



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 6, 2014
21-28 FEBRUARY, 2014**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities in the country decreased significantly in the country as compared to the previous dekad. Lake Region received the highest amount of rainfall countrywide with Kisii station recording 53.7mm as compared to 134.0mm recorded in Ngong station in Nairobi region in the previous dekad. In Western region, Kakamega station received the highest amount of rainfall of 6.5mm. In Rift Valley region Narok station recorded the highest amount of rainfall of 8.2mm. , All the other regions did not record any rainfall, including Eastern, Nairobi, North Eastern, Central and Coastal regions.

Generally, there was an increase in the maximum temperature over the whole country. Wajir station recorded the highest maximum temperature of 37.7°C compared to 37.7°C in the same station. The minimum temperature decreased in most stations in the country with Nyahururu station in Central region recording the lowest temperature of 7.5°C compared to 10.3°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 6; 21-28 FEBRUARY 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received rainfall amount of 6.5mm. The mean air temperature and pan evaporation were 22.9°C and 45mm respectively. Sunshine duration was 8.9hrs

No phenological report

2.1.2 Kisii

The station recorded rainfall amount of 53.7mm. The mean air temperature and Pan Evaporation were 22.2°C and 46.2mm respectively. Sunshine duration was 9.0hours.

No phenological report

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station did not record any rainfall. There were no records of average air temperature and sunshine duration. The Van Evaporation record was 98.3mm.

No phenological report.

2.2.2 Eldoret-Kapsoya

The station received no rainfall during the dekad. The average air temperature and pan evaporation reported were 18.6°C and 55.8mm respectively. There was no report on sunshine duration.

No phenological report.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station did not receive any rainfall over the dekad. The average air temperature was 18.4°C. There was no report on pan evaporation and sunshine parameters.

Maize crop was at the wax ripeness stage and in failure state with below normal yield being expected due to insufficient rainfall. Bean harvesting is over.

2.3.2 Kabete

The station recorded no rainfall over the dekad. The average air temperature recorded was 18.7°C. There was no report on sunshine duration and the Pan Evaporation was 56mm.

Maize was at flowering stage and in poor state while beans were at maturity stage and in a failure state due to insufficient rainfall. Below normal yield is expected for both crops.

2.3.3 Thika

The station recorded no rainfall. The mean air temperature and pan evaporation recorded were 20.7°C and 37.5mm respectively. There was no report on sunshine duration.

Maize was at harvest stage and in poor state as it had been adversely affected by insufficient rainfall. Below normal yield is expected for the crop. Beans and potatoes have been harvested.

2.3.4. Nyahururu

The station recorded no rainfall. The mean air temperature and pan evaporation recorded were 15.3°C and 46.5mm respectively. There was no report on sunshine duration.

No phenological report.

2.3.5. Dagoretti

The station reported no rainfall during the dekad. The average air temperature and Pan Evaporation were 19.4°C and 46.5mm respectively. The sunshine duration was 9.3hrs.

Maize was at wax ripeness stage and in good state.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded no rainfall. The average air temperature and Pan Evaporation recorded were 19.4°C and 43mm respectively. Sunshine duration was 9.3hrs.

Maize and was at maturity and in fair state with below normal yield being expected.

2.4.2 Embu

The station reported no rainfall. Pan Evaporation was 43.5mm. There was no report on Temperature and Sunshine duration.

No phenological report.

2.4.3 Katumani (Machakos)

The station recorded no rainfall. The average air temperature reported was 20.3°C and sunshine duration was 8.9hrs. There was no report on pan evaporation.

Maize was at flowering stage and in poor state due to adverse effect by too much sun. Below normal yield is expected for the crop.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received no rainfall. The average air temperature recorded was 28.1°C. There was no report on sunshine duration and Van Evaporation.

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

2.5.2 Mtwapa

The station received no rainfall. The average air temperature and Pan Evaporation recorded were 27.3°C and 56mm respectively. There was no report on sunshine duration.

Mangoes were at flowering stage and in good state.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

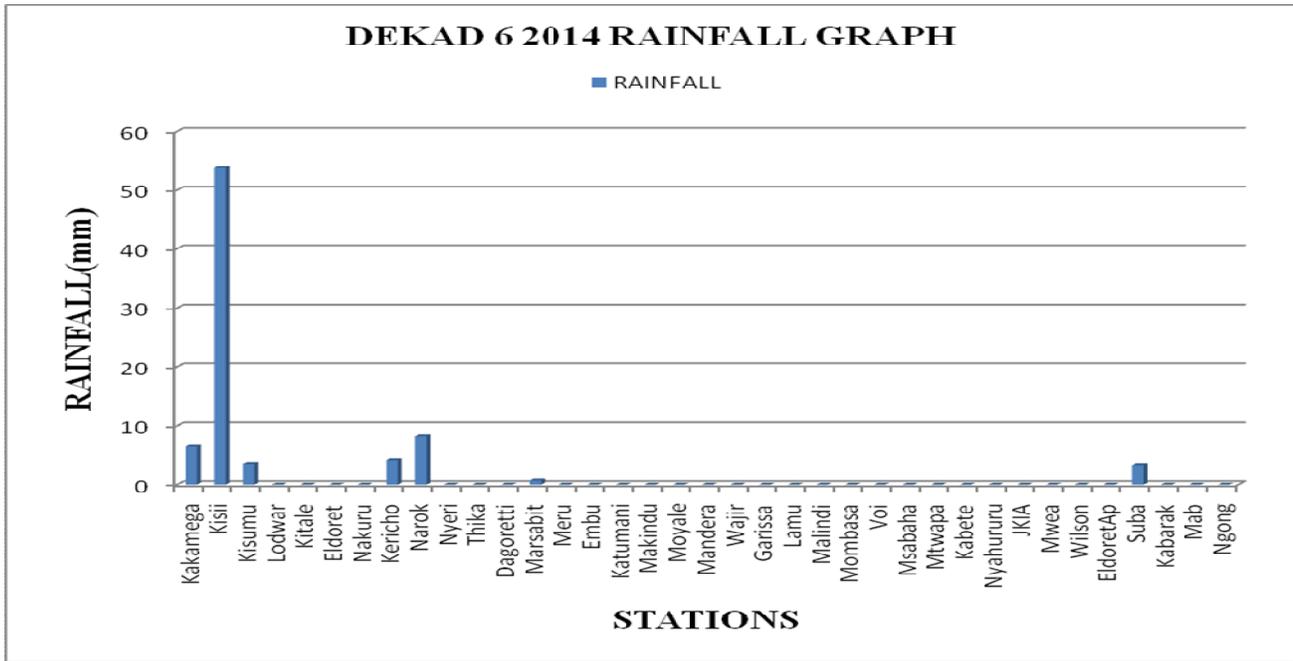


Figure 3.1: Dekadal rainfall totals for 21st to 28th February 2014

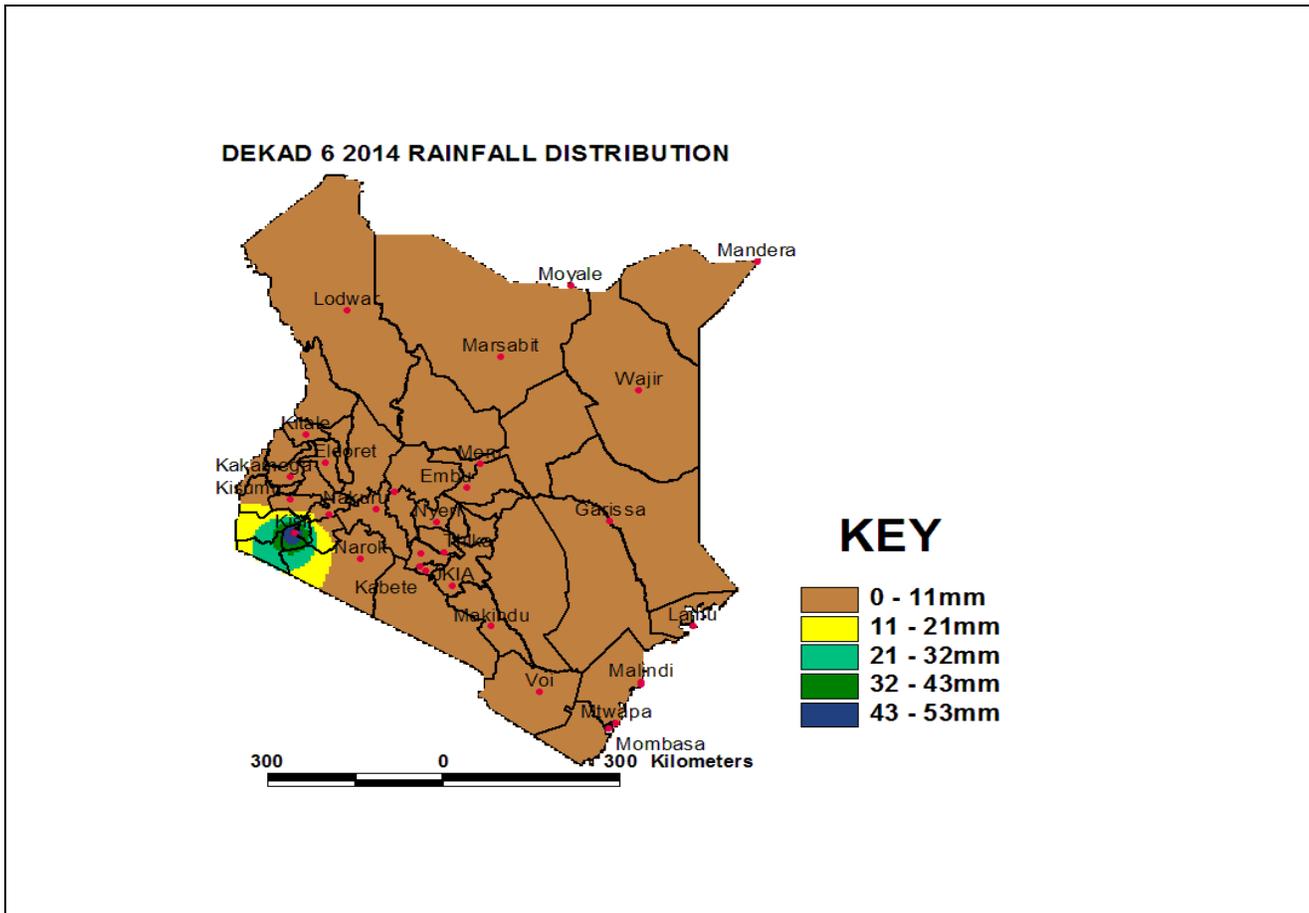


Figure 3.2: Dekadal rainfall distribution for dekad 6, 2014

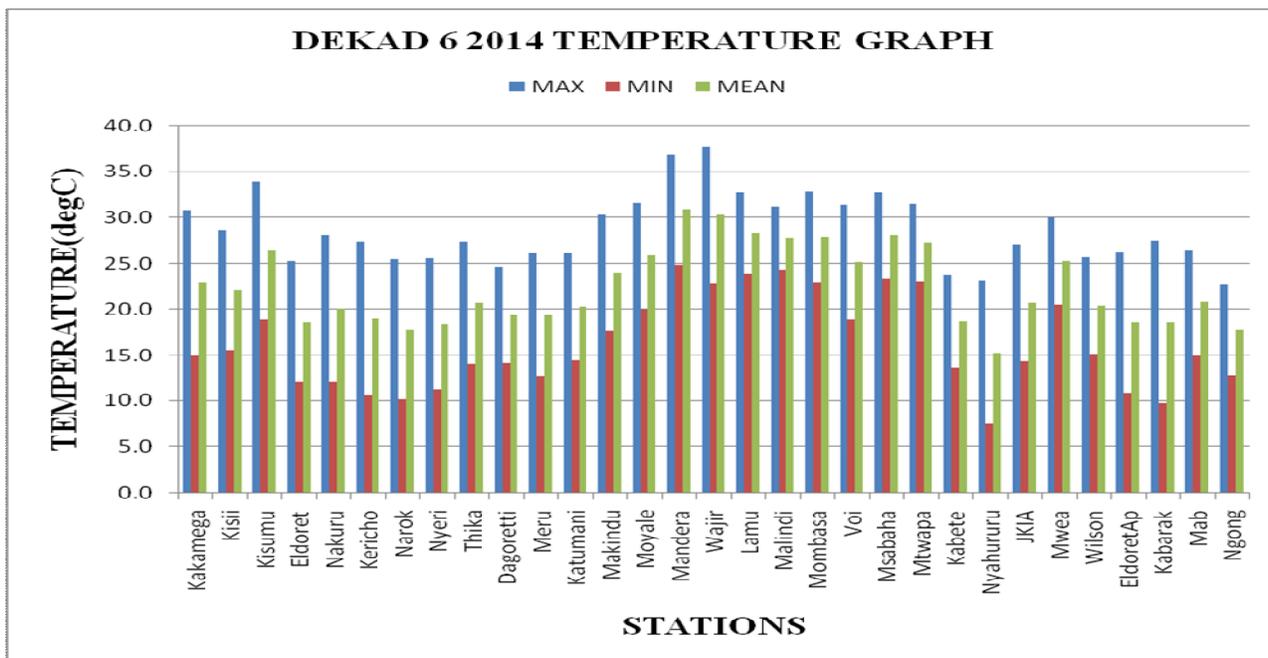


Figure 3.3: Maximum, Minimum and Average temperature in °C for dekad 6, 2014

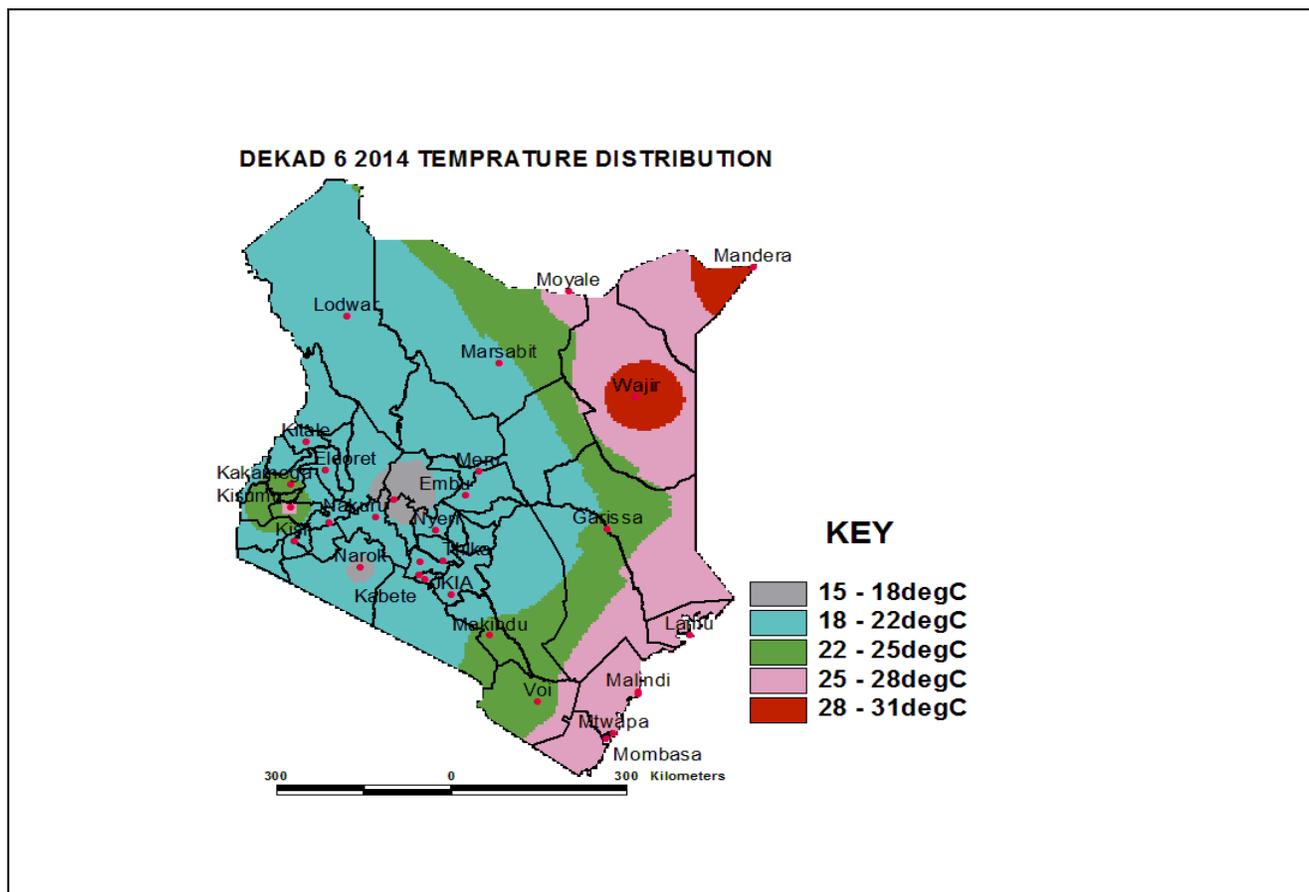


Figure 3.4: Mean temperature distribution for dekad 6, 2014

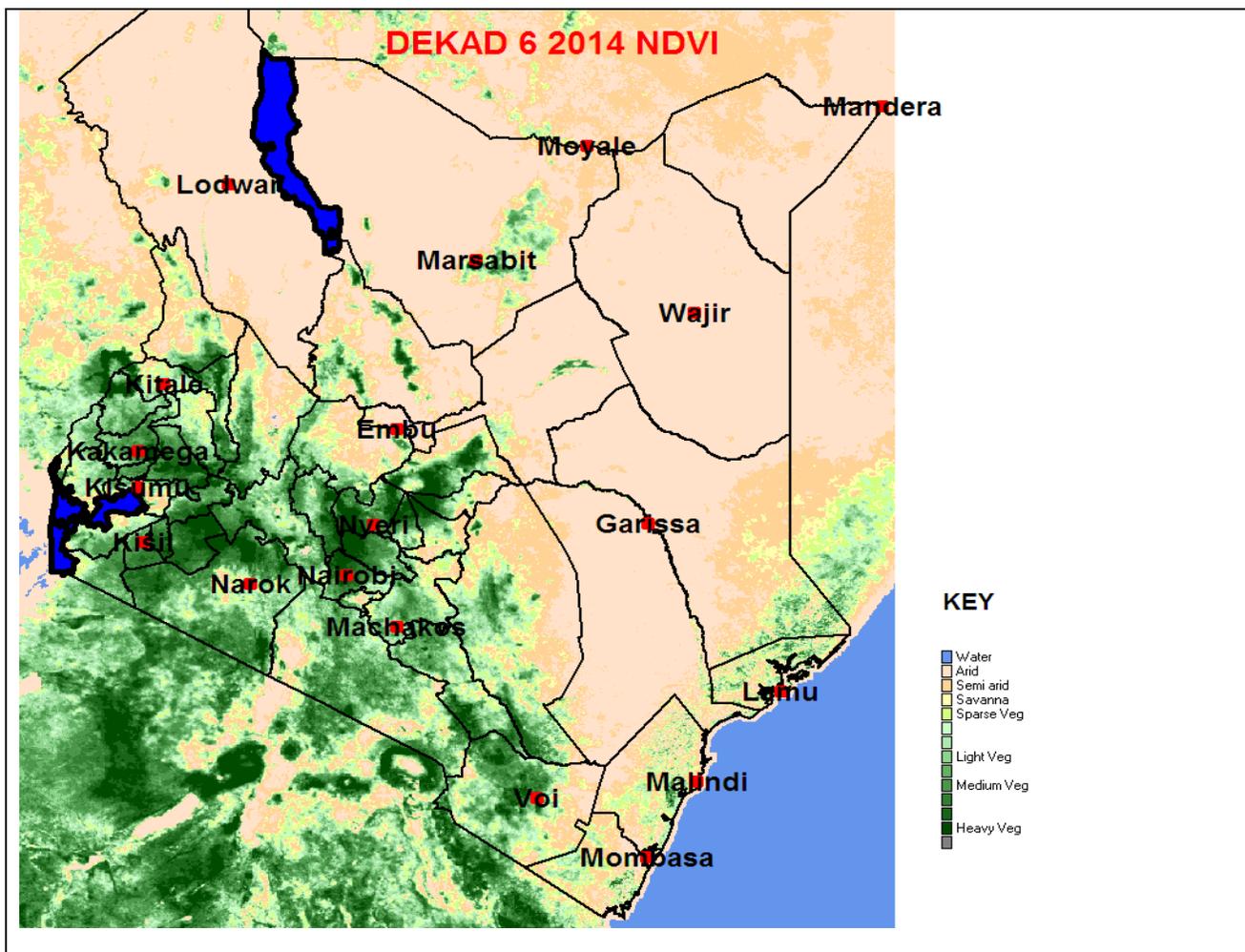


Figure 3.5: Normalized Difference Vegetation Index (NDVI)

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1-10 MARCH 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 throughout the forecast period. Sunny intervals then Showers will mainly dominate afternoon and thunderstorms over few places are expected throughout the forecast period.

The afternoon showers will continue to improve the state of the few crops, which are still in farms in the region.

- ❖ **Over the Northwestern counties (Turkana, West Pokot and Samburu),** Sunny intervals are expected the whole day in the entire forecast period.

The dry condition is expected to worsen the situation in 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 in the whole day throughout the forecast period.

The expected showers will continue to enhance the state of the crops in the region.

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

This dry condition will continue to worsen 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 the whole day with sporadic light showers.

The sunny conditions forecasted will have adverse effect on crops, pasture and vegetation in the region.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** is expected to experience mainly sunny intervals the whole day for the entire focused period.

The sunny interval is expected will have a negative impact on the crops in this region.

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