



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 32, 2014
11- 20 NOVEMBER, 2014**

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was a decrease in rainfall intensity and an increase in spatial distribution during the dekad. The highest rainfall activities were realized in Central region with Thika station recording 122.2mm of rainfall compared to 164.0mm received at Embu in Eastern region. The second highest rainfall of 92.8mm was received in coastal region at Mtwapa station. Makindu station in Eastern region received the highest amount of rainfall of 79.8mm. In Nairobi region, the highest rainfall amount of 68.6mm was reported at Kabete station. Kakamega station in Western region recorded the highest amount of rainfall of 45.3mm. In Nyanza region, Kisii station received the highest rainfall amount of 42.7mm. Kitale station in Rift Valley recorded the highest amount of rainfall of 31.5mm, while North Eastern region received the highest amount of rainfall of 23.0mm at Garissa station.

Maximum temperatures in most stations continued to decrease just like in the previous dekad. North-Eastern region reported the highest temperature of 35.9°C at Lodwar station compared to 36.2°C reported at same station in the same region in the previous dekad. Minimum temperatures continued to decrease with Nyahururu station in central region still reporting the lowest minimum temperature of 10.4°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 32: 11 - 20 NOVEMBER, 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded an increase in rainfall amount of 45.3mm compared to 10.3mm in the previous dekad. The mean air temperature and pan evaporation reported were 21.2°C and 4.0mm respectively. There was no report on Sunshine duration.

Beans were at harvesting stage and in good state with normal yield expected.

2.1.2 Kisii

The station reported a reduction in rainfall amount of 42.7mm compared to 57.4mm recorded in the previous dekad. The mean air temperature and Pan Evaporation recorded were 20.3°C and 3.1mm respectively. There was no record on Sunshine parameter.

Maize crop was at flowering stage and in fair state with normal yield expected.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 31.5mm. Pan Evaporation recorded was 3.4mm. There was no report on mean air temperature and sunshine duration.

No phenological report.

2.2.2 Eldoret-Kapsoya

The station recorded rainfall amount of 7.4mm. The mean air temperature and Pan Evaporation recorded were 17.2°C and 4.6mm respectively. There was no record on sunshine duration.

Maize was at harvest stage and in poor state hence below normal yield is expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 53.1mm. The average air temperature was 18.3°C. There was no report on pan evaporation and sunshine parameters

Both maize and beans crops were at emergence stage and in fair state though beans had been adversely affected by leaf hoppers.

2.3.2 Kabete

The station recorded rainfall amount of 68.6mm. There were no report on mean air temperature, Pan Evaporation and sunshine parameters.

Farmers have finished planting.

2.3.3 Thika

The station recorded rainfall amount of 122.2mm. The mean air temperature and Pan Evaporation recorded were 20.6°C and 3.9mm respectively. There was no report on sunshine duration.

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

2.3.4. Nyahururu

The station reported rainfall amount of 1.8mm. The mean air temperature and Pan Evaporation recorded were 15.1°C and 3.7mm respectively. There was no report sunshine duration.

Maize was still at maturity stage and in fair state. Potatoes were at flowering stage and in fair state. Normal yield for both crops is expected.

2.3.5. Dagoretti

The station reported rainfall amount of 45.5mm. Sunshine recorded was 6.1hrs/day. There was no report on average air temperature and Pan Evaporation.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded rainfall amount of 31.2mm. The average air temperature recorded was 18.5°C. The Sunshine duration reported was 5.9 hr/day. There was no report on pan evaporation.

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

2.4.2 Embu

The station recorded rainfall amount of 56.6mm. Pan Evaporation reported was 3.8mm. There was no report on mean air temperature and sunshine parameters.

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

2.4.3 Katamani (Machakos)

The station reported rainfall amount of 53.6mm. The average air temperature reported was 19.5°C. There was no report on pan evaporation and Sunshine parameters.

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 20.7mm. The average air temperature and pan Evaporation recorded were 27.4°C and 3.7mm respectively. There was no report on sunshine duration.

Maize was still at emergence stage and in fair state. Mangoes were at 100% fruit setting stage and in good state.

2.5.2 Mtwapa

The station received rainfall amount of 92.8mm. The average air temperature recorded was 26.7°C. There was no report on pan Evaporation and Sunshine duration parameters.

Maize was at emergence stage and in good state while mangoes were still at flowering stage and also in good state. Weeding and planting still going on.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

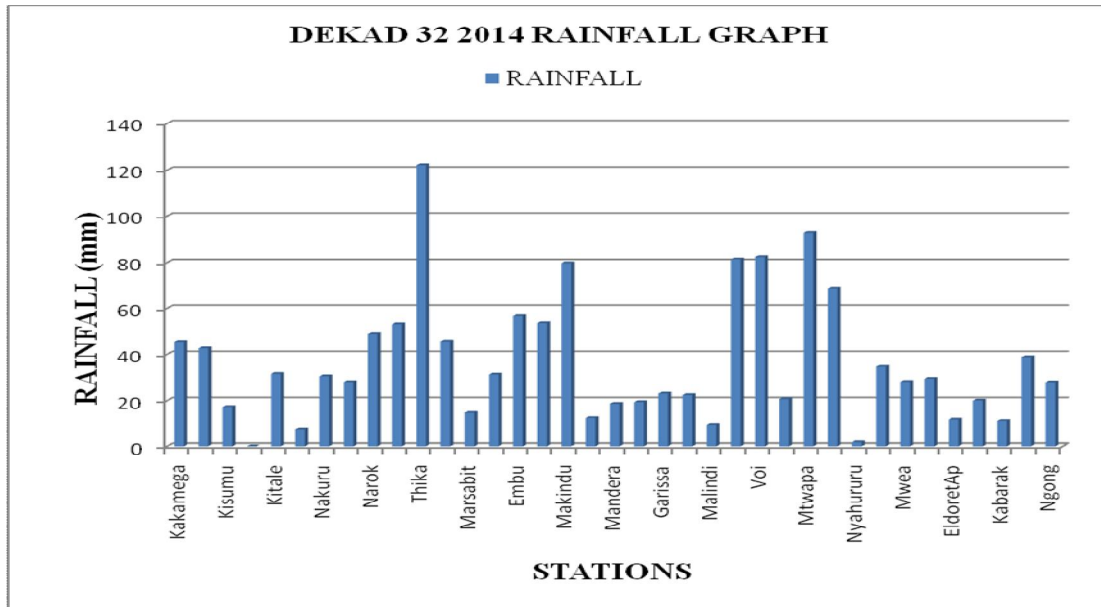


Figure 3.1: Dekadal rainfall totals for 11 - 20 NOVEMBER 2014

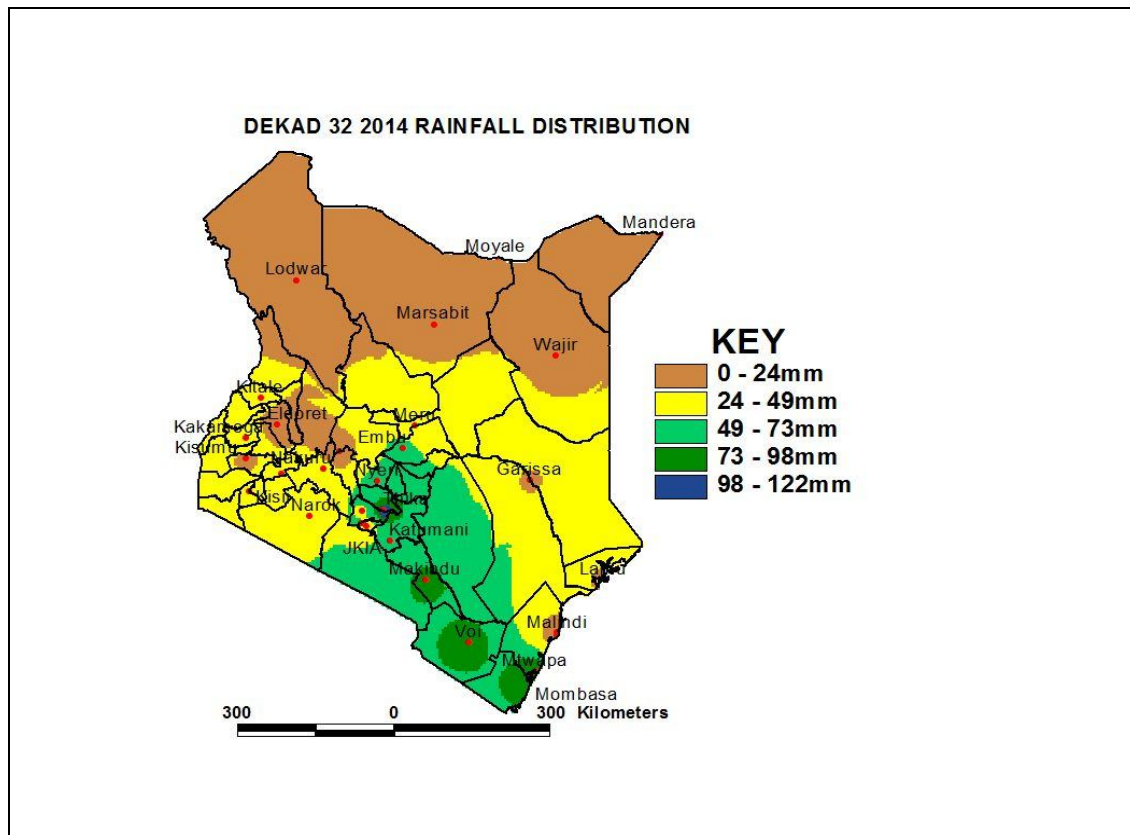


Figure 3.2: Dekadal rainfall distribution for dekad 32, 2014

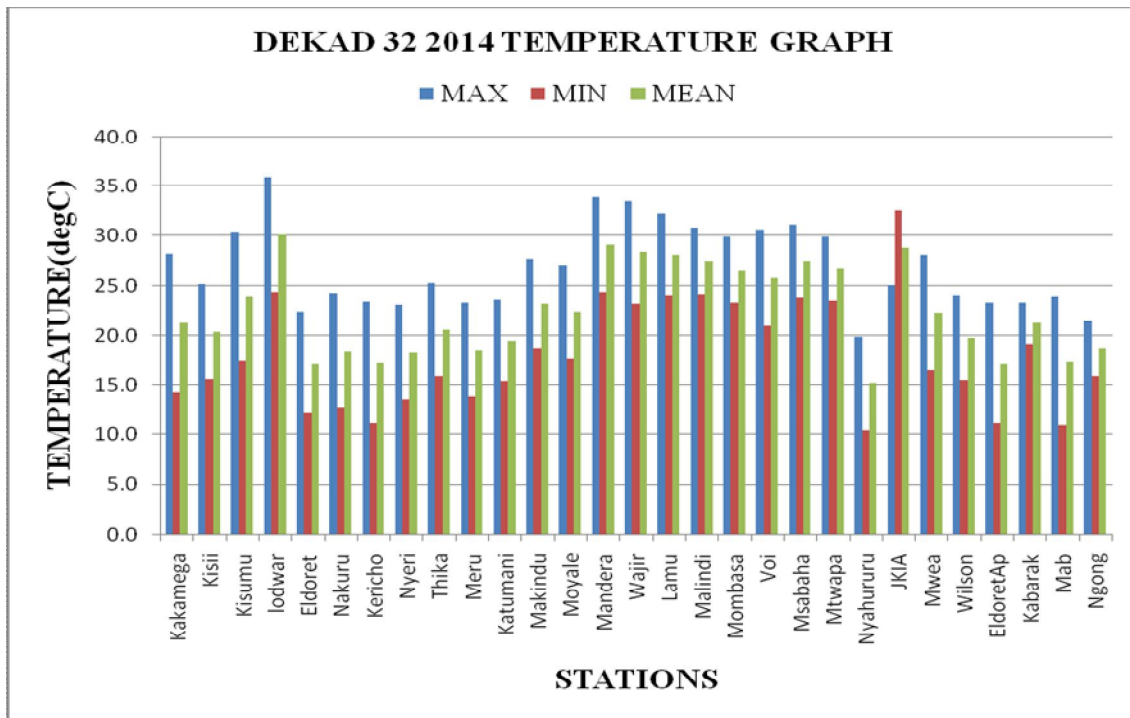


Figure 3.3: Maximum, Minimum and Average temperature for dekad 32, 2014.

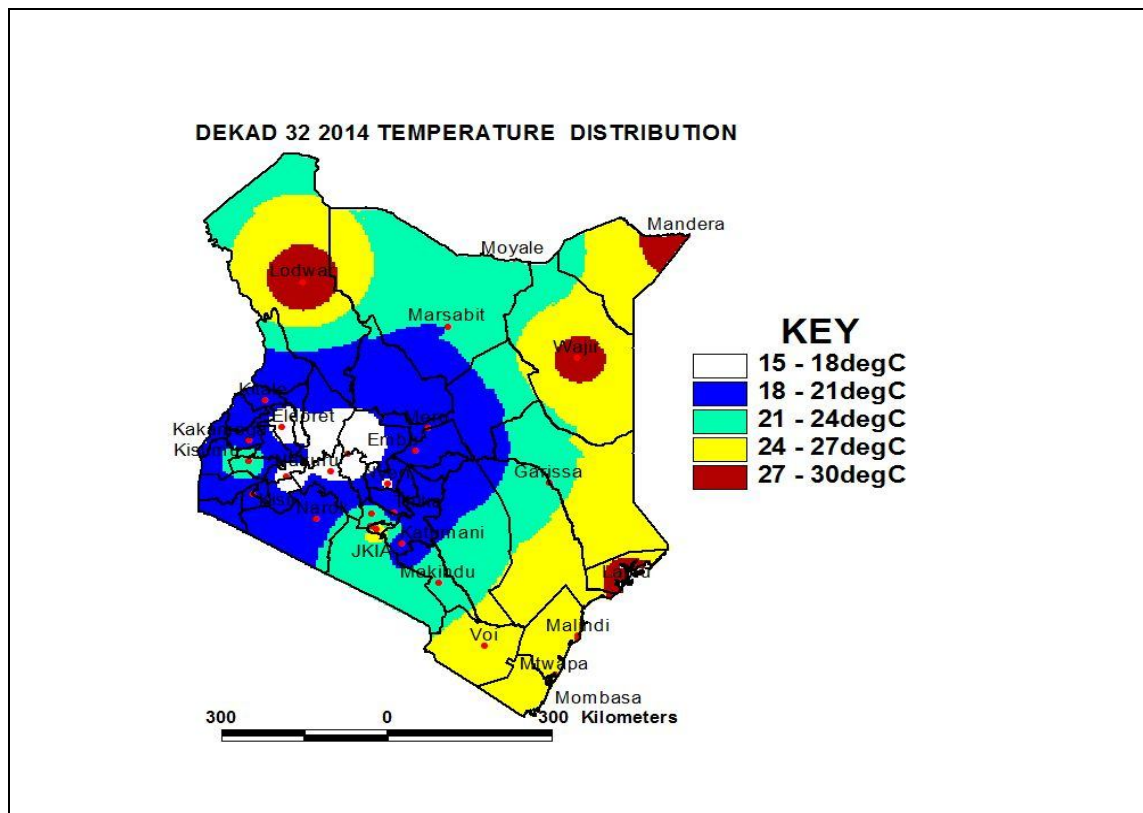


Figure 3.4: Mean temperature distribution for dekad 32, 2014

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;
21-30 NOVEMBER 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 on the 6th day. On the 7th and 8th day, there will be morning rains over several places while the remaining days will experience morning rains over few places. Showers and thunderstorms are expected in the afternoon/evening over few places on the 6th day increasing to several places for the rest of the forecast period.

The rains and showers will boost soil moisture that will be beneficial to the growth and development of Maize crop that are still in flowering stage in places like Kisii, it will also favour the growth of pasture and vegetation that will support livestock keeping.

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals in the morning throughout the forecast period. Afternoon/evening showers and thunderstorms are expected over few places on the 7th and 8th day.

The showers will continue to replenish the growth of pasture and vegetation to benefit the livestock kept 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 cloudy early mornings with rains over several places for much of the forecast period. Afternoon/evening showers over several places are expected throughout the forecast period.

The rains and showers will replenish soil moisture that will benefit the crops like maize that is in emergence stage in places like Nyeri, Embu etc. For the maize that is at the maturity stage, there is likelihood of being affected by aflatoxin.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience morning rains over several places from 5th to 7th day and sunny intervals on the 8th day reducing to few places on the 9th day and sunny intervals thereafter.

The rains are of great importance to the pasture and vegetation growth that mainly sustain livestock keeping in this region.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience sunny intervals in the morning at the beginning of the forecast period and morning rains on the second half of the forecast period. Afternoon/evening showers over few places are expected on the 5th, 8th and 9th days of the forecast period increasing to several places on the last two days.

The rains and showers are of great benefit to maize crop that is in the emergence stage and to the pasture and vegetation growth for livestock rearing in this region.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** are expected to experience showers over few places in the morning on the 5th, 8th and 9th days of the forecast period increasing to several places on the last two days. Sunny intervals are expected in the afternoon throughout the forecast period except on the last two days when there will be showers over several places.

The sunny conditions will be beneficial to the development of mangoes that are in flowering and fruit setting stages in the north coast, while the showers will be beneficial to the growth and development of maize crop that is in the emergence stage in places like Msabaha and Mtwapa.

For feedback or further guidance, Contact:

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