



KENYA METEOROLOGICAL SERVICE DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 22, 01-10 AUGUST, 2015

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities decreased in intensity but increased in spatial distribution during this dekad. Kakamega station in Western region continued to report the highest rainfall of 120.6mm compared to 136.7mm reported in the previous dekad. The second highest rainfall of 77.8mm was received in Kisii station in Nyanza region. Coastal region, received the highest rainfall of 59.7mm at Mtwapa station. Eldoret Air port station in Rift Valley region recorded the highest rainfall amount of 53.1mm. Eastern region received the highest rainfall amount of 24.3mm at Embu station. Nyahururu station in Central region reported the highest rainfall amount of 10.7mm. Nairobi region recorded the highest rainfall amount of 29.0mm at Wilson station, while Marsabit station in North Eastern region reported the highest rainfall amount of 6.7mm.

Both Maximum and Minimum temperatures were on an increasing trend. Lodwar station in North-eastern region continued to report the highest maximum temperature of 35.3°C compared to 34.9°C recorded at same station in the previous dekad. The lowest minimum temperature of 6.9°C was reported at Nyahururu station in Central region.

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 22: 01- 10 AUGUST, 2015

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station reported rainfall amount of 120.6mm during the dekad. The mean air temperature and total pan evaporation recorded were 21.3°C and 40.1mm respectively. There was no report on sunshine parameter.

Maize was at maturity stage and in good state with normal yield expected.

2.1.2 Kisii

The station received total rainfall amount of 77.8mm. The mean air temperature and total Pan Evaporation recorded were 20.4°C and 33.8mm respectively. There was no report on sunshine duration.

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

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station reported total rainfall amount of 28.7mm. The mean air temperature and total Pan Evaporation recorded were 19.1°C and 34.7mm respectively. There was no report on sunshine duration.

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

2.2.2 Eldoret-Kapsoya

The station reported rainfall amount of 13.1mm. The mean air temperature and total Pan Evaporation recorded were 17.0°C and 39.6mm respectively. There was no sunshine duration report.

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

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received total rainfall amount of 4.3mm. The average air temperature was 16.9°C. There was no report on Pan Evaporation and sunshine parameters.

Maize was at flowering stage and in poor state due to adverse effect by stalk borer and insufficient rainfall, hence below normal yield is expected.

2.3.2 Kabete

The station reported rainfall amount of 7.8mm. The total Pan Evaporation recorded was 18.3mm. There was no report on Mean air temperature and sunshine duration.

Both maize and beans were at mature stage and in fair state with normal yield expected.

2.3.3 Thika

The station reported rainfall amount of 2.3mm. The mean air temperature and total Pan Evaporation recorded were 18.2°C and 22.8mm respectively. There was no report on sunshine duration.

Harvesting of maize is underway.

2.3.4 Nyahururu

The station reported rainfall amount of 10.7mm. The mean air temperature and total Pan Evaporation recorded were 14.1°C and 35.2mm respectively. There was no report on sunshine hours.

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

2.3.5. Dagoretti

The station reported rainfall amount of 3.3mm. The Mean air Temperature and total Pan Evaporation recorded were 16.9°C and 20.8mm respectively. There was no report on sunshine hours.

Maize was at 100% flowering stage and in good state.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station received total rainfall amount of 24.3mm. There was no report on Mean air Temperature, Pan Evaporation and sunshine hours.

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

2.4.2 Meru

The station received rainfall amount of 10.6mm. The mean air temperature and total Pan Evaporation recorded were 17.4°C and 30.6mm respectively. There was no report on sunshine duration.

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

2.4.3 Katumani (Machakos)

The station reported rainfall amount of 1.2mm. The Mean air Temperature and total Pan Evaporation recorded were 17.5°C and 28.2mm respectively. There was no report on Sunshine duration.

Harvesting of maize is complete.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 21.8mm. The average air temperature and total Pan Evaporation recorded were 21.8°C 47.3mm respectively. There was no report on sunshine duration.

Maize was at harvesting stage and in fair state hence normal yield is expected. Mangoes were at 100% ripeness stage and in good state.

2.5.2 Mtwapa.

The station received rainfall amount of 59.7mm. The average air temperature was 25.3°C. There was no report on Sunshine duration and Pan Evaporation.

Maize was at maturity stage and in good state hence normal yield is expected though maize had been adversely affected by birds, animals and stalk borer.

3.0 ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

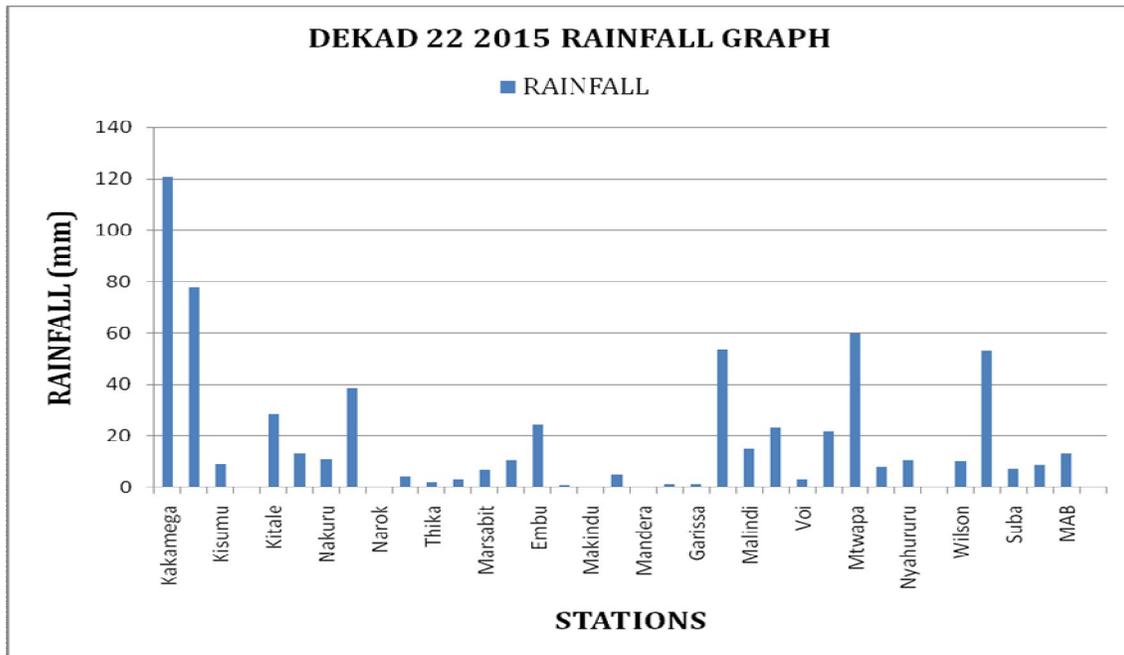


Figure 3.1: Dekadal rainfall totals for 01 -10 AUGUST 2015

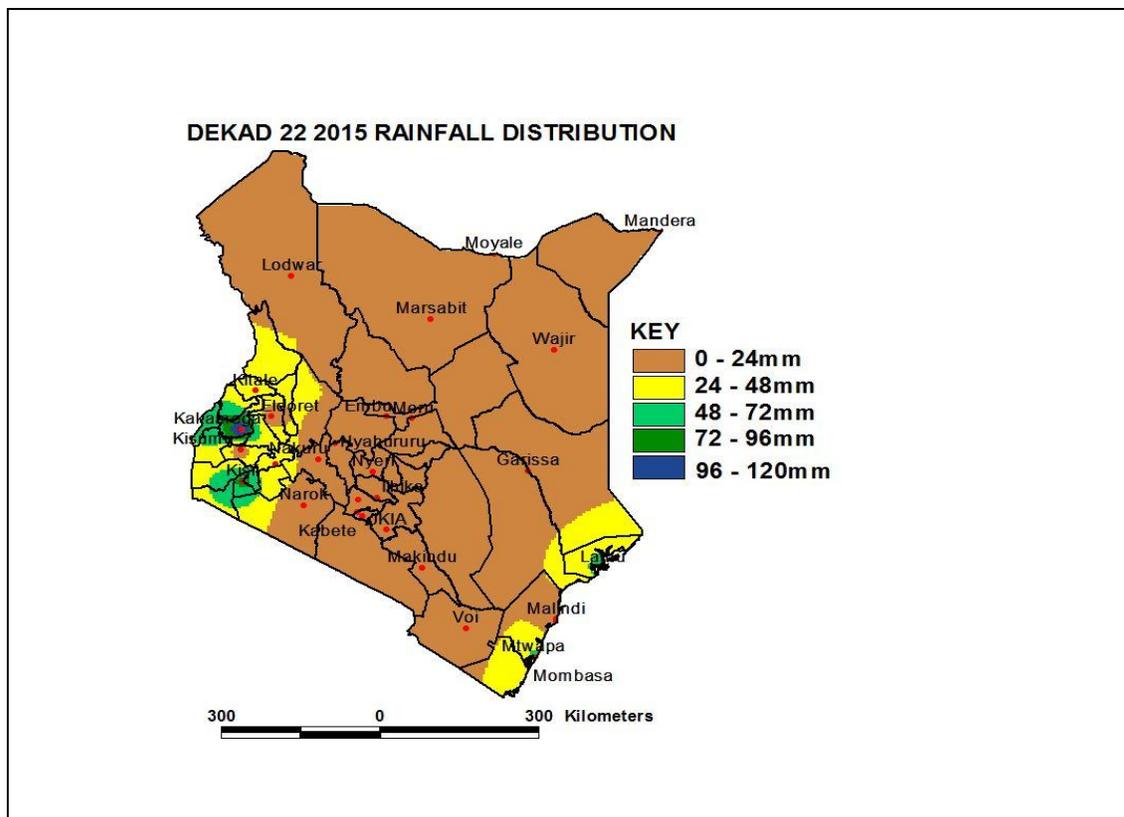


Figure 3.2: Dekadal rainfall distribution for dekad 22, 2015

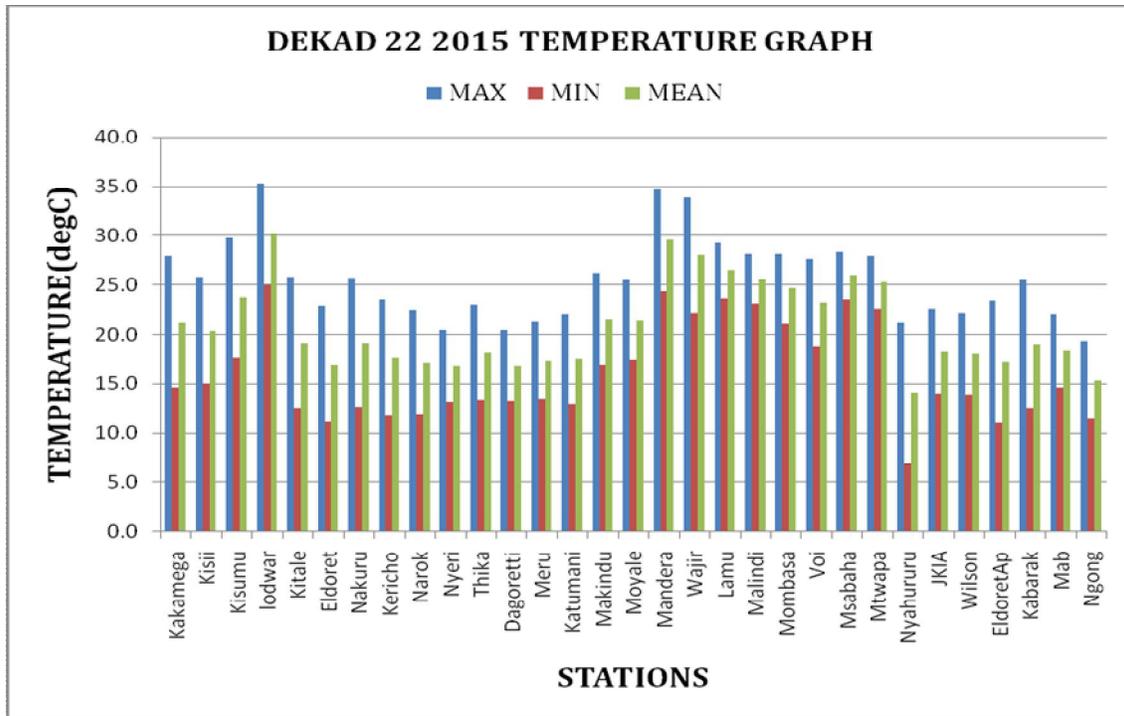


Figure 3.3: Maximum, Minimum and Average temperature for dekad 22, 2015

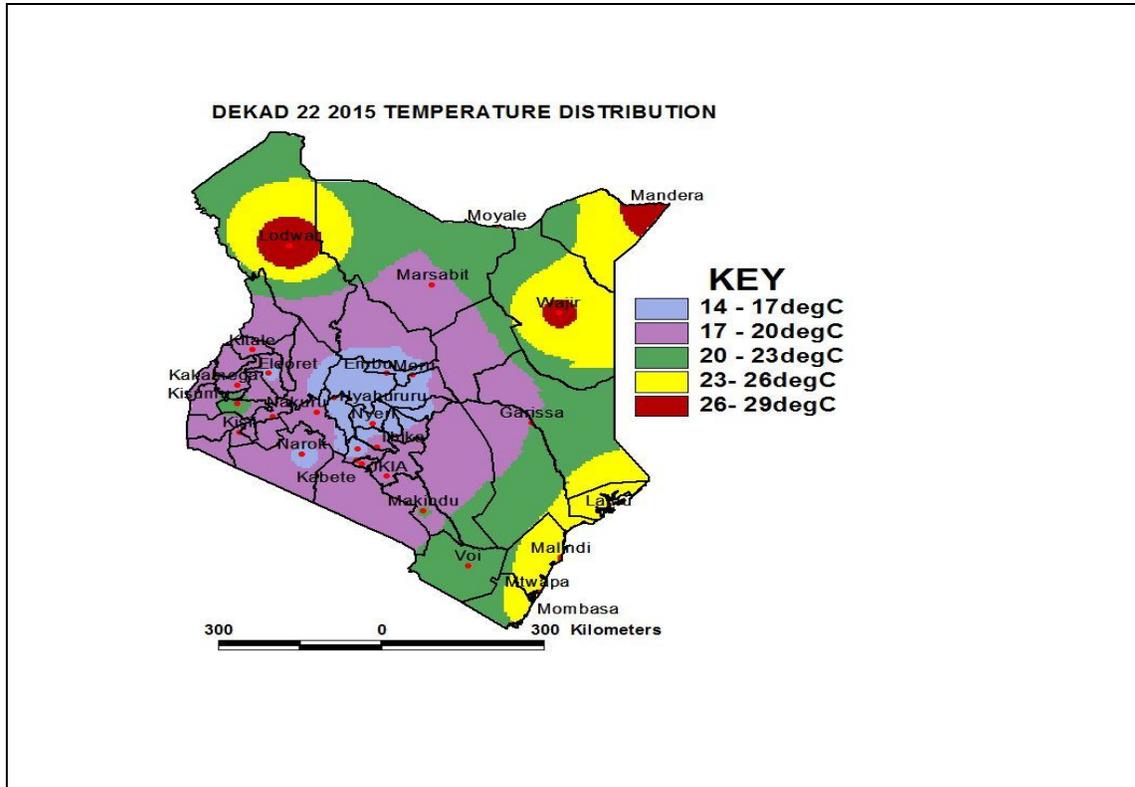


Figure 3.4: Mean temperature distribution for dekad 22, 2015

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11-20 AUGUST, 2015.

- ❖ **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**, morning are expected to experience mainly sunny intervals throughout the forecast period. Afternoons are expected to experience showers and thunderstorms over few places throughout the forecast period.

The morning sunny intervals will enhance the drying of maize, which are in harvesting stage in places like Kisumu. The afternoon showers will be of great benefit to the crops that are still in flowering and maturity stages in places like Kitale, Kisii, Eldoret and Kakamega. They will also replenish the soil with moisture for the growth of pasture and vegetation that supports livestock keeping in this region.

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

The sunny intervals will be of disadvantage to the growth of pasture and vegetation for livestock kept in these regions.

- ❖ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga)**, morning are expected to experience sunny intervals on the first five days of the forecast period, followed by cool and cloudy conditions with light rains over few places thereafter. Afternoons will experience sunny intervals throughout the forecast period.

The morning rains will be of great benefit to the development of maize crops that are in the flowering stage in places like Nyahururu, Nyeri. The sunny conditions are beneficial to drying of maize in places like Embu.

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

The sunny intervals will be of disadvantage to the growth of pasture and vegetation that supports the livestock kept in these regions.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)**, mornings are expected to experience sunny intervals on the first five days of the forecast period, followed by cool and cloudy conditions giving way to sunny intervals thereafter. Afternoons are expected to experience sunny intervals throughout the forecast period.

The sunny intervals will enhance the drying of maize that is at maturity stage in places like Katumani.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** Mornings are expected to experience showers over few places throughout the forecast period. Afternoons are expected to experience sunny intervals throughout the forecast period.

The morning showers will continue benefiting the development of Maize that is at flowering and maturity stages in places like Lamu and Msabaha respectively.

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