



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 27, 21ST -30TH SEPTEMBER, 2017

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities drastically decreased both in intensity and spatial distribution countrywide. The highest rainfall of 115.9mm and 89.7mm was received at Kakamega and Matungu stations respectively in Western region; compared to 114.8mm reported at Mtwapa station in Coastal region in the previous dekad. Kitale and Kericho stations in Rift Valley region recorded the second highest rainfall amount of 46.2 and 44.5mm respectively. North Eastern region recorded the highest rainfall amount of 42.1mm at Mandera station. Kisii and Suba stations in Nyanza region reported the highest rainfall amount of 26.8 and 25.6mm respectively. Coastal region recorded the highest rainfall amount of 12.0, 9.7 and 7.4mm at Mtwapa, Msabaha and Mombasa stations respectively. Kangema and Nyahururu stations in Central region recorded the highest rainfall amount of 6.4 and 4.6mm respectively. Eastern region received the highest rainfall amount of 1.6mm at Mwea station; while Nairobi region received the lowest rainfall country-wide, with Wilson station reporting 0.1mm of rainfall.

Maximum temperatures were still on an increasing trend, while Minimum temperatures drastically decreased. Mandera station in North-Eastern region, just like in the previous dekad, reported the highest Maximum temperature of 36.5°C. Nyahururu station in Central region continued to record the lowest Minimum temperature of 7.2°C compared to 9.2°C reported 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 27, 21ST-30TH SEPTEMBER, 2017

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

Total rainfall amount reported was 115.9mm. The Mean air temperature recorded was 21.4°C. There was no report on total Evaporation Pan and Sunshine duration parameters.

Beans were in flowering stage and in good state; while Maize was in emergency stage and in fair state. False army worms are still in many farms.

2.1.2 Kisii

The station received total rainfall amount of 26.8mm. The Mean air temperature and total Pan Evaporation recorded were 21.0°C and 32.8mm respectively. There was no report on sunshine duration.

Maize and Beans were at emergence and flowering stages respectively and both were in good state though army worms have started invading the farms.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded total rainfall amount of 46.2mm. The Mean air temperature and total Pan Evaporation recorded were 19.7°C and 34.7mm respectively. Sunshine duration was 6.0 hrs/day.

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

2.2.2 Eldoret - Kapsoya

The station reported total rainfall amount of 41.0mm. The Mean air temperature and total Pan Evaporation recorded were 17.2°C and 49.0mm respectively. Sunshine duration reported was 7.9 hrs/day.

Maize was at maturity stage and in fair state hence normal yield is expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station reported 1.5mm of rainfall. The Mean air temperature recorded was 18.4 °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 dry conditions. Total Pan Evaporation and Sunshine duration recorded were 52.5mm and 7.2hrs/day respectively. There was no report on Mean air temperature.

Land preparation for short rains season is underway.

2.3.3 Nyahururu

The station recorded 4.6mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 14.6°C and 39.1mm respectively. Sunshine duration was 7.6hrs/day.

Maize was at flowering stage and in fair state hence normal yield is expected; while Potatoes have been harvested stage.

2.3.4 Dagoretti

The station reported dry conditions. The Mean air temperature and total Pan Evaporation reported were 19.1°C and 54.5mm respectively. Sunshine duration was 7.6 hrs/day.

No Phenological report.

2.3.5 Thika

The station reported dry conditions. Total pan evaporation and Sunshine duration recorded were 51.5mm and 1.1hrs/day respectively. There was no report on Mean air temperature.

Land preparation for short rains season is underway.

2.4 EASTERN REGION

2.4.1 Embu

The station reported 1.6mm of rainfall. Total Pan Evaporation and Sunshine duration recorded were 46.1mm and 7.6hrs/day respectively. There was no report on Mean air temperature.

Maize harvesting is ongoing.

2.4.2 Meru

The station received 0.6mm of rainfall. Mean Air Temperature and Total Pan Evaporation recorded were 19.0°C and 58.1mm respectively. Sunshine duration reported was 9.4 hours per day.

Land preparation for next season is still underway.

2.4.3 Katumani (Machakos)

The station recorded dry conditions. The Mean air temperature and total Pan Evaporation recorded were 19.1°C and 63.0mm respectively. There was no report on Sunshine duration.

Land preparation in readiness for short rains season is underway.

2.5 COASTAL REGION

2.5.1 Msabaha

Total amount of rainfall received was 9.7mm. Total Pan Evaporation recorded was 45.7mm. Sunshine duration was 9.6hrs/day. There was no report on Mean air temperature

Some farmers have started land preparation for the short rains season.

2.5.2 Mtwapa

The station reported total rainfall amount of 12.0mm. The Mean air temperature and total pan evaporation recorded were 25.8°C and 54.0mm respectively. Sunshine duration was 8.9hrs/day.

Some farmers have started harvesting their Maize crop. Mangoes were at harvesting stage and in fair state.

2.5.3 Lamu

The station received total rainfall amount of 1.0mm. The Mean air temperature recorded was 28.0°C. There was no report on total Pan Evaporation and Sunshine parameters.

Cashew nuts are in flowering stage and in fair state and farmers are preparing their farms for short rains season.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

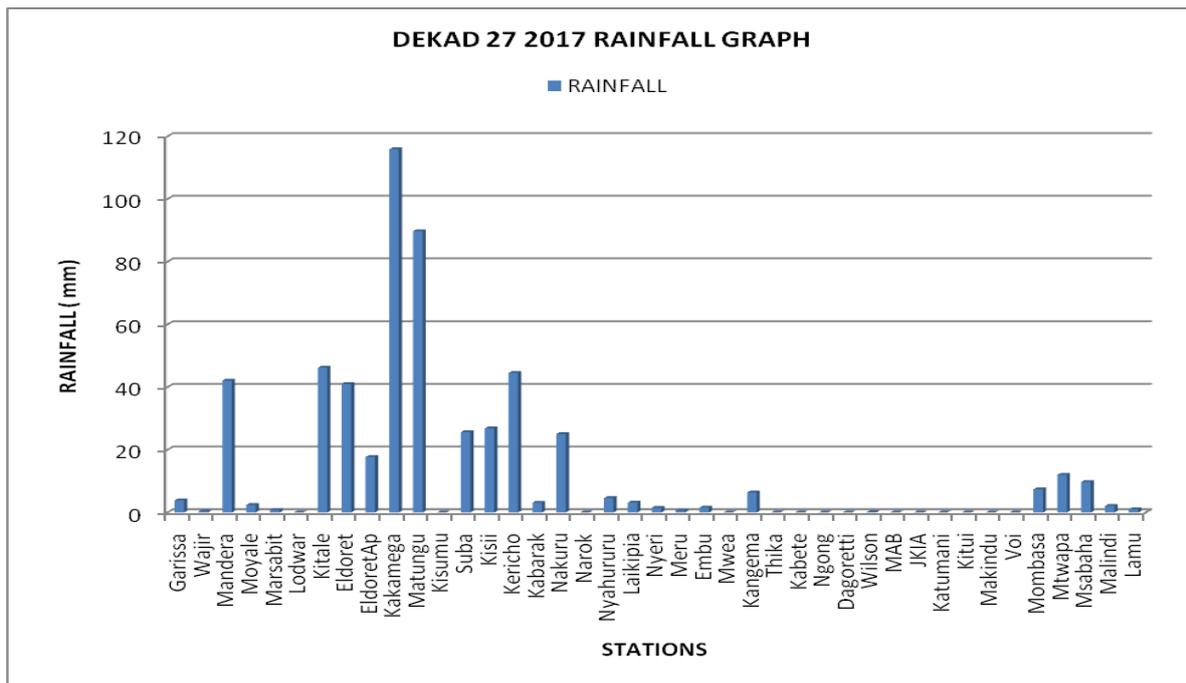


Figure 3.1: Dekadal rainfall totals for dekad 27, 2017

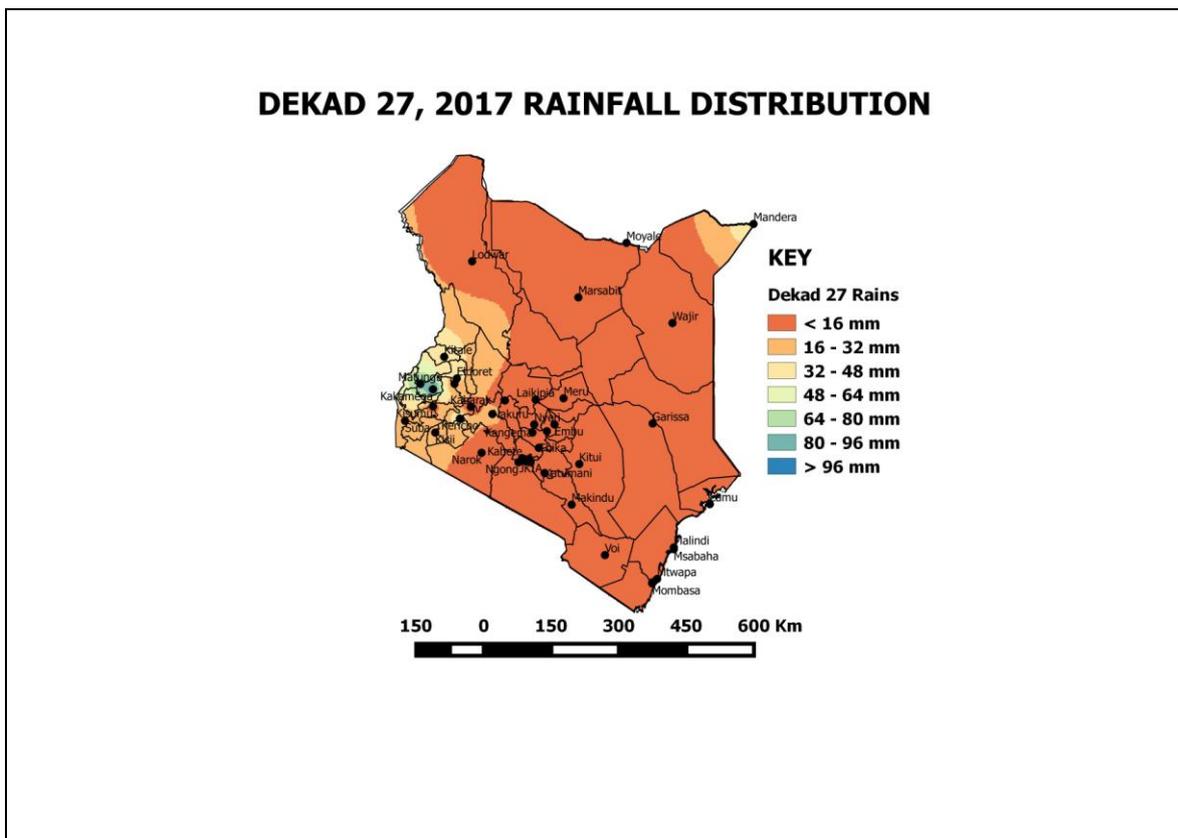


Figure 3.2: Dekadal rainfall distribution for dekad 27, 2017

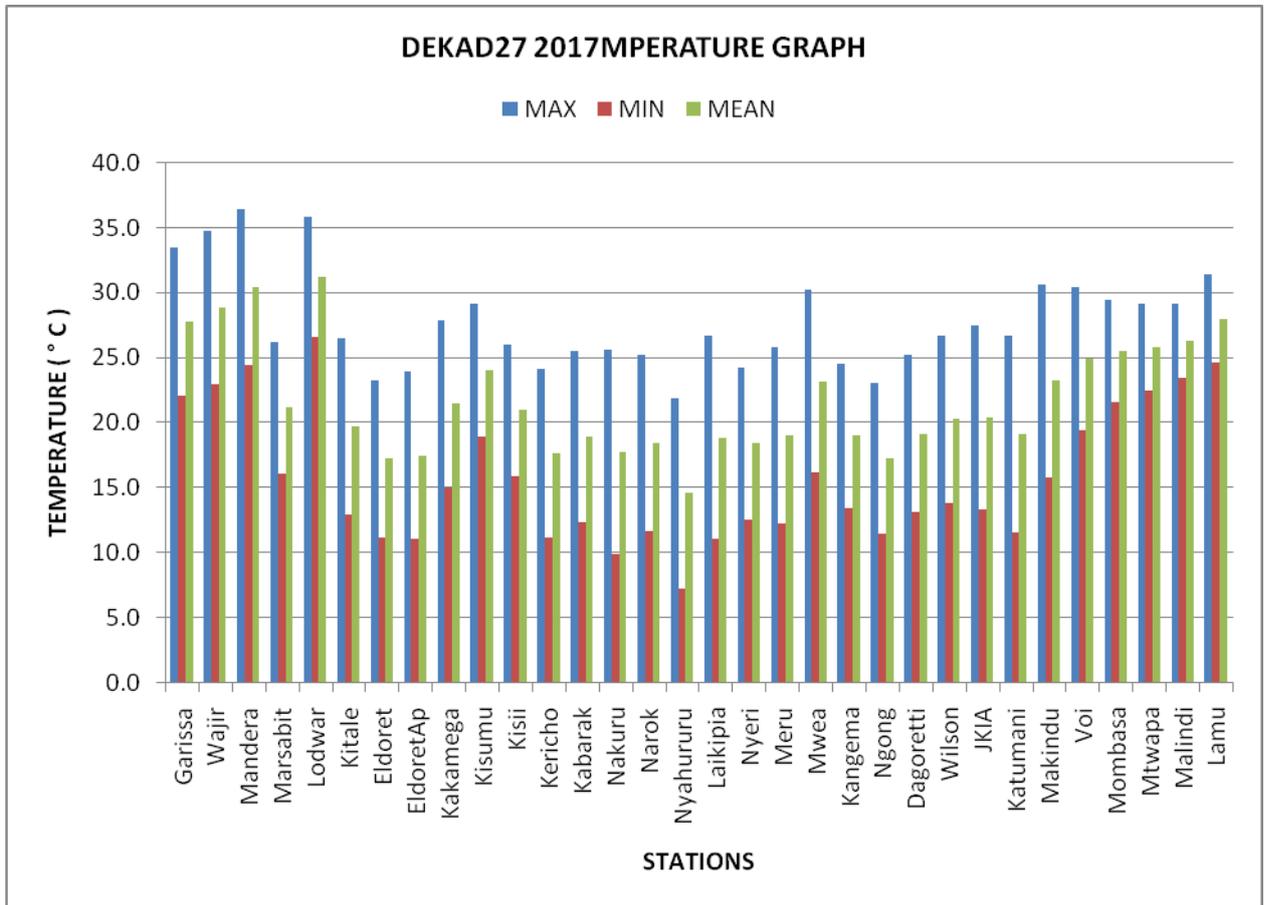


Figure3.3: Maximum, Minimum and Average temperature for dekad 27, 2017

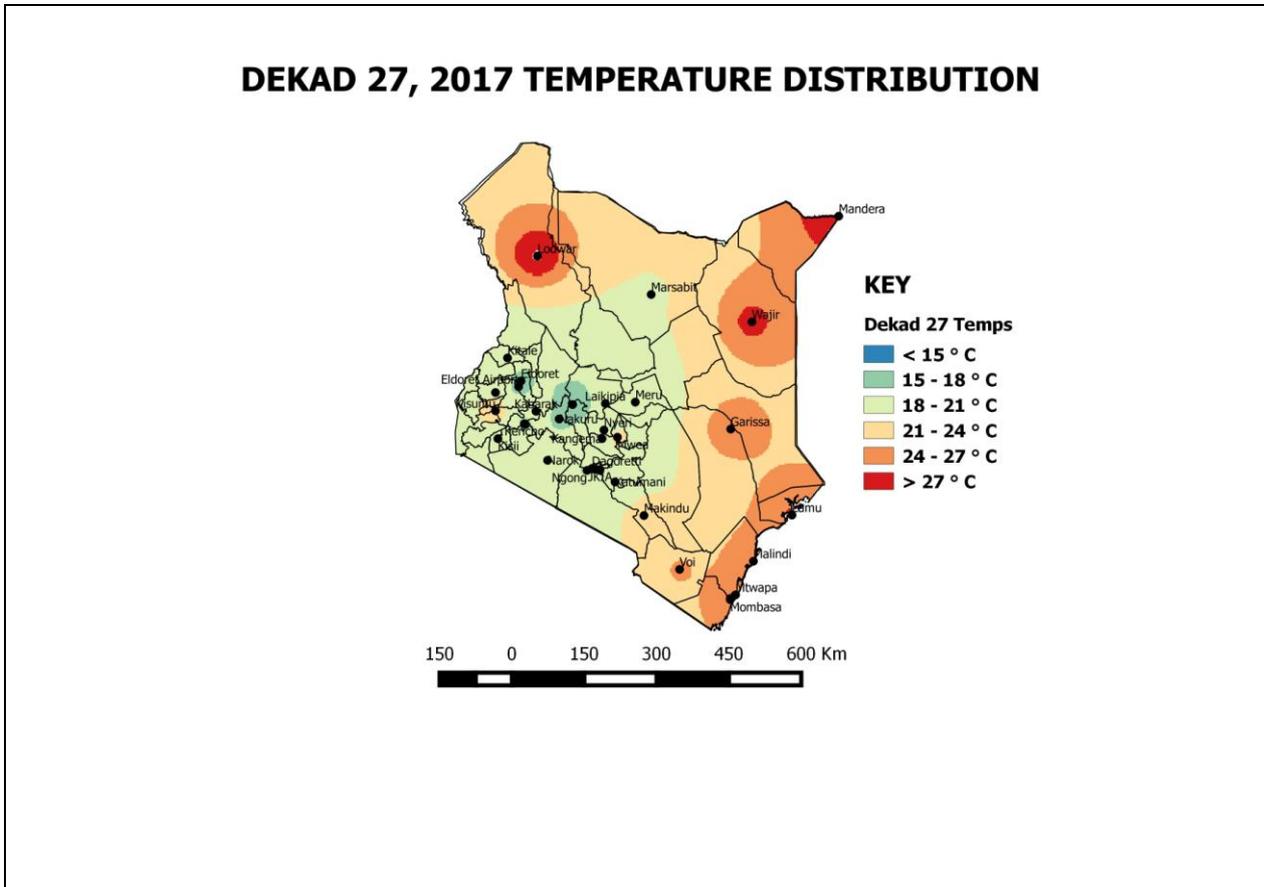


Figure 3.4: Mean temperature distribution for dekad 27, 2017

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1ST to 10TH OCTOBER 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 mainly sunny intervals throughout the forecast period. Afternoons are expected to experience mainly showers and thunderstorms over few places throughout the forecast period.

The showers will be beneficial to the maize and Beans in Emergence, flowering and maturity stages in places like Kisii, Kakamega and Eldoret. The sunny conditions will enhance the drying of Maize in places like Kitale.

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 to 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 mainly cloudy mornings breaking into sunny intervals throughout the forecast period. Afternoons are likely to experience mainly showers over few places throughout the forecast period.

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

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 intervals 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 sunny intervals the entire day throughout the forecast period.

The sunny intervals 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) Mornings are expected to experience showers over few places on the 3rd, 4th, 7th and 8th days of the forecast period while the rest of the mornings will experience sunny intervals. Afternoons are expected to experience sunny intervals throughout the forecast period.

The showers will benefit the cashew nuts that are in flowering stage in Lamu.

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;
Website: www.meteo.go.ke

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