

VOTE: 109

Uganda National Meteorological Authority (UNMA)

V1: VOTE OVERVIEW

i) Vote Strategic Objectives

- Improve the quality and quantity of meteorological services
- Promote the use of meteorological services
- Strengthen the institutional capacity to provide quality and timely meteorological products

ii) Snapshot of Medium Term Budget Allocations

Table V1.1 Overview of Vote Medium Term Allocations (Ush Billion)

Billion Uganda Shillings	FY2022/23		FY2023/24	MTEF Budget Projections			
	Approved Budget	Spent by End Sep	Proposed Budget	2024/25	2025/26	2026/27	2027/28
Recurrent Wage	7.413	1.529	7.413	7.784	8.562	9.418	9.418
Non Wage	3.686	0.029	3.670	3.743	4.492	6.064	6.064
Devt. GoU	6.557	0.000	6.060	6.060	7.272	10.181	10.181
ExtFin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GoU Total	17.656	1.558	17.143	17.587	20.326	25.663	25.663
Total GoU+Ext Fin (MTEF)	17.656	1.558	17.143	17.587	20.326	25.663	25.663
A.I.A Total	0.000	0	0	0.000	0.000	0.000	0.000
Grand Total	17.656	1.558	17.143	17.587	20.326	25.663	25.663

Table V1.2: Medium Term Projections by Programme and Sub-Subprogramme

Billion Uganda Shillings	FY2022/23		2023/24	MTEF Budget Projection			
	Approved Budget	Spent by End Sep	Proposed Budget	2024/25	2025/26	2026/27	2027/28
06 NATURAL RESOURCES, ENVIRONMENT, CLIMATE CHANGE, LAND AND WATER							
01 National Meteorological	17.656	1.558	17.143	17.587	20.326	25.663	25.663
Total for the Programme	17.656	1.558	17.143	17.587	20.326	25.663	25.663
Total for the Vote: 109	17.656	1.558	17.143	17.587	20.326	25.663	25.663

VOTE: 109

Uganda National Meteorological Authority (UNMA)

V2: MEDIUM TERM BUDGET ALLOCATIONS BY DEPARTMENT AND PROJECT

Table V2.1: Medium Term Projections by Department and Project

Billion Uganda Shillings	FY2022/23		2023/24	MTEF Budget Projection			
	Approved Budget	Spent by End Sep	Proposed Budget	2024/25	2025/26	2026/27	2027/28
Programme: 06 NATURAL RESOURCES, ENVIRONMENT, CLIMATE CHANGE, LAND AND WATER							
Sub-SubProgramme: 01 National Meteorological Services							
Recurrent							
002 Finance and administration	11.099	1.558	11.083	7.784	13.054	15.483	15.483
Development							
1678 Retooling of Uganda National Meteorological Authority	6.557	0.000	6.060	6.060	7.272	10.181	10.181
Total for the Sub-SubProgramme	17.656	1.558	17.143	17.587	20.326	25.663	25.663
Total for the Programme	17.656	1.558	17.143	17.587	20.326	25.663	25.663
Total for the Vote: 109	17.656	1.558	17.143	17.587	20.326	25.663	25.663

V3: VOTE MEDIUM TERM PLANS

Planned Outputs for FY2023/24 and Medium Term Plans

FY2022/23	FY2023/24		
Plan	BFP Performance	Plan	MEDIUM TERM PLANS

Programme Intervention: 060601 Enhance access and uptake of meteorological information

**VOTE: 109****Uganda National Meteorological Authority (UNMA)**

<p>Feedback on utilisation of meteorological forecasts and impacts of severe weather conditions achieved in central, eastern, northern and western regions.</p> <p>Enhanced capacity on the utilization of short-term weather information through farmer engagement undertaken for 40 districts countrywide</p> <p>Four (4) seasonal climate outlooks produced, translated into local languages and issued on quarterly basis to the whole country</p> <p>ICT based dissemination platforms of climate information identified and utilized</p> <p>Ministries, Departments, Agencies (MDAs) and Local Governments (LG) engaged in the co-production and use of climate information for planning and decision making</p> <p>20 Media personnel trained in downscaling and interpretation of climate forecasts and information in order to increase access to the information by the communities in the districts</p> <p>Daily forecasts disseminated to 4 media houses of UBC TV, Star TV, Bukedde 1 T.V and 1 privately owned TV station after the newscasts in Luganda, Swahili and English</p> <p>Sensitization and feedback on Marine forecasts obtained</p> <p>Marine weather services expanded to cover Lake Albert</p> <p>Awareness programs on the importance and use of meteorological services developed and disseminated in line with WMO's Public Education and Outreach Programs through</p>	<p>One seasonal climate outlook (September-December) was issued on for central, eastern, northern and western regions with advisories to particular climatological zones</p> <p>Conducted two regional downscaling engagements with media and farmers in Mbarara (western region) and Gulu (Northern region) to tailor the issued forecast to the regions.</p> <p>Conducted 7 radio talk shows in Karamoja (3), Bunyoro (1), Toro (1), Sembabule (1), Gulu (1) and Television talk shows on UBC, Family, NTV, NBS, Bukedde TV 1 to disseminate the issued seasonal forecast and generate feedback on utilisation of meteorological forecasts.</p> <p>552 Terminal Aerodrome Forecasts, 54 SIGMETs and 2891 Flight folders issued for Entebbe and Soroti; 16,376 METARs issued from 11 synoptic stations of Gulu, Masindi, Mbarara, Makerere, Kasese, Soroti, Lira, Kabale, Jinja, Entebbe and Tororo</p> <p>Daily forecasts disseminated to 3 media houses of UBC TV, Star TV AND Bukedde 1 T.V after the newscasts</p>	<p>Public awareness on weather and climate issues raised through media engagements, digital campaigns and talk shows</p> <p>4 seasonal climate outlooks issued countrywide with advisories to key sectors of the economy for all the 16 climatological zones</p> <p>4 Seasonal rainfall performance evaluations conducted in four regions of the country</p> <p>4 seasonal forecasts disseminated by conducting 20 radio talk shows across the country</p> <p>Vulnerability maps produced for 4 regions to identify climate change hotspot areas to support planning and decision making</p> <p>Pilot study on the utilisation of daily weather forecasts and impacts of severe weather conditions conducted in central and eastern regions.</p> <p>Sensitization and feedback on Marine forecasts obtained for Lakes Albert, Kyoga and Victoria</p> <p>6,570 Terminal Aerodrome Forecasts, 810 SIGMETs and 65,700 METARs and 35,570 Flight folders issued for Entebbe and Soroti (operating 24hrs) ; Gulu, Arua, Kasese, Kajjasi, Kabaale, Jinja and Tororo (operating 12hours) Aerodromes.</p> <p>Daily forecasts disseminated to 3 media houses of UBC TV, Star TV, Bukedde 1 T.V after the newscasts in Luganda, Swahili and English</p> <p>4 Community engagements undertaken to expand Marine weather services to cover Lake Albert (Butyaba and Wanseko) and Kyoga (Namasale and Lwampanga)</p> <p>Sensitisation programs on the importance and use of meteorological services developed and disseminated in 30 primary and 30 secondary schools in Bulisa, Kikube, Kiryandongo, Masindi, Amolatar, Dokolo, Alebtong districts as per WMO's Public Education and Outreach Programs</p> <p>14 Parish Weather Clinics implemented to support the PDM of</p>	<p>Public awareness on weather and climate issues raised through media engagements, digital campaigns and radio and T.V talk shows</p>
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VOTE: 109

Uganda National Meteorological Authority (UNMA)

Programs through popularising of Meteorology in 40 primary and 40 secondary schools in Kumi, Serere, Katakwi, Kaberamaido, Soroti, Pallisa, Busia and Tororo districts Research studies undertaken to strengthen research on future climate trends and its impacts to produce an annual state of the climate report for Uganda for 2021 and a Preliminary State of the Climate of Uganda 2022 Dissemination of daily weather information improved to Entebbe Airport station and other station visitors	implemented to support the PDM of Government in districts of Mbarara, Bushenyi, Otuke, Alebtong, Pakwa, Nebbi and Nwoya Research on impacts of severe weather events on People with Disabilities (PWD) carried out in Bududa, Kasungulu, Kampala, Soroti, Kaberamaido, Dokolo, Lira. The Annual State of the Climate report for Uganda for 2023 produced and provisional state of climate report of Uganda for 2024 developed
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Programme Intervention: 060604 Install new and adequately equip and maintain existing automatic weather stations to ensure maximum functionality

**VOTE: 109****Uganda National Meteorological Authority (UNMA)**

<p>1 Automatic Weather Observing Stations for Pakuba procured and installed</p> <p>5 Automatic stations in Albertine districts of Bundibugyo, Ntoroko, Buliisa, Kikuube and Kibaale established</p> <p>Functionality of 15 RIKA AWS and 10 DAVIS AWS stations increased in Lamwo-LamwoTC, LamwoMadiope, Adjumani-AdjumaniTC, Adjumani-Itirikwa, Nwoya-Alero, Nwoya-Gotapwoyo, Amur-Ataiak, Amur-Biira, Kitgum-Mucwini, Kitgum-Orom, Agago-Adilang, Agago-Wol, Gulu-Paloro, Omoro-Lalogi, Pader-Lantanya</p> <p>Functionality of 100 Rainfall Stations, 76 ADCON AWS and 53 manual weather stations maintained and improved across the country</p> <p>Radar and Windshear Operations maintained at Lira, Rwampara and Entebbe</p> <p>5 hydro-met stations of Butiaba, Pachwa, Ngoma, Nabwuin and Kyegegwa rehabilitated</p> <p>Radar Operation centre at Kigungu constructed, Lira and Kigungu radar sites fenced off.</p> <p>Calibration undertaken for 20 Atmospheric Barometers, 20 Air thermometers, 20 Sunshine sensors, 20 wind direction and speed sensors at 20 Weather stations</p> <p>1 Air Pollution monitoring station Established in Mbarara</p> <p>Upper Air Station in Entebbe and Ntusi weather station office rehabilitated</p> <p>1 Zonal Office of Mbarara Operationalized and nit</p>	<p>Operated and maintained 49 Automatic Weather Stations, 38 Manual Weather stations and 80 Rainfall stations to transmit data from the field station to the headquarters.</p> <p>Established partnership with Kiryandongo Sugar company and Hoima Sugar Company to establish 2 Automatic Weather Stations, sites were identified and MoUs were signed.</p>	<p>20 Barometers and 20 Thermometers calibrated</p> <p>Sanitation for 4 manual weather stations of Mubende, Bududa, Kotido, Wadelai improved</p> <p>100 Automatic Weather Stations, 38 Manual Weather Stations and 150 rainfall Stations maintained across the country.</p> <p>15 Manual Weather Stations equipped with 15 digital thermometers</p> <p>Functionality and Operation of 100 ADCON Automatic Weather Stations, 53 Manual Stations and 200 Rainfall Stations maintained across the Country</p> <p>Transmission of Weather data maintained from upcountry stations</p> <p>Office Shelters Raised for 2 Weather Stations of Kibanda and Wadelai</p>	<p>40 Automatic Weather Stations, 250 Manual Rain gauges, 100 Digital thermometers, 60 Anemometers, 60 Digital Evaporation Pans, 60 Sunshine recorders and 600 Measuring cylinders procured and installed in all the climatological zones especially those that don't have most equipment.</p>
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VOTE: 109

Uganda National Meteorological Authority (UNMA)

Operationalized and pit latrines of Ntusi and Kibanda constructed

V4: Highlights of Vote Projected Performance

Table V4.1: Budget Outputs and Indicators

Programme:	06 NATURAL RESOURCES, ENVIRONMENT, CLIMATE CHANGE, LAND AND WATER					
Sub SubProgramme:	01 National Meteorological Services					
Department:	002 Finance and administration					
Budget Output:	000004 Finance and Accounting					
PIAP Output:	Research on future climate trends and potential impacts undertaken.					
Programme Intervention:	060601 Enhance access and uptake of meteorological information					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of research studies undertaken.	Number	2021-22	1	2	0	1
Budget Output:	000005 Human Resource Management					
PIAP Output:	Research on future climate trends and potential impacts undertaken.					
Programme Intervention:	060601 Enhance access and uptake of meteorological information					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of research studies undertaken.	Number	2021-22	1	2	0	1
Budget Output:	000008 Records Management					

VOTE: 109

Uganda National Meteorological Authority (UNMA)

Sub SubProgramme:	01 National Meteorological Services					
PIAP Output:	Research on future climate trends and potential impacts undertaken.					
Programme Intervention:	060601 Enhance access and uptake of meteorological information					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of research studies undertaken.	Number	2021-22	1	2	0	1
Project:	1678 Retooling of Uganda National Meteorological Authority					
Budget Output:	000003 Facilities and Equipment Management					
PIAP Output:	Functional automatic weather stations installed and maintained					
Programme Intervention:	060604 Install new and adequately equip and maintain existing automatic weather stations to ensure maximum functionality					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of automatic meteorological stations operational	Number	2021-22	169	100		175
Budget Output:	000004 Finance and Accounting					
PIAP Output:	Research on future climate trends and potential impacts undertaken.					
Programme Intervention:	060601 Enhance access and uptake of meteorological information					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of research studies undertaken.	Number	2021-22	1	2		1
Budget Output:	000005 Human Resource Management					
PIAP Output:	Research on future climate trends and potential impacts undertaken.					
Programme Intervention:	060601 Enhance access and uptake of meteorological information					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of research studies undertaken.	Number	2021-22	1	2		1

**VOTE: 109****Uganda National Meteorological Authority (UNMA)**

<b>Sub SubProgramme:</b>	01 National Meteorological Services					
<b>Budget Output:</b>	140012 Applied meteorology,data and climate services					
<b>PIAP Output:</b>	Information and knowledge base on projected climate trends and impacts established and disseminated					
<b>Programme Intervention:</b>	060601 Enhance access and uptake of meteorological information					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
No. of research studeis undertaken	Number	2021-22	1	2	0	1
<b>Budget Output:</b>	140013 Weather information processing					
<b>PIAP Output:</b>	Functional automatic weather stations installed and maintained					
<b>Programme Intervention:</b>	060604 Install new and adequately equip and maintain existing automatic weather stations to ensure maximum functionality					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of automatic meteorological stations operational	Number	2021-22	169	100		175
<b>Budget Output:</b>	140014 Weather observation and forecasting					
<b>PIAP Output:</b>	Weather and air pollution monitoring station network expanded and functional					
<b>Programme Intervention:</b>	060604 Install new and adequately equip and maintain existing automatic weather stations to ensure maximum functionality					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Functional automatic weather stations installed and maintained.	Number	2021-22	169	100	169	175
<b>Budget Output:</b>	140015 Weather and climate monitoring					
<b>PIAP Output:</b>	Functional automatic weather stations installed and maintained					
<b>Programme Intervention:</b>	060604 Install new and adequately equip and maintain existing automatic weather stations to ensure maximum functionality					



VOTE: 109

Uganda National Meteorological Authority (UNMA)

Sub SubProgramme:	01 National Meteorological Services					
PIAP Output:	Functional automatic weather stations installed and maintained					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of automatic meteorological stations operational	Number	2021-22	169	91	169	175
Budget Output:	140017 Meteorological Research					
PIAP Output:	Research on future climate trends and potential impacts undertaken.					
Programme Intervention:	060601 Enhance access and uptake of meteorological information					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24
				Target	Q1 Performance	Proposed
Number of research studies undertaken.	Number	2021-22	1	2	0	1

V5: VOTE CROSS CUTTING ISSUES

i) Gender and Equity

OBJECTIVE	Increase access to weather and climate information by women, men and vulnerable groups
Issue of Concern	Access to weather and climate information by women, men and vulnerable groups is a challenge due to the dissemination mechanisms that have been previously used.
Planned Interventions	Design different channels for dissemination of weather and climate information to the women, men and other vulnerable groups
Budget Allocation (Billion)	0.12
Performance Indicators	Number of new dissemination channels used

ii) HIV/AIDS

OBJECTIVE	Reduce delays in data flow to head quarters
Issue of Concern	There are days when data flow to the Headquarters is hindered by the absence of a staff to make observations at the weather stations due to HIV/AIDSs related illness.
Planned Interventions	Provision of Medical insurance to all staff and implementation of the UNMA HIV/AIDS Policy
Budget Allocation (Billion)	0.723
Performance Indicators	Payment for medical insurance on a quarterly basis

iii) Environment

VOTE: 109

Uganda National Meteorological Authority (UNMA)

OBJECTIVE	Install equipment to monitor the pollution levels for appropriate actions to be taken
Issue of Concern	air pollution is a challenge which is partly because there's no equipment to monitor the pollution levels for appropriate actions to be taken
Planned Interventions	Unfunded priority
Budget Allocation (Billion)	0
Performance Indicators	Number of air pollution monitoring equipment procured.

iv) Covid

OBJECTIVE	Increase adherence to Standard Operating Procedures issued by MoH
Issue of Concern	Adherence to Standard Operating Procedures issued by MoH is challenging given the increased cost of consumables.
Planned Interventions	Procurement of cleaning items and Covid 19 related items
Budget Allocation (Billion)	0.06
Performance Indicators	Expenditure on cleaning materials