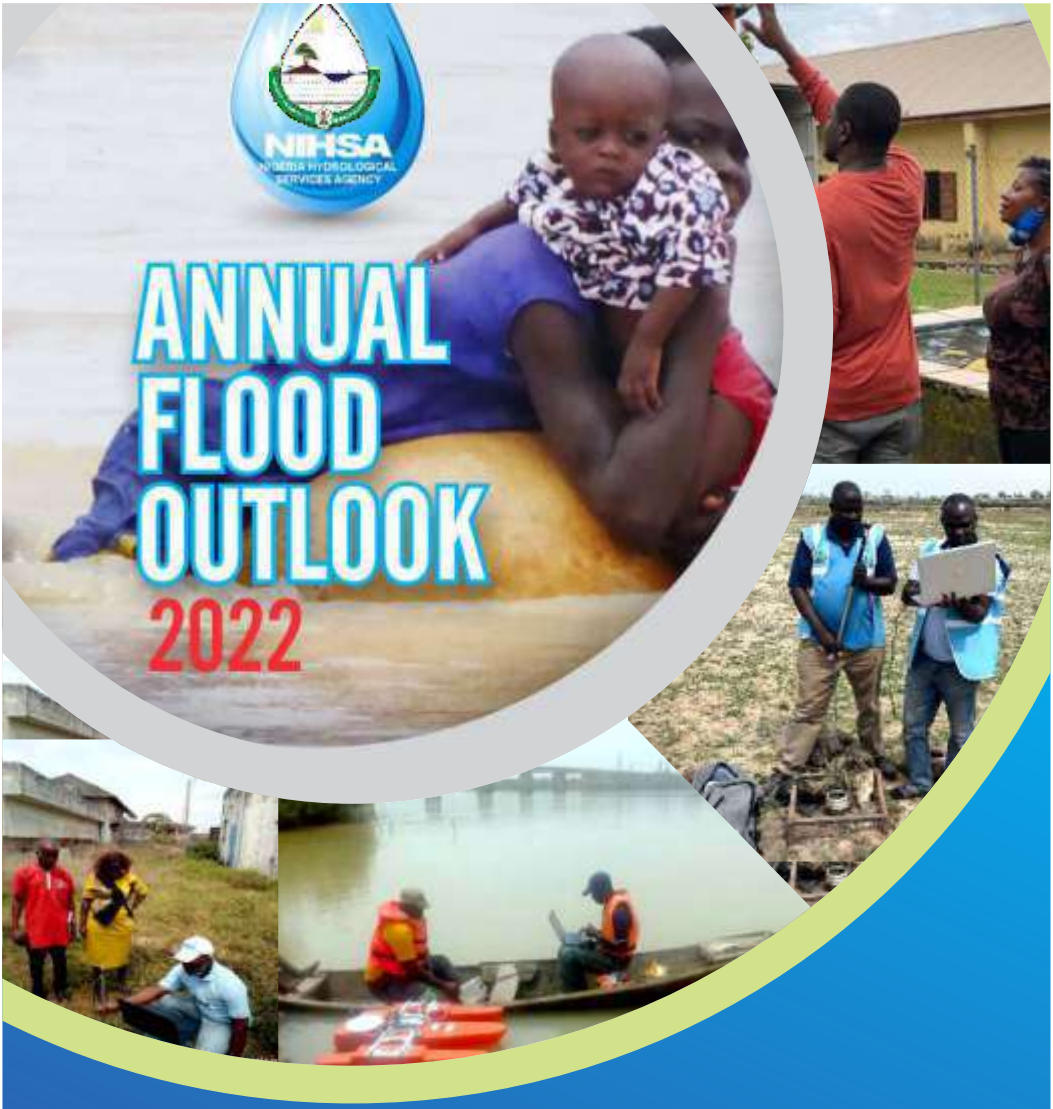
NIGERIA HYDROLOGICAL SERVICES AGENCY

Water Resources Data for Sustainable Development

NIHSA

2022 ANNUAL FLOOD OUTLOOK



FED. MIN. OF WATER RESOURCES

Water Resources Data for Sustainable Development

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FEDERAL MINISTRY OF WATER RESOURCES

Water Resources Data for Sustainable Development

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His Excellency

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PRESIDENT, FEDERAL REPUBLIC OF NIGERIA

His Excellency

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FOREWORD

In Nigeria, flood and drought constitute the major natural disasters plaguing the country. Drought and desertification are encroaching on arable lands in the northern Nigeria while erosion and landslides are taking their toll in the South East. Impermeable pavements, improper planning and inadequate drainage systems have left our cities at the mercy of floodwaters at every drop of rain. River channels and reservoirs are threatened by siltation and floodplains can no longer hold back runoff from the rivers.

Nigeria is drained by numerous rivers and streams, the longest of which are the Rivers Niger and Benue. Most major rivers in the country are tributaries of these transboundary rivers. The combined effect of these rivers influences the recurring flood events that are experienced in most parts of the country.

This year's Annual Flood Outlook (AFO) publication serves as a measure to sensitise the populace and create awareness on the inherent dangers of flooding in order to minimize its negative impacts. It is also designed to inform people about locations that are prone to flood risk at a particular time and encourage them to take appropriate actions.

The AFO by NIHSA describes probable flood scenarios for the country, its implications for river navigation, agriculture, industry, infrastructure, communication facilities, water resources, energy and power, transportation, tourism, environmental disaster management, health, oil and gas, national planning and statistics, etc. Planners and practitioners in these sectors should take advantage of this product to improve their productivity and socio-economic well-being. AFO presents the ways in which people in different locations may be at greater risk than other groups in the event of flood disasters and highlights the need to build resilience to flood and other natural disasters in the country, especially in the low-lying areas.

In 2021, we saw the devastating impact of flood event affecting 192 LGAs across the country. Apart from the physical damages, other indirect losses are often overlooked. NIHSA had forecasted cases of flooding right from 2013 to date, and it has been proven that these forecasts did actually occur. We advocate that all stakeholders, decision

makers, and indeed Government, take note and consider the information contained in this 10th Edition of the Annual Flood Outlook to plan and prepare in advance for any eventualities. The Nigeria Hydrological Services Agency is prepared to serve the general public better and will keep updating flood forecast so as to provide early warning and information with regards to the probable 2022 floods.

Engr. Suleiman H. Adamu, *FNSE, FAEng.*
Honourable Minister of Water Resources
May 2022.

ACKNOWLEDGMENT

I very much appreciate the continued support of the Honourable Minister for Water Resources, **Engr. Suleiman H. Adamu, *FNSE, FAEng*,** for the successes recorded at mitigating flood disasters in Nigeria through the publication of Annual Flood Outlook (AFO). This edition marks a decade long since the AFO was first published. The successes so far achieved highlighted the impetus and vibrancy that the Honourable Minister has deployed to bringing into limelight the past six consecutive editions of AFO under his able watch.

Special thanks to the Permanent Secretary, Federal Ministry of Water Resources, **Mrs. Didi Walson-Jack, mni,** for playing the guiding role that ensured timely publication of this Annual Flood Outlook as well as execution of other projects of the Agency.

This 10th edition of the Annual Flood Outlook (AFO) is made possible with the support and commitment of our team of consultants and technical experts who have over the years, been providing indepth analyses and interpretations of hydrological and hydrogeological data for probable flood scenarios that have contributed significantly to the national development. I am also grateful to our sister Agencies such as the Nigerian Meteorological Agency (NiMet), National Emergency Management Agency (NEMA), National Space Research and Development Agency (NASRDA), Office of the Surveyor General of the Federation (OSGOF), National Water Resources Institute (NWRI), Nigeria Integrated Water Resources Management Commission (NIWRMC) and River Basin Development Authorities (RBDAs), to mention but a few, for their unquantifiable support.

I wish to acknowledge the huge support received from the Nigeria Erosion and Watershed Management Project (NEWMAP) through the upgrading of Hydrometric system across the country and provision of hydrological monitoring equipment. The Hydrological data reception center put in place at NIHSA Headquarters by the Transforming Irrigation Management in Nigeria (TRIMING) project for seamless data acquisition from hydrological installations within the project catchment areas, and also Action Against Hunger (AAH), for special intervention in groundwater monitoring and installation of automatic

weather observation stations in the North East. These have aided flood forecasting and improved the capacity of staffs.

I am also grateful to the management and staff of Nigeria Hydrological Services Agency (NIHSA) for their steadfastness for the accomplishment of AFO publication from inception to date.

Just like its previous editions, I have the assurance that the 2022 Annual Flood Outlook (AFO) will serve as a great resource in flood mitigation and management, reservoir operations, disaster risk reduction, and provision of information on flood early warning for abating flood disasters and enhancing food security in the country.

Engr. Clement O. Nze, ***FNSE, FNAHS***
Director General/CEO.
May, 2022.

EXECUTIVE SUMMARY

Flood menace has become a recurring phenomenon all over the world which sometimes has devastating effects on human livelihood and infrastructural development. The flood disasters, unlike some natural disasters, can be controlled and the impacts mitigated through the use of both structural and non-structural measures. The non-structural measures that may include flood early warning systems, public campaign awareness and other stakeholders' engagement are highly effective in mitigating against flood disaster if the warning is taken serious and appropriate measures put in place.

The Nigeria Hydrological Services Agency (NIHSA), in line with its statutory mandate issues forecasts such as the Annual Flood Outlook (AFO) and sensitizes Nigerians on flood management towards mainstreaming disaster reduction efforts for sustainable socio-economic development. This information is critical for coastal and riverine communities especially those proximal to the trans-boundary Rivers Niger and Benue as well as other major rivers across the country.

The AFO through spatial and temporal approaches to flood forecasting has created awareness and proffered mitigation measures which has resulted in significant reduction of loss of lives and property, and enhanced socio-economic development over the last nine years in the country.

The flood scenarios as presented in the 2022 AFO are derived from the application of two models: Hydrologic Engineering Center, Hydrologic Modeling System (HEC-HMS) and the Soil and Water Assessment Tool (SWAT) Models. These models utilize meteorological, hydrological, hydrogeological data, topographical and soil water balance indices, as well as Digital Elevation Model (DEM).

The 2022 AFO was developed for three sessions during the rainy season in Nigeria. These include:

- Scenario I: Flood Outlook for the Months of April-June (AMJ).
- Scenario II: Flood Outlook for the Months of July – September (JAS)
- Scenario III: Flood Outlook for the Months of October - November (ON)

These three (3) scenarios were cumulatively aggregated to produce the 2022 AFO. The whole essence is to gradually move towards having a more dynamic flood forecast, prediction and Early Warning System (EWS) that can spatial-temporally aid developmental activities across sectors in Nigeria.

A total of **57 LGAs** fall within the highly Probable risk areas in the months of April, May and June; **220 LGAs** in the months of July, August and September; and **38 LGAs** in the Months of October and November.

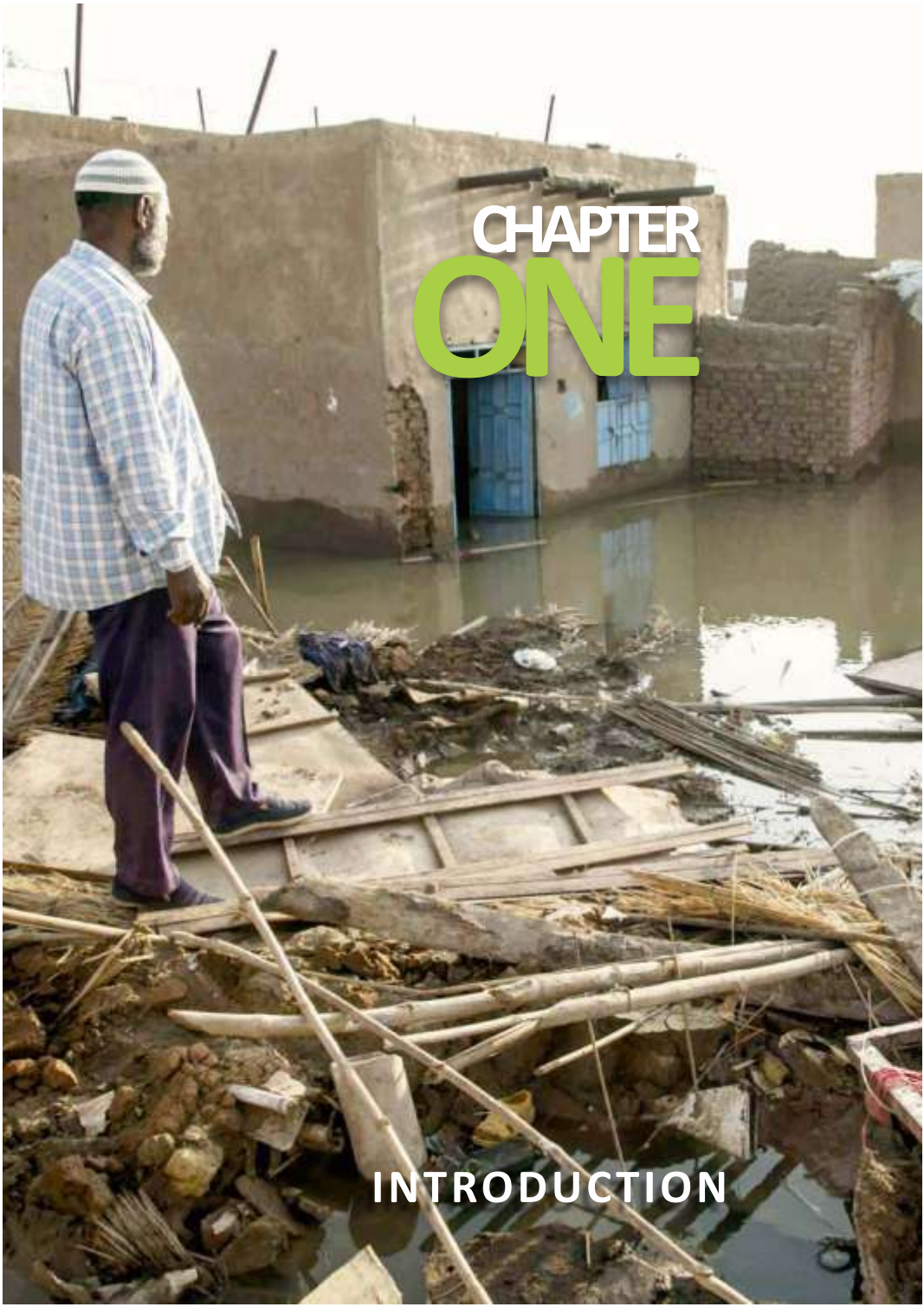
In addition, a total of **45 LGAs** fall within the Probable risk areas in the months of April, May and June; **140 LGAs** in the months of July, August and September; and **54 LGAs** in the Months of October and November.

Some coastal States, including Rivers, Delta, Lagos and Bayelsa are expected to experience coastal flooding due to rise in sea level and tidal surge which could impact fishing, habitation and coastal transportation.

Flash and Urban Flood are also expected to occur in some locations such as Lagos, Abeokuta, Osogbo, Ibadan, Benin-City, Asaba, Warri, Onitsha, Port-Harcourt, Kaduna, Sokoto, Yola, Abakaliki, Birnin-Kebbi, Makurdi and major cities with poor drainage systems.

The 2022 AFO contains useful information on the areas that are likely to be flooded, the probable months that the flood would occur and the severity of the expected flooding. The 2022 AFO recommends a continuous sensitization and awareness campaigns, clearing of the water ways and maintenance of hydraulic structures such as dams and reservoirs.

Stakeholders, decision and policy makers, relevant federal, state and local government's agencies should take note of the information contained in the 2022 AFO and prepare in advance. Finally, it is advised that the predictions of flood for 2022 AFO be adhered to and all recommendations heeded.



CHAPTER ONE

INTRODUCTION

1.0 INTRODUCTION

1.1 PREAMBLE

Flood menace in Nigeria have become a normal and re-occurring phenomenon which sometimes has devastating impacts on human livelihoods and infrastructural development.

Flood menace in Nigeria have become a normal and re-occurring phenomenon which sometimes has devastating impacts on human livelihoods and infrastructural development.

Flood menace has become a recurring phenomenon all over the world which sometimes has devastating effects on human livelihood and infrastructural development. The flood disasters, unlike some natural disasters, can be controlled with proper planning and provision of necessary infrastructure.

In Nigeria, The impacts of floods are more pronounced in low-lying areas. In more recent years, 2011 and 2012 appears to be the worst incidence of flooding in Nigeria with a lot of reported cases indicating how flood menace ravaged affected states of the country when water from the Lagdo Dam in Cameroon was released According to the World Meteorological Organization (WMO), there has been an exponential increase in the damages caused by flood during the past decades mostly as a consequence of the effects of climate change.

Nigeria is not an exception to this trend and has experienced several flood disasters. The most notable incidences are 2012 and 2018 devastating floods in which many lives were lost, property damaged, farms were submerged in water and general disruption of livelihood with attendant adverse socio-economic consequences. The 2012 flood, for instance, led to the displacement of 387,153 persons, destruction of infrastructure and disruption of socio-economic activities valued at US Dollars 16.9 billion (1.4% GDP) and sadly the loss of 363 lives (Post Disaster Needs Assessment- PDNA,2012).

The impacts of floods in Nigeria are more pronounced in low-lying areas. This constitutes a major threat to the country's effort at

achieving the global Sustainable Development Goals (SDGs) which targeted attaining environmental and human development by 2030. Out of the 17 goals, 9 are directly affected by flooding, these include eradicating poverty and hunger as well as providing clean water and sanitation.

In tackling flood risk in Nigeria, the Nigeria Hydrological Services Agency (NIHSA) saddled with the responsibility, amongst others, to advise the federal and state governments on all aspects of hydrology, has over the past years continued to inform the Nigeria public on probable flood scenario within the country through its Annual Flood Outlook publication. This has led to improved flood forecast resulting in reduction of harmful effects of flood on communities that have heeded the warnings and carried out remediation actions contained in the past editions of AFO. The Agency is also not relenting in ensuring that essential links or components of the integrated flood forecasting, warning and response system consisting of a data source, communications, forecasts, decision support, notification (often referred to as dissemination), coordination, and actions (or responses) are followed through by all concerned.

The Agency also maintains and operates several Data Collection Platforms (DCP) as well as Hydrological Information System Management Network (HYDRONET). Furthermore, the Agency has installed several flood early warning systems in strategic riparian communities to provide early warning of impending flood event within the localities. The Agency also operates and maintains Automatic Weather Observation Systems (AWOS) at specific locations for flood and drought assessment in the country.

In line with the earlier publications, this year's AFO contains useful information on the areas that are likely to be flooded and the severity of the expected flood. Furthermore, clear advice on measures to take before, during and after flooding are enshrined herein. These important initiatives should continue to be deployed to implement appropriate counter-measures (structural and non-structural) to alleviate the persistent threats of water related disasters.

The Annual Flood Outlook serves as an important guide in reducing flood risks and vulnerabilities, thereby contributing to economic growth and national sustainable development.

1.2 OVERVIEW OF THE ANNUAL FLOOD OUTLOOK IN NIGERIA AND ITS EFFECT ON FLOOD MITIGATION.

The Annual Flood Outlook was conceived in 2013, following the flood incidence of 2012. The Nigeria Hydrological Services Agency (NIHSA) organised a colloquium which attracted experts and stakeholders from various parts of the country. The outcome of the colloquium was the need for NIHSA to annually prepare flood forecast for the entire country. The Agency has since been in the forefront of flood mitigation by producing the AFO publication annually. The Agency so far has published 9 editions of AFO which provide information on the probable flood scenarios in the country. The essence of the Annual Flood Outlook is to sensitize the general public, especially those living in flood prone areas, on probable flooding events and advise them to take proactive measures to avoid the recurrence of socio-economic losses of flood disasters.

In 2013, information and data from reports of the 2012 floods as well as available meteorological and hydrological data were examined. Morphometric parameters were also evaluated to ascertain catchment characteristics. To ensure the contiguity of the hydrological system in a catchment based approach, the existing eight (8) Hydrological Areas into which the country is partitioned, were also adopted for data integration, analysis and presentation.

In 2014, the AFO was prepared using two (2) models which are Geospatial Stream Flow Model (GeoSFM) and Soil and Water Assessment Tools (SWAT). The GeoSFM is a semi-distributed, physical based, catchment-scale, hydrologic modeling system developed by the United States Geological Survey Centre for Earth Resource Observation and Science (USGS/EROS). It runs within a GIS environment (ESRI ArcView) for data input, preparation and visualization of simulation outputs. While SWAT Model which is a watershed scale model was developed to predict runoff and sediment

yield in large complex watersheds with varying soils, land uses and management condition over long period of time. The model is physically based, requiring specific data on weather, soil properties, topography, vegetation, and land management properties occurring on the watershed. The physical process associated with water and sediment movement are directly Modelled by SWAT using input data. The model is computationally efficient and can simulate very large and complex watersheds over long periodss without excessive investment in time or money. However, the SWAT model is not applicable to single-event flood routing, as it is a continuous simulated model.

However, in hydrological research, the performance of a hydrological model varies for different catchments as a result of distinct characteristics and scales. In order to obtain good result for hydrological research, suitable hydrological models are required for different catchment sizes and data sets. Thus, the need to review the models used yearly. It is worthy of note that flood in Nigeria are not only generated by excessive rainfall but due to heavy contributions from external inflows from Jiderebode (River Niger) and Wuroboki (River Benue), which the GeoSFM is unable to handle adequately. Hence, the adoption of the Hydrological Engineering Centre, Hydrological Modeling System (HEC-HMS).

The HEC-HMS was adopted in 2021 because it was able to accept external inflows that can be routed through the river system for accurate flow simulation. Furthermore, the previous model (GeoSFM) is no longer supported by the USGS EROS Centre, whereas, the HEC-HMS model is still actively developed to date by the United States Army Corps of Engineers (USACE).

The Agency also introduced the Hydrologiska Byrans Vattenbalansavdelning (HBV) Model in 2021. The model which is a semi-distributed conceptual rainfall-runoff model can simulate stream flow using rainfall, temperature and potential evapotranspiration (PET) as input. Precipitation and temperature data used were from NiMet and NIHSA stations. The Hydrological

Areas (HAs) were used as catchment and further delineated into sub-catchments. The HBV model was introduced to complement the result of the other models.

Between 2013 – date the models used were selected based on their wide application in various parts of the world with satisfactory results. The models are simple to use, efficient in flood flows simulations, and are much more reliable using geologic and catchment factors in their applications. Lastly, after the publication of the AFO, the Agency goes further to sensitize and advise stakeholders and the general public that the prediction of flood for each year should be adhered to and all recommendations heeded. Despite these, some localities are still being caught unawares.

1.3 HIGHLIGHT OF FLOOD OCCURRENCE IN NIGERIA AND POSSIBLE SOLUTIONS.

Flooding has become a major hazard in Nigeria in recent years due to growing population, rapid urbanization and extreme weather events. Many communities have suffered colossal losses due to lack of information and negligence. It has become a very disturbing issue in the spate of any flood event amongst vulnerable settlements and communities. This disturbing flood disaster has again been identified as one of the fall outs of global climate change which we have all been collectively responsible for. This trend would continue and may be worse if proactive measures are not taken into consideration.

The most significant approaches to flood mitigation are **Planning** and **Right Attitude.** These two components are germane in effective flood risk management. Planning entails that conscious preparedness be put in place to mitigate disaster should they occur. This spans from strong framework and policies driven by government, people engagement, funding, partnerships, education, health, provision of relief camps and materials etc. These and many more constitute part of the planning processes and must be sequentially designed, tested, evaluated and reviewed routinely.

Flooding seems to be a recurring event at most emerging metropolis

and mega cities like Mexico, London, New York, Abuja and Lagos, amongst others. This may be due to the massive economic development projects to meet the socio-economic needs being embarked upon without due hydrological and environmental consideration. This often led to destructive incidences even in regions that used to be considered safe. Addressing Nigeria's perennial flooding is important for the country to make progress. The human-induced causes of flooding should be addressed urgently.

1.4 SOME OF THE IDENTIFIED LOCATIONS WHERE FLOOD HAS CAUSED DEVASTATING EFFECTS IN NIGERIA.

1.4.1 Lokogoma (Abuja Municipal): In the last six years (2016 - 2021), Lokogoma has been experiencing perennial flooding. This could be attributed to obstruction caused by buildings erected on the waterways and hindering the free flow of water. According to Florence Wenegieme, of Forecasting, Response and Mitigation Department F.C.T FEMA, poor construction of bridges and roads by estate developers significantly contributed to floodings in this area. To remedy the situation, FCT FEMA teamed up with the Lokogoma residents and estate developers to come up with effective measures for curtailing flood incidence in the area.

1.4.2 Lagos Island (Lekki): Lagos is a coastal city bound to experience coastal flooding caused by higher-than-normal rise in sea levels, largely as a result of storm surges, resulting from the sea overflowing into the land. Over the years recurring flooding has been experienced in the following LGA in Lagos state: Lagos Island, Eti-Osa, Alimosho, Amuwo Odofin, Ikeja, Ojo, Kosofe, Apapa, Epe, Oshodi-Isolo, Shomolu, Surulere and Ajeromi /Ifelodun. This could be attributed to urban flooding which is caused by intense or prolonged rainfall and developments/construction works which Lagos has of late been characterized with.

Ordinarily, heavy rainfall over a short period of time can cause flash floods, and moderate rainfall over several days can overflow rivers or dams. Flooding within Lagos Island arise from failure of infrastructures designed to store or convey water and protect the area from flooding.

Figure 1.1 Picture of Marina Lagos Island being flooded

1.4.3 Etsako Central (Edo State): In recent times, flooding has rendered many houses inhabitable, farmlands unproductive and caused traffic congestions, damage to transportation and roads. According to Johnson Oghuma, a member House of Representatives (Etsako Federal Constituency), perennial flood has rendered thousands of people within Etsako Constituency homeless and destroyed valuable farmlands in the area. The effect of flooding has led to deplorable condition of living for people in the area which had caused many people to either evacuate or abandon their homes. Farming is no longer encouraged; commuters and transporters are faced with the problem of flooding of routes in the area concerned. One of the identified problems of flooding is the non-compliance with town planning regulations, which has resulted or contributed in no small measure to flooding in the state. Many illegal structures sprung up in the towns are blocking natural flows, channels holes, also dumping of refuse into drainages have blocked drains and other water channels.

Figure 1.2 Picture showing flooded village in Etsako Central Local Government

1.4.4 Bagudo (Kebbi State): Kebbi State is synonymous with food production, particularly rice. However, very sadly, the state's massive rice production has been hampered by the recent devastating floods. The recurrent floods in Kebbi have swept away villages and destroyed about 90 percent of the region's crops, putting Nigeria's food security at risk. The floods regrettably dashed the hopes of many farmers. According to Yahaya Sarki (Special Adviser on Media to Kebbi State Governor), the floods often result from continuous rainfall and overflowing of river banks.

Figure 1.3 Picture showing a flooded village in Bagudo Kebbi State

1.4.5 Onitsha North and South Local Government (Anambra State): Omambala is the major riverine area of Anambra State. Omambala is the local nomenclature for local settlements sharing boundaries with one another and situated within the shores of the great Omambala River (Anambra River), from which Anambra state derived her name. The area is richly blessed with water resources as the region is by passed by River Niger and also accommodates the Ezu River, a major tributary of the Omambala River which is the largest left bank tributary of the River Niger. It also has many other major and minor rivers, streams, ponds and springs hence highly vulnerable to flooding. These account for the region being prone to seasonal flooding. Perennial flooding experienced within the state is mainly

caused by poor management of the environment such as blockage of flood drains, building of structures and felling of trees on flood plains. According to Chief Paul Odenigbo (Executive Secretary, Anambra State Emergency Management Agency), the following riverine communities of Ayamelu, Anambra East and West, Ogbaru, Onitsha North and South, Awka North, Idemili South, Ihiala and Ekwusigo are inclined to flooding because of River Niger and its distributaries Omabala River (Anambra River) passing through Anambra East and West.

Figure 1.4 Picture of flooded residential area in Onitsha North LGA

1.4.6 Numan (Adamawa State): Adamawa State is located along the Benue plains. The worst affected communities in the states are Numan, Demsa, Lamurde in Yola North, Yola South and Fufore local government areas. According to Dr Muhammed Suleiman (Adamawa State Emergency Management Agency), more than 150 farmlands and 66 houses were destroyed by flood in 2021. Numan town in particular is seriously affected by flooding yearly because of its geographic location, that is, at the point where River Gongola empties into River Benue.

Figure 1.5 Picture showing flooded area in Numa

Having highlighted some carefully selected locations where flooding frequently occurs, it is essential to draw the attention of stakeholders and the general public on the need to draw up action plans towards preventing the recurrence of flooding events not only within the highlighted states but across the country.

CHAPTER TWO

EVALUATION OF ANNUAL FLOOD OUTLOOK (AFO) IN 2021/2022 HYDROLOGICAL YEAR IN NIGERIA

2.0 EVALUATION OF ANNUAL FLOOD OUTLOOK (AFO) IN 2021/2022 HYDROLOGICAL YEAR IN NIGERIA

2.1 INTRODUCTION

The 2021/2022 Hydrological Year began in April, 2021 with resultant increase in water level and discharge across most river channels in the country. The period is faced with numerous challenges including flooding, drought, COVID-19 pandemic, insecurity and inflation among others as the country struggled to achieve the Sustainable Development Goals (SDGs).

It is also a period when transboundary White and Black flood flow of River Niger from neighbouring countries coupled with climate change and anthropogenic factors compounded the flood hazards in the country. The Black flood flow is mostly from the rainfall runoff from Guinea passing through Mali, Niger and Benin Republic to empty into Nigeria. Its arrival in the country during the dry season becomes additional water sources to Kainji and Jebba dams that also protect the rest of the country downstream. The total volume of water passed, of both the Rivers Niger and Benue at Lokoja is about 159 billion cubic metres during the 2021/2022 Hydrological Year.

It should also be noted that Nigeria's location downstream Rivers Niger and Benue should have been a blessing due to the abundant water resources availability. However, it has become a menace, causing erratic flooding and flood disasters on annual bases, the worst of which was experienced in 2012 when hundreds of lives were lost, thousands of citizens rendered homeless with property losses running into billions of Naira including massive farm lands and crops.

During the 2021 AFO, NIHSA predicted Red Flood Alert (Highly probable Flood Risk areas) to be experienced in 121 Local Government Areas in 28 States of Nigeria and about 302 LGAs in the 35 States of the Federation including the FCT to fall within the Yellow Alert (Moderately Probable Flood Risk areas) while the remaining 351 LGAs to be within the Green Alert (Low Probable Flood Risks areas).

It was also predicted that some coastal States, including Delta, Lagos, and Bayelsa to experience coastal flooding due to rise in sea level and tidal surge which could impact fishing, habitation and coastal transportation. Flash and

Urban Floods were also predicted to be expected to occur in some locations such as Birnin–Kebbi, Sokoto, Kaduna, Gombe, Yola, Makurdi, Abuja, Lafia, Asaba, Port Harcourt, Yenagoa, Lagos, Ibadan, Abeokuta, Benin City, Oshogbo, Ado-Ekiti, Abakaliki, Awka, Nsukka, Calabar, Owerri, Kano, and major cities with poor drainage systems.

In order to sustain and improve on the information provided by AFO, it becomes necessary to evaluate the predictions of AFO in terms of the floods that actually occurred within the country during the year upon which the AFO predictions were predicted, taking into consideration the resultant effects of the recommended mitigation measures that could prevent or reduce the flood events and their consequences.

2.2 SITUATION OF FLOOD FLOWS DURING THE 2021/2022 HYDROLOGICAL YEAR

2.2.1. Transboundary River Niger Flow Situation in Niamey, Niger Republic

The River Niger in Niamey, Niger Republic, upstream of Nigeria recorded a maximum Water Level (WL) of White flood that occurred during the rainy season to be 5.14m corresponding to the discharge of 1,535 m^3/s on 27th August, 2021. The Black Flood flow that occurred during the dry season has a maximum WL of 5.53m corresponding discharge of 1,890 m^3/s recorded on 15th January, 2022. The peak Black flood flow WL during the 2021/2022 Hydrological Year was higher than the peak White flood occurrence in Niamey as shown in Figure 2.1.

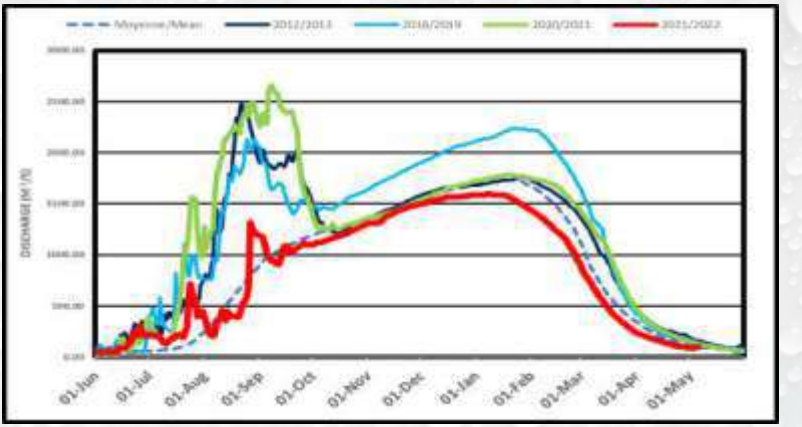


Figure 2.1: Transboundary Comparative Hydrographs of River Niger in Niamey.

The Comparative Hydrograph of river Niger during the 2021/2022 Hydrological Year in Niamey was lower than those in 2012/2013,2019/2020 and 2020/2021 as shown by comparative hydrograph in Figure 2.1.

2.2.2 River Niger Flow Situation at Jiderebode, Upstream Kainji and Jebba Dams

The flow of River Niger at Jiderebode in Kebbi State, upstream Kainji and Jebba dams in Nigeria, recorded a maximum White flood WL of 4.85m corresponding to discharge of 2814 m^3/s on the 7th September, 2021 while the Black flood maximum WL was 3.30m corresponding to discharge of 1919 m^3/s recorded on 27th January, 2021. The River Niger flow during the 2021/2022 Hydrological Year at Jiderebode was lower than those recorded in 2012/2013, 2019/2020 and 2020/2021, Hydrological Years as shown by comparative hydrograph in Figure 2.2.

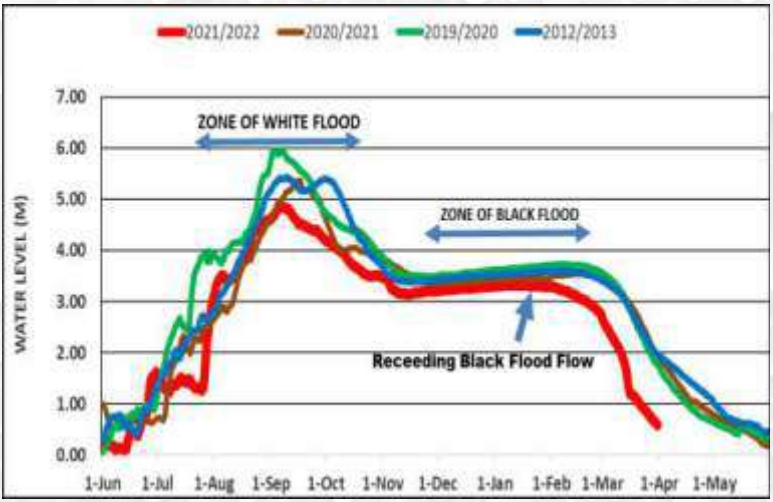


Figure 2.2: Comparative Hydrographs of River Niger at Jiderebode

2.2.3 River Niger and Benue Flow Situation at Lokoja

The flow of River Niger at Lokoja (Kogi State), confluence of Rivers Niger and Benue during the 2021/2022 Hydrological Year has a maximum WL of 8.82m corresponding to a discharge of about 14,126 m^3/s recorded on 19th September, 2021. The total volume of flow of both the Rivers Niger and Benue at Lokoja was about 159 billion cubic metres during the 2021/2022 Hydrological Year which was lower than those in 2012/2013, 2019/2020, 2020/2021 as shown by Comparative Hydrograph in Figure 2.3.

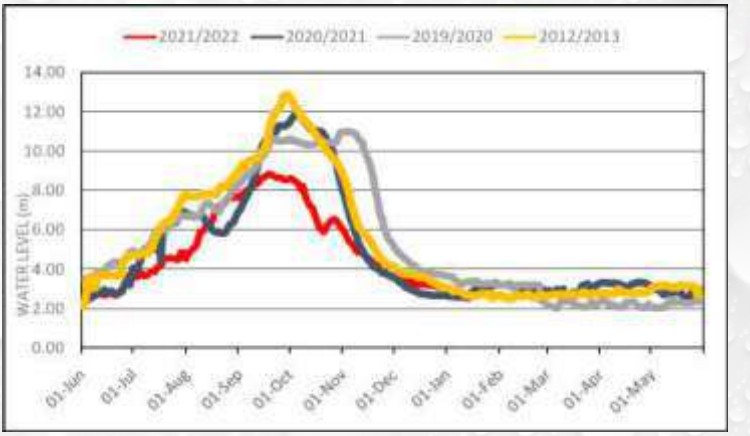


Figure 2.3: Comparative Hydrographs of Rivers Niger at Lokoja.

2.2.4 River Benue Flow Situation at Makurdi

The flow of River Benue at Makurdi, Benue State, has a maximum WL of 9.91m corresponding to a discharge of about 9,047 m^3/s recorded on 1st December, 2021.

The Comparative Hydrograph of Benue flow during the 2021/2022 Hydrological Year at Makurdi was lower than those in 2012/2013,2019/2020 and 2020/2021 as shown by comparative hydrograph in Figure 2.4.

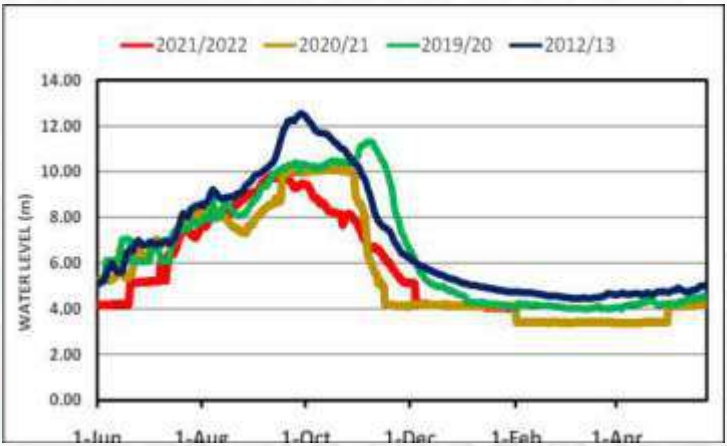


Figure 2.4: Comparative Hydrograph of River Benue at Makurdi

2.3 EVALUATION OF 2021 FLOOD INCIDENCES

The 2021 flood forecast was classified into three (3) categories: Highly Probable, Probable and Less Probable Risk Areas. The actual flooded LGAs for 2021 are shown in Figure 2.5 while Table 2.7 shows the analysis of 2021 flood occurrence in Nigeria

Figure. 2.5: Picture showing Flooded Lagos/Abeokuta Expressway by Ile-Epo market in Lagos (Guardian Newspaper, 2021)

Figure 2.10: Picture showing Flood damages, Abuja – FCT, 2021.

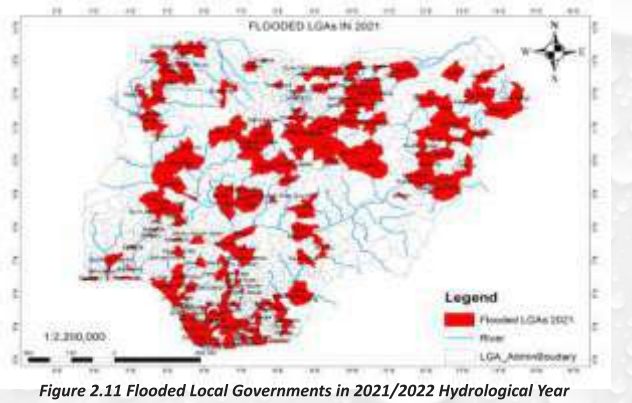


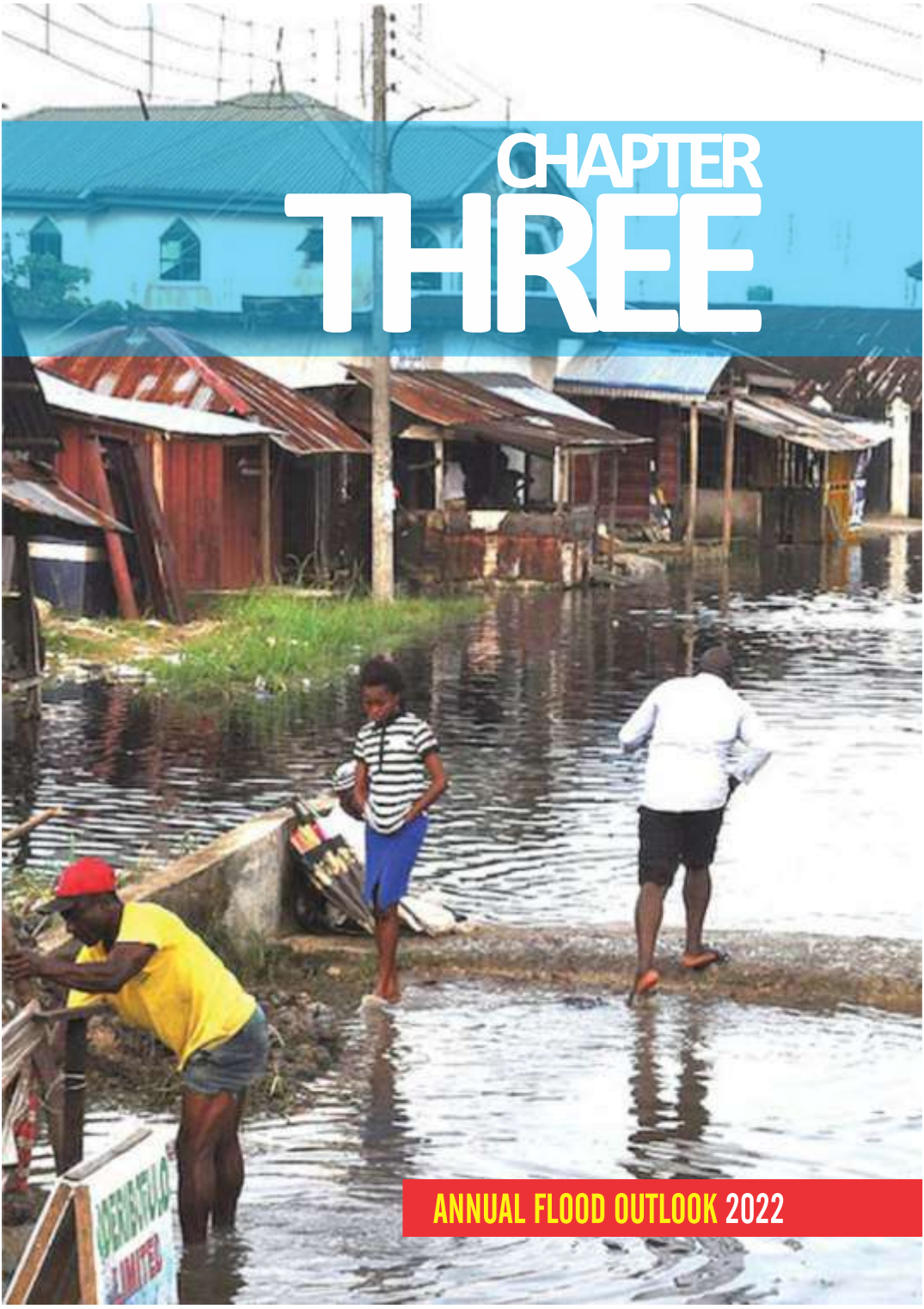
Figure 2.11 Flooded Local Governments in 2021/2022 Hydrological Year

Table 2.1 Analysis of 2021 Flood Occurrence

S/N	Indictors	Number of Affected Local Government Area
1.	Predicted	423
2.	Actual (reported)	192
3.	Occurred not Predicted	70
4.	Predicted not Occurred	291
5.	Predicted Occurred	132

From Table 2.1 above, a total of 423 LGAs in 36 states including FCT were predicted to be prone to flooding in 2021, while a total of 192 flood occurrence was reported (See Appendix 1). Additionally, a total of 70 LGAs experienced flooding that was not predicted by 2021 AFO. It should however be noted that several factors could be responsible for the variation in 2021.

CHAPTER THREE



ANNUAL FLOOD OUTLOOK 2022

3.0 2022 ANNUAL FLOOD OUTLOOK (AFO)

3.1 Preamble

Hydrological models are simplified, conceptual representations of a part of the hydrological cycle. They are primarily used for hydrologic predictions and for understanding of hydrologic processes. They are also useful tools for studying the effects of human activities and climate change on hydrology.

In hydrological research, the performance of a hydrological model varies for different catchments as a result of distinct characteristics and scales. In order to obtain good results for hydrological research, suitable (well performing) hydrological models are required for different catchment sizes and data sets.

For the 2022 Annual Flood Outlook, two (2) models were adopted to simulate basins' hydrological processes. The models are: Hydrologic Engineering Center's Hydraulic Modeling System (HEC-HMS) and Soil Water Assessment Tools (SWAT). The models were calibrated in such that they do not only capture the floods generated by excessive rainfall within the Nigeria boundaries but also the contributions from external inflows from Jiderebode (River Niger) and Wuroboki (River Benue). The external inflows are routed through the river system for accurate flood simulation.

The HEC-HMS model is actively developed to date by the United States Army Corps of Engineers (USACE) and is capable of using several geo-spatial database. The Soil and Water Assessment Tool (SWAT) Model is able to simulate the quality and quantity of surface and ground water and predict the environmental impact of land use, land management practices and climate change. SWAT is widely used in assessing soil erosion prevention and control, non-point source pollution control and regional management in watersheds. It can be operationalized on GIS environment and accept geo-spatial information data sources.

The two Models were selected based on their wide application in various parts of the world with satisfactory results over the years. The models are simple to use, efficient in flood flows simulation, and are much more reliable using geologic and catchment factors in their applications.

Using different models provide deeper insights to hydrological processes and the analysis of these models can reduce error with optimal bias and uncertainties within simulation of various components in the basin.

3.2 DATA USED AND SOURCES

Daily flow records (stage and discharge) from stations at Wuroboki, Jiderebode, Kainji, Jebba, Wuya, Afikpo, Ikom, Okitipupa, Siluko, Katsina-Ala, Apoje, Abeokuta, Shiroro, Baro, Umaisha, Dapchi, Ebba, Kurawa, Zungeru, Malabu, Otuocha, Onitsha, Makurdi, Geidam, Kende, Dadinkowa, Ologbo, Ogun, Chokocho, Tiga, Hadejia, Umuopara and Lokoja in the eight (8) Hydrological Areas of the country;

SWAT Model

- Grided daily rainfall data downloaded, httpd://esg-dn1.nsc.liu.se/search/cordex. Scenarios: RCP 4.5 and 8.5. Year 2022.
- Measured daily rainfall and temperature data, NiMet.
- 2022 NiMet Seasonal Climate Prediction (SCP).
- Soil andLanduse.
- DEM with vertical accuracy of +/-5meters (SRTM).

HEC-HMS Model

The input data include soil characteristics, topography (Shuttle Radar Topography Mission (SRTM) data with a vertical accuracy specification of +/- 5 meters, and available in resolutions of 3 arc-second (90m) data around Nigeria from the USGS website was downloaded), land use and land cover data and rainfall data. The gridded satellite daily rainfall data (the Climate Hazards Group InfraRed Precipitation with Stations (CHIRPS)) was used for calibration of the HEC-HMS model. Calibration of the HEC-HMS model at each hydrological area (HA) was based on discharge record at stations within the respective HA. Flows were simulated based on Seasonal Climate Prediction (SCP2022) published by NiMet (2022). The probable flood zone was determined based on statistical analysis of the simulated flows and DEM using GIS package.

The impact of trans-boundary inflow to HA2 and HA3 was considered based on probabilistic analysis of historical inflow and the recorded inflow in the first quarter at Jiderebode and Wuroboki (NBA).

Figure 3.1: Map Showing the Location of Data Collection Platforms (DCPs)

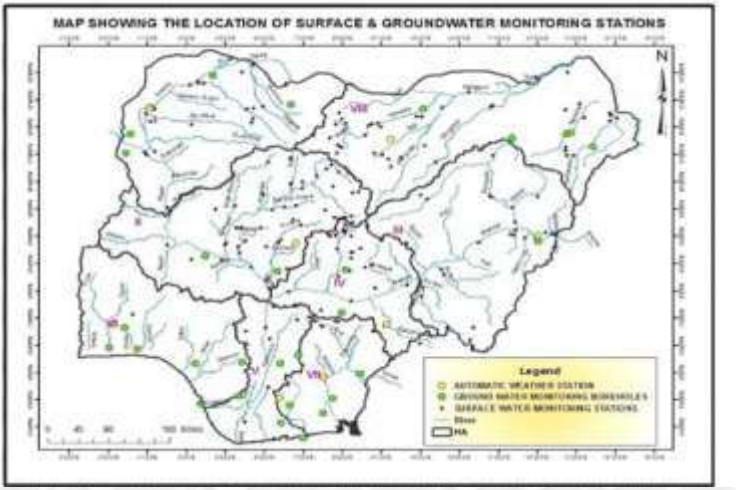


Figure 3.2: Network of NIHSA Ground water and Weather Stations

The 2022 AFO was developed from the aggregation of the flood outlook of three (3) different scenarios covering the duration of the rainy season in Nigeria. These Include;

- Scenario I: Flood Outlook for the Months of April-June (AMJ).
- Scenario II: Flood Outlook for the Months of July – September (JAS)
- Scenario III: Flood Outlook for the Months of October - November (ON)

These three (3) scenarios were cumulatively aggregated to produce the 2022 AFO. The whole essence is to gradually move towards having a dynamic flood forecast, prediction and Early Warning System (EWS) that can spatial-temporally aid developmental activities across sectors in Nigeria.

3.3 Overview of 2022 Annual Flood Outlook

In this section, an overview of the eight (8) Hydrological Areas with their hydrological and hydrogeological features, as well as flood simulations for 2022 will be examined and discussed.

3.3.1 Hydrological Area I (Niger North)

Hydrological Area I (Figure 3.3) comprises of Kebbi, Zamfara, Sokoto, and parts of Niger and Katsina States.This is drained mainly by the Rivers Niger, Sokoto, Rima, Gulbin Ka and Zamfara. It has two distinct geological features, mainly the Precambrian Crystalline Basement which covers 30% of the area and Sedimentary terrain which covers 70%.

The states that are categorised as Highly Probable in HA I are Kebbi, Sokoto, Zamfara and part of Niger. The details of the Highly Probable and Probable flood risk areas in Hydrological Area I are shown below in figure 3.3-3.5 and Table 3.1 and 3.2.

Probable Flood Risk LGAs in HA I (Upper Niger)

Figure 3.3 Seasonal Flood Outlook for AMJ.

Figure 3.4 Seasonal Flood Outlook for JAS

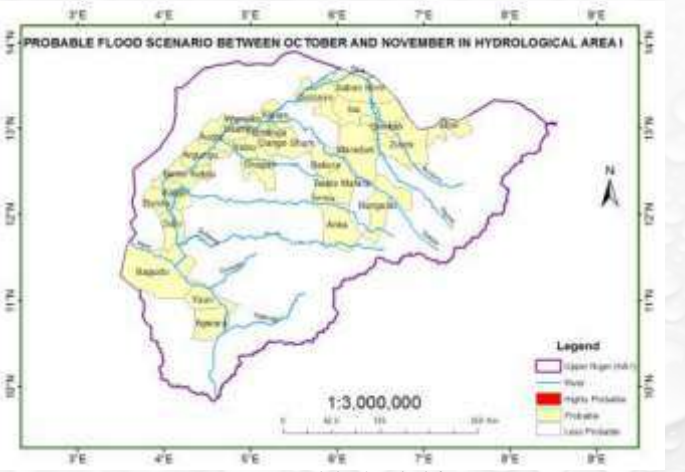


Figure 3.5 Seasonal Flood Outlook for ON

Table 3.1: Highly Probable Flood Risk LGAs in HA I

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Kebbi	Bagudo	Bagudo, Birnin Kebbi	
2.	Niger	Borgu	Borgu	
3.	Sokoto		Goronyo, Sabon Birni, Isa, Shagari	
4.	Zamfara		Zurmi	

Table 3.2: Probable Flood Risk LGAs in HA I

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Kastina		Bakori, Batsari, Kaita, Kurfi	Jibia
2.	Kebbi	Suru, Wasagu/Danko, Fakai, Ngaski, Yauri	Suru, Koko/Besse, Augie, Dandi, Ngaski, Kalgo, Bunza, Yauri	Bunza, Yauri
3.	Niger	Agwara	Agwara	Agwara
4.	Sokoto			Goronyo, Bodinga, Sokoto North, Sabon Birni, Isa, Sokoto South, Silame, Shagari, Yabo, Dange-Shuni, Kware, Wamako
5.	Zamfara			Anka, Bakura, Maradun Bungudu, Talata Mafara, Shinkafi, Zurmi

3.3.2 Hydrological Area II (Niger Central)

Hydrological Area II covers Niger, Kwara, Kaduna, FCT and part of Kogi States. The geology of the Hydrological Area II comprises of about 20% Sedimentary rocks and 80% Basement complex rocks. The main rivers in the area are: Niger, Kaduna, Gurara, Usuma, Kampe and Awun.

In Hydrological Area II, Kogi, Kwara, Kaduna, FCT and part of Niger are expected to be in the Highly Probable category. The details of Highly Probable and Probable flood risk areas are shown in Figure 3.4 – 3.6, Tables 3.3 and 3.4.

Probable Flood Risk LGAs in HA II (Niger Central)

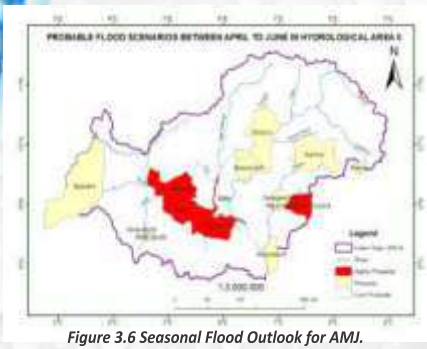


Figure 3.6 Seasonal Flood Outlook for AMJ.

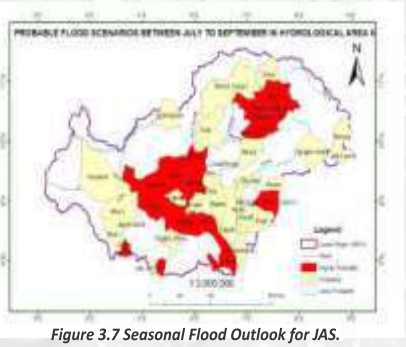


Figure 3.7 Seasonal Flood Outlook for JAS.

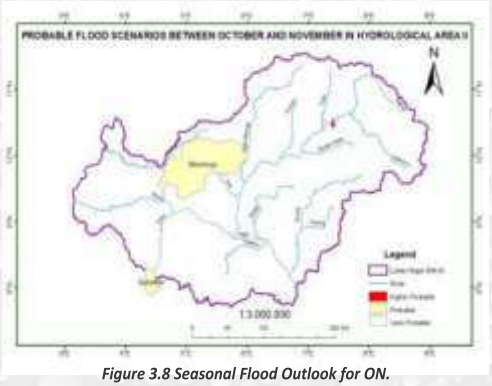


Figure 3.8 Seasonal Flood Outlook for ON.

Table 3.3: Highly Probable Flood Risk LGAs in HA II

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Ekiti		Oye	
2.	FCT Abuja	Municipal Area Council	Municipal Area Council	
3.	Niger	Mokwa	Mokwa, Gbako,Wushishi, Lavun	
4.	Kaduna		Igabi, Kaduna North, Chikun, Kaduna South	Kaduna South
5.	Kogi		Lokoja	
6.	Kwara	Pategi, Edu	Pategi, Offa, Edu, Oyun	

Table 3.4: Probable Flood Risk LGAs in HA II

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Ekiti		Ido-Osi	
2.	FCT Abuja	Gwagwalada	Kwali, Bwari, Abaji, Kuje	
3.	Niger	Bida, Shiroro, Bosso	Kontagora, Gurara, Katcha, Muya, Edati, Agaie, Chanchaga, Rafi, Lapai	Mashegu
4.	Kaduna	Kachia, Kaura	ZangonKataf, Birnin Gwari, Giwa	
5.	Kogi	Kotonkarifi	Kotonkarifi, Yagba West	
6.	Kwara	Ilorin West, Baruten, Ilorin South	Kaiama, Asa, Moro, Ilorin East	
7.	Oyo			Surulere
8.	Plateau		Jos South, Bassa	

3.3.3. Hydrological Area III (Upper Benue)

Hydrological Area III comprises Adamawa, Taraba, Gombe, Bauchi and part of Plateau and Borno States. It is made up of about 70% Sedimentary and 30% Basement. The major rivers are Benue, Gongola, Taraba, Donga, Faro, and Mayo-Kebbi.

The Highly Probable States are Gombe and Taraba, while the States under the probable risk areas are Adamawa, Borno, Gombe, Plateau and Taraba. The details are shown in Figure 3.9 and 3.10 above as well as Tables 3.5 and 3.6.

Probable Flood Risk LGAs in HA III (Upper Benue)

Figure 3.9 Seasonal Flood Outlook for JAS.

Figure 3.10 Seasonal Flood Outlook for ON.

Table 3.5: Highly Probable Flood Risk LGAs in HA III

S/N	State	LGAs	
		July – September	October – November
1.	Adamawa	Yola North, Yola South, Numan, Larmurde, Demsa	
2.	Bauchi	Alkaleri	
3.	Gombe	Funakaye	
4.	Taraba	Gassol, Ardo-Kola, Jalingo	Ibi, Wukari
5.	Yobe	Fika	

Table 3.6: Probable Flood Risk LGAs in HA III

S/N	State	LGAs	
		July – September	October – November
1.	Adamawa	Shelleng, Guyuk, Fufore, Gombi	
2.	Bauchi	Bauchi, Tafawa-Balewa	
3.	Borno	Shani	
4.	Plateau	Jos East	
5.	Taraba	Gashaka, Bali, Karim Lamido, Kurmi, Lau, Donga	Taraba

3.3.4 Hydrological Area IV (Lower Benue)

Hydrological Area IV covers Plateau, Nasarawa, Benue, Taraba and parts of Kogi and Kaduna states. The Highly probable states consist of Benue, Kogi, Nasarawa and Taraba. The details of Highly Probable and Probable flood risk areas in Hydrological area IV are shown in Figures 3.11 -3.13 as well as tables 3.7 and 3.8.

Probable Flood Risk LGAs in HA IV (Lower Benue)

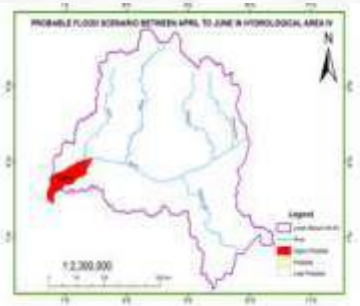


Figure 3.11 Seasonal Flood Outlook for AMJ.

Figure 3.12 Seasonal Flood Outlook for JAS

Figure 3.13 Seasonal Flood Outlook for ON.

The area is covered by 50% Sedimentary and 50% Basement and is drained mainly by Rivers Benue, Kastina-Ala, Dep and Mada.

Table 3.7: Highly Probable Flood Risk LGAs in HA IV

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Benue		Bukuru, Agatu, Makurdi, Tarka, Gwer West, Logo, Guma	Guma
2.	Kogi	Bassa	Bassa, Omala	
3.	Nasarawa		Nasarawa, Toto, Doma, Awe	Toto

Table 3.8: Probable Flood Risk LGAs in HA IV

S/N	State	LGAs	
		July – September	October – November
1.	Benue	Katsina-Ala, Ushongo, Kwande	Kwande
2.	Nasarawa	Keana, Kokona, Karu, Keffi, Lafia	
3.	Kaduna	Jema'a	
4.	Plateau	Shendam	
5.	Taraba	Takum	Takum

3.3.5 Hydrological Area V (Niger South)

Hydrological Area V includes: Anambra, Bayelsa, Delta, Edo, Enugu, Imo, Rivers and parts of Kogi State. The geology is 90% Sedimentary and 10% Basement. The major Rivers are: Niger, Anambra, Ase, Orashi, Nun and Forcados.

The States expected to be Highly Probable are Anambra, Bayelsa, Delta, Edo, Imo, Kogi and Rivers. Details of Highly Probable and Probable flood risk areas in Hydrological Area V are shown in Figure 3.14 -3.15 as well as Tables 3.9 and 3.10.

Probable Flood Risk LGAs in HA V (Niger South).

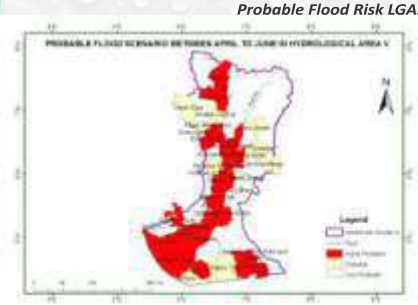


Figure 3.14 Seasonal Flood Outlook for AMJ.

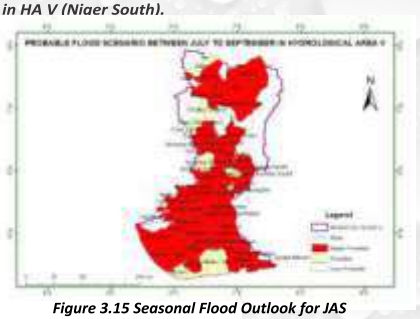


Figure 3.15 Seasonal Flood Outlook for JAS

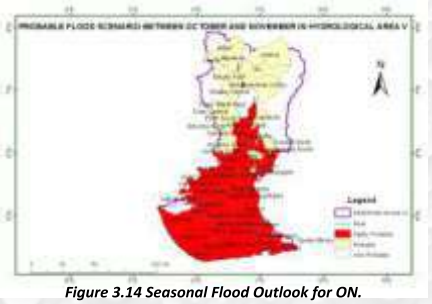


Figure 3.14 Seasonal Flood Outlook for ON.

Table 3.9: Highly Probable Flood Risk LGAs in HA V

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Anambra	Ogbaru, Idemili North, Oyi Anambra East, Onitsha North, Onitsha South, Anambra West	Ihiala, Ogbaru, Anaocha, Idemili North, Oyi, Anambra East, Onitsha North, Orumba South, Njikoka,Orumba North, Ayamelum, Aguata, Awka South, Idemili South, Onitsha South, Anambra West	
2.	Bayelsa	Southern Ijaw, Ekeremor, Kolokuma/Opokuma, Yenegoa, Sagbama, Nembe	Southern Ijaw, Ekeremor, Kolokuma/Opokuma, Yenegoa, Sagbama, Ogbia, Nembe	Brass, Southern Ijaw, Nembe
3.	Delta	Oshimili South, Patani, Ndokwa East, Ughelli South, Oshimili North	Ndokwa West, Aniocha North, Oshimili South, Patani, Ndokwa East, Ughelli South, Ughelli North, Oshimili North, Isoko North, Isoko South	
4.	Edo	Etsako East, Esan South-East	Etsako East, Esan South-East	
5.	Imo		Oguta, Ideato South, Ideato North, Njaba, Nkwerre, Ohaji/Egbema, Nwangele, Isu, Orsu, Oru East, Orlu	Ideato North, Isu
6.	Kogi	Ajaokuta	Idah, Dekina, Igalamela-Odolu, Ajaokuta, Ofu, Okene	Dekina
7.	Rivers	Ogba/Egbema/Ndoni, Degema, Bonny, Port-Harcourt, Okrika, Asari-Toru	Ahoada East, Ogba/Egbema/Ndoni, Andoni, Degema, Ogu Bolo, Ahoada West, Bonny, Abua/Odual, Port-Harcourt, Obio/Akpor, Ikwerre, Gokana, Okrika, Asari-Toru, Eleme, Opobo/Nkoro, Emuoha	Dekina, Andoni, Degema, Ogu Bolo, Bonny, Port-Harcourt, Gokana, Okrika, Asari-Toru, Opobo/Nkoro, Akuku Toru

Table 3.10: Probable Flood Risk LGAs in HA V

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Anambra	Nnewi North, Nnewi South, Awka North	Nnewi North, Nnewi South, Ekwusigo, Dunukofia	Ayamelum, Awka South
2.	Bayelsa	Brass	Brass	
3.	Delta	Aniocha South	Aniocha South	Aniocha North
4.	Edo	Etsako Central, Esan Central, Esan North-East, Owan East	Etsako Central, Esan Central, Esan North-East	Etsako East, Esan South-East
5.	Enugu	Ezeagu, Uzo-Uwani, Awgu, Oji-River		
6.	Imo	Oru West	Oru West	Oru West
7.	Kogi		Adavi	Dekina, Igalamela-Odolu, Ajaokuta, Ofu, Okene
8.	Rivers	Akuku Toru	Akuku Toru	

3.3.6 Hydrological Area VI (Western Lithoral)

Hydrological Area VI comprises of the following States: Lagos, Ogun, Oyo, Osun, Ondo, Edo and parts of Delta and Ekiti States. The Area is 60% Basement and 40% Sedimentary and is drained by Rivers: Yewa, Ogun, Osun, Shasha, Omi, Owena, Osse and Ossiomo.

The Highly Probable States are Delta, Ekiti, Lagos, Ogun, Ondo, Osun and Oyo. The details of the Highly Probable and Probable flood risk areas in Hydrological Area VI are shown in Figure 3.16 -3.18 as well as Tables 3.11 and 3.12 below.

Probable Flood Risk LGAs in HA VI (Western Littoral)

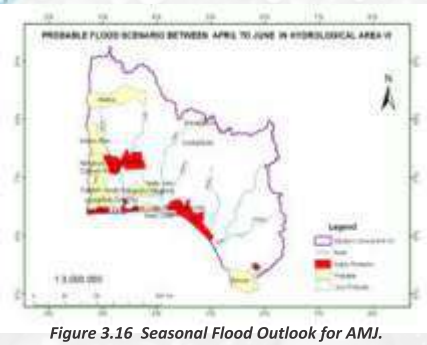


Figure 3.16 Seasonal Flood Outlook for AMJ.

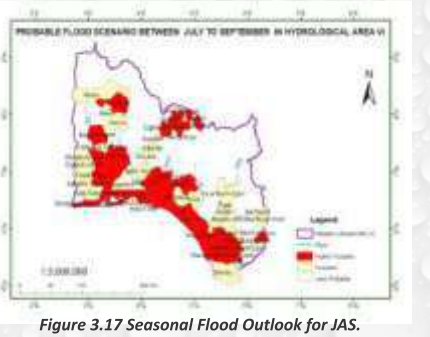


Figure 3.17 Seasonal Flood Outlook for JAS.

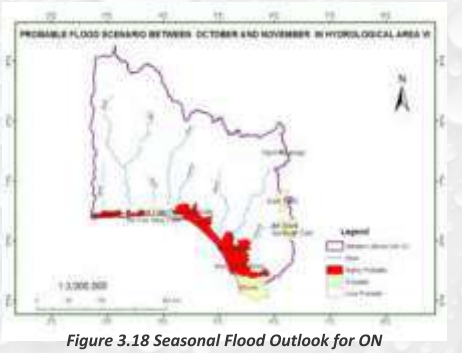


Figure 3.18 Seasonal Flood Outlook for ON

Table 3.11: Highly Probable Flood Risk LGAs in HA VI

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Delta	Udu	Sapele, Warri South-West, Warri South, Ukwuani, Udu, Okpe, Warri North, Uvwie	Warri South-West, Udu, Warri North
2.	Ekiti		Ijero	
3.	Lagos	Lagos Mainland, Lagos Island, Kosofe, EtiOsa, Apapa, Badagry, Surulere, Shomolu, Ajeromi/Ifelodun	Lagos Mainland, Lagos Island, Alimosho, Ikeja, Kosofe, EtiOsa, Apapa, Ojo, Mushin, Oshodi/Isolo, Agege, Ikorodu, Ifako/Ijaye, Epe, Badagry, Surulere, Shomolu, Ajeromi/Ifelodun	Lagos Mainland, Lagos Island, EtiOsa, Apapa, Ojo, Badagry, Surulere, Ajeromi/Ifelodun
4.	Ogun	Abeokuta North, Odeda, Ogun waterside	Ewekoro, Abeokuta South, Abeokuta North, Odeda, Ogun waterside, Obafemi, Owode, Ijebu East, Ifo	Ogun waterside
5.	Ondo	Ilaje	Odigbo, Ilaje, Ese Odo	Ilaje
6.	Osun		OdoOtin, Obokun, Irepodun, Ilesha West, Olorunda, Ila, Osogbo, Ede North, Boripe, Ifelodun, Ede South, Egbedore	
7.	Oyo		Itesiwaju, Ibarapa North	

Table 3.12: Probable Flood Risk LGAs in HA VI

S/N	State		LGAs	
		April – June	July – September	October – November
1.	Delta	Burutu	Ethiope East, Ethiope West, Burutu, Ika North-East, Ika South	Burutu, Ika North East, Ika South
2.	Edo		Ikpoba-Okha, Egor, Oredo, Ovia North-East	Esan West
3.	Kogi			Ogori/Magongo
4.	Lagos	Ibeju Lekki	AmuwoOdofin, Ibeju Lekki	Ibeju Lekki
5.	Ondo		Irele, Okitipupa	
6.	Ogun	Odogbolu, Egbado North, Egbado South, Ado Odo/Ota, Ipokia, Shagamu, ImekoAfon, Ijebu ode	Egbado North, Egbado South, Ado Odo/Ota, Shagamu, Ijebu North East, Ijebu ode, Ijebu North	
7.	Osun	Boluwaduro, Ilesha East	Irewole, Isokan, Orolu, Ilesha East, Boluwaduro, Aiyedire	
8.	Oyo	Atisbo	Ona ara, Ibarapa Central, Kajola, Egbeda, Atisbo, Iseyin	

3.3.7 Hydrological Area VII (Eastern Littoral)

Hydrological Area VII comprises of Abia, Anambra, Imo, Enugu, Eboyi, Cross-River, Akwa-Ibom and Rivers States. The area is covered by 90% Sedimentary and 10% Basement and drained by Imo, Quo-Iboe, Calabar, Ivo, Asu, Cross River and Ebonyi River.

The State under the Highly Probable category are Abia, Akwa-ibom, Cross River, Ebonyi, Imo and Rivers. The details of Highly Probable and Probable flood risk areas in Hydrological Area VII are shown in Figure 3.19 –3.21 as well as Tables 3.13 and 3.14.

Probable Flood Risk LGAs in HA VII (Eastern Lithoral).

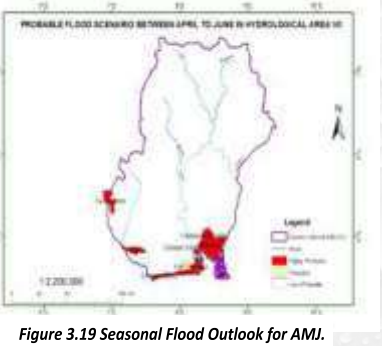


Figure 3.19 Seasonal Flood Outlook for AMJ.

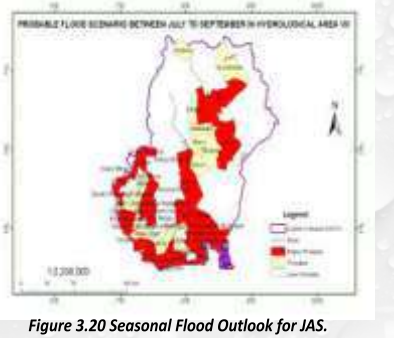


Figure 3.20 Seasonal Flood Outlook for JAS.

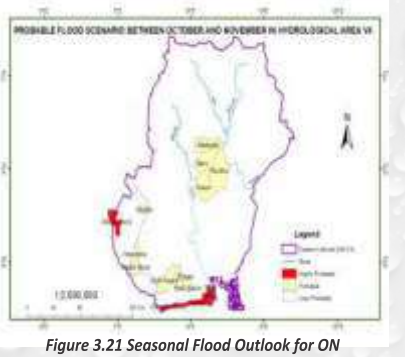


Figure 3.21 Seasonal Flood Outlook for ON

Table 3.13: Highly Probable Flood Risk LGAs in HA VII

S/N	State	LGAs		
		April – June	July – September	October – November
1.	Abia		Osisioma Ngwa, Obi Nwga, Umu-Nneochi, Umuahia South, Umuahia North, Isiala-Ngwa North, Isiala-Ngwa South	
2.	Akwa Ibom	Mbo, Oron, Eastern Obolo, Ibeno	Mkpat Enin, Nsit Atai, Okobo, Mbo, Udung Uko, Eket, Onna, Oron, Eastern Obolo, Itu, Ikot Abasi, Ibiono Ibom, Uruan, Ibeno, Urue Offong/Oruko	Mbo, Eastern Obolo, Ibeno
3.	Cross River	Calabar South, Calabar Municipal, Akpabuyo	Calabar South, Calabar Municipal, Akpabuyo, Abi, Yala, Biase, Odukpani,Ikom	
4.	Ebonyi		Izzi, Afikpo North	
5.	Imo	Owerri West	Owerri West, Mbatoli, Okigwe, Unuimo, Isiala Mbano	Owerri West
6.	Rivers	Oyigbo	Oyigbo, Etche, Tai, Khana	

Table 3.14: Probable Flood Risk LGAs in HA VII

S/N	State		LGAs	
		April - June	July – September	October – November
	Abia		Ukwa East, Ukwa West	Ukwa West
	Akwa Ibom	EsitEket	Nsit Ubium, Abak, Oruk Anam, Etinan, Ukanafun, Uyo, Ibesikpo Asutan	Nsit Ubium, Oruk Anam, Etinan
	Benue		Konshisha, Chimini	
	Cross River		Yakurr, Obubra	Yakurr, Obubra
	Ebonyi		Ebonyi, Ikwo, Abakaliki	Ikwo, Abakaliki
	Imo		Ngor-Okpala, Ihitte/Uboma, Ezinihitte, Aboh-Mbaise, Obowo	Obowo
	Rivers		Omumma	Omumma

3.3.8 Hydrological Area VIII (Chad Basin)

Hydrological Area VIII (Figure 3.10) comprises of Kano, Jigawa, Yobe, Borno. The geology is made up of 80% Sedimentary and 20% Basement rocks. Major Rivers in the area are: Hadejia, Jama'are, Komadugu-Yobe, Yedseram, Ngadda and Dingaiya.

The States under the Highly Probable category are Bauchi, Jigawa, Kano and Yobe. The details of Highly Probable and Probable flood risk areas in Hydrological Area VIII are shown in Figure 3.22 – 3.23 as well as Tables 3.15 and 3.16.

Probable Flood Risk LGAs in HA VIII (Chad Basin)

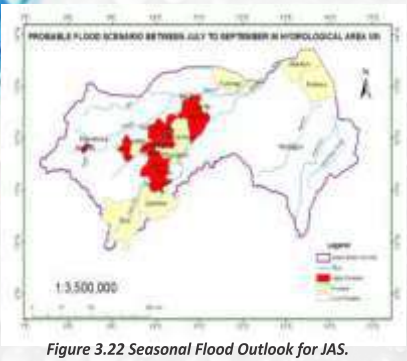


Figure 3.22 Seasonal Flood Outlook for JAS.

Figure 3.23 Seasonal Flood Outlook for ON.

Figure 3.15 Highly Probable Flood Risk LGAs in HA VIII

S/N	State	LGAs	
		July – September	Oct3ober – November
1.	Bauchi	Jama'are, Itas/Gadau, Giade, Shira, Zaki	
2.	Jigawa	Gwaram, Dutse, Kafin Hausa	
3.	Kano	Madobi	
4.	Yobe	Jakusko	

Table 3.16: Probable Flood Risk LGAs in HA VIII

S/N	State	LGAs	
		July – September	October – November
1.	Bauchi	Gamawa, Ganjuwa, Toro, Katagum	Misau, Darazo
2.	Borno	Maiduguri, Abadam, Kukawa	Dikwa
3.	Jigawa	Kiyawa	Guri, Kiri Kasama, Hadejia, Auyo, Miga, Biriniwa
4.	Kano	Nasarawa	Tofa, Gabasawa, Dawakin Tofa, Dawakin Kudu, Wudil, Kura
5.	Yobe	Barde, Yunusari	Barde, Borsari, Yunusari

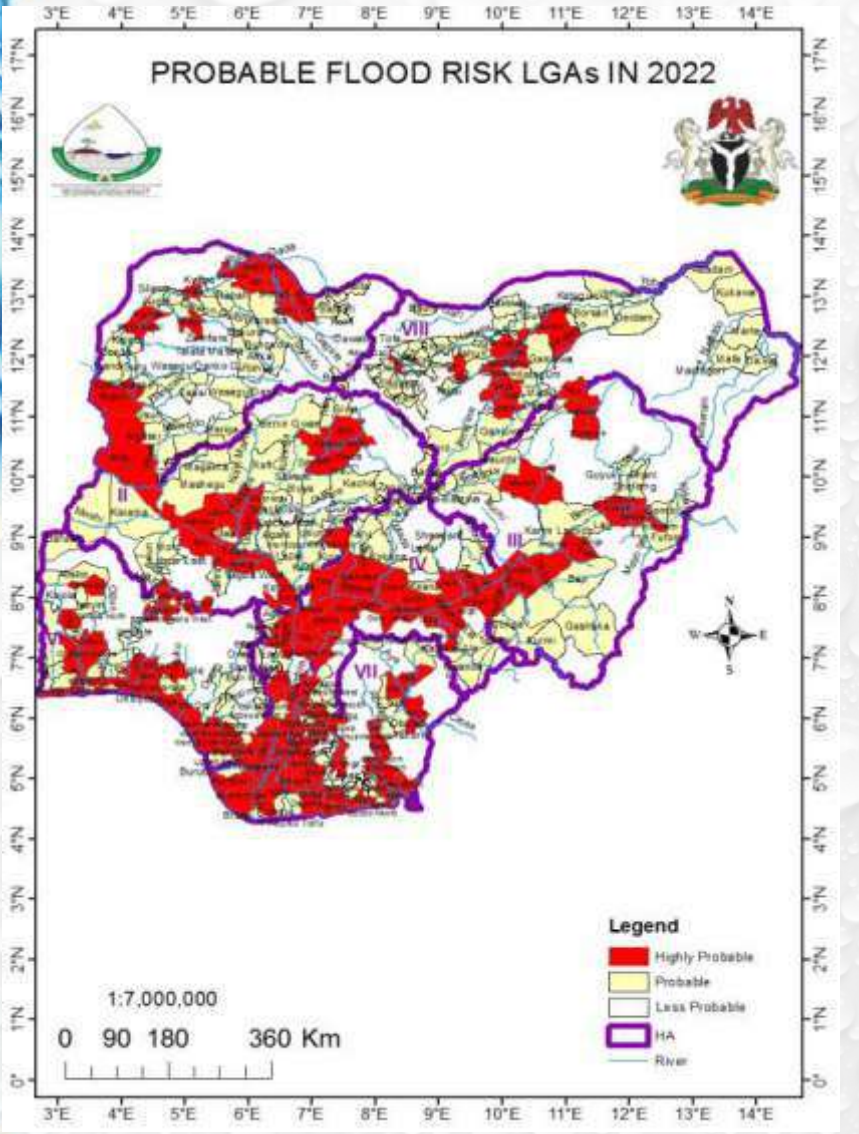


Figure 3.24 Map of Flood Risk Local Government Areas in 2022

The expected areas of river flooding in 2022 are located in the following drainage basins: Benue, Niger, Anambra–Imo, Niger-Delta, Sokoto–Rima, Komadougu-Yobe, Ogun–Osun, Cross River and other sub–basins of the country. The predicted probable flood areal coverage in 2022 is expected to be higher than that of 2021 (Figure 3.24).

3.4 Flood Vulnerability

River channels across the nation were subjected to proximity analysis (buffering) and areas within a radius of 2km, 4km, and 6km were categorised as high, medium and low zones of flood vulnerability respectively (Figure 3.25). Using bottom up grided population estimate for Nigeria, (Version 1.2), a proximity analysis was carried out within 2km radius of the major rivers that traverse the country. Summary of vulnerable communities in each of the Hydrological Area is in Tables 3.17 – 3.24.

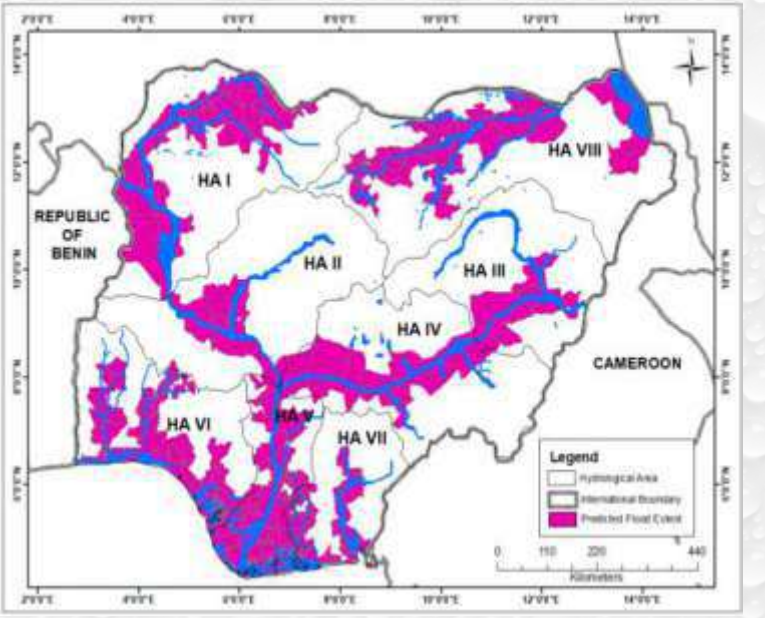


Figure 3.25: 2022 Flood Zone Vulnerability Map

Table 3.17: Communities/Villages Vulnerable at different level of Vulnerability in HA IHA I

HA I April-May-June Expected Flooding Scenarios					
			Affected Communities		
S/N	STATE	NO. of LGAs	2km	4km	6km
1	Kebbi	4	147	73	31
2	Niger	2	47	16	14
	Total	6	194	89	45
HA I July-August-Sept Expected Flooding Scenarios					
1.	Sokoto	1	7	4	1
2.	Kebbi	10	247	148	83
3.	Niger	2	53	17	16
	Total	13	307	169	100
HA I October-Nov Expected Flooding Scenarios					
1.	Sokoto	13	118	59	48
2.	Kebbi	8	214	121	60
3.	Niger	1	35	12	7
4.	Zafara	6	17	15	22
	Total	28	384	207	137

Table 3.18: Communities/Villages Vulnerable at different level of Vulnerability in HA II

HA II April-May-June Expected Flooding Scenarios					
			Affected Communities		
S/N	**STATE**	**NO. of LGAs**	**2km**	**4km**	**6km**
1.	**Niger**	1	17	7	2
2.	**Kwara**	2	16	8	11
3.	**Kogi**	1	24	11	8
	Total	**4**	**57**	**26**	**21**
HA II July-August-Sept Expected Flooding Scenarios					
1.	Niger	5	61	33	19
2.	Kwara	3	16	9	13
3.	Kogi	1	24	11	8
	Total	9	101	53	40

Table 3.19: Communities/Villages Vulnerable at different level of Vulnerability in HA III

HA III July-August-Sept Expected Flooding Scenarios					
			Affected Communities		
S/N	STATE	NO. of LGAs	2km	4km	6km
1.	Adamawa	8	91	50	36
2.	Borno	1	55	15	10
3.	Gombe	1	0	0	1
4.	Taraba	5	28	12	11
	Total	15	174	77	58

Table 3.20: Communities/Villages Vulnerable at different level of Vulnerability in HA IV

HA IV April-May-June Expected Flooding Scenarios					
			Affected Communities		
S/N	STATE	NO. of LGAs	2km	4km	6km
1.	Kogi	2	7	9	10
HA IV July-August-Sept Expected Flooding Scenarios					
			Affected Communities		
1.	Kogi	3	15	11	11
2.	Nasarawa	3	19	12	12
3.	Benue	7	39	48	34
4.	Taraba	2	37	23	7
	Total	15	110	94	64

Table 3.21: Communities/Villages Vulnerable at different level of Vulnerability in HA V

HA V April-May-June Expected Flooding Scenarios					
			Affected Communities		
S/N	STATE	NO. of LGAs	2km	4km	6km
1.	Anambra	7	18	5	8
2.	Bayelsa	6	114	38	34
3.	Delta	5	48	32	12
4.	Edo	2	5	1	4
5.	Kogi	3	26	5	4
6.	Rivers	6	78	27	5
	Total	29	289	108	67
HA V July-August-Sept Expected Flooding Scenarios					
			Affected Communities		
1.	Anambra	18	31	16	27
2.	Bayelsa	7	114	40	38
3.	Delta	12	52	38	24
4.	Edo	2	5	1	4
5.	Kogi	7	37	11	10
6.	Rivers	13	84	45	38
	Total	59	323	151	141
HA V October-November Expected Flooding Scenarios					
1.	Bayelsa	3	67	30	23
2.	Rivers	5	71	26	5
	Total	8	138	56	28

Table 3.22: Communities/Villages Vulnerable at different level of Vulnerability in HA VI

HA VI April-May-June Expected Flooding Scenarios					
			Affected Communities		
S/N	STATE	NO. of LGAs	2km	4km	6km
1.	Delta	3	35	12	12
2.	Ogun	4	78	48	46
3.	Ondo	1	12	10	9
4.	Osun	2	14	13	2
5.	Oyo	1	7	4	0
6.	Lagos	10	110	34	9
	Total	21	256	121	78
HA VI July-August-Sept Expected Flooding Scenarios					
			Affected Communities		
7.	Delta	8	61	36	41
8.	Edo	4	2	2	2
9.	Lagos	20	182	72	38
10.	Ogun	10	121	110	98
11.	Ondo	5	12	10	9
12.	Osun	20	60	69	64
13	Oyo	8	84	105	107
	Total	75	522	404	359
HA VI October-November Expected Flooding Scenarios					
			Affected Communities		
14.	Delta	2	29	9	5
15.	Lagos	10	123	32	13
16.	Ogun	1	17	7	8
17.	Ondo	1	12	10	9
18.	Total	14	181	58	35

Table 3.23: Communities/Villages Vulnerable at different level of Vulnerability in HA VII

HA VII April-May-June Expected Flooding Scenarios					
			Affected Communities		
S/N	STATE	NO. of LGAs	2km	4km	6km
1	Abia	1	0	2	2
2	Akwa Ibom	4	14	5	4
3	Cross River	3	15	8	11
4	Rivers	3	14	4	0
	Total	11	43	19	17
HA VII July-August-Sept Expected Flooding Scenarios					
			Affected Communities		
S/N	STATE	NO. of LGAs	2km	4km	6km
1	Abia	9	3	17	22
2	Akwa Ibom	15	29	28	43

3.	Cross River	8	117	57	42
4.	Ebovi	5	38	35	21
5.	Rivers	9	33	30	32
	Total	46	220	167	160
HA VII October-November Expected Flooding Scenarios					
			Affected Communities		
1.	Akwa Ibom	3	9	4	3
2.	Rivers	2	11	1	1
	Total	5	20	5	4

Table 3.24: Communities/Villages Vulnerable at different level of Vulnerability in HA VIII

Table 47	HA VIII July-August-Sept Expected Flooding Scenarios				
			Affected Communities		
S/N	STATE	NO. of LGAs	2km	4km	6km
1	Borno	2	2	4	5
2	Yobe	3	32	12	13
	Total	5	34	16	18
HA VIII October-November Expected Flooding Scenarios					
			Affected Communities		
1.	Bauchi	5	35	24	20
2.	Borno	5	2	5	6
3.	Jigawa	15	69	40	46
4.	Kano	25	50	43	37
5.	Yobe	6	59	5	6
	Total	56	215	117	115

3.5 Highly Probable Flood Risk Basins

The probable high flood risk basins are: Upper and Lower Niger, Upper and Lower Benue, Anambra–Imo, Niger–Delta, lower fringes of Ogun–Osun part of Cross River, Sokoto–Rima and Komadougu–Yobe. A total of Two hundred and thirty-three (233) LGAs are predicted Highly Probable for 2022/2023 Hydrological Year.

Table 3.25 CITIES WITH POTENTIAL EXTREME FLOOD IN 2022

S/N	CITY	STATE	HA
1	LAGOS	LAGOS	VI
2	ABEOKUTA	OGUN	VI
3	OSOGBO	OSUN	VI
4	IBADAN	OYO	VI
5	BENIN-CITY	EDO	VI
6	ASABA	DELTA	V
7	WARRI	DELTA	V
8	ONITSHA	ANAMBRA	V
9	PORT-HARCOURT	RIVERS	V
10	KADUNA	KADUNA	II
11	SOKOTO	SOKOTO	II
12	YOLA	ADAMAWA	III
13	ABAKALIKI	EBONYI	VII
14	BIRNI KEBBI	KEBBI	I
15	MAKURDI	BENUE	IV

3.6 Probable Flood Risk Areas

The level of floods in this category is expected to be moderate in terms of impact on the people. Two Hundred and Twelve (212) LGAs are predicted to fall within this category.

3.7 Coastal Flooding

Some coastal States: Rivers, Bayelsa, Cross River, Delta, Edo, Lagos, Ogun and Ondo are expected to experience coastal flooding due to rise in sea level and tidal surge which would impact on fishing, habitation and coastal transportation.

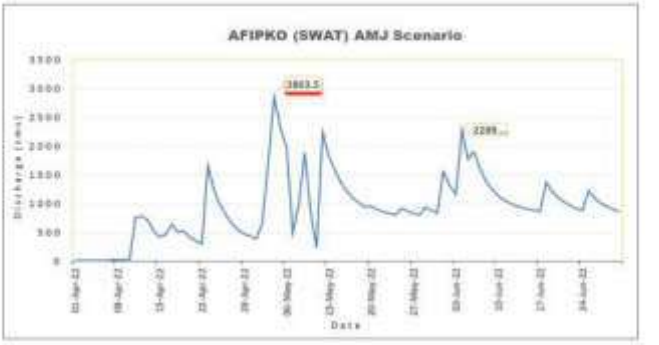
3.8 Flash and Urban Flooding

Flash and Urban Flood is also expected to occur in some locations such as: Lagos, Abeokuta, Osogbo, Ibadan, Benin-City, Asaba, Warri, Onitsha, Port-Harcourt, Kaduna, Sokoto, Yola, Abakaliki, Birni-Kebbi, Makurdi and other cities with poor drainage systems.

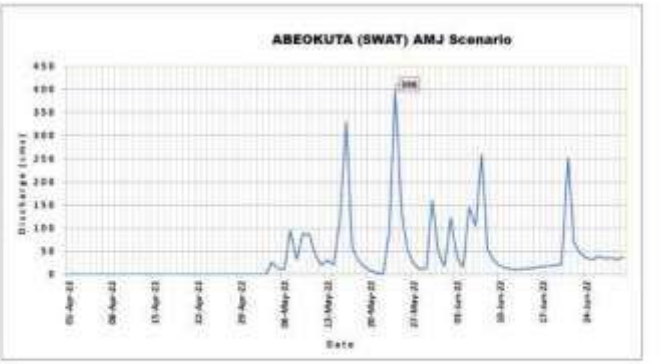
3.9 Simulated Hydrographs at selected stations

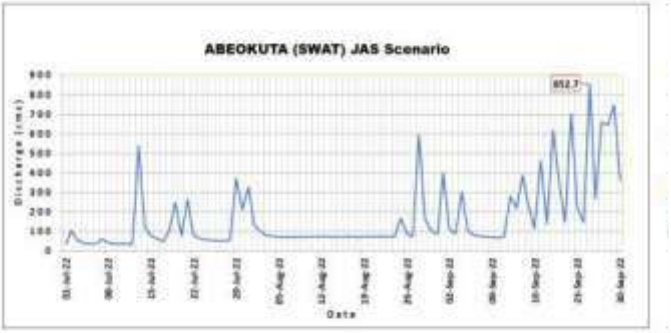
The simulated hydrographs of gauging stations at Afipko Lokoja, Ikom, Abeokuta Onitsha, Baro, Shiroro Kende, Umaisha, Kastina-Ala, Makurdi, Gasol Ibi Hadejia Figures 3.26 – 3.45 for SWAT and HEC-HMS models.

The peak flood flow for the year 2022 is expected to be significantly lower than that of year 2012 (reference flood events at all stations).

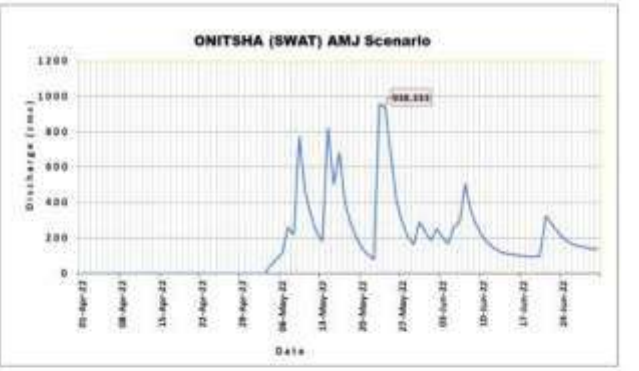


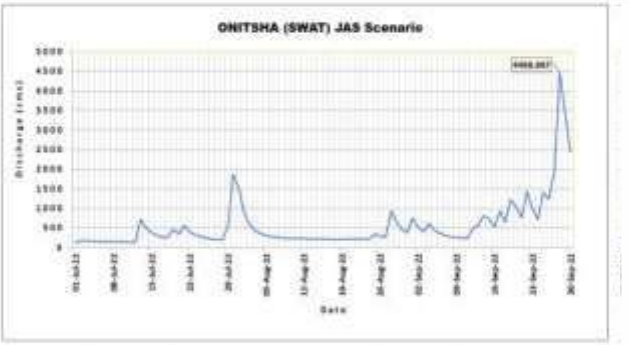
Figures 3.26: Simulated Flow at Afikpo, Cross-River (SWAT Model)



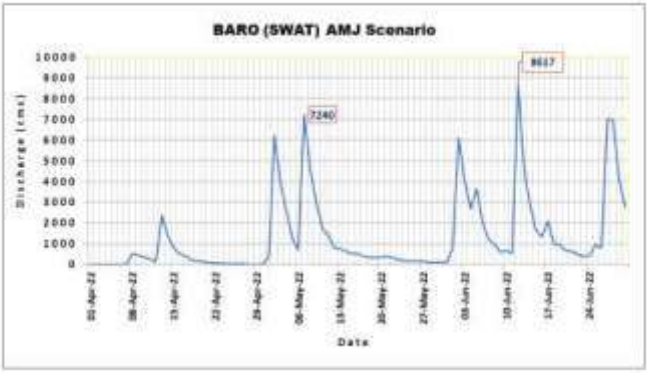


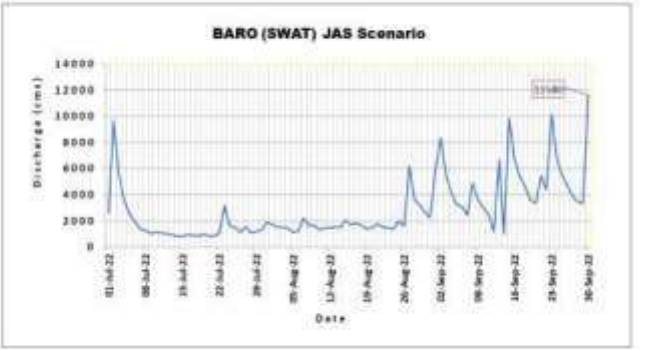
Figures 3.27: Simulated Flow at Abeokuta, River Ogun (SWAT Model)

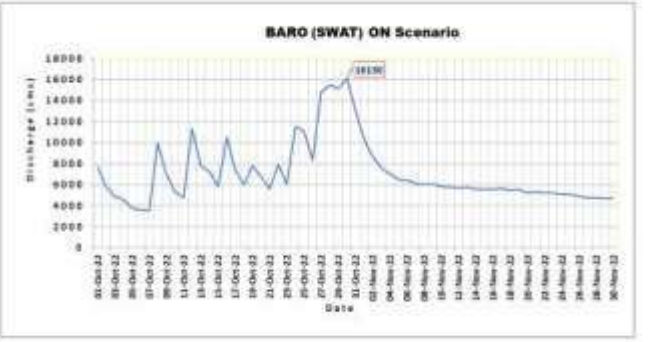




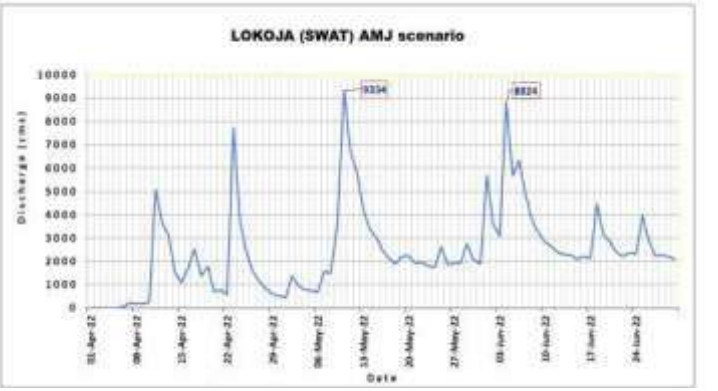
Figures 3.28: Simulated Flow at Onitsha, River Niger (SWAT Model)



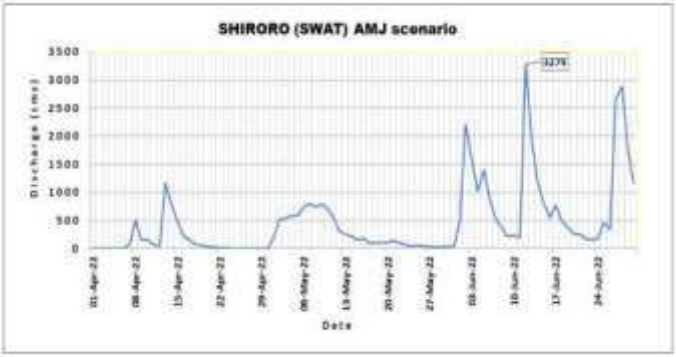




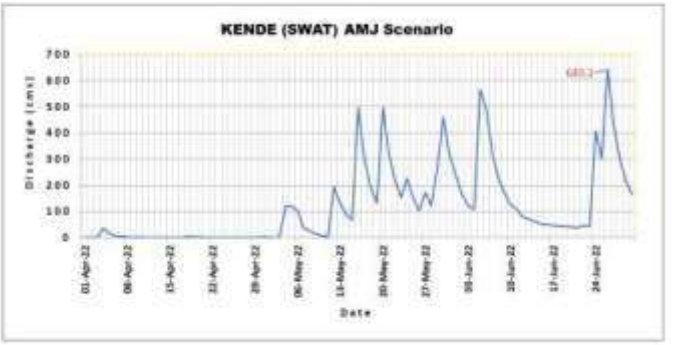
Figures 3.29: Simulated Flow at Baro, River Niger (SWAT Model)

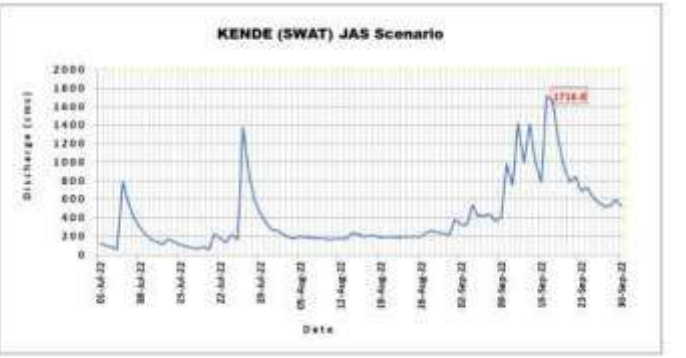


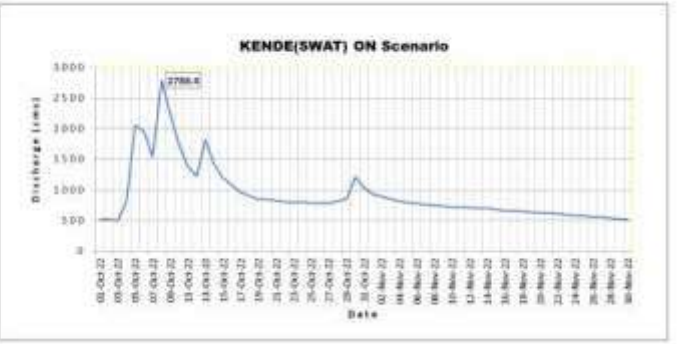
Figures 3.30: Simulated Flow at Lokoja, River Niger (SWAT Model)



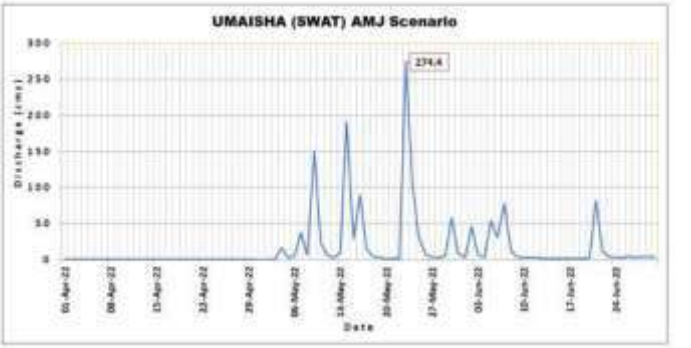
Figures 3.31: Simulated Flow at Shiroro, River Kaduna (SWAT Model)

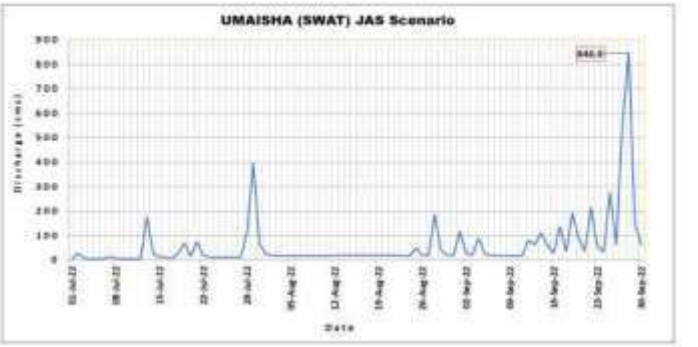




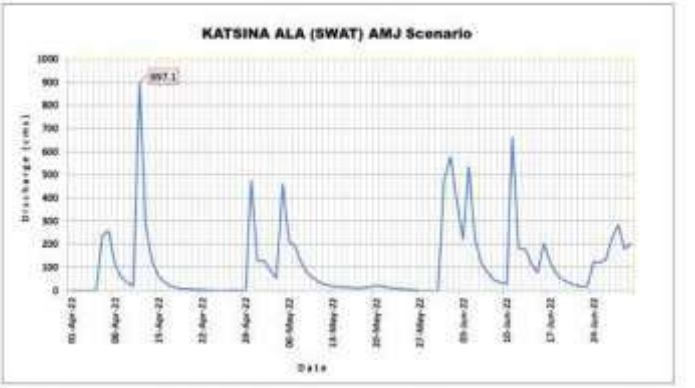


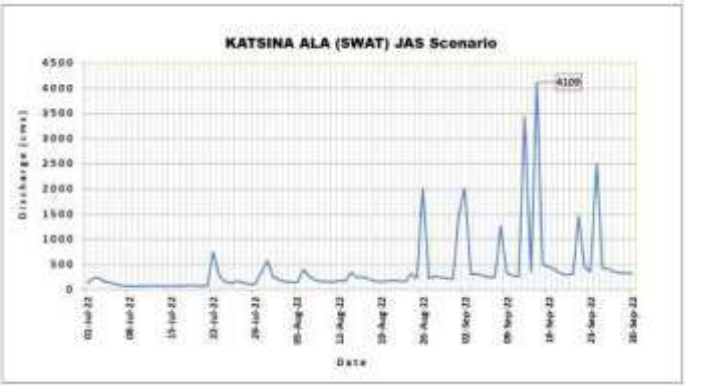
Figures 3.32: Simulated Flow at Kende, River Rima (SWAT Model)

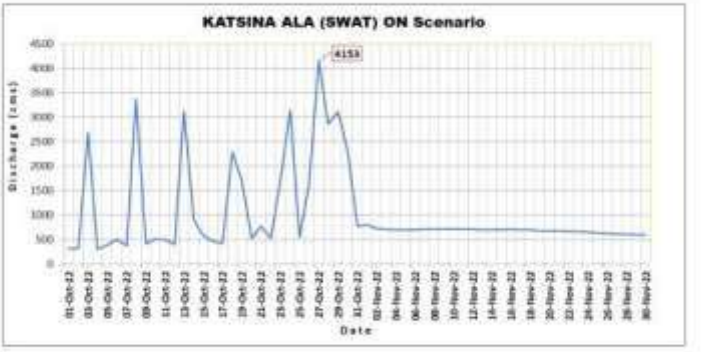




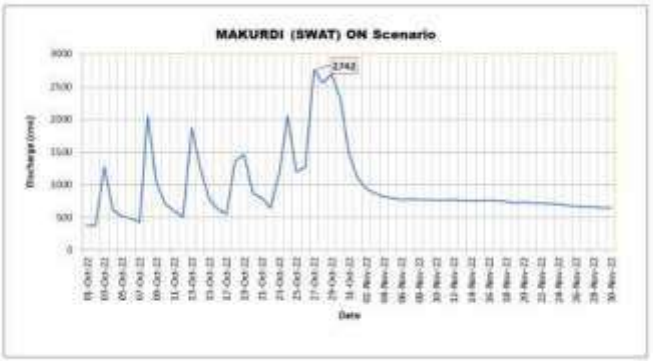
Figures 3.33: Simulated Flow at Umaisha, River Benue (SWAT Model)



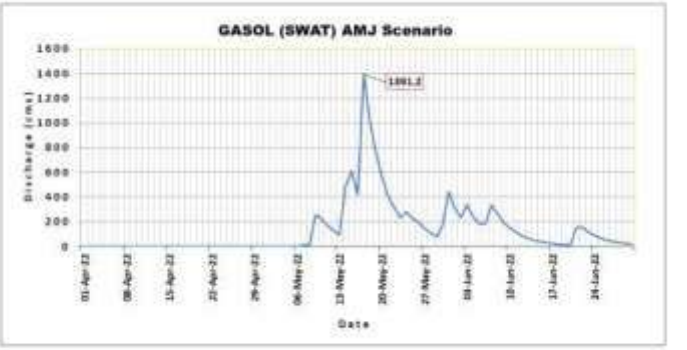


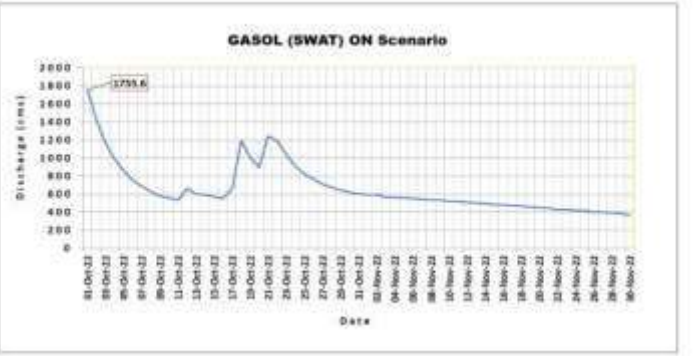


Figures 3.34: Simulated Flow at Katsina - Ala, River Katsina - Ala (SWAT Model)

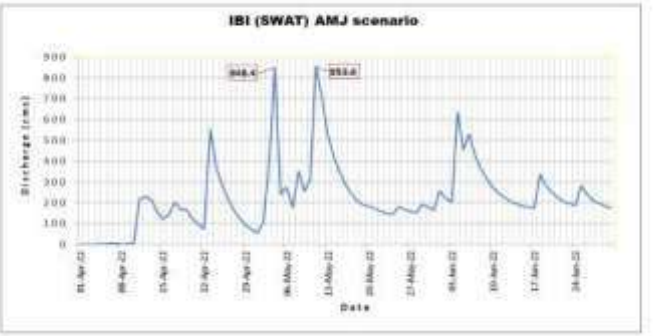


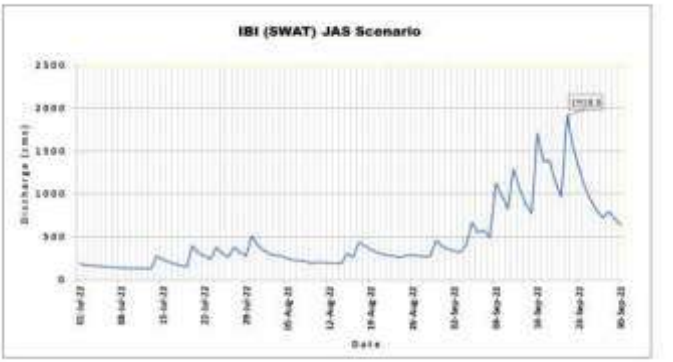
Figures 3.35: Simulated Flow at Makurdi, River Benue (SWAT Model



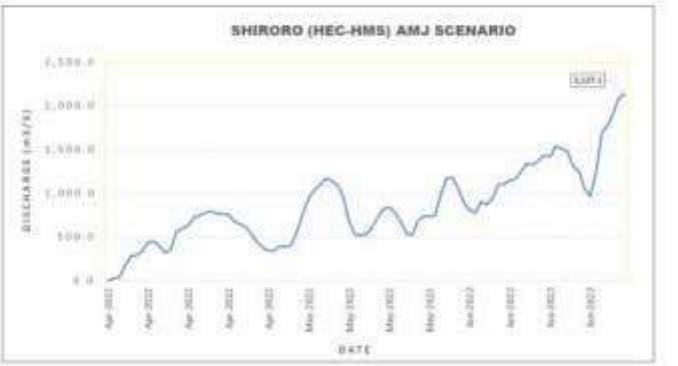


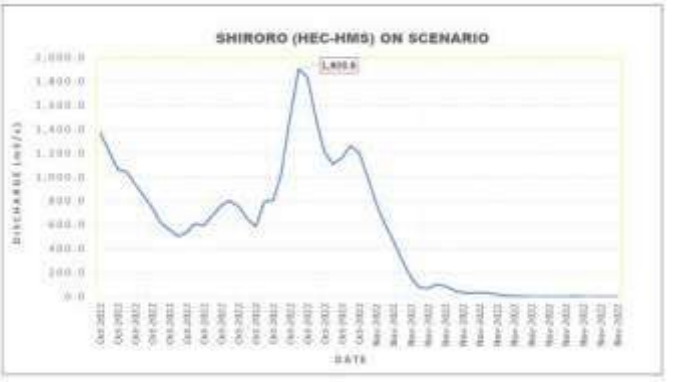
Figures 3.36: Simulated Flow at Gasol, River Taraba (SWAT Model)



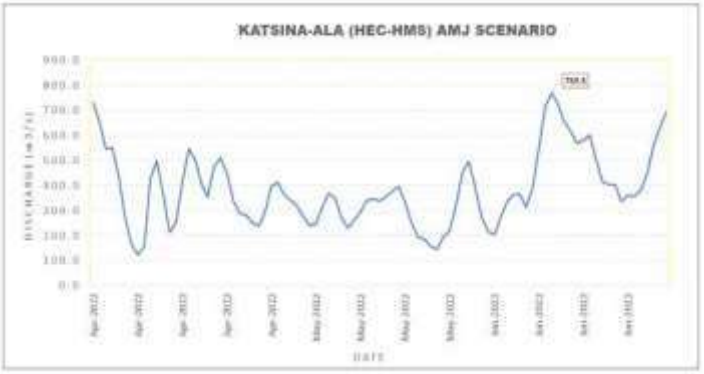


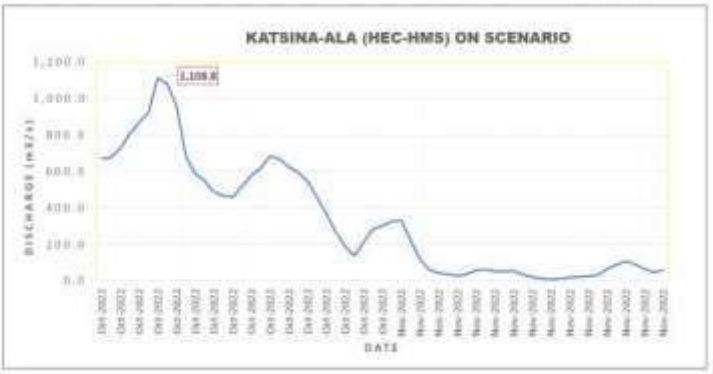
Figures 3.37: Simulated Flow at Ibi, River Benue (SWAT Model)





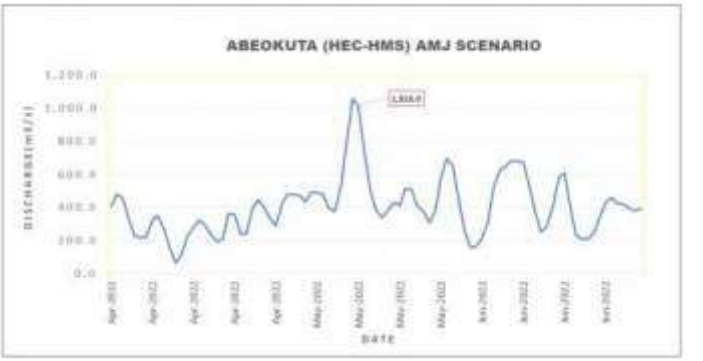
Figures 3.38: Simulated Flow Shiroro, River Kaduna (HEC-HMS Model)

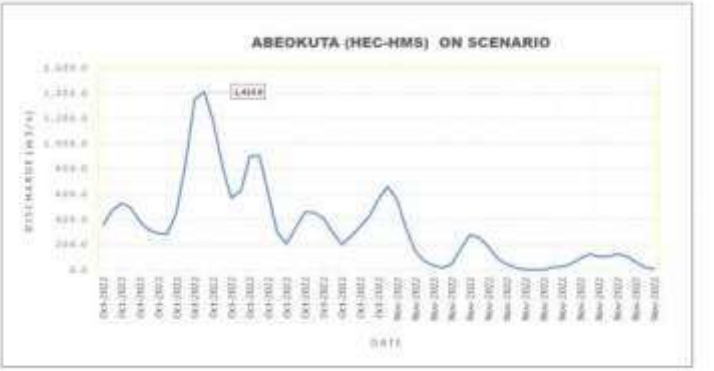




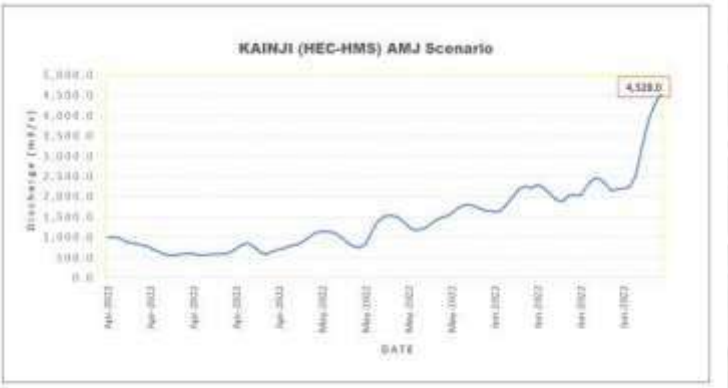
Figures 3.39: Simulated Flow Kastina-Ala, River Kastina-Ala (HEC-HMS Model)

Figures 3.40: Simulated Flow Makurdi, River Benue (HEC-HMS Model)





Figures 3.41: Simulated Flow Abeokuta, River Ogun (HEC-HMS Model)

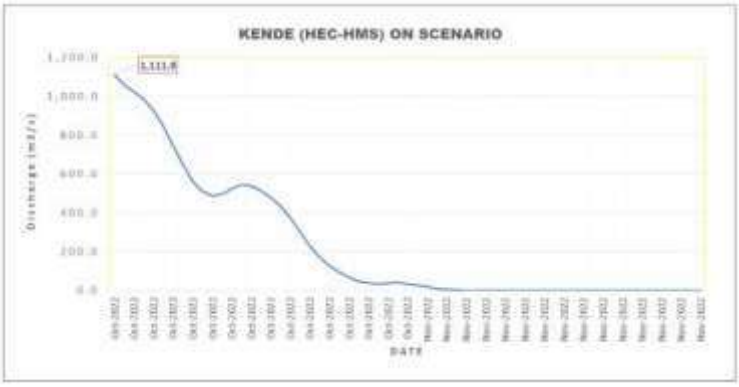


Figures 3.43: Simulated Flow Kainji River (HEC-HMS Model)

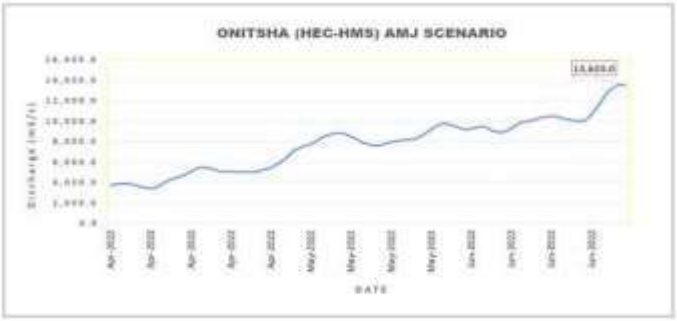
Figures 3.42: Simulated Flow Kainji River (HEC-HMS Model)


KENDE (HEC-HMS) AMJ SCENARIO
Discharge (m3/s)
1,200.0
1,000.0
800.0
600.0
400.0
200.0
0.0
1,112.5
Apr-2022
Apr-2022
Apr-2022
Apr-2022
Apr-2022
May-2022
May-2022
May-2022
May-2022
Jun-2022
Jun-2022
Jun-2022
Jun-2022
DATE


KENDE (HEC-HMS) JAS SCENARIO
Discharge (m3/s)
5,000.0
4,500.0
4,000.0
3,500.0
3,000.0
2,500.0
2,000.0
1,500.0
1,000.0
500.0
0.0
4,395.6
Jul-2022
Jul-2022
Jul-2022
Jul-2022
Jul-2022
Aug-2022
Aug-2022
Aug-2022
Aug-2022
Sep-2022
Sep-2022
Sep-2022
Sep-2022
Sep-2022
DATE

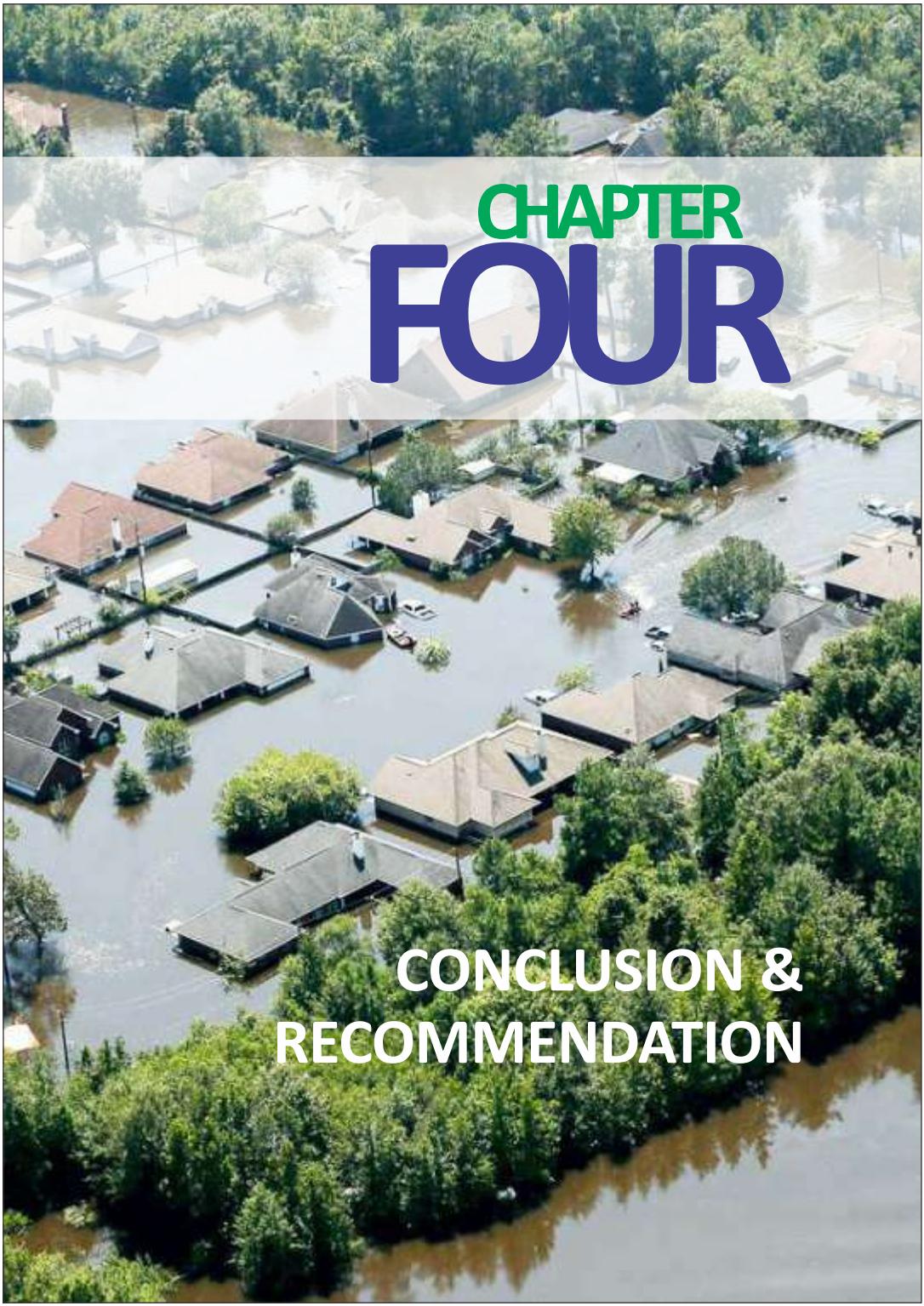

KENDE (HEC-HMS) ON SCENARIO
Discharge (m3/s)
1,200.0
1,000.0
800.0
600.0
400.0
200.0
0.0
1,111.8
DATE

Figures 3.44: Simulated Flow Lokoja, River Niger (HEC-HMS Model)



Figures 3.45: Simulated Flow Ontisha, River Niger (HEC-HMS Model)

From the hydrographs as seen in figures 3.65 – 3.45, a steady rise in discharge rate and water level is expected from April and a peak flow between September and October along the major river channels.



CHAPTER FOUR

CONCLUSION & RECOMMENDATION

4.0 CONCLUSION AND RECOMMENDATIONS

Flood menace has become a recurring phenomenon all over the world which sometimes has devastating effects on human livelihood and infrastructural development. The flood disasters, unlike some natural disasters, can be controlled and the impacts mitigated through the use of both structural and non-structural measures. The non-structural measures include flood early warning systems, public campaign awareness and other stakeholders' engagements are highly effective in mitigating flood disaster if the warnings are taken seriously and appropriate measures put in place.

The concept of AFO which is an Adaptation Benefits Mechanism (ABM) is to mobilize public sector support for climate change adaptation through the identification of flood risk hotspots in the country. This ABM approach creates action that generate adaptation benefits in prominent decisions affecting planning and development processes of critical sectors of the economy namely: Agriculture, Aviation, Water Resources, Power, Health, Environment and Education amongst others.
The flood scenarios as presented in the 2022 AFO are derived from the application of two models: Hydrologic Engineering Center, Hydrologic Modeling System (HEC-HMS) and the Soil and Water Assessment Tool (SWAT) Models. These models utilize meteorological, hydrological, hydrogeological data, topographical and soil water balance indices, as well as Digital Elevation Model (DEM).

The 2022 AFO was developed for three sessions during the rainy season in Nigeria. These include:

- Scenario I: Flood Outlook for the Months of April-June (AMJ).
- Scenario II: Flood Outlook for the Months of July – September (JAS)
- Scenario III: Flood Outlook for the Months of October - November (ON)

These three (3) scenarios were cumulatively aggregated to produce the 2022 AFO. The whole essence is to gradually move towards having a dynamic flood forecast, prediction and Early Warning System (EWS) that can spatial-temporally aid developmental activities across sectors in Nigeria.

A total of 57 LGAs fall within the highly Probable risk areas in the months of April, May and June; 220 LGAs in the months of July, August and September; and 38 LGAs in the Months of October and November.

In addition, a total of 45 LGAs fall within the Probable risk areas in the months of April, May and June; 140 LGAs in the months of July, August and September; and 54 LGAs in the Months of October and November.

A total of Two hundred and thirty-three (233) LGAs are predicted Highly Probable for 2022/2023 Hydrological Year while Two Hundred and Twelve (212) LGAs are predicted to fall within probable category.

In conclusion, it is advised that the predictions of flood for the year 2022 be adhered to and Government at all levels (Local, State and Federal) should take the recommendations in 2022 AFO seriously and work with NIHSA to ensure a disaster free 2022.

4.1 RECOMMENDATIONS

The year 2022/2023 Hydrological Year is fast approaching with the usual flood disaster potential risks. The Agency hereby recommends that:

a) Agencies involved in flood management, disaster management and the use of space-based technology and information for flood management at all levels of governance should establish stronger synergy with NIHSA.

b) Continuous public campaign and awareness especially in the hot spot areas

c) Provision of applicable mitigation measures for people in danger zones before the flood disaster struck.

d) Proper awareness of farmers and people with economic activities within the red zones on the 2022 AFO prediction.

e) Enforcement of Town Planning Code of Conduct of each of the federation states on waterfront development.

f) Constantly freeing the waterways from obstructions and provision of adequate refuse dumping facilities by relevant authorities.

GLOSSARY

Annual rainfall amount – This is the total amount of rainfall observed and recorded in the year under reference.

Anthropogenic - It describes changes in nature made by people. If your town has rerouted water from the river for drinking water, that is an anthropogenic activity.

Basin - It is an area of land that is lower at the centre than at the edges, especially one from which water runs down into a river. It is also large, bowl shaped depression in the surface of the land or ocean floor.

Catchment - A structure, such as a basin or reservoir, used for collecting or draining water.

Climate change – It is a non-random change in climate that is measured over several decades or longer, which may be due to natural or human-induced causes.

Coastal inundation – A type of flooding which occurs when water is driven onto land from an adjacent body of water such as the sea or ocean.

Discharge - It is the volume rate of water flow per unit time, including any suspended solids (e.g. sediment), solute, and/or biological material (e.g. diatoms), which is transported by the water.

Flash flood - It is a rapid flooding of geomorphic low-lying areas: washes, rivers, dry lake sand basins. It may be caused by heavy rain associated with a severe thunderstorm, hurricane, tropical storm, or melt water from ice or snow flowing over ice sheets or snowfields.

Flood - A flood is an event where the river channel becomes inadequate to contain the flow, leading to overtopping of banks and the inundation of parts of the environment. The term has been extended to situations where, due to high permeability and relative low-lying nature of an area, overland flow stagnates in, and inundates such zones. Flooding associated with high-magnitude storm events, overtopping of river banks, high surface permeability, low elevation areas, and unrestrained/sustained inundation of communities.

Floodplains - A floodplain is the strip of very low relative relief alluvial plain that borders a river channel and is usually bounded on the channel side by levees – discontinuous, wedge-shaped ridges around active and abandoned channels, and on the landward side by bluffs and uplands. It is subject to periodic inundation particularly during seasonal floods, and comprises river channels, oxbow lakes, levees, and terraces.

Global warming – An overall increase in the world temperatures, which may be caused by additional heat being trapped by greenhouse gases mostly as a result of human activities.

Hydrology- Hydrology is the study of the occurrence, circulation and distribution of fresh water (i.e. water with total solute load less than 1000 mg L-1) on the surface of the earth. It also investigates the physical and chemical properties of the water and its interactions with man and his environment. A practitioner of hydrology is a hydrologist, working within the fields of earth or environmental science, physical geography, geology or civil and environmental engineering.

Inundation - It is the covering of the land by water as a result of flood or construction of a dam across a river.

Meteorology - It is the interdisciplinary scientific study of the atmosphere. Meteorological phenomena are observable weather events which illuminate, and are explained by the science of meteorology. Those events are bound by the variables that exist in Earth's atmosphere; temperature, air pressure, water vapor, and the gradients and interactions of each variable, and how they change in time. Different spatial scales are studied to determine how systems on local, regional, and global levels impact weather and climatology.

Morphology - It is a scientific study of form and structure, usually without regard to function.

Permeability – It is a process whereby water percolates into the ground through the interconnected pores and spaces in a rock.

Precipitation - as any product of the condensation of atmospheric water vapour that falls to the earth under gravity. The main forms of precipitation include drizzle, rain, sleet, snow and hail. Precipitation occurs when a local portion of the atmosphere becomes saturated with water vapour, so that the water condenses and precipitates.

Surface Runoff – Surface runoff (also known as overland flow) is the flow of water that occurs when excess storm water, melt water, or other sources flows over the earth's surface. This might occur because soil is saturated to full capacity. It can also occur because rain arrives more quickly than soil can absorb it.

Telemetric - It is a technology that involves the automatic measurement and transmission of data from remote sources.

Topography - This is a detailed map of the surface features of land. It includes the mountains, hills, creeks, and other physical features on the earth‟s surface.

Transboundary Aquifer Systems (TAS) - It can also be referred to as Internationally Shared Aquifer Systems. This is a situation where water bearing rock formations (aquifers) underlie two or more countries

ACRONYMS

ACMAD: African Centre for Meteorological Application for Development
AFO: Annual Flood Outlook
AGRHYMET: Agro–meteorology and Operational Hydrology and their Applications
AMJ: April, May, June
AMESD: African Monitoring of Environment for Sustainable Development
ArcGIS: Arc Geographic Information System
AWOS: Automatic Weather Observation Station
CHIRPS: Climate Hazards Group Infra-Red Precipitation with Stations
DAR: Deviation of Length of Rainy Season
DCP: Data Collection Platform
DEM: Digital Elevation Model
FEWSNET: Famine Early Warning System Network
FME: Federal Ministry of Environment
FMWR: Federal Ministry of Water Resources
GeoSFM: Geospatial Stream Flow Model
HA: Hydrological Area
HBV: Hydrologiska Byråns Vattenbalansavdelning model
HEC-HMS: The Hydrologic Engineering Center, Hydrologic Modeling System
HKYTF: Hadejia Komadugu Yobe Trust Fund
IPCC: Inter-governmental Panel on Climate Change
JAS: June, July August
JICA: Japanese International Cooperation Agency
NASA: National Aeronautic and Space Agency
NASRDA: National Space Research and Development Agency
NBA: Niger Basin Authority
NEMA: National Emergency Management Agency
NIHSA: Nigeria Hydrological Services Agency
NiMet: Nigerian Meteorological Agency
NIWA: National Inland Waterways Authority
NIWRMC: Nigeria Integrated Water Resources Management Commission
NWRI: National Water Resources Institute
ON: October, November
OSGOF: Office of the Surveyor General of the Federation
PET: Potential Evapotranpiration
RBDAs: River Basin Development Authorities
SCP: Seasonal Climate Prediction
SRTM: Shuttle Radar Topography Mission
SWAT: Soil and Water Assessment tool
USGS/EROS: United States Geological Survey Centre for Earth Resources Observation and Science
USGS: United State Geological Survey
WFP: World Food Programme

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APPENDIX I

List of the Communities/Villages affected under 2km, 4km and 6km Flooding Scenarios

	Affected Communities of AMJ Flooding in HA I			
STATE	Within 2km		Within 4km	Within 6km
Kebbi	Zaria	Raha	Makina	Gode
Kebbi	Yelwa	Pasatulu	Sira	Iyakan Kasa
Kebbi	Yantala	Pasatulu	Sununu	Ntede
Kebbi	Waya	Pampara Akeiba	Machipa	Usaka
Kebbi	Uzo	Old Gendinni	Alungushi	Makatayi
Kebbi	Umbako	Ochillo	Ganka	Mahange
Kebbi	Ubaka	Ngaski	Tungan Mogaji	Ubaka
Kebbi	Tunga Zabarmawa	New Warra	Gaozo	Tungan Papa
Kebbi	Tunga Ulu	New Saura	Chumu	Tungan Bagala
Kebbi	Tunga Taru	New Panga	Makirin	Konono
Kebbi	Tunga Sawai	New Libata	Kolio	Milemi
Kebbi	Tunga Sarikawa	Mazoji	Bin Yauri	Tungan Tarkwata
Kebbi	Tunga Rimi	Marakai	Gante Sabo	Tungan Wasari
Kebbi	Tungan Wazam	Maraha	Tungan Kaluwa	Sabon Gari
Kebbi	Tungan Walinga	Makirin	Tunguani	Tungan Daudu
Kebbi	Tungan Wakili	Makawa	Tungan Masu	Gabban Mata
Kebbi	Tungan Sara	Makawa	Tungan Dindani	Maizaga
Kebbi	Tungan Nagoma	Makawa	Mai Agumi	Ramin Kura
Kebbi	Tungan Mogaji	Makankawara	Binua	Tunga Farda
Kebbi	Tungan Malam	Maitambari	Tugan Zakara	Rafin Kawo
Kebbi	Tungan Makeri	Maiel	Tungan Makeri	Bahindi
Kebbi	Tungan Magala	Machipa	Tungan Mekidi	Kalli
Kebbi	Tungan Maaji	Lopo	Tungan Kogoro	Tunga Chindo
Kebbi	Tungan Lauje	Lafagu	Tungan Janje	Tungan Wazam
Kebbi	Tungan Lafiya	Kwawai	Sawashi	Kwasara
Kebbi	Tungan Kyewale	Kwarategi	Tungan Buda	Tungan Yero
Kebbi	Tungan Kabawa	Kwanguwai	Kaure	Tungan Kiria
Kebbi	Tungan Jodi	Kwala	Kowati	Tungan Dede
Kebbi	Tungan Guguwa	Kuruga	Tungan Goje	Gawasa
Kebbi	Tungan Gora	Kunji	Alanjoni	Dadi
Kebbi	Tungan Giwa	Kuka	Kulli	Fore
Kebbi	Tungan Gimba Bamaraba	Kowara	Zuguum	
Kebbi	Tungan Gimba	Kerimayo	Tuluwa	
Kebbi	Tungan Gamji	Keniki	Tunga Maje	
Kebbi	Tungan Gajere Meshai	Keje Kaina	Runtuwa	
Kebbi	Tungan Fari	Kawara Mairuwa	Tunga Banbara	
Kebbi	Tungan Dogo	Kawara Boi	Tunga Ilela	
Kebbi	Tungan Dala	Kashuwa	Tunga Dunyan	
Kebbi	Tungan Bori	Kashin Giwa	Dabaga	
Kebbi	Tungan Bori	Kasale	Tunga Kadibo	
Kebbi	Tungan Bindiga	Kalkami	Tunga Sule	
Kebbi	Tungan Batarata	Kaliyal	Tunga Gumai	

Kebbi	Tunga Bakki Doma	Illo	Tunga Alhadji Atiku
Kebbi	Tungan Arake	Illela	Tunga Handa
Kebbi	Tungan Aburigi	Gwatango	Tunga Yola
Kebbi	Tunga Musa	Gwamba	Tunga Rabargahaya
Kebbi	Tunga Maiyali	Guru	Tunga Masu
Kebbi	Tunga Kwaku	Guguwa	Tunga Hassan
Kebbi	Tunga Jipere	Guguwa	Tungan Akwada
Kebbi	Tunga Jidero Bode	Guguwa	Tungan Mesaje
Kebbi	Tunga Hassan	Gudanakwari	Gardi
Kebbi	Tunga Hakimi Isa	Gobirage	Kende
Kebbi	Tunga Gwamba	Giro	Idua
Kebbi	Tunga Goje	Giris	Tungan Isaka
Kebbi	Tunga Gendimni	Gendimni	Gesheru
Kebbi	Tunga Buzaye	Garingolmi	Shira
Kebbi	Tunga Bombo	Gante	Zondo
Kebbi	Tunga Alhaji	Gafadi	Sabon Gari
Kebbi	Tugan Maizari	Futawa	Tondi
Kebbi	Tugan Bomra	Dugu Tsofo	Dadadi
Kebbi	Tuga	Drumeiru	Bendu
Kebbi	Tondi	Bukunji	Tundifai
Kebbi	Tanikora	Beriberi	Bomra
Kebbi	Talata	Bassura	Dandawa
Kebbi	Swaka	Bandam	Saka
Kebbi	Suru	Bandakwai	Zakwa
Kebbi	Sugu	Bakwai	Sanga
Kebbi	Seribi	Bakin Sakace	Taka Lafia
Kebbi	Sarikawa	Bakin Ruwa	Nagode
Kebbi	Samanage	Bakali	Lafia
Kebbi	Sabo Tondi	Bagudo	Worogaori
Kebbi	Sabon Tunga	Badariya	Maikori
Kebbi	Rikofe	Asarara	Babban Kwari
Kebbi	Rahayel		

	Affected Communities of JAS Flooding in HA I			
STATE	Within 2km		Within 4km	Within 6km
Kebbi	Zuguru	Kuruga	Makina	Iyakan Kasa
Kebbi	Zauro	Kurebu	Sira	Ntede
Kebbi	Zaria	Kurebu	Sununu	Usaka
Kebbi	Zabdo	Kunji	Machipa	Makatayi
Kebbi	Zabamawa	Kuka	Alungushi	Mahange
Kebbi	Yola Aori	Kowara	Ganka	Ubaka
Kebbi	Yelwa	Kola	Karandadi	Tungan Papa
Kebbi	Yantala	Kimbawa	Tungan Mogaji	Tungan Bagala
Kebbi	Wurogauri	Keta Hausawa	Gaozo	Konono
Kebbi	Waya	Kerimayo	Chumu	Tungan Tarkwata
Kebbi	Ungwan Sanbodari	Keniki	Tukusu	Tungan Wasari
Kebbi	Ungwan Lele	Keje Kaina	Kolio	Sabon Gari
Kebbi	Ungwan Garji	Kawari	Bin Yauri	Tungan Daudu
Kebbi	Ungwan Diko	Kawara Mairuwa	Gante Sabo	Gabban Mata
Kebbi	Ungwan Danmemuna	Kawara Boi	Tungan Kaluwa	Ruan Kiria
Kebbi	Ungwa Kaye	Kashuwa	Tunguani	Maizaga
Kebbi	Umbako	Kashin Zama	Tungan Dindani	Ramin Kura
Kebbi	Ubaka	Kashin Giwa	Mai Agumi	Tunga Farda
Kebbi	Uarafe	Kasale	Tugan Zakara	Rafin Kawo
Kebbi	Tungu Kone	Kangiwa	Tungan Makeri	Bahindi
Kebbi	Tunga Zabarmawa	Kamfani	Tungan Mekidi	Kalli
Kebbi	Tunga Ulu	Kalkami	Tungan Kogoro	Tunga Chindo
Kebbi	Tunga Taru	Kaliyal	Tungan Janje	Tungan Wazam
Kebbi	Tunga Sawai	Kaduba	Sawashi	Kwasara
Kebbi	Tunga Sarikawa	Jiddu	Tungan Buda	Tungan Mallam Bawa
Kebbi	Tunga Rimi	Jabaka	Kaure	Beriberijo
Kebbi	Tunga Rere	Indire	Kowati	Tungan Alhaji
Kebbi	Tungan Wazam	Imara	Tungan Goje	Tarawa
Kebbi	Tungan Walinga	Illo	Alanjoni	Sirisanga
Kebbi	Tungan Wakili	Illela Rafi	Kulli	Wagabai
Kebbi	Tungan Sara	Illela	Zuguum	Bani Goro
Kebbi	Tungan Nagoma	Ilela	Tuluwa	Tankwasari
Kebbi	Tungan Mogaji	Helande	Tunga Maje	Gwoge
Kebbi	Tungan Malam	Gwatango	Runtuwa	Tungan Yero
Kebbi	Tungan Makeri	Gwamba	Tunga Banbara	Tungan Kembufana
Kebbi	Tungan Makeri	Gwadan Gaji	Tunga Ilela	Bulungai
Kebbi	Tungan Maaji	Guru	Tunga Dunyan	Tungan Mumuni
Kebbi	Tungan Lauje	Gulumbe	Dabaga	Gilari
Kebbi	Tungan Lafiya	Guguwa	Tunga Kadibo	Tungan Kiria
Kebbi	Tungan Kabawa	Guguwa	Tunga Sule	Tungan Dede
Kebbi	Tungan Jodi	Guguwa	Tunga Gumai	Gawasa
Kebbi	Tungan Jibo	Gudanakwari	Tunga Alhadji Atiku	Dadi

Kebbi	Tungan Guguwa	Gudale	Tunga Handa
Kebbi	Tungan Gora	Gotomo	Tunga Yola
Kebbi	Tungan Giwa	Goru	Tunga Rabargahaya
Kebbi	Tungan Gimba Bamaraba	Gobirage	Tunga Masu
Kebbi	Tungan Gimba	Giro	Tunga Hassan
Kebbi	Tungan Gamji	Giris	Tungan Akwada
Kebbi	Tungan Gajere Meshai	Ginga	Tungan Mesaje
Kebbi	Tungan Fari	Gidan Kwali	Gardi
Kebbi	Tungan Dogo	Gidan Debe	Kende
Kebbi	Tungan Dala	Gendinni	Idua
Kebbi	Tungan Bori	Garin Sabon Gandu	Tungan Isaka
Kebbi	Tungan Bori	Garingolmi	Gesheru
Kebbi	Tungan Bindiga	Garam	Shira
Kebbi	Tungan Batarata	Gante	Ungwan Ruga
Kebbi	Tunga Bakki Doma	Gamana	Zondo
Kebbi	Tungan Arake	Gafadi	Sabon Gari
Kebbi	Tungan Aburigi	Futawa	Juroki
Kebbi	Tunga Musa	Fadisonko	Aljenaari
Kebbi	Tunga Maiyali	Dundiye	Tondi
Kebbi	Tunga Limaw	Dugu Tsofo	Tunga Rafi
Kebbi	Tunga Lawa	Drumeiru	Banu Goro
Kebbi	Tunga Kwaku	Dimbogo	Yelawa
Kebbi	Tunga Jipere	Diggi	Tungan Alhorma
Kebbi	Tunga Jidero Bode	Dantanbari	Dadadi
Kebbi	Tunga Hassan	Danmawa	Tudun Sani
Kebbi	Tunga Hakimi Isa	Dankiria	Gwanadi Kanti
Kebbi	Tunga Gwamba	Dangkel	Bendu
Kebbi	Tunga Goje	Dabai	Tungan Habi
Kebbi	Tunga Gendinni	Bunza	Tundifai
Kebbi	Tunga Buzaye	Bukunji	Boma
Kebbi	Tunga Bombo	Bore	Dandawa
Kebbi	Tunga Amadu	Boma	Saka
Kebbi	Tunga Alhaji	Birnin Maurida	Zakwa
Kebbi	Tugan Numa	Birnin Lafia	Sanga
Kebbi	Tugan Maizari	Birnin Kebbi	Taka Lafia
Kebbi	Tugan Boma	Beriberi	Nagode
Kebbi	Tuga	Bayawa	Lafia
Kebbi	Tondi	Bassura	Worogaori
Kebbi	Tilli	Basaura	Maikori
Kebbi	Tasumbuke	Bangola	Babban Kwari
Kebbi	Tari	Bangara	Mungadi
Kebbi	Tarasa	Bandam	Illela
Kebbi	Tantaramag	Bandakwai	Sambawa
Kebbi	Tanikora	Bame Fadama	Bakabe

Kebbi	Maidawa		Bofawa
Kebbi	Maidahini		Jada
Kebbi	Machipa		Bela
Kebbi	Lugamani		Wali
Kebbi	Luga		Argungu
Kebbi	Lopo		Sabla
Kebbi	Lollo		Gidan Aguda
Kebbi	Langarma		Gesa
Kebbi	Lalani		Gidan Maigemi
Kebbi	Laga		Saharma
Kebbi	Lafagu		Yelema
Kebbi	Kyara		Tigi
Kebbi	Kwawai		Tudun Dumi
Kebbi	Kwarategi		Bubuche
Kebbi	Kwanguwai		Bagai
Kebbi	Kwala		Augi
Kebbi	Kurukuru		Mera

	Affected Communities of ON Flooding in HA I			
STATE	Within 2km		Within 4km	Within 6km
Kebbi	Zuguru	Kwanguwai	Gante Sabo	Tungan Tarkwata
Kebbi	Zauro	Kwala	Tugan Zakara	Tungan Wasari
Kebbi	Zaria	Kuruga	Tungan Makeri	Sabon Gari
Kebbi	Zabdo	Kurebu	Tungan Mekidi	Tungan Daudu
Kebbi	Zabamawa	Kurebu	Tungan Kogoro	Gabban Mata
Kebbi	Yola Aori	Kunji	Tungan Janje	Maizaga
Kebbi	Yelwa	Kowara	Sawashi	Ramin Kura
Kebbi	Yantala	Kola	Tungan Buda	Tunga Farda
Kebbi	Wurogauri	Kimbawa	Kaure	Rafin Kawo
Kebbi	Waya	Keta Hausawa	Kowati	Bahindi
Kebbi	Ungwan Sanbodari	Kerimayo	Tungan Goje	Kalli
Kebbi	Ungwan Lele	Keniki	Alanjoni	Tunga Chindo
Kebbi	Ungwan Garji	Keje Kaina	Kulli	Tungan Wazam
Kebbi	Ungwan Diko	Kawari	Zuguum	Kwasara
Kebbi	Ungwan Danmemuna	Kawara Mairuwa	Tuluwa	Tungan Yero
Kebbi	Ungwa Kaye	Kawara Boi	Tunga Maje	Tungan Kiria
Kebbi	Umbako	Kashin Zama	Runtuwa	Tungan Dede
Kebbi	Uarafe	Kashin Giwa	Tunga Banbara	Gawasa
Kebbi	Tungu Kone	Kasale	Tunga Ilela	Dadi
Kebbi	Tunga Zabarmawa	Kangiwa	Tunga Dunyan	Fore
Kebbi	Tunga Ulu	Kamfani	Dabaga	Takalafian Bunza
Kebbi	Tunga Taru	Kalkami	Tunga Kadibo	Kamakawo
Kebbi	Tunga Sawai	Kaliyal	Tunga Sule	Baban Jori Dikko
Kebbi	Tunga Sarikawa	Kaduba	Tunga Gumai	Salawai

Kebbi	Tunga Rimi	Jabaka	Tunga Alhadji Atiku	Gede Sauna
Kebbi	Tunga Rere	Indire	Tunga Handa	Gede Haikimi
Kebbi	Tungan Wazam	Imara	Tunga Yola	Tunga Bala
Kebbi	Tungan Nagoma	Illo	Tunga Rabargahaya	Zogirma
Kebbi	Tungan Malam	Illela Rafi	Tunga Masu	Gumawa
Kebbi	Tungan Makeri	Illela	Tunga Hassan	Gayi
Kebbi	Tungan Makeri	Ilela	Tungan Akwada	Hirishi
Kebbi	Tungan Maaji	Helande	Tungan Mesaje	Tungan Goge
Kebbi	Tungan Lauje	Gwatango	Gardi	Asarara
Kebbi	Tungan Kabawa	Gwamba	Kende	Rango
Kebbi	Tungan Jodi	Gwadan Gaji	Idua	Huda
Kebbi	Tungan Jibo	Guru	Tungan Isaka	Bulassa
Kebbi	Tungan Guguwa	Gulumbe	Gesheru	Ungwan Naraba
Kebbi	Tungan Giwa	Gudanakwari	Shira	Randali
Kebbi	Tungan Gimba	Gudale	Zondo	Harasawa
Kebbi	Tungan Gamji	Gotomo	Sabon Gari	Kawara
Kebbi	Tungan Gajere Meshai	Goru	Tondi	Gamji
Kebbi	Tungan Fari	Gobirage	Dadadi	Janzomo
Kebbi	Tungan Dala	Giro	Bendu	Bamirunji
Kebbi	Tungan Bori	Giris	Tundifai	Kwartegi
Kebbi	Tungan Bori	Ginga	Boma	Duko
Kebbi	Tungan Bindiga	Gidan Kwali	Dandawa	Buri
Kebbi	Tungan Batarata	Gidan Debe	Saka	Tsiamiya
Kebbi	Tunga Bakki Doma	Gendinni	Zakwa	Kware
Kebbi	Tungan Arake	Garin Sabon Gandu	Sanga	Kade
Kebbi	Tungan Aburigi	Garingolmi	Taka Lafia	Gobare Seke
Kebbi	Tunga Musa	Garam	Nagode	Kukadu
Kebbi	Tunga Maiyali	Gante	Lafia	Gude
Kebbi	Tunga Limaw	Gafadi	Worogaori	Hakwon Sarki
Kebbi	Tunga Lawa	Futawa	Maikori	Maskawa
Kebbi	Tunga Kwaku	Fadisonko	Babban Kwari	Sarkowa
Kebbi	Tunga Jipere	Dundiye	Mungadi	Dankanowa
Kebbi	Tunga Jidero Bode	Dugu Tsofo	Illela	Tungan Mairuwa
Kebbi	Tunga Hassan	Drumeiru	Sambawa	Gidan Haikimi
Kebbi	Tunga Hakimi Isa	Dimbogo	Bakabe	Gidan Debe
Kebbi	Tunga Gwamba	Diggi	Kulunkoji	Kwaido
Kebbi	Tunga Goje	Dantanbari	Tungan Manun Kulu	
Kebbi	Tunga Gendinni	Danmawa	Nyanga Hausawa	
Kebbi	Tunga Buzaye	Dankiria	Mazagoma	
Kebbi	Tunga Bombo	Dangkel	Nufawa	
Kebbi	Tunga Amadu	Dabai	Dankatanga	
Kebbi	Tunga Alhaji	Bunza	Matankari	
Kebbi	Tugan Numa	Bukunji	Marmaro	
Kebbi	Tugan Maizari	Bore	Bawada	
Kebbi	Tugan Boma	Birnin Maurida	Dakala	

Kebbi	Tuga	Birnin Lafia	Madiya
Kebbi	Tondi	Birnin Kebbi	Wuro Maliki
Kebbi	Tilli	Beriberi	Hicinga
Kebbi	Tasumbuke	Bayawa	Takari Fulani
Kebbi	Tari	Bassura	Bunga Sabua
Kebbi	Tarasa	Basaura	Alumadi
Kebbi	Tantaramag	Bangola	Akwara
Kebbi	Tanikora	Bangara	Kakalafia
Kebbi	Talata	Bandam	Bunga Baba
Kebbi	Tafasha	Bandakwai	Gawasu
Kebbi	Swaka	Bame Fadama	Godara
Kebbi	Suru	Bakwai	Asarara
Kebbi	Sugu	Bakoshi	Sangaye
Kebbi	Sire Bundum	Bakoshi	Gidan Yange
Kebbi	Shunni	Bakali	Tunga Auni
Kebbi	Seribi	Bagudo	Damana
Kebbi	Sauwa	Badariya	Dagere
Kebbi	Sarikawa	Badaria	Juniu
Kebbi	Samanage	Awadi	Kaikayaie
Kebbi	Sabo Tondi	Asawaka	Dalatu
Kebbi	Sabon Tunga	Asarara	Dabere
Kebbi	Sabon Gari	Asarara	Gobare Mekasuwa
Kebbi	Sabon Gari	Ambursa	Kaura
Kebbi	Sabiyel	Aluhasa	Umara Gwargwari
Kebbi	Sabaruawa		Kwangwa
Kebbi	Rahavel		Gidan Dikon Sulare
Kebbi	Raha		Mebarmi
Kebbi	Raha		Gulma
Kebbi	Pampara Akeiba		Ungwa Mesamari
Kebbi	Old Gendinni		Gidan Siko
Kebbi	Mutabari		Gidan Munkaila
Kebbi	Mazoji		Gidan Mekwonko
Kebbi	Matia Kuka		Gijia
Kebbi	Marina		Kunkuru
Kebbi	Marakai		Tungar Zazzagawa
Kebbi	Malam		Bofawa
Kebbi	Makankawara		Jada
Kebbi	Maitankari		Bela
Kebbi	Maitambari		Wali
Kebbi	Maiel		Argungu
Kebbi	Maidawa		Sabla
Kebbi	Maidahini		Gidan Aguda
Kebbi	Lugamani		Gesa
Kebbi	Luga		Gidan Maigemi
Kebbi	Lopo		Saharma
Kebbi	Langarma		Yelema
Kebbi	Lalani		Tigi
Kebbi	Laga		Tudun Dumi
Kebbi	Lafagu		Bubuche
Kebbi	Kyara		Bagai
Kebbi	Kwawai		Augi
Kebbi	Kwarategi		Mera

	Affected Communities of AMJ Flooding in HA I				
STATE	Within 2km			Within 4km	Within 6km
Niger	Zakakulu	Pissa	Mahuta	Kwaroin	Kanya
Niger	Yunmu	Papiri Kara	Kpan	Zaji	Yangiri
Niger	Tungan Waya	Papiri	Kokoli	Tungan Ajiya	Kare
Niger	Tungan Uwar Yara	Ororo	Kato	Balugu	Leshibe
Niger	Tungan Marunji	Ororo	Kaila	Karandadi	Bussa
Niger	Tungan Makeri	New Yunmu	Gbelegu	Tungan Bogudu	Bagopia
Niger	Tungan Lafiya	New Ujiji	Gbelegu	Azamazu	Baaza
Niger	Tungan Gwondo	New Tungan Dangaje	Garafini	Makago	Tungan Yauri
Niger	Tungan Barace	New Shagunnu	Busuru	Balamasa	Tungan Medamusa
Niger	Tungan Ashirkali	New Kurwasa	Bayan Dutse	Tukusu	Tungan Auta
Niger	Tugan Teku	New Dugga	Balugu	Numakaku	Agwarra
Niger	Tugan Rigia	New Bussa	Balugu	Makoshi	Adehe
Niger	Tugan Meya	Mokoli	Azarunji	Gandiga	Mogajiya Metunbi
Niger	Seteku	Matia Kuka	Azamate	Tungan Gandiga	Tungan Madinbi
Niger	Sansanmi	Malopo	Azakagu	Kwalabala	
Niger	Sadawanka	Makeri Barashi		Peshire	

	Affected Communities of JAS Flooding in HA I				
STATE	Within 2km			Within 4km	Within 6km
Niger	Zakakulu	Pissa	Mahuta	Kwaroin	Kanya
Niger	Yunmu	Pasatulu	Kpan	Zaji	Yangiri
Niger	Uzo	Pasatulu	Kokoli	Tungan Ajiya	Kare
Niger	Tungan Waya	Papiri Kara	Kato	Balugu	Leshibe
Niger	Tungan Uwar Yara	Papiri	Kaila	Tungan Bogudu	Gode
Niger	Tungan Marunji	Ororo	Gbelegu	Azamazu	Bussa
Niger	Tungan Magala	Ororo	Gbelegu	Makago	Bagopia
Niger	Tungan Lafiya	New Yunmu	Garafini	Balamasa	Baaza
Niger	Tungan Kyewale	New Ujiji	Busuru	Makirin	Tungan Yauri
Niger	Tungan Gwondo	New Tungan Dangaje	Bayan Dutse	Numakaku	Tungan Medamusa
Niger	Tungan Barace	New Shagunnu	Balugu	Makoshi	Tungan Auta
Niger	Tungan Ashirkali	New Kurwasa	Balugu	Gandiga	Agwarra
Niger	Tugan Teku	New Dugga	Bakin Sakace	Tungan Gandiga	Adehe
Niger	Tugan Rigia	New Bussa	Bakin Ruwa	Kwalabala	Mogajiya Metunbi
Niger	Tugan Meya	Mokoli	Azarunji	Peshire	Tungan Madinbi
Niger	Seteku	Malopo	Azamate	Tungan Masu	Milemi
Niger	Sansanmi	Makirin	Azakagu	Binua	
Niger	Sadawanka	Makeri Barashi			

	Affected Communities of ON Flooding in HA I				
STATE	2km			4km	6km
Niger	Zakakulu	Pasatulu	Kato	Tungan Bogudu	Tungan Yauri
Niger	Uzo	Pasatulu	Kaila	Azamazu	Tungan Medamusa
Niger	Tungan Marunji	Papiri Kara	Gbelegu	Makago	Agwarra
Niger	Tungan Lafiya	Papiri	Gbelegu	Balamasa	Adehe
Niger	Tungan Kyewale	Ororo	Busuru	Numakaku	Mogajiya Metunbi
Niger	Tungan Barace	Ororo	Bayan Dutse	Makoshi	Tungan Madinbi
Niger	Tungan Ashirkali	New Ujiji	Bakin Sakace	Gandiga	Milemi
Niger	Tugan Rigia	Mokoli	Bakin Ruwa	Tungan Gandiga	
Niger	Tugan Meya	Makeri Barashi	Azarunji	Kwalabala	
Niger	Seteku	Mahuta	Azamate	Peshire	
Niger	Sadawanka	Kpan	Azakagu	Tungan Masu	
Niger	Pissa	Kokoli		Binua	

	Affected Communities of JAS Flooding in HA I		
STATE	Within 2km	Within 4km	Within 6km
Sokoto	Tanera	Kakosso	Gudambe
Sokoto	Tafarka	Kirgwanda	
Sokoto	Male	Katami	
Sokoto	Illela Kwaydu	Duchin Kura	
Sokoto	Doke		
Sokoto	Dafasi		
Sokoto	Birnin Tudu		

	Affected Communities of ON Flooding in HA I			
STATE	Within 2km		Within 4km	Within 6km
Sokoto	Yerimawa	Isa	Bwaka Hamadawa	Mareke
Sokoto	Yabawa	Illela Kwaydu	Kaura	Kaurare
Sokoto	Wurno	Hamma Ali	Wanke	Kalangu
Sokoto	Wumumu	Gwarka Ido	Kaura	Gadara Magaji
Sokoto	Wanfere	Gumbi	Kangi	Nasarawa
Sokoto	Wamako	Gumbenawa	Adegata	Kangi Balaru
Sokoto	Umara	Goronyo	Adamu	Lambagel
Sokoto	Ubandoma	Gone	Tabkin Kaiwa	Chanchama Bussa
Sokoto	Turba	Girawsi	Baware	Bussa Mangu
Sokoto	Tungan Samberu	Gidan Tudu	Horo Birni	Lukachi
Sokoto	Tukudawa	Gidan Dan Giwa	Maiturare	Rugar Magaji
Sokoto	Tugan Bujoije	Gidan Bawura	Gidan Sarkin Dutse	Ginga
Sokoto	Tudai	Gidan Bango	Dagawa	Gagawa
Sokoto	Tsugune	Gidan Badua	Rugan Kale	Donu
Sokoto	Tsofo	Gidan Ardo	Kakosso	Yabo
Sokoto	Tsamiya	Getere	Binjin Muza	Mazari
Sokoto	Tsamai	Gawasu	Yakanari	Magachi
Sokoto	Tozo	Gauro	Daguwaga	Dendi
Sokoto	Tozei	Gatawa	Gari	Jirgu
Sokoto	Tara	Gangari	Kuringa	Danchadi
Sokoto	Tanera	Ganga	Alkaliji	Dabaga
Sokoto	Taloka	Gandi	Kura Munjo	Bamge Tudu
Sokoto	Takalmawa	Fatara	Ilela	Bode
Sokoto	Tafarka	Dundaye	Lordubi	Kibiare
Sokoto	Silbawa	Dundaye	Kwaydasa	Toma
Sokoto	Silame	Duban Sarkin Pawa	Bukoli	Bodinga
Sokoto	Sifawa	Duba Jalo	Kaura	Gudambe
Sokoto	Shinkafi	Dorawa	Jirgi Kumata	Dan Ajiwa
Sokoto	Shagari	Doke	Garanga	Alfala
Sokoto	Sardauna	Dinawa	Kirgwanda	Gubrawa
Sokoto	Sangiwa	Delhera	Madukka	Galadi
Sokoto	Sabon Gari	Degel	Kwalfa	Fulani
Sokoto	Sabon Birni	Dawadayaru	Dingyadi	Tuluwa
Sokoto	Rugar Jatau	Dan Tudu	Katami	Horo Majakai
Sokoto	Rugan Gamau	Dan Tudu	Marafa Gungu	Masawa
Sokoto	Rinai	Dan Karmawa	Lokobi Magaji	Kursa
Sokoto	Maraya	Dankala	Rugar Yantu	Sagge
Sokoto	Mankeri	Dandaji	Badawa	Modo
Sokoto	Mallamawa	Daje	Sokoto	Gidan Fadama
Sokoto	Mallamawa	Dafasi	Gande	Makera

Sokoto	Mabera	Chanawa	Kaiaji	Tulutu
Sokoto	Lugere	Budade	Alkamu	Kwakwazo
Sokoto	Lambara	Bosaji	Tangwale	Allakalawa
Sokoto	Kwambama	Birnin Tudu	Bijeje	
Sokoto	Kurukuru	Bergaja	Makwarua	
Sokoto	Kurawa	Bela	Dole	
Sokoto	Kubodu	Barsawa	Balla	
Sokoto	Kirare	Bamage Tudu	Kagara Rina	
Sokoto	Kauran Mallam	Badiya	Bari	
Sokoto	Kaura	Badau	Birzunga	
Sokoto	Kaura	Atalawa	Gyaya	
Sokoto	Kalambaina	Asare	Mashaya	
Sokoto	Jargaba	Anatudu	Kaikaimako	
Sokoto	Jaredi	Adarawa	Unguwa Lalle	

	Affected Communities of ON Flooding in HA I			
STATE	Within 2km	Within 4km	Within 6km	
Zamfara	Zurmi	Kwoji	Gidan Abu	Bakura
Zamfara	Mashema	Gidan Beriberi	Gidan Bawa Gaga	Dutsi
Zamfara	Kwarin Zurmi	Gidan Dawai	Gidan Yakubu	Tsibiri
Zamfara	Kalage	Furifuri	Gidan Babagoji	Kursasa
Zamfara	Gidan Usuman	Bungudu	Auki	Kwadi
Zamfara	Gidan Sodangi	Gidan Dango	Sarkin Rafi	
Zamfara	Gidan Shanono	Galewa	Bolaii	
Zamfara	Gidan Sardo	Bokolori	Karakai	
Zamfara	Gidan Nayo	Rini	Gidan Goberawa	
Zamfara	Gidan Nagambu	Dampo	Gidan Kano	
Zamfara	Gidan Madawaki	Nasarawa	Marge	
Zamfara	Gidan Biza	Moriki	Dambaza	
Zamfara	Dufu	Bazai	Talata Mafara	
Zamfara	Dosara	Jangero	Makera	
Zamfara	Dole	Katuru	Namoda	
Zamfara	Baraia Zaki		Yarkofoji	
Zamfara	Badarawa		Gora	

	Affected Communities of AMJ Flooding in HA II			
STATE	Within 2km		Within 4km	Within 6km
Kogi	Yasisule	Kukaragi	Filele	Gbendu
Kogi	Yashiyali	Jamata	Otuba	Oji

Kogi	Yanemi	Iziho	Emoa	Ozahi
Kogi	Wodata	Gogoro	Koton Karifi	Rakpaku
Kogi	Wara	Dere	Okoto	Bogboru
Kogi	Shikaku	Banda	Budon	Losuta
Kogi	Okume	Banda	Sunawa	Yekaraji
Kogi	Okponyo	Arugaga	Batake	Eki
Kogi	Ohinki	Agodo	Ebo	
Kogi	Numai	Adana	Agini	
Kogi	Kuroko	Adama	Kapu	
Kogi	Kuma	Adaha		

	Affected Communities of JAS Flooding in HA II			
STATE	Within 2km		Within 4km	Within 6km
Kogi	Yasisule	Kukaragi	Filele	Gbendu
Kogi	Yashiyali	Jamata	Otuba	Oji
Kogi	Yanemi	Iziho	Emoa	Ozahi
Kogi	Wodata	Gogoro	Koton Karifi	Rakpaku
Kogi	Wara	Dere	Okoto	Bogboru
Kogi	Shikaku	Banda	Budon	Losuta
Kogi	Okume	Banda	Sunawa	Yekaraji
Kogi	Okponyo	Arugaga	Batake	Eki
Kogi	Ohinki	Agodo	Ebo	
Kogi	Numai	Adana	Agini	
Kogi	Kuroko	Adama	Kapu	
Kogi	Kuma	Adaha		

	Affected Communities of AMJ Flooding in HA II			
STATE	Within 2km		Within 4km	Within 6km
Kwara	Sunti	Ekopapo Yagi	Wando	Rogun
Kwara	Shonga	Dalcada	Kutug	Kpada
Kwara	Ogudu	Bido	Fai	Etchi
Kwara	Muchita	Belle	Kusoji	Gbog
Kwara	Likpata	Baradogi	Pategi	Raen
Kwara	Kusoti		Gudusuru	Dzuajiwo
Kwara	Jebba		Kusodo	Lade
Kwara	Gardi		Bacita	Shekwuti
Kwara	Gapan			Megikitagi
Kwara	Fort Goldie			Dumaji
Kwara	Etsuyum			Manuga

	Affected Communities of JAS Flooding in HA II		
STATE	Within 2km	Within 4km	Within 6km

Kwara	Sunti	Igbono	Alavin
Kwara	Shonga	Wando	Gamo Oko
Kwara	Ogudu	Kutug	Rogun
Kwara	Muchita	Fai	Kpada
Kwara	Likpata	Kusoji	Etchi
Kwara	Kusoti	Pategi	Gbog
Kwara	Jebba	Gudusuru	Raen
Kwara	Gardi	Kusodo	Dzuajiwo
Kwara	Gapan	Bacita	Lade
Kwara	Fort Goldie		Shekwuti
Kwara	Etsuyum		Megikitagi
Kwara	Ekopapo Yagi		Dumaji
Kwara	Dalcada		Manuga
Kwara	Bido		
Kwara	Belle		
Kwara	Baradogi		

	Affected Communities of AMJ Flooding in HA II			
STATE	Within 2km		Within 4km	Within 6km
Niger	Zakagi	Koshaba	Gazhe	Gwodoti
Niger	Tungar Ndachi Dagwaji	Kokodi	Pashaka	Lafiagi
Niger	Sungogi	Gungiborku	Kunkuti	
Niger	Soji	Gana	Tsafa	
Niger	Rani	Gambogi	Bassagi	
Niger	Rabba	Danko	Gidan Salifu	
Niger	Maraba	Bukah	Karo	
Niger	Kylema	Bajibo		
Niger	Kusoziko			

	Affected Communities of JAS Flooding in HA II		
STATE	Within 2km	Within 4km	Within 6km
Niger	Zakagi	Gazhe	Gwodoti
Niger	Tungar Ndachi Dagwaji	Pashaka	Lafiagi
Niger	Sungogi	Kunkuti	
Niger	Soji	Tsafa	
Niger	Rani	Bassagi	
Niger	Rabba	Gidan Salifu	
Niger	Maraba	Karo	
Niger	Kylema		
Niger	Kusoziko		
Niger	Koshaba		
Niger	Kokodi		
Niger	Gungiborku		
Niger	Gana		
Niger	Gambogi		
Niger	Danko		
Niger	Bukah		
Niger	Bajibo		

	Affected Communities of JAS Flooding in HA III			
STATE	Within 2km		Within 4km	Within 6km
Adamawa	Zeken	Kunkun	Lakare	Bole
Adamawa	Yolde Pate	Kulango	Tutare	Wuro Ardo Kyari
Adamawa	Yanga	Kudiri	Parda	Gaawi
Adamawa	Wuro Yero	Kpakmiagi	Yola	Sabere
Adamawa	Wuro Waziri Gadawa	Kojola	Wuro Hausa	Jalingo
Adamawa	Wuro Kareji	Koh	Kapo	Namtari Manga
Adamawa	Wuro Hausa	Kiri	Wamgo Dasin	Rumnde Mallum
Adamawa	Wuro Dole	Kelu	Wuro Leggal	Lugga
Adamawa	Wuro Buba	Karal	Wauro Jabbe	Kofare
Adamawa	Wuro Bokki	Kapalakan	Ibarre	Kojolare
Adamawa	Wuro Bokki	Kangli	Dolabe	Gada Ndiyam
Adamawa	Wuro Ali	Kademin	Njobbore	Wuro Jubawo
Adamawa	Wuro Alhaji	Kade	Wuro Tammai	Maliki
Adamawa	Waduku	Kabawa	Damare	Bukaji
Adamawa	Tikka	Jumbul	Bogalere	Bolki
Adamawa	Tignon	Jimeta	Wuro Talla	Bakin Diwe
Adamawa	Tigno	Jambutu	Chabbal	Dong
Adamawa	Tahau	Imburu	Sabon Gari Goduwo	Ngbolung
Adamawa	Shindiwi	Gugu	Bomu	Kokumso
Adamawa	Shime	Goratoro	Changala	Yelwa
Adamawa	Shellen	Gereng	Pariya	Ruga Fulani
Adamawa	Salti	Gembeusi	Lawaru	Mbway
Adamawa	Sabon Gari Jahadi	Gamadio	Gokra	Vulpi
Adamawa	Sabewa	Fufore	Gawon	Sabolayi Gayakan
Adamawa	Rumnde Waziri	Duringwan	Dowaya	Ringange
Adamawa	Purokayo	Dolabe	Farei	Giwano
Adamawa	Opalo	Dilli	Gergbakai	Bakobi
Adamawa	Nzuruwei	Dasin Hausa	Ngwalti	Wuro Munchi
Adamawa	Numan	Damare	Demsa	Lainde Dama
Adamawa	Njanjen	Dabewa	Wuro Jatau	Tetek
Adamawa	Ngolomba	Chumun	Hoki	Garin Mairakuni
Adamawa	Ngederen	Chawa	Dagiyo	Bodwai
Adamawa	Ngbalapin	Bungudu	Buso	Bongo
Adamawa	Ngbalang	Borrong	Bange	Birna
Adamawa	Ngbakowan	Bobore	Wuro Waziri Shabal	Ungwar Sarkin Shiga
Adamawa	New Demsa	Bilachi	Jigawa	Gudaba

Adamawa	Ndasso	Bariel	Labua	
Adamawa	Ndangelan	Bare	Wuro Jauro Amadu	
Adamawa	Mbula	Banjiram	Gelode	
Adamawa	Mbomara	Bajabure	Wuro Jauro Atiku	
Adamawa	Madumari	Bagale	Kwadedah	
Adamawa	Mada		Gwagarab	
Adamawa	Lugga		Mabonde	
Adamawa	Lugga		Gidan Koshi	
Adamawa	Loli		Dangara	
Adamawa	Linga Tassala		Gerengi	
Adamawa	Lakumna Fari		Bobbini	
Adamawa	Lakumna		Wuro Bajam	
Adamawa	Labondo		Bolama	
Adamawa	Kwa		Bindim	

	Affected Communities of JAS Flooding in HA III					
STATE	Within 2km				Within 4km	Within 6km
Borno	Yola Fufanga	Panshani	Hentira	Dandang	Kongma	Lechina
Borno	Yederi	Maringa	Hamma Lamu	Dalhat	Gorawa	Kumo
Borno	Wuro Umaru Boronuna	Mallam Batta	Hamma Aji	Dadinkowa	Kalagar	Boragu
Borno	Wuro Modibbo Sajo	Mada	Gwabela	Chekaparau	Bakaina	Auro Jamari
Borno	Wuro Jauro Yaya	Lebiki	Guma Fina	Budun Gulum	Ngabu	Yoolari
Borno	Wuro Jauro Maiganga	Labau	Gugulu	Bodenu	Golum	Wuro Jam
Borno	Wuro Jauro Hamadu	Kwal	Gorumba	Birakondo	Nafada	Wunje
Borno	Wuro Jauro Bello	Kubo	Gora	Bele	Tafe	Wuro Mali
Borno	Wuro Jauro Barka	Kopla	Gopongalang	Befera	Pan Shani	Parda
Borno	Wuro Jatau	Kombo	Gondong	Bedenu	Tsohon Shani	Lapadi
Borno	Wuro Bokki	Kera Laji	Garubani Babba		Shani	
Borno	Tumbu	Kashim	Gahri		Leberi	
Borno	Tasha	Jeri	Gadawarka		Mbagu	
Borno	Proguala	Jeki	Feshingo		Gormado	
Borno	Pilei	Jeki	Dutuki		Gwaskara	

	Affected Communities of JAS Flooding in HA III		
STATE	Within 2km	Within 4km	Within 6km
Gombe	Nil	Nil	Kalaki

	Affected Communities of JAS Flooding in HA III			
STATE	Within 2km		Within 4km	Within 6km
Taraba	Yashin Tuwo	Kwantan Muri	Ndawala	Mutum Biyu
Taraba	Wuro Tafida	Kanawa	Garin Mallam Abba	Wuro Hausa
Taraba	Wuro Karal	Jiru Wudaru	Garin Buba Liman	Kelembije
Taraba	Ungwar Ahmadu	Jen Kaigama	Garin Jauro Gurama	Nemnei
Taraba	Timtim	Jen	Pomi	Garin Saidu
Taraba	Shagarda	Jem Petel	Didango	Tau
Taraba	Ngaruwa	Gurowa	Dobelli	Kuka
Taraba	Mayo Ranewo	Garin Mallam Abdul	Garin Dogo	Lushe
Taraba	Lau Habe	Garin Gada	Garin Mashi	Gidan Usmanu
Taraba	Lau Fulani	Donadda	Karamukil	Jegan Maunde
Taraba	Lau	Baranda	Kunini	Bang
Taraba	Lakawa	Baradi	Bandawa	
Taraba	Kwatan Nanido	Bajumba		
Taraba	Kwata Kanawa	Badekwoshi Wurkum		

	Affected Communities of AMJ Flooding in HA IV		
STATE	Within 2km	Within 4km	Within 6km
Kogi	Suli	Odugbo	Nyankpo
Kogi	Onyebu	Kara	Konu
Kogi	Oguma	Lundu	Odenyi
Kogi	Mozum	Baki	Duru
Kogi	Kukuri	Binto	Iyede
Kogi	Dangerri	Akpakudu	Nyimoa
Kogi	Amara	Nyebu	Inegu
Kogi		Kworaki	Zarkama
Kogi		Yelwa	Kwiambana
Kogi			Bishua

	Affected Communities of JAS Flooding in HA IV		
STATE	Within 2km	Within 4km	Within 6km
Kogi	Zugbe	Odugbo	Nyankpo
Kogi	Suli	Kara	Konu
Kogi	Onyebu	Lundu	Odenyi
Kogi	Ohaifo	Baki	Duru
Kogi	Oguma	Binto	Iyede
Kogi	Ogba	Iole	Nyimoa
Kogi	Odagba	Akpakudu	Inegu
Kogi	Mozum	Ejima	Zarkama
Kogi	Maiagu	Nyebu	Kwiambana

Kogi	Kukuri	Kworaki	Nupe
Kogi	Egim	Yelwa	Bishua
Kogi	Dangerri		
Kogi	Bagana		
Kogi	Amara		
Kogi	Amagede		

	Affected Communities of JAS Flooding in HA IV			
STATE	Within 2km		Within 4km	Within 6km
Nasarawa	Wambe		Okokolo	Utagudu
Nasarawa	Umaisha	Epe	Rukubi	Zagana
Nasarawa	Udeni	Ekpa	Ekwakwa	Agima
Nasarawa	Tunga	Egud	Gidan Oga	Akerra
Nasarawa	Muntscheri	Atsongugh	Kumburu	Okoro
Nasarawa	Mbashara	Akpoko	Langayi	Kyereku
Nasarawa	Loko	Adausu	Gororoku	Ogusu
Nasarawa	Kyaraku	Aburu	Shata	Tsofon Tunga
Nasarawa	Kosunu		Afura	Uma
Nasarawa	Kakana		Gaura	Hure
Nasarawa	Iga		Owegi	Gban
Nasarawa	Gabara		Azara	Maisamari

	Affected Communities of JAS Flooding in HA IV			
STATE	Within 2km		Within 4km	Within 6km
Taraba	Zongo	Gidan Nufawa	Wapowa	Sakpa
Taraba	Wuro Shakau	Gidan Isubu	Wamgbe	Kanon Kabawa
Taraba	Wuro Jam	Gidan el Haji	Kwatan Boya	Bantaji
Taraba	Wurno	Gidan Atoro	Hoyon	Kauyen Boyi
Taraba	Wurio	Gassol	Zebu	Garwa
Taraba	Wurbo	Garko	Usmman	Gidan Adogo
Taraba	Sendirdi	Garin Dali	Kikundu	Kambari
Taraba	Sansanne	Gada Mayo	Chinka	
Taraba	Nyankola	Dundewa	Kauyen Sarkin Baka	
Taraba	Nordorough	Dadin Kowa	Kauyen Moyi	
Taraba	Njiddawo	Chan Gasuwa	Kauyen Issa	
Taraba	Kwawu	Anzwa	Madani	
Taraba	Kishr	Amar	Nanguru	
Taraba	Kaza	Adi	Shinye	
Taraba	Jubu		Garin Kusa	
Taraba	Ikpajia		Nafuche	
Taraba	Ibi		Garin Mallam Babba	

Taraba	Gwiwan Kogi		Zudei	
Taraba	Gurbe Jibu		Garin Mallam Bawa	
Taraba	Gungu Abdulahi		Dampar	
Taraba	Gungu		Karel	
Taraba	Gidan Ulu		Shika	
Taraba	Gidan Sufa		Zip	

	Affected Communities of AMJ Flooding in HA V			
STATE	Within 2km		Within 4km	Within 6km
Anambra	Umunankwo	Odekpe	Iyiowa Odekpa	Nkpor
Anambra	Umuleri	Obagwe	Ani Nkwa Anam	Ogbunike
Anambra	Umueze Anam	Nkwelle	Umudora Umuikwu	Ukwu Abwa
Anambra	Umuenwelum	Ikenga Umuleri	Nzam	Nsugbe
Anambra	Ossomari	Ibokye	Orania Otu	Umuleri
Anambra	Oshita	Eruna Lagbe		Nando Ikem
Anambra	Oroma Etiti	Atani		Isinyi-Nando
Anambra	Onono	Atani		Igbariam
Anambra	Ogbakuma	Aguleri		

	Affected Communities of JAS Flooding in HA V				
STATE	Within 2km		Within 4km	Within 6km	
Anambra	Umunankwo	Ndikelionwu	Amaeshi	Osuakwa	Enugu Ukwu
Anambra	Umuleri	Nanka	Akpo	Uga	Nibo Nise
Anambra	Umueze Anam	Ikenga Umuleri	Okpulukpu	Agbudu	Ogbunike
Anambra	Umuenwelum	Ifute	Ekwulobia	Agulezechuku	Ndiagu
Anambra	Umuchu	Ibughubu	Ndiowu	Aguata	Ukwu Abwa
Anambra	Ossomari	Ibokye	Iyiowa Odekpa	Isuofia	Nsugbe
Anambra	Oshita	Eruna Lagbe	Agulu	Akwaeze	Umuleri
Anambra	Oroma Etiti	Erieata	Oraukwu	Obeledu	Nando Ikem
Anambra	Onono	Enugu Otu	Nise	Ichida	Isinyi-Nando
Anambra	Onoia	Atani	Ani Nkwa Anam	Neni	Igbariam
Anambra	Oka	Atani	Umudora Umuikwu	Umuoja Obosi	Omo
Anambra	Ogbu	Aguleri	Nzam	Obosi	
Anambra	Ogbakuma	Agukwu Nri	Anaku	Mgbaukwu	
Anambra	Odekpe	Adazi	Orania Otu	Nkpor	
Anambra	Obagwe	Achina	Igbaku	Umuawulu	
Anambra	Nkwelle		Omashi	Nimo	

	Affected Communities of AMJ Flooding in HA V				
STATER	Within 2km			Within 4km	Within 6km
Bayelsa	Yenaka	Ogilagbene	Erereghakiri	Egwema	Liama
Bayelsa	Tuluama	Ofoniama	Elepa	Beletiama	Kunupogu
Bayelsa	Tuinpega	Ofoni	Ekowe	Wagetie	Dikimatubu
Bayelsa	Tuimpeigagbene	Odobor	Ekowe	Orukulu	Sengana
Bayelsa	Torugbene	Obioku	Ekinigbene	Egeregere	Kamborra
Bayelsa	Toropani	Obeleli	Ekiambiri	Ikei	Tebidaba
Bayelsa	Tombia	Nengigbene	Ekenie	Ereweibio	Ikeinsi
Bayelsa	Seibokorogha	Munighakiri	Ekemakiri	Botokiri	Olugbogbene
Bayelsa	Seibiri	Monikiri	Egwema	Namatebe	Sangakubu
Bayelsa	Segpe	Minibio	Ebekiri	Kolagbene	Tengikiri
Bayelsa	Sangapiri	Mbiakpaba	Diebu	Namapogu	Fatumakiri
Bayelsa	Samsonkiri	Lasukugbene	Captninakiri	Tukogbene	Basuokiri
Bayelsa	Samabri	Kulama	Buragbene	Pirigbene	Atubo
Bayelsa	Sagbama	Korama	Bumodi	Okigbene	Forupa
Bayelsa	Polaku	Kongo	Bolougbene	Ayougbene	Agada
Bayelsa	Peremabiri	Kinkiamabugo	Bisagbene	Polobogo	Lobia Market
Bayelsa	Oyobu	Kimigbene	Biogbolo	Ikebiri	Olugbobiri
Bayelsa	Oyeregbene	Keleigbene	Bio Aguobiri	Abagbene	Emette
Bayelsa	Oweikorogba	Karabapogu	Bilabri	Ikeinyabiri	Eniwari
Bayelsa	Otuan	Kalama	Belelebiri	Korokorosei	Ondewari
Bayelsa	Otokolopiri	Kalabilema	Ayebabiri	Kainyabiri	Okpotuwari
Bayelsa	Osokoma	Kaiama	Aya Ama	Agidigbene	Umbugbene
Bayelsa	Orubiri	Kabiana	Asungbene	Luduon	Ogbonogbene
Bayelsa	Opuama	Ipirigbene	Asikoro	Angiamagbene	Ajatiton
Bayelsa	Oporoma	Ikpidiar	Arua	Bisagbene	Akaba
Bayelsa	Oporogbene	Ikorumogbene	Anyama	Amabilou	Ogu
Bayelsa	Onyoma	Ikolo	Anubeze	Yenagoa	Swali
Bayelsa	Onupa	Ikibiri	Angiama	Amatu	Yenizue Epie
Bayelsa	Oni	Ijaw	Ama Uzu	Akete	Kpansia
Bayelsa	Olugbogbene	Igeibiri	Amassoma	Okutukutu	Ekeke
Bayelsa	Olugbobiri	Igbematoru	Akumani	Okumbiri	Opu Yenizue
Bayelsa	Olodi	Igbainwari	Akaubiri	Amatolo	Fotorugbene
Bayelsa	Olobiri	Ibia	Aguobiri	Egbedi	Opolo
Bayelsa	Olobia	Golubokiri	Agudama	Aguru	Ajamobri
Bayelsa	Okpotububo	Gbarantoru	Agberi	Zarama	
Bayelsa	Okpotububo	Gbarama	Adagbabri	Karama	
Bayelsa	Okpoma	Fangbe	Abolikiri	Ayamassa	
Bayelsa	Ogoubiri	Ewelesua	Abolikiri	Mbooko Umuobo	

	Affected Communities of JAS Flooding in HAV				
STATE	Within 2km			Within 4km	Within 6km
Bayelsa	Yenaka	Ofoni	Ekinigbene	Egwema	Liama
Bayelsa	Tuluama	Odobor	Ekiambiri	Beletiama	Kunupogu
Bayelsa	Tuinpega	Obioku	Ekenie	Wagetie	Dikimatubu
Bayelsa	Tuimpeigagbene	Obeleli	Ekemakiri	Orukulu	Sengana
Bayelsa	Torugbene	Nengigbene	Egwema	Egeregere	Kamborra
Bayelsa	Toropani	Munighakiri	Ebekiri	Ikei	Tebidaba
Bayelsa	Tombia	Monikiri	Diebu	Ereweibio	Ikeinsi
Bayelsa	Seibokorogha	Minibio	Captninakiri	Botokiri	Olugbogbene
Bayelsa	Seibiri	Mbiakpaba	Buragbene	Namatebe	Sangakubu
Bayelsa	Segpe	Lasukugbene	Bumodi	Kolagbene	Tengikiri
Bayelsa	Sangapiri	Kulama	Bolougbene	Namapogu	Fatumakiri
Bayelsa	Samsonkiri	Korama	Bisagbene	Tukogbene	Basuokiri
Bayelsa	Samabri	Kongo	Biogbolo	Pirigbene	Atubo
Bayelsa	Sagbama	Kinkiamabugo	Bio Aguobiri	Okigbene	Forupa
Bayelsa	Polaku	Kimigbene	Bilabri	Ayougbene	Agada
Bayelsa	Peremabiri	Keleigbene	Belelebiri	Polobogo	Lobia Market
Bayelsa	Oyobu	Karabapogu	Ayebabiri	Ikebiri	Olugbobiri
Bayelsa	Oyeregbene	Kalama	Aya Ama	Abagbene	Emette
Bayelsa	Oweikorogba	Kalabilema	Asungbene	Ikeinyabiri	Eniwari
Bayelsa	Otuan	Kaiama	Asikoro	Korokorosei	Ondewari
Bayelsa	Otokolopiri	Kabiana	Arua	Kainyabiri	Okpotuwari
Bayelsa	Osokoma	Ipirigbene	Anyama	Agidigbene	Ozezebiri
Bayelsa	Orubiri	Ikpidiar	Anubeze	Luduon	Odobio
Bayelsa	Opuama	Ikorumogbene	Angiama	Angiamagbene	Umbugbene
Bayelsa	Oporoma	Ikolo	Ama Uzu	Otuokpot	Otuogori
Bayelsa	Oporogbene	Ikibiri	Amassoma	Agbura	Ogbonogbene
Bayelsa	Onyoma	Ijaw	Akumani	Bisagbene	Ajatiton
Bayelsa	Onupa	Igeibiri	Akaubiri	Amabilou	Akaba
Bayelsa	Oni	Igbematoru	Aguobiri	Yenagoa	Ogu
Bayelsa	Olugbogbene	Igbainwari	Agudama	Amatu	Swali
Bayelsa	Olugbobiri	Ibia	Agberi	Akete	Yenizue Epie
Bayelsa	Olodi	Golubokiri	Adagbabri	Okutukutu	Kpansia
Bayelsa	Olobiri	Gbarantoru	Abolikiri	Okumbiri	Ekeke
Bayelsa	Olobia	Gbarama	Abolikiri	Amatolo	Opu Yenizue
Bayelsa	Okpotububo	Fangbe		Egbedi	Fotorugbene
Bayelsa	Okpotububo	Ewelesua		Aguru	Opolo
Bayelsa	Okpoma	Erereghakiri		Zarama	Ajamobri
Bayelsa	Ogoubiri	Elepa		Karama	Joinkrama
Bayelsa	Ogilagbene	Ekowe		Ayamassa	
Bayelsa	Ofoniama	Ekowe		Mboko Umuobo	

	Affected Communities of ON Flooding in HA V			
STATE	Within 2km		Within 4km	Within 6km
Bayelsa	Tuluama	Kimigbene	Egwema	Liama
Bayelsa	Tuinpega	Keleigbene	Beletiama	Kunupogu
Bayelsa	Tuimpeigagbene	Karabapogu	Wagetie	Dikimatubu
Bayelsa	Torugbene	Kalabilema	Orukulu	Sengana
Bayelsa	Seibiri	Ipirigbene	Egeregere	Kamborra
Bayelsa	Segpe	Ikorumogbene	Ikei	Tebidaba
Bayelsa	Sangapiri	Ijaw	Ereweibio	Ikeinsi
Bayelsa	Samsonkiri	Igeibiri	Botokiri	Olugbogbene
Bayelsa	Peremabiri	Igbematoru	Namatebe	Sangakubu
Bayelsa	Oyeregbene	Golubokiri	Kolagbene	Tengikiri
Bayelsa	Otuan	Ewelesua	Namapogu	Fatumakiri
Bayelsa	Otokolopiri	Erereghakiri	Tukogbene	Basuokiri
Bayelsa	Osokoma	Elepa	Pirigbene	Atubo
Bayelsa	Oporoma	Ekowe	Okigbene	Forupa
Bayelsa	Oporogbene	Ekinigbene	Ayougbene	Agada
Bayelsa	Onyoma	Ekiambiri	Polobogo	Lobia Market
Bayelsa	Oni	Ekenie	Ikebiri	Olugbobiri
Bayelsa	Olugbogbene	Ekemakiri	Abagbene	Emette
Bayelsa	Olugbobiri	Egwema	Ikeinyabiri	Eniwari
Bayelsa	Olodi	Ebekiri	Korokorosei	Ondewari
Bayelsa	Olobia	Diebu	Kainyabiri	Okpotuwari
Bayelsa	Okpotububo	Captninakiri	Agidigbene	Ajatiton
Bayelsa	Okpoma	Buragbene	Luduon	Ajamobri
Bayelsa	Ogilagbene	Bolougbene	Angiamagbene	
Bayelsa	Obioku	Bisagbene	Bisagbene	
Bayelsa	Nengigbene	Bio Aguobiri	Amabilou	
Bayelsa	Munighakiri	Bilabri	Amatu	
Bayelsa	Monikiri	Asungbene	Okumbiri	
Bayelsa	Minibio	Angiama	Amatolo	
Bayelsa	Mbiakpaba	Amassoma	Ayamassa	
Bayelsa	Lasukugbene	Aguobiri		
Bayelsa	Kulama	Abolikiri		
Bayelsa	Kongo	Abolikiri		
Bayelsa	Kinkiamabugo			

	Affected Communities of AMJ Flooding in HA V			
STATE	Within 2km		Within 4km	Within 6km
Delta	Utuoku	Illah	Tuomo	Tamigbe
Delta	Umugboma	Frukama	Tebegbe	Ekumugbene
Delta	Ugu Ozala	Ezebri	Nikoragba	Inenevwu
Delta	Patani	Ewu	Aven	Ogoda

Delta	Ovwo	Evurode	Koloware	Obrifo
Delta	Otedo	Bikoroga	Okrigo	Iwhrogun
Delta	Osimili	Asemoke	Iwhreredje	Okuama
Delta	Onya	Asaba Assay	Iwhrakpoyibo	Orere
Delta	Ononofu	Asaba	Aravbarien	Oguname
Delta	Olodiama	Alota	Iwhrokpe	Akperhe
Delta	Okwe	Aloba	Iwhrorha	Imode
Delta	Okwagbe	Alagbabiri	Oviri Olomu	Umolo
Delta	Okrika	Akugbene	Okwagbe Inland	
Delta	Okpokunu	Adaiwai	Ovwakwa	
Delta	Okpari	Aboh	Oginibo	
Delta	Okparabe	Abari	Iwhroku	
Delta	Okpai		Ayagha	
Delta	Oko Amakom		Kiagbodo	
Delta	Ogbodobri		Ovwodokpokpor	
Delta	Ogbeinbene		Erhuware	
Delta	Ofoni		Ovhori	
Delta	Odorubo		Okpe	
Delta	Ngegwu		Agbon	
Delta	Kpakiama		Ovhorigbata	
Delta	Keonokpo		Usiefrun	
Delta	Iwhrogoni		Ekrejegbe	
Delta	Iwhrobi		Ekrokpe	
Delta	Iwhredolor		Ekakpamre	
Delta	Iwhrasuobi		Asaba Okpai	
Delta	Iwhrakara		Abara Uno	
Delta	Ingene		Odozienu	
Delta	Illah Waterside		Aniomodue	

	Affected Communities of JAS Flooding in HA V				
STATE	Within 2km		Within 4km		Within 6km
Delta	Utuoku	Keonokpo	Tuomo	Ovhori	Tamigbe
Delta	Umugboma	Iwhrogoni	Tebegbe	Okpe	Ekumugbene
Delta	Umeh	Iwhrobi	Nikoragba	Agbon	Utakele
Delta	Ugu Ozala	Iwhredolor	Aven	Oviri Ogor	Erregha
Delta	Ughelli	Iwhrasuobi	Koloware	Edjovhe	Inenevwu
Delta	Patani	Iwhrakara	Okrigo	Ovhorigbata	Ogoda
Delta	Ovwo	Ingene	Ogidivbi	Usiefrun	Obrifo
Delta	Otedo	Illah Waterside	Ashogho	Ekrejegbe	Iwhrogun
Delta	Osimili	Illah	Ariogheta	Ekrokpe	Okuama
Delta	Onya	Frukama	Iwhreredje	Ekakpamre	Orere
Delta	Ononofu	Ezebri	Iwhrakpoyibo	Asaba Okpai	Oguname
Delta	Olodiama	Ewu	Aravbarien	Abara Uno	Erhurigbedi

Delta	Okwe	Evurode	Iwhrokpe	Odozienu	Akperhe
Delta	Okwagbe	Bikoroga	Iwhrorha	Aniomodue	Imode
Delta	Okrika	Asemoke	Iwhrorude		Umolo
Delta	Okpokunu	Asaba Assay	Oviri Olomu		Adjekota
Delta	Okpari	Asaba	Okwagbe Inland		Ukpiovwi
Delta	Okparabe	Arohwa	Ovwakwa		Otudu
Delta	Okpai	Alota	Oginibo		Ogor
Delta	Oko Amakom	Aloba	Iwhroku		Owodokpokpor
Delta	Ogbodobri	Alagbabiri	Ayagha		Owhrode
Delta	Ogbeinbene	Akugbene	Kiagbodo		Eruemukohwarien
Delta	Ofoni	Adaiwai	Ovwodokpokpor		Ododegbo
Delta	Odorubo	Aboh	Erhuware		Okuenebele
Delta	Ngegwu	Abari			
Delta	Kpakiama				

	Affected Communities of AMI Flooding in HA V		
STATE	Within 2km	Within 4km	Within 6km
Edo	Uwpeko	Agor	Ivioghe
Edo	Ofugbo		Ithevuegbe
Edo	Atawa		Itogbo
Edo	Agenebode		Uzanu
Edo	Ilushi		

	Affected Communities of JAS Flooding in HA V		
STATE	Within 2km	Within 4km	Within 6km
Edo	Uwpeko	Agor	Ivioghe
Edo	Ofugbo		Ithevuegbe
Edo	Atawa		Itogbo
Edo	Agenebode		Uzanu
Edo	Ilushi		

	Affected Communities of AMI Flooding in HA V			
STATE	Within 2km		Within 4km	Within 6km
Kogi	Utoduma	Icheu	Ojuba	Nabure
Kogi	Takumena	Geregu	Ibaoko	Emikudamisi
Kogi	Shintaku	Gbakel	Adam	Kpatakpoli
Kogi	Ota	Gbagede	Chita	Adonkolo
Kogi	Onyedega	Gbagbachi	Kpato	
Kogi	Onado	Eroko		
Kogi	Ojigagala	Ero		

Kogi	Ohunene	Emiwoziri		
Kogi	Ogaine	Egbu		
Kogi	Lokoja	Atakpa		
Kogi	Kuroko	Ajaokuta		
Kogi	Koji	Agbagbojo		
Kogi	Irahun	Abujaga		

	Affected Communities of JAS Flooding in HA V			
STATE	Within 2km		Within 4km	Within 6km
Kogi	Utoduma	Ibochi	Ojuba	Olojoba
Kogi	Takumena	Geregu	Okwoengele	Egabada
Kogi	Shintaku	Gbakel	Afa	Akopo
Kogi	Ota	Gbagede	Ibaoko	Egbala
Kogi	Onyedega	Gbagbachi	Ajitata	Adadeju
Kogi	Onado	Eroko	Angba	Akunuba
Kogi	Okpo	Ero	Akuba	Nabure
Kogi	Okokengi	Emiwoziri	Otochi	Emikudamisi
Kogi	Okama	Eke Amanenga	Adam	Kpatakpoli
Kogi	Ojigagala	Egbu	Chita	Adonkolo
Kogi	Ohunene	Ayanka	Kpato	
Kogi	Ogaine	Atakpa		
Kogi	Lokoja	Alo		
Kogi	Kuroko	Alakwa		
Kogi	Koji	Alakija		
Kogi	Itobe	Ajaokuta		
Kogi	Irahun	Agbagbojo		
Kogi	Idah	Abujaga		
Kogi	Icheu			

	Affected Communities of AMJ Flooding in HA V			
STATE	Within 2km		Within 4km	Within 6km
Rivers	Utu	Isaka	Ibiapukiri	Abissa

Rivers	Umuoparali	Ido	Kula	Iwokiri
Rivers	Udama	Idama	Adumama	Elem Abissa
Rivers	Twoni	Ibudokubokiri	Elem Ifoko	Soku
Rivers	Sara	Ibaka	Dabibikiri	Tena
Rivers	Robertkiri	Gogokiri	Dagogokiri	
Rivers	Profitkiri	Elem Tombia	Dariama	
Rivers	Port Harcourt	Elem Krakrama	Awolakakiri	
Rivers	Owupoku	Elem Kalabari	Fenipainga	
Rivers	Owukubo	Ejekiri	Ekwilema	
Rivers	Opu Onongi	Egenegenekiri	Pokokiri	
Rivers	Oniku	Egbeboko	Orukalama	
Rivers	Omungukiri	Edi Kalama	Angulama	
Rivers	Olomaboko	Eddykiri	Ekweme Kalama	
Rivers	Old Bakana	Ebuyedokubokiri	Ninama	
Rivers	Okrika	Degema	Sangama	
Rivers	Okpo	Dannykiri	Ifoko	
Rivers	Okparakiri	Bukuma	Kalabari	
Rivers	Okoro	Buguma	Abalama	
Rivers	Okojagu	Bille	Atuka	
Rivers	Okikiri	Bakana	Diminabokiri	
Rivers	Ojiama	Arugbana	Amadi	
Rivers	Ogoloma	Amanga	Woji	
Rivers	Odugri	Akupoku	Diobu	
Rivers	Odirogo	Akri Ogidi	Rumuoparali	
Rivers	Ochokorocho	Agwe	Elechi	
Rivers	Obonoma	Abuloma	Iriebe	
Rivers	Obenibokiri	Abukiri		
Rivers	Ndoni	Abalakiri		
Rivers	Namasibi	Etibiligbologbo		
Rivers	Mingidukiri	Diepreye		
Rivers	Lelema	Okirika		
Rivers	Lelekiri	Gulakiri		
Rivers	Krakrama	Krakrama		
Rivers	Ke	Opudegema		
Rivers	Kala Tuma	Degema Hulk		
Rivers	Kala-Degema	Orogbum		
Rivers	Iwoama	Woji		
Rivers	Ishukwa	Abam Ama		

	Affected Communities of JAS Flooding in HA V			
STATE	Within 2km		Within 4km	Within 6km
Rivers	Utu	Idama	Ibiapukiri	Abissa
Rivers	Umuoparali	Ibudokubokiri	Kula	Iwokiri

Rivers	Udama	Ibaka	Adumama	Elem Abissa
Rivers	Twoni	Harrys Town	Elem Ifoko	Soku
Rivers	Tombia	Gogokiri	Dabibikiri	Tena
Rivers	Sara	Elem Tombia	Dagogokiri	Alode
Rivers	Robertkiri	Elem Krakrama	Dariama	Alese
Rivers	Profitkiri	Elem Kalabari	Awolakakiri	Ogali
Rivers	Port Harcourt	Ejekiri	Fenipainga	Aletu
Rivers	Owupoku	Egenegenekiri	Ekwilema	Agbonchia
Rivers	Owukubo	Egbeboko	Pokokiri	Oporoma
Rivers	Opu Onongi	Edi Kalama	Orukalama	Agada
Rivers	Oniku	Eddykiri	Angulama	Mgbuosimiri
Rivers	Omungukiri	Ebuyedokubokiri	Ekweme Kalama	Diobu
Rivers	Olomaboko	Degema	Ninama	Elekahia
Rivers	Old Bakana	Dannykiri	Sangama	Rumu-Olumene
Rivers	Okrika	Bukuma	Ifoko	Orowokwo-Woji
Rivers	Okpo	Buguma	Kalabari	Umueme
Rivers	Okparakiri	Bille	Abalama	Rumu-Ome
Rivers	Okoro	Bakana	Atuka	Elekohahia Diobu
Rivers	Okojagu	Arugbana	Diminabokiri	Ahiankwo
Rivers	Okikiri	Amanga	Amadi	Rurome-rezigbu
Rivers	Ojiama	Akupoku	Woji	Okporowo
Rivers	Ogonokom	Akri Ogidi	Diobu	Rumuola
Rivers	Ogoloma	Agwe	Anu	Rumu-Opirikom
Rivers	Ogbakiri	Abuloma	Nkbuodahia	Egbelu
Rivers	Odugri	Abukiri	Rumuoparali	Rumumasi
Rivers	Odirogo	Abalakiri	Elechi	Omenama
Rivers	Ochokorocho	Okpo	Iwofe	Rumechie
Rivers	Obonoma	Etibiligbologbo	Oroworokwo	Obukuru
Rivers	Obenibokiri	Diepreye	Rumukalagba	Ahai
Rivers	Ndoni	Okirika	Nkpo	Obia
Rivers	Namasibi	Gulakiri	Sama-Naguakiri	Rumurolu
Rivers	Mingidukiri	Krakrama	Oduoha	Elelenwa
Rivers	Lelema	Opudegema	Akpaji	Omokwa
Rivers	Lelekiri	Degema Hulk	Rumuokani	Akukwaterra
Rivers	Krakrama	Orogbum	Ogigba	Omoraka
Rivers	Ke	Woji	Umuoro	Agbar Ndele
Rivers	Kala Tuma	Abam Ama	Rumuwaji	
Rivers	Kala-Degema		Otaba	
Rivers	Iwoama		Orugborkiri	
Rivers	Ishukwa		Osogu	
Rivers	Isaka		Rumuafo	
Rivers	Ikukiri		Iriebe	
Rivers	Ido		Obogo	

	Affected Communities of ON Flooding in HA V			
STATE	Within 2km		Within 4km	Within 6km
Rivers	Umuoparali	Elem Tombia	Ibiapukiri	Abissa
Rivers	Udama	Elem Krakrama	Kula	Iwokiri
Rivers	Twoni	Elem Kalabari	Adumama	Elem Abissa
Rivers	Sara	Ejekiri	Elem Ifoko	Soku
Rivers	Robertkiri	Egenegenekiri	Dabibikiri	Tena
Rivers	Profitkiri	Egbeboko	Dagogokiri	
Rivers	Port Harcourt	Edi Kalama	Dariama	
Rivers	Owupoku	Eddykiri	Awolakakiri	
Rivers	Owukubo	Ebuyedokubokiri	Fenipainga	
Rivers	Opu Onongi	Degema	Ekwilema	
Rivers	Omungukiri	Dannykiri	Pokokiri	
Rivers	Olomaboko	Bukuma	Orukalama	
Rivers	Old Bakana	Buguma	Angulama	
Rivers	Okrika	Bille	Ekweme Kalama	
Rivers	Okpo	Bakana	Ninama	
Rivers	Okparakiri	Arugbana	Sangama	
Rivers	Okoro	Amanga	Ifoko	
Rivers	Okojagu	Akupoku	Kalabari	
Rivers	Okikiri	Abuloma	Abalama	
Rivers	Ojiama	Abukiri	Atuka	
Rivers	Ogoloma	Abalakiri	Diminabokiri	
Rivers	Odirogo	Etibiligbologbo	Amadi	
Rivers	Ochokorocho	Diepreye	Woji	
Rivers	Obonoma	Okirika	Diobu	
Rivers	Obenibokiri	Gulakiri	Rumuoparali	
Rivers	Namasibi	Krakrama	Elechi	
Rivers	Mingidukiri	Opudegema		
Rivers	Lelema	Degema Hulk		
Rivers	Lelekiri	Orogbum		
Rivers	Krakrama	Woji		
Rivers	Ke	Abam Ama		
Rivers	Kala Tuma			
Rivers	Kala-Degema			
Rivers	Iwoama			
Rivers	Isaka			
Rivers	Ido			
Rivers	Idama			
Rivers	Ibudokubokiri			
Rivers	Ibaka			
Rivers	Gogokiri			

	Affected Communities of AMI Flooding in HA VI			
STATE	Within 2km		Within 4km	Within 6km
Delta	Young Town	Katun	Amasuoma	Otutuama
Delta	Utonbaterentie	Jakpa	Oyangbene	Otugbo
Delta	Utogbo	Ijelejele	Odimodi	Isaba
Delta	Ugbomaja	Gbokoda	Obotebe	Ode Itsekiri
Delta	Ugbogbudu	Gbekebor	Otegbo	Ugbo Wunagweh
Delta	Ubefan	Eke	Warri	Ogunu
Delta	Tisun	Egbo Ide	Benikrukru	Ifie
Delta	Ovorigbala	Egbo Ide	Kolokolo	Ugbokodo
Delta	Opuraja	Egbo	Urejusisin	Ajatitor
Delta	Old Nana Town	Ebrohimi	Tebu	Ughotor
Delta	Ogidigben	Deli	Bear Town	Ajakotie
Delta	Oghrerhe	Bresibi	Ajamogha	Tobor
Delta	Ofogbene	Ayakoromo		Doro
Delta	Obodo	Atsuran		Ewoye
Delta	Lodu Imenyi	Aronwon		Odibuba
Delta	Kurukunama	Ajatiton		
Delta	Kurukunama	Ajaoluna		
Delta	Koko	Ajamangoro		

	Affected Communities of JAS Flooding in HA VI			
STATE	Within 2km		Within 4km	Within 6km
Delta	Young Town	Egbo	Amasuoma	Otutuama
Delta	Utonbaterentie	Egbeku	Oyangbene	Otugbo
Delta	Utogbo	Ebrohimi	Odimodi	Isaba
Delta	Urhono	Ebiotumere	Obotebe	Ode Itsekiri
Delta	Ululu	Ebada	Otegbo	Ugbo Wunagweh
Delta	Ukan IMarket	Deli	Asagba	Ogunu
Delta	Ugbomaja	Bresibi	Asagba	Ifie
Delta	Ugbogbudu	Ayakoromo	Ekete	Odi
Delta	Ubefan	Atsuran	Warri	Ekrerhavbe
Delta	Tisun	Asamagidi	Effurun	Ugbokodo
Delta	Ovorigbala	Asagba	Orhokpokpor	Ajatitor
Delta	Otokutu	Aronwon	Ovwori	Oguname
Delta	Orho Agbarho	Anibon	Ugwagbagare	Ughotor
Delta	Orerokpe	Ajatiton	Oha	Okughurhe
Delta	Opuraja	Ajaoluna	Benikrukru	Odjedi

Delta	Opete	Ajamangoro	Okurekpo	Adagbrassa
Delta	Old Nana Town	Ajaguayibo	Ebruvwa	Ovu Inland
Delta	Okurogba	Aghalokpe	Oviriokpe	Okunoh
Delta	Ogidigben	Adagbarassa	Okuobadjere	Okuloho
Delta	Oghrerhe	Adagbarassa	Okuegba	Emaka
Delta	Ogegere		Kolokolo	Oviorie
Delta	Ofori		Oyohe	Okuboafe
Delta	Ofogbene		Urejusisin	Urhodo
Delta	Obodo		Ikwewu	Okuetolor
Delta	Lodu Imenyi		Agboramo	Ukpe Sobo
Delta	Kurukunama		Tebu	Okuogholo
Delta	Koko		Jesse	Ebada
Delta	Katun		Abigborudu	Oriah
Delta	Jakpa		Gbokoko	Eku
Delta	Ikwewu		Bear Town	Okuovwori
Delta	Ijelejele		Dudu Town	Oviri
Delta	Gbokoda		Bakama	Amukpe
Delta	Gbekebor		Ogbombiri	Ajakotie
Delta	Enerhe		Ajamogha	Igoyo
Delta	Eko		Kolokolo	Utonyatsere
Delta	Eke		Ajoki	Elume
Delta	Ejuavekpimi			Warifi
Delta	Ejeba			Tobor
Delta	Ehwerhe			Doro
Delta	Egbo Ide			Ewoye
Delta	Egbo Ide			Odibuba

	Affected Communities of JAS Flooding in HA VI			
STATE	Within 2km		Within 4km	Within 6km
Delta	Young Town	Jakpa	Oyangbene	Ajakotie
Delta	Utonbaterentie	Ijelejele	Odimodi	Tobor
Delta	Utogbo	Gbokoda	Obotebe	Doro
Delta	Ugbomaja	Gbekebor	Benikrukru	Ewoye
Delta	Ugbogbudu	Eke	Kolokolo	Odibuba
Delta	Ubefan	Ebrohimi	Urejusisin	
Delta	Tisun	Deli	Tebu	
Delta	Ovorigbala	Bresibi	Bear Town	
Delta	Opuraja	Ayakoromo	Ajamogha	
Delta	Old Nana Town	Atsuran		
Delta	Ogidigben	Aronwon		
Delta	Ofogbene	Ajatiton		
Delta	Kurukunama	Ajaoluna		
Delta	Koko	Ajamangoro		
Delta	Katun			

	Affected Communities of ON Flooding in HA VI		
STATE	Within 2km	Within 4km	Within 6km
Edo	Obajere	Korobapele	Abiala
Edo	Igun Waterside	Binidodogha	Abiala

	Affected Communities of AMJ Flooding in HA VI			
STATE	Within 2km		Within 4km	Within 6km
Lagos	Yaba	Igboshere	Agerige	Mosere Ikoga
Lagos	Topo	Igbo Fipe	Wesere	Iwerekun
Lagos	Tofa	Igboefon	Ropoji	Mowo
Lagos	Seje	Igbo	Igbogbele	Age Mowo
Lagos	Sangotedo	Idiori	Angorin	Ajibade
Lagos	Panko	Ibiku	Alaguntan	Eluju
Lagos	Oyewo	Ibereko	Itoga	Coker
Lagos	Oworonsoki	Ibeju	Mosafejo	Ipota
Lagos	Oto	Iba	Aradagun	Ale
Lagos	Oruba	Henume	Ilado	
Lagos	Oroke	Gbogije	Imeke	
Lagos	Oreta	Gbanko	Dankaka	
Lagos	Onike	Gbaji	Maiyegun	
Lagos	Okunegun	Ganyingbo	Mopo Onijebu	
Lagos	Oke Ogbe	Falomo	Idaso	
Lagos	Ojogun	Erunkan	Imeke	
Lagos	Oguntedo	Epe	Lakowe	
Lagos	Ogungbe	Eleputu	Aiyeteju	
Lagos	Ogudu	Efiran	Magbon	
Lagos	Ogombo	Ebute-Metta	Alagbede	
Lagos	Ogogoro	Doforo	Iranla	
Lagos	Ogogoro	Bariga	Oregun	
Lagos	Odogun	Bamgbose	Oko Abe	
Lagos	Mopo Akinlade	Baiyeku	Iganmu	
Lagos	Moba	Badagry	Igborosun	
Lagos	Moba	Awoyaya	Tinubu	
Lagos	Mekunwen	Araromi Tope	Igbobi	
Lagos	Maroko	Araromi	Ajegbenwa	
Lagos	Makoko	Arapagi Oloko	Shomolu	
Lagos	Magbon	Apese	Maryland	
Lagos	Lekki	Apapa Eleko	Ojota	
Lagos	Lawani Oguntayo	Apapa	Ososun	
Lagos	Langbasa	Apa	Eregun	
Lagos	Lagos	Aliayabiagba	Sagisa	

Lagos	Kese	Alasia		
Lagos	Iyafin	Akere		
Lagos	Iworo	Akarakumo		
Lagos	Itohun	Ajido		
Lagos	Itirin	Ajibo		
Lagos	Isalu	Ajebo		
Lagos	Isalu	Ajara		
Lagos	Iru	Aja		
Lagos	Iragon	Ahanfe		
Lagos	Iragbo	Ago Hausa		
Lagos	Ipewu	Agala		
Lagos	Ilikiti	Addo		
Lagos	Ilado	Abegede		
Lagos	Ikuata	Ogoyo		
Lagos	Ikuata	Ilemere		
Lagos	Ikoyi	Onisigun		
Lagos	Ikate	Olowoira		
Lagos	Ijora Village	Magodo		
Lagos	Ijora	Tarkwa Bay		
Lagos	Ijede	Iddo		
Lagos	Igoro	Egbin		

	Affected Communities of JAS Flooding in HA VI			
STATE	Within 2km		Within 4km	Within 6km
Lagos	Yaba	Ikoyi	Agerige	Mosere Ikoga
Lagos	Topo	Ikosi	Wesere	Iwerekun
Lagos	Tofa	Ikate	Ropoji	Mowo
Lagos	Tewon	Ikare	Igbogbele	Age Mowo
Lagos	Tafi	Ijora Village	Angorin	Ajibade
Lagos	Shala	Ijora	Alaguntan	Olute
Lagos	Seje	Ijede	Itoga	Agboju
Lagos	Seidu	Igoro	Mosafejo	Eluju
Lagos	Sangotedo	Igboshere	Aradagun	Amuwo
Lagos	Panko	Igbologun	Ilado	Coker
Lagos	Oyewo	Igbolobi	Imeke	Ipota
Lagos	Oworonsoki	Igbogun	Isagira	Ale
Lagos	Oto	Igbo Fipe	Dankaka	Osho
Lagos	Oto	Igboefon	Maiyegun	Isasi
Lagos	Orugba	Igbo	Mopo Onijebu	Akangba
Lagos	Oruba	Igbede	Idaso	Itire
Lagos	Oroke	Igbalu	Isunba	Suru Lere
Lagos	Orita	Idomu	Alapako	Obele
Lagos	Oriba	Idiori	Imeke	Idi Oro

Lagos	Oreta	Ide	Egan	Mushin
Lagos	Orepete	Ibon	Etegbin	Agidi
Lagos	Onike	Ibode	Aiyetoto-Asogun	Oshodi
Lagos	Onigbokun	Ibiku	Okokomaiko	Ikeja
Lagos	Omu	Ibese	Lakowe	Oke Eletu
Lagos	Ologogoro	Ibese	Aiyeteju	Ginti
Lagos	Ologode	Ibereko	Magbon	Igbopa
Lagos	Okunegun	Ibeju	Animshaun	Gberegbe
Lagos	Oke Ogbe	Ibasa	Agani	Gbagidan
Lagos	Ojogun	Iba	Alagbede	Poka
Lagos	Ojo	Henume	Iranla	Odo Mola
Lagos	Ojagemo	Gbogije	Oregun	Agege
Lagos	Oguntedo	Gbanko	Oko Abe	Coker
Lagos	Ogungbe	Gbaji	Iganmu	Ifako
Lagos	Ogudu	Ganyingbo	Igborosun	Itoikin
Lagos	Ogombo	Fawosedi	Ijanikin	Iju Junction
Lagos	Ogogoro	Falomo	Tinubu	Otta
Lagos	Ogogoro	Ewu Ebi	Igbobi	Agbele
Lagos	Ofin	Erunkan	Ajegbenwa	Odo
Lagos	Odogun	Era	Araromi	
Lagos	Ode Omi	Epe	Sabi	
Lagos	Moyopa	Epe	Shomolu	
Lagos	Mopo Akinlade	Emina	Ason	
Lagos	Moba	Eleputu	Ilado Ogunu	
Lagos	Moba	Ejirin	Agunfoye	
Lagos	Moba	Efiran	Maryland	
Lagos	Mekunwen	Ebute-Metta	Gbogbo	
Lagos	Meki	Ebute Lekki	Igbe Ewoliwo	
Lagos	Maroko	Ebute Ikorodu	Oke Oloku	
Lagos	Makoko	Doforo	Ojota	
Lagos	Majidun Ilaje	Bariga	Oke Lisa	
Lagos	Magbon	Bamgbose	Oke Agba	
Lagos	Lekki	Baiyeku	Iwaye	
Lagos	Lawani Oguntayo	Badore	Ososun	
Lagos	Langbasa	Badagry	Eregun	
Lagos	Lamija	Awoyaya	Hausa	
Lagos	Lagos	Araromi Tope	Sagisa	
Lagos	Ladega	Araromi	Oko Ito	
Lagos	Ladeba	Arapagi Oloko	Gbokuta	
Lagos	Ladeba	Apese	Ikorodu	
Lagos	Kese	Apapa Eleko	Agidingbi	
Lagos	Jaguna	Apapa	George	
Lagos	Iyagbe	Apa	Ijaiye	
Lagos	Iyafin	Aliayabiagba	Ado	
Lagos	Iworo	Alasia	Oke Odo	

Lagos	Iwopin	Akere	Ajebo	
Lagos	Ito Omu	Akarakumo	Sekungba	
Lagos	Itohun	Ajido	Ketu	
Lagos	Itirin	Ajibo	Igbodu	
Lagos	Ise	Ajebo	Aguda	
Lagos	Isalu	Ajara	Omole	
Lagos	Isalu	Aja	Agbowa	
Lagos	Iru	Ahanfe	Imeseju	
Lagos	Irewe	Agura		
Lagos	Irede	Agomu		
Lagos	Iragon	Ago Hausa		
Lagos	Iragbo	Agala		
Lagos	Ipewu	Addo		
Lagos	Ipesu	Abegede		
Lagos	Ipakan	Okun-Ibese		
Lagos	Inogbe	Ogoyo		
Lagos	Imoru	Kirikiri		
Lagos	Imore	Ilemere		
Lagos	Imare	Osorun		
Lagos	Ilumofin	Isasi		
Lagos	Ilogbo Elegba	Onisigun		
Lagos	Ilikiti	Olowoira		
Lagos	Ilasa	Magodo		
Lagos	Ilagbo	Tarkwa Bay		
Lagos	Ilado	Iddo		
Lagos	Ikuata	Ipanmi		
Lagos	Ikuata	Egbin		

	Affected Communities of ON Flooding in HA VI			
STATE	Within 2km		Within 4km	Within 6km
Lagos	Topo	Igoro	Agerige	Mosere Ikoga
Lagos	Tofa	Igboshere	Wesere	Iwerekun
Lagos	Tafi	Igbologun	Ropoji	Mowo
Lagos	Seje	Igbolobi	Igbogbele	Age Mowo
Lagos	Sangotedo	Igbo Fipe	Angorin	Ajibade
Lagos	Panko	Igboefon	Alaguntan	Olute
Lagos	Oyewo	Igbo	Itoga	Agboju
Lagos	Oworonsoki	Igbede	Mosafejo	Eluju
Lagos	Oto	Idiori	Aradagun	Amuwo
Lagos	Oroke	Ibode	Ilado	Coker
Lagos	Oreta	Ibiku	Imeke	Ipota
Lagos	Onigbokun	Ibese	Isagira	Ale
Lagos	Okunegun	Ibereko	Dankaka	Isasi

Lagos	Oke Ogbe	Ibeju	Maiyegun	
Lagos	Ojogun	Ibasa	Mopo Onijebu	
Lagos	Ojo	Iba	Idaso	
Lagos	Oguntedo	Henume	Isunba	
Lagos	Ogungbe	Gbogije	Alapako	
Lagos	Ogudu	Gbanko	Imeke	
Lagos	Ogombo	Gbaji	Egan	
Lagos	Ogogoro	Ganyingbo	Etegbin	
Lagos	Ogogoro	Falomo	Aiyetoto-Asogun	
Lagos	Mopo Akinlade	Era	Okokomaiko	
Lagos	Moba	Epe	Lakowe	
Lagos	Moba	Eleputu	Aiyeteju	
Lagos	Moba	Efiran	Magbon	
Lagos	Mekunwen	Doforo	Iranla	
Lagos	Maroko	Bariga	Oregun	
Lagos	Makoko	Bamgbose	Oko Abe	
Lagos	Magbon	Baiyeku	Igborosun	
Lagos	Lekki	Badagry	Ijanikin	
Lagos	Lawani Oguntayo	Awoyaya	Ajegbenwa	
Lagos	Langbasa	Araromi Tope		
Lagos	Lagos	Araromi		
Lagos	Kese	Arapagi Oloko		
Lagos	Iyagbe	Apese		
Lagos	Iyafin	Apapa Eleko		
Lagos	Iworo	Apapa		
Lagos	Itohun	Apa		
Lagos	Itirin	Aliayabiagba		
Lagos	Isalu	Alasia		
Lagos	Isalu	Akere		
Lagos	Iru	Akarakumo		
Lagos	Irewe	Ajido		
Lagos	Irede	Ajibo		
Lagos	Iragon	Ajebo		
Lagos	Iragbo	Ajara		
Lagos	Ipewu	Aja		
Lagos	Inogbe	Ahanfe		
Lagos	Imore	Agomu		
Lagos	Ilogbo Elegba	Ago Hausa		
Lagos	Ilikiti	Agala		
Lagos	Ilasa	Addo		
Lagos	Ilado	Abegede		
Lagos	Ikuata	Okun-Ibese		
Lagos	Ikuata	Ogoyo		
Lagos	Ikoyi	Kirikiri		

Lagos	Ikate	Ilemere		
Lagos	Ikare	Tarkwa Bay		
Lagos	Ijora Village	Iddo		
Lagos	Ijora	Egbin		
Lagos	Ijede			

	Affected Communities of AMJ Flooding in HA VI			
STATE	Within 2km		Within 4km	Within 6km
Ogun	Seriki	Ehin Osa	Araromi Oke	Araromi Odo
Ogun	Sapale	Ebute Oni	Soke	Itebu Manuwa
Ogun	Sanusi	Budo	More	Abigi
Ogun	Sabo	Bode Olude	Fonji	Efire
Ogun	Rodeye	Banimgbo	Igbosa	Ilogbo
Ogun	Pala	Balogun Tapa	Ibbojo	Ikoga
Ogun	Otegbade	Balogun Molete	Igaolu	Idain Isaga
Ogun	Opeji	Balogun	Magbon	Eruku
Ogun	Onigbaguda	Atijere	Kuto	Eka
Ogun	Onigangan	Asipa	Baaki	Idigba Okeata
Ogun	Oni	Arikola	Igbo Olodumare	Akewe
Ogun	Omitogun	Arikola	Lukosi	Akingbala
Ogun	Oloko	Areta	Baase	Iyawose
Ogun	Olokemeji	Areatan	Gbegbinlawo	Ijaiye
Ogun	Olanbiwonnu	Apa	Agbagi	Epo
Ogun	Oke	Amoje	Tigba	Asasi
Ogun	Oka	Alo	Oloro	Idiya
Ogun	Odo Owe	Alatan	Ijaiye	Sokenu
Ogun	Molete	Alajogun	Malakun	Abati
Ogun	Mogaji	Akingbolu	Onidundun	Fadage
Ogun	Mawuko	Akeye	Ajitadun	Apete
Ogun	Makun	Ake	Adana	Ikereku Olodi
Ogun	Majape	Ajumo	Lebute	Baselu
Ogun	Lisa	Ajero	Elajo	Asebe
Ogun	Lisa	Agbenigbale	Elebute	Sotan
Ogun	Lawan	Agabe	Ilawo	Abbawusi
Ogun	Kere	Adede	Balage	Imala
Ogun	Kelegbe	Adebori	Arosa	Oseko
Ogun	Kajola	Abidogun	Ijaiye Oke	Arogbo
Ogun	Kafara	Abeokuta	Ijaiye Isale	Ijeun
Ogun	Jokodolu		Sotayo	Ofo Ape
Ogun	Jagunode		Molomo	Obete
Ogun	Iwofin		Onisemo	Elesin
Ogun	Itere		Atan	Aworo
Ogun	Iseri		Agodo	Ariwo

Ogun	Isekun		Abidogun	Aiyeleso
Ogun	Irokun		Alatibaba	Gbopaehin
Ogun	Imala		Ogunlola	Akintunde
Ogun	Igbo Edun		Banigbe	Aremu
Ogun	Idi Emi		Adigun	Alagbede
Ogun	Iboro Akute		Araromi	Akala
Ogun	Ibawe Kekere		Olajogun	Eletu
Ogun	Hundo		Jaguna	Omileye
Ogun	Godogbo		Alape	Abioro
Ogun	Gbotikale		Alufa	Adisa
Ogun	Fapote		Ekerin	Ajagbe
Ogun	Elelede		Elegbada	
Ogun	Elegun Nla		Awaye	

	Affected Communities of JAS Flooding in HA VI			
STATE	Within 2km		Within 4km	Within 6km
Ogun	Togunberu	Ajero	Araromi Oke	Araromi Odo
Ogun	Todu	Ajegunle	Soke	Itebu Manuwa
Ogun	Tepona	Ajabata	More	Abigi
Ogun	Seriki	Agbenigbale	Fonji	Efire
Ogun	Sare	Agabe	Igbosa	Ilogbo
Ogun	Sapale	Adede	Ibbojo	Ikoga
Ogun	Sanusi	Adebori	Agbara	Idain Isaga
Ogun	Sabo	Abidogun	Itasin	Iteku
Ogun	Rodeye	Abeokuta	Oki Gbode	Tidenuren
Ogun	Pala	Lambe	Oko Makun	Itapanpa
Ogun	Owere	Olori	Bale Akiosi	Tapa
Ogun	Otungade		Adiyan	Iju
Ogun	Otun		Okenla	Isaga-Abosule
Ogun	Otegbade		Magboro-Akeran	Oke-Aro
Ogun	Oshun Budepo		Ijoko Lemode	Alagbado
Ogun	Orudu		Ogbere	Opeilu
Ogun	Origele		Ikija	Oluwo
Ogun	Opeji		Ajangboju	Itoki
Ogun	Onigbaguda		Layemi	Magboro
Ogun	Onigangan		Alapandi	Oba
Ogun	Onibudo		Kara Ewumi	Orogbe
Ogun	Oni		Kara Aragbada	Itele
Ogun	Omitogun		Lukosi	Oyero
Ogun	Oluwo Ibaragun		Eleworo	Erinmerunmu
Ogun	Oloko		Isoku	Pakuro
Ogun	Oloki		Kososi	Ogunrin Eletu
Ogun	Olokemeji		Oduro	Iyedi Balogun

Ogun	Olanbiwonnu		Lemo	Isola
Ogun	Okepa		Oluwo	Jaguna
Ogun	Oke		Ajegunle	Abaren
Ogun	Oka		Ogbere	Ogunmola Oke
Ogun	Odo Owe		Kemo	Elegbata
Ogun	Oba Imala		Igbo Ololu	Imomo
Ogun	Oba		Italiwo	Idode
Ogun	Oba		Ikereku	Akeroro
Ogun	Mosinmi		Ijumo Ologboni	Ododeyo
Ogun	Molete		Labawo	Afojupa Agbore
Ogun	Mokoloki		Kajola	Imewuro
Ogun	Mogaji		Igbo Olodo	Orogbo Lamodi
Ogun	Mawuko		Gbolola	Baase
Ogun	Mawere		Teseyin	Afojupa
Ogun	Makun		Orokuta	Afowowa
Ogun	Majape		Erin	Awado
Ogun	Magbon		Iwokunla	Oke Ogun
Ogun	Luwako		Okiri	Adegboye
Ogun	Lusabe		Agirigi	Ope
Ogun	Lisa		Adogo	Lambo
Ogun	Lisa		Papa Bale	Lufoko
Ogun	Legun		Olotu	Ipakodo
Ogun	Lawan		Obada	Abeku
Ogun	Kere		Tomoloju	Alobaloke
Ogun	Kelegbe		Gbokutaru	Eruku
Ogun	Kajola		Ajebamidele	Oke Mosan
Ogun	Kafara		Ogunsolu	Apena
Ogun	Jokodolu		Agbon	Dagbolu
Ogun	Jagunode		Ogedengbe	Babajebu
Ogun	Iwofin		Idiori	Eka
Ogun	Itere		Akekonigbe	Oye
Ogun	Iseri		Sogeke	Idigba Okeata
Ogun	Isekun		Ojere	Akewe
Ogun	Irokun		Alapinni	Akingbala
Ogun	Iro		Ajede Balogun	Iyawose
Ogun	Imobi		Igaolu	Ijaiye
Ogun	Imala		Magbon	Epo
Ogun	Ilate		Kuto	Asasi
Ogun	Ikija		Fajoye	Idiya
Ogun	Ijapo		Daramola	Sokenu
Ogun	Igbo Edun		Alagutan	Abati
Ogun	Igaun		Baaki	Fadage
Ogun	Idi Emi		Igbo Olodumare	Apete
Ogun	Iboro Akute		Lukosi	Ikereku Olodi
Ogun	Ibawe Kekere		Baase	Baselu

Ogun	Hundo		Gbegbinlawo	Asebe
Ogun	Godogbo		Agbagi	Sotan
Ogun	Gbotikale		Tigba	Abbawusi
Ogun	Gbokutaru Sewu		Oloro	Imala
Ogun	Gbogun		Ijaiye	Oseko
Ogun	Fapote		Malakun	Arogbo
Ogun	Eyin Eregu		Onidundun	Ijeun
Ogun	Erigboro		Ajitadun	Ofo Ape
Ogun	Elelede		Adana	Obete
Ogun	Elegun Nla		Lebute	Elesin
Ogun	Ehin Osa		Elajo	Aworo
Ogun	Ebute Oni		Elebute	Ariwo
Ogun	Dandola		Ilawo	Aiyeleso
Ogun	Budo		Balage	Gbopaehin
Ogun	Bode Olude		Arosa	Akintunde
Ogun	Banimgbo		Ijaiye Oke	Aremu
Ogun	Balogun Tapa		Ijaiye Isale	Alagbede
Ogun	Balogun Molete		Sotayo	Akala
Ogun	Balogun		Molomo	Eletu
Ogun	Atogun		Jaguna	Omileye
Ogun	Atijere		Onisemo	Oja Ituko
Ogun	Asipa		Atan	Ogun Oke
Ogun	Asa		Sokunbi	Ola
Ogun	Arikola		Agodo	Abioro
Ogun	Arikola		Abidogun	Adisa
Ogun	Areta		Alatibaba	Ajagbe
Ogun	Areatan		Ogunlola	
Ogun	Apoje Orile		Banigbe	
Ogun	Apa		Adigun	
Ogun	Amoje		Ilakan	
Ogun	Alo		Araromi	
Ogun	Alatan		Olajogun	
Ogun	Alakuko		Jaguna	
Ogun	Alajogun		Alape	
Ogun	Akingbolu		Alufa	
Ogun	Akeye		Ekerin	
Ogun	Ake		Elegbada	
Ogun	Ajumo		Awaye	

	Affected Communities of ON Flooding in HA VI		
STATE	Within 2km	Within 4km	Within 6km
Ogun	Oni	Araromi Oke	Araromi Odo

Ogun	Oka	Soke	Itebu Manuwa
Ogun	Makun	More	Abigi
Ogun	Kafara	Fonji	Efire
Ogun	Itere	Igbosa	Ilogbo
Ogun	Isekun	Ibbojo	Ikoga
Ogun	Irokun	Agbara	Idain Isaga
Ogun	Igbo Edun		Iteku
Ogun	Ibawe Kekere		
Ogun	Hundo		
Ogun	Ehin Osa		
Ogun	Ebute Oni		
Ogun	Budo		
Ogun	Banimgbo		
Ogun	Atijere		
Ogun	Alo		
Ogun	Ajumo		

	Affected Communities of AMJ Flooding in HA VI		
STATE	Within 2km	Within 4km	Within 6km
Ondo	Orokiti	Obo	Tsekelewu
Ondo	Olomidudu	Awoye	Ugbonla
Ondo	Mofetokun	Ugbo	Oroyo Oke
Ondo	Mahin	Legha	Ilegboro
Ondo	Itedo	Kurawe	Etikan
Ondo	Ipare	Ago Iba	Pakindeje
Ondo	Ebute Ero	Ebute Ipare	Kesumeta
Ondo	Eba	Olopo	Ogogoro
Ondo	Akata	Owode Tomoloju	Orere Ara
Ondo	Ago Najo	Orofin	
Ondo	Agerige		
Ondo	Agbala		

	Affected Communities of JAS Flooding in HA VI		
STATE	Within 2km	Within 4km	Within 6km
Ondo	Orokiti	Obo	Tsekelewu
Ondo	Olomidudu	Awoye	Ugbonla
Ondo	Mofetokun	Ugbo	Oroyo Oke
Ondo	Mahin	Legha	Ilegboro
Ondo	Itedo	Kurawe	Etikan
Ondo	Ipare	Ago Iba	Pakindeje
Ondo	Ebute Ero	Ebute Ipare	Kesumeta
Ondo	Eba	Olopo	Ogogoro

Ondo	Akata	Owode Tomoloju	Orere Ara
Ondo	Ago Najo	Orofin	
Ondo	Agerige		
Ondo	Agbala		

	Affected Communities of ON Flooding in HA VI		
STATE	Within 2km	Within 4km	Within 6km
Ondo	Orokiti	Obo	Tsekelewu
Ondo	Olomidudu	Awoye	Ugbonla
Ondo	Mofetokun	Ugbo	Oroyo Oke
Ondo	Mahin	Legha	Ilegboro
Ondo	Itedo	Kurawe	Etikan
Ondo	Ipare	Ago Iba	Pakindeje
Ondo	Ebute Ero	Ebute Ipare	Kesumeta
Ondo	Eba	Olopo	Ogogoro
Ondo	Akata	Owode Tomoloju	Orere Ara
Ondo	Ago Najo	Orofin	
Ondo	Agerige		
Ondo	Agbala		

	Affected Communities of AMJ Flooding in HA VI		
STATE	Within 2km	Within 4km	Within 6km
Osun	Wasimi	Ileran	Abanikanda
Osun	Oro	Ajigbala	Dalema
Osun	Olota	Oloro	
Osun	Odo Oba	Elesin	
Osun	Obiyelu	Akinbami	
Osun	Oba	Obojona	
Osun	Igbotente	Aje	
Osun	Fiowo	Pere	
Osun	Elefun	Balogun	
Osun	Baoke	Ada	
Osun	Bakile	Adenlere	
Osun	Babalawo	Ile Igbo Station	
Osun	Arogundade	Kejo	
Osun	Aba Oba		

	Affected Communities of JAS Flooding in HA VI		
STATE	Within 2km	Within 4km	Within 6km

Osun	Wasimi	Dabongbo	Oguntedo
Osun	Sare	Okodowo	Laderu
Osun	Papa	Egbeda Oko	Lagbaja
Osun	Oyo	Oloro	Balogun Apomu
Osun	Oshogbo	Arinkinkin	Woye
Osun	Oro	Olode Ayope	Alaso Osun
Osun	Ore	Onikete Timi	Oranran Market
Osun	Oran	Mowo Oba	Teacher
Osun	Onikete Belo	Gbegunde	Mahun
Osun	Onigbongbo	Ejemu Oran	Osa
Osun	Olumelo	Bodude	Mugo
Osun	Olota	Osoko	Afolu Ibadan
Osun	Olota	Ikoyi	Mowo
Osun	Oloro	Aiyegun Nla	Laderu
Osun	Olokuta	Papa	Awala
Osun	Oke Oran	Osunlepo	Ologbin
Osun	Ofatedo	Olode	Belo Akumara
Osun	Odo Oba	Panu	Lasegba
Osun	Obiyelu	Lokoro	Asunnara
Osun	Obisesan	Kanbi	Adabiaran
Osun	Oba	Ileran	Apomu
Osun	Majekosun	Ajigbala	Ikire
Osun	Lagunju	Oloro	Ologun
Osun	Lagbaka	Elesin	Aboba
Osun	Iregun	Akinbami	Neye
Osun	Iponda	Obojona	Abanikanda
Osun	Inisa	Aje	Dalema
Osun	Ilobu	Pere	Owode
Osun	Ileko	Balogun	Bale
Osun	Ijabe	Ada	Atore
Osun	Igbotente	Elekiri	Asipa
Osun	Ido Oshun	Elekiri	Oniwe
Osun	Idominasi	Adenlere	Alaya
Osun	Idoko	Lasole	Ile Igbo
Osun	Fiowo	Olupona	Iwo
Osun	Esa Odo	Ile Igbo Station	Awofeke
Osun	Erin	Tikun	Adegbodu
Osun	Elewonta	Aba Oba	Ikoyi
Osun	Elesun	Akaje	Odomu
Osun	Elefun	Kejo	Asuman
Osun	Eko Onde	Araromi	Apinrin
Osun	Eko Ajala	Akinbode	Agbangudu
Osun	Egbedi	Ilesa	Ijaregbe
Osun	Ede Station	Onisa	Origo
Osun	Ede	Isaobi	Motunini

Osun	Dada	Iyalode	Ekuro
Osun	Baoke	Lakotan	Olota
Osun	Bakile	Alakowe	Isero
Osun	Babalawo	Ila	Obamoro
Osun	Awise	Oke Ibode	Iwoye
Osun	Arogundade	Ibala	Isero
Osun	Araromi Balogun	Idoo	Awo
Osun	Amukoko	Aba Adi	Abule Iya Agba
Osun	Alapata	Ere	Ilare
Osun	Alamo	Ilase	Ojo
Osun	Akinbola	Esa Oke	Komini
Osun	Ajeninsua	Iloba	Iseki
Osun	Aje	Egbedi	Ogunleye
Osun	Adubiaran	Aro	Ikirun
Osun	Aba Oba	Okinni	Taiye
Osun		Ifon	Dumuye
Osun		Esa	Agbeye
Osun		Oba	Igbaye
Osun		Ipomu	Asi
Osun		Gbena	
Osun		Bashorun	
Osun		Iba	
Osun		Ekusa	
Osun		Oyan	

	Affected Communities of AMJ Flooding in HA VI		
STATE	Within 2km	Within 4km	Within 6km
Oyo	Oluwo	Onileowo	Nil
Oyo	Olokuta	Ijade	Nil
Oyo	Odeote	Apena Aka	Nil
Oyo	Jagun	Aba Oje	Nil
Oyo	Iyano Eruwa		Nil
Oyo	Awayetitun		Nil
Oyo	Adeto		Nil

	Affected Communities of JAS Flooding in HA VI				
STATE	Within 2km	Within 4km		Within 6km	
Oyo	Yakoyo	Sore	Samson	Oyejobi	Arowomole
Oyo	Tapa	Lana Egun	Ado Awaiye	Olugbuyi	Ogungbe Market
Oyo	Sola	Amurire	Apata	Ricket	Aba Titun

Oyo	Senke	Obideyi	Oha	Araromi Aperin	Olode
Oyo	Sangode	Afolabi	Egbebi	Igikola	Mosafejo
Oyo	Pakua	Aba Ogo	Olode	Apapa	Olola
Oyo	Pabiku	Balogun	Baba Isale	Amodu	Oke Oge
Oyo	Owombe	Alaje	Afonja	Olowe	Oke Esa
Oyo	Orati	Olorisade	Ireso	Kate	Abule Ojo
Oyo	Oniwafin Tapa	Ibijuwon	Odo Ogun	Jigan	Olugbade
Oyo	Oniduagbon	Fawande	Arowomole	Lapanpa	Ahere Oloke
Oyo	Oluwo	Fada	Olomo	Eripa	Aroje
Oyo	Olurin	Onilu	Ilie	Ajao	Elewure Iju
Oyo	Olukola	Gbangba	Elegede	Bale	Agunyansuneja
Oyo	Olori Eru	Awise	Taku Oyo	Akinlade	Okeigbagbo Ipapo
Oyo	Olokuta	Laduntan	Odunaro	Wonu	Oke Amu
Oyo	Ologongo	Laburo	Lemomu	Adigun	Ipapo
Oyo	Olofin	Ogunbunmi	Odeleye	Adigun	Ago Fulani
Oyo	Olode	Bamisinde	Otu	Gbada Efon	Itagbe
Oyo	Oloba	Okikiade	Abule Odo	Elepo	Okaka
Oyo	Oloba	Elebonla	Ago	Agbo	Okose
Oyo	Okedu	Bioku		Olode	Akan
Oyo	Okedare	Agbo		Arinokuta	Babapupa
Oyo	Oguro	Onileowo		Oke Ogun	
Oyo	Odo Ogun	Ijade		Akamo	
Oyo	Odo Oba	Apena Aka		Badeku	
Oyo	Odeote	Olofa		Nikun	
Oyo	Kupalo	Balogun Eniaiyewu		Mosafejo	
Oyo	Kiyeseni	Oderinale		Awowo	
Oyo	Jagun	Agunlodo		Awaiye	
Oyo	Jago	Seriki		Alufa	
Oyo	Iyano Eruwa	Akinwunmi		Itimale	
Oyo	Ituko	Oke Osu		Owobale	
Oyo	Iserin	Jagunode		Igbo Ora	
Oyo	Isajin Oyindola	Osegere		Aiyegbeyo	
Oyo	Imotan	Emanuel Elemu		Salami	
Oyo	Igbokandi	Oke Olola		Aiyede	
Oyo	Igbero	Otun		Ofiki Ope	
Oyo	Idise	Idogun		Oloronbo	
Oyo	Idere	Adeyadi		Oyebode	
Oyo	Fayomi	Babarinde		Ile Igbon	
Oyo	Esinjowo	Arigbajo		Akinsawe	
Oyo	Erinmi	Iyabo		Adeagbo	
Oyo	Eletu	Alaba		Alaja	
Oyo	Elerin	Ajiwogbo		Sukuru	

Oyo	Ekeje	Adegoke		Ajana Igbo Ora	
Oyo	Ebo	Abeta		Offa Igbo	
Oyo	Dokun	Gidi Gidi		Adedokun	
Oyo	Dagi	Aba Oje		Tobalogo	
Oyo	Budo Ago	Afefu		Obatade	
Oyo	Balogun	Oko		Adenrele	
Oyo	Balogun	Balogun		Olukotun Idere	
Oyo	Bale	Abudu		Idi Esu	
Oyo	Baba Sango	Aromona		Lagun	
Oyo	Awayetitun	Laketu		Oluwole	
Oyo	Atapa	Elewure		Olurin	
Oyo	Asheru	Ayanyemi		Kura	
Oyo	Asesu	Alalubosa		Amusan	
Oyo	Aratan	Fapo		Otunpa	
Oyo	Araromi	Ogburo		Lamuyan	
Oyo	Apenpe	Giwa Elewure		Alagbado	
Oyo	Apata	Lawani Alalubosa		Ewedeyi	
Oyo	Amoigbe	Alagbon		Olowode	
Oyo	Alapake	Oniwafin Tapa		Akintonwa	
Oyo	Alagbe	Elewuro		Adegbite	
Oyo	Alafose	Bogun		Oniwafin	
Oyo	Aladiro	Ajuwon		Batako	
Oyo	Alabuke	Olupan		Baba Oke	
Oyo	Alabi	Foke		Gbolasire	
Oyo	Akuo	Olayode		Anarun	
Oyo	Akinwande	Ewetunde		Oniyeye	
Oyo	Akeroro	Ajegunle		Abolohunko	
Oyo	Aiyetoro	Wasinmi		Asipa Oniyangi	
Oyo	Aiyetoro	Igbo-Oloro		Aipate	
Oyo	Aiyete	Aba Ibadan		Aba Odedele	
Oyo	Ago Fulani	Iserin		Olore	
Oyo	Agbaluko	Awolese		Eleiyele	
Oyo	Adewuyi	Tapa		Ajaburo	
Oyo	Adeto	Aba Nla		Elekule	
Oyo	Adepoju	Adeniji		Omotoso	
Oyo	Abule Nla	Olose		Elekule	
Oyo	Abule Nla	Agelu Jerusalem		Anko	
Oyo	Abule Apata	Apenpe Market		Abidioki	
Oyo	Aba Tuntun	Aluko		Budo Sule	

	Affected Communities of AMJ Flooding in HA VII		
STATE	Within 2km	Within 4km	Within 6km

Abia	Nil	Obiaku	Uzaku
Abia	Nil	Imo River	Umuahale

	Affected Communities of JAS Flooding in HA VII			
STATE	Within 2km	Within 4km	Within 6km	
Abia	Umuocheala	Ohambele	Akwete	Ama Igbo
Abia	Umu Agu	Obiaku	Obohia	Amamini
Abia	Ekenobizi	Imo River	Uzaku	Ohia
Abia		Ama Okpu	Umuahale	Umu Egwu
Abia		Aga	Umumba	Awu
Abia		Umu Nta	Okpuala	
Abia		Umu Uvo	Umu Eke Nne	
Abia		Owerri Nta	Nne Oyi	
Abia		Eziama Urata	Umu Ika	
Abia		Umuchima	Nkpuke	
Abia		Eziama	Mbutu	
Abia		Nsudimo	Ama Ekpu	
Abia		Umu Nwa Nwa	Ama Apu	
Abia		Ama Achara	Ahia Aba	
Abia		Umu Opara	Abayi	
Abia		Okahia Uga	Obieze	
Abia		Ama Ogugu	Okpo	

	Affected Communities of AMJ Flooding in HA VII		
STATE	Within 2km	Within 4km	Within 6km
Akwa Ibom	Uko Ntigha	Obianga	Etak Isip Or
Akwa Ibom	Ubukpor Urua Eye	Okoro Inyong	Efiat
Akwa Ibom	Oyuko Ibighi	Udung Eyo Utitntai	Unyene
Akwa Ibom	Oron	Obotung Enwang	Uya Oron
Akwa Ibom	Okorutip	Eyotong	
Akwa Ibom	Okobo Ebughu		
Akwa Ibom	Offi Uda		
Akwa Ibom	Oduonim Ison Inyiang		
Akwa Ibom	James Town		
Akwa Ibom	Iquita		
Akwa Ibom	Ibaka		
Akwa Ibom	Eyo Abasi		
Akwa Ibom	Enwang		
Akwa Ibom	Afaha Eduok		

	Affected Communities of JAS Flooding in HA VII			
STATE	Within 2km	Within 4km	Within 6km	
Akwa Ibom	Uko Ntigha	Obianga	Ique	Adadia
Akwa Ibom	Udenge	Okoro Inyong	Ererefe	Anakpa
Akwa Ibom	Uda	Ikpetim	Ikot Ukpo Mua	Ikpa
Akwa Ibom	Ubukpor Urua Eye	Ikot Etetuk	Ebana	Ifiayong Obot
Akwa Ibom	Qua Ibo Mission	Esit Urua	Etak Isip Or	Ekim
Akwa Ibom	Oyuko Ibighi	Edehbuk	Efiat	Ndon Nkim
Akwa Ibom	Oron	Udung Eyo Utitntai	Ukan	Ikot Akpan
Akwa Ibom	Opukalama	Obotung Enwang	Ikot Ndien	Mbak Atan
Akwa Ibom	Okorutip	Orukim	Afaha Eket	Ikot Obong
Akwa Ibom	Okopedi Itu	Elei	Ede Urua	Ikot Ekpene
Akwa Ibom	Okobo Ebughu	Okuko	Afaha Uqua	Idoro
Akwa Ibom	Offi Uda	Eyotong	Iko Eket	Akpa Uton
Akwa Ibom	Oduonim Ison Inyiang	Udung Uko	Afaha Atai	Ikot Obom
Akwa Ibom	Nditia	Uboro Isong Inyang	Unyene	Ikot Ekwere
Akwa Ibom	James Town	Etieke Ndung	Ikot Akpan	
Akwa Ibom	Itu	Utine	Udun Uwe	
Akwa Ibom	Iquita	Odobo	Udun Ukpo	
Akwa Ibom	Ikot Ntuen	Nung Atai	Urua Eye	
Akwa Ibom	Ikot Akpanata	Obufi	Akai Awu	
Akwa Ibom	Ikot Abiyak	Idua Asan	Akai Ate	
Akwa Ibom	Ika Oku	Atabong	Uko Itak	
Akwa Ibom	Ibaka	Ebighi Edu	Isung Udun Ukor	
Akwa Ibom	Eyo Abasi	Esuk Inwang	Oyubia	
Akwa Ibom	Enwang	Nwaniba	Uboro Oron	
Akwa Ibom	Ekeya	Ikot Essien	Mbukpo Uko Akai	
Akwa Ibom	Ebighi Eta	Mbak	Eyo Sung	
Akwa Ibom	Ayadeghe	Ididep Usuk	Eyo Nsek	
Akwa Ibom	Afaha Ikot Udoe	Ntan Mbat	Uya Oron	
Akwa Ibom	Afaha Eduok		Okopedi	

	Affected Communities of ON Flooding in HA VII		
STATE	Within 2km	Within 4km	Within 6km
Akwa Ibom	Uko Ntigha	Obianga	Etak Isip Or
Akwa Ibom	Ubukpor Urua Eye	Okoro Inyong	Efiat
Akwa Ibom	Okorutip	Udung Eyo Utitntai	Unyene
Akwa Ibom	Okobo Ebughu	Obotung Enwang	
Akwa Ibom	Offi Uda		

Akwa Ibom	Oduonim Ison Inyiang		
Akwa Ibom	James Town		
Akwa Ibom	Ibaka		
Akwa Ibom	Enwang		

	Affected Communities of AMJ Flooding in HA VII		
STATE	Within 2km	Within 4km	Within 6km
Cross River	Ikot Omin	Ekpene Esuk Essighi	Ibuot Ikot
Cross River	Ikot Okon	Idebe Offiong Umo	Efut Abua Essighi
Cross River	Ikot Efana Nkpa	Ikot Inwang Akpo	Essighi
Cross River	Ikot Ansa	Idebe Ikot Essien	Ikot Okon Ekpri Iwon
Cross River	Ikang	Ikot Effiong Essien	Ikot Edem Oku
Cross River	Ifiang Nsung	Ikot Ekpo Eyo	Awka Ikot Ene
Cross River	Ifiang Ayong	Ibonda	Ikot Edem Odo
Cross River	Esuk Utan	Ikot Enebong	Esuk Mba
Cross River	Esuk Otu		Atimbo
Cross River	Esuk Mba		Akabo
Cross River	Esuk Atu		Ekara Mbang
Cross River	Duke Town		
Cross River	Creek Town		
Cross River	Calabar		
Cross River	Adiabo Ikot Mbo		

	Affected Communities of JAS Flooding in HA VII			
STATE	Within 2km	Within 4km	Within 6km	
Cross River	Usumutong	Ikot Akpana	Ekpene Esuk Essighi	Ibuot Ikot
Cross River	Usukpan	Ikang	Idebe Offiong Umo	Efut Abua Essighi
Cross River	Umon Town	Ijom	Ikot Inwang Akpo	Essighi
Cross River	Ugbem	Igoni Igoni	Idebe Ikot Essien	Ikot Okon Ekpri Iwon
Cross River	Ufut	Igani	Ikot Effiong Essien	Ikot Edem Oku
Cross River	Ufak Efin	Ifiang Nsung	Ikot Ekpo Eyo	Awka Ikot Ene
Cross River	Uba Mbat	Ifiang Ayong	Ikot Esu	Ikot Edem Odo
Cross River	Oyina	Idim Iken	Ukim Ita	Esuk Mba
Cross River	Otu	Idere	Ibonda	Atimbo
Cross River	Oru Ukwa	Iboho Ito	Ikot Obong Eno	Mbombori
Cross River	Onyen	Ibinabam	Ikot Enebong	Ikoneto
Cross River	Okurike	Ibaribara	Ukem Ikot Ekpo Ene	Ikot Akpana
Cross River	Okpechi	Ewendiulu	Obot Eyo	Akabo

Cross River	Ojor	Etono	Nyokebika	Usung Urua
Cross River	Ogurude	Etehetem	Odukpani	Ekara Mbang
Cross River	Ogo Ubi	Etali	Inwa Akpa	Usung Esuk
Cross River	Ogo Ubi	Esuk Utan	Usung Esuk Odot	Afaha
Cross River	Ogodumofan	Esukpai	Mkpauno	Ifako Okoyong
Cross River	Ogada	Esuk Otu	Akpaita	Nyakasang
Cross River	Ofodua	Esuk Mba	Okpo	Ekenge
Cross River	Ofatura	Esuk Atu	Ntan Beach	Ekon Ntan Oku
Cross River	Odu	Eseku	Obodio	Odot Uyi
Cross River	Obum	Epenti	Idim Ndom	Ekim Ebebit
Cross River	Obubra	Eligere	Obio Usiere	Asang
Cross River	Obom Itiat	Ekuri	Atan Eki	Ekim Ito
Cross River	Obabene	Edu	Obot Ito Ikpo	Agarubo
Cross River	Nkpan Uruk	Ediba	Ibiabong Eki	Mburukem
Cross River	Ndijere	Edem Nwosu	Odiok	Nyene Kusun
Cross River	Ndibe Beach	Ebom	Akarim	Akansoka
Cross River	Ndekpo	Duke Town	Ndiugu	Orimimba
Cross River	Mbiabong	Creek Town	Utuma	Ukwa Nkasi
Cross River	Mbiabo Ikot Edem	Calabar	Obutong	Akpararuni
Cross River	Mbiabo Abasi Efiari	Biakpai Beach	Aba Isu	Biakpan
Cross River	Itu	Berukpa	Amukabi	Agoi Efut
Cross River	Itigidi	Atokpot	Itan Unan	Nkankpo
Cross River	Itan	Atan Onoyom	Ewe	Nko
Cross River	Inyima	Asukurubia	Ewe	Ovukwa
Cross River	Inurasu	Apiapum	Ndeacha	Kekpoti
Cross River	Inua Nnoh	Anyi	Ndiro	Ibine
Cross River	Imina	Ameta	Ikun	Egboro Enye
Cross River	Ikun Beach	Amaruran	Efut Eso	Iyamoyong
Cross River	Ikpalagwa	Amachi	Ubereni	Onyen Okpon
Cross River	Ikot Ukwak	Ali Ukwa	Abini	
Cross River	Ikot Omin	Akpatre Efe	Adim	
Cross River	Ikot Okporo	Akpasip	Umu Eworo	
Cross River	Ikot Okon Abasi	Ajirri	Ipene	
Cross River	Ikot Okon	Agwu Agwuna	Anong	
Cross River	Ikot Ogum	Agani	Oferekpe	
Cross River	Ikot Offiong	Agade	Onyadama	
Cross River	Ikot Nya	Afono	Emin Ekpon	
Cross River	Ikot Ndaw	Adun Beach	Igbo Emaban	
Cross River	Ikot Ikpeme	Adim	Asigo	
Cross River	Ikot Ekpo	Adiabo Okutikang	Inyigbede	
Cross River	Ikot Efana Nkpa	Adiabo Ikot Ukpa	Ofat	

Cross River	Ikot Efa	Adiabo Ikot Mbo	Oderiga	
Cross River	Ikot Ansa	Adadama	Obabene	
Cross River	Ikot Ana	Abayono	Arobom	
Cross River		Abarijang		
Cross River		Abapia		
Cross River		Abanwan		

	Affected Communities of JAS Flooding in HA VII		
STATE	Within 2km	Within 4km	Within 6km
Ebonyi	Unwana	Mgbom	Utughu
Ebonyi	Umuezeka	Amuro	Afikpo
Ebonyi	Umachalu	Uguago	Nsobo
Ebonyi	Uduku Enyi	Nko	Eka
Ebonyi	Udomowo	Afiaelem	Enyibichiri
Ebonyi	Ozizza	Imogu	Echara
Ebonyi	Ovonum	Igboji	Amachara
Ebonyi	Oniyikwa	Efie Mgbabu	Onuzo
Ebonyi	Okwaba	Omega Achara	Ngelegede
Ebonyi	Okporo	Akahufu Akpanundele	Oberi
Ebonyi	Ohike	Achoro Ndiagu	Agu Akpu
Ebonyi	Ohankwu	Mgbabo	Ugbuloke
Ebonyi	Ogbu	Okpetumo	Izekwe
Ebonyi	Ogbaga	Ameka	Ntezi Aba
Ebonyi	Ochokwu	Echialike	Otere Ofie
Ebonyi	Obusia Amachi	Isicha	Ugbongha
Ebonyi	Obiagu	Nkwagu	Awunmiri Nkareku
Ebonyi	Ndiechi Igbagu	Okpuitomo	Nwofe
Ebonyi	Ndiagu Amagu	Odenigbo	Alibaruhu
Ebonyi	Ndiachi	Agbaja	Ndegualeke
Ebonyi	Kpogrikpo	Obugha Amachi	Okposhi Mgbo
Ebonyi	Izzi	Ocheobo	
Ebonyi	Igoni Igoni	Ofe Iyiokwu	
Ebonyi	Igbo Beach	Abakaliki	
Ebonyi	Hotekwe	Ndiokabi	
Ebonyi	Ezza Ohu	Odomoke	
Ebonyi	Enyigba	Ndiochigbo	
Ebonyi	Eleke	Ojiegbe	
Ebonyi	Eketube	Isieke	
Ebonyi	Effium	Egwenedoha	
Ebonyi	Anofia	Ndiogodo	
Ebonyi	Amoncha	Isiohummini	
Ebonyi	Ameri	Umuezekaoha	
Ebonyi	Agodo	Ibenta Iza	

Ebonyi	Agbanyim	Ugede Effium	
Ebonyi	Afafanyi		
Ebonyi	Abuna		
Ebonyi	Abina		

	Affected Communities of AMJ Flooding in HA VII		
STATE	Within 2km	Within 4km	Within 6km
Rivers	Umuosi	Sii	Nil
Rivers	Opobo Town	Sime Luekon	
Rivers	Opobo	Nomabom	
Rivers	Okoro Iko	Owaza	
Rivers	Oboakpu		
Rivers	Nkoro		
Rivers	Ikuru		
Rivers	Ika		
Rivers	Ebukama		
Rivers	Dema		
Rivers	Bodo		
Rivers	Ayama		
Rivers	Amanku		
Rivers	Konko		

	Affected Communities of JAS Flooding in HA VII		
STATE	Within 2km	Within 4km	Within 6km
Rivers	Umuosi	Sii	Kono Bewa
Rivers	Umununu	Kono	Baen
Rivers	Opuoko	Eken	Ewen
Rivers	Opobo Town	Kpean	Bela
Rivers	Opobo	Kwakwa	Onne
Rivers	Okoro Iko	Buan	Ikpokiri
Rivers	Okomoko	Gbe	Yae
Rivers	Odufor	Bomu	Kpaa
Rivers	Oboakpu	Mogho	Kenkoro
Rivers	Obete	Kpor	Egburu
Rivers	Nkoro	Luwa	Okwale
Rivers	Nini	Lumene Bangha	Luebe
Rivers	Luekue Banghan	Sime Luekon	Ka Lori
Rivers	Kibani	Nomabom	Ban Lori
Rivers	Kalaoko	Owaza	Kale
Rivers	Ikuru	Umu Etchem	Ban Ogol
Rivers	Ika	Umueze	Gbaken
Rivers	Ebukama	Abara	Tuabom

Rivers	Dema	Afara	Afam
Rivers	Chokoche	Eberi	Egbelu
Rivers	Bodo	Umuobor	Olakwo
Rivers	Bane	Umu Agwu	Umu Dike
Rivers	Ayama	Isu	Umuede
Rivers	Amanku	Obwaro	Umu Ekewo
Rivers	Akwa	Umu Ukpo	Obukwu
Rivers	Akporku	Umu Okwa	Okodu
Rivers	Okoroagu	Ama Aji	Umu Oyoro
Rivers	Rumuakuru	Ogida	Obono
Rivers	Odagba	Umu Akirikpo	Ozuzu
Rivers	Igbo-Ekhe	Umu Oru	Ibodo
Rivers	Rukwangwo		Obite
Rivers	Konko		Ebu
Rivers	Owu		

	Affected Communities of ON Flooding in HA VII		
STATE	Within 2km	Within 4km	Within 6km
Rivers	Opobo Town	Sii	Onne
Rivers	Opobo		
Rivers	Okoro Iko		
Rivers	Nkoro		
Rivers	Ikuru		
Rivers	Ika		
Rivers	Ebukama		
Rivers	Dema		
Rivers	Bodo		
Rivers	Ayama		
Rivers	Amanku		

	Affected Communities of ON Flooding in HA VIII			
STATE	Within 2km		Within 4km	Within 6km
Bauchi	Zubuki	Gamji	Balijan	Runko
Bauchi	Yangamaku	Gadua	Jaka	Bususu
Bauchi	Tuje	Dingiri	Bagau	Gidenari
Bauchi	Tikirze	Digisa	Gurda	Anafari

Bauchi	Sumba	Buzawa	Yerimari	Zerami
Bauchi	Sakwa	Bundiai	Rogon Turaki	Suari
Bauchi	Mallemadigo	Bombata	Gagudura	Dan Gummai
Bauchi	Maio	Asburbum	Kukin Burera	Dogonjeji
Bauchi	Madobi	Aria	Yakase	Konkomeri
Bauchi	Kutunas	Andelewa	Dagon Jaji	Gambara
Bauchi	Kura	Ajangara	Mube	Damewa
Bauchi	Kubuwa		Mashamo	Kafin Larabawa
Bauchi	Kore		Zokaram	Kaguma
Bauchi	Kawali		Rimi	Murmur
Bauchi	Katambus		Kaiel	Asoke
Bauchi	Katagum		Hausawa	Makawa
Bauchi	Kalaguri		Dumunu	Teshena
Bauchi	Kafin Doki		Sandigalou	Maiwa
Bauchi	Jamaare		Bornesu	Sabakwa
Bauchi	Jaekil		Saradugum	Mamako
Bauchi	Itas		Damadi	
Bauchi	Gongo		Jerau	
Bauchi	Gellar		Kajawai	
Bauchi	Garnua		Abinabo Aiko	

	Affected Communities of JAS Flooding in HA VIII		
STATE	Within 2km	Within 4km	within 6km
Borno	Giri	Ngurno	Kekeno
Borno	Ala	Yebi Bandi	Birri
Borno		Mitile	Bulturi
Borno		Bisagana	Arege
Borno			Chilimri

	Affected Communities of ON Flooding in HA VIII		
STATE	Within 2km	Within 4km	Within 6km
Borno	Giri	Baga	Jegara Waji
Borno	Ala	Ngurno	Kekeno
Borno		Yebi Bandi	Birri
Borno		Mitile	Bulturi
Borno		Bisagana	Arege
Borno			Chilimri

	Affected Communities of ON Flooding in HA VIII			
STATE	Within 2km		Within 4km	Within 6km
Jigawa	Zandan Nagogo	Gasakole	Malajin Gabas	Farin Dutse
Jigawa	Zandan	Garadu	Malaji	Samongara
Jigawa	Yelwa	Ganau	Jikas	Salmonde
Jigawa	Yan Dutse	Gammayim	Afrikum	Jigawa
Jigawa	Unuk	Gambo	Ramani	Kabi
Jigawa	Unguwar Auramo	Galdimari	Nahuche	Maruta
Jigawa	Unguwa	Galadi	Ringim	Maje
Jigawa	Takarda	Gadua	Zangon Kanya	Mamajo
Jigawa	Shinga	Gadala	Tsakuwawa	Duja
Jigawa	Shafar	Gabargal	Dagazo	Gerawa
Jigawa	Sawo	Duduri	Garbo	Dabigel
Jigawa	Safa	Dongolo	Zareku	Dan Makeri
Jigawa	Sabuwar Gwaram	Dingare	Kulluru	Sagolare
Jigawa	Rago	Darai	Mallamawa	Yan Duna
Jigawa	Nassarawa	Dadda	Gilima	Garnia
Jigawa	Muzba	Chachamnau	Maje	Gidan Maza
Jigawa	Miga	Baturia	Nahuche	Margawa
Jigawa	Merkiu	Batu	Bardo	Sabon Gari
Jigawa	Maranda	Aima	Kirrikasamma	Jamaga
Jigawa	Madaga	Agufa	Godawal	Dumumi
Jigawa	Machenua	Aduchua	Anaweya	Gurka
Jigawa	Lyo	Adiani	Maitundu	Hada
Jigawa	Lodio	Abonabo	Agim	Auyakayi
Jigawa	Kwartawar Filani		Iddil	Arki
Jigawa	Kunnunu		Hari	Takara
Jigawa	Kukangiwa		Gandu	Akurya
Jigawa	Keffin Hausa		Musari	Makader
Jigawa	Kazura		Dakido	Ruba
Jigawa	Kasalawa		Karafua	Dumbari
Jigawa	Karanga		Kinna	Bulama Haseini
Jigawa	Kalgo		Dagana	Kadera
Jigawa	Kale		Walawa	Guttu
Jigawa	Kajirawa		Maigarmaka	Sugum
Jigawa	Jarkasa		Gorewa	Lalashi
Jigawa	Harbo		Lafia	Katalari
Jigawa	Hantsu		Kwaga	Garin Hasan
Jigawa	Hago		Maba	Kwakwarasa
Jigawa	Gwaram		Barburam	Hardo Buba
Jigawa	Gunka		Tabki	Gurri
Jigawa	Gululu		Kwubsa	Dankira
Jigawa	Gora			Dole
Jigawa	Girari			Dam Kumbo

Jigawa	Gidan Tohuwa			Zazabo
Jigawa	Gidan Mahabi			Birniwa
Jigawa	Gidan Butai			Kukawa
Jigawa	Gassanye			Gabbas Mari

	Affected Communities of ON Flooding in HA VIII		
STATE	Within 2km	Within 4km	Within 6km
Kano	Zangon Gulya	Sarkin Rafi	Kariya
Kano	Yakasawa	Sumana	Ungwan Sarkin Kida
Kano	Wudil	Faskar Ma'aji	Bayan Dutse
Kano	Utai	Shuwaki	Gazobi Tsohuwa
Kano	Unguabai	Rugurugu	Rufan Mai Garu
Kano	Turame	Ungwan Mahammadu	Karefa
Kano	Tsakuwa	Gishirya	Yalwa
Kano	Toranke	Yalwa ta Arewa	Jingin
Kano	Shigacawa	Malmo	Tsohuwar Badafi
Kano	Sako	Katsalle	Katanga
Kano	Sakaratsa	Chiromawa	Ungwan Arna
Kano	Ruwan Tabo	Garun Malam	Chutar Buki
Kano	Rurum	Dususu	Rantan
Kano	Rikadawa	Lamire	Wak
Kano	Ningawa	Indabo	Garum Malam
Kano	Maraya	Shafe	Yadakwari
Kano	Lajawa	Dumi	Kademi
Kano	Kundurum	Kubarachi	Garun Kaya
Kano	Kuki	Madobi	Kura
Kano	Karofin Yashi	Rafin Dodo	Yakasai
Kano	Karfi Ruga	Dan Hassan	Imawa
Kano	Kafin Kadiri	Rugar Duka	Baskore
Kano	Kafin Agur	Kanwa	Massanawa
Kano	Joda	Gora	Juli
Kano	Jita	Ungwan Sora Gora	Yan Kusa
Kano	Gurduba	Daburau	Maigarin Damo
Kano	Ginkoso	Gano	Gaida
Kano	Gazana	Unguwan Larawa	Gwazaye
Kano	Dawakin Kudu	Kausani	Dabin Kanawa
Kano	Dan Zogari	Kwankwaso	Hawan Dawaki
Kano	Dan Maryama	Kazode	Janguza
Kano	Damurna	Wangara	Sabaru
Kano	Dalili	Kanwa	Makuntun
Kano	Dagabau	Gulu	Kyaberi
Kano	Dabi	Galadimawa	Kirara
Kano	Chula	Tamburawa	Digawa

Kano	Chalawa	Kumbotso	Kafin Karya
Kano	Butauwa	Tummawa	
Kano	Burji	Zawaciki	
Kano	Biyamusu	Kuyan	
Kano	Bakin Kogi	Mai Jama'a	
Kano	Alwali	Balare	
Kano	Alore	Garshinci	
Kano	Ungwan Yamu		
Kano	Kusuba		
Kano	Agauwa		
Kano	Kebe		
Kano	Rugar Kimaw		
Kano	Ruga		
Kano	Bawa		

	Affected Communities of JAS Flooding in HA VIII			
STATE	Within 2km		within 4km	Within 6km
Yobe	Tazga	Gweeak	Mugrum	Zeddi
Yobe	Tarajim	Gumsai Gagala	Gwaiyo	Zabadam
Yobe	Tafoa	Gorgoram	Dachia	Amsi
Yobe	Njibia	Gorga	Karege	Jawur
Yobe	Marumari	Gisum	Kelluri	Karege
Yobe	Margawa	Gamzagi	Mar	Mazagon
Yobe	Madawun	Gamajam	Badi	Magirari
Yobe	Kunu	Dumbari	Kogiari	Gorrgo
Yobe	Kukuri	Dekwa	Dillala	Buluk Buluk
Yobe	Koremaram	Daifa	Bukari	Karagu
Yobe	Kilboa	Chillima	Diru	Ngarabo
Yobe	Katiwa	Chalwaram	Kulluk	Kila Kumagun
Yobe	Karagu	Bitoa		Nganawa
Yobe	Kanama	Bagayam		
Yobe	Kajia	Babilla		
Yobe	Haska	Addia		

	Affected Communities of ON Flooding in HA VIII			
STATE	Within 2km		Within 4km	Within 6km
Yobe	Yaro	Guba	Baga	Jegara Waji
Yobe	Tazga	Gorgoram	Ngurno	Kekeno
Yobe	Tarajim	Gorga	Yebi Bandi	Birri
Yobe	Tafoa	Gisum	Mitile	Bulturi
Yobe	Shami Mairi	Gilbosu	Bisagana	Arege

Yobe	Shame Kura	Geidam		Chilimri
Yobe	Rinukunu	Garin Alkali		
Yobe	Raga	Garandoili		
Yobe	Njibia	Gamzagi		
Yobe	Nallewa	Gamajam		
Yobe	Moswa	Galaba		
Yobe	Meleri	Dumbari		
Yobe	Marumari	Dobiri		
Yobe	Margawa	Dekwa		
Yobe	Madawun	Damakarba		
Yobe	Kunu	Damaia		
Yobe	Kukuri	Dajina Bonegarel		
Yobe	Koremaram	Daifa		
Yobe	Kilboa	Dagambi		
Yobe	Katiwa	Dafso		
Yobe	Karagu	Chillima		
Yobe	Kanama	Chalwaram		
Yobe	Kajia	Buruta		
Yobe	Jawa	Bitoa		
Yobe	Haska	Belle		
Yobe	Gweeak	Baiomari		
Yobe	Gumsai Gagala	Bagayam		
Yobe	Gumsa	Babilla		
Yobe	Gullamoran	Addia		
Yobe	Guji			

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