



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL
BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 27,
2014
21-30 SEPTEMBER, 2014**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

During this dekad the rainfall activities realized a drastic increase in intensity specifically in Nyanza, Western and Rift valley regions, with Kisii, Kakamega and Kericho stations reporting 120.2mm, 105.4mm, and 102.1mm respectively. Coastal region received the highest amount of rainfall of 4.7mm at Mtwapa station. Nairobi region reported the highest amount of rainfall of 3.8mm at JKIA. Embu station in Eastern region, recorded the highest amount of rainfall of 1.3mm. Central region reported the highest rainfall amount of 0.7mm at Thika station while Garissa station in North Eastern region reported the highest amount of rainfall of 0.3mm.

Maximum temperatures continued to increase while minimum temperatures showed a tremendous increase compared to the previous dekad where most stations were on a decreasing trend. North Eastern region continued to record the highest maximum temperature of 36.5°C at Mandera station compared to 35.6°C reported at Lodwar station in the same region in the previous dekad. Nyahururu station in Central region still recorded the lowest minimum temperature of 5.7°C compared to 5.2°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 27; 21-30
SEPTEMBER 2014**

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded a drastic rainfall increment of 105.4mm compared to 52.8mm in the previous dekad. The mean air temperature and Pan Evaporation were 20.7°C and 48.9mm respectively. There was no report on Sunshine duration.

Beans were still at emergence stage.

2.1.2 Kisii

The station recorded an increase in rainfall amount of 120.2mm compared to 40.3mm recorded in the previous dekad. The mean air temperature and Pan Evaporation were 22.0°C and 46.1mm respectively. There was no record on Sunshine parameter.

Maize and beans crops were still at emergence and flowering stages respectively and in fair state. Most farmers are weeding their farms while a few are still planting.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 21.2mm. Pan Evaporation recorded was 34.6mm. There was no report on mean air temperature and sunshine duration.

Maize harvesting is in progress.

2.2.2 Eldoret-Kapsoya

Maize was at flowering stage and in poor state due to insufficient rainfall during the dekad hence below normal yield is expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 0.02mm. The average air temperature was 18.2°C. There was no report on pan evaporation and sunshine parameters

Land preparation for the next season continues.

2.3.2 Kabete

The station recorded rainfall amount of 1.2mm. The Mean air temperature recorded was 17.3°C. No report on Pan Evaporation and sunshine parameter.

Most farmers are still preparing their farms while a few have started planting.

2.3.3 Thika

The station recorded rainfall amount of 0.7mm. The mean air temperature and Pan Evaporation were 20.2°C and 39.1mm respectively. There was no report on sunshine duration.

Most farmers have finished land preparation for the next season.

2.3.4. Nyahururu

The station continued to report dry conditions. The mean air temperature recorded was 14.6°C. There was no report on Pan Evaporation and sunshine duration.

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

2.3.5. Dagoretti

The station reported rainfall amount of 1.9mm. The average air temperature and pan evaporation recorded were 19.0°C and 45.4mm 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 0.9mm. The average air temperature and Pan Evaporation recorded were 19.3°C and 46.9mm respectively. There was no Sunshine duration reported.

Farmers have finished land preparation in readiness for the onset of short rains.

2.4.2 Embu

The station recorded rainfall amount of 1.3mm. Mean air temperature and Pan Evaporation were 14.7°C and 35.8mm respectively. There was no sunshine duration.

Land preparation is still underway for the next season.

2.4.3 Katumani (Machakos)

The station reported dry conditions. The average air temperature reported was 19.5°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 0.02mm. The average air temperature and Pan Evaporation recorded were 26.5°C and 47.1mm respectively. There was no report on sunshine duration.

Mangoes were at 100% fruit setting stage and in good state. Land preparation for the next season is underway.

2.5.2 Mtwapa

The station received rainfall amount of 4.7mm. The average air temperature and Pan evaporation reported were 25.6°C and 54.7mm respectively. There was no report on Sunshine duration.

Mangoes were at flowering stage. Land preparation for the next season is underway.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

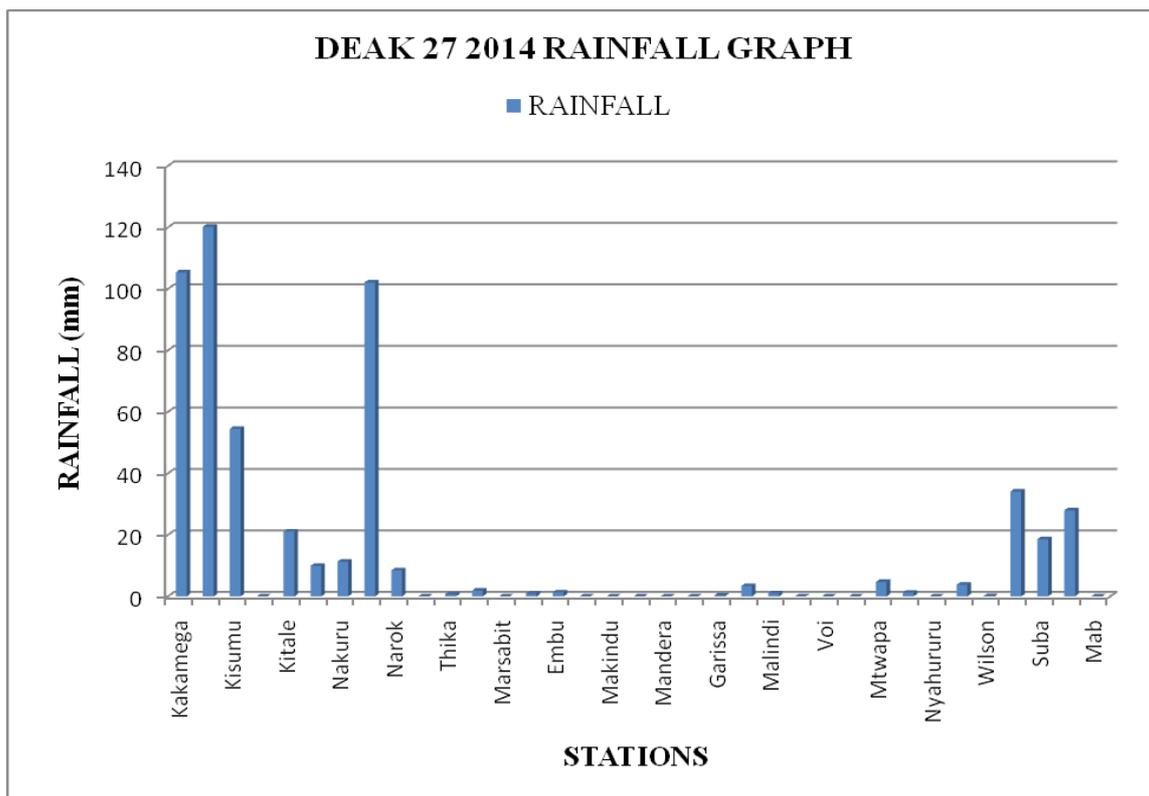


Figure 3.1: Dekadal rainfall totals for 21- 30 SEPTEMBER 2014

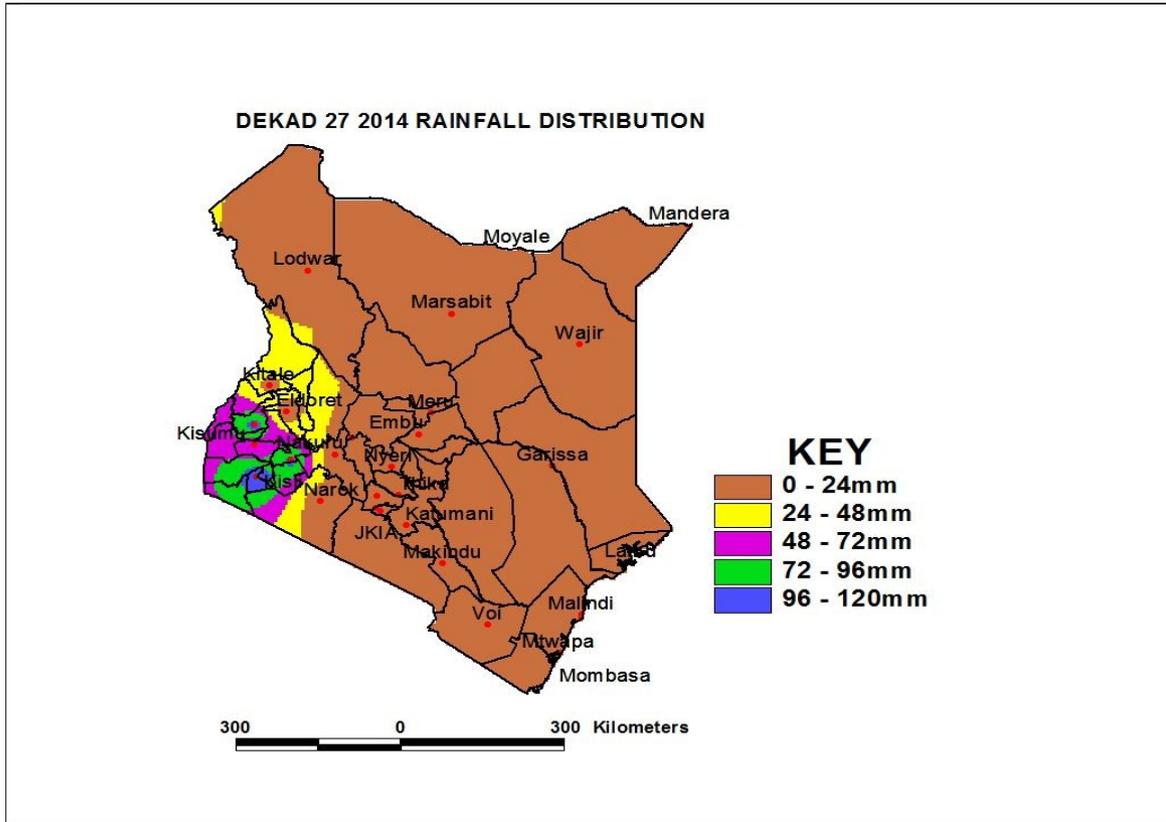


Figure 3.2: Dekadal rainfall distribution for dekad 27, 2014

2014

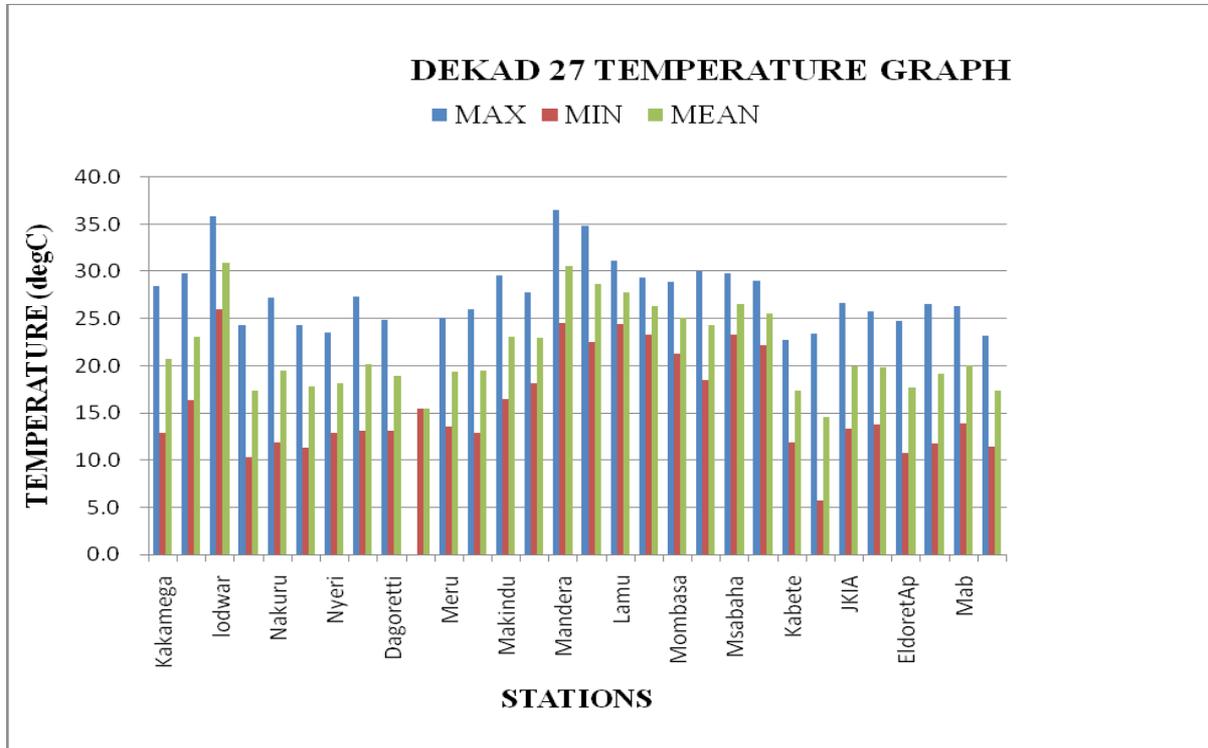


Figure 3.3: Maximum, Minimum and Average temperature for dekad 27, 2014.

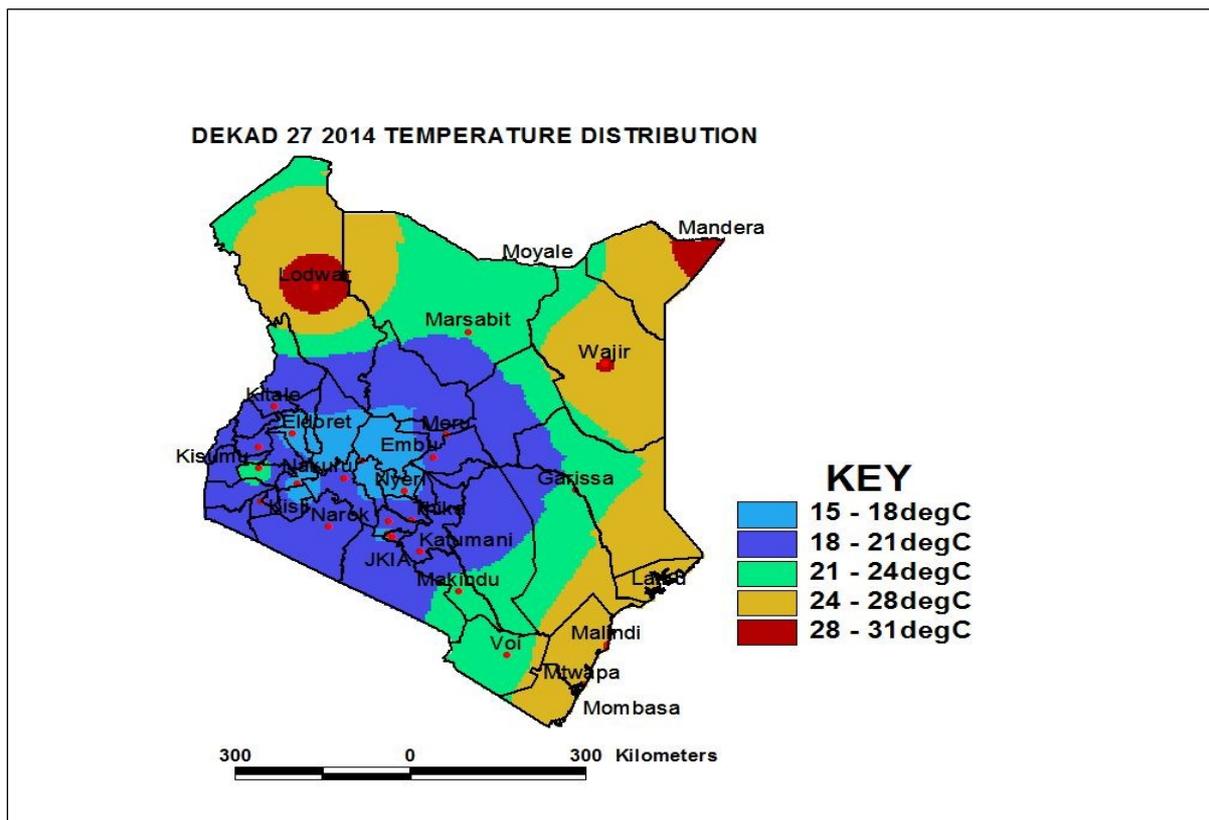


Figure 3.4: Mean temperature distribution for dekad 27, 2014

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;

1-10 OCTOBER 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 several places for the first three day reducing to few places thereafter.

The showers continue to benefit the growth of maize and Beans crops, which are still in their emergence and flowering stages in most farms.

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

The sunny condition continues to negatively impact pasture and vegetation 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 mainly sunny intervals in the morning for the entire forecast period. Afternoons are expected to experience mainly sunny intervals with showers over few places for the entire forecast period.

The sunny conditions are beneficial to the land preparation that is still going on in places like Meru, 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 continue to have negative impacts to the pasture and vegetation in the region.

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

The sunny conditions will continue to 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 sunny interval in the morning for the first four days followed by sunny intervals and showers over few places for rest of the forecast period. Afternoons are expected to experience mainly sunny intervals throughout the entire forecast period.

The morning showers are of great importance for the development of mangoes that are in fruit setting, and the sunny intervals are beneficial to land preparation in places like Msabaha and Mtwapa.

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