



**KENYA METEOROLOGICAL DEPARTMENT  
DEKADAL AGROMETEOROLOGICAL BULLETIN  
WEATHER AND CROP REVIEW FOR DEKAD 7, 1<sup>ST</sup> – 10<sup>TH</sup> MARCH, 2019.**

**HIGHLIGHTS ON RAINFALL AND TEMPERATURE.**

There was a drastic increase in rainfall activities in intensity and a reduction in spatial distribution. Day-time (maximum) temperatures increased drastically while Minimum temperatures were also still on an increasing trend. Nyanza region received the highest rainfall amount of rainfall of 152.1, 82.8, and 66.3 mm at Kisii, Suba and Kisumu stations respectively; compared to 94.7 mm reported at Kisumu station in Nyanza region in the previous dekad. Rift valley region reported the highest rainfall amount of 57.8 mm at Kericho Station. Kakamega and Matungu stations in Western region reported the highest rainfall amount of 55.0 and 37.9 mm respectively. Eastern region recorded the highest rainfall amount of 25.6 mm at Meru station. Thika station in Central region reported the highest rainfall amount of 16.9 mm. Nairobi region received the highest rainfall amount of 8.3 and 7.1 mm at Ngong and Jomo Kenyatta Airport Stations respectively. Most stations in Coastal and North Eastern regions reported dry conditions with Voi and Moyale stations recording only 0.5 and 0.3 mm of rain respectively.

Both maximum and minimum temperatures increased during the dekad. The highest Maximum temperature of 39.8 °C was recorded at Mandera station in North - Eastern region compared to 38.8 °C reported at the same station in the previous dekad.

Nyahururu station in Central region continued to record the lowest Minimum temperature of 6.6°C.

For a more comprehensive summary of rainfall and other meteorological parameters, see Figures 3.1 to 3.4 as shown below.

**CROP AND WEATHER REVIEW FOR DEKAD 7, 1<sup>ST</sup> – 10<sup>TH</sup> MARCH 2019.**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station recorded total rainfall amount of 55.0 mm. Mean air temperature recorded was 22.8°C. There were no report on total Pan Evaporation.

*Planting is still underway and some maize and beans crops have started germinating.*

**2.1.2 Kisii**

The station reported total rainfall amount of 152.1 mm. The mean air temperature recorded was 21.5C. Total Pan Evaporation recorded was 55.5mm.

*Planting is still underway and maize and beans crops have started germinating in some farms.*

## **2.2 RIFT VALLEY REGION.**

### **2.2.1 Kitale.**

The station received rainfall amount of 30.7 mm. The mean air temperature was 20.9°C. There was no report on total Evaporation Pan.

*Land preparation on going on some farms*

### **2.2.2 Eldoret – Kapsoya.**

The station received 15.2mm of rainfall. Mean air temperature recorded was 19.3°C. Total Pan Evaporation reported was 66.1mm.

*Land preparation is on-going on some farms.*

## **CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.**

### **2.3.1 Nyeri**

The station received 2.9mm of rain. There was no report on Mean air temperature and total Evaporation Pan.

*Land preparation is still on-going in in some farms.*

### **2.3.2 Kabete**

The station received rainfall amount of 2.9 mm. Total Pan Evaporation recorded was 22.5mm. There was no report on Mean air temperature.

*Land Preparation is still underway.*

### **2.3.3 Nyahururu**

The station received 5.6 mm of rain. The mean air temperature recorded was 16.3<sup>0</sup>C. There was no report on total Pan Evaporation.

*Land Preparation is still ongoing.*

### **2.3.4 Dagoretti**

The station recorded rainfall amount of 3.6 mm. Mean air temperature was 21.8 <sup>0</sup>C. Total Pan Evaporation recorded was 30.8 mm.

*There was no Phenological report.*

### **2.3.5 Thika**

The station received 16.9 mm of rain. Total Pan Evaporation recorded was 70.7 mm. There was no report on Mean Air temperature.

*Land preparation is still underway.*

## **2.4 EASTERN REGION.**

### **2.4.1 Embu**

The station reported dry conditions. There was no report on Mean Air Temperature. Total Pan Evaporation recorded was 69.0mm.

*Land preparation still underway.*

### **2.4.2 Meru**

The station continued to report dry conditions. Mean air temperature was 19.0 °C and there was no report on Pan Evaporation.

*Land preparation is still ongoing.*

### **2.4.3 Katumani (Machakos)**

The station recorded 8.4 mm of rain. Mean air temperature was 21.9 °C. Total Pan Evaporation recorded was 36.7mm.

*Maize crop harvesting still going on and some farmers have started land preparation.*

## **2.5 COASTAL REGION.**

### **2.5.1 Msabaha**

The station recorded 0.02 mm of rain. Total Pan Evaporation recorded was 56.0mm. There was no report on mean Air Temperature.

*Most farmers are preparing their land.*

### **2.5.2 Mtwapa**

The station continued to report dry conditions. The mean Air temperature recorded was 29.2°C. Total Pan Evaporation recorded was 70.5mm.

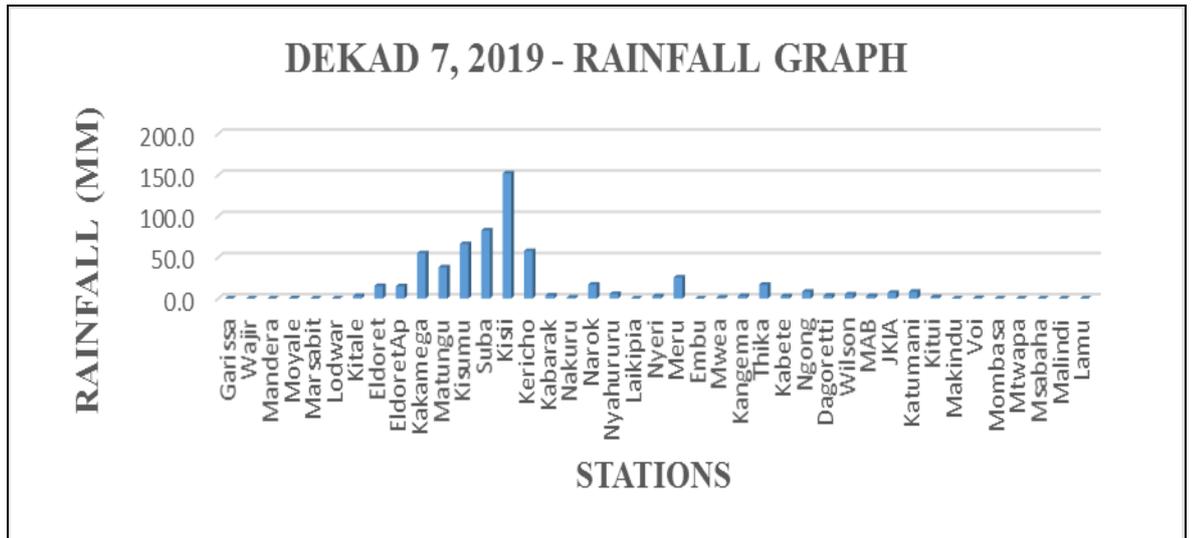
*Most farmers are preparing their land. Mangoes are flowering*

### **2.5.3 Lamu**

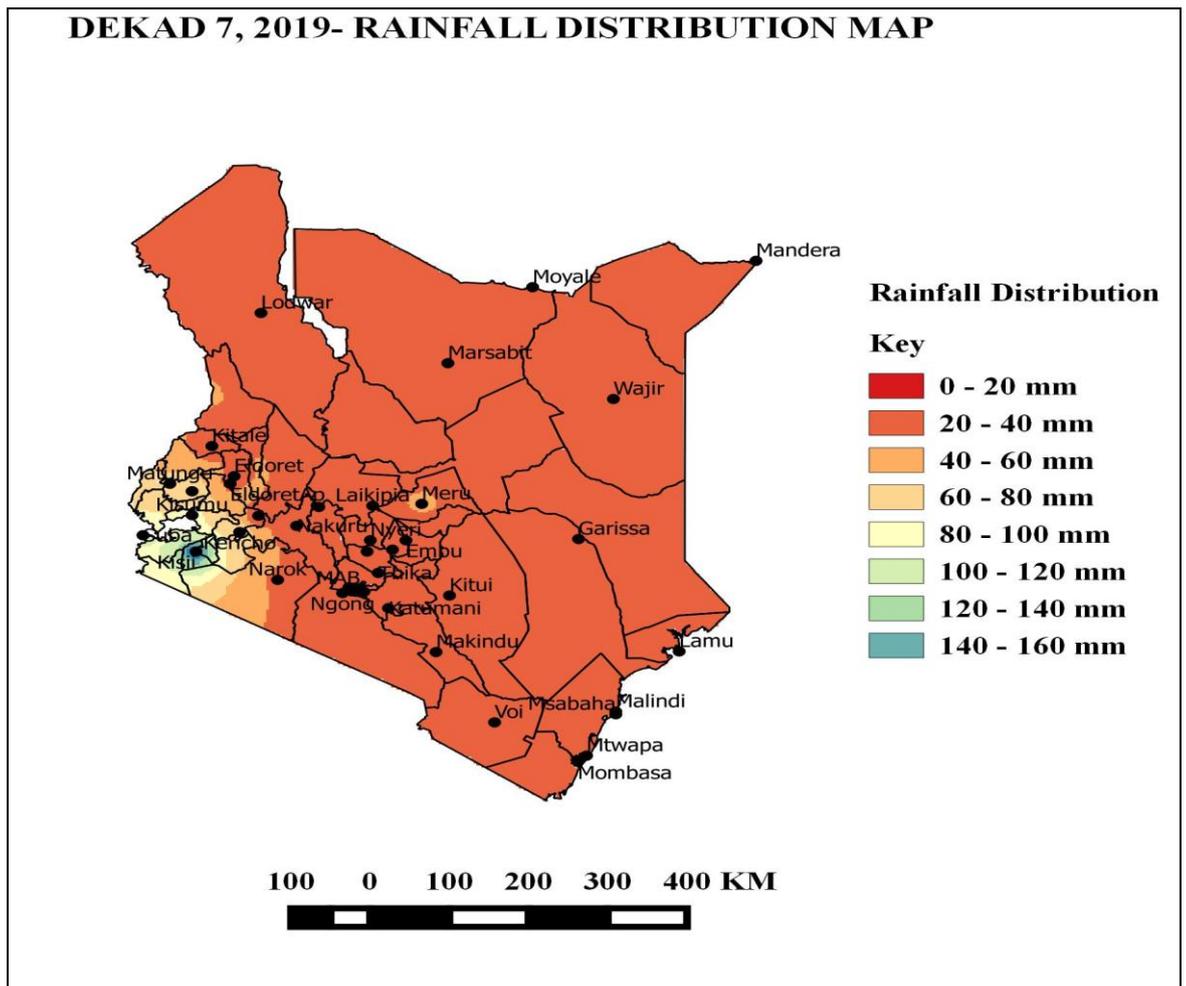
The station reported dry conditions. The Mean air temperature recorded was 28.9 °C. There was no report on total Pan Evaporation.

*Most farmers are preparing their land.*

**ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.**



**Figure 3.1: Dekadal rainfall totals for dekad 7, 2019.**



**Figure 3.2: Dekadal rainfall distribution for dekad 7, 2019.**

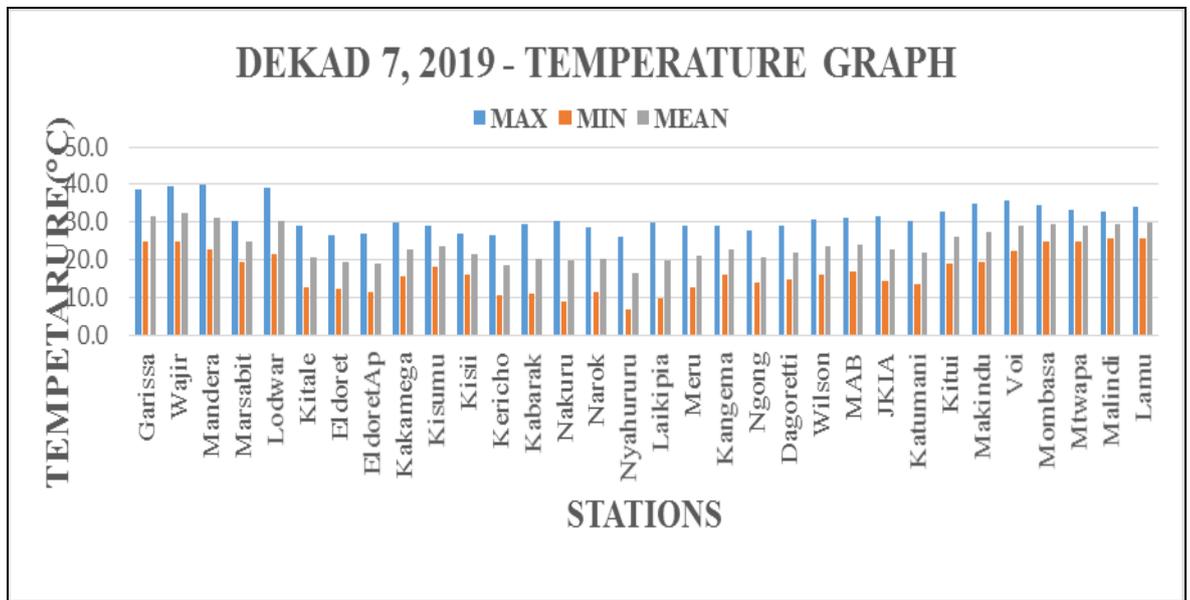


Figure 3.3: Maximum, Minimum and Average temperature for dekad 7, 2019.

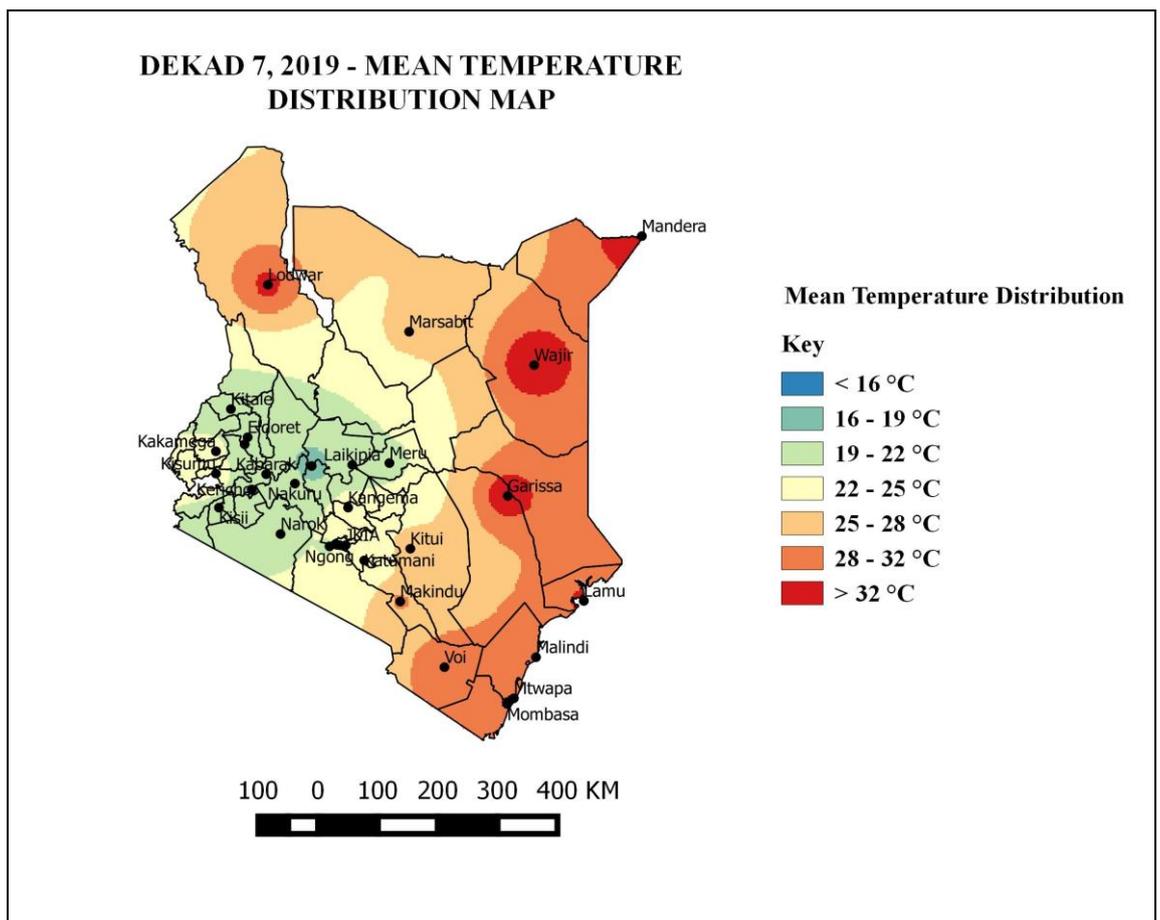


Figure 3.4: Mean temperature distribution for dekad 7, 2019.

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11<sup>TH</sup>– 20<sup>TH</sup>, MARCH 2019**

**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),** Mornings are expected to experience sunny intervals throughout the forecast period. Afternoons are expected to experience mainly possibility of showers and thunderstorms over few places during the forecast period

*The showers will have a positive impact on the crops that are at emergence and maturity stages in places like Kakamega and Kisii.*

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

*The continued sunny conditions has impacted negatively on the pasture and vegetation for the animals kept in this region.*

**The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga),** Mornings are expected to experience sunny intervals the entire day throughout the forecast period. Afternoons are expected to experience mainly showers over few places high ground areas during the forecast period

*Sunny intervals is needful for the current land preparation.*

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

*The dry conditions will continue to have a negative impact on the pasture in the region.*

**South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience sunny conditions the entire day of the forecast period.

*Sunny intervals is needful for the current land preparation.*

**Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.)** Are expected to experience sunny conditions the entire day of the forecast period.

*Sunny intervals is needful for the current land preparation*

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For feedback or further guidance, Contact:

Director,  
Kenya Meteorological Department,  
Agro meteorological Advisory Services Division,  
Dagoretti Corner, Ngong Road,  
P.O. Box 30259, 00100 GPO, Nairobi  
Tel: +254 (0)20 3867880-7/3876957/3873682;  
Fax: +254 (0)20 3876955  
E-mail: [agromet@meteo.go.ke](mailto:agromet@meteo.go.ke);  
Website: [www.meteo.go.ke](http://www.meteo.go.ke)

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