



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

WEATHER AND CROP REVIEW FOR DEKAD 23, 11-20 AUGUST, 2015

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities decreased in both intensity and spatial distribution during this dekad. Kakamega station in Western region continued to report the highest rainfall of 63.6mm compared to 120.6mm reported in the previous dekad. The second highest rainfall amount of 62.0mm was received in Kisii station in Nyanza region. Coastal region, received the highest rainfall amount of 8.1mm at Lamu station. Kericho station in the Rift Valley region recorded the highest rainfall amount of 35.8mm. Eastern region received the highest rainfall amount of 1.3mm at Embu station. Nyahururu station in Central region reported the highest rainfall amount of 4.7mm. The least rainfall amount of 0.03mm was reported in North Eastern region at Moyale station, while stations in Nairobi region reported dry conditions.

Maximum temperature continued to increase while Minimum temperature was on a decreasing trend. Lodwar station in North-eastern region continued to report the highest maximum temperature of 35.6°C compared to 35.3°C recorded at same station in the previous dekad. The lowest minimum temperature of 6.3°C was reported at Nyahururu station in Central region compared to 6.9°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 23: 11- 20 AUGUST, 2015

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station reported rainfall amount of 63.6mm during the dekad. The mean air temperature recorded was 21.9°C. There was no report on Pan Evaporation and sunshine parameters.

Harvesting of maize is underway

2.1.2 Kisii

The station received total rainfall amount of 62.0mm. The mean air temperature recorded was 20.7°C. There was no report on sunshine duration and Pan Evaporation parameter.

Maize was at harvesting stage and in fair state with normal yield expected. Some farmers have started harvesting.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station reported total rainfall amount of 14.3mm. The mean air temperature recorded was 18.9°C. There was no report on Pan Evaporation and sunshine parameters.

Maize was at maturity stage and in good state, hence normal yield is expected.

2.2.2 Eldoret-Kapsoya

The station reported rainfall amount of 28.2mm. The mean air temperature recorded was 16.6°C. There was no report on Pan Evaporation and sunshine duration.

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

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received total rainfall amount of 0.1mm. The average air temperature was 17.3°C. There was no report on Pan Evaporation and sunshine parameters.

Maize was at wax ripeness stage and in poor state due to adverse effect by stalk borer and insufficient rainfall, hence below normal yield is expected.

2.3.2 Kabete

The station reported dry conditions. There was no report on Mean air temperature, Pan Evaporation and sunshine parameters.

Both maize and beans were at harvest stage and in fair state with normal yield expected. Harvesting is ongoing

2.3.3 Thika

The station received no rainfall. The mean air temperature recorded was 18.5°C. There was no report on Pan Evaporation and sunshine parameters.

Farmers are preparing their farms for next season.

2.3.4 Nyahururu

The station reported rainfall amount of 4.7mm. The mean air temperature recorded was 14.8°C. There was no report on Pan Evaporation and sunshine parameters.

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.

Maize had been harvested in green form.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station received total rainfall amount of 1.3mm. There was no report on Mean air Temperature, Pan Evaporation and sunshine parameters.

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

2.4.2 Meru

The station received rainfall amount of 0.02mm. The mean air temperature recorded was 17.6°C. There was no report on Pan Evaporation and sunshine duration.

Maize was at full ripeness stage and in fair state hence normal yield is expected.

2.4.3 Katumani (Machakos)

The station reported no rainfall amount. The Mean air Temperature recorded was 18.3°C. There was no report on Pan Evaporation and Sunshine duration.

Harvesting of maize is complete.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 8.0mm. The average air temperature recorded was 26.1°C. There was no report on Pan Evaporation and sunshine duration.

Maize was at harvesting stage and in fair state hence normal yield is expected. Mangoes were at 100% ripeness stage and in good state.

2.5.2 Mtwapa.

The station received rainfall amount of 7.8mm. The average air temperature was 25.1°C. There was no report on total Pan Evaporation and Sunshine duration.

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

3.0 ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

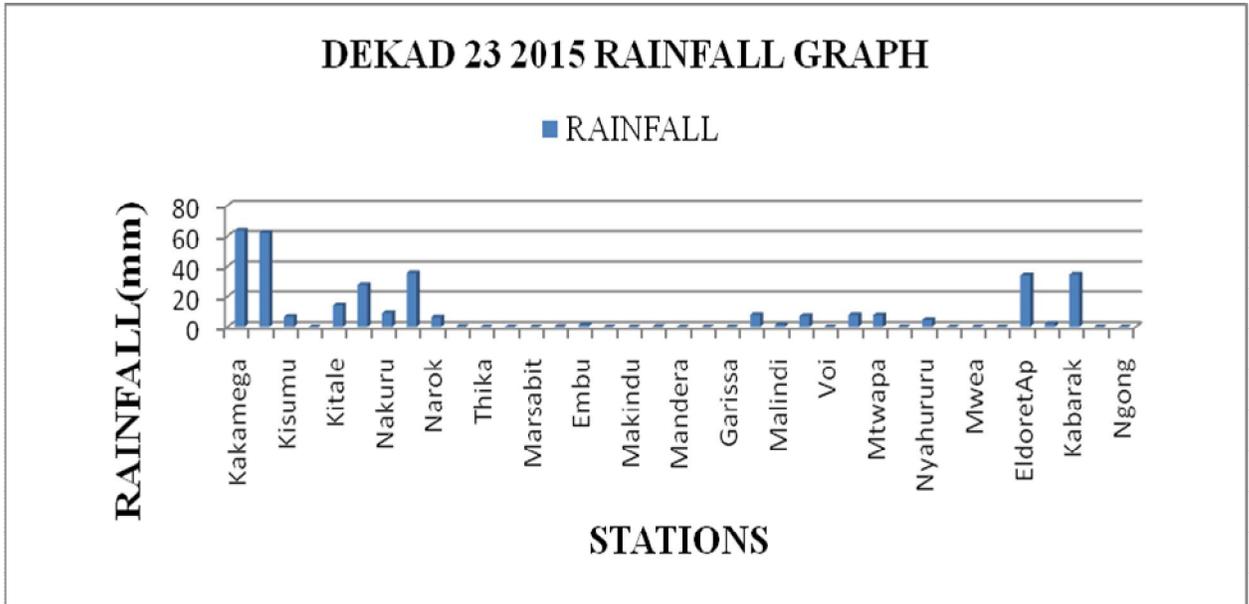


Figure 3.1: Dekadal rainfall totals for 11 –20 AUGUST 2015

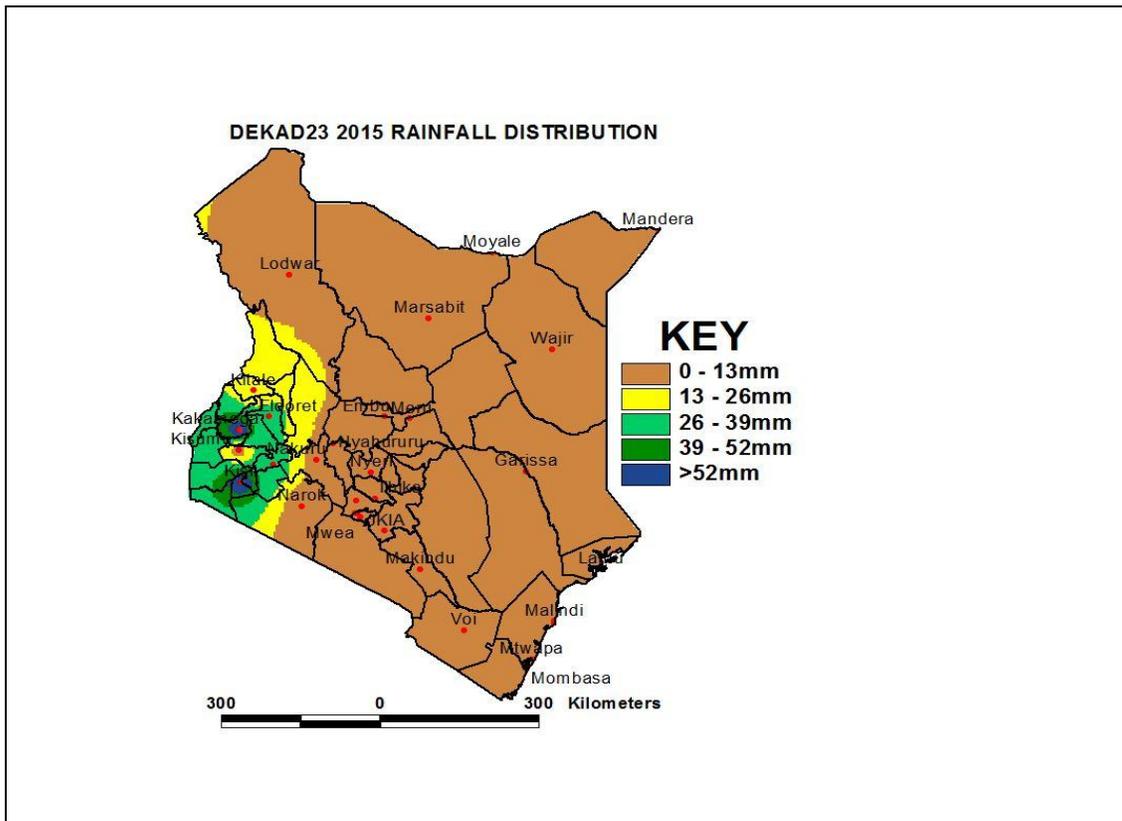


Figure 3.2: Dekadal rainfall distribution for dekad 23, 2015

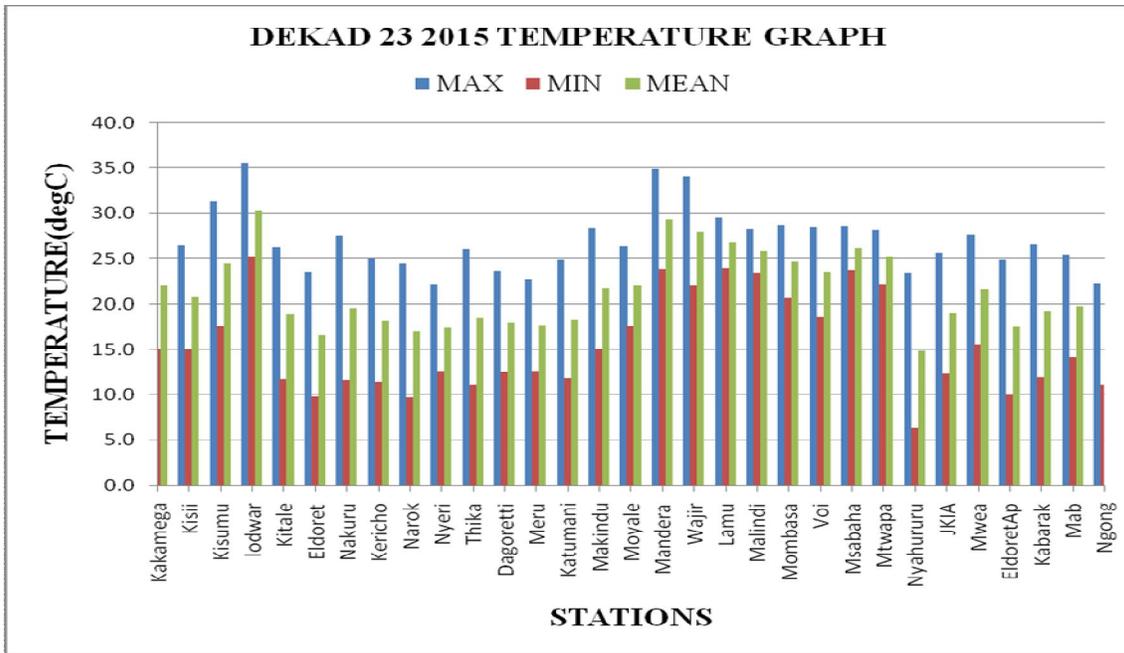


Figure 3.3: Maximum, Minimum and Average temperature for dekad 23, 2015

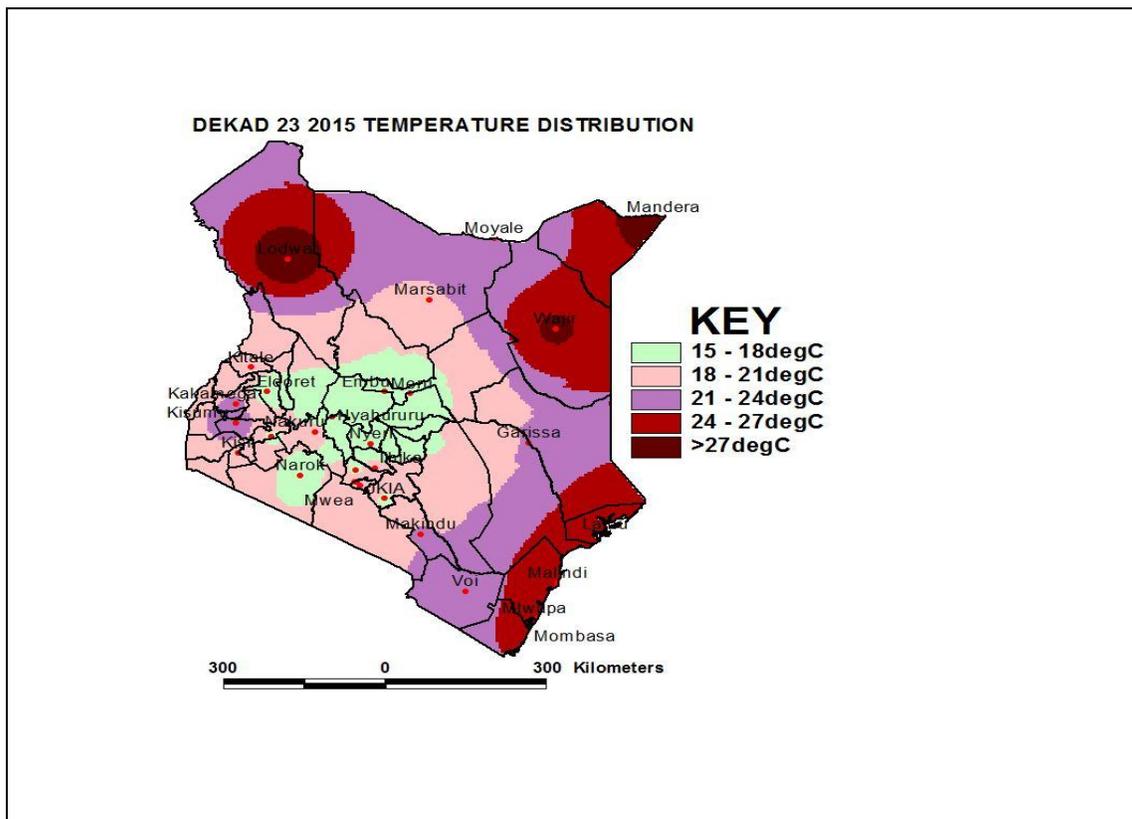


Figure 3.4: Mean temperature distribution for dekad 23, 2015

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-31 AUGUST, 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 showers and thunderstorms over few places on the first three days of the forecast period, followed by sunny intervals for the next two days then showers and thunderstorms over a few places for the next three days increasing to several thereafter.

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 forecast period.

The continued asunny 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)**, morning are expected to experience cool and cloudy conditions giving way to sunny intervals throughout the entire forecasting period. Afternoons will experience sunny intervals for the first six days of the forecast period, followed by occasional light showers over few places thereafter.

The morning rains will be of great benefit to the development of maize crops that are in the flowering and wax ripeness stages in places like Nyahururu and Nyeri respectively. The sunny conditions are beneficial to drying of maize for harvest in places like Embu.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo)**, are expected to experience mainly sunny intervals throughout the forecast period except on the sixth and seventh, where few places may experience light morning rains.

The sunny intervals continue to disadvantage 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 rains expected on the sixth and seventh days of the forecast period.

The continued sunny intervals will be of disadvantage for the growth of pasture for the animals kept in these places.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** Mornings are expected to experience mainly showers over few places, increasing to several places on the sixth and seventh day of the forecast period. Afternoons are expected to experience mainly sunny intervals throughout the forecast period.

The morning showers will continue benefiting the development of Maize that is at wax ripeness and maturity stages in places like Lamu and Msabaha respectively.

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

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