



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 23, 11TH -20TH AUGUST, 2017

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities continued to decrease both in intensity and spatial distribution. The highest rainfall of 77.5mm was recorded at Kakamega station in Western region compared to 97.8mm reported at Eldoret Kapsoya station in Rift Valley region in the previous dekad. The second highest rainfall of 75.8mm was received at Eldoret Airport station in Rift Valley region. Central region received the highest rainfall amount of 32.4mm at Nyahururu station. Lamu station in the Coastal region reported the highest rainfall amount of 29.7mm. Nyanza region recorded the highest rainfall amount of 27.4mm at Kisii station. Embu station in the Eastern region recorded the highest rainfall amount of 16.6mm. North Eastern region received the highest rainfall amount of 14.3mm at Moyale station; while Moi Air Base station in Nairobi region reported 5.3mm of rainfall.

Maximum and Minimum temperatures were still on increasing and decreasing trend respectively. Lodwar station in the North Eastern region recorded the highest maximum temperatures of 35.3°C compared to 34.2°C reported at Mandera station in the previous dekad. Nyahururu station in Central region continued to record the lowest minimum temperatures of 7.4°C compared to 8.8°C reported at same station in the previous dekad.

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 23, 11TH- 20TH AUGUST, 2017

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

Total rainfall amount recorded was 77.5mm. The mean air temperature total pan evaporation reported were 21.2°C and 30.7mm respectively. There was no report on sunshine duration.

Some farmers have planted Beans and Maize crops which are in germination stage.

2.1.2 Kisii

The station received total rainfall amount of 27.4mm. The mean air temperature and total Pan Evaporation recorded were 20.5°C and 38.4mm respectively. There was no report on sunshine duration.

Planting is still underway.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded total rainfall amount of 47.5mm. The mean air temperature and total pan evaporation recorded were 19.1°C and 29.0mm respectively. Sunshine duration was 6.9 hrs/day.

Maize crop is at maturity stage and in good state hence normal yield is expected.

2.2.2 Eldoret - Kapsoya

The station reported total rainfall amount of 55.7mm. The mean air temperature and total Pan Evaporation recorded were 16.9°C and 54.2mm respectively. There was no report on sunshine duration.

Maize was at flowering stage and in good state hence normal yield is expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station reported 7.6mm of rainfall. The mean air temperature recorded was 17.5 °C. There was no report on total Pan Evaporation and sunshine duration.

Maize was at flowering stage and in poor state due to insufficient rain, insects and stalk borer. Hence below normal yield is expected.

2.3.2 Kabete

The station reported 3.5mm of rainfall. Total Pan Evaporation and Sunshine duration recorded were 31.4mm and 5.6hrs/day respectively. There was no report on mean air temperature.

Maize and beans were at harvesting stage and in good condition, hence normal yield is expected.

2.3.3 Nyahururu

The station recorded 32.4mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 14.5°C and 33.4mm respectively. There was no report on sunshine duration.

Maize were at emergence and in fair state; while Potatoes were in flowering stage and in fair condition, hence normal yield is expected.

2.3.4 Dagoretti

The station received 3.0mm of rainfall. The mean air temperature and total pan evaporation reported were 18.3°C and 35.4mm respectively. Sunshine duration was 5.1 hrs/day.

No Phenological report.

2.3.5 Thika

The station reported 0.2mm of rainfall. Total pan evaporation and Sunshine duration recorded were 34.7mm and 4.8hrs/day respectively. There was no report on mean air temperature.

Harvesting of crops is over.

2.4 EASTERN REGION

2.4.1 Embu

The station reported 16.6mm of rainfall. Total Pan Evaporation and Sunshine duration recorded were 30.6mm and 15.5hrs/day respectively. There was no report on mean air temperature.

Maize was still at flowering stage and in fair condition hence normal yield is expected.

2.4.2 Meru

The station recorded 3.0mm of rainfall. Mean Air Temperature and total Pan Evaporation recorded were 18.7°C and 39.0mm respectively. Sunshine duration reported was 8.5 hours per day.

Land preparation for next season is underway.

2.4.3 Katamani (Machakos)

The station reported 0.01mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 18.8°C and 51.5mm respectively. The mean sunshine duration recorded was 7.5 hours per day.

Harvesting of crops is still underway.

2.5 COASTAL REGION

2.5.1 Msabaha

Total amount of rainfall received was 27.9mm. Total Pan Evaporation recorded was 38.4mm. There was no report on mean air temperature and Sunshine duration.

Some farmers are still harvesting their Maize crop.

2.5.2 Mtwapa

The station reported total rainfall amount of 17.7mm. The mean air temperature and total pan evaporation recorded were 25.9°C and 45.7mm respectively.

Sunshine duration recorded was 8.4hrs/day.

Most farmers were harvesting their Maize crop. Mangoes were at maturity stage.

2.5.3 Lamu

The station received total rainfall amount of 29.7mm. The mean air temperature recorded was 26.8°C. There was no report on total pan evaporation and sunshine parameters.

Maize harvesting is underway in most farms.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

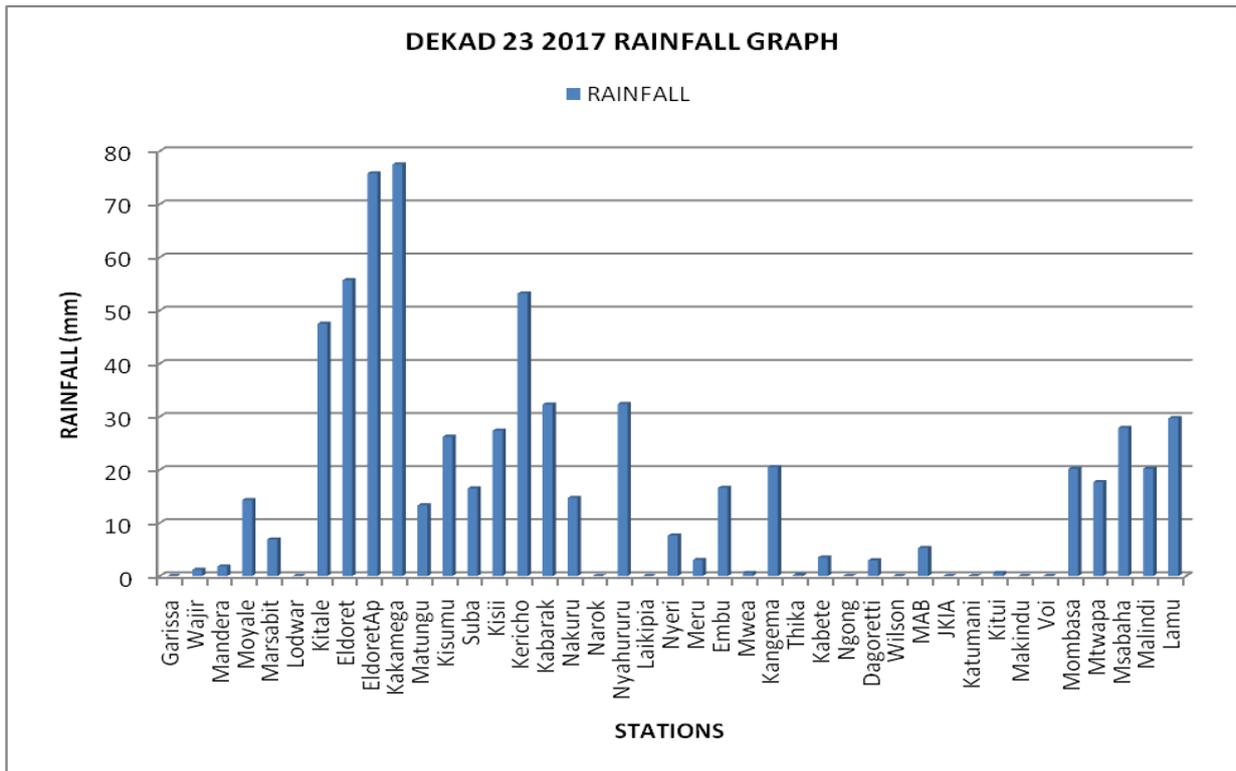


Figure 3.1: Dekadal rainfall totals for dekad 23, 2017

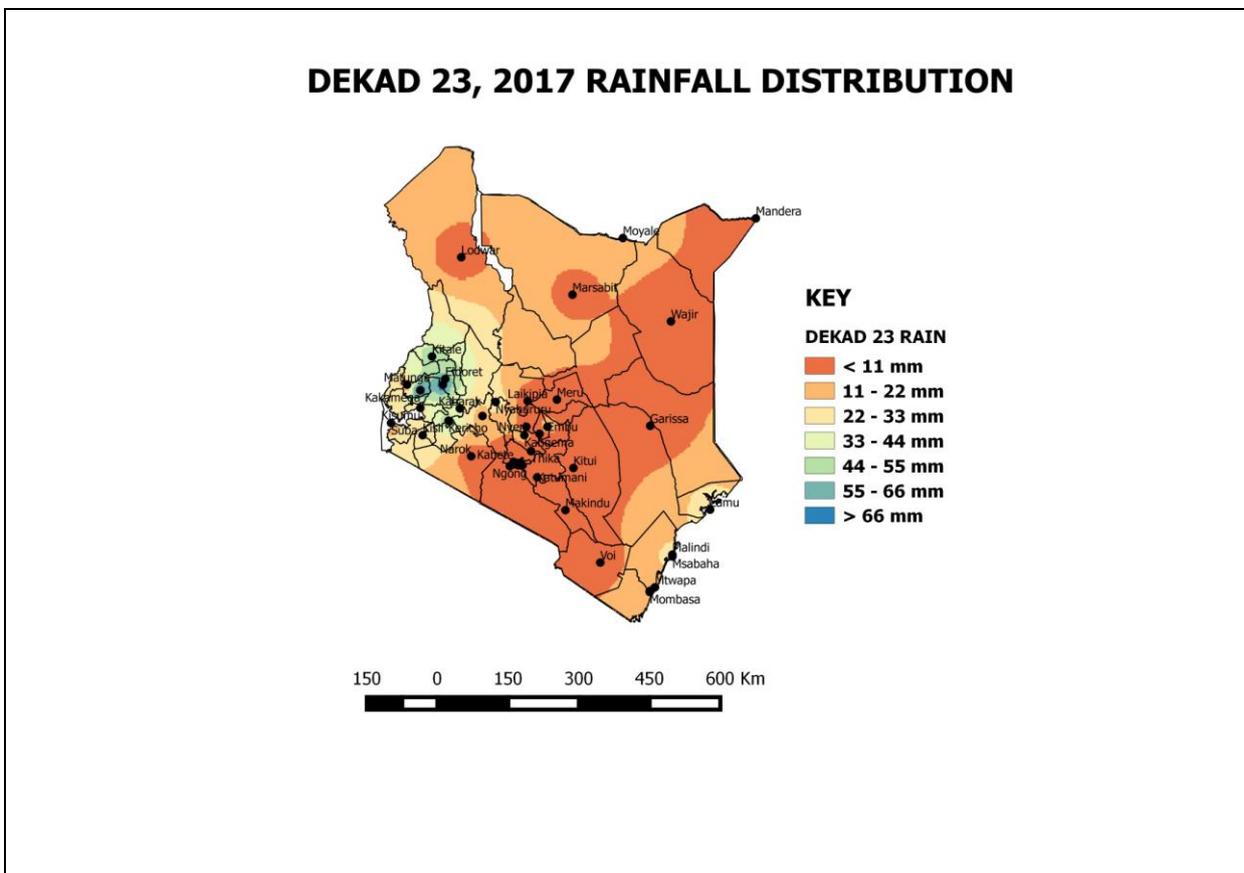


Figure 3.2: Dekadal rainfall distribution for dekad 23, 2017

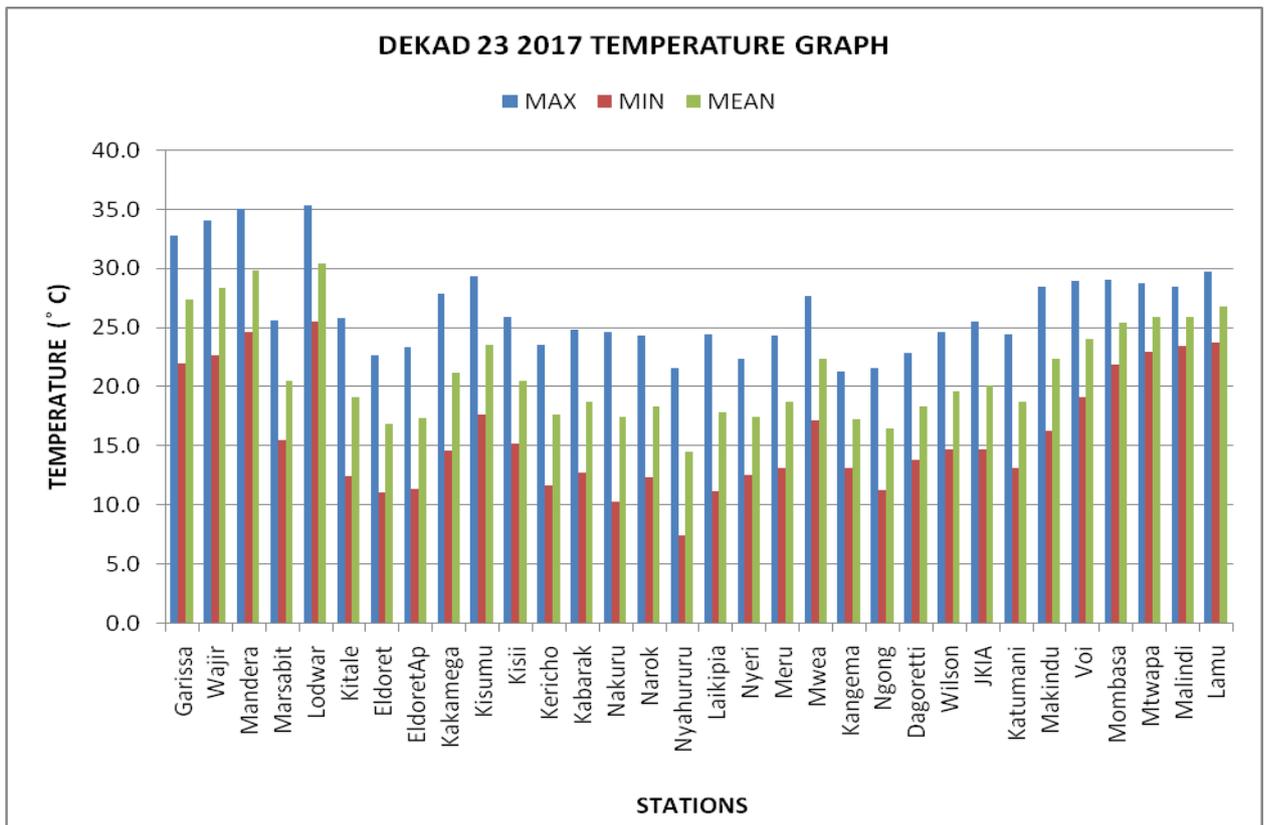


Figure 3.3: Maximum, Minimum and Average temperature for dekad 23, 2017

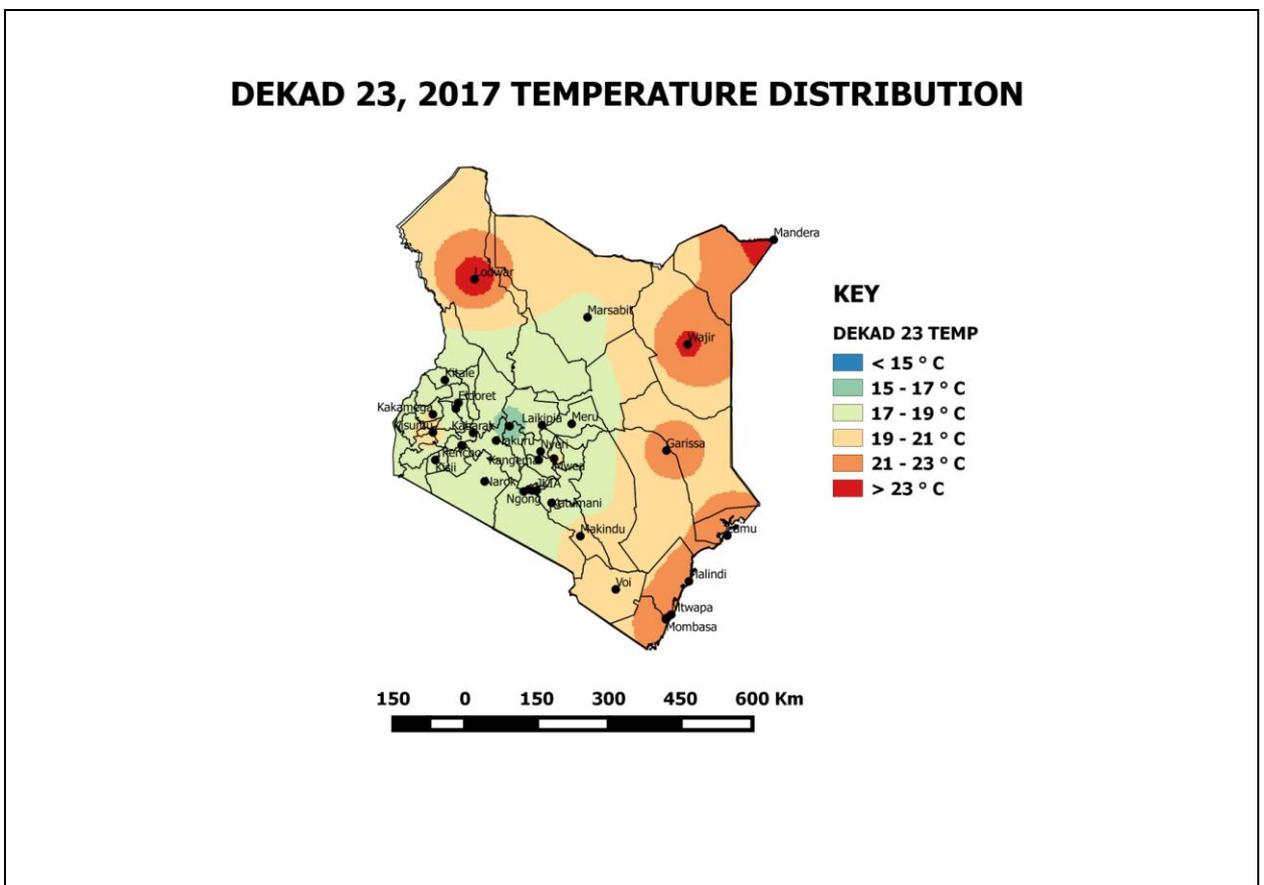


Figure 3.4: Mean temperature distribution for dekad 23, 2017

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21ST to 31ST AUGUST 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), Mornings are expected to experience occasional rains over few places during the forecast period. Afternoons are expected to experience showers and thunderstorms over few places throughout the forecast period.

The showers will be beneficial to the maize in Emergence, flowering and maturity stages in places like Kakamega, Eldoret and Kitale respectively.

The Northwestern counties (Turkana, West Pokot and Samburu), Mornings are expected to experience sunny intervals throughout the forecast period. Afternoons are expected to experience sunny intervals on the 1st day of the forecast period, followed by showers and thunderstorms over few places from 2nd to 5th days then sunny intervals thereafter.

The showers will replenish the vegetation and the pasture 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), are expected to experience cloudy mornings breaking into sunny intervals throughout the forecast period. Afternoons are expected to experience showers over few high ground areas during the forecast period.

The showers will continue benefiting the crops that are in emergence and flowering stages in places like Nyahururu, Nyeri and Embu.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience sunny intervals the entire day throughout the forecast period; however morning rains are expected around Moyale on the 5th day.

The sunny intervals will continue to impact negatively on the vegetation and pasture in these regions.

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui) are expected to experience mainly sunny intervals the entire day throughout the forecast period.

The sunny intervals will continue to have a negative impact on the vegetation and pasture for the animals kept in this region.

In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc) are expected to experience mainly sunny intervals the entire day for much of the forecast period; except on 2nd and 4th day where showers over few places may be realized in the morning.

The showers will benefit the mangoes that are in maturity stage in places like Msabaha and Mtwapa.

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