



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 11, 2015
11-20 APRIL, 2015**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities continued to increase both in intensity and spatial distribution during the dekad in most stations countrywide. The highest rainfall amount of 141.5mm was recorded at Kakamega station in Western region compared to 124.0mm received at Kitale station in Rift Valley region in the previous dekad. The second highest rainfall amount of 134.1mm was recorded at Embu station in Eastern region. Rift Valley region reported the highest rainfall amount of 92.8mm at Eldoret Airport station. Suba station in Nyanza region recorded the highest rainfall amount of 73.3mm. Coastal region reported the highest rainfall amount of 72.8mm at Voi station. In North Eastern region, Marsabit station recorded the highest rainfall amount of 54.9mm. Thika station in Central region received the highest rainfall amount of 49.4mm. Nairobi region reported the highest rainfall amount of 43.2mm at Dagoretti station.

Maximum and minimum temperatures were both on a decreasing trend during the dekad. North-eastern region continued to record the highest maximum temperature of 35.6°C at Mandera station compared to 35.4°C reported at Lodwar station in the previous dekad. The lowest Minimum temperature of 9.0°C was recorded at Nyahururu station in central region compared to 9.9°C reported in the same station 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 11: 11- 20 APRIL, 2015

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received rainfall amount of 141.5mm during the dekad. The mean air temperature was 22.1°C. There was no record on sunshine duration and pan evaporation.

Maize and beans were at emergence state.

2.1.2 Kisii

The station reported rainfall amount of 58.7mm. The mean air temperature and pan evaporation recorded were 20.2°C and 3.1mm respectively. There was no report on sunshine parameter.

Maize and beans were at emergence stage and in fair state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station reported rainfall amount of 28.4mm. The mean air temperature and pan evaporation recorded were 20.5°C and 3.6mm respectively. There was no report on sunshine duration.

Maize and Beans were at emergence stage and in good state.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 72.7mm. The mean air temperature and pan evaporation recorded were 18.1°C and 5.6mm respectively. There was no record on sunshine duration.

Maize is at emergence stage and in fair state.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 18.5mm. The average air temperature was 19.6°C. There was no report on pan evaporation and sunshine parameters.

Both Maize and beans were at emergence stage and in fair state.

2.3.2 Kabete

The station received rainfall amount of 32.7mm. The pan evaporation recorded was 4.0mm. There was no report on the mean air temperature and sunshine duration.

Planting is still going on.

2.3.3 Thika

The station recorded rainfall amount of 49.4mm. The mean air temperature and pan evaporation recorded were 22.3°C and 4.3mm respectively. There was no report on sunshine duration.

Maize and beans were at emergence stage and in fair state.

2.3.4 Nyahururu

The station reported rainfall amount of 12.9mm. The mean air temperature recorded was 16.2°C. There was no report on pan evaporation and sunshine duration.

Land preparations and planting is going on in some farms.

2.3.5. Dagoretti

The station reported rainfall amount of 43.2mm. The pan evaporation recorded was 4.6mm. There was no report on mean air temperature, pan evaporation and sunshine duration.

Maize and Beans were at emergence stage and in good state.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station received rainfall amount of 134.1mm. There was no report on mean air temperature, pan evaporation and sunshine parameters.

Maize and beans were both at emergence stage and in fair state.

2.4.2 Meru

The station received rainfall amount of 81.6mm. The mean air temperature recorded was 19.4°C. There was no report on pan evaporation and sunshine duration.

Both maize and beans were at emergence stage and in fair state.

2.4.3 Katamani (Machakos)

The station reported rainfall amount of 11.0mm. The average air temperature and pan evaporation were 21.1°C and 5.0mm respectively. There was no report on Sunshine duration.

Maize and beans were at emergence stage.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 20.5mm. The average air temperature and pan evaporation recorded were 29.1°C and 6.1mm respectively. There was no report on sunshine duration.

Maize was at emergence stage and in fair state.

2.5.2 Mtwapa.

The station received rainfall amount of 64.1mm. The average air temperature and pan evaporation recorded were 28.0°C and 5.0mm respectively. There was no report on Sunshine duration.

Mangoes were at fruit setting stage and in fair state.

3.0 ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

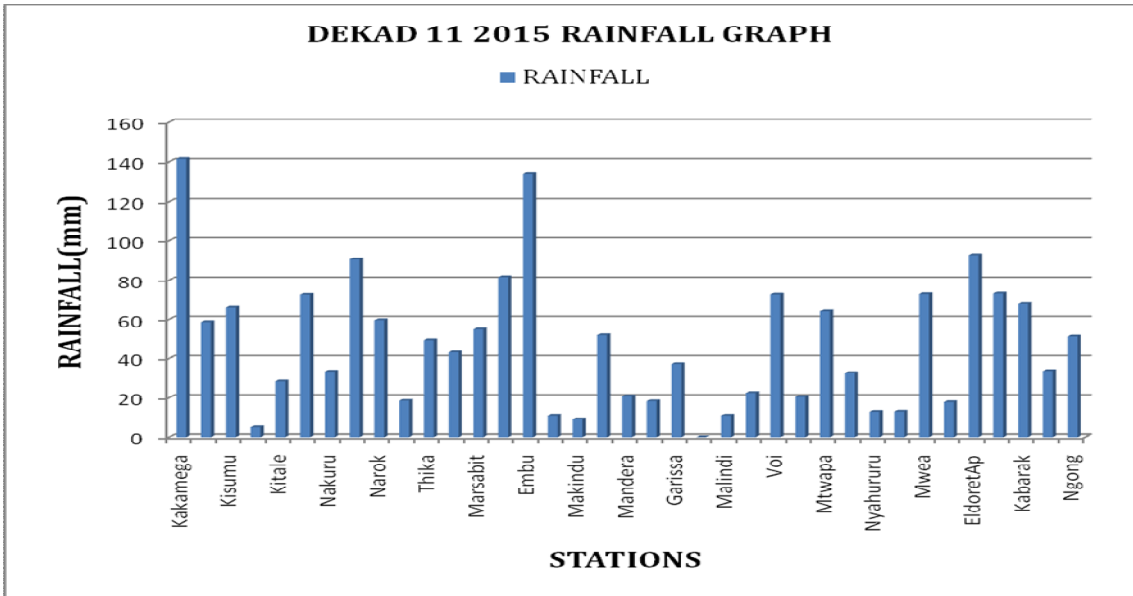


Figure 3.1: Dekadal rainfall totals for 11 – 20 APRIL 2015

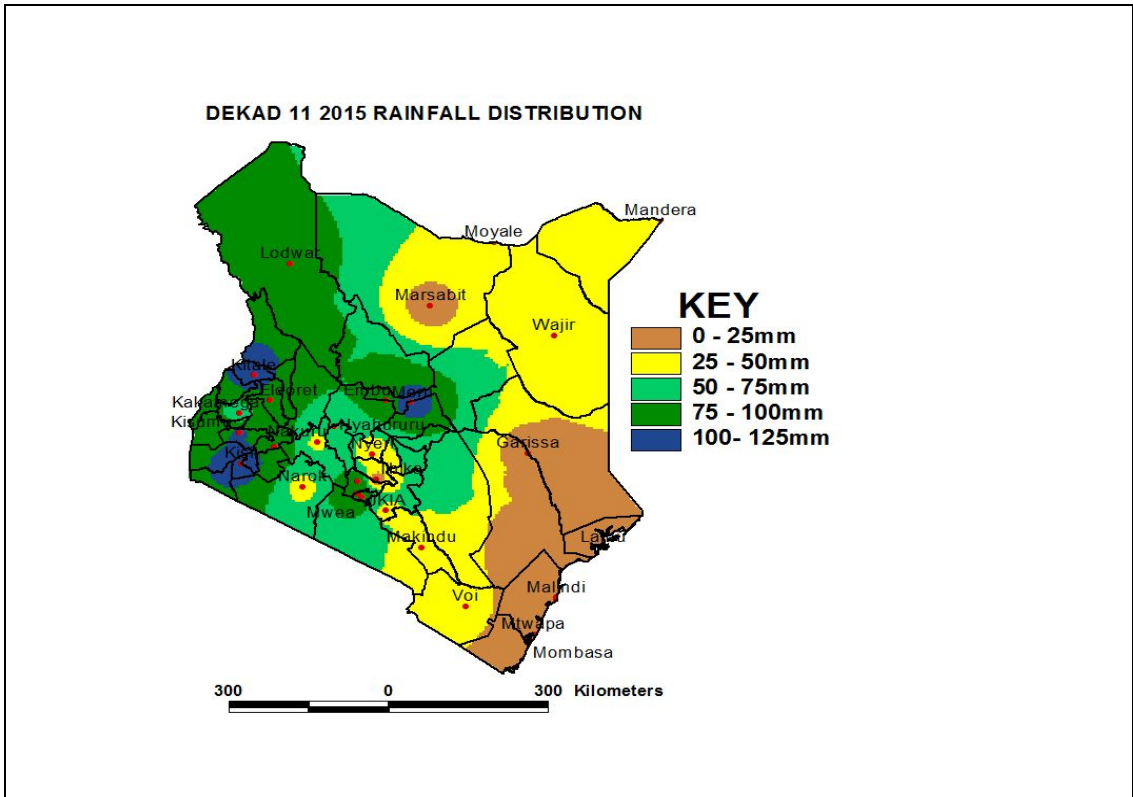


Figure 3.2: Dekadal rainfall distribution for dekad 11, 2015

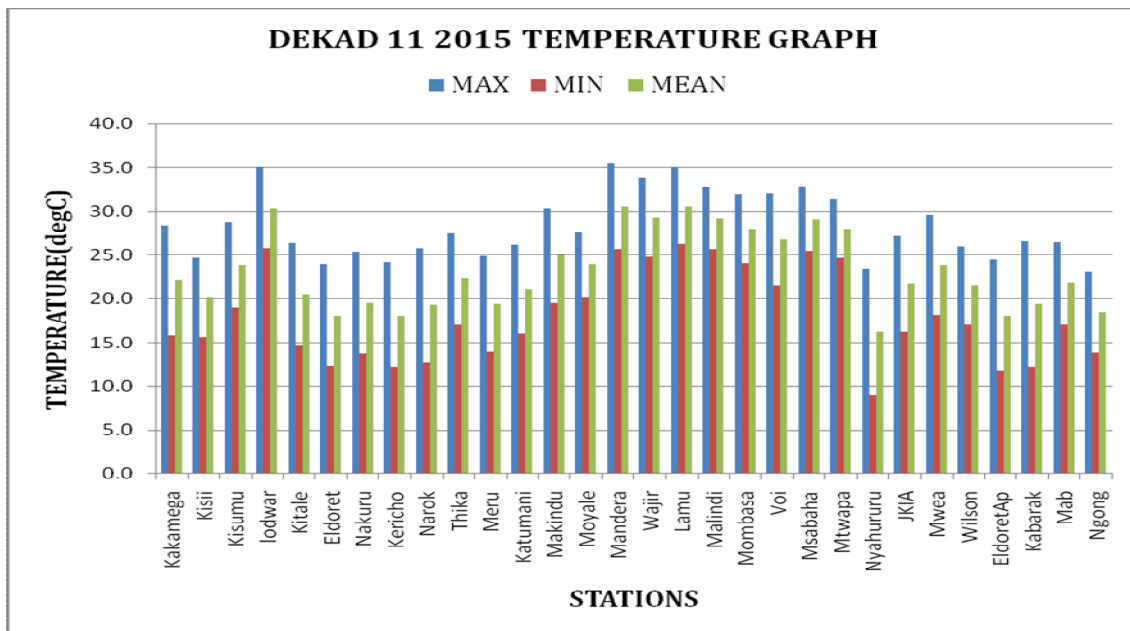


Figure 3.3: Maximum, Minimum and Average temperature for dekad 11 2015

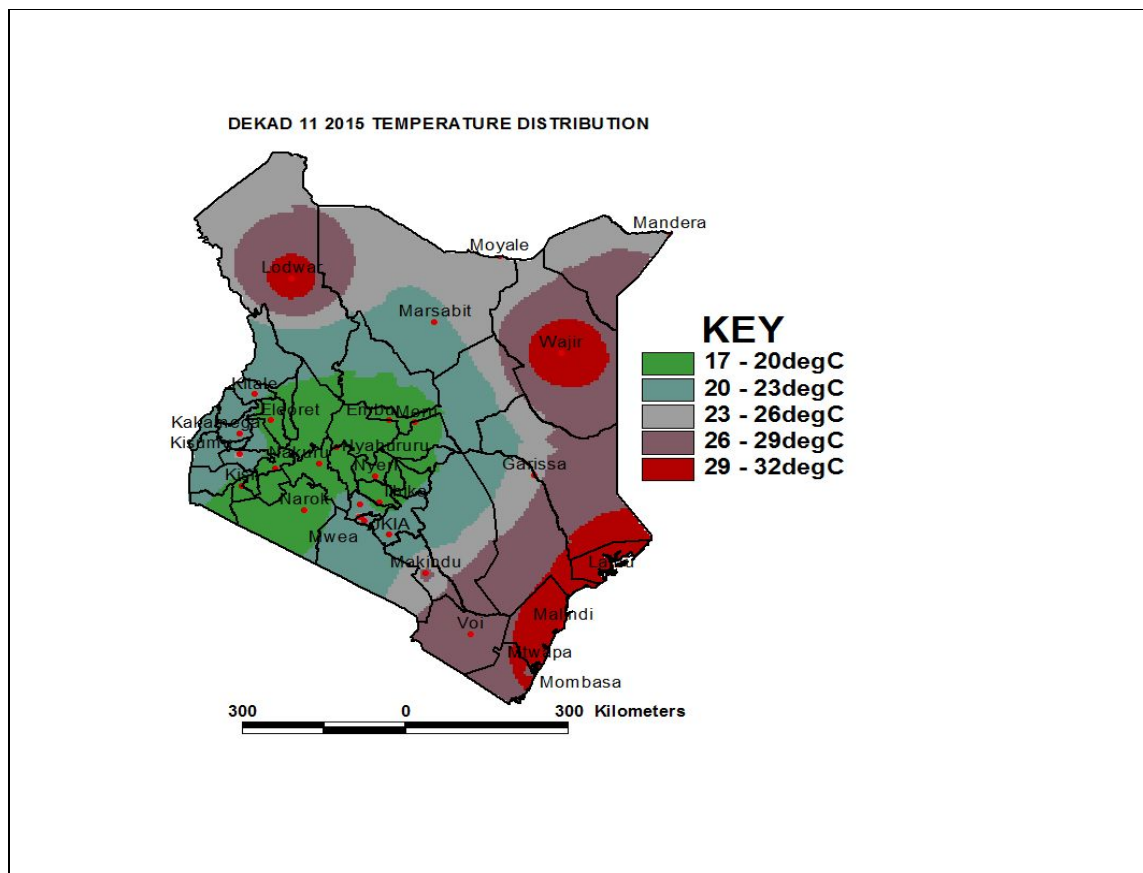


Figure 3.4: Mean temperature distribution for dekad 11 2015

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-30 APRIL, 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),** are expected to experience sunny intervals in the morning with occasional rains over few places in the second half of the forecast period. Afternoon/evening showers and thunderstorms over few places are expected on the first two days increasing to several places thereafter.

The rains and showers will be of great benefit to the crops, which are mostly in emergence stage in places like Kisii. They will also replenish the soil with moisture that will affect positively on 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 in the mornings throughout the entire forecast period. Afternoon/evening showers and thunderstorms are expected over few places on the first and last two days of the forecast period while the other afternoons are expected to experience sunny intervals.

The Afternoon/evening showers will be of advantage to the growth of pasture and vegetation that supports the 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 cloudy early mornings with occasional rains over few places giving way to sunny intervals. Afternoon/evening showers are expected over few places throughout the forecast period.

The rains and showers will benefit the crops that are mostly in their emergence stage in places like Meru, Thika and Embu.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience morning rains over few places on the second and third days, the rest of the morning are expected to be sunny. Afternoons are expected to be sunny throughout the entire forecast period.

The morning rains will continue to replenish the growth of pasture and vegetation that sustain livestock in this region.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience sunny intervals in the morning throughout the forecast period. Afternoon/evening showers are expected over few places throughout the forecast period.

The afternoon showers will continue replenishing the soil with moisture that will enhance the pasture and vegetation growth for livestock rearing in this region and also the maize and Beans that are at emergence stage in places like Katumani.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** are expected to experience morning and afternoon showers over few places from the second day to the end of the forecast period. The first day is expected to experience sunny intervals the entire day.

The morning and showers will continue benefiting the development of mangoes that are in fruit setting stages in places like Mtwapa and Maize that is at emergence stage in places like Msabaha.

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