



Weather Forecast for 21st to 31st December 2021

1. Executive summary

Rainfall ranging between 30 and 150 mm is expected in the coming ten days which is above range of Long Mean (LTM) rainfall for December dekad three. Enhanced rainfall ranging between 130 and 150 mm is expected in many parts of Nyamasheke, Rutsiro, central Rusizi and northern parts of Nyabihu. Most of the remaining parts of Western Province and northern parts of Gakenke, Rulindo and Gicumbi, western parts of Musanze and Nyagatare and southern parts of Burera district are also expected to get enhanced rainfall ranging between 110 and 130 mm. Moderate rainfall ranging between 30 and 110 mm is expected in other parts of the country but lowest value ranging between 30 and 50 mm is expected in many parts of Rwamagana, western and southern parts of Gatsibo, northern parts of Kayonza and southern parts of Kirehe districts. Rainy days are expected to vary between four (4) and seven (7) which is evenly distributed along the dekad. Moderate to slightly strong wind speed ranging between 4m/s and 8m/s is expected across the country.

The enhancement of rainfall is expected towards the end of December 2021 that predicted to cease towards the end of season but according to the predicted forecast the cessation period is predicted in mid-January 2022 and farmers are advised to factor the predicted weather into their harvesting and post-harvest activities.

2. Forecast of rainfall

Cumulative rainfall ranging between 30 and 150 mm is expected across the country during the second dekad of December 2021. Enhanced rainfall ranging between 130 and 150 mm is expected in many parts of Nyamasheke and Rutsiro districts, central Rusizi and northern parts of Nyabihu district. Most of the remaining parts of Western Province and northern parts of Gakenke, Rulindo and Gicumbi, western parts of Musanze and Nyagatare and southern parts of Burera district are also expected to receive enhanced rainfall ranging between 110 and 130 mm. Most parts of Southern Province, eastern parts of Karongi, Ngororero and Nyabihu districts, remaining parts of northern province, north western parts of Kigali city most parts of Ngoma district and central parts of Nyagatare towards the west are expected to get rainfall ranging between 70 and 110 mm. Rainfall ranging between 50 and 70 mm is expected in most parts of Bugesera, Amayaga, remaining parts of Kigali, Ngoma and Nyagatare, north and western parts of Gatsibo, southern part of Kayonza, some parts located in south west of Rwamagana, and many parts of Kirehe District. Rainfall ranging between 30 and 50 mm are expected in many parts of Rwamagana, western and southern parts of Gatsibo, northern part of Kayonza and southern parts of Kirehe districts.

Rainy days are expected to vary between four (4) and seven (7) which is evenly distributed along the dekad. The expected rainfall will be above the range of long term mean of 3rd dekad of December in most parts of the country. The expected rains will result from enhancement of local effects supported by moisture advection from Lake Victoria and Congo air mass.

3. Forecast of maximum temperature

The mean maximum temperature for ten days will range between 18°C and 30°C depending on the location. The highest temperature expected is in the range of 28°C and 30°C in some parts of Kigali city, most parts of Bugesera district, some parts of Ngoma district, Amayaga region and Bugarama plain. The areas expected to



experience lower values of maximum temperature ranging between 18°C and 20°C include northern parts of Musanze, Rubavu and Nyabihu districts. The expected temperature is in the range of long term average across the country.

4. Forecast of wind Speed

The distribution map of wind speed forecast below indicates slightly strong wind ranging between 6m/s and 8m/s in many parts of Southern Province, north western, north eastern and central parts of the country. Moderate wind ranging between 3m/s and 6m/s is expected in the remaining parts of the country.

For more details on spatial distribution of rainfall, maximum temperature and wind speed, refer to the maps below.

