



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL**

BULLETIN

**WEATHER AND CROP REVIEW FOR DEKAD 22, 2014
01-10AUGUST, 2014**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was an increase in intensity while the spatial distribution of rainfall was almost the same as in the previous dekad. Rift Valley region received the highest amount of rainfall countrywide with Eldoret Airport station recording 139.7mm, compared to the previous dekad where the same station, Eldoret Airport station, received the highest rainfall of 118.9mm. Kisii station in Nyanza region received the second highest rainfall of 120.1mm. In Western region, Kakamega station recorded the highest rainfall of 104.0mm. Nyahururu station recorded the highest amount of rainfall of 65.5mm in Central region. Mombasa station received the highest rainfall amount of 12.0mm in the Coastal region. In Eastern region the highest rainfall of 7.1mm was recorded at Embu station. Wilson station in Nairobi region reported the highest amount of rainfall of 1.5mm while in North Eastern region the highest rainfall amount of 0.01mm was recorded at Wajir station.

Maximum temperatures in most stations had an increasing trend though Lodwar station in North Eastern region recorded the highest maximum temperature of 34.1°C compared to 34.5°C recorded at the same station in the previous dekad. The minimum temperatures decreased in most stations with Nyahururu station in Central region recording the lowest temperature of 7.8°C compared to 8.8°C reported in the 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.

2. CROP AND WEATHER REVIEW FOR DEKAD 22; 01-10 AUGUST 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded rainfall amount of 104.0mm during the dekad. The mean air temperature was 20.4°C. Sunshine duration reported was 6.6 hours. No report on pan evaporation.

Maize was at maturity stage and in a good state. Normal yield is expected.

2.1.2 Kisii

The station recorded rainfall amount of 120.1mm. The mean air temperature and Pan Evaporation were 20.0°C and 3.4mm respectively. There was no record on Sunshine parameter.

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

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 65.8mm. Pan Evaporation recorded was 3.1mm. There was no report on mean air temperature and sunshine duration.

Maize was at flowering stage while beans were at harvesting stage and both are in good state hence normal yield is expected for both crops.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 86.2mm. The average air temperature reported was 16.6°C while pan evaporation was 3.0mm. There was no report on sunshine Parameter.

Maize was at flowering stage and in a poor state having been affected by insufficient rain during the previous dekad, hence below normal yield is expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 3.5mm. The average air temperature was 16.0°C. There was no report on pan evaporation and sunshine parameters.

Maize was at maturity stage and in a fair state though adversely affected by stalk borer. Normal yield is expected.

2.3.2 Kabete

The station recorded rainfall amount of 0.3mm. Evaporation was 3.0mm. No report on Mean air temperature and sunshine parameter.

Maize and beans were at maturity and harvesting stages respectively and both in fair states with normal yield being expected.

2.3.3 Thika

The station received rainfall amount of 1.2mm. The mean air temperature was 18.9°C while evaporation was 2.4mm. There was no report on sunshine duration.

Harvesting of maize is over and land preparation is under way.

2.3.4. Nyahururu

The station received rainfall amount of 58.1mm. The mean air temperature and pan evaporation recorded were 14.5°C and 3.3mm respectively. There was no report on sunshine duration.

Maize was at flowering stage and in fair state while potatoes were at harvesting stage and also in fair state though normal yield is expected for both crops.

2.3.5. Dagoretti

The station reported rainfall amount of 0.04mm. The average air temperature and pan evaporation recorded were 17.4°C and 3.1mm respectively. Sunshine duration reported was 3.3hrs.

No report on phenological observations.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded rainfall amount of 2.4mm. The average air temperature and Pan Evaporation recorded were 17.5°C and 4.1mm respectively. Sunshine record was 5.0hrs.

Harvesting of crops is over and land preparation is under way.

2.4.2 Embu

The station recorded rainfall amount of 7.1mm. Pan Evaporation was 2.0mm. There was no record on the average air temperature and sunshine duration.

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

2.4.3 Katumani (Machakos)

The station received no rainfall. The average air temperature reported was 17.7°C. There was no report on pan evaporation and Sunshine duration.

No phenological report.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 10.5mm. The average air temperature and Pan Evaporation recorded were 25.8°C and 3.7mm respectively. There was no report on sunshine duration.

Maize was at flowering stage and in fair state therefore normal yield is expected. Mangoes were at 100% fruit setting stage and in good state.

2.5.2 Mtwapa

The station received rainfall amount of 10.7mm. The average air temperature and pan evaporation recorded were 25.1°C and 4.1mm respectively. There was no report on Sunshine duration.

Maize was at maturity stage and in a fair state though adversely affected by insects, birds, animals, diseases mainly maize stalk borer and excessive weed

growth. Mangoes were at harvesting stage and in a fair state hence normal yield is expected for both crops.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

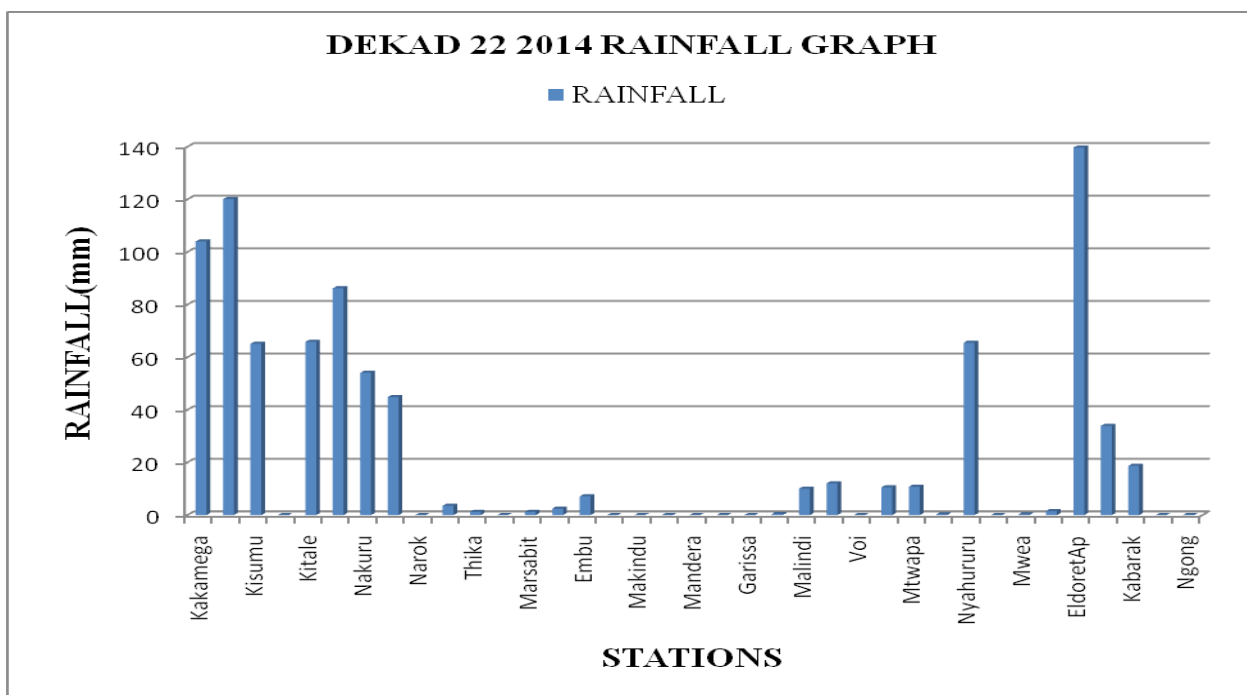


Figure 3.1: Dekadal rainfall totals for 01- 10 AUGUST 2014

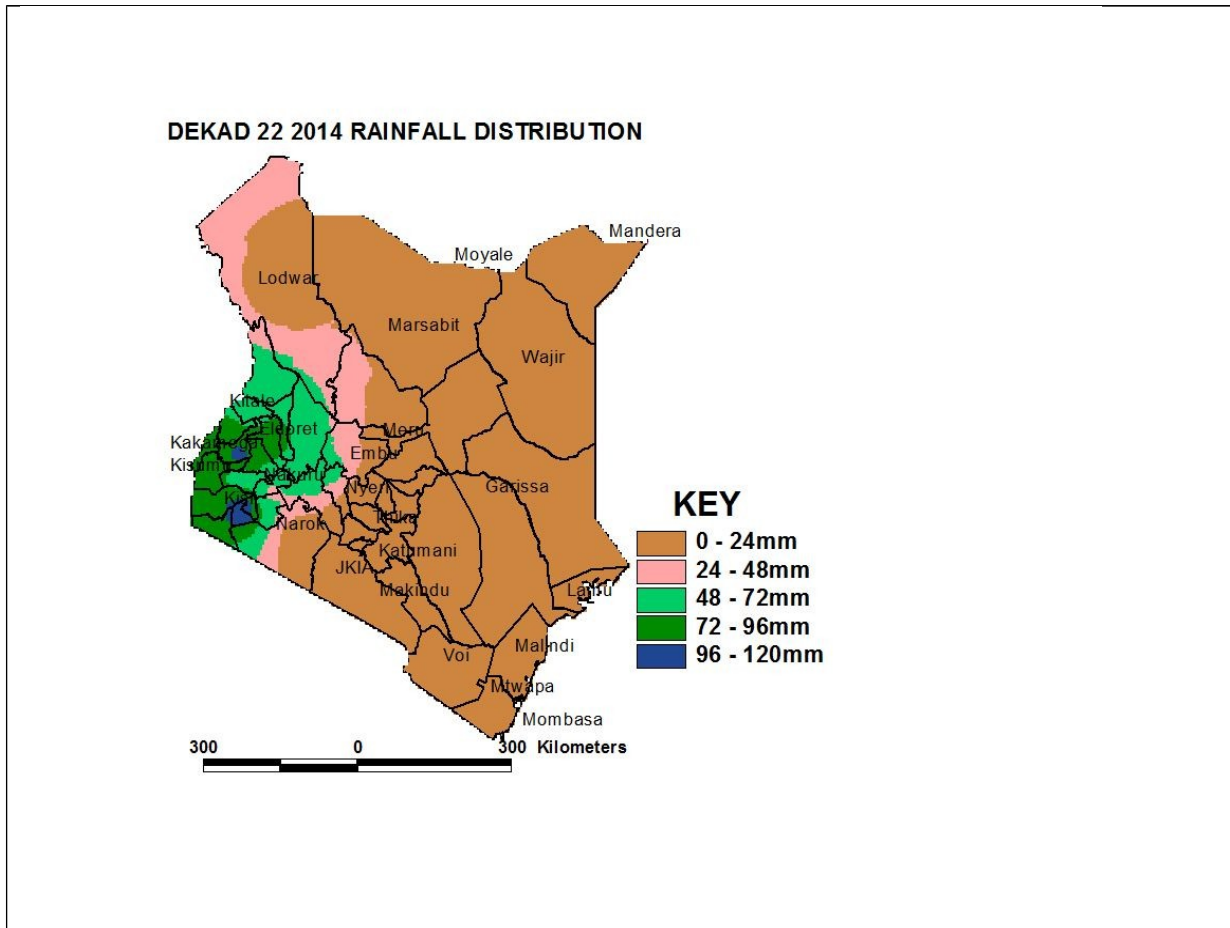


Figure 3.2: Dekadal rainfall distribution for dekad 22, 2014

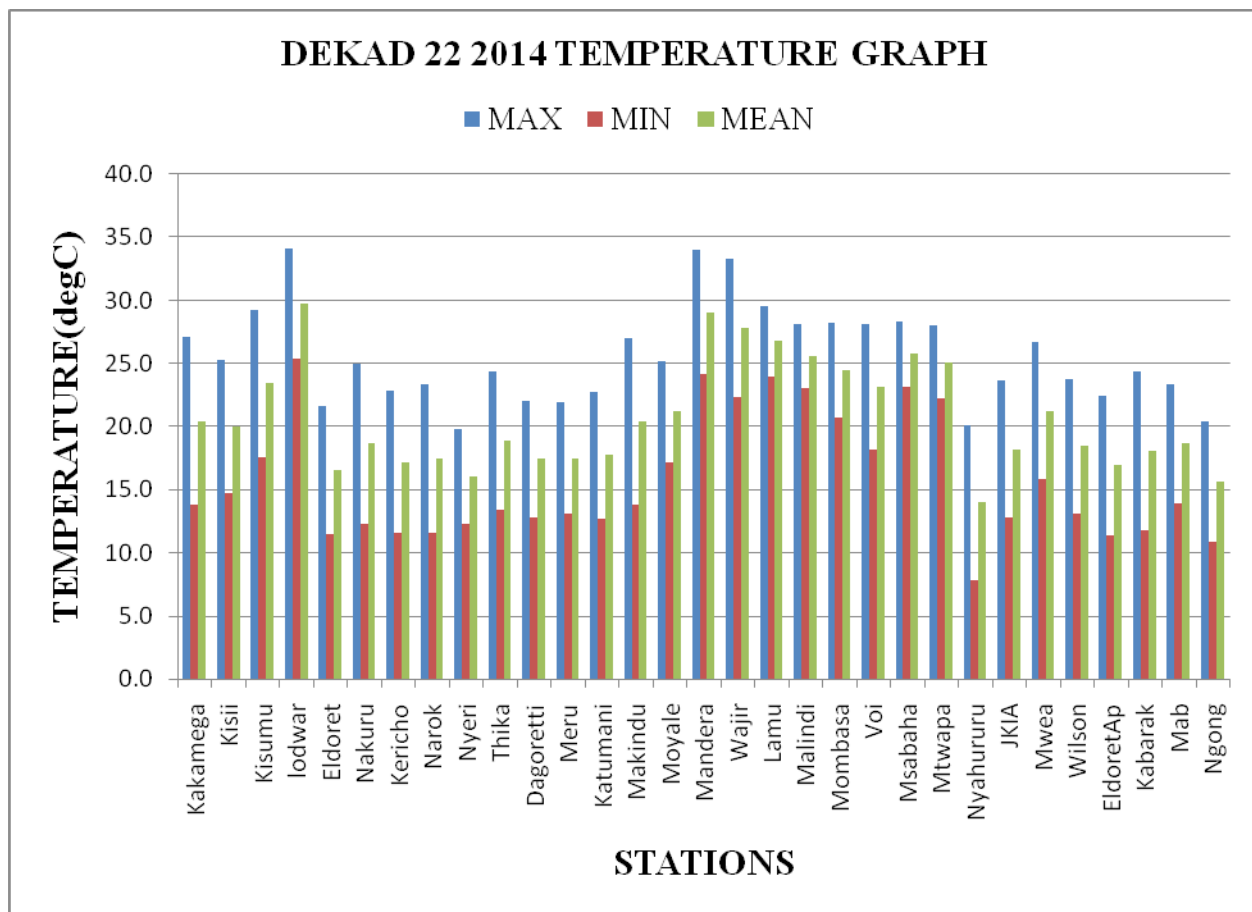


Figure 3.3: Maximum, Minimum and Average temperature for dekad 22, 2014.

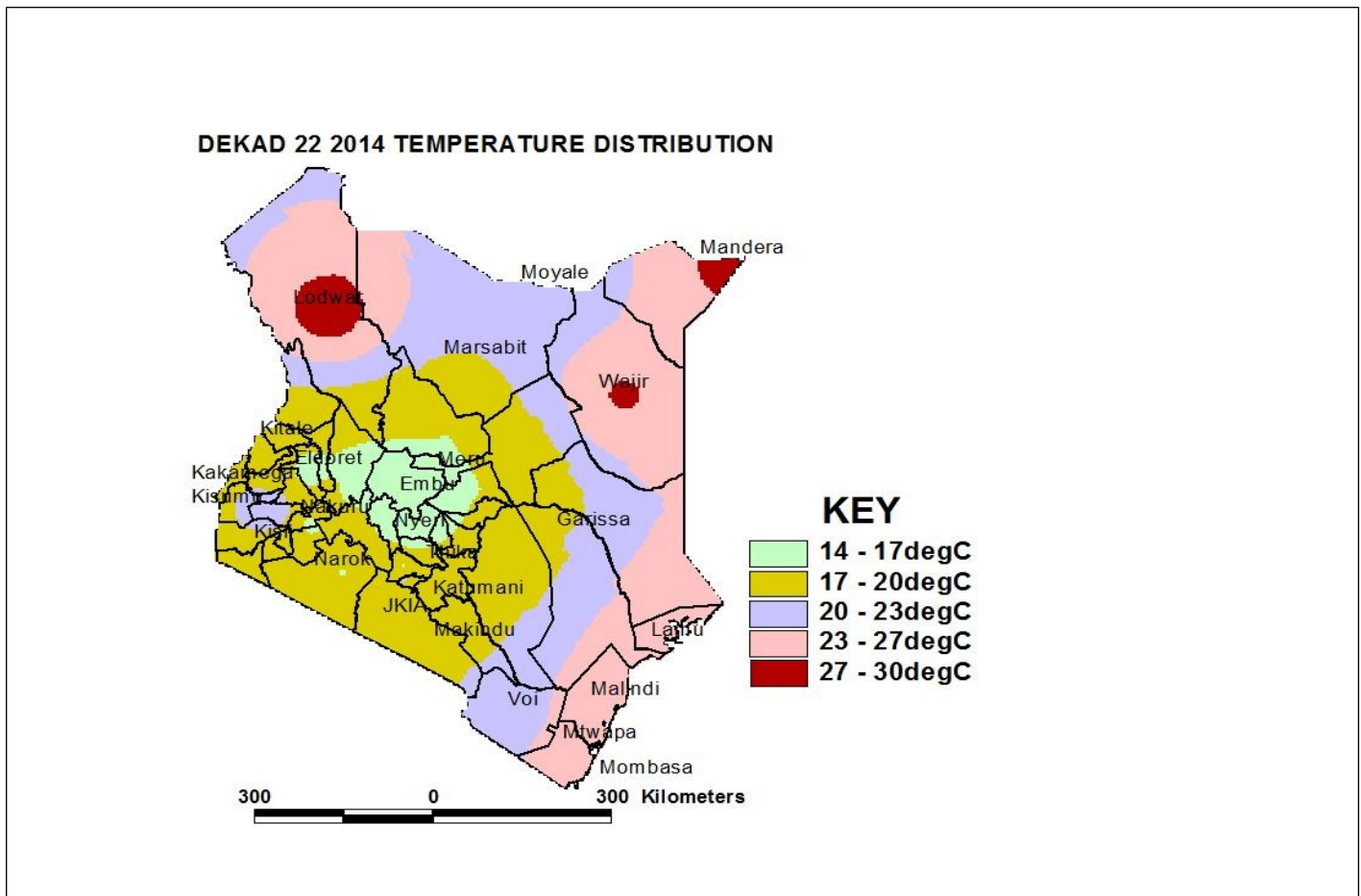


Figure 3.4: Mean temperature distribution for dekad 22, 2014

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;01-10 AUGUST 2014

❖ **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 for the entire forecast period. Afternoon/evening showers and thunderstorms are expected over several places at the beginning of the forecast period, reducing to few places towards the end of the forecast period.

The showers will enhance the growth of the maize crop which is in its flowering stage in the regions.

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

The sunny condition will impact negatively on pasture and vegetation 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 early morning cloudiness with a chance of light rains/drizzle giving way to sunny intervals. Afternoon/evening showers are expected over few high ground areas throughout the forecast period.

The rains and showers will benefit the Maize crop which is in the flowering stage.

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

The expected sunny condition will impact negatively on pasture and vegetation in the region.

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

The sunny conditions will impact negatively on pasture and vegetation in the region.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)**, are expected to experience showers in the morning over few places and mainly sunny intervals in the afternoon for the entire forecast period.

The showers will benefit the development of the Maize crop, which is in the flowering stage.

For feedback or further guidance, Contact:

Director,
Kenya Meteorological Services,
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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