

**SEVEN DAY WEATHER REVIEW FOR 16TH
- 22ND SEPT 2010 AND THE FORECAST
VALID 24TH - 30TH SEPT, 2010**

1. WEATHER HIGHLIGHTS

Review for the last seven-day period (16th -22nd Sept 2010):

- Wet conditions persisted over the western sector during the review period (16th - 22nd Sept 2010). Occasional rainfall also occurred over parts the Nairobi area while the coastal strip experienced a slight pick up in rainfall; and
- Daytime (maximum) temperatures decreased for the first half of the week then started increasing over most places but night-time (minimum) temperatures exhibited no definite trend.

Forecast for the next seven days (24th - 30thSept 2010) indicates:

- Slight reduction in rainfall activities over the western highlands and parts of Central Rift Valley;
- A slight pickup of rainfall activities over the coastal strip in the first half of the forecast period;
- Dry conditions elsewhere in the country; and
- Warmer afternoon temperature with occasional showers over the central highlands and Nairobi area

2. WEATHER SUMMARY FOR THE PERIOD 16TH -22ND SEPT 2010

a. Rainfall review

Wet conditions were maintained over the western sector during the review period (16th -22nd Sept 2010). A slight pick up in rainfall occurred over the coastal strip while Nairobi area experienced some showers during the review period. The rest of the country remained generally dry. Kisumu Meteorological Station recorded heavy 24 hour precipitation amounts of 41.8mm and 32.2mm on 17th and 19th of September respectively. Other stations that recorded heavy rainfall events were Narok, Kisii Dagorett, Kabarak and Nakuru Meteorological stations which recorded 40.2mm, 35.2mm, 20.3, and 20.2 respectively on different days of the week. This rainfall amount contributed significantly to the seven day rainfall totals for these stations. Consequently, Kisumu Meteorological station had the highest seven day rainfall total of 91.7mm followed by Kisii (65.4mm), Kakamega

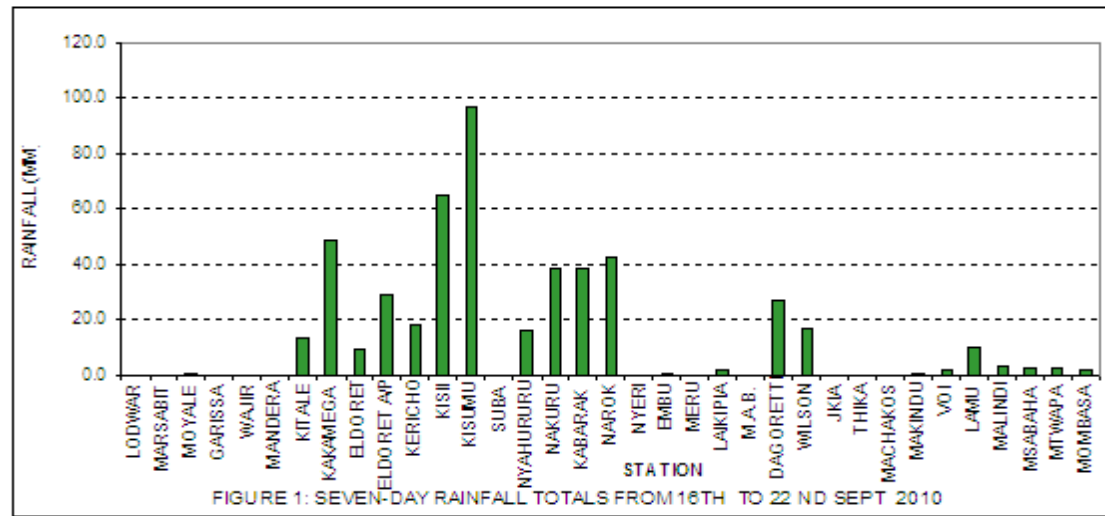


FIGURE 1: SEVEN-DAY RAINFALL TOTALS FROM 16TH TO 22 ND SEPT 2010

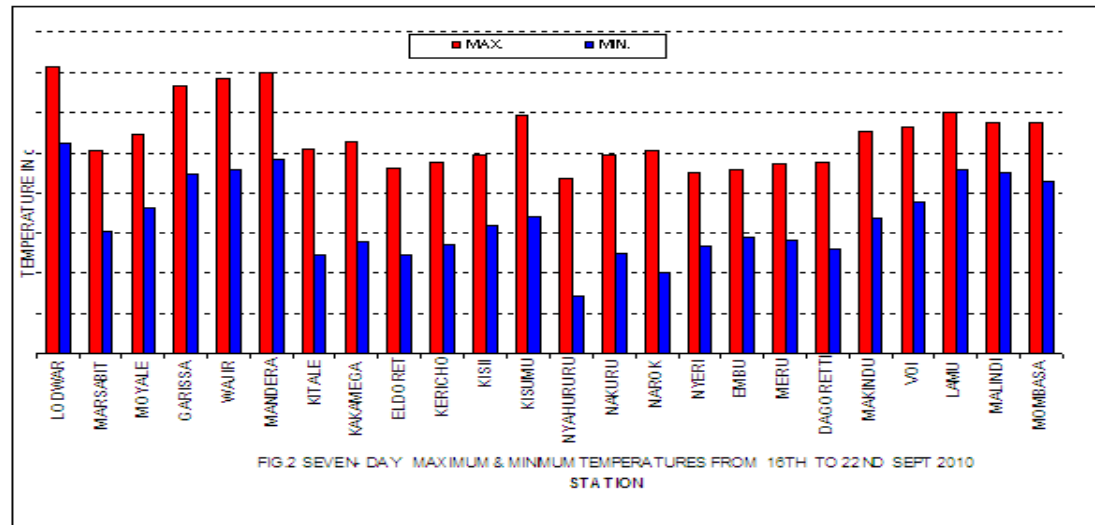


FIG.2 SEVEN-DAY MAXIMUM & MINIMUM TEMPERATURES FROM 16TH TO 22ND SEPT 2010

Meteorological Station (48.4mm), Narok Meteorological Station (42.8mm), Nakuru Meteorological Station, (38.5mm) Kabarak Meteorological Station, (38.2mm) Eldoret Airport, (29.1mm) and Dagoretti Meteorological station (26.7mm). All the other stations that experienced rainfall activities recorded less than 20.0mm as shown in figure 1 below.

b. Temperature

Daytime (maximum) temperatures decreased for the first half of the week then started increasing

over most places but they were exceptionally low on the last day of the review period (22nd September) over the central and southeastern areas as cloud cover increased drastically. Night-time (minimum) temperatures exhibited no definite trend over most places but were slightly higher on the 22nd of September. Nyahururu Meteorological Station still recorded the lowest minimum temperature of 5.4°C on 18th of September while Lodwar Meteorological station recorded the highest maximum temperature of 36.3°C on 17th of September. The same stations recorded the lowest

average minimum and the highest average maximum temperatures of 7.2°C and 35.6°C respectively, as depicted in *figure 2 below*.

3: EXPECTED SYNOPTIC DEVELOPMENTS FROM 24TH TO 30TH SEPT 2010

It is expected that pressures will be;

- i. Strong over the Southern Atlantic Ocean (St. Hellena), weakening with time;
- ii. Weak over the Azores throughout the period with a slight enhancement at the end;
- iii. Moderate over the Mediterranean region weakening with time;
- iv. Moderately weak over the South West Indian Ocean (Mascarene) strengthening slightly as the period progresses;
- v. Moderately weak over the Mozambique Channel weakening further then strengthening slightly toward the end of the forecast period.; and
- vi. Generally weak over the Arabian region throughout the period.

The low level wind regime is expected to be southeasterly while the mid level flow (at 700mb) is expected to be southwesterly occasionally changing to southeasterly. The upper level flow is expected to change from south westerly to northwesterly by mid week and northeasterly at the end of the forecast period.

The above synoptic developments indicate:

- Slight reduction of rainfall activities over the western highlands;
- A slight pickup of rainfall activities over the coastal strip; and
- Dry conditions elsewhere in the country with relatively warmer conditions over the central highlands and Nairobi area.

4: FORECAST FOR THE NEXT SEVEN DAYS FROM 24TH TO 30TH 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 occasionally reducing to few places.

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

The Central highlands including Nairobi area (Nveri, Meru, Dagoretti, Embu, etc) will experience cloudy early mornings breaking into sunny intervals by mid morning to afternoon. Occasional light to moderate afternoon/night showers may occur over few places especially at the beginning 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 sunny intervals throughout the forecast period.

The Coastal strip (Mombasa, Kilifi, Malindi, Lamu etc) will experience morning showers over few places occasionally increasing to several places. The showers are expected to be relatively heavy from 25 to 27 September starting from the south coast and spreading to the northcoast.

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)

KNOW YOUR WEATHER!



Seven-day Forecast for 24th – 30th September 2010



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