



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 25, 2014
01-10 SEPTEMBER, 2014**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was a decrease in intensity in rainfall activities during the dekad. The highest rainfall amount countrywide of 134.4 mm was received in Kericho station in Rift valley region compared to 164.0mm received in Kisii station in Nyanza Region in the previous dekad. The second highest rainfall of 85.1 mm was recorded at Kisii station in Nyanza region. Coastal region received the highest amount of rainfall of 60.9mm at Mtwapa station. Kakamega station in Western region reported the highest rainfall amount of 53.7 mm. Eastern region received the highest amount of rainfall of 36.8 mm at Meru station. Nyahururu station in central region recorded the highest rainfall amount of 36.8mm. Moi airbase station received the highest amount of 33.6mm in Nairobi region. In North eastern region the highest amount of rainfall of 30.2mm was reported at Lodwar station.

Maximum temperatures in most stations decreased. Wajir station in North Eastern region recorded the highest maximum temperature of 33.8°C compared to 35.2°C reported at the same station in the previous dekad. Nyahururu station in Central region recorded the lowest minimum temperature of 7.0°C.

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 25; 01-10 SEPTEMBER 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded rainfall amount of 53.7mm during the dekad. The mean air temperature and Pan Evaporation were 17.4°C and 32.7mm. There was no report on Sunshine duration.

Maize harvesting is over.

2.1.2 Kisii

The station recorded rainfall amount of 85.1mm. The mean air temperature and Pan Evaporation were 19.2°C and 39.7mm respectively. There was no record on Sunshine parameter.

Most farmers are weeding their beans and maize crops.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 24.0mm. Pan Evaporation recorded was 28.5mm. There was no report on mean air temperature and sunshine duration.

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

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 56.0mm. The average air temperature and pan evaporation reported were 16.6°C and 40.5mm respectively. There was no report on sunshine hours.

Maize was at flowering stage and in fair state, but expected yield is below normal due to insufficient rain received during the previous dekad.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 18.0mm. The average air temperature was 16.9°C. There was no report on pan evaporation and sunshine parameters

Some farmers are harvesting will others are preparing their for the next season.

2.3.2 Kabete

The station recorded rainfall amount of 21.7mm. Mean air temperature and pan evaporation were 16.5°C and 25.0mm respectively. No report on sunshine parameter.

Harvesting is over and land preparation is underway.

2.3.3 Thika

The station received rainfall amount of 28.5mm. The mean air temperature and Pan Evaporation were 18.5°C and 25.5mm respectively. There was no report on sunshine duration.

Land preparation was still going on.

2.3.4. Nyahururu

The station received rainfall amount of 36.8mm. The mean air temperature and pan evaporation recorded were 13.4°C and 32.3mm respectively. There was no report on sunshine duration.

Maize was at flowering stage and in fair state and normal yield is expected. Potatoes were at emergency stage and in fair state.

2.3.5. Dagoretti

The station reported rainfall amount of 15.9mm. The average air temperature and pan evaporation recorded were 17.0°C and 25.9mm respectively, there was no Sunshine report.

No report on phenological observations.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded rainfall amount of 46.3 mm. The average air temperature and Pan Evaporation recorded were 17.7°C and 50.8mm respectively. There was no Sunshine report.

Land preparation was still under way for next season.

2.4.2 Embu

The station recorded rainfall amount of 24.7mm. Mean air temperature and Pan Evaporation were 13.5 °C and 29.2mm respectively. There was no sunshine duration.

Land preparation underway.

2.4.3 Katumani (Machakos)

The station received rainfall amount of 9.7mm. The average air temperature reported was 18.2°C. There was no report on pan evaporation and Sunshine duration.

No phenological report.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 45.8mm. The average air temperature and Pan Evaporation recorded were 25.9°C and 34.3mm respectively. There was no report on sunshine duration.

Maize harvesting is over.

2.5.2 Mtwapa

The station received rainfall amount of 60.9mm. The average air temperature and Pan evaporation reported were 25.2°C and 43.3mm respectively. There was no report on Pan Evaporation and Sunshine duration.

Maize was still being harvested though adversely affected by insects, birds, animals, diseases mainly maize stalk borer and excessive weed growth. Mangoes were at harvesting stage and in fair state hence normal yield is expected.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

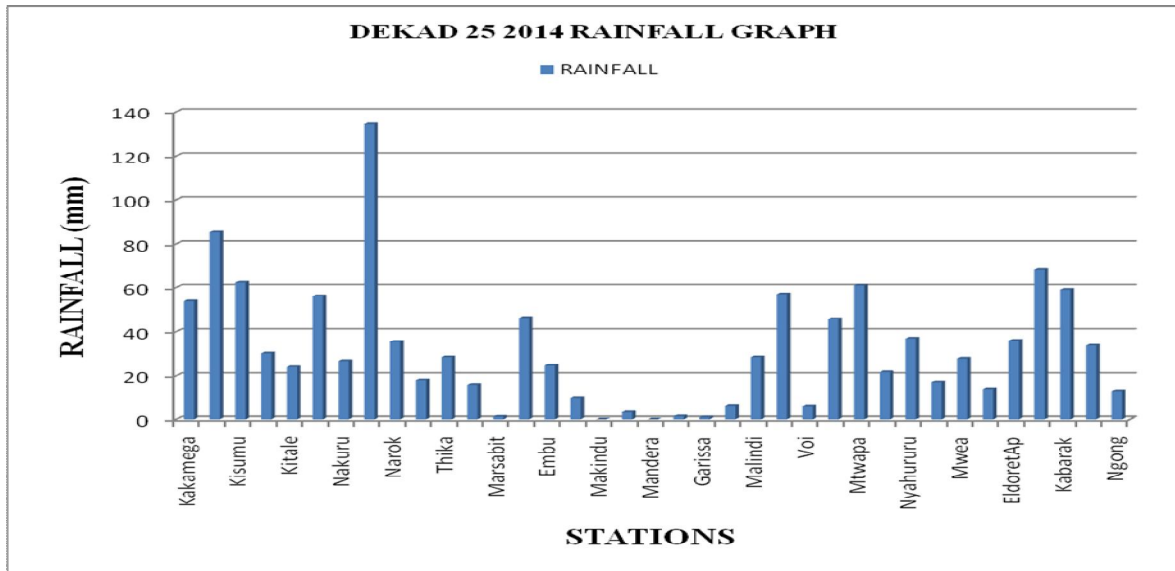


Figure 3.1: Dekadal rainfall totals for the period 1st to 10th September, 2014

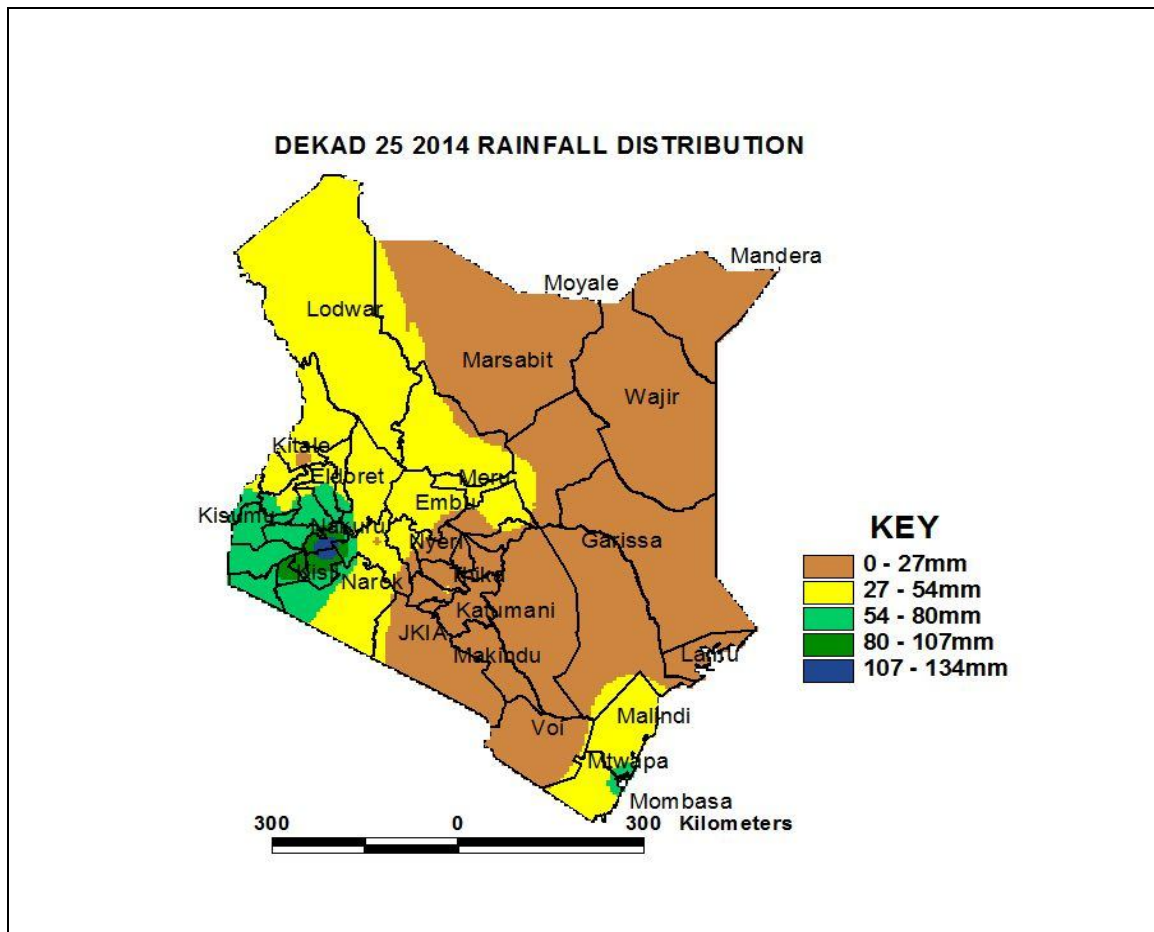


Figure 3.2: Dekadal rainfall distribution for the period 1st to 10th September, 2014

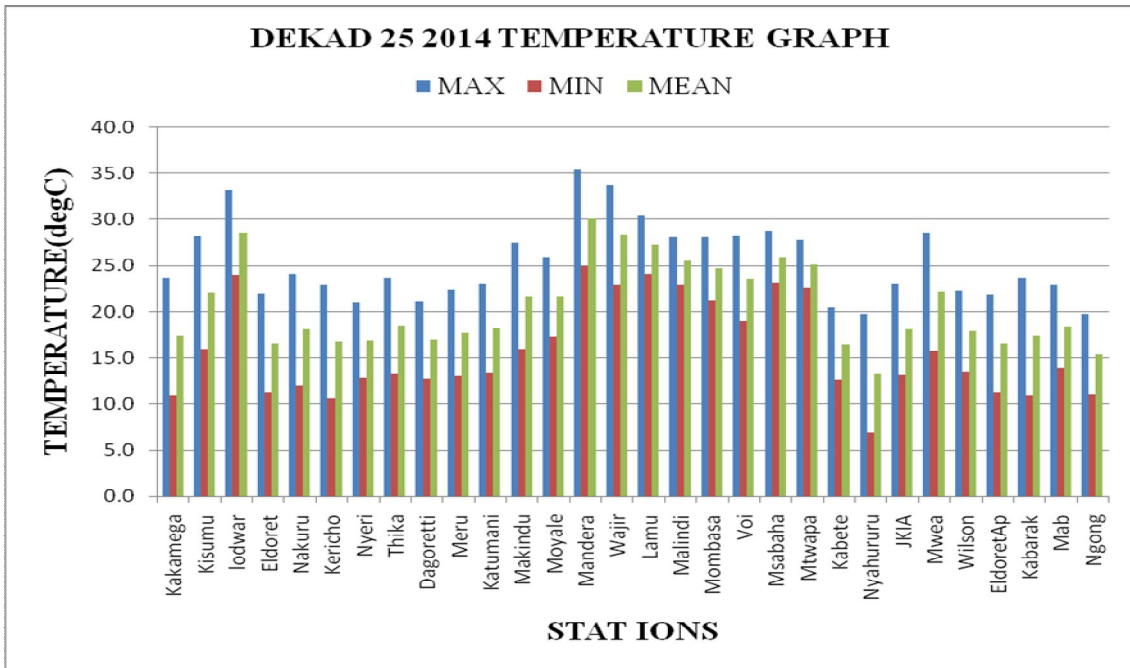


Figure 3.3: Maximum, Minimum and Average temperature for dekad 25, 2014

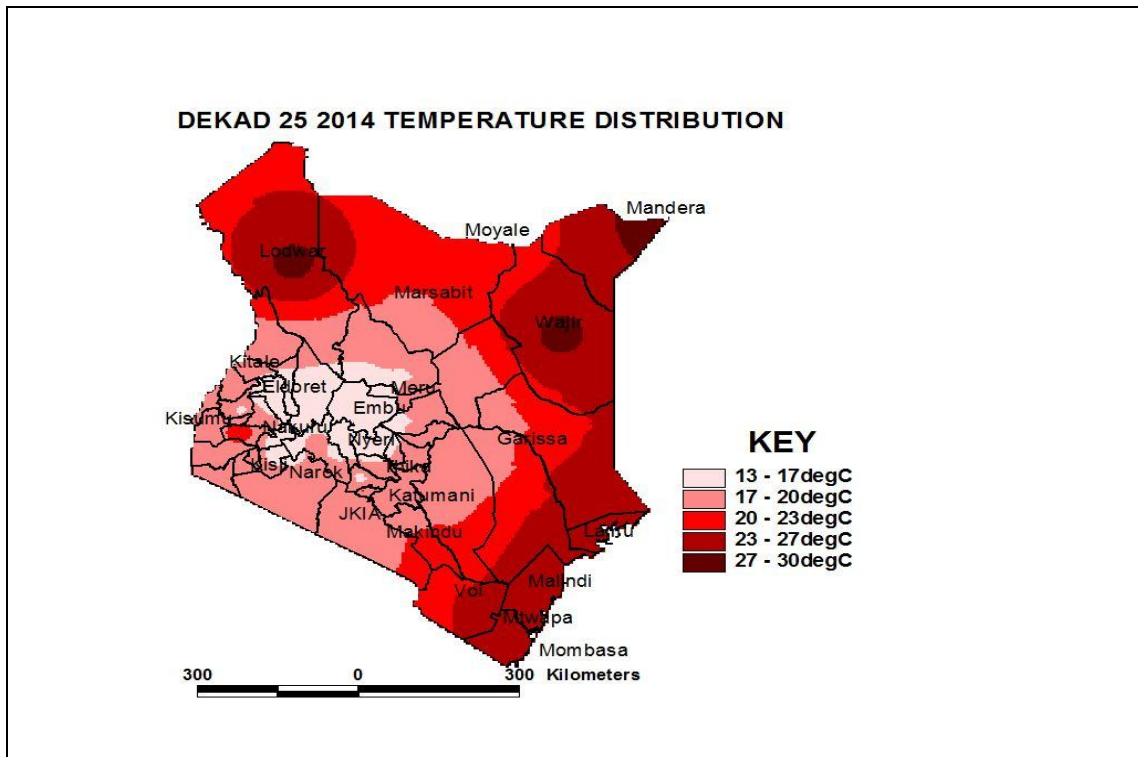


Figure 3.4: Mean temperature distribution for dekad 25, 2014

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 11TH TO 20TH SEPTEMBER, 2014

- ❖ **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),** are expected to experience mainly sunny intervals in the morning with rains over few places on the seventh day of the forecast period while the afternoons are expected to experience showers and thunderstorms over few places for the entire forecast period.

The expected showers will continue to improve the vegetative growth of the maize crop, which is still in its emergence and flowering stages in places like Kisii and Eldoret respectively.

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience mainly sunny intervals throughout the forecast period with rains over few places in the afternoon on the seventh day of the forecast period.

The sunny conditions will have negative impact on the pasture and vegetation in this region.

- ❖ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga),** are expected to experience cloudy early mornings, breaking into to sunny intervals for the entire forecast period except on the seventh day where rains over few places are expected. The afternoons will have mainly sunny intervals for the first six days followed by showers over few places for rest of the forecast period.

The projected sunny conditions are suitable for land preparation going on in most farms, while the expected showers will continue to improve the growing conditions for the maize crop, which is in flowering stage in places like Nyahururu.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience sunny intervals in the morning for the first three days followed by rains over few places for the next three days breaking into sunny interval for the rest of the forecast period while afternoons are expected to have sunny intervals for the entire forecast period.

The expected rains will help replenish the pasture and general vegetation in the region.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience sunny intervals in the morning throughout the forecast period while the afternoons are expected to experience mainly sunny intervals for the entire forecast period, with showers over few places on the last day of the forecast period.

The expected sunny conditions will have negative impacts on the pasture and general vegetation in the region.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** are expected to experience mainly showers over few places in the morning for the entire forecast period except on the first day of the forecast period while the afternoons will experience sunny intervals throughout the entire forecast period.

The morning showers will benefit the development of mangoes that are in fruit setting, and the sunny intervals are beneficial to maize harvesting and land preparation in places like Msabaha and Mtwapa.

For feedback or further guidance, please contact:

Director,
Kenya Meteorological Service,
Agrometeorological 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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