



**KENYA METEOROLOGICAL SERVICES
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 26, 2013
11-20 SEPTEMBER 2013**

1. THE HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities in the Country have slightly increased as compared to the previous dekad. Eldoret Kapsoya station in North Rift region recorded the highest amount of rainfall of 101.7mm in the whole country while in the Central Rift Valley region; Nakuru recorded the highest with 64.5mm. The highest rainfall observed in the Western region, was 64.6mm at Kakamega station. In North Eastern region there was insignificant drops of rainfall reported where Moyale recorded 1.01mm. In the Lake Region, Kisii station recorded the highest amount of rainfall of 92.6mm as compared to the previous dekad where it recorded the amount of 60.2mm. Embu station in Eastern region reported the highest amount of 4.3mm, which was a decrease from 6.6mm recorded at the same station in the previous dekad. In Nairobi region, Wilson Airport recorded the highest amount of rainfall of 65.2mm. In Central region, Nyeri station recorded the highest amount of rainfall of 10.6mm. In Coast region there was a slight decrease of rainfall compared to the previous dekad where Mombasa station recorded the highest of 20.6mm.

There was a considerable rise in temperature both the Maximum and the Minimum. Mandera station recorded the highest maximum temperature of 36.2°C. Nyahururu station in Central region reported the lowest minimum temperature of 7.0°C.

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 26; 11-20 SEPTEMBER 2013

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received rainfall amount of 64.6mm. The mean air temperature and pan evaporation were 20.8°C and 38.6mm respectively. There was no report on sunshine duration

*Maize crop was in harvest stage and in good state with normal yields expected.
Harvesting of maize is almost complete.*

2.1.2 Kisii

The station recorded rainfall and mean air temperature of 92.6mm and 20.8°C for the dekad. There was no report on sunshine duration and pan Evaporation.

Both maize and beans are in emergence stage and in fair state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station received rainfall amount of 44.8mm. The average air temperature and pan evaporation were 19.4°C and 38.8mm respectively. There was no report on sunshine duration.

Maize was at maturity stage and in good state. Normal yield expected crops.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 101.7mm. The average air temperature reported was 17.1°C. There was no Sunshine and pan Evaporation.

Maize was at maturity stage and in fair state. Normal yield expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 13.3mm. The average air temperature was 17.1°C. There was no report on pan evaporation and sunshine parameters.

Maize crop was at harvest stage and in a poor state with below normal yield expected due to adverse effect by stalk borer. A number of farmers have started harvesting their maize crop.

2.3.2 Kabete

The station recorded rainfall amount of 1.0mm. The average air temperature and pan evaporation recorded were 17.3°C and 32.5mm respectively. There was no report on sunshine duration.

Maize was at wax ripeness stage and in a poor state. Beans were at maturity stage and in a poor state with below normal yield expected. Farmers are preparing their farms for the October-November-December season. Coffee was at 100% berry hard stage and in a moderate state but damaged by leaf rust and leaf minor at less than 10% each. Bananas were at 100% appearance of sucker stage and in a moderate state but damaged by thrips, cigar end rot and cigar Toka at less than 10% each.

2.3.3 Thika

The station received rainfall amount of 1.3mm. The mean air temperature and pan evaporation recorded were 19.0°C and 35.8mm respectively. No report on sunshine duration.

Land preparation is going on for the next growing season.

2.3.4. Nyahururu

The station received 39.8mm of rainfall. The mean air temperature and pan evaporation recorded were 13.9°C and 32.1mm respectively. There was no report on sunshine.

Maize was at flowering stage while potatoes were at harvest stage and in a good state. Normal yield expected for maize

2.3.5. Dagoretti

The station received rainfall amount of 0.3mm. The mean air temperature and sunshine duration recorded were 18.0°C and 5.6hours respectively. Evaporation report was 35.8mm

No phenological report

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station reported no rainfall. The average air temperature and pan evaporation were 17.9°C and 48mm respectively. The sunshine hours recorded was 8.4hrs.

Land is being prepared for the short season rain.

2.4.2 Embu

The station recorded rainfall amounts of 6.6mm. Pan evaporation recorded was 29.1mm and no report on sunshine duration.

No phenological report.

2.4.3 Katumani (Machakos)

The station recorded no rainfall. The average air temperature was 22.1°C. The sunshine duration recorded was 5.6hrs. There was no report on pan evaporation.

No phenological report

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 13.1mm. The average air temperature and pan evaporation recorded was 26.3°C and 47.8mm respectively. There was no report on sunshine duration.

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

2.5.2 Mtwapa

The station received rainfall amount of 20.2mm. The average air temperature and total pan Evaporation recorded were 49.5°C. There is no report on Pan Evaporation.

Harvesting of maize is over. Mangoes were at flowering stage.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

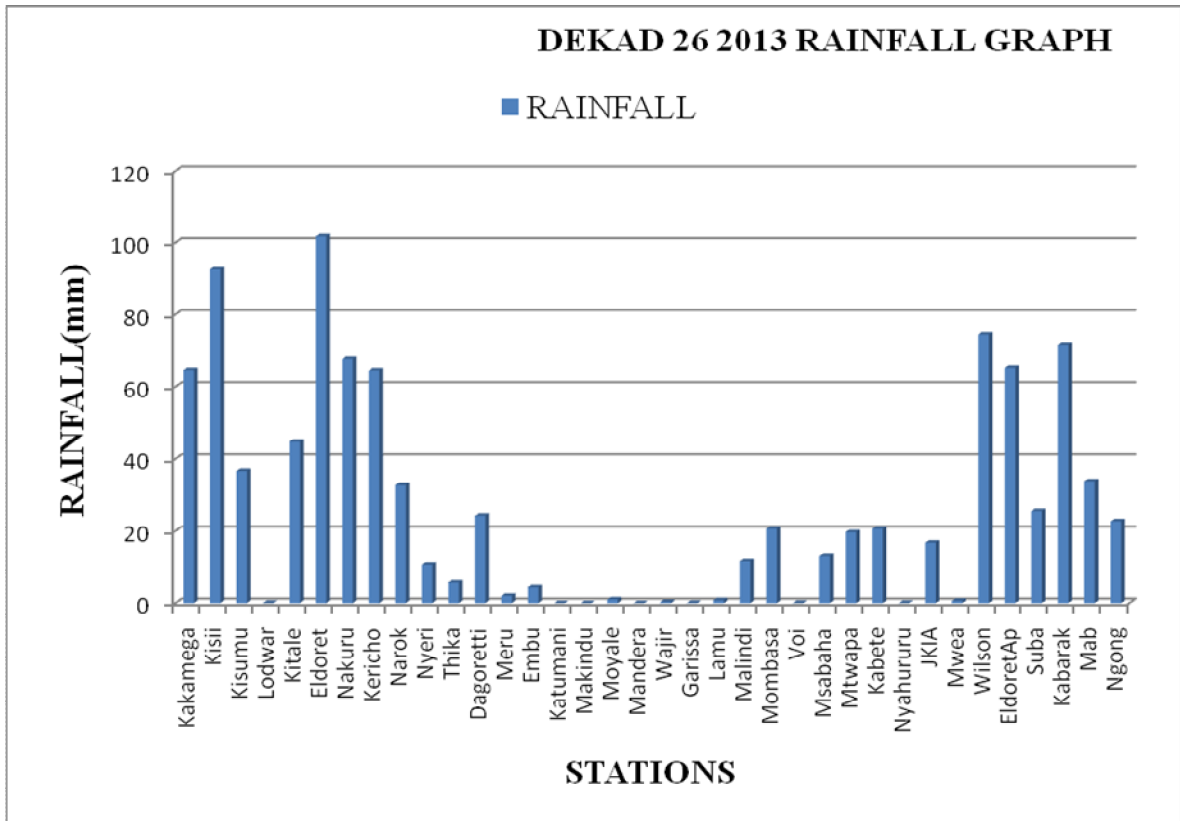


Figure 3.1: Dekadal rainfall totals for 11th to 20th September 2013

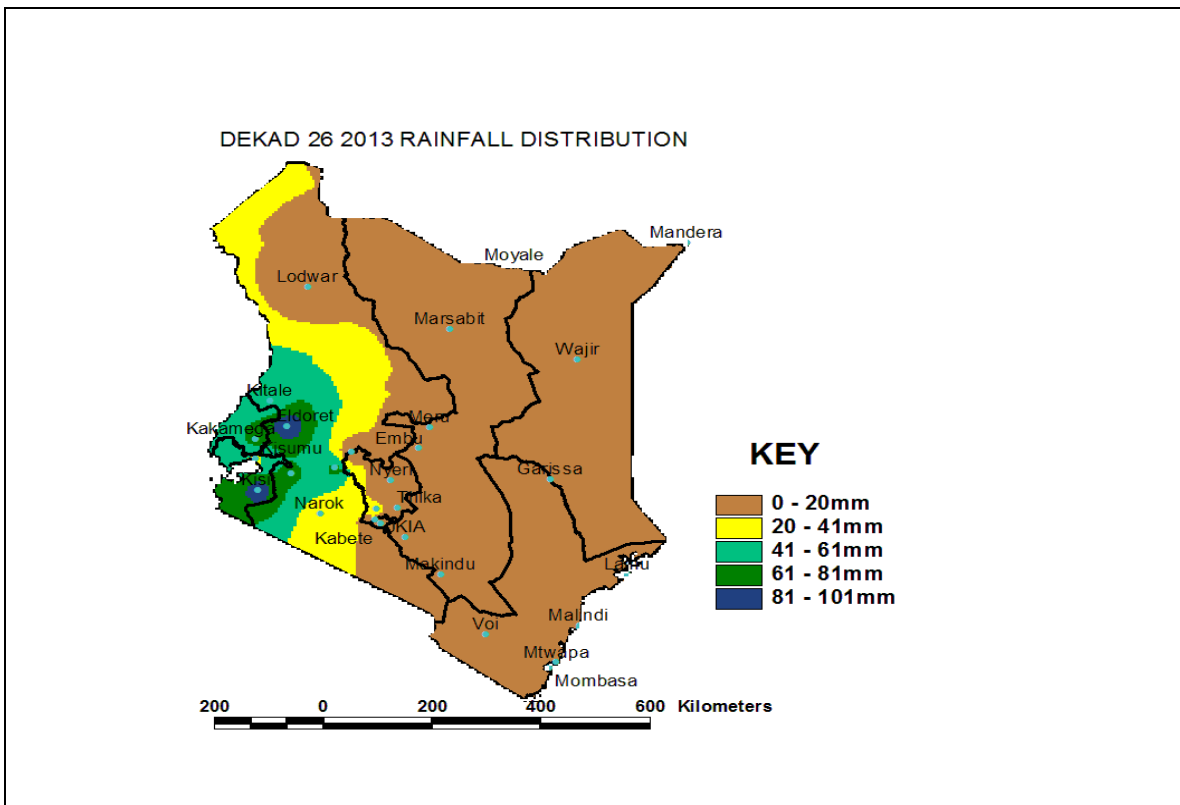


Figure 3.2: Dekadal rainfall distribution for dekad 26, 2013

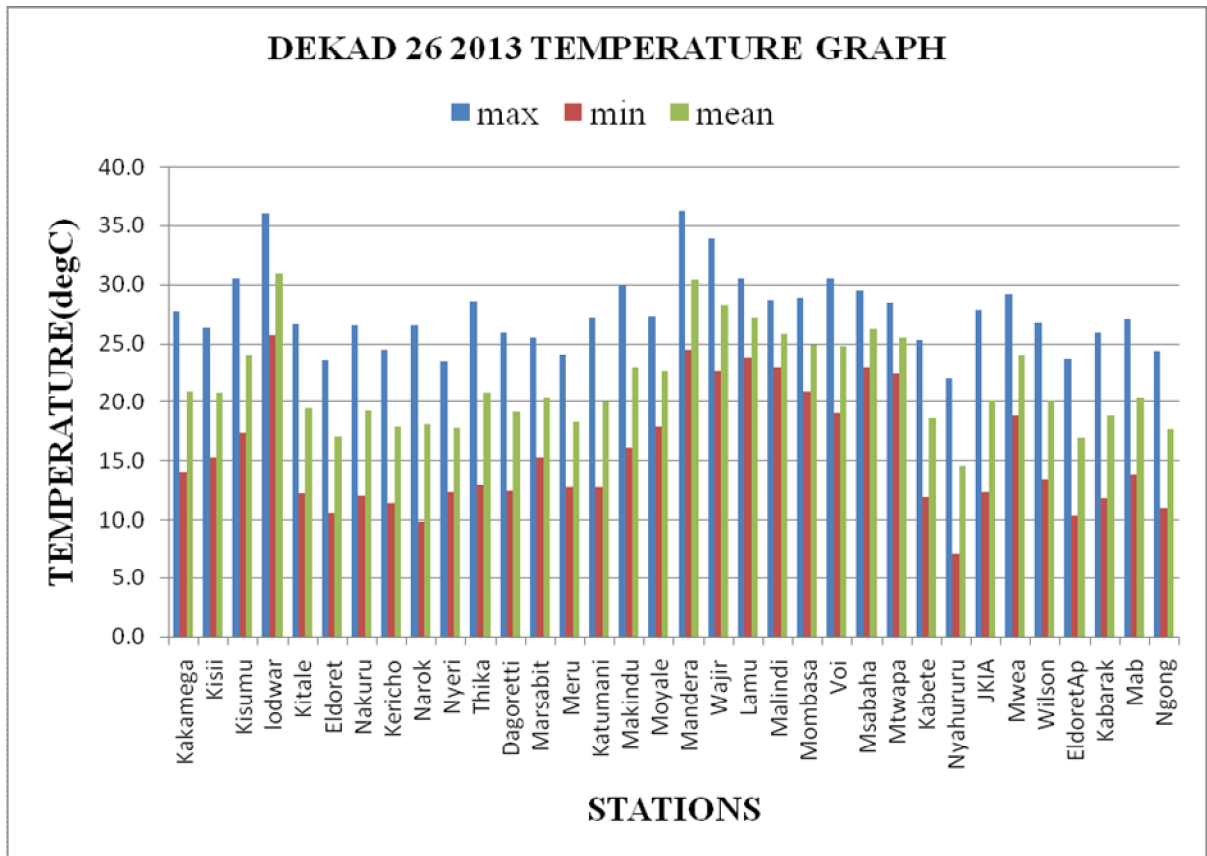


Figure 3.3: Maximum, Minimum and Average temperature in °C for dekad 26, 2013

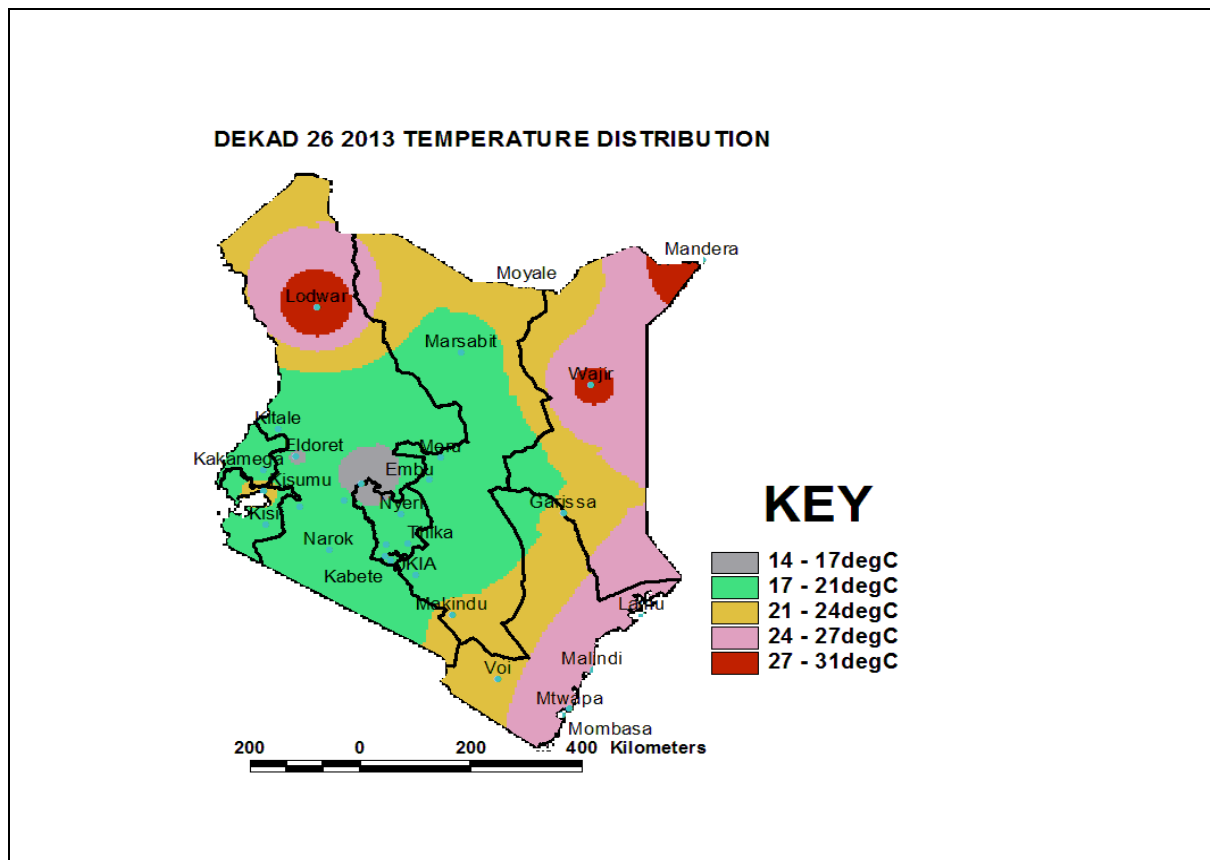


Figure 3.4: Mean temperature distribution for dekad 26, 2013

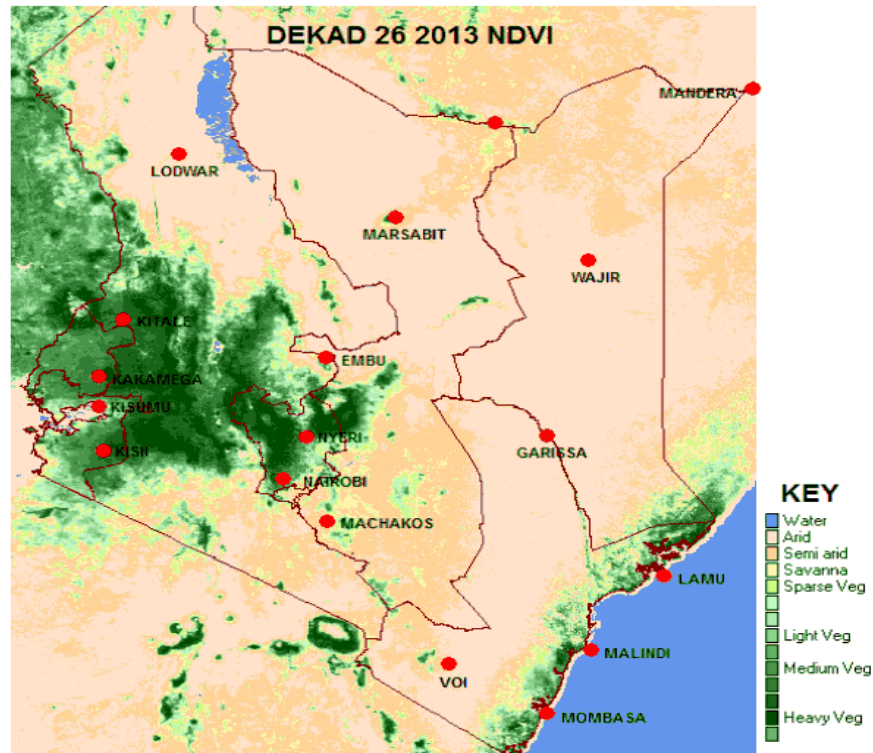


Figure 3.5: Normalized Difference Vegetation Index (NDVI)

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS 21-30 September 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 sunny intervals in the morning throughout the forecast period. Showers and thunderstorms are likely over several places in the afternoon for the entire forecast period.

The showers will benefit the already germinated crops in Kisii at the same time interfere with the harvest in the rest of the region.

- ✚ **Over the Northwestern counties (Turkana, West Pokot and Samburu)**, are expected to experience sunny intervals in the morning throughout the forecast period. Afternoon showers are expected over few places on the first and second days.

The dry conditions are expected to worsen the state of pastures and vegetation cover in these regions thus causing animal- human and human-human conflict. The showers over few places will have no significant effect to the pasture and the vegetation.

- ✚ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga)**, are expected to experience cool and cloudy early mornings with light rains over few places giving way to sunny intervals in the morning throughout the forecast period. Afternoon showers are also expected over few places throughout the forecast period.

The cloudy-wet conditions will benefit the crops, which are in the wax ripeness stages.

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

Dry conditions are expected to worsen the state of pasture and vegetation in these counties, which may cause conflict to the people living there due to water and pasture shortage.

- ✚ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)**, are expected to experience sunny intervals the whole day for much of the forecast period except the third day which is expected to experience showers over few places in the afternoon.

Dry conditions might exaggerate the situations of crops and pastures in these regions.

- ✚ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)**, are expected to experience showers over few places giving way to sunny intervals on the first day of the forecast period. The remaining days are expected to experience sunny intervals the whole day. *The morning showers continue to benefit crops and vegetation in these regions.*

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