

**FOUR DAY WEATHER REVIEW FOR 2<sup>ND</sup> - 5<sup>TH</sup> SEPT 2010 AND THE FORECAST VALID 7<sup>TH</sup> - 10<sup>TH</sup> SEPT, 2010**

**1. WEATHER HIGHLIGHTS**

**Review for the last four-day period (2<sup>nd</sup> – 5<sup>th</sup> Sept 2010):**

- During the review period (2<sup>nd</sup> – 5<sup>th</sup> Sept 2010), the western sector and parts of the central highlands including Nairobi area continued to record wet weather conditions; and
- Maximum temperatures slightly increased in most places while Minimum temperatures slightly increased in some places and decreased in other areas during the review period.

**Forecast for the next four days (7<sup>th</sup> – 10<sup>th</sup> Sept 2010) indicates:**

- Maintenance of rainfall activities over the western highlands and parts of Central Rift Valley;
- Decline in rainfall activities over the central highlands and Nairobi area;
- Dry conditions elsewhere in the country; and
- Cool and cloudy early mornings with light rains/drizzles will continue in parts of central Rift Valley, Central highlands as well as Nairobi area during the forecast period.

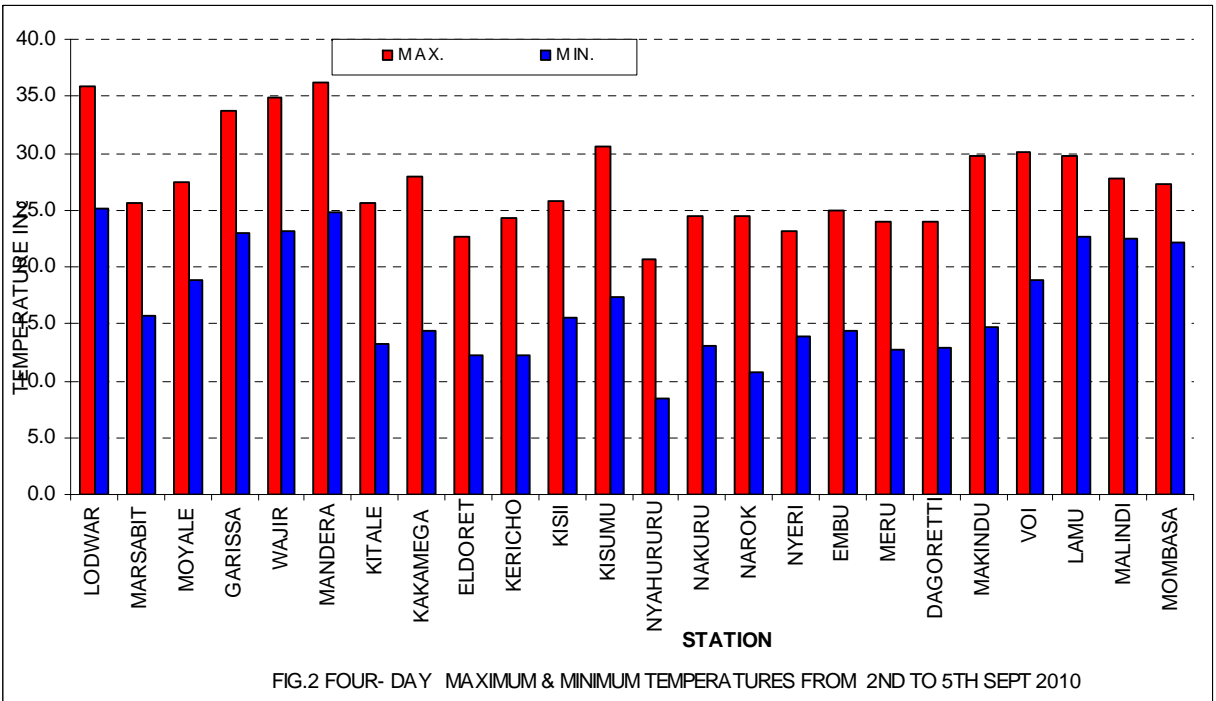
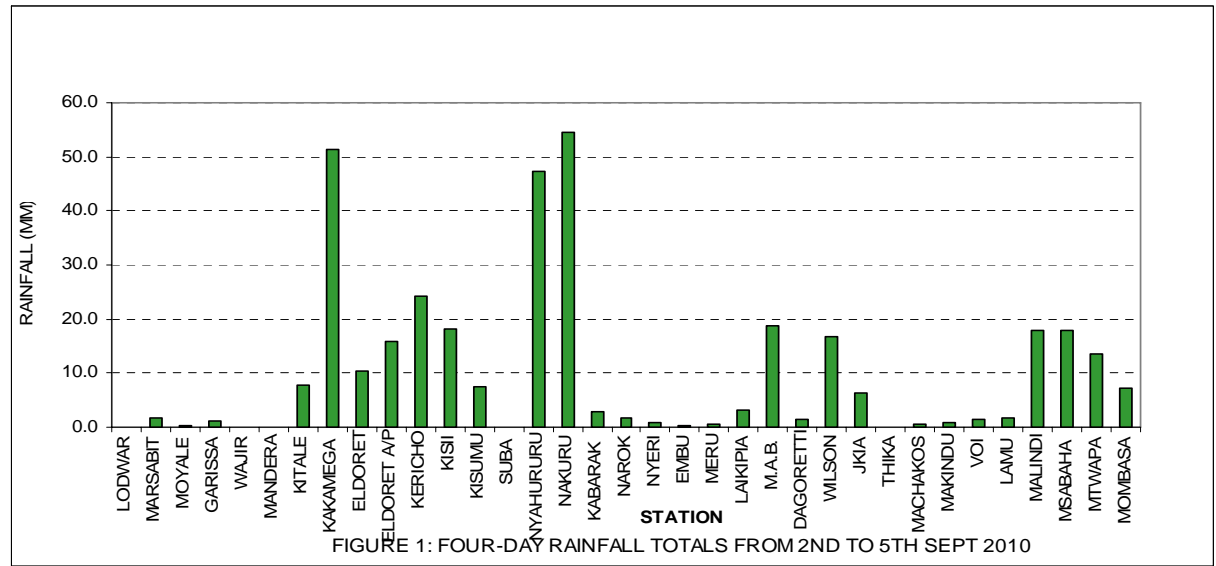
**2. WEATHER SUMMARY FOR THE PERIOD 2<sup>ND</sup> – 5<sup>TH</sup> SEPT 2010**

**a. Rainfall review**

During the four-day review period (2<sup>nd</sup> – 5<sup>th</sup> Sept 2010), rainfall activities were maintained over western Kenya, some parts of the central Rift Valley and the coastal strip. Some light rainfall activities were also recorded over the central highlands and Nairobi area.

Nakuru Meteorological Station recorded the highest 24 hour rainfall amount of 37.2mm. The same station had the highest four-day rainfall total amount of 54.5mm. This was followed by Kakamega, Nyahururu and Kericho Meteorological Stations which recorded seven day rainfall totals of 51.4mm, 47.4mm and 24.2mm respectively. All the other stations that experienced rainfall activities recorded less than 20.0mm or no rainfall at all as shown in **figure 1 below**.

**b. Temperature**



Daytime (maximum) temperatures generally increased in most places across the country while Night-time (minimum) temperatures increased in some places and decreased in other areas during the four-day review period (2<sup>nd</sup> – 5<sup>th</sup> Sept). The

variations in both temperatures were in response to variations in cloud cover during the review period. Nyahururu Meteorological Station recorded the lowest minimum temperature of 5.3°C on 4<sup>th</sup> of September while Manderla Meteorological station

recorded the highest maximum temperature of 36.8°C the following day. The same stations recorded the lowest average minimum and the highest average maximum temperatures of 8.4°C and 36.2°C respectively, as depicted in *figure 2 below*.

### 3: EXPECTED SYNOPTIC DEVELOPMENTS FROM 7<sup>TH</sup> TO 10<sup>TH</sup> SEPT 2010

It is expected that pressures will be;

- i. Moderately strong over the Southern Atlantic Ocean (St. Hellena), weakening slightly towards the end of the forecast period;
- ii. Moderately weak over the Azores throughout the period;
- iii. Moderately weak over the Mediterranean region throughout the forecast period;
- iv. Moderately weak over the South West Indian Ocean (Mascarene) for much of the forecast period;
- v. Moderate over the Mozambique Channel strengthening in the second half of the forecast period; and
- vi. Generally weak over the Arabian region throughout the period.

The low level wind regime is expected to be generally southerly. The upper level wind regimes indicate rapid variations that may also depict similar variations in the weather patterns within the forecast period.

The above synoptic developments indicate:

- Maintenance of rainfall activities over the western highlands and parts of Central Rift Valley;
- Decline in rainfall activities over the central highlands and Nairobi area;
- Dry conditions elsewhere in the country; and
- Cool and cloudy early mornings with light rains/drizzles will continue in parts of central Rift Valley, Central highlands as well as Nairobi area during the forecast period.

### 4: FORECAST FOR THE NEXT FOUR DAYS FROM 7<sup>TH</sup> TO 10<sup>TH</sup> SEPT, 2010

The Lake Victoria Basin, Highlands west of the Rift Valley and Central Rift Valley (Kitale, Kakamega, Kisumu, Kisii, Kericho, Eldoret, Nakuru, Narok, Nyahururu, etc) will experience afternoon/night showers and thunderstorms over several places in the first half reducing to few places in the second half of the forecast period.

The Northwestern districts (Lodwar, Lokitaung, Lokichoggio, etc), will experience mainly sunny intervals throughout the forecast period.

The Central highlands including Nairobi area (Nyeri, Meru, Dagoretti, Embu, etc) will experience cool and cloudy conditions in the early morning with light rains/drizzles and mainly sunny intervals in the afternoons. Light afternoon / night showers are likely to occur over few places in the first half of the forecast period.

The Northeastern districts (Marsabit, Moyale, Mandera, Wajir, Garissa etc), will experience mainly sunny intervals throughout the forecast period.

Southeastern lowlands (Voi, Makindu, Machakos etc), will experience cool and cloudy early mornings breaking into sunny intervals in the afternoons during the forecast period.

The Coastal strip (Mombasa, Kilifi, Malindi, Lamu etc) will experience mainly sunny intervals during the forecast period.

**N.B:** This forecast should be used in conjunction with the daily 24-hour forecast issued by this Department.

#### KEY OF SCIENTIFIC WORDS USED

**High Pressure System (Anticyclone):** An area associated with clear skies or fine weather.

**Ridge:** An elongated area of high pressure from which winds flow outward.

**Most Places:** Between 66% and 100%.

**Several Places:** Between 33% and 66%

**Few Places:** Between 0 and 33%

Kenya Meteorological Department (KMD)

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## Four-day Forecast for 7<sup>th</sup> to 10<sup>th</sup> September 2010



A Public Education and Awareness  
Publication  
Of

The Public Weather Services  
Kenya Meteorological Department  
Dagoretti Corner, Ngong Road,  
P.O. BOX 30259 - 00100  
Nairobi GPO, KENYA

Tel: 254-20-3867880-7, 3876957

Cellphone: 254-724-255153/4

Fax: 254-20-3876955, 3877373

Email: [director@meteo.go.ke](mailto:director@meteo.go.ke)

Website: [www.meteo.go.ke](http://www.meteo.go.ke)