



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 27, 2013
21-30 SEPTEMBER, 2013**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities in the country have slightly reduced as compared to the previous dekad. Kakamega station in Western region recorded the highest amount of rainfall of 117.9mm in the whole country. In the Rift Valley region, Kericho station recorded the highest amount of 88.8mm while in North Eastern region, insignificant amount of rainfall was reported. In the Lake Region, Kisumu station recorded the highest amount of rainfall of 77.9mm compared to the previous dekad where Kisii recorded of 92.6mm. Katumani station in the Eastern region reported the highest amount of 2.5mm. This was a decrease from 4.3mm recorded at Embu station in the previous dekad. In Nairobi region, Moi Airbase station recorded the highest amount of 14.0mm while in Central region, Nyeri station recorded the highest amount of 11.6mm. In the Coastal region, the distribution was good compared to the previous dekad. During the dekad, Mtwapa station recorded the highest of 7.6mm which was a decrease from the previous dekad.

Generally, there was a slight increase in the maximum temperature over the whole country. The highest observed maximum temperature was 37.5°C at Mandera station compared to 36.2°C during the previous dekad. The minimum temperature increased generally in the country with Nyahururu station in Central region reporting the lowest of 8.4°C compared to the previous dekad where it recorded 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 27; 21-30 SEPTEMBER 2013

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received rainfall amount of 117.9mm. The mean air temperature and pan evaporation were 21.0°C and 44.3mm respectively. There was no report on sunshine duration

Farmers have completed their maize harvest.

2.1.2 Kisii

The station recorded rainfall and mean air temperature of 74.3mm. The mean air temperature and pan evaporation were 20.6°C and 32.6mm respectively. There was no report on sunshine.

Both maize and beans were in the emergence stage and in fair state. Most farmers are doing their first weeding.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station received rainfall amount of 49.0mm. The average air temperature was 19.6°C. There was no report on Evaporation pan and sunshine duration.

Maize was at harvest stage and in good state as normal yield is expected. Farmers have started harvesting the maize crop.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 49.0mm. The average air temperature and Evaporation pan reported were 17.5°C and 67.4mm respectively. There was no Sunshine.

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 11.6mm. The average air temperature was 18.4°C. There was no report on pan evaporation and sunshine parameters.

Harvesting of the maize crop continued. Below normal yield is expected due to adverse effect on the crop by the stalk borer. Land preparation for the short rains is in progress.

2.3.2 Kabete

The station recorded rainfall amount of 4.3mm. The average air temperature and pan evaporation recorded were 19.1°C and 42.3mm respectively. There was no report on sunshine duration.

Maize was at harvest stage and in a poor state with below normal yield expected. Farmers are preparing their farms for the short rains 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.

2.3.3 Thika

The station received rainfall amount of 2.6mm. The mean air temperature and pan evaporation recorded were 21.5°C. No report on Evaporation pan and sunshine duration.

Land preparation is going on for the next growing season.

2.3.4. Nyahururu

The station received 4.1mm of rainfall. The mean air temperature and pan evaporation recorded were 15.5°C and 42.2mm 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 is expected for maize

2.3.5. Dagoretti

The station received rainfall amount of 2.0mm. The mean air temperature and Evaporation pan were 19.6°C and 43mm respectively. There was no report on sunshine duration.

No phenological report

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station reported rainfall amount of 0.6mm. The average air temperature and pan evaporation were 20.7°C and 51.1mm respectively. There was no report on sunshine duration.

Land is being prepared for the short season rain.

2.4.2 Embu

The station recorded rainfall amounts of 2.2mm. Pan evaporation recorded was 41.7mm and no report on sunshine duration.

Land preparation is undergoing for the short rain season.

2.4.3 Katumani (Machakos)

The station recorded rainfall amount of 2.5mm. The average air temperature was 23.7°C. There was no report on sunshine duration and pan evaporation.

No phenological report

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 4.5mm. The average air temperature and pan evaporation recorded was 26.5°C and 47.7mm respectively. There was no report on sunshine duration.

Mangoes were at 100% fruit setting stages and in good state as farmers are busy preparing their farms for short rain season.

2.5.2 Mtwapa

The station received rainfall amount of 7.6mm. The average air temperature and total pan Evaporation recorded were 25.6°C and 54.7mm. There is no report on sunshine duration.

Mangoes were at flowering stage and in poor state as preparation of farms are underway.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

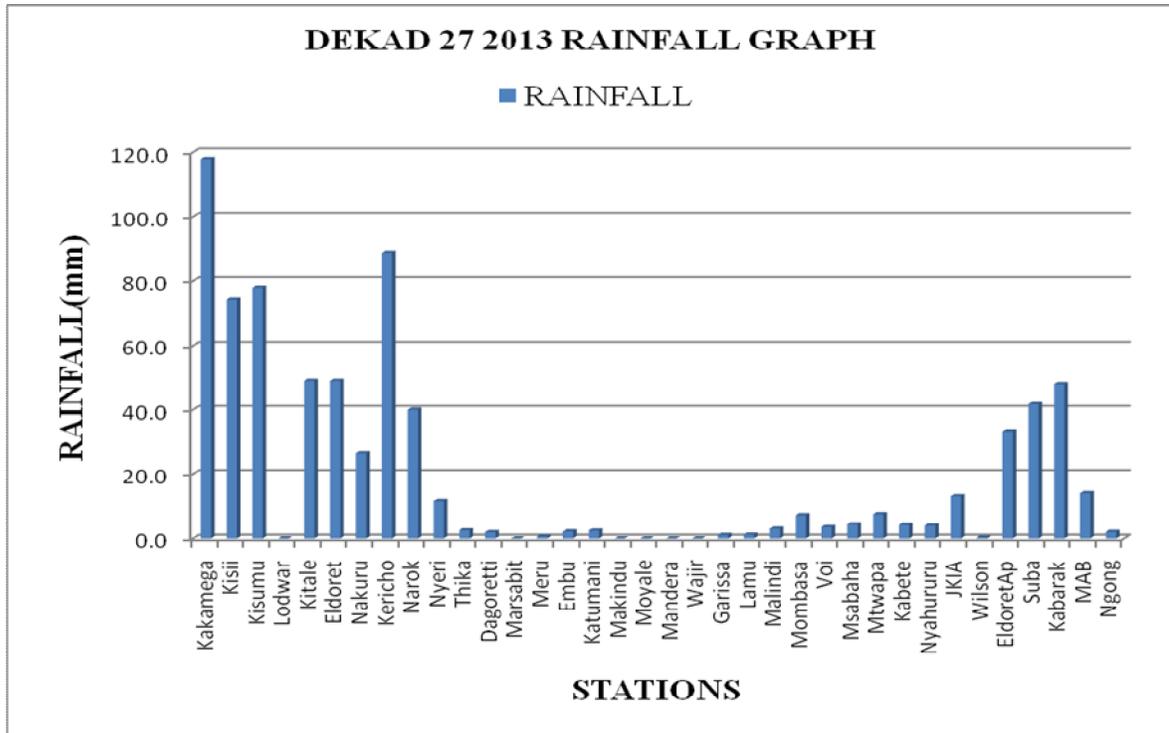


Figure 3.1: Dekadal rainfall totals for 21st to 30th September 2013

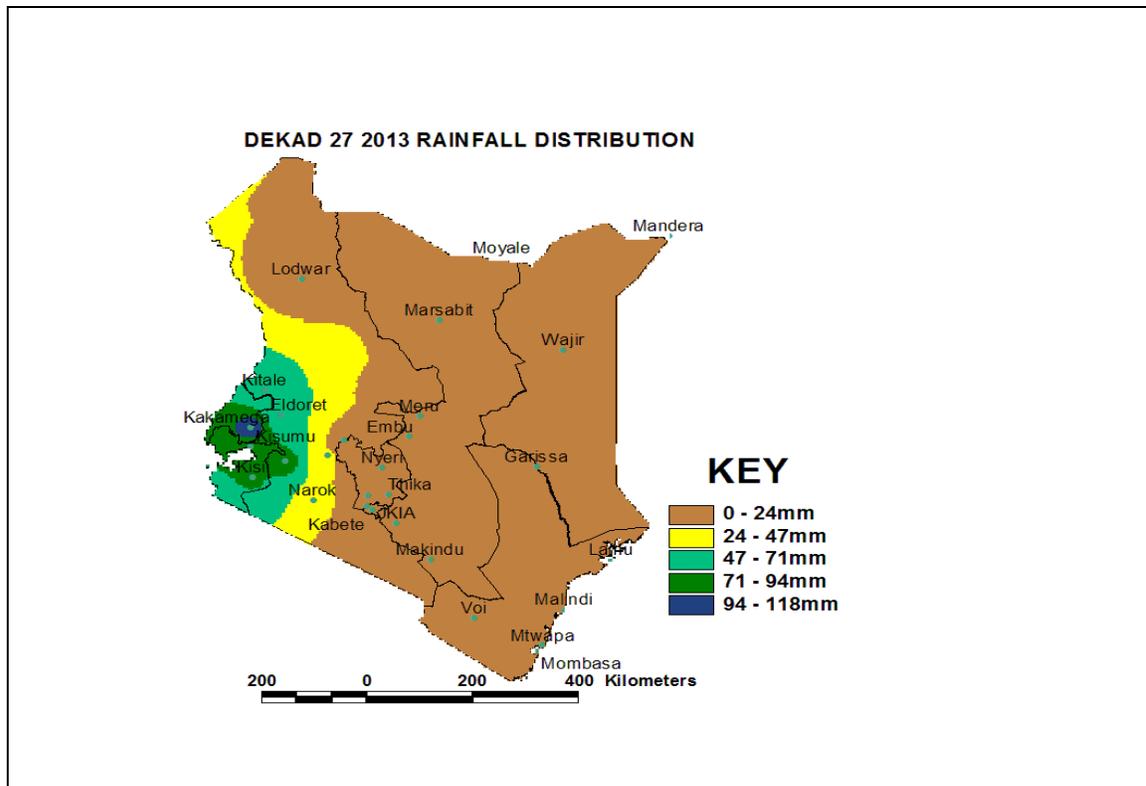


Figure 3.2: Dekadal rainfall distribution for dekad 27, 2013

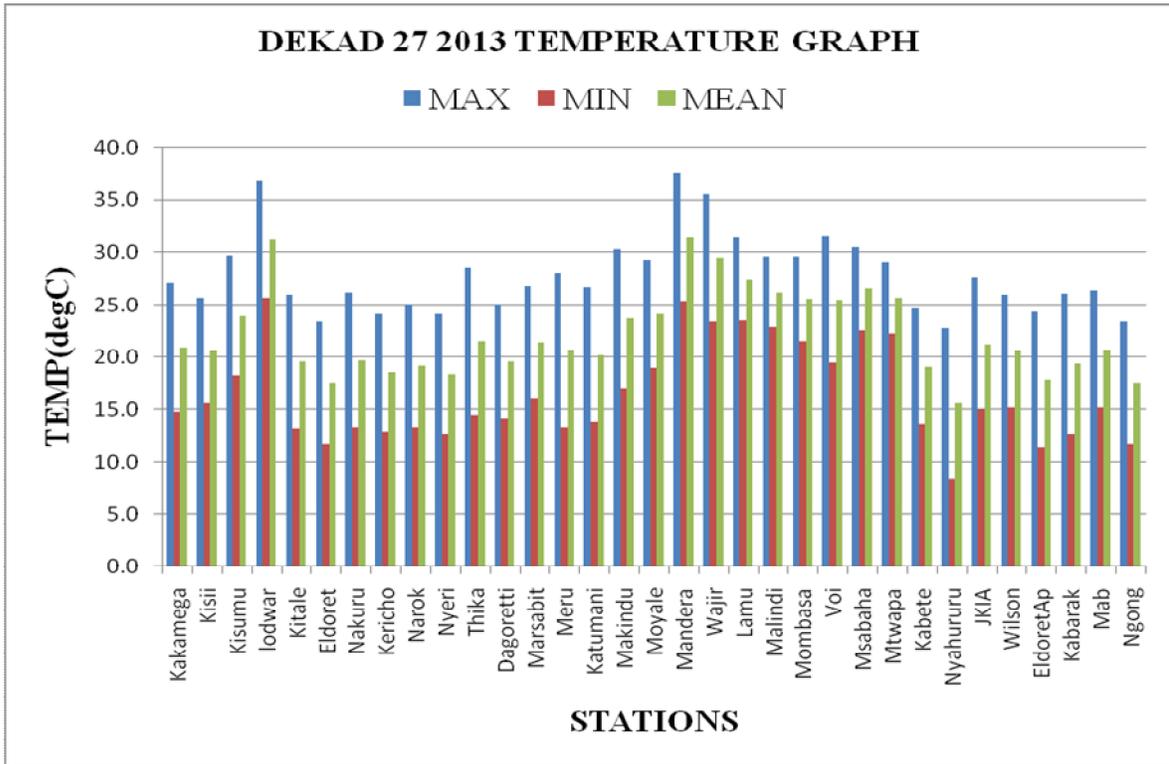


Figure 3.3: Maximum, Minimum and Average temperature in °C for dekad 27, 2013

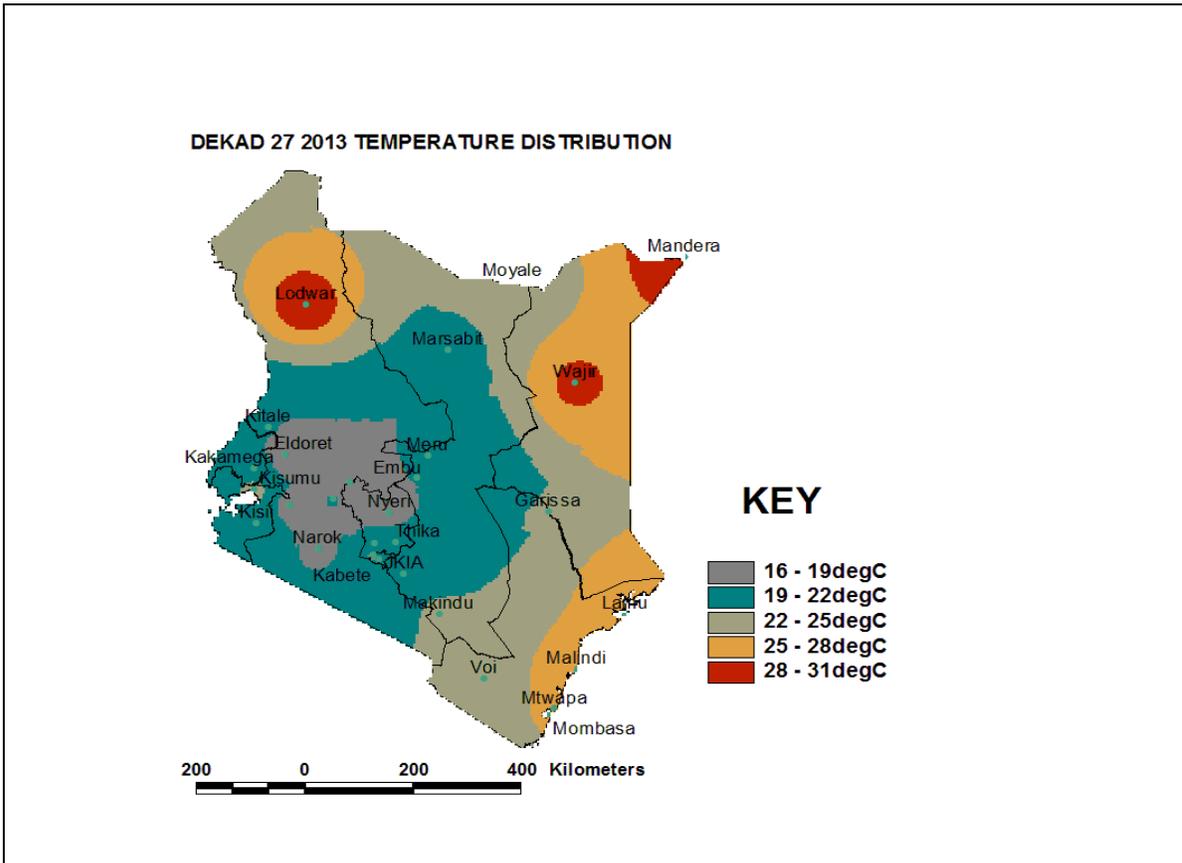


Figure 3.4: Mean temperature distribution for dekad 27, 2013

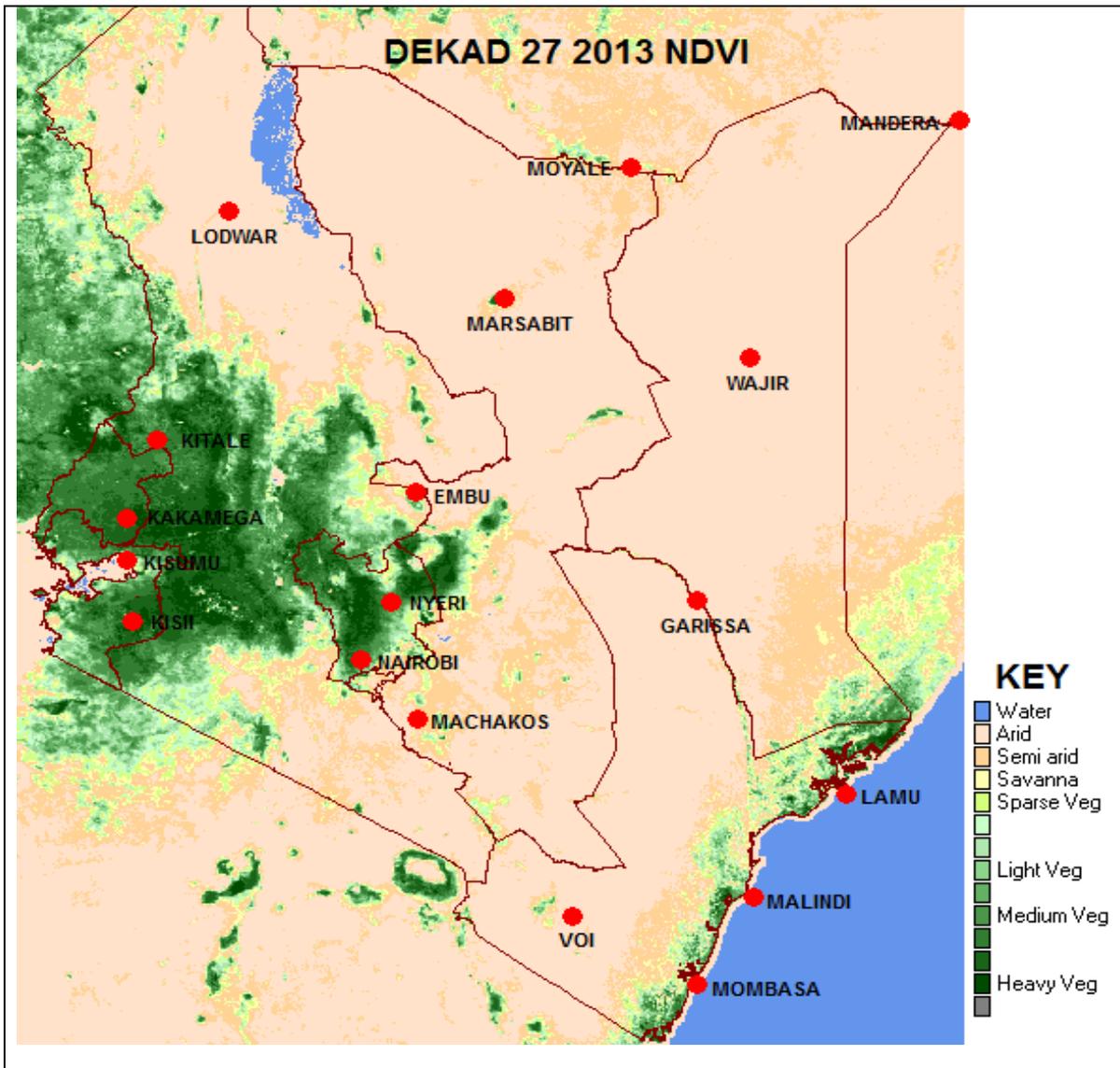


Figure 3.5: Normalized Difference Vegetation Index (NDVI)

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 01-10 OCTOBER 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, showers and thunderstorms are likely in afternoon over few places in the first three-days turning to several places for the rest of the forecast period.

These showers are expected to benefit the emerging crops in Kisii but disrupt the harvesting activities in some other parts 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 likely over few places on the last day of the forecast period.

The showers are expected to improve the pasture and vegetation conditions in these counties thereby benefiting the pastoralist.

- ✚ **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 expected over few places throughout the forecast period.

The afternoon showers are hampering the harvest of maize crop.

- ✚ **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 degenerate the state of pasture and vegetation in these counties, and may cause conflict to the people living there due to water and pasture scarcity

- ✚ **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 last two days which is expected to experience showers over few places in the afternoon.

Dry conditions might overstress 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 in the morning and sunny intervals in the afternoon throughout the forecast period.

The morning showers continue to benefit crops and vegetation in these regions.

For feedback or further guidance, Contact:

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