mashonaland East	Ruwa	4	0	0.20	0	0	538	0	0
Mashonaland East	Marondera	4	0	2 974.80	0	0	15 645	0	0
Mashonaland East	Ruwa	6	0	10.30	0	0	888	0	0
Mashonaland East	Marondera Urban	4	0	57.90	0	0	4 484	0	0
Mashonaland East	Marondera Urban	5	0	0.90	0	0	736	0	0
Mashonaland East	Seke	5	0	292.60	0	0	985	0	0
Mashonaland East	Seke	6	0	768.80	0	0	1 308	0	0
Mashonaland East	Marondera	18	0	1 032.60	0	0	1 292	0	0
Mashonaland East	Marondera Urban	7	0	3.40	0	0	1 591	0	0
Mashonaland East	Marondera	13	0	618.50	0	0	829	0	0
Mashonaland East	Marondera Urban	3	0	5.70	0	0	2 969	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland East	Marondera Urban	10	0	337.00	0	0	17 109	0	0
Mashonaland East	Marondera	6	80.10	5 633.80	11.60	0.20	12 012	0	0
Mashonaland East	Marondera	11	0	1 064.80	0	0	2 682	0	0
Harare	Harare	18	0	563.50	0	0	174 321	0	0
Harare	Chitungwiza	25	0	27.10	0	0	31 069	0	0
Harare	Chitungwiza	21	0	5.40	0	0	20 320	0	0
Harare	Harare	33	0	160.30	0	0	17 183	0	0
Harare	Harare	44	0	139.20	0	0	4 856	0	0
Harare	Harare	28	0	25.90	0	0	9 909	0	0
Harare	Chitungwiza	4	0	22.80	0	0	12 901	0	0
Harare	Harare	36	0	67.50	0	0	6 877	0	0
Harare	Harare	35	0	38.80	0	0	11 319	0	0
Mashonaland Central	Bindura	18	0	443.40	0	0	2 871	0	0
Mashonaland Central	Mazowe	20	0	7 035.70	0	0	29 259	0	0
Harare	Harare	42	0	913.00	0	0	32 242	0	0
Harare	Harare	41	0	1 899.20	0	0	105 795	0	0
Mashonaland West	Zvimba	24	0	3 494.40	0	0	15 446	0	0
Harare	Harare	17	0	468.60	0	0	99 241	0	0
Mashonaland East	Seke	9	0.70	8 508.70	0.60	0	26 385	0	0
Harare	Harare	30	0	29.70	0	0	14 517	0	0
Harare	Harare	32	0	71.70	0	0	7 330	0	0
Harare	Harare	8	0	244.30	0	0	91 071	0	0
Harare	Harare	7	0	77.50	0	0	59 275	0	0
Harare	Harare	34	0	256.30	0	0	12 525	0	0
Harare	Harare	26	0	54.50	0	0	24 149	0	0
Harare	Harare	43	0	279.00	0	0	25 939	0	0
Harare	Harare	16	0	585.40	0	0	78 181	0	0
Harare	Harare	40	0	719.40	0	0	20 016	0	0
Harare	Harare	39	0	51.70	0	0	6 913	0	0
Harare	Harare	45	0	109.90	0	0	12 137	0	0
Harare	Harare	37	0	397.00	0	0	26 711	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Harare	Epworth	5	0	20.30	0	0	18 165	0	0
Harare	Epworth	3	0	70.20	0	0	17 697	0	0
Harare	Harare	15	0	386.80	0	0	51 193	0	0
Harare	Harare	38	0	102.20	0	0	11 278	0	0
Harare	Harare	24	0	35.80	0	0	14 390	0	0
Harare	Harare	25	0	13.50	0	0	9 316	0	0
Harare	Harare	31	0	23.60	0	0	6 287	0	0
Harare	Harare	27	0	38.20	0	0	14 125	0	0
Harare	Harare	29	0	4.60	0	0	3 515	0	0
Harare	Harare	3	0	3.50	0	0	3 443	0	0
Harare	Harare	12	0	2.20	0	0	5 959	0	0
Harare	Harare	23	0	429.80	0	0	91 923	0	0
Manicaland	Nyanga	18	0	834.50	0	0	1 488	0	0
Manicaland	Nyanga	17	0	902.30	0	0	1 667	0	0
Harare	Harare	2	0	196.60	0	0	71 317	0	0
Harare	Harare	5	0	287.30	0	0	61 368	0	0
Harare	Harare	14	0	97.20	0	0	16 742	0	0
Harare	Harare	6	0	4.60	0	0	29 509	0	0
Harare	Harare	10	0	76.40	0	0	19 702	0	0
Harare	Harare	4	0	7.50	0	0	4 128	0	0
Harare	Harare	19	0	11.30	0	0	4 884	0	0
Harare	Epworth	6	0	180.20	0	0	48 511	0	0
Harare	Epworth	1	0	93.40	0	0	34 200	0	0
Harare	Chitungwiza	5	0	1.70	0	0	2 216	0	0
Harare	Chitungwiza	3	0	8.40	0	0	6 916	0	0
Harare	Chitungwiza	2	0	6.70	0	0	9 083	0	0
Harare	Chitungwiza	1	0	12.60	0	0	5 022	0	0
Harare	Chitungwiza	8	0	1.10	0	0	5 729	0	0
Harare	Chitungwiza	10	0	43.60	0	0	13 296	0	0
Harare	Chitungwiza	11	0	0.80	0	0	7 117	0	0
Harare	Chitungwiza	13	0	29.90	0	0	13 546	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Harare	Chitungwiza	14	0	14.30	0	0	16 411	0	0
Harare	Chitungwiza	15	0	29.40	0	0	17 837	0	0
Harare	Chitungwiza	16	0	18.40	0	0	16 703	0	0
Harare	Chitungwiza	19	0	12.20	0	0	15 724	0	0
Harare	Chitungwiza	20	0	1.90	0	0	5 846	0	0
Harare	Chitungwiza	17	0	16.50	0	0	13 768	0	0
Manicaland	Nyanga	30	0	1 401.30	0	0	3 229	0	0
Mashonaland West	Kariba	4	5	1 424.90	0	0	1 882	0	0
Manicaland	Mutasa	2	0	57.60	0	0	4 454	0	0
Manicaland	Mutasa	1	0	380.00	0	0	4 500	0	0
Manicaland	Mutasa	3	0	247.80	0	0	3 986	0	0
Manicaland	Mutasa	29	0	539.80	0	0	832	0	0
Mashonaland West	Hurungwe	26	0	1 263.80	0	0	2 671	0	0
Mashonaland West	Zvimba	34	12.90	4 025.60	0.10	0	6 135	0	0
Mashonaland West	Zvimba	32	0	8 029.90	0	0	16 990	0	0
Mashonaland West	Karoi	7	0	122.50	0	0	8 453	0	0
Mashonaland West	Karoi	5	0	2.30	0	0	1 082	0	0
Mashonaland West	Karoi	3	0	0.20	0	0	434	0	0
Mashonaland West	Karoi	2	0	4.20	0	0	319	0	0
Mashonaland West	Karoi	6	0	0.20	0	0	326	0	0
Mashonaland West	Karoi	4	0	2.70	0	0	530	0	0
Mashonaland West	Karoi	1	0	6.30	0	0	989	0	0
Mashonaland West	Hurungwe	23	0	2 805.50	0	0	4 077	0	0
Mashonaland West	Hurungwe	16	0	5 686.00	0	0	9 854	0	0
Mashonaland West	Hurungwe	24	0	4 468.80	0	0	8 994	0	0
Mashonaland West	Hurungwe	25	0	6 863.90	0	0	9 803	0	0
Mashonaland West	Kariba	9	345.20	4 198.10	7.60	0.20	18 221	0	0
Mashonaland West	Kariba	2	0	29.20	0	0	607	0	0
Mashonaland West	Makonde	5	55.90	9 807.30	6.40	0.10	13 005	0	0
Mashonaland West	Makonde	7	0	498.10	0	0	1 597	0	0
Mashonaland West	Zvimba	14	27.20	7 004.00	7.30	0.10	8 888	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Zvimba	13	39.60	14 266.60	9.40	0.10	10 476	0	0
Mashonaland West	Zvimba	16	0	128.30	0	0	329	0	0
Mashonaland East	Uzumba Maramba Pfungwe	12	0	1 450.60	0	0	6 538	0	0
Mashonaland East	Uzumba Maramba Pfungwe	14	0	1 215.50	0	0	10 478	0	0
Mashonaland Central	Shamva	21	0	1 779.90	0	0	11 858	0	0
Mashonaland East	Uzumba Maramba Pfungwe	15	0	1 496.90	0	0	8 032	0	0
Mashonaland East	Murehwa	1	0	1 010.40	0	0	2 467	0	0
Mashonaland Central	Bindura Urban	10	0	1.60	0	0	1 350	0	0
Mashonaland Central	Bindura Urban	9	0	21.40	0	0	3 129	0	0
Mashonaland East	Murehwa	2	0	739.50	0	0	1 507	0	0
Mashonaland East	Uzumba Maramba Pfungwe	8	0	1 117.30	0	0	10 614	0	0
Mashonaland East	Uzumba Maramba Pfungwe	7	0	192.20	0	0	5 121	0	0
Mashonaland East	Uzumba Maramba Pfungwe	9	0	1 153.80	0	0	7 391	0	0
Mashonaland East	Uzumba Maramba Pfungwe	6	0	531.60	0	0	9 102	0	0
Mashonaland Central	Mount Darwin	13	0	993.50	0	0	7 631	0	0
Mashonaland Central	Mount Darwin	14	0	2 706.90	0	0	10 035	0	0
Mashonaland Central	Mount Darwin	20	0	1 462.30	0	0	11 237	0	0
Mashonaland Central	Mazowe	6	0	2 160.70	0	0	1 940	0	0
Mashonaland Central	Mazowe	7	25.40	2 395.10	2.40	0.10	2 105	0	0
Mashonaland Central	Mount Darwin	29	0	645.80	0	0	4 611	0	0
Mashonaland Central	Mount Darwin	27	0	824.20	0	0	9 462	0	0
Mashonaland Central	Mount Darwin	24	0	1 263.60	0	0	6 246	0	0
Mashonaland Central	Mount Darwin	26	0	68.80	0	0	5 229	0	0
Mashonaland Central	Mount Darwin	25	0	513.60	0	0	4 776	0	0
Mashonaland Central	Mount Darwin	28	0	242.90	0	0	5 229	0	0
Mashonaland Central	Mount Darwin	21	0	179.00	0	0	5 318	0	0
Mashonaland Central	Mount Darwin	23	0	405.50	0	0	6 735	0	0
Mashonaland Central	Mount Darwin	16	0	577.80	0	0	3 965	0	0
Mashonaland Central	Centenary/ Muzarabani	13	0	1 800.20	0	0	9 916	0	0
Mashonaland Central	Centenary/ Muzarabani	14	0	3 944.20	0	0	10 338	0	0
Mashonaland Central	Mount Darwin	39	0	1 772.30	0	0	3 945	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland Central	Centenary/ Muzarabani	28	0	3 457.90	0	0	9 900	0	0
Mashonaland Central	Mazowe	1	0	1 518.10	0	0	3 143	0	0
Mashonaland Central	Mazowe	3	15.90	1 651.40	0.10	0	2 752	0	0
Mashonaland Central	Mazowe	2	0	1 138.50	0	0	2 559	0	0
Mashonaland Central	Centenary/ Muzarabani	22	0	859.00	0	0	2 067	0	0
Mashonaland Central	Bindura Urban	8	0	30.00	0	0	1 856	0	0
Mashonaland Central	Mazowe	16	0	5 871.80	0	0	15 924	0	0
Mashonaland Central	Shamva	3	0	937.40	0	0	3 121	0	0
Mashonaland Central	Shamva	2	0	330.10	0	0	1 011	0	0
Mashonaland Central	Shamva	4	0	584.50	0	0	1 255	0	0
Mashonaland Central	Mount Darwin	40	0	1 973.40	0	0	8 459	0	0
Mashonaland Central	Mazowe	4	0	1 691.00	0	0	2 185	0	0
Mashonaland Central	Mazowe	5	73.10	2 407.30	17.30	0.70	2 762	0	0
Mashonaland Central	Shamva	5	0	753.20	0	0	2 135	0	0
Mashonaland Central	Shamva	1	0	1 213.70	0	0	2 229	0	0
Mashonaland Central	Shamva	25	0	870.00	0	0	1 344	0	0
Mashonaland Central	Bindura	2	41	4 070.70	0.30	0	7 364	0	0
Mashonaland Central	Mazowe	27	0	7 475.70	0	0	13 899	0	0
Mashonaland Central	Shamva	26	0	449.60	0	0	1 491	0	0
Mashonaland Central	Shamva	10	0	951.00	0	0	2 147	0	0
Mashonaland Central	Shamva	8	0	1 335.40	0	0	1 778	0	0
Mashonaland Central	Bindura	5	0	3 305.90	0	0	8 018	0	0
Mashonaland Central	Shamva	14	0	1 226.60	0	0	5 614	0	0
Mashonaland Central	Mvurwi	28	0	30.00	0	0	4 928	0	0
Mashonaland Central	Shamva	23	0	326.30	0	0	4 719	0	0
Mashonaland Central	Shamva	28	0	795.50	0	0	4 553	0	0
Mashonaland Central	Bindura	1	11.40	3 181.00	0	0	4 662	0	0
Mashonaland Central	Mazowe	8	0	2 718.70	0	0	4 099	0	0
Mashonaland Central	Shamva	9	0	1 554.70	0	0	2 800	0	0
Mashonaland East	Uzumba Maramba Pfungwe	4	0	680.20	0	0	7 174	0	0
Mashonaland East	Mudzi	4	0	2 322.00	0	0	15 009	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland East	Uzumba Maramba Pfungwe	3	0	883.70	0	0	6 288	0	0
Mashonaland East	Mudzi	5	0	518.20	0	0	7 966	0	0
Mashonaland East	Mudzi	6	0	858.70	0	0	10 221	0	0
Mashonaland East	Mudzi	12	0	2 783.30	0	0	12 620	0	0
Mashonaland Central	Shamva	15	0	3 085.40	0	0	5 117	0	0
Mashonaland Central	Bindura	4	0	2 784.80	0	0	7 426	0	0
Mashonaland Central	Bindura	3	21.40	6 600.40	0	0	10 457	0	0
Mashonaland Central	Mazowe	10	0	2 068.40	0	0	3 066	0	0
Mashonaland Central	Mazowe	9	0	1 705.60	0	0	2 460	0	0
Mashonaland Central	Mazowe	25	0	4 886.80	0	0	10 007	0	0
Mashonaland Central	Mazowe	13	0	1 828.20	0	0	2 195	0	0
Mashonaland Central	Mazowe	12	0	1 879.00	0	0	3 947	0	0
Mashonaland Central	Mazowe	11	5.10	1 909.20	3.40	0.20	2 413	0	0
Mashonaland Central	Shamva	11	0	775.90	0	0	3 607	0	0
Mashonaland East	Mudzi	8	0	909.50	0	0	9 277	0	0
Mashonaland East	Mudzi	7	0	1 282.60	0	0	12 250	0	0
Mashonaland East	Mudzi	16	0	2 511.80	0	0	9 571	0	0
Mashonaland East	Mutoko	3	0	718.90	0	0	4 722	0	0
Mashonaland East	Mutoko	4	0	630.00	0	0	4 317	0	0
Mashonaland Central	Bindura	13	0	500.30	0	0	2 386	0	0
Mashonaland East	Mutoko	28	0	4 675.20	0	0	6 766	0	0
Mashonaland East	Mutoko	22	0	679.70	0	0	6 016	0	0
Manicaland	Nyanga	2	0	1 028.70	0	0	4 130	0	0
Mashonaland Central	Bindura	9	0	505.30	0	0	2 122	0	0
Mashonaland Central	Rushinga	25	0	25.70	0	0	1 660	0	0
Manicaland	Nyanga	1	0	505.20	0	0	5 088	0	0
Mashonaland Central	Shamva	18	0	2 239.70	0	0	6 633	0	0
Mashonaland Central	Shamva	20	0	2 713.70	0	0	7 484	0	0
Mashonaland Central	Bindura	8	0	3 463.80	0	0	10 897	0	0
Mashonaland West	Kariba Urban	2	0	1.60	0	0	2 304	0	0
Mashonaland Central	Bindura	14	0	789.90	0	0	2 883	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland Central	Mount Darwin	22	0	3 966.20	0	0	13 641	0	0
Mashonaland West	Kariba Urban	1	0	0.10	0	0	1 183	0	0
Mashonaland Central	Mazowe	22	0	2 183.90	0	0	6 142	0	0
Mashonaland Central	Mazowe	35	0	2 354.20	0	0	6 445	0	0
Mashonaland Central	Mazowe	21	0	6 245.10	0	0	11 378	0	0
Mashonaland Central	Bindura Urban	3	0	104.30	0	0	12 789	0	0
Mashonaland Central	Bindura Urban	12	0	27.70	0	0	3 227	0	0
Mashonaland West	Kariba Urban	3	0	0.30	0	0	822	0	0
Mashonaland Central	Centenary/ Muzarabani	26	0	2 770.00	0	0	8 943	0	0
Mashonaland Central	Bindura Urban	11	0	2.20	0	0	581	0	0
Mashonaland Central	Bindura Urban	6	0	0.60	0	0	1 060	0	0
Mashonaland Central	Shamva	17	0	1 704.80	0	0	13 791	0	0
Mashonaland Central	Centenary/ Muzarabani	15	0	215.30	0	0	1 194	0	0
Mashonaland Central	Shamva	6	0	1 038.90	0	0	1 506	0	0
Mashonaland Central	Shamva	7	0	513.70	0	0	1 281	0	0
Mashonaland Central	Rushinga	21	0	868.50	0	0	3 974	0	0
Mashonaland Central	Rushinga	16	0	482.10	0	0	6 059	0	0
Mashonaland Central	Rushinga	14	0	681.10	0	0	3 250	0	0
Mashonaland West	Kariba Urban	9	0	0.70	0	0	8 207	0	0
Mashonaland Central	Centenary/ Muzarabani	9	0	502.10	0	0	5 770	0	0
Mashonaland West	Kariba Urban	8	0	2.40	0	0	6 830	0	0
Mashonaland Central	Mbire	10	0	2 816.50	0	0	3 453	0	0
Mashonaland Central	Centenary/ Muzarabani	27	0	2 131.00	0	0	3 733	0	0
Mashonaland Central	Mount Darwin	33	0	2 591.10	0	0	8 922	0	0
Mashonaland Central	Mount Darwin	11	0	1 448.30	0	0	11 503	0	0
Mashonaland Central	Guruve	20	0	768.20	0	0	2 871	0	0
Mashonaland Central	Mbire	8	0	4 465.80	0	0	5 181	0	0
Mashonaland Central	Mbire	7	0	1 993.30	0	0	3 168	0	0
Mashonaland Central	Centenary/ Muzarabani	24	0	4 412.10	0	0	2 862	12	0.42
Mashonaland Central	Mount Darwin	4	0	697.50	0	0	2 379	0	0
Mashonaland Central	Mount Darwin	5	0	1 136.80	0	0	3 394	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland Central	Rushinga	23	0	1 020.00	0	0	1 574	0	0
Mashonaland Central	Mount Darwin	32	0	721.70	0	0	1 384	0	0
Mashonaland Central	Mount Darwin	34	0	689.60	0	0	5 376	0	0
Mashonaland Central	Mount Darwin	31	1.50	3 435.30	1.40	0	5 269	13	0.25
Mashonaland Central	Mount Darwin	6	0	1 339.10	0	0	4 935	0	0
Mashonaland Central	Centenary/ Muzarabani	8	0	1 656.50	0	0	4 005	4	0.10
Mashonaland Central	Centenary/ Muzarabani	10	0	714.00	0	0	5 484	0	0
Mashonaland Central	Centenary/ Muzarabani	18	0	1 193.40	0	0	1 775	0	0
Mashonaland Central	Centenary/ Muzarabani	17	0	2 970.00	0	0	4 033	0	0
Mashonaland Central	Mount Darwin	8	0	1 859.00	0	0	4 990	0	0
Mashonaland Central	Mount Darwin	7	0	1 196.30	0	0	2 914	1	0.03
Mashonaland Central	Mount Darwin	35	0	927.50	0	0	1 792	0	0
Mashonaland Central	Centenary/ Muzarabani	21	0	1 104.60	0	0	4 096	0	0
Mashonaland Central	Mount Darwin	1	0	263.70	0	0	492	0	0
Masvingo	Mwenezi	15	12.90	9 359.80	0.50	0	36 198	0	0
Mashonaland East	Hwedza	10	0	622.10	0	0	2 337	0	0
Manicaland	Makoni	32	0	240.10	0	0	2 105	0	0
Manicaland	Rusape	10	0	80.70	0	0	8 938	0	0
Manicaland	Rusape	9	0	142.10	0	0	3 377	0	0
Mashonaland Central	Bindura	12	0	527.50	0	0	2 534	0	0
Mashonaland East	Goromonzi	3	0	713.10	0	0	3 306	0	0
Mashonaland Central	Mbire	6	0	1 981.70	0	0	4 632	3	0.06
Mashonaland Central	Rushinga	3	0	712.20	0	0	4 203	0	0
Mashonaland Central	Guruve	19	0	1 452.30	0	0	5 069	0	0
Manicaland	Nyanga	13	0	527.60	0	0	3 300	0	0
Manicaland	Nyanga	14	0	782.60	0	0	3 219	0	0
Masvingo	Chiredzi Urban	4	0	0.10	0	0	1 080	0	0
Masvingo	Masvingo	30	0	10 017.60	0	0	11 312	0	0
Masvingo	Chivi	29	0	2 664.60	0	0	4 645	0	0
Masvingo	Chivi	27	0	2 181.00	0	0	5 578	0	0
Masvingo	Chiredzi	8	39.90	7 336.90	2.30	0	6 376	0	0

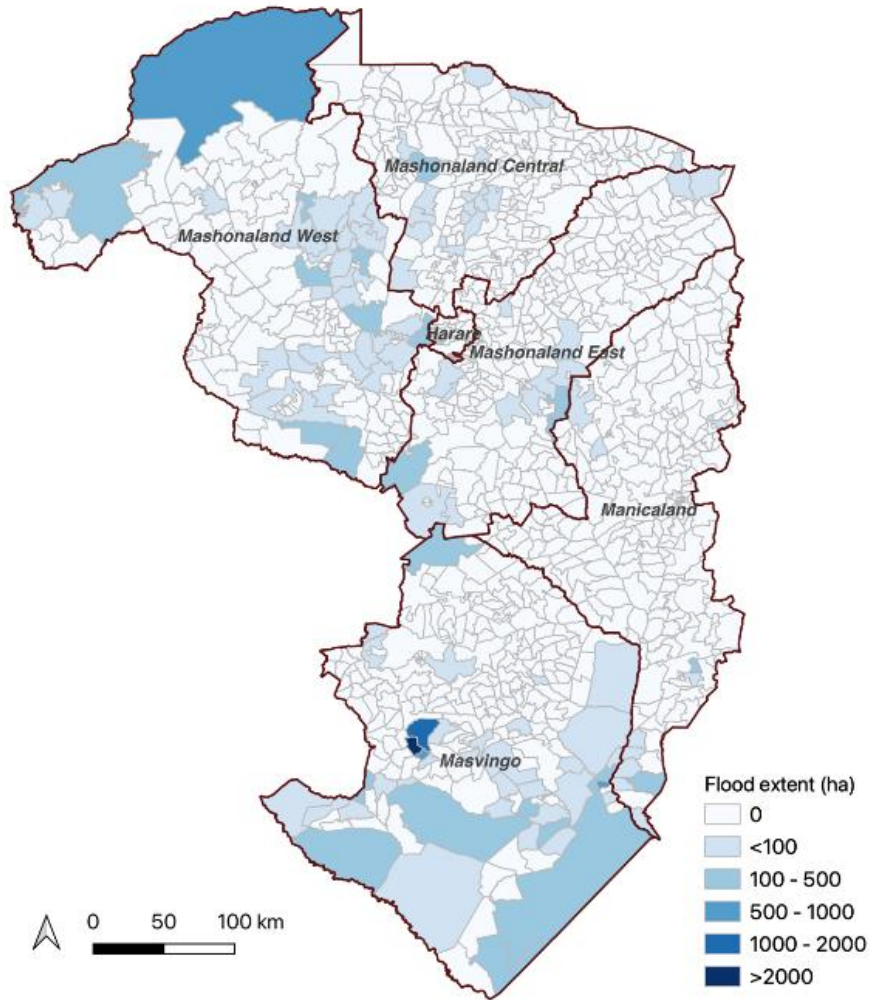
Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Masvingo	Chiredzi Urban	3	0	0.60	0	0	1 332	0	0
Masvingo	Zaka	26	0	2 031.70	0	0	4 334	0	0
Masvingo	Masvingo	28	52.30	1 201.50	4	0.30	1 544	0	0
Manicaland	Chipinge	25	0	11 543.40	0	0	7 923	0	0
Manicaland	Chipinge	28	473.30	17 557.70	337.90	1.90	12 188	1	0.01
Masvingo	Chivi	8	0	1 504.70	0	0	5 780	0	0
Masvingo	Masvingo	33	4.40	1 696.70	0	0	21 970	0	0
Manicaland	Rusape	8	0	42.70	0	0	4 302	0	0
Mashonaland West	Hurungwe	22	0	4 612.30	0	0	12 326	0	0
Masvingo	Zaka	34	0	2 218.90	0	0	4 832	0	0
Masvingo	Gutu	39	0	1 615.00	0	0	2 089	0	0
Manicaland	Buhera	27	0	5 884.90	0	0	5 893	1	0.02
Manicaland	Chipinge	10	32	2 117.10	6	0.30	11 928	0	0
Manicaland	Mutare Urban	7	0	870.60	0	0	7 980	0	0
Manicaland	Mutare	6	0	956.80	0	0	4 755	0	0
Manicaland	Mutare	7	0	2 676.70	0	0	13 529	0	0
Manicaland	Mutare	25	0	1 904.90	0	0	4 827	0	0
Manicaland	Mutare Urban	6	0	36.00	0	0	2 020	0	0
Manicaland	Mutare Urban	17	0	238.30	0	0	11 946	0	0
Manicaland	Rusape	4	0	7.10	0	0	918	0	0
Manicaland	Rusape	1	0	38.10	0	0	4 222	0	0
Manicaland	Rusape	7	0	8.50	0	0	2 691	0	0
Mashonaland Central	Mazowe	33	0	65.50	0	0	2 052	0	0
Mashonaland Central	Bindura	11	0	389.00	0	0	3 656	0	0
Mashonaland Central	Mazowe	17	0	102.60	0	0	2 013	0	0
Mashonaland Central	Shamva	24	0	201.10	0	0	2 264	0	0
Mashonaland East	Mudzi	1	0	348.70	0	0	4 670	2	0.04
Mashonaland West	Kariba Urban	7	0	0	0	0	5 136	0	0
Mashonaland West	Kariba Urban	4	0	0	0	0	743	0	0
Mashonaland Central	Mbire	15	0	1 281.00	0	0	4 874	0	0
Mashonaland Central	Mbire	4	0	5 837.40	0	0	11 588	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland Central	Rushinga	13	0	897.10	0	0	3 735	0	0
Mashonaland Central	Rushinga	24	0	124.50	0	0	1 551	0	0
Mashonaland Central	Centenary/ Muzarabani	6	0	809.30	0	0	2 571	0	0
Mashonaland West	Hurungwe	1	0	10 937.20	0	0	21 393	0	0
Masvingo	Chiredzi	15	272.80	2 740.80	37.60	1.40	14 366	0	0
Manicaland	Chipinge	30	7.60	554.00	0	0	3 396	0	0
Mashonaland Central	Mbire	1	0	855.90	0	0	13 046	0	0
Masvingo	Masvingo	3	0	922.50	0	0	5 226	0	0
Mashonaland Central	Guruve	23	0	704.70	0	0	2 035	0	0
Masvingo	Chiredzi	21	13.30	4 193.00	8	0.20	6 025	1	0.02
Masvingo	Chiredzi	14	0	1 947.60	0	0	10 630	0	0
Manicaland	Chipinge	19	0	3 313.00	0	0	21 980	0	0
Mashonaland West	Sanyati	4	0	6 543.70	0	0	11 314	0	0
Mashonaland Central	Mbire	11	0	602.70	0	0	8 217	0	0
Mashonaland West	Mhondoro0Ngezi	16	0	1 933.20	0	0	5 236	0	0
Manicaland	Makoni	34	0	2 556.50	0	0	4 607	0	0
Manicaland	Makoni	13	0	1 003.70	0	0	3 981	0	0
Mashonaland West	Kariba	8	0	6 508.30	0	0	5 415	0	0
Mashonaland West	Kariba	3	0	1 020.80	0	0	2 998	0	0
Mashonaland West	Hurungwe	9	0	3 889.30	0	0	13 712	0	0
Mashonaland West	Hurungwe	20	0	6 897.60	0	0	14 106	0	0
Mashonaland West	Makonde	19	0	5 493.20	0	0	13 359	0	0
Manicaland	Nyanga	4	0	2 102.10	0	0	7 618	0	0
Mashonaland Central	Centenary/ Muzarabani	7	0	688.20	0	0	2 681	1	0.04
Masvingo	Mwenezi	12	0	4 821.80	0	0	2 324	0	0
Masvingo	Chivi	32	0	2 781.00	0	0	6 665	0	0
Masvingo	Mwenezi	4	136.30	2 435.70	1.50	0.10	3 840	0	0
Masvingo	Zaka	29	0	645.20	0	0	4 772	0	0
Masvingo	Chiredzi	26	0	3 493.60	0	0	3 687	0	0
Masvingo	Chiredzi	7	44.50	3 437.10	0.70	0	3 396	0	0
Manicaland	Nyanga	19	0	586.20	0	0	2 591	0	0

Province (ADM1)	District (ADM2)	Ward (ADM3)	Flooded Area(ha)	Total Cropland(ha)	Inundated Cropland(ha)	Inundated Cropland (%)	Total population	Affected population	Affected population (%)
Mashonaland West	Hurungwe	13	0	11 725.90	0	0	11 903	0	0
Mashonaland East	Chikomba	15	78.90	5 283.80	0.10	0	5 700	0	0
Manicaland	Mutare	9	0	1 670.20	0	0	3 997	0	0
Manicaland	Mutare	19	0	1 604.30	0	0	4 701	0	0
Mashonaland West	Chegutu	26	0	4 340.10	0	0	6 927	0	0
Mashonaland West	Kariba	5	0	997.10	0	0	1 534	0	0
Mashonaland West	Kariba	1	0	66.10	0	0	901	0	0
Mashonaland West	Kariba	11	0	951.20	0	0	1 917	0	0
Mashonaland West	Makonde	3	108.90	2 671.80	28.60	1.10	4 031	0	0
Mashonaland Central	Centenary/ Muzarabani	20	0	116.30	0	0	1 143	0	0

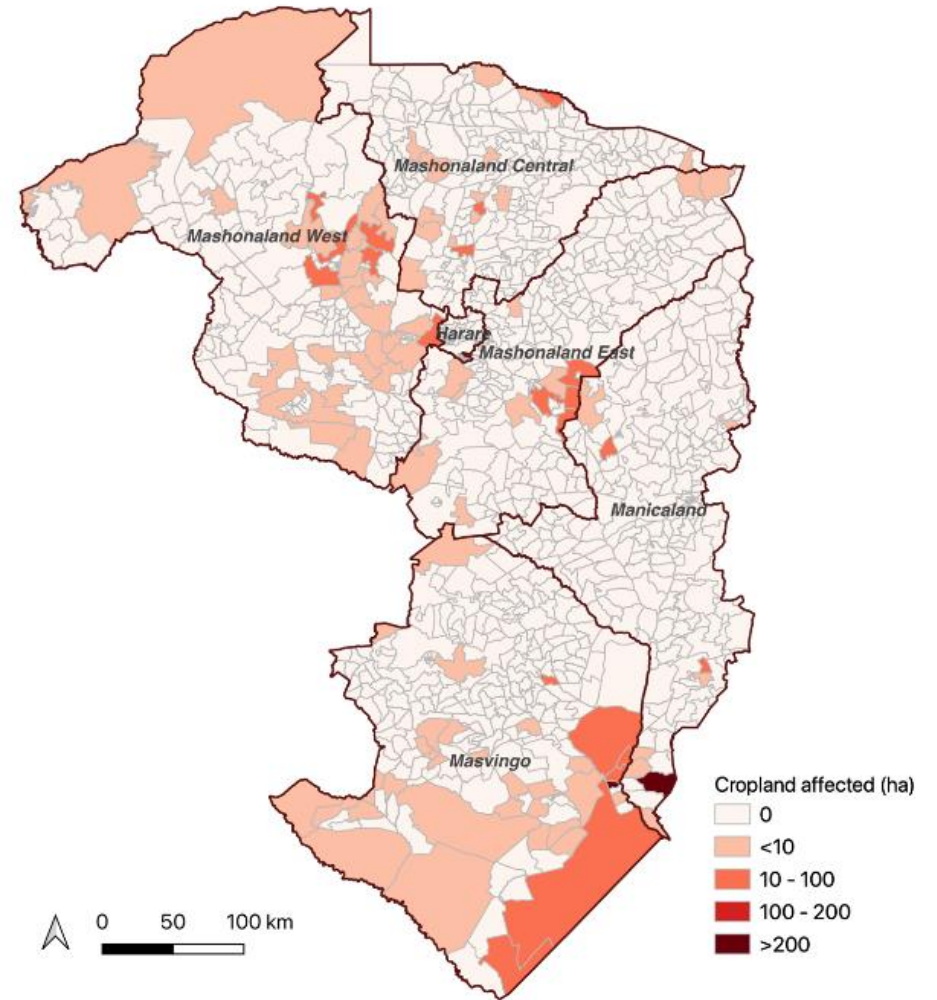
Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 34. Flood area extent by ward (admin level 3) in six provinces of Zimbabwe after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

Figure 35. Flooded crop area extent at ward level in six provinces of Zimbabwe (admin level 3) after Tropical Storm Ana (24 January 2022)



Source: For this analysis administrative boundaries HDX, 2019 modified to comply with UN, 2020.

A rapid geospatial analysis of the impact of **Tropical Storm Ana** in Madagascar, Malawi, Mozambique, Zambia and Zimbabwe

A low-pressure system was formed in the Indian Ocean on 20 January 2022 and entered the Mozambique channel on the 23 January 2022 after crossing Madagascar on the 22 January 2022, subsequently evolving into a moderate tropical storm that made landfall on 24 January 2022 in Mozambique causing damages to lives and livelihoods.

Reports suggested that heavy rainfall and strong winds caused population displacements, flooding, and damage to public and private infrastructures in Mozambique, Madagascar, Zimbabwe, Zambia, and Malawi. Due to the frequency and scale of incidents, urgent and sustainable support is required, responding to the acute needs of the most vulnerable and displaced people.

There is a critical need to understand the impact of the tropical storm on vulnerable people and cropland areas in the region. Thus, the Food and Agriculture Organization of the United Nations (FAO) has conducted a rapid post-disaster impact assessment for the countries affected by the cyclone based on remote sensing and geospatial analysis to provide updated information at different administrative levels. Assessments include the identification of flooded areas, the extent of inundated cropland and exposed population to floods. This work aims to support current and future emergency response programmes.

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