



**KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 13, 2013
01-10 MAY 2013**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased in intensity especially in Coastal region during this current dekad, while the least rainfall was received in North Eastern region. The highest rainfall countrywide of 344.6mm, 226.7mm, 225.1mm and 211.5mm was received at Lamu, Mombasa, and Malindi and Msabaha stations in Coastal region respectively. In Western region Kakamega station recorded the highest rainfall of 156.0mm. Kisii station in Nyanza region recorded the highest rainfall of 149.2mm. In Rift-valley region the highest rainfall of 132.9mm was received at Eldoret airport station. Thika station in Central region reported the highest rainfall of 109.4mm. In North Eastern region the highest rainfall of 81.1mm was reported at Moyale station. Mwea station in Eastern region reported the highest rainfall of 47.5mm. Kabete station reported 21.9mm as the highest rainfall in Nairobi region.

Both Maximum and Minimum temperatures were on decreasing trend in most stations. Mandera station in North Eastern region still reported the highest maximum temperatures of 35.2°C compared to 35.10°C reported in the previous Dekad. The lowest maximum temperature of 21.0°C was recorded at Nyahururu in Central region compared to 21.8°C reported at Ngong station in Nairobi region in the previous Dekad. Nyahururu station in Central region still reported the lowest temperature of 9.4°C compared to 9.5°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 13; 01-10 MAY 2013

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

This station received rainfall amount of 156.0mm. The mean air temperature and pan evaporation reported were 20.8°C and 45.2 mm respectively. There was no report on sunshine hours.

Beans and maize are at emergence and flowering stages in fair and good states respectively. Most farmers are weeding their crops.

2.1.2 Kisii

This station recorded rainfall amount of 149.2mm. The mean air temperature and total pan evaporation recorded were 20.0°C and 34.7mm respectively. There was no report on sunshine duration.

Beans and maize were at emergence and flowering stages respectively, in fair state due to sufficient rainfall experienced in this dekad.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station received rainfall amount of 98.7mm. The average air temperature and pan evaporation were 20.0°C and 32.2mm respectively. There was no report on sunshine parameter.

Maize and beans were at emergence stage and in good condition. Weeding is in progress in most farms.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 104.3mm. The average air temperature and pan evaporation reported were 17.7°C and 39.3mm respectively. There was no report on sunshine parameter.

Maize and beans were at emergence stage and in fair condition. Weeding is in progress.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 98.9mm. The average air temperature was 18.8°C. There was no report on pan evaporation and sunshine parameters.

Maize and beans were at emergence and flowering stages and in fair state. Beans have been affected by some insects.

2.3.2 Kabete

The station received rainfall amount of 21.9mm. The average air temperature and pan evaporation recorded were 18.3°C and 26.4mm respectively. There was no sunshine report.

Maize and beans were at emergence stage and in fair state. Few farmers have started weeding their crops. Coffee was at 100% pin head. It has been attacked by leaf rust 25%, leaf minor less than 10%. Bananas were at 100% appearance of sucker. It has been damaged by thrips 25%, cigar and end rot at less than 10%.

2.3.3 Thika

The station received 109.4mm. The mean air temperature recorded was 22.1°C. There was no report on sunshine and pan evaporation parameters.

Maize and beans were at emergence and flowering stages respectively, and in poor condition due to excessive rainfall during this dekad. Potatoes were also at flowering stage and in poor condition.

2.3.4. Nyahururu

The station received 70.6mm of rainfall. The mean air temperature and pan evaporation recorded were 15.2°C and 32.6mm respectively. There was no report on sunshine hours.

Maize and beans were at emergence stage and in fair condition respectively. Also potatoes were at emergence and in fair condition. A few farmers have started weeding their crops.

2.3.5. Dagoretti

The station received rainfall amount of 18.7mm. The mean air temperature and evaporation pan recorded were 18.7°C and 23.4mm respectively. There was no sunshine parameter recorded.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station reported 6.2mm. The average air temperature and pan evaporation were 19.0°C and 34.7mm respectively. There was no report on sunshine parameter.

Maize and beans were at emergence and flowering stages respectively and in fair state. Some farmers have started weeding.

2.4.2 Embu

The station received rainfall amount of 25.6mm. The average air temperature and pan evaporation recorded were 15.5°C and 31.1mm respectively. There was no report on the sunshine parameter.

Maize and beans were at emergence and flowering stages respectively and in fair state. Weeding is in progress.

2.4.3 Katumani (Machakos)

The station received rainfall amount of 20.1mm. The average air temperature was 19.4°C. There was no report on pan evaporation and sunshine parameters.

Maize and beans were at emergence and flowering stages respectively and in good condition. Some farmers have started weeding.

2.5 COASTAL REGION

2.5.1. Msabaha

The station received rainfall amount of 211.5mm. The average air temperature recorded was 26.6°C. There was no report on sunshine hours and evaporation pan.

Maize was at emergence stage and in fair condition. A few farmers have started weeding.

2.5.2 Mtwapa

The station received rainfall amount of 35.2mm. The average air temperature recorded was 27.7°C. There was no report on sunshine and evaporation parameters.

Maize was at emergence stage and in good condition. Weeding is in progress. Mangoes were at fruit setting stage and in good condition.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

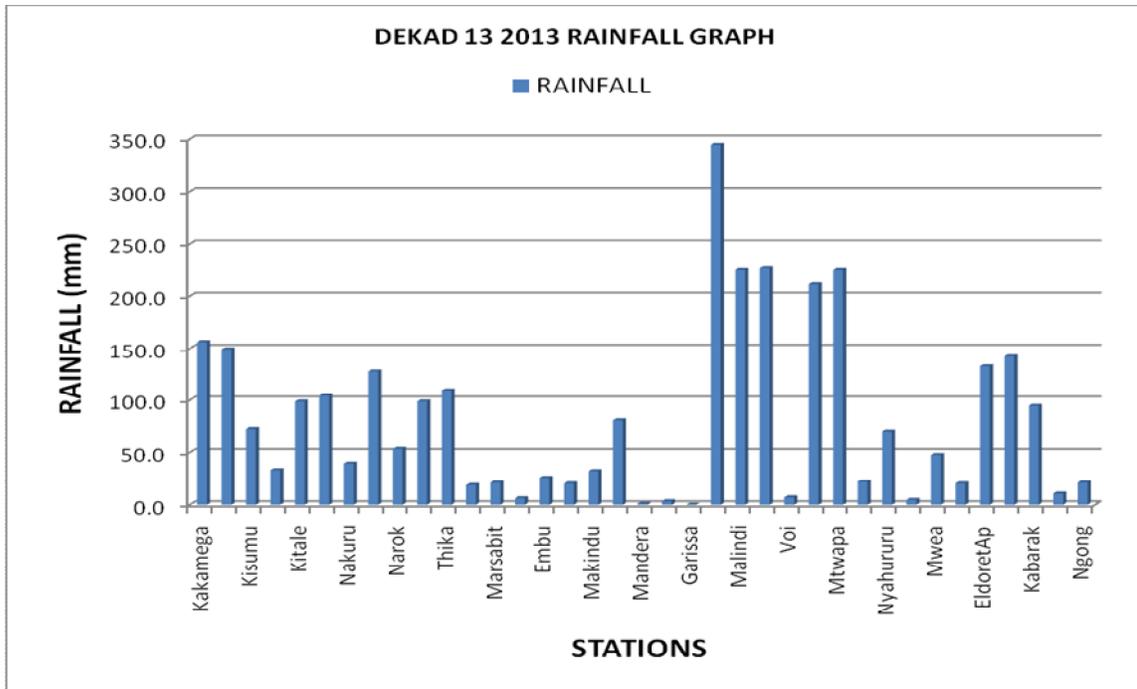


Figure 3.1: Dekadal rainfall totals for 01-10 May 2013

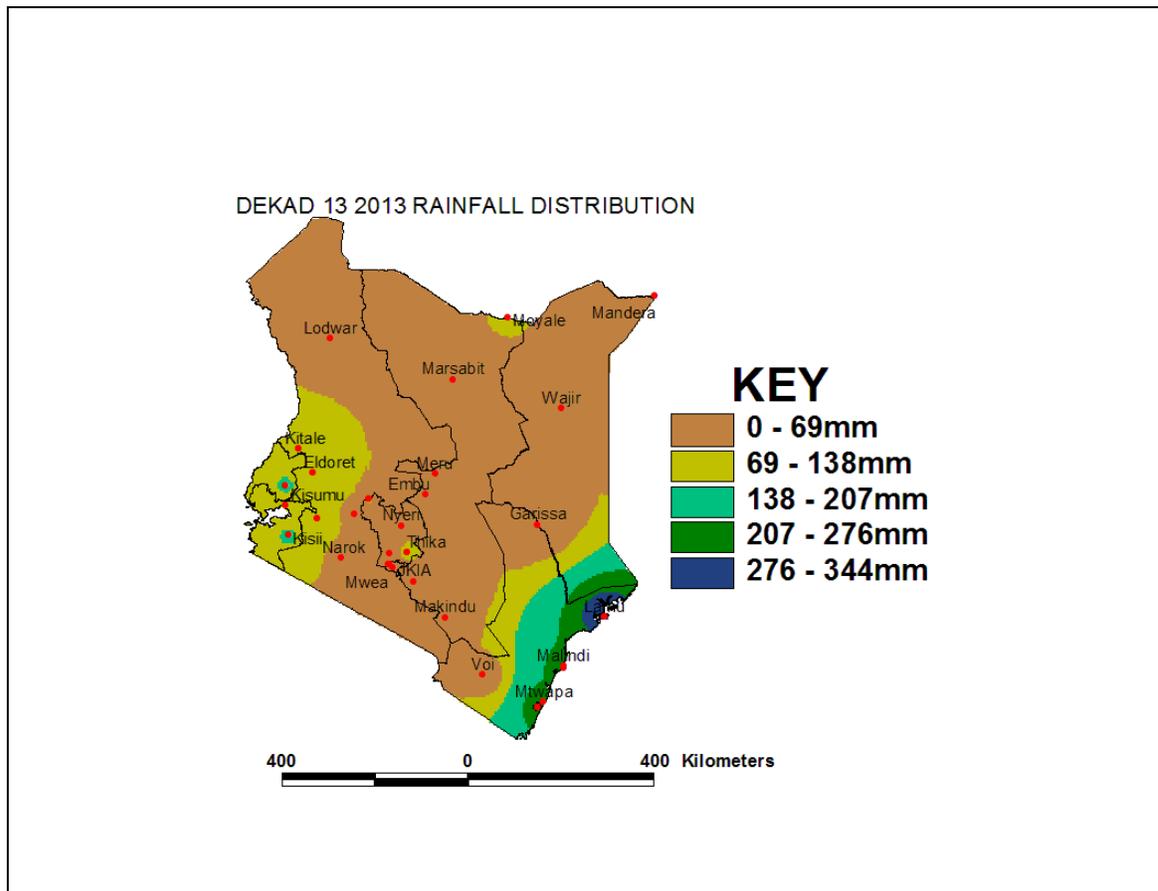


Figure 3.2: Dekadal rainfall distribution for 01-10 May 2013

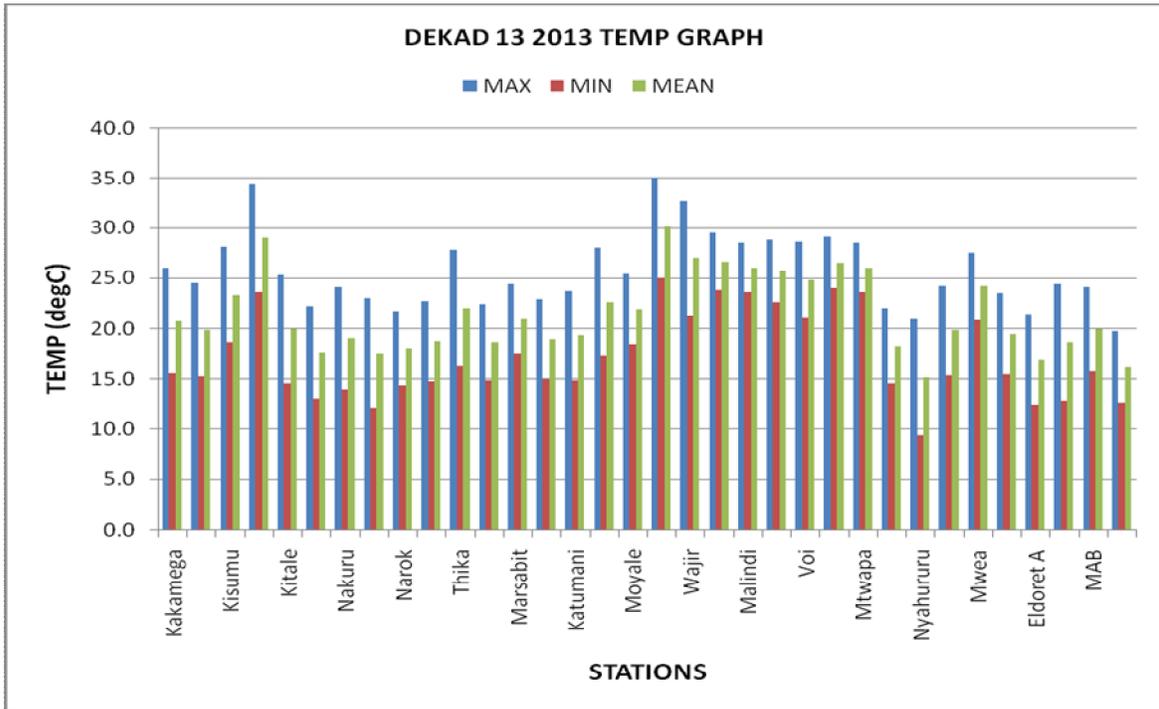


Figure 3.3: Maximum, Minimum and Average temperature in °C for dekad 13, 2013

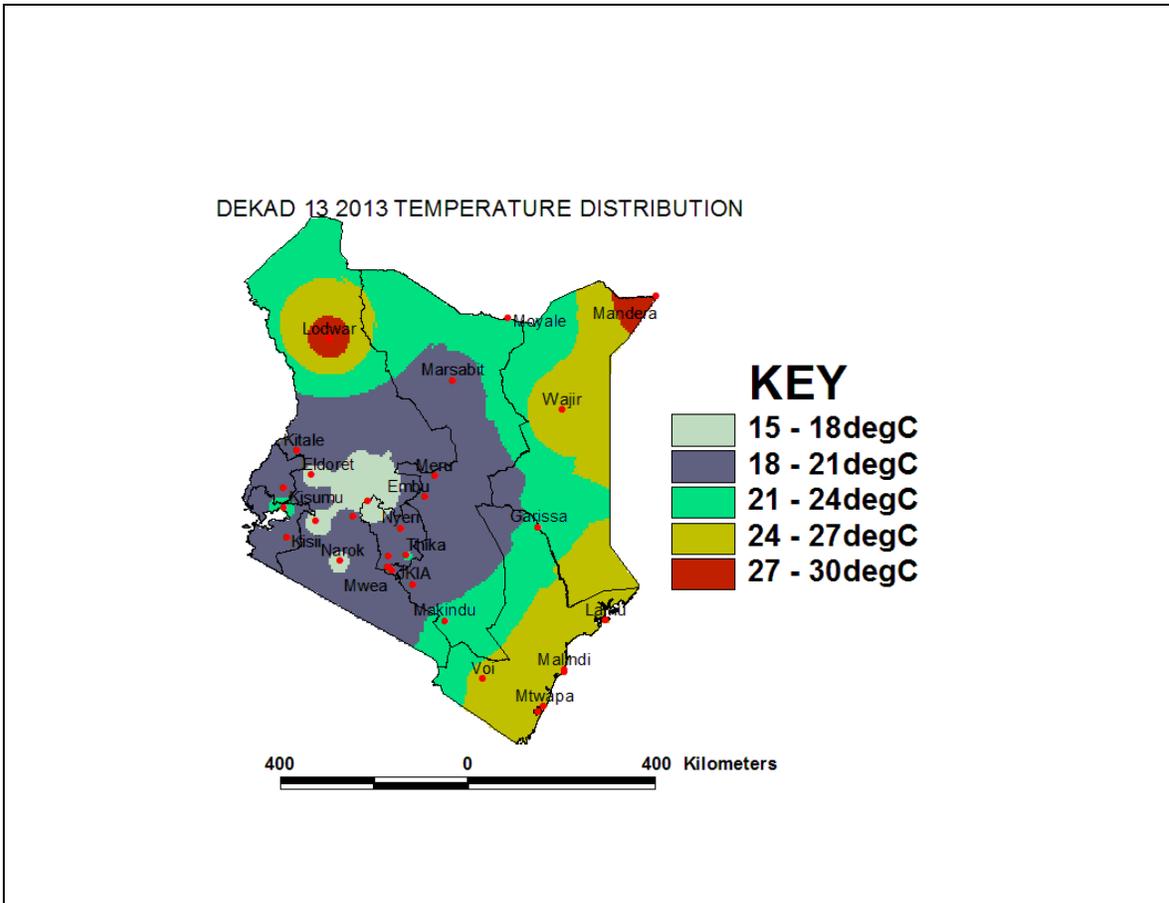


Figure 3.4: Mean temperature distribution for dekad 13, 2013

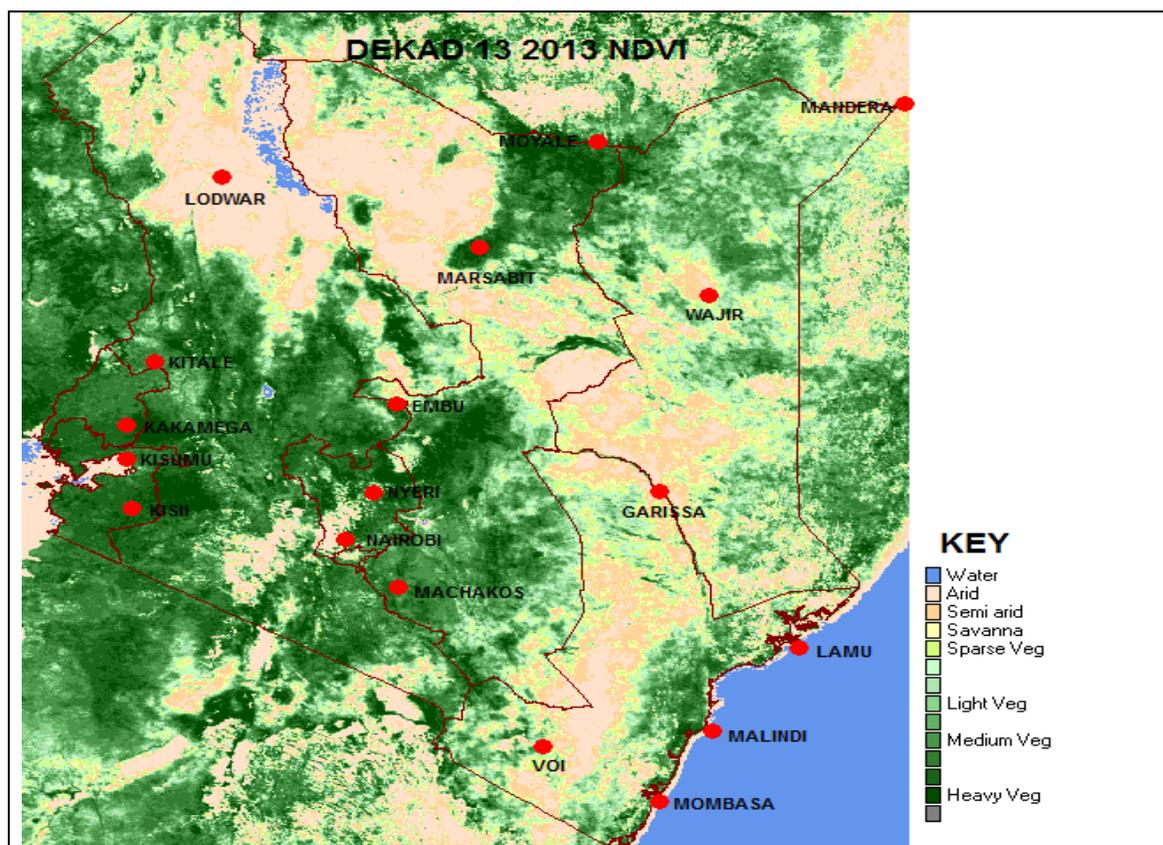


Figure 3.5: Normalized Difference Vegetation Index (NDVI)

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11-20 MAY 2013

- ✚ 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 in the mornings rains over a few places in the first half of the forecast period breaking into sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over few places for the entire forecast period.

The showers continue to be of great benefit to the crops which are still in their initial stages.

- ✚ Over the Northwestern counties (Turkana, West Pokot and Samburu), are expected to experience sunny intervals in the morning and afternoon for the entire forecast period.

The showers will continue to replenish the pasture and vegetation cover 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 rains over a few places in the morning for the first 4 days of the forecast period breaking into sunny intervals thereafter. Showers and

thunderstorms over few places are expected in the afternoon for the first 2 days followed by showers over few places for the next 4 days breaking into sunny intervals thereafter.

The showers continue to benefit the crops growing in these regions.

- ✚ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo)**, are expected to experience rains over few places in the morning for the first 3 days breaking into sunny intervals for the rest of the forecast period. In the afternoon, sunny intervals are expected for the entire forecast period.

The showers are beneficial to the pastures for the animals and vegetation in these regions.

- ✚ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)**, are expected to experience rains over a few places in the morning for the first 4 days of the forecast period, followed by sunny intervals in the morning for the rest of the entire period. Showers over few places are expected for the first 4 days breaking into sunny intervals for the rest of the forecast period in the afternoon.

The showers continue to benefit the growing crops in these regions.

- ✚ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)**, are expected to experience morning showers over few places for the entire forecast period. In the afternoon, showers over few places are expected for the first 5 days of the forecast period breaking to sunny intervals thereafter.

The showers are beneficial to the growing crops in these regions.

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