



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

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

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities in the country were well distributed in the space and intensity during the dekad unlike the previous dekad. Eastern Region received the highest amount of rainfall countrywide with Meru station recording 284.8mm as compared to 132.8mm recorded at Kericho station. In Western region, Kakamega received the highest amount of rainfall of 50.3mm which was a decrease as compared to the previous dekad. In North Eastern region, Wajir recorded the highest amount of rainfall of 113.2mm which was a significant enhancement in the region. In the Coastal region, Mtwapa station received the highest amount of rainfall of 56.1mm. In Nairobi region Kabete station received the highest amount of rainfall of 54.8mm which was an increase as compared to the previous dekad. In Lake Region Suba station recorded 83.2mm of rainfall which was the highest rainfall in the area. In Central region, Nyeri station recorded the highest amount of rainfall of 154.2mm as compared to 13.8mm in the previous dekad.

There was a general decrease in the maximum temperature country wide with Lodwar station recording the highest of 36.2°C compared to 36.8°C recorded in the previous dekad. The minimum temperature increased slightly countrywide with Nyahururu station in Central region recording the lowest temperature of 8.3°C compared to 6.5°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; 11-20APRIL 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded rainfall amount of 50.3mm during the dekad. The mean air temperature is 21.4°C. There was no record on sunshine duration. Pan Evaporation was 47.8mm.

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

2.1.2 Kisii

The station recorded rainfall amount of 63.1mm. The mean air temperature and Pan Evaporation were 20.2°C and 32.6mm respectively. No records on Sunshine duration.

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

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 9.2mm and the average air temperature was 13.7°C. The Pan Evaporation recorded was 38.2mm. No record on sun shine.

Maize and beans were at emergence stage and in good state, planting is still underway and there was insufficient rain.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 127.7mm and the average air temperature reported was 18.5°C. Pan Evaporation was 57.8mm. No record on sun shine.

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

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 154.2mm over the dekad. The average air temperature was 18.7°C. There was no report on pan evaporation and sunshine parameters.

Maize was at 9th leaf while beans were at emergence stage and both crops were in fair state. The weeding was in progress in most farms.

2.3.2 Kabete

The station recorded rainfall amount of 54.8mm over the dekad. The average air temperature and the Pan Evaporation recorded were 19.0°C and 39.3mm respectively. There was no report on sunshine duration.

Both maize and beans crops were at emergence stage and in good condition.

2.3.3 Thika

The station recorded rainfall amount of 43.6mm. The mean air temperature and pan evaporation recorded were 21.1°C and 33.4mm respectively. There was no report on sunshine duration.

Maize, Potatoes and beans were all at emergence stage and in good state.

2.3.4. Nyahururu

The station recorded rainfall amount of 19.6mm. The mean air temperature and pan evaporation recorded were 15.1°C and 44.1mm respectively. There was no report on sunshine duration.

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

2.3.5. Dagoretti

The station reported rainfall amount of 35.0mm during the dekad. The average air temperature and Pan Evaporation were 19.4°C and 35.0mm respectively. No report on sunshine duration.

No phenological report.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded rainfall amount of 284.8mm. The average air temperature and Pan Evaporation recorded were 19.2°C and 48.6mm respectively while the sunshine record was 7.8hrs/day. No report on evaporation pan.

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

2.4.2 Embu

The station reported rainfall amount of 82.0mm. Pan Evaporation was 40.0mm while the mean Air Temperature was 16.1°C. No report on the Sunshine duration.

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

2.4.3 Katumani (Machakos)

The station recorded rainfall amount of 28.1mm. The average air temperature reported was 19.9°C. There was no report on pan evaporation and Sunshine duration.

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

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 6.3mm. The average air temperature and Pan Evaporation recorded was 29.0°C and 59.8mm respectively. There was no report on sunshine duration.

Most farmers have completed planting but there is insufficient rainfall.

2.5.2 Mtwapa

The station received rainfall amount of 56.1mm. The average air temperature recorded was 27.5°C. There was no report on sunshine duration and Pan Evaporation.

Maize was at emergence stage while Mangoes were at flowering stage. Both crops were in a good state.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

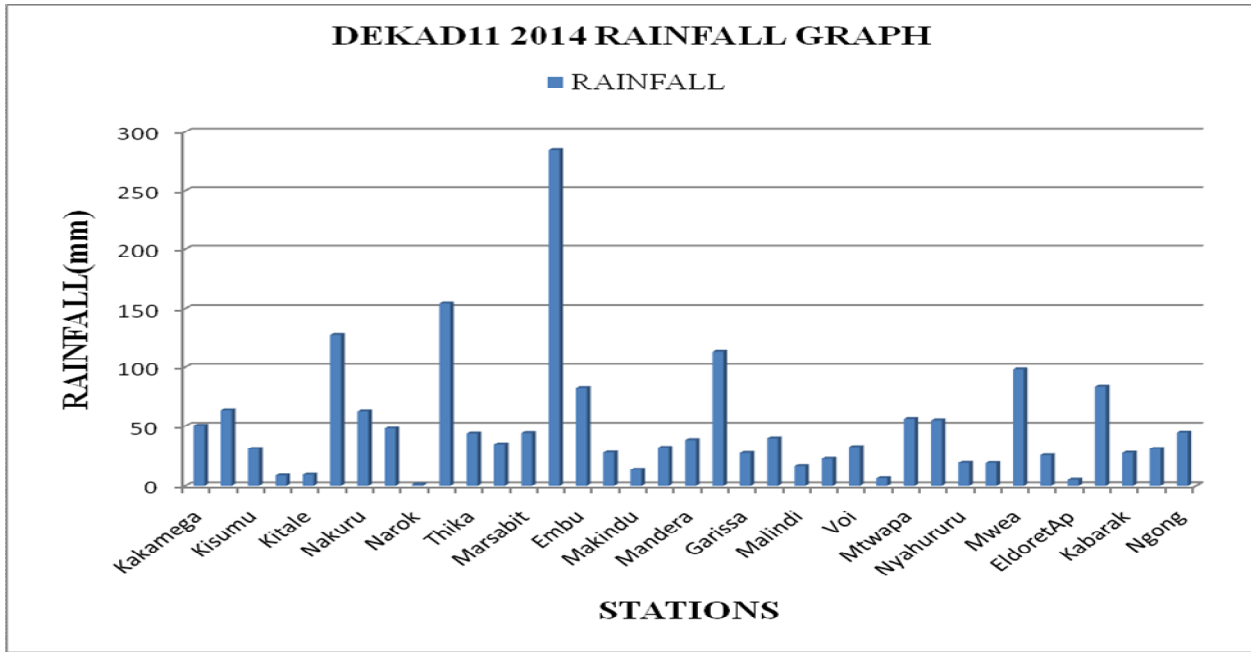


Figure 3.1: Dekadal rainfall totals for 11- 20April 2014

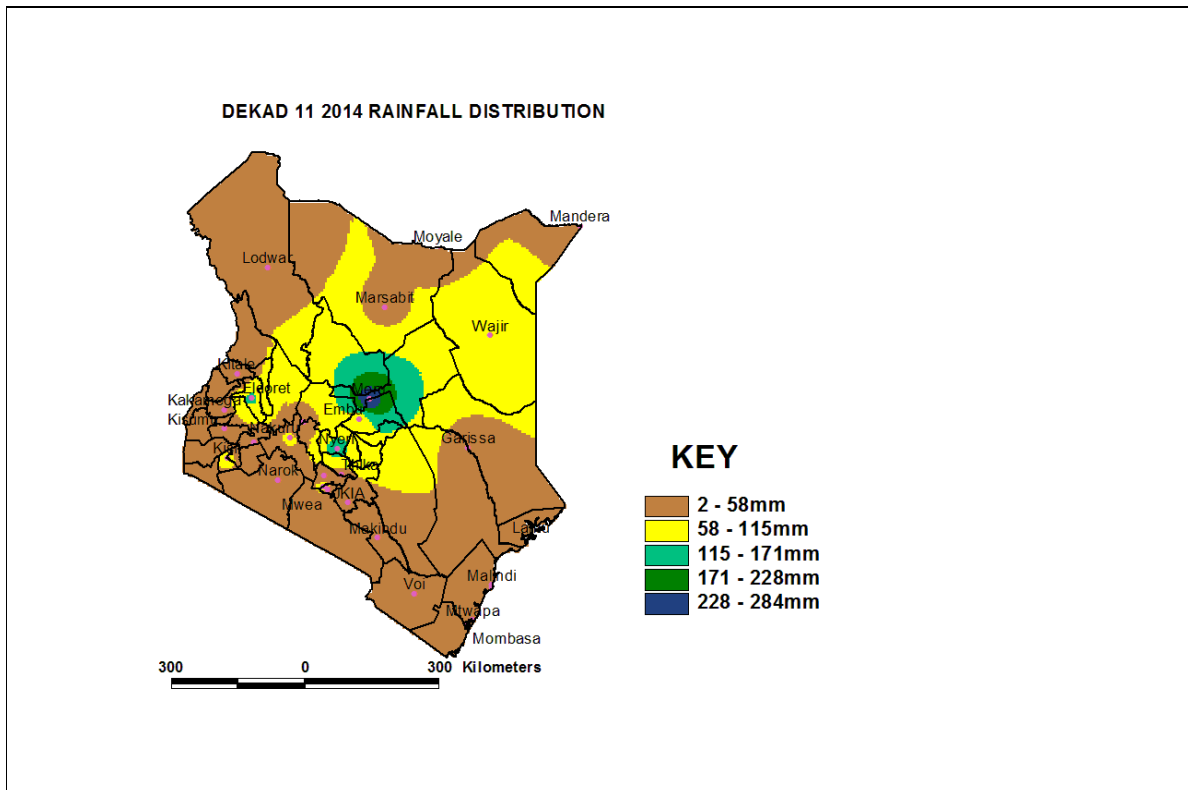


Figure 3.2: Dekadal rainfall distribution for dekad 11, 2014

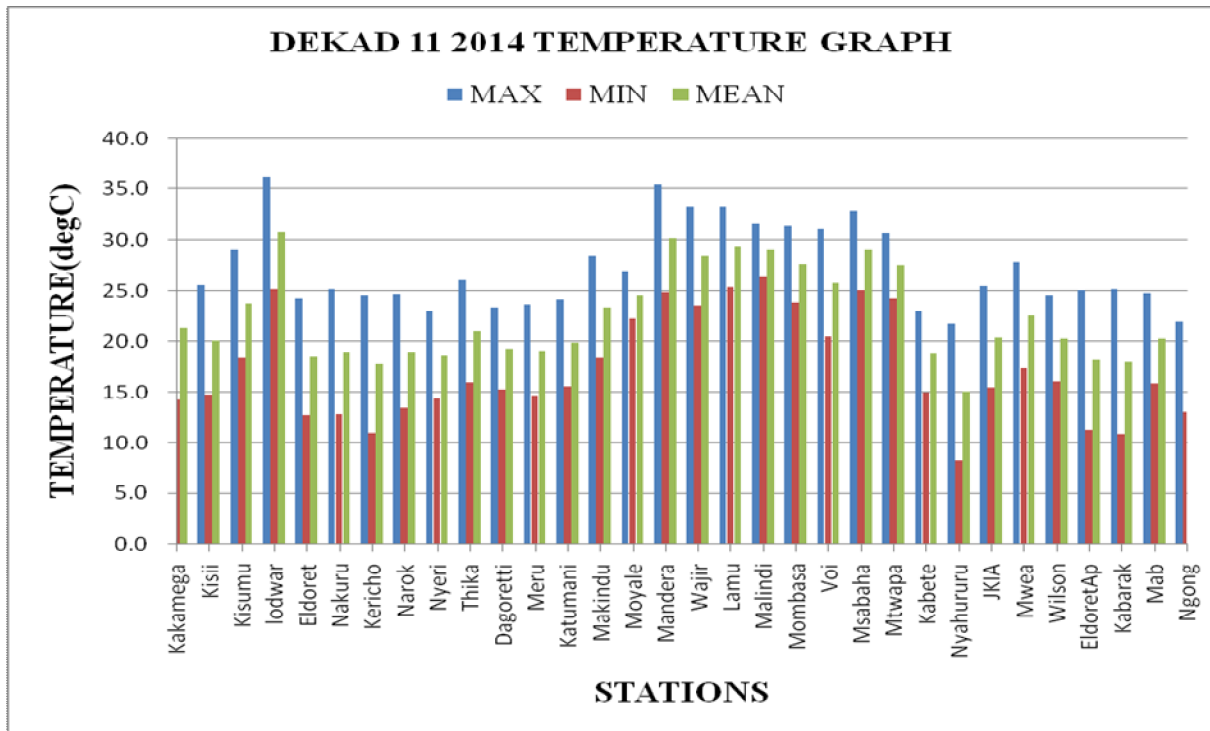


Figure 3.3: Maximum, Minimum and Average temperature in °C for dekad 11, 2014

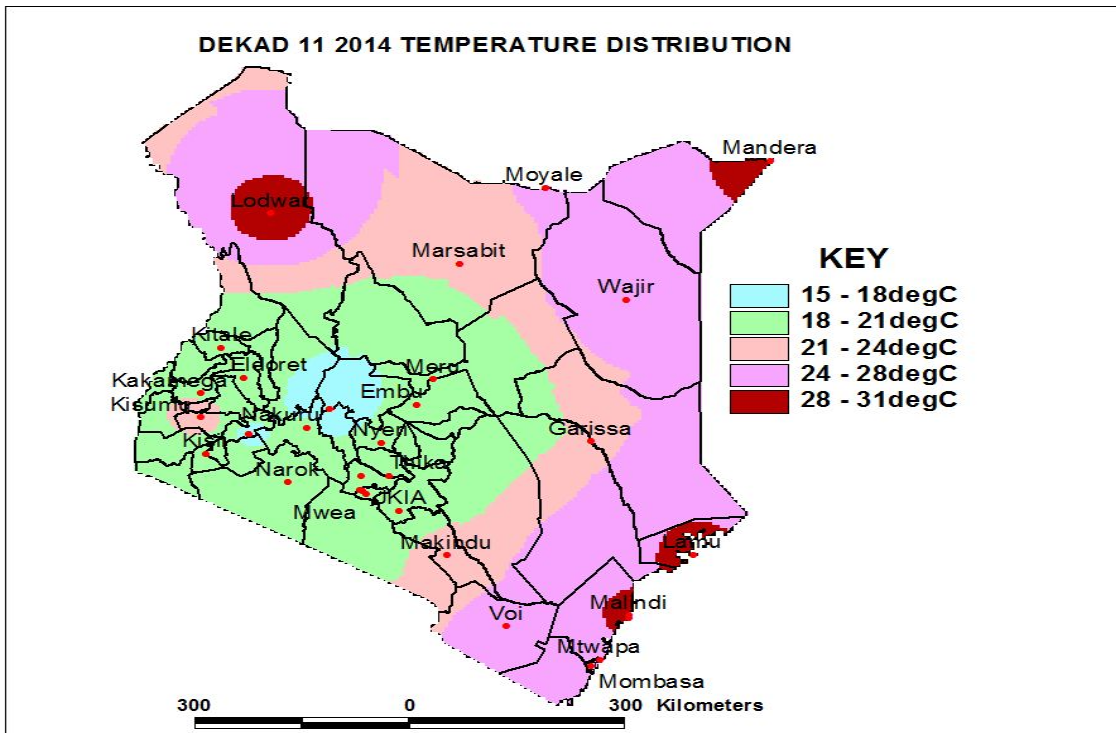


Figure 3.4: Mean temperature distribution for dekad 11, 2014

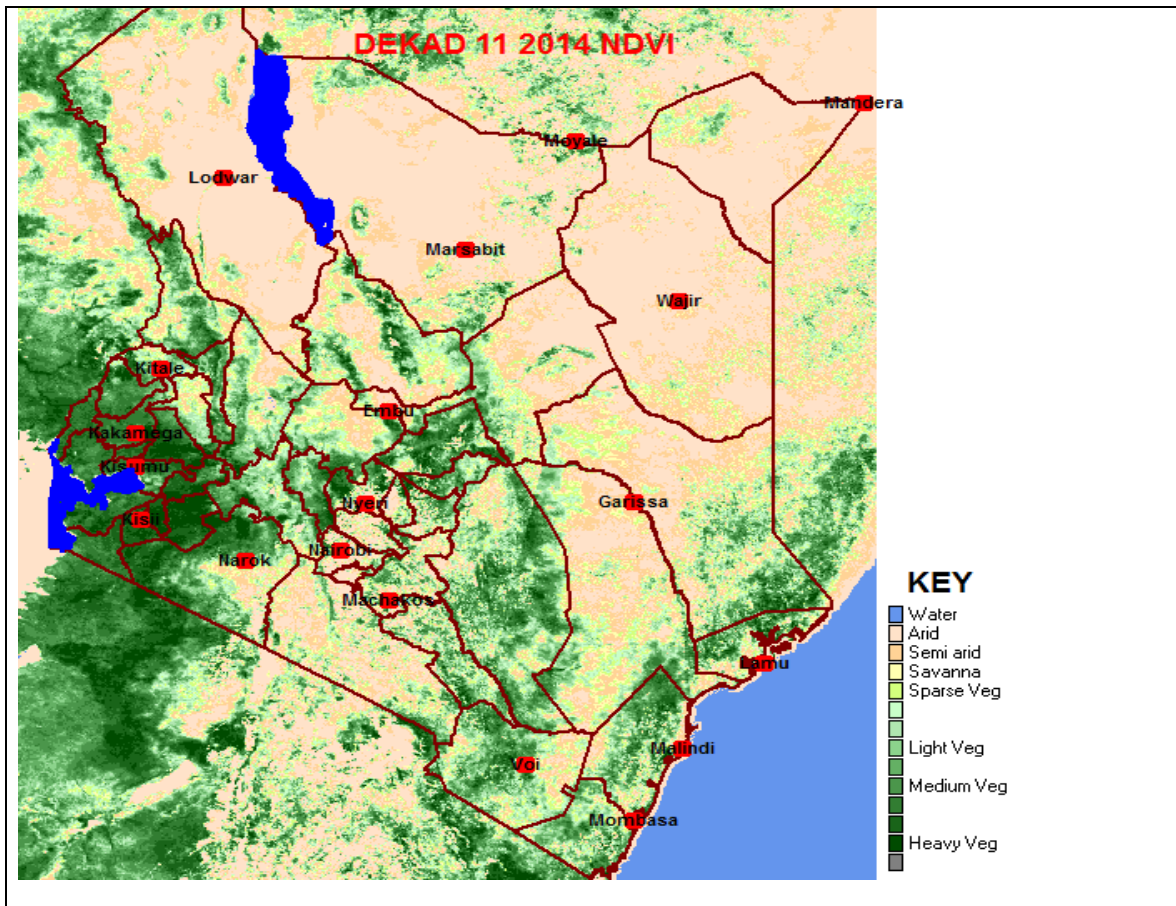


Figure 3.5: Normalized Difference Vegetation Index (NDVI)

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-30 APRIL 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 sunny intervals in the morning for much of the forecasted period. Showers and thunderstorm in the afternoon are expected over few places at the beginning and increasing to several places towards the end of the forecasted period.

The afternoon showers will be expected to benefit the growth and the development of the crops, which are mainly in emergence stage.

- ❖ **Over the Northwestern counties (Turkana, West Pokot and Samburu)**, Sunny and dry conditions are expected throughout the forecast period. Few places especially areas bordering south Sudan and Uganda may experience isolated afternoon showers and thunderstorms over few places towards the end of the forecast period.

The afternoon showers are expected to improve the state of 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 the whole day at beginning of the forecasted period. Early morning cloudiness with rains over few places giving way to sunny intervals and afternoon showers

are expected over few places increasing to several places towards the end of the forecast period.

The expected showers will continue to improve the state of the crops and vegetation in the region.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo)**, are expected to experience morning rains over few places and sunny intervals in the afternoon throughout the forecast period.

The expected morning rains during the dekad will develop the state of pasture and vegetation in this region.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)**, are expected to experience mainly sunny intervals to the 6th day of the forecast period. Early morning cloudiness with rains over few places is expected. This is expected to give way to sunny intervals and afternoon showers over few places from the 7th day of the forecast period increasing to several towards the end of the period.

The wet conditions expected will regenerate the crops, pasture and vegetation in the region.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)**, is expected to experience showers in the morning over few places and sunny intervals in the afternoon at the 6th day of the forecast period increasing to the several as the period progresses. Relatively heavy rainfall is expected at the end of the forecast period.

The rainfall condition expected may have a positive impact on the crops, which are still mainly in emergence stage in this region.

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