



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 26, 2014
11-20 SEPTEMBER, 2014**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was a drastic reduction both in intensity and space in rainfall activities during the dekad. The highest rainfall countrywide was received in western region with Kakamega station recording 52.8mm. The second highest rainfall amount of 40.3mm was received in Nyanza region at Kisii station. Coastal region received the highest amount of rainfall of 31.4mm at Mombasa station. Nakuru station in Rift valley region reported the highest amount of rainfall of 19.5mm. In Eastern region, Embu station received the highest amount of rainfall 18.4mm. Central region recorded the highest rainfall amount of 5.7mm at Nyeri station. Moyale station in North Eastern region received the highest amount of rainfall of 2.8mm, while Ngong station in Nairobi region reported the highest rainfall amount of 1.6mm.

There was a drastic increase and decrease in maximum and minimum temperatures respectively in most stations. Lodwar station in North Eastern region recorded the highest maximum temperature of 35.6°C compared to 33.8°C reported at Wajir station in the same region in the previous dekad. Nyahururu station in Central region still recorded the lowest minimum temperature of 5.2°C compared to 7.0°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 26; 11-20 SEPTEMBER 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded rainfall amount of 52.8mm during the dekad. The mean air temperature and Pan Evaporation were 21.2°C and 48.3mm respectively. There was no report on Sunshine duration.

Beans were at emergence stage.

2.1.2 Kisii

The station recorded rainfall amount of 40.3mm. The mean air temperature and Pan Evaporation were 15.7°C and 40.3mm respectively. There was no record on Sunshine parameter.

Maize and beans crops were at emergence and flowering stages respectively, both in fair state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 4.5mm. There was no report on mean air temperature, Pan Evaporation and sunshine duration.

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

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 0.01. The average air temperature and pan evaporation reported were 16.5°C and 53.0mm 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 5.7mm. The average air temperature was 18.0°C. There was no report on pan evaporation and sunshine parameters

Farmers have completed harvesting maize and are preparing land for the short rains.

2.3.2 Kabete

The station recorded rainfall amount of 1.01mm. Mean air temperature and pan evaporation were 18.0°C. No report on Pan Evaporation and sunshine parameter.

Land preparation is underway.

2.3.3 Thika

No rainfall amount received during the dekad. The mean air temperature and Pan Evaporation were 20.4°C and 46.0mm respectively. There was no report on sunshine duration.

Potatoes are being planted.

2.3.4. Nyahururu

No rainfall amount recorded at the station during the dekad. The mean air temperature and pan evaporation recorded were 14.0°C and 49.5mm 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 1.3mm. The average air temperature and pan evaporation recorded were 19.1°C, and there was no Pan evaporation and Sunshine report.

No report on phenological observations.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded rainfall amount of 2.2 mm. The average air temperature and Pan Evaporation recorded were 18.8°C and 51.4mm respectively. There was 5.1hrs of Sunshine duration reported.

Land preparation was still underway for the next season.

2.4.2 Embu

The station recorded rainfall amount of 18.4mm. Mean air temperature and Pan Evaporation were 14.0°C and 40.9mm respectively. There was no sunshine duration.

Land preparation is underway for the next season.

2.4.3 Katumani (Machakos)

The station received rainfall amount of 3.9mm. The average air temperature reported was 19.6°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 23.7mm. The average air temperature and Pan Evaporation recorded were 26.0°C and 42.2mm respectively. There was no report on sunshine duration.

Mangoes were at 100% fruit setting stage and in good state.

2.5.2 Mtwapa

The station received rainfall amount of 16.1mm. The average air temperature and Pan evaporation reported were 25.3°C and 46.1mm respectively. There was no report on Sunshine duration.

Maize was still being harvested though adversely affected by maize stalk borer and normal yield is expected for the crop. Land preparation is underway for short rain season.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

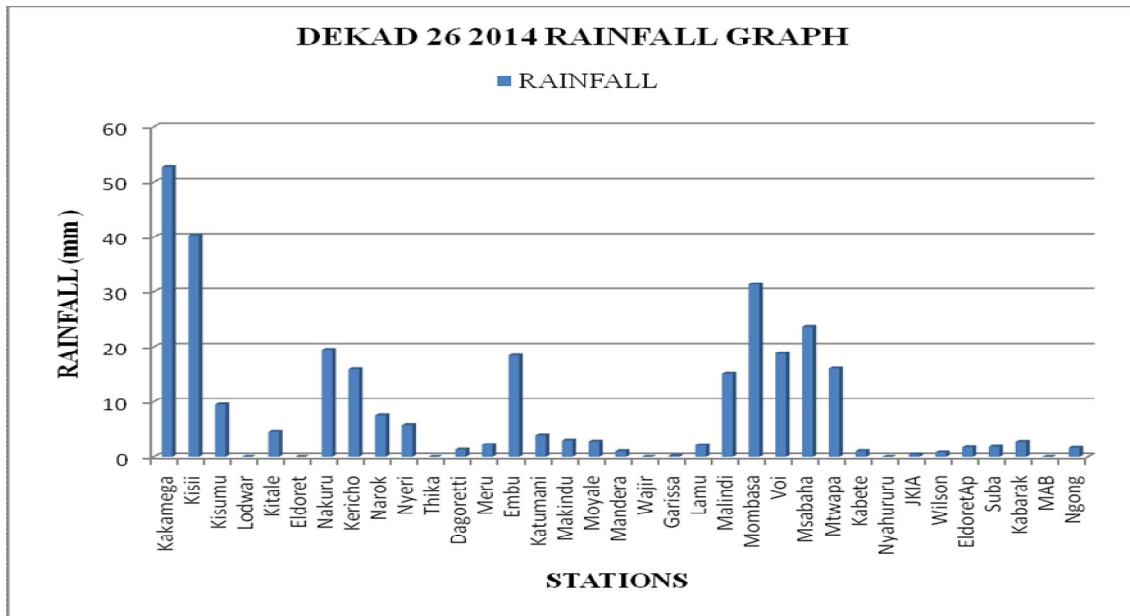


Figure 3.1: Dekadal rainfall totals for 11- 20 SEPTEMBER 2014

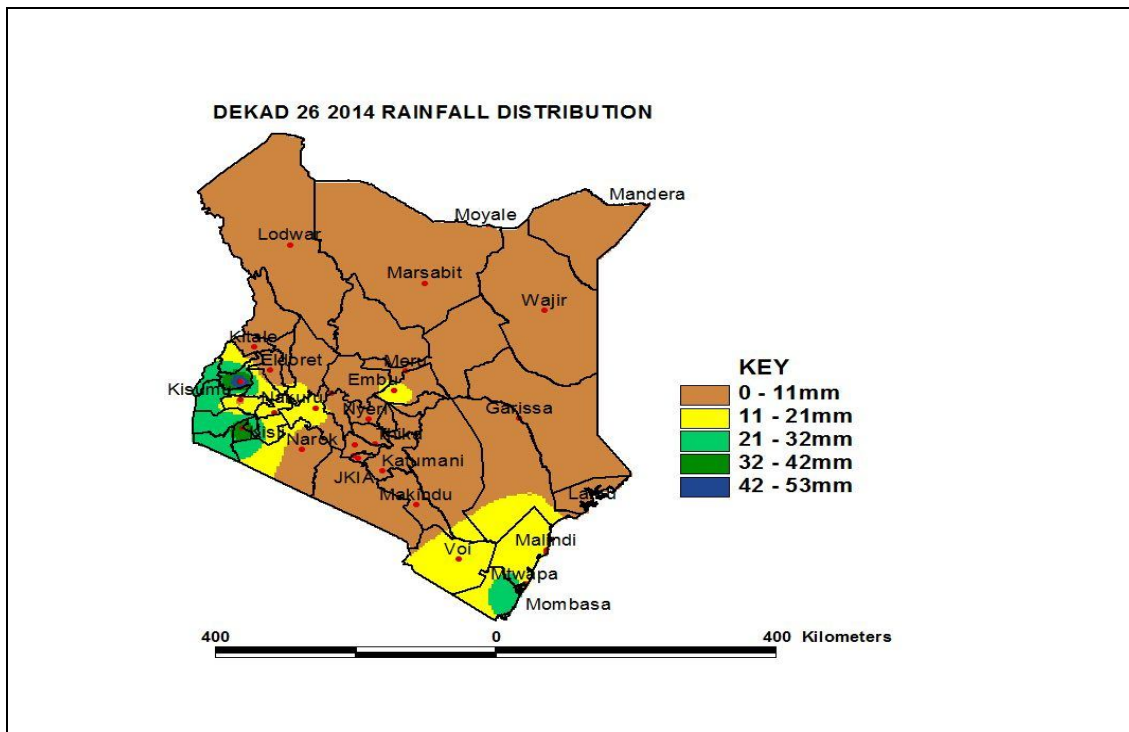


Figure 3.2: Dekadal rainfall distribution for dekad 26, 2014

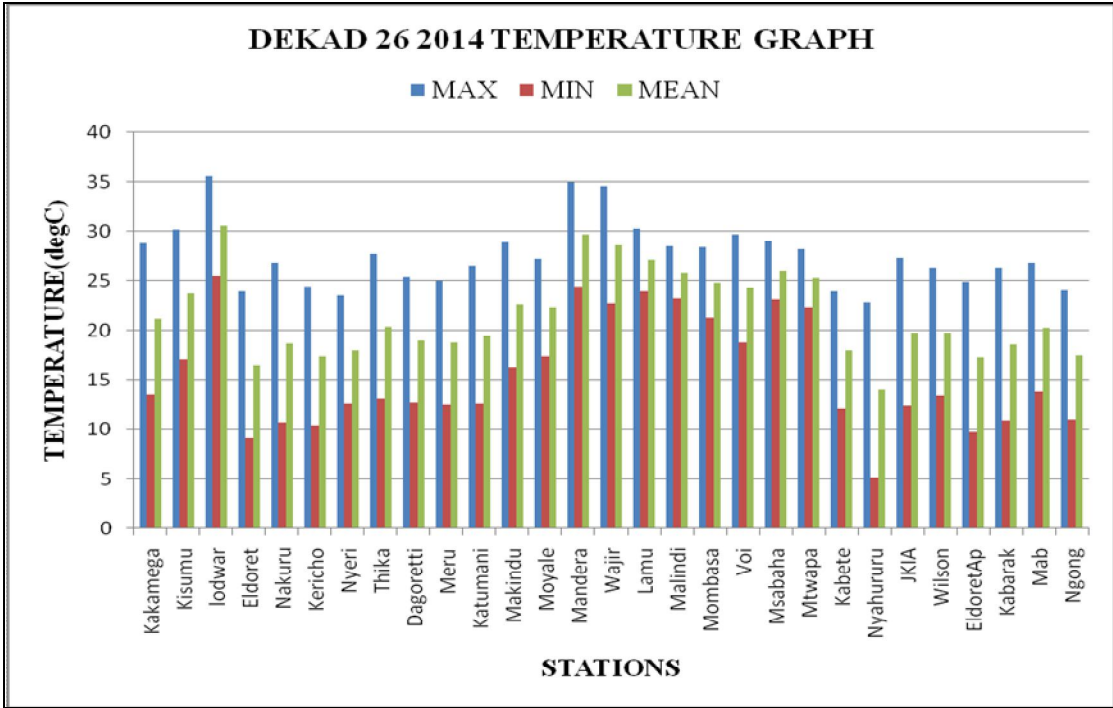


Figure 3.3: Maximum, Minimum and Average temperature for dekad 26, 2014.

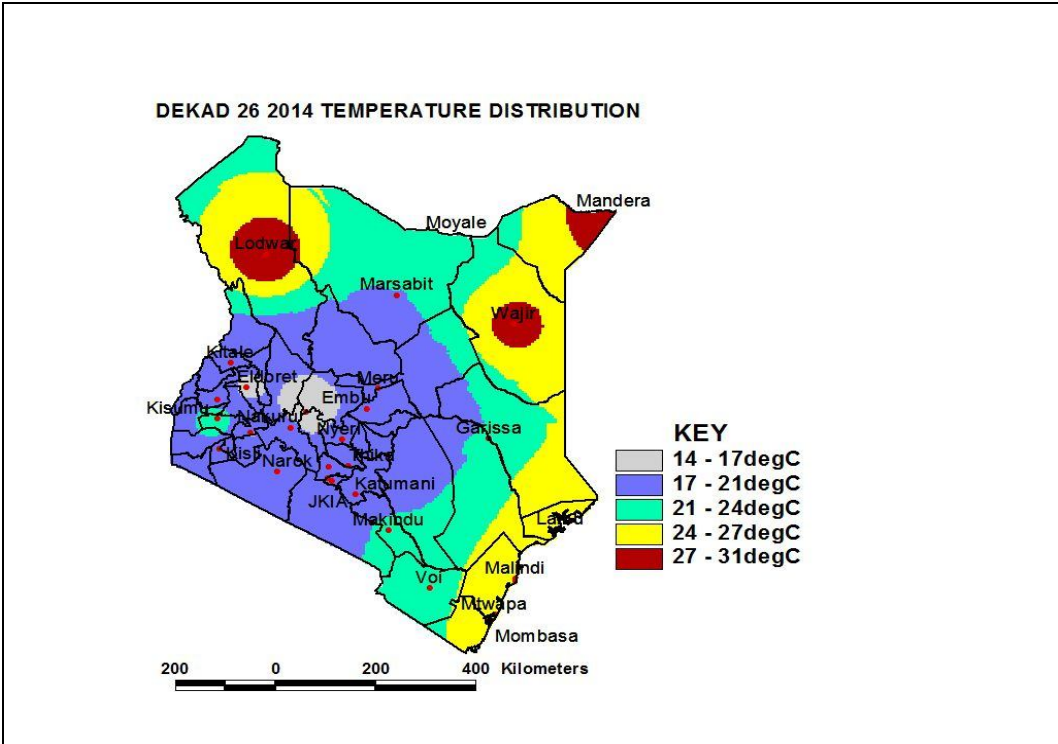


Figure 3.4: Mean temperature distribution for dekad 26, 2014

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-30 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 for the entire forecast period. Afternoons are expected to have showers and thunderstorms over few places for the entire forecast period.

The showers continue to benefit the growth of the maize and Beans crops, which are still in their 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 the whole day throughout the forecast period.

The sunny conditions will continue to negatively impact 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 mainly sunny intervals throughout the day for the entire forecast period with occasional showers over few high ground places in the afternoons.

The sunny conditions are beneficial to the land preparation that is still going on in most farms, while the showers continue to benefit the flowering maize crop in places like Nyahururu.

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

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

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience sunny intervals in the entire forecast period.

The sunny conditions will have negative impacts to the pasture and 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 last five days of the forecast period. Afternoons are expected to 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.

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