



KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 2,11TH – 20TH JANUARY, 2017

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities have increased in intensity but decreased in spatial distribution. Nyeri station in Central region reported the highest rainfall amount of 21.4mm compared to 12.3 mm recorded in Kakamega station in Western region in the last dekad. Nyanza region received the highest rainfall amount of 2.4 mm at Kisii station. Voi station in the Coastal region reported the highest rainfall amount of 0.01mm. Nairobi, Eastern, North Eastern, Western and the Rift valley regions reported dry conditions.

Maximum temperatures have continued to increase while there was a drastic decrease in Minimum temperatures. Lodwar station in North Eastern region continued to record the highest Maximum temperature of 36.9°C compared to 36.7°C reported in the same station in the last dekad. The lowest minimum Temperature of 4.4°C was recorded in Nyahururu station in Central region compared to 8.6°C reported at Eldoret Airport station.

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 1,1ST TO 10TH JANUARY, 2017

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station reported dry conditions. Total Pan Evaporation was 63.5 mm. There was no report on mean air temperature.

Land preparation is underway.

2.1.2 Kisii

The station reported total rainfall amount of 2.4mm. The mean air temperature and total Pan Evaporation recorded were 23.4°C and 52.4mm respectively.

Maize is at harvest stage; in poor state and below normal harvest is expected.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station reported dry conditions. Total Pan Evaporation reported was 57.0mm. There was no report on mean air temperature.

No phenological report

2.2.2 Eldoret - Kapsoya

The station reported dry conditions. The mean air temperature and Total Pan Evaporation were 18.3°C and 74.0mm respectively.

No phenological report

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

Total amount of rainfall recorded was 21.4mm. The average air temperature reported was 17.8°C. There was no report on Total Pan Evaporation.

Maize and beans were at emergence and flowering stages respectively. Both were in failure state due to insufficient rain and attack by insects which have affected the beans.

2.3.2 Kabete

The station reported dry conditions. Total Pan Evaporation was 55.5mm. There was no report on mean air temperature.

Maize and Beans were both adversely affected by too much sun and below normal yield is expected.

2.3.3 Thika

The station reported dry conditions. The average air temperature and Total Pan Evaporation recorded were 19.2°C and 57.0mm respectively.

Maize and beans were at flowering stage and were wilting due to too much sun hence below normal yield is expected.

2.3.4 Nyahururu

The station recorded 0.01mm of rainfall. The mean air temperature and Total Pan Evaporation recorded were 14.1°C and 56.5mm respectively.

Harvesting of maize is complete

2.3.5 Dagoretti

The station reported dry conditions. Total pan evaporation was 64.0mm and there was no report on Mean air temperature.

No Phenological report.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station reported dry conditions. There was no report on Mean air temperature and Total Pan Evaporation.

Maize and beans were both at flowering stages. Both crops were in poor condition due to insufficient rain and below normal yield is expected.

2.4.2 Meru

The station reported dry conditions. Total Pan Evaporation was 46.5mm and the Mean air Temperature was 17.9°C.

Maize and beans were at emergence and flowering stages respectively. Both crops are wilting due to insufficient rain and there is total crop failure.

2.4.3 Katumani (Machakos)

The station reported dry conditions. The mean air temperature and Total Pan Evaporation reported were 20.1°C and 76.0mm respectively.

The Maize crop is wilting at flowering stage and the beans have hastened to maturity due to too much sun.

2.5 COASTAL REGION

2.5.1 Msabaha

The station reported dry conditions. Total Pan Evaporation reported was 52.0mm. There was no report on mean air Temperature.

The Maize crop has dried up due to too much sun.

2.5.2 Mtwapa

The station continued to report dry conditions. The Mean air temperature and total pan evaporation reported were 27.5°C and 66.5mm respectively.

Mangoes are being harvested and sold to the local markets.

3. ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

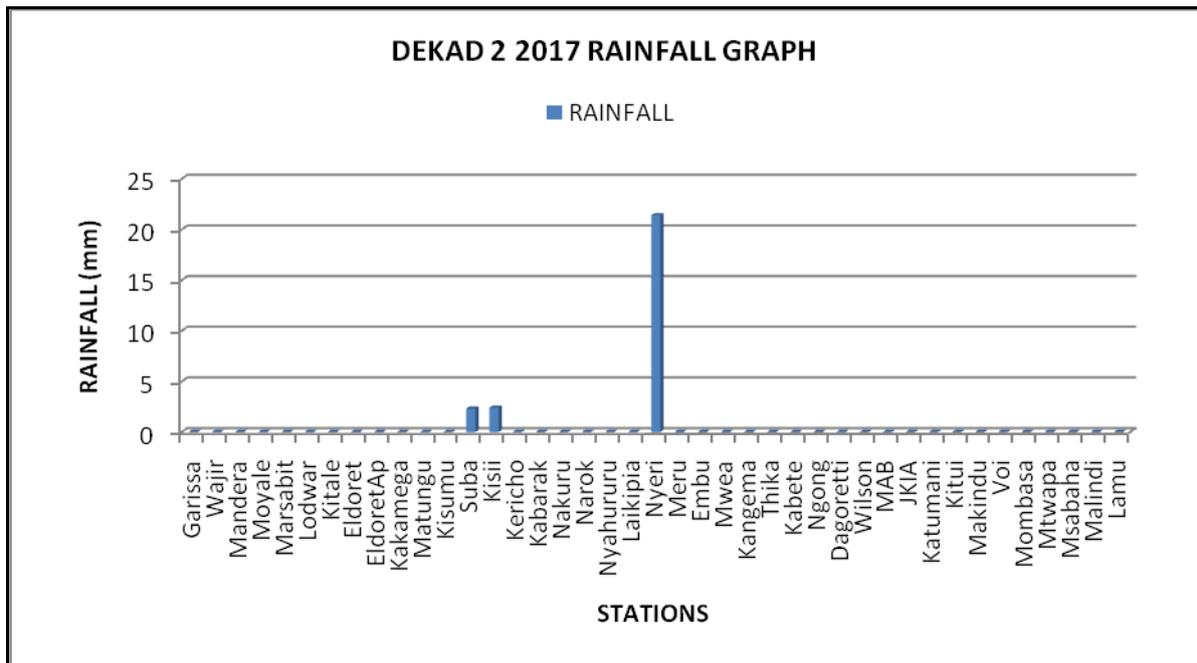


Figure 3.1: Dekadal rainfall totals for dekad 2, 2017

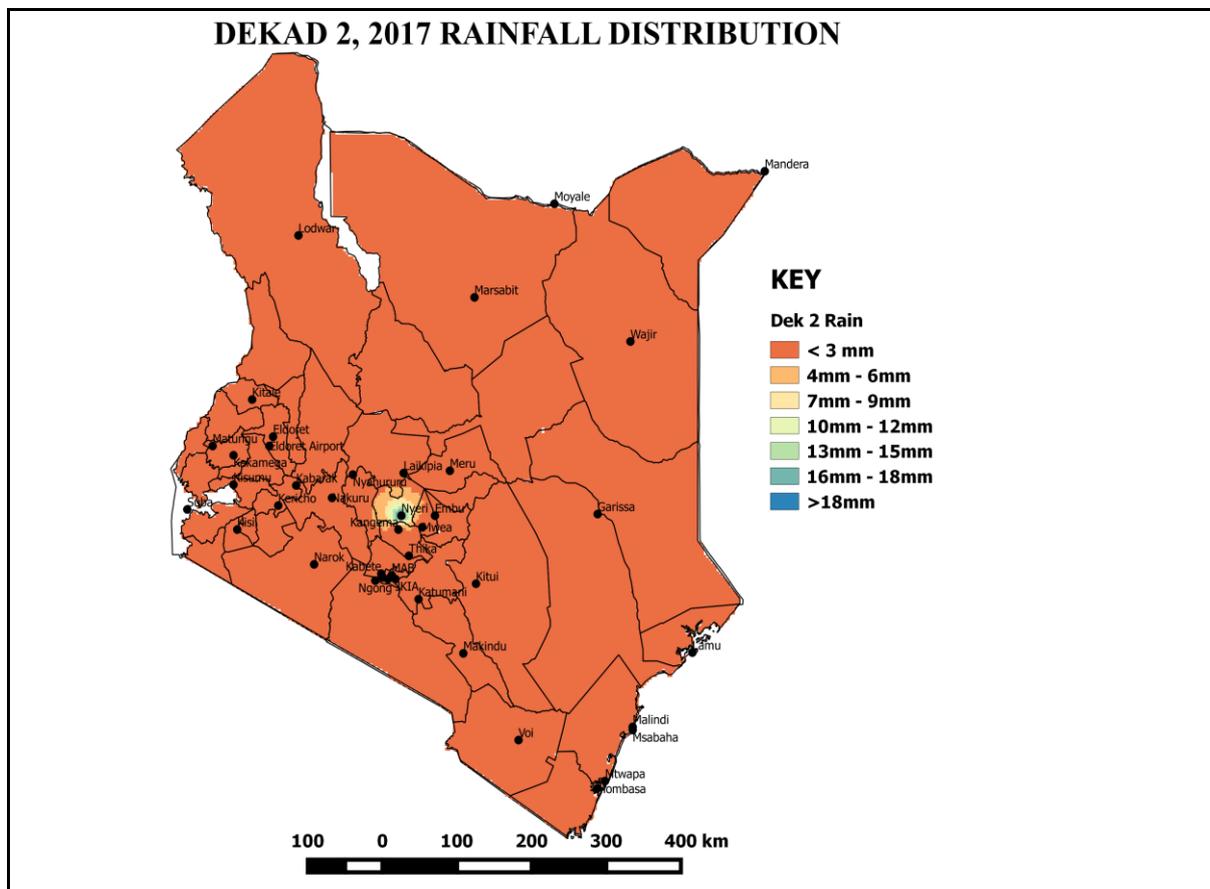


Figure 3.2: Dekadal rainfall distribution for dekad2, 2017

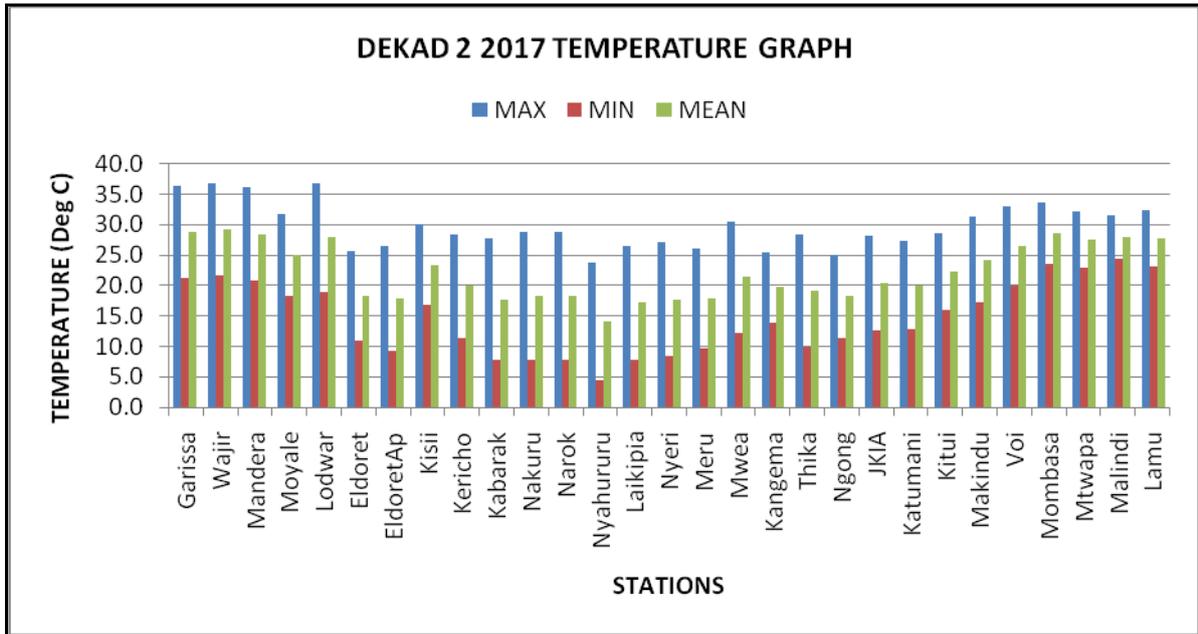


Figure3.3: Maximum, Minimum and Average temperature for dekad 2, 2017

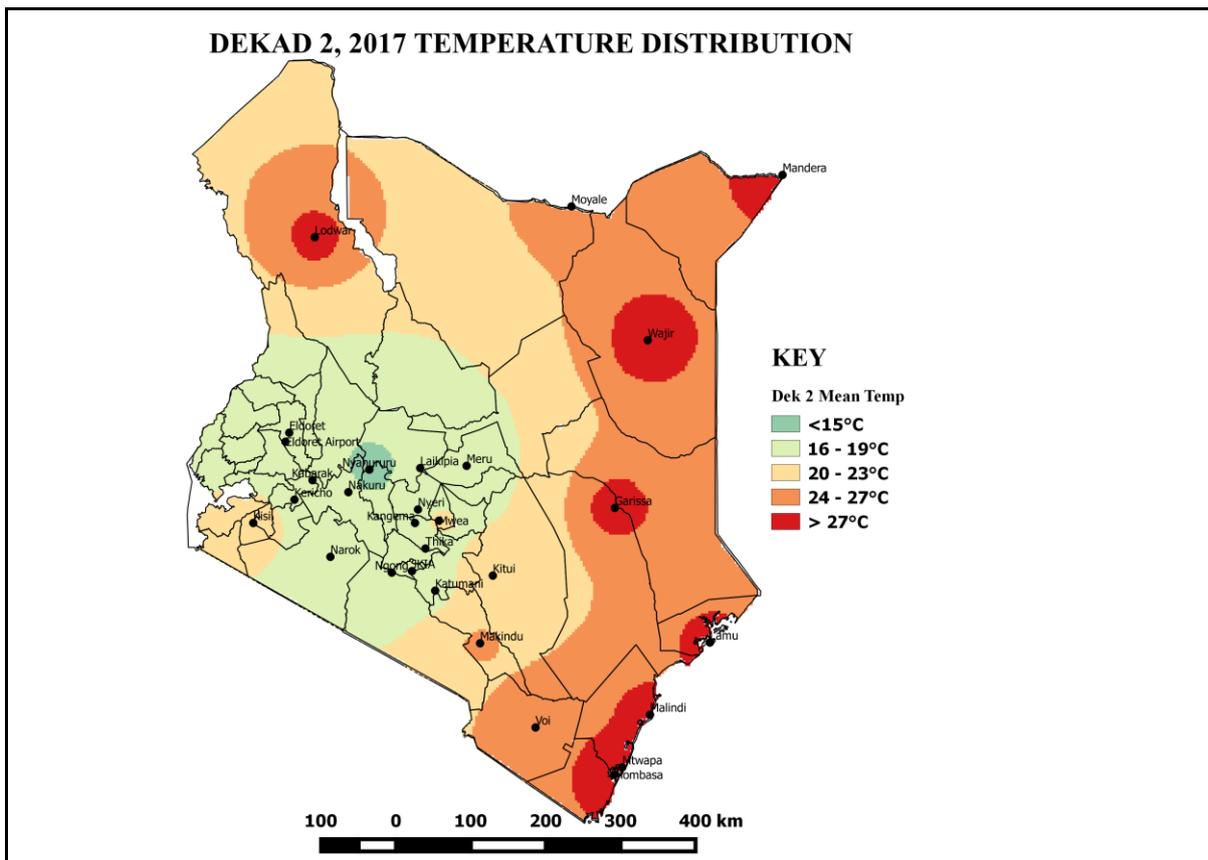


Figure 3.4: Mean temperature distribution for dekad 2, 2017

**4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;
21st to 31st January 2017.**

- ❖ **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 mainly sunny intervals the entire day throughout the forecast period except on the fifth and the tenth day when chances of showers over few places in the afternoons are expected.

The dry conditions will have a negative effect on the vegetation in that region.

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals the entire day throughout the forecast period.

The sunny conditions will have a negative impact on the pasture and vegetation for livestock kept 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 sunny intervals the entire day throughout the forecast Period except on the eighth, ninth and the tenth days of the forecast period when there is expected showers over few places in the afternoon.

The sunny conditions will adversely affect the crops that are in Emergence and flowering stages in places like Kabete, Nyeri and Thika.

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

The sunny conditions will have a negative impact on the pasture for the animals kept in the region.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)** are expected to experience sunny intervals in the morning throughout the forecast period. However, Afternoon showers over few places are expected from the fifth day to the end of the forecast period.

The showers will be of great advantage to the vegetation and pasture for the animals kept in these areas.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)** are expected to experience sunny intervals the entire day throughout the forecast period except the eighth day to the end of the forecast period when there are chances of showers over few places in the morning.

The showers will benefit the pasture in this region.

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