



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

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

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased both in intensity and spatial distribution. Kabarak station in Rift Valley region received the highest rainfall amount of 116.9mm compared to 75.9mm reported at Kakamega station in Western region in the previous dekad. Kisumu station in Nyanza region recorded the highest rainfall amount of 106.3mm. Central region received the highest rainfall amount of 68.8mm at Nyahururu station. Matungu station in Western region reported the highest rainfall amount of 62.7mm. North Eastern region recorded the highest rainfall amount of 38.3mm at Lodwar station. JKIA station in Nairobi region reported the highest rainfall amount of 31.4mm. Coastal region received the highest rainfall amount of 5.5mm at Lamu station. Kitui station in the Eastern region recorded the highest rainfall amount of 1.0mm.

Both Maximum temperatures and minimum temperatures increased. Lodwar and Mandera stations in the North Eastern region recorded the highest maximum temperatures of 33.2°C. Nyahururu station in Central region continued to record the lowest minimum temperatures of 8.3°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 20, 11TH– 21ST JULY, 2017

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

Total rainfall amount recorded was 58.5mm. The mean air temperature reported was 21.4°C, Sunshine duration and Total pan evaporation recorded were 8.0 hrs/day and 43.4mm respectively.

Maize was at harvesting stage and in good condition; hence normal yield is expected.

2.1.2 Kisii

The station recorded total rainfall amount of 13.6mm. The mean air temperature and total Pan Evaporation reported were 20.9°C and 28.6mm respectively. Sunshine duration reported was 5.7hrs/day.

Most farmers in the whole county are harvesting their maize while some have started preparing their farms in readiness for the second season.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded total rainfall amount of 65.4mm. The mean air temperature was 19.1°C. Sunshine duration was 5.8hrs/day while Total pan evaporation recorded was 33.4mm.

Maize and beans were at flowering and harvesting stages respectively. Both crops were in good conditions hence normal yield is expected.

2.2.2 Eldoret - Kapsoya

The station reported total rainfall amount of 48.3mm. The mean air temperature and total Pan Evaporation recorded were 17.1°C and 42.3mm respectively. Sunshine duration was 6.9Hrs/day.

There was no phenological report.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station reported 9.3mm of rainfall. The mean air temperature recorded was 17.5°C. There was no report on total Pan Evaporation and sunshine duration.

Maize and beans were at flowering and maturity stages respectively. The crops are in poor state due to insufficient rain, insects and stalk borer. Hence below normal yields is expected.

2.3.2 Kabete

The station reported 2.3mm of rainfall. Total Pan Evaporation and Sunshine duration recorded were 31.0mm and 7.4hrs/day respectively. There was no report on mean air temperature.

Maize and beans were still at flowering stage and in fair condition; hence normal yield is expected.

2.3.3 Nyahururu

The station recorded 68.8mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 15.0°C and 37.8mm respectively. Sunshine duration recorded was 7.6 hours per day.

Maize and potatoes are still at emergence stage and in fair condition.

2.3.4 Dagoretti

The station reported 10.31mm of rainfall. The mean air temperature and total pan evaporation reported were 18.2°C and 37.8mm respectively. Sunshine duration was 7.1 hrs/day.

No Phenological report.

2.3.5 Thika

The station reported 7.0mm of rainfall. Total pan evaporation and Sunshine duration recorded were 35.5mm and 5.2hrs/day respectively. There was no report on mean air temperature.

Maize and beans were at flowering and harvesting stages and in poor and fair states respectively; hence below normal yield expected. Potatoes are at harvesting stage and in fair state.

2.4 EASTERN REGION

2.4.1 Embu

The station reported dry conditions. Total Pan Evaporation and Sunshine duration recorded were 27.0mm and 3.4hrs/day respectively. There was no report on mean air temperature.

Maize is still at flowering stage and in fair condition hence normal yield is expected. Beans have been harvested.

2.4.2 Meru

The station recorded 0.03mm of rainfall. Mean Air Temperature and total Pan Evaporation recorded were 18.0°C and 35mm respectively. Sunshine duration reported was 7.1 hours per day.

Maize is still at flowering stage and in poor condition due to insufficient rain. Beans harvesting has been completed.

2.4.3 Katumani (Machakos)

The station continued to report dry conditions. The mean air temperature and total Pan Evaporation recorded were 17.8°C and 39.0mm respectively. The mean sunshine duration recorded was 7.6hours per day.

Maize and beans were at maturity and harvesting stages respectively. Both crops were in good condition hence normal yield is expected.

2.5 COASTAL REGION

2.5.1 Msabaha

Total amount of rainfall received was 3.6mm. Total Pan Evaporation and Sunshine duration recorded were 41.6mm and 8.5hrs/day respectively. There was no report on mean air temperature.

Maize is still at flowering stage and in fair state; hence normal yield is expected.

2.5.2 Mtwapa

The station still reported total rainfall amount of 0.7mm. Total pan evaporation and Sunshine duration recorded were 46.7mm and 8.1hrs/day respectively. The mean air temperature was 26.0°C.

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

2.5.3 Lamu

The station recorded total rainfall amount of 5.5mm. The mean air temperature was 27.4°C; there was no report on Total pan evaporation and sunshine parameters.

Maize is still at flowering stage and in fair state, hence normal yield is expected.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

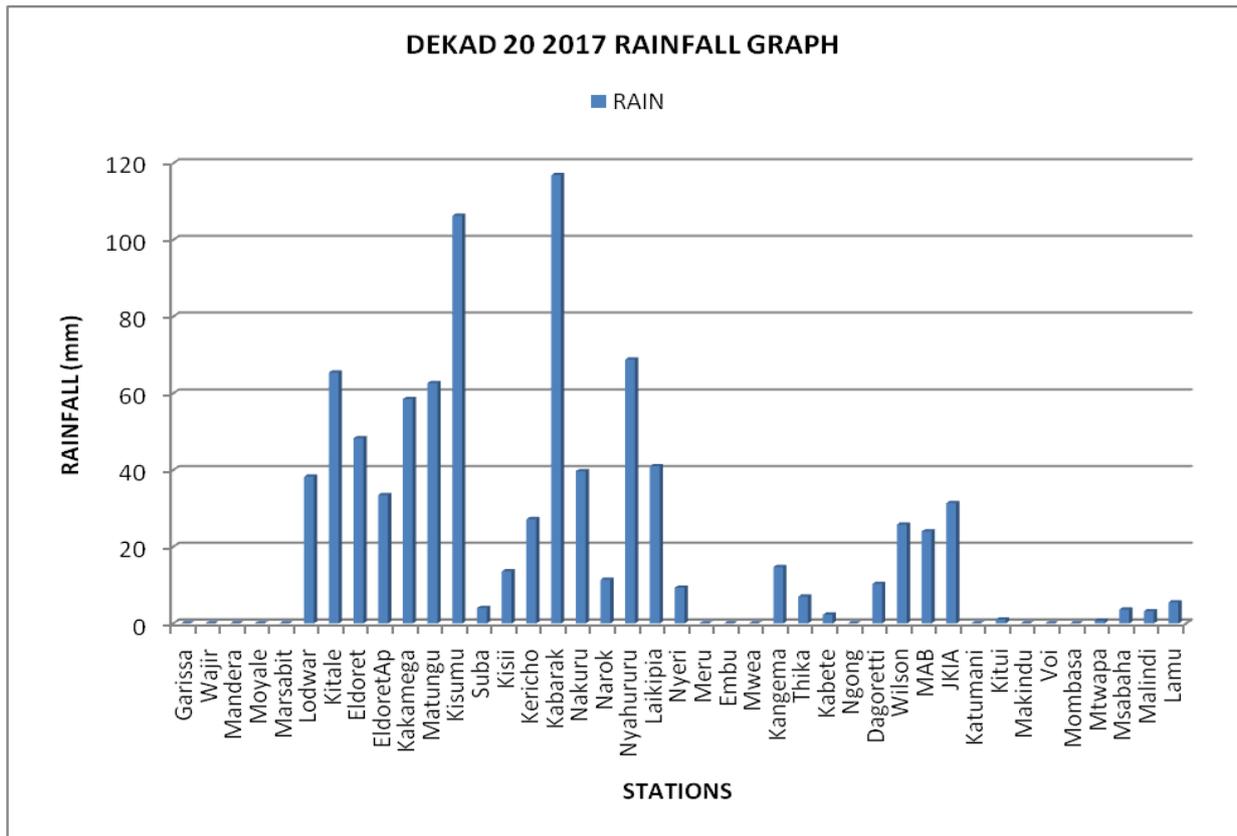


Figure 3.1: Dekadal rainfall totals for dekad 20, 2017

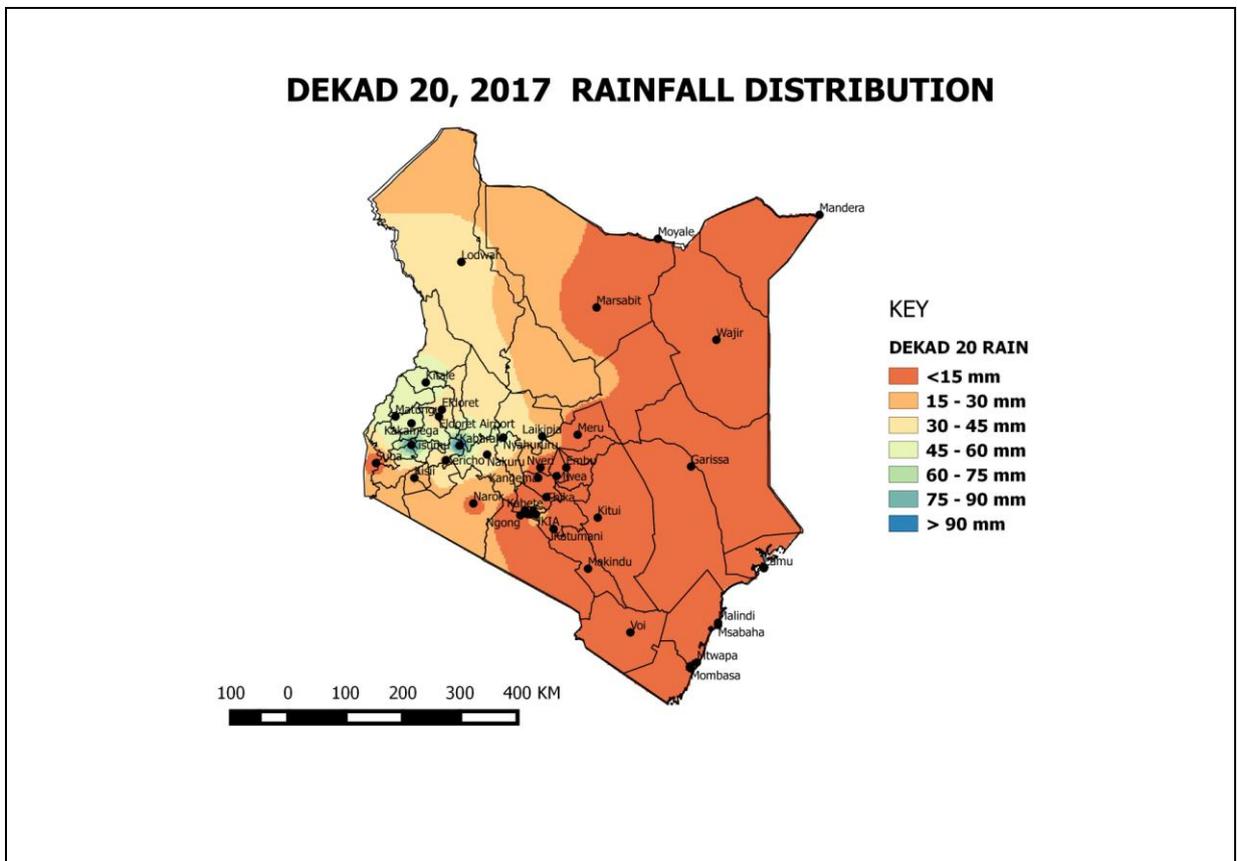


Figure 3.2: Dekadal rainfall distribution for dekad 20, 2017

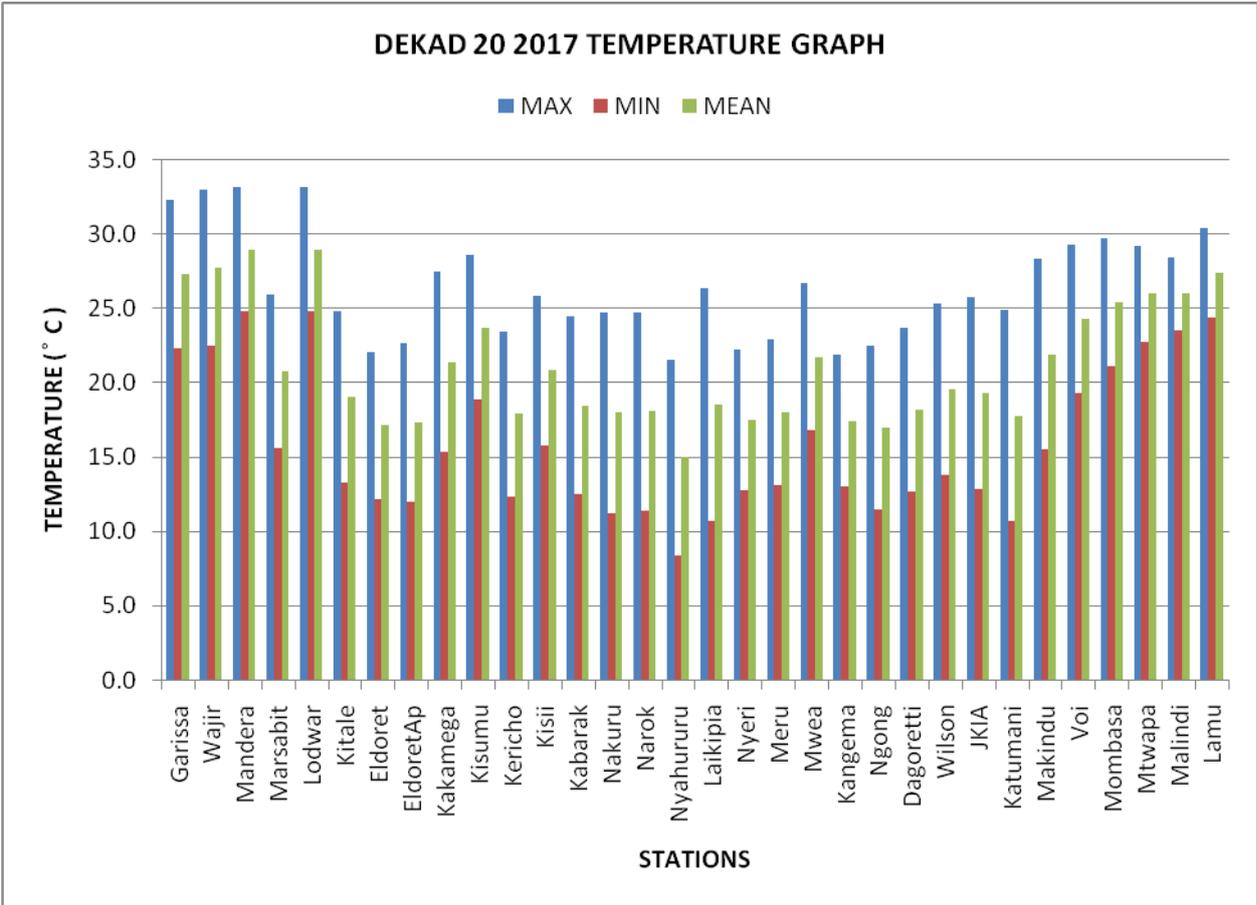


Figure 3.3: Maximum, Minimum and Average temperature for dekad 20, 2017

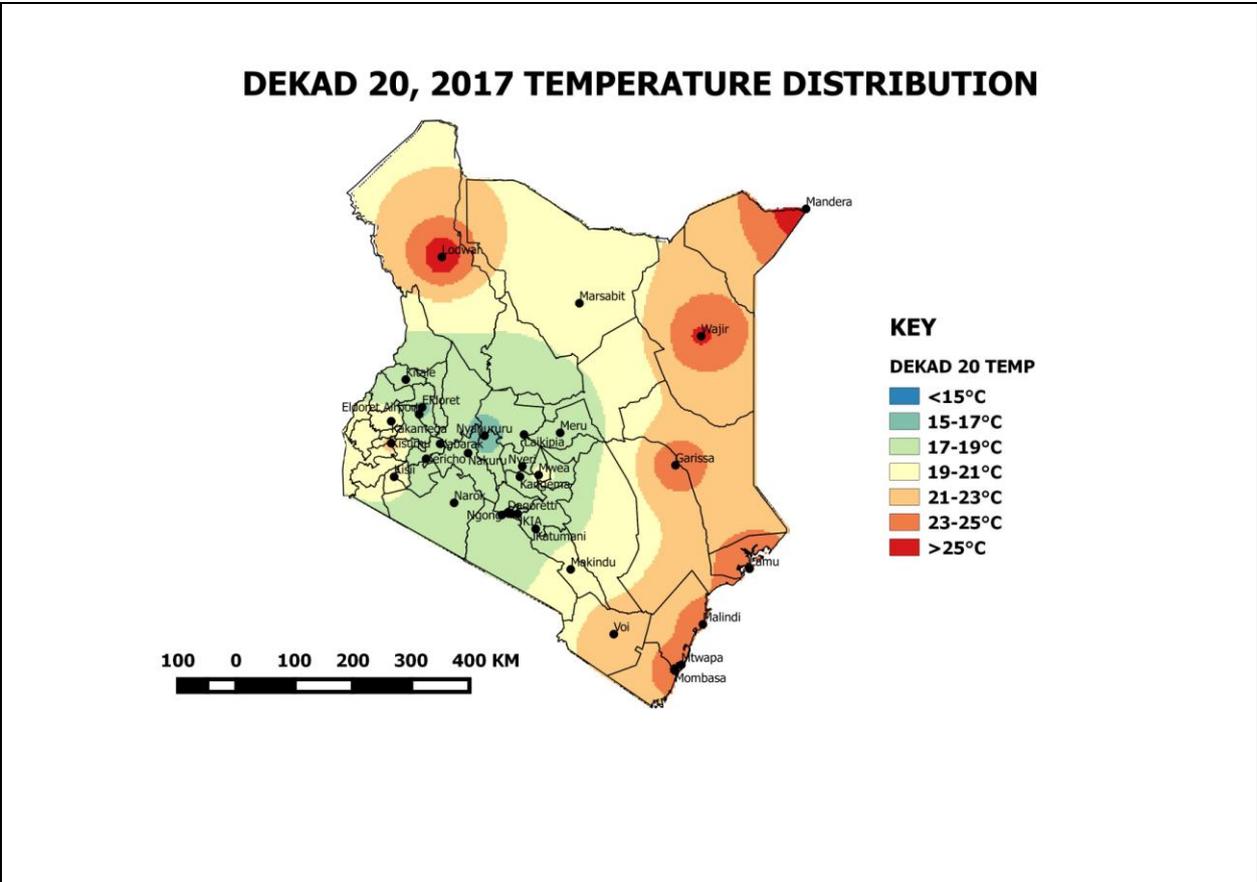


Figure 3.4: Mean temperature distribution for dekad 20, 2017

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21ST to 31ST JULY 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 rains over few places and sunny intervals at the beginning of the forecast period. Afternoons are expected to experience showers and thunderstorms over several places throughout the forecast period.

The showers will continue to benefit the maize in flowering stage in places like Kitale.

The Northwestern counties (Turkana, West Pokot and Samburu), are expected to experience morning rains and afternoon showers and thunderstorms over few places throughout the forecast period.

The showers will have a positive impact on 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 with occasional rains giving way to sunny intervals. Afternoons are expected to experience showers over few places throughout the forecast period.

The showers will continue benefiting the crops that are in emergence, flowering and maturity stages in places like Nyahururu Meru, Nyeri, Embu 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 intervals will have a negative effect 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, however occasional showers over few places are expected during the forecast period.

The showers will be of great benefit to 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 throughout the forecast period, however on the ninth and tenth day of the forecast period showers over several places are expected the entire day.

The showers will benefit the maize at flowering stage in places like Lamu, Msabaha and Mtwapa.

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

©2017 Kenya Meteorological Department