



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

WEATHER AND CROP REVIEW FOR DEKAD 24, 21-31 AUGUST, 2015

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was an increase in spatial distribution and a decrease in the intensity of rainfall activities compared to the last dekad. Rift valley region received the highest amount of rainfall countrywide with Eldoret Airport station recording 57.3mm compared to the previous dekad where Kakamega station in Western region reported the highest rainfall amounts of 63.6mm. Mtwapa station in Coastal region received the second highest rainfall amount of 27.6mm. In central region, the highest rainfall amount of 20.4mm was received at Nyahururu station. Kisii station in Nyanza region reported the highest rainfall amount of 18.2mm. In Western region, Kakamega station recorded the highest rainfall amount of 14.4mm. Wilson airport station in Nairobi region received the highest rainfall amount of 9.3mm. Eastern region recorded the highest rainfall amount of 3.5mm at Embu station, while Garissa station in North Eastern region reported the highest rainfall amount of 3.0 mm.

Maximum and Minimum temperature continued to increase and decrease respectively. Lodwar station continued to report the highest maximum temperature of 35.5°C. Nyahururu station in Central region continued to report the lowest minimum temperature of 5.2°C compared to 6.3°C in the previous Dekad.

For a more comprehensive summary of rainfall and other meteorological parameters, see Figures 3.1 to 3.4 as shown below.

2. CROP AND WEATHER REVIEW FOR DEKAD 24: 21-31 AUGUST, 2015

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded rainfall amount of 14.4mm during the dekad. The mean air temperature recorded was 22.0°C. The total Pan Evaporation was 46.4mm and no report on sunshine parameter.

Most farmers have harvested their maize.

2.1.2 Kisii

The station received total rainfall amount of 18.2mm. The mean air temperature and total Pan Evaporation recorded were 20.9°C and 46.2mm respectively. There was no report on sunshine duration.

Most farmers have harvested their Maize crop.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station reported total rainfall amount of 20.3mm. The mean air temperature and total Pan Evaporation recorded were 19.5°C and 40.8mm. There was no report on sunshine parameter.

Maize was at maturity stage and in fair state, hence normal yield is expected, though it has been adversely affected by insufficient rainfall.

2.2.2 Eldoret-Kapsoya

The station reported rainfall amount of 3.0mm. The mean air temperature and total Pan Evaporation recorded were 16.9°C and 40.0mm respectively. There was no report on sunshine duration.

Maize was at flowering stage and in fair state with normal yield expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received total rainfall amount of 3.3mm. The average air temperature was 17.7°C. There was no report on Pan Evaporation and sunshine parameters.

Most farmers have completed harvesting their crops.

2.3.2 Kabete

The station reported rainfall amount of 2.6mm. The total Pan Evaporation reported was 41.6mm. There was no report on Mean air Temperature and sunshine parameters.

Farmers are harvesting their maize and beans have been harvested.

2.3.3 Thika

The station received no rainfall. The mean air temperature and total Pan Evaporation recorded was 18.8°C and 47.5mm respectively. There was no report on sunshine parameter.

Farmers are preparing their farms for next season.

2.3.4 Nyahururu

The station reported rainfall amount of 20.4mm. The mean air temperature recorded was 14.1°C and 43.9mm respectively. There was no report on sunshine parameter.

Maize was at flowering stage and in fair state, hence normal yield is expected.

2.3.5. Dagoretti

The station received no rainfall. The Mean air Temperature recorded was 18.0°C. There was no report on total Pan Evaporation and sunshine hours.

No Phenological report.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station received total rainfall amount of 3.5mm. There was no report on Mean air Temperature, Pan Evaporation and sunshine parameters.

Most farmers have finished harvesting Maize.

2.4.2 Meru

The station received rainfall amount of 0.03mm. The mean air temperature and Pan Evaporation recorded was 17.8°C and 49.5mm respectively. There was no report on sunshine duration.

Most farmers have finished Maize harvesting.

2.4.3 Katumani (Machakos)

The station received no rainfall. The Mean air Temperature and Pan Evaporation recorded was 18.7°C and 55.0mm respectively. Sunshine duration was 6.0hrs/day

No Phenological report.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 15.6mm. The average air temperature and total Pan Evaporation recorded was 26.1°C and 64.6mm respectively. There was no report on sunshine duration.

Maize has been harvested while Mangoes were at 100% ripeness stage and in good state.

2.5.2 Mtwapa.

The station received rainfall amount of 27.6mm. The average air temperature and total Pan Evaporation recorded was 25.5°C and 48.3mm respectively. There was no report on Sunshine duration.

Maize was at harvest stage and in good state with normal yield expected, though maize had been adversely affected by birds, animals and stalk borer. Harvesting of early maize crop is still ongoing.

3.0 ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

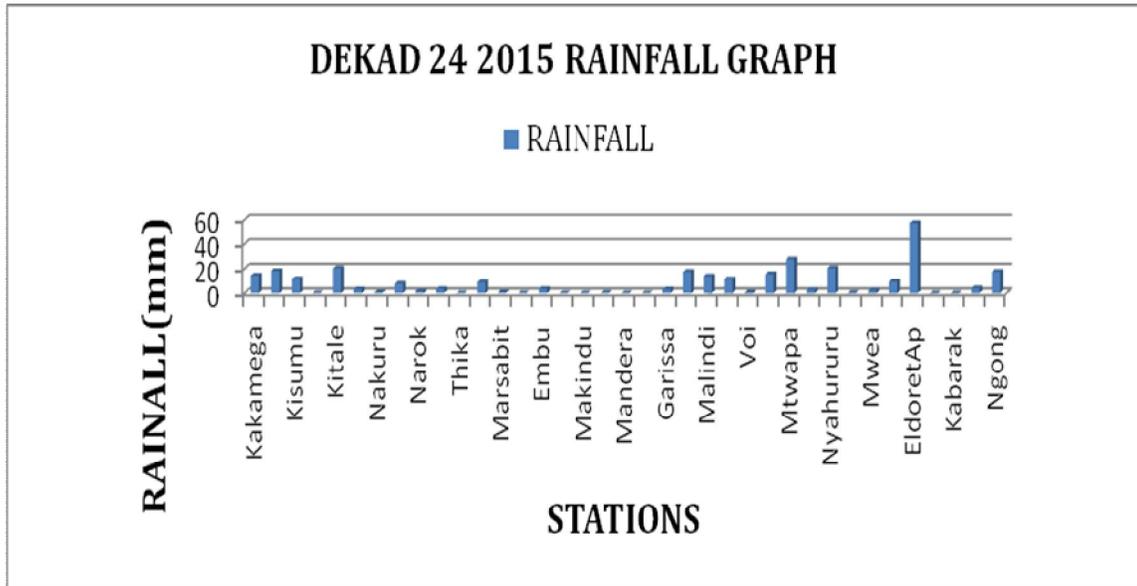


Figure 3.1: Dekadal rainfall totals for 21 –31 AUGUST 2015

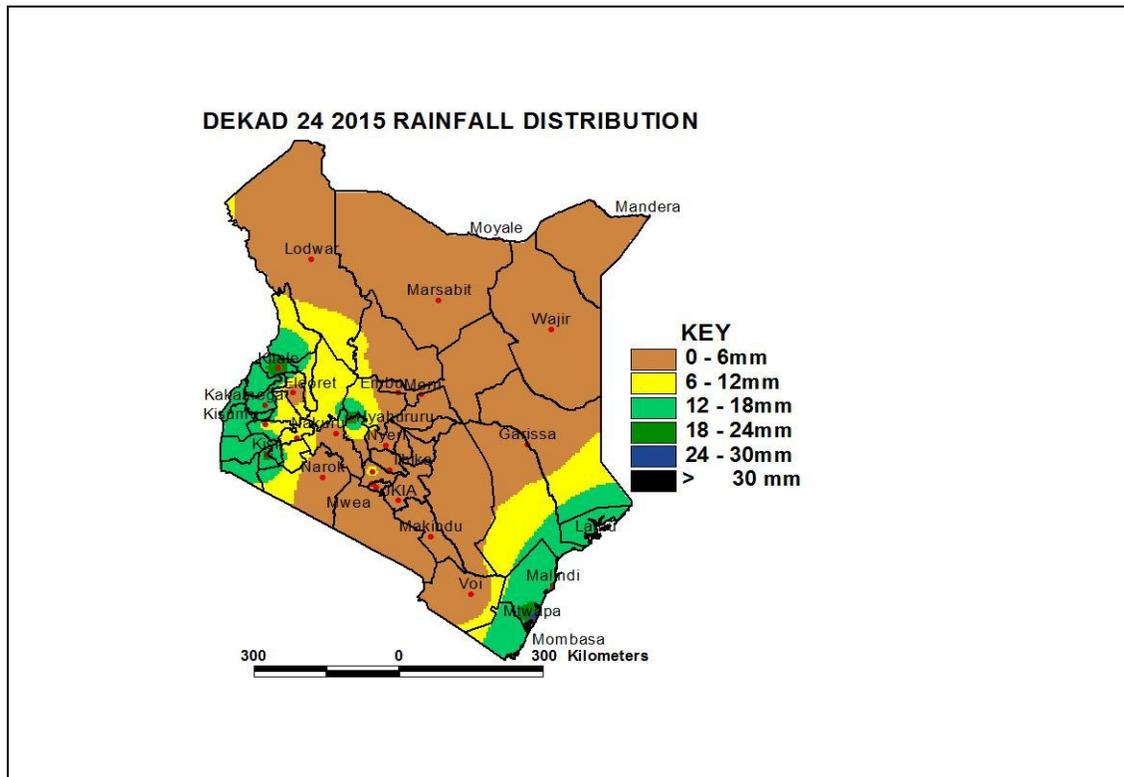


Figure 3.2: Dekadal rainfall distribution for dekad 24, 2015

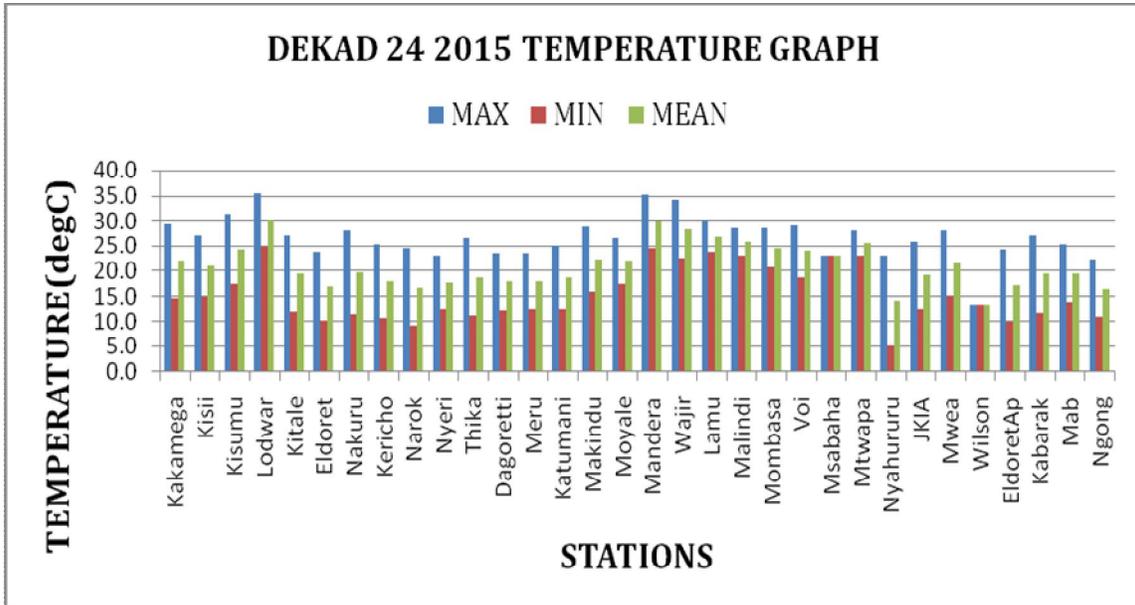


Figure 3.3: Maximum, Minimum and Average temperature for dekad 24, 2015

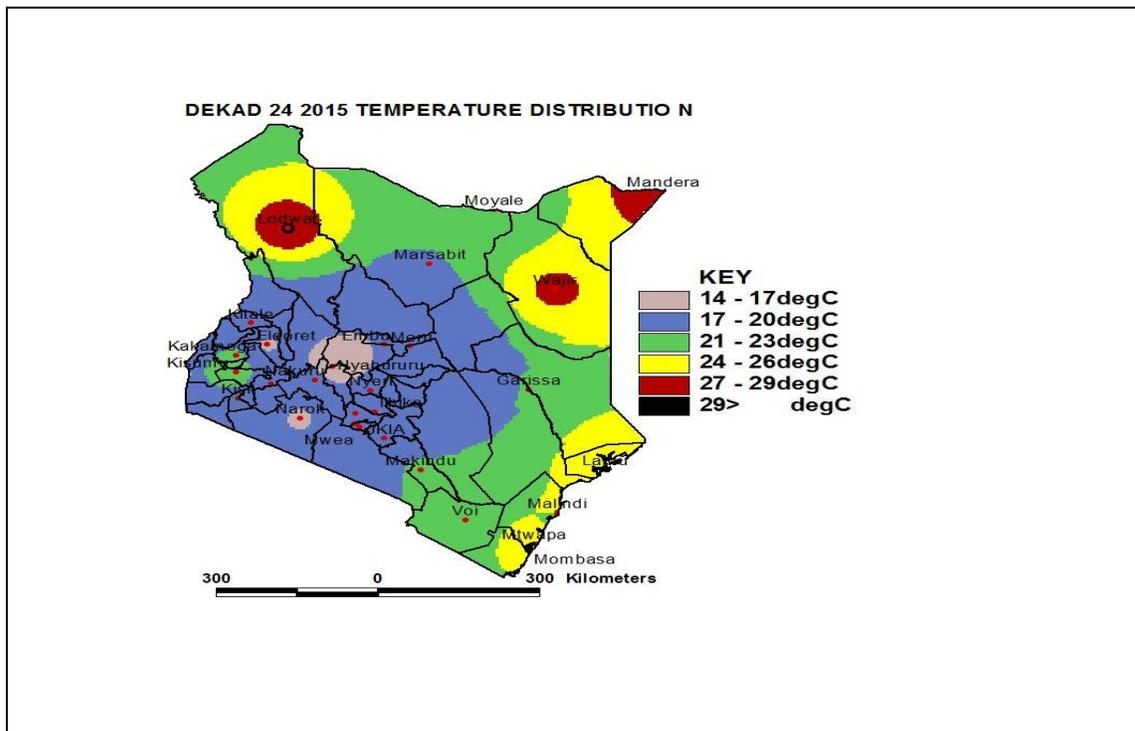


Figure 3.4: Mean temperature distribution for dekad 24, 2015

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 01-10 SEPTEMBER, 2015.

- ❖ **Counties within the Lake Victoria Basin, Highlands west of the Rift Valley, Nyamira, Kericho, Bomet, Uasin-Gishu, Nakuru, Narok, Trans Nzoia, Elgeyo Marakwet, Nandi, Laikipia, Kajiado, Vihiga and Busia)**, morning are expected to experience mainly sunny intervals throughout the forecast period. Afternoons are expected to experience mainly showers and thunderstorms over few places for the entire forecast period.

The morning sunny intervals will enhance the drying of maize, which are in harvesting stage in places like Kisumu, Kakamega and Kisii. The afternoon showers will be of great benefit to the crops that are still in maturity and flowering stages in places like Kitale and Eldoret respectively. They will also replenish the soil with moisture for the growth of pasture and vegetation that supports livestock keeping in this region.

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu)**, are expected to experience sunny intervals throughout the entire forecast period.

The continued sunny intervals will be of disadvantage to the growth of pasture and vegetation for livestock kept in these regions.

- ❖ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga)**, are expected to experience occasional early morning cloudiness and light rains giving way to sunny intervals throughout the forecasting period. Afternoons will experience showers over few places in the entire forecasting period.

The morning rains will be beneficial to the development of maize crops that are in the flowering stage in places like Nyahururu. The sunny conditions are beneficial to the drying of maize for harvest in places like Kabete, Meru etc.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo)**, are expected to experience mainly sunny intervals throughout the entire forecast period.

The sunny intervals continue to have a negative impact on the growth of pasture and vegetation that supports the livestock kept in these regions.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)**, are expected to experience mainly sunny intervals the entire day throughout the forecast period with occasional light afternoon showers on the third and the fourth days of the forecast period.

The expected showers will be beneficial to the growth of pasture for the animals kept in these places.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)**, are expected to experience mainly showers over few places throughout the forecast period. Afternoons will experience mainly sunny intervals.

The morning showers will continue benefiting the development of Mangoes at ripeness stage in Msabaha and the sunny intervals are beneficial to the maize that is in harvesting stage in Lamu and Mtwapa.

For feedback or further guidance, Contact:

Director,

Kenya Meteorological Services,

Agro meteorological Advisory Services Division,

Dagoretti Corner, Ngong Road, P.O. Box 30259, 00100 GPO, Nairobi

Tel: +254 (0)20 3867880-7/3876957/3873682; Fax: +254 (0)20 3876955

E-mail: agromet@meteo.go.ke;

Website: www.meteo.go.ke

©2015 Kenya Meteorological Services.