

WEATHER REVIEW FOR THE LAST SEVEN DAYS 12TH -18TH AUGUST, 2010 AND THE EXPECTED CONDITIONS DURING THE NEXT SEVEN DAYS VALID 20TH -26TH AUGUST, 2010

1. WEATHER HIGHLIGHTS

Review for the last seven-day period (12th -18th August 2010):

- During the review period (12th - 18th August 2010), some parts of the western sector experienced a pick-up in rainfall activities while the coastal strip experienced a reduction. The central highlands experienced light rains and/drizzle during the review period.
- Maximum temperatures were relatively low during the review period while Minimum temperatures increased slightly over most places.

Forecast for the next seven days (20th -26th August 2010):

The coastal strip is expected to experience a further reduction in rainfall activities while some parts of the western sector are expected to continue experiencing wet weather activities which may occasionally spread to the central highlands. Cool and cloudy conditions with light morning rains/drizzle will prevail over the central areas while the afternoons are expected to be warmer.

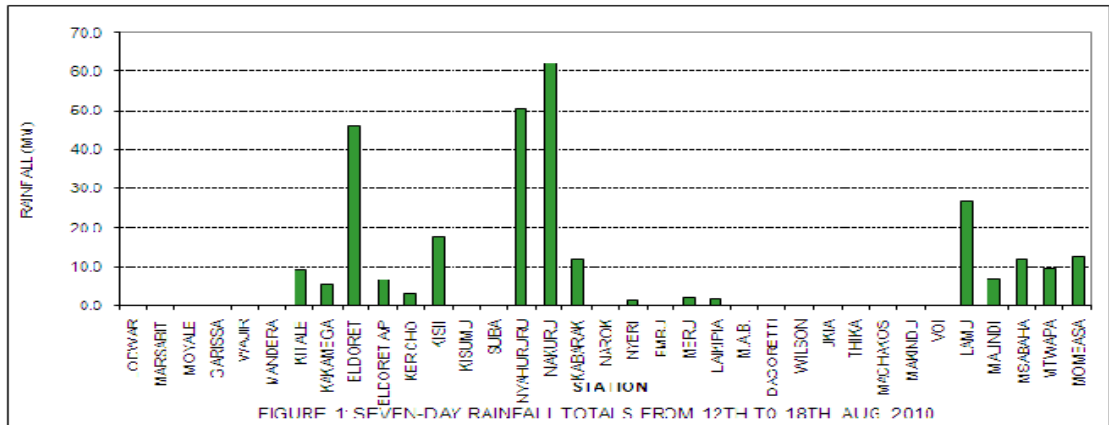


FIGURE 1: SEVEN-DAY RAINFALL TOTALS FROM 12TH TO 18TH AUG 2010

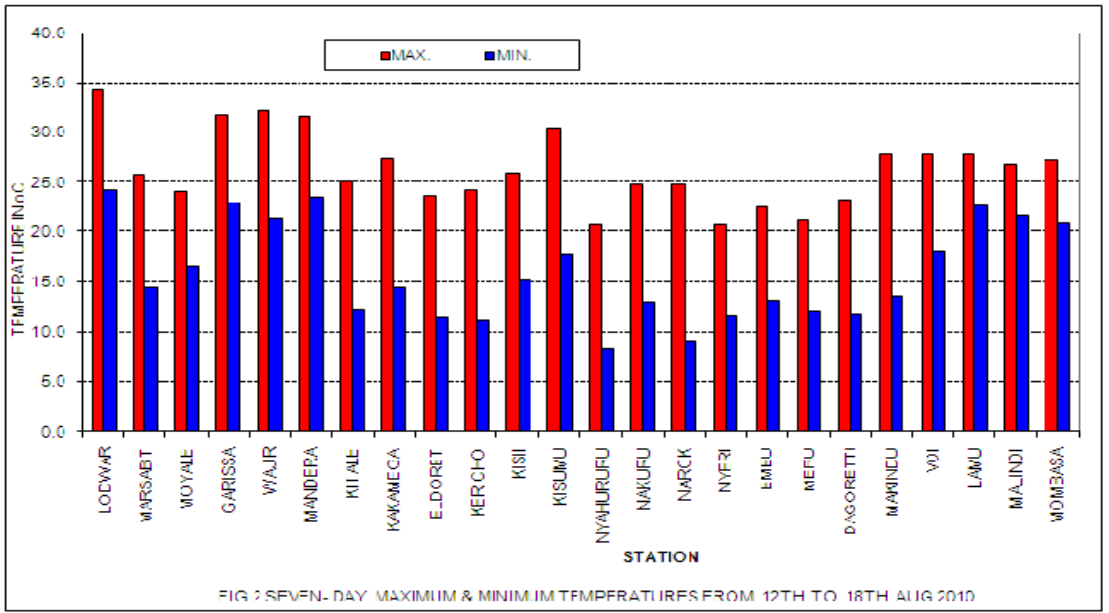


FIG 2 SEVEN-DAY MAXIMUM & MINIMUM TEMPERATURES FROM 12TH TO 18TH AUG 2010

Meteorological station 11.8mm and Msabaha Meteorological station 11.7mm. All the other stations recorded less than 10.0mm or no rainfall at all as shown in **figure 1** above.

b. Temperature Review for the period 12th - 18th August 2010.

Daytime (maximum) temperatures were relatively low during the seven-day review period (12th to 18th August) compared to the previous period. Nighttime (minimum) temperatures

decreased slightly as the period progressed in response to the variation in cloud cover. Nyahuru Meteorological Station once again recorded the lowest minimum temperature of 5.5°C on 13th of August while Lodwar Meteorological station recorded the highest maximum temperature of 35.0°C on 12th of August. The two stations still recorded the lowest average minimum and the highest average maximum temperatures of 8.1°C and 34.3°C respectively. *See figure 2 below.*

The heavy events influenced the seven-day rainfall totals within such that Nakuru Meteorological Station had the highest total of 61.8mm. This was followed by Nyahuru Meteorological Station with 50.5mm, Eldoret Meteorological Station 46.0mm, Lamu Meteorological Station 26.9mm, Kisii Meteorological station 17.6mm, Mombasa Meteorological Station 12.4mm, Kabarak

c. Marine Conditions during the period 12-18 August 2010

The coastal strip experienced a strong low-level monsoonal wind flow with wind speeds in excess of 50 km per hour in some cases. This resulted in strong waves and rough seas during the review period and severely affected some of the socio-economic activities such as fishing.

3: EXPECTED SYNOPTIC DEVELOPMENTS FROM 20TH TO 26TH AUGUST 2010

It is expected that pressures will be;

- i. Weak over the Southern Atlantic Ocean (St. Hellena), strengthening in the second half of the forecast period;
- ii. Moderately weak over the Azores and the Mediterranean regions throughout the forecast period;
- iii. Moderate over the South West Indian Ocean (Mascarene), strengthening and then weakening towards the end of the period;
- iv. Moderate over the Mozambique Channel, weakening by mid of the forecast period and strengthening again towards the end of the period; and
- v. Weak over the Arabian region throughout the period.

The medium level wind regime is expected to be generally southerly and the upper level to be predominantly easterly.

The above synoptic developments indicate:

- Maintenance of light to moderate rainfall along the Kenya-Uganda border;
- Some parts of the western sector are expected to continue experiencing wet weather conditions which may occasionally spread to the central highlands;
- A reduction of rainfall activities over the coastal strip;
- Cool and cloudy conditions with light morning rains/drizzle and warm afternoons over the central areas; and
- Dry conditions elsewhere in the country.

4: FORECAST FOR THE NEXT SEVEN DAYS FROM 20TH TO 26TH AUGUST, 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 light to moderate afternoon showers and thunderstorms over few places especially in the northern parts increasing to several places in the second half of the forecast period.

The Northwestern districts (Lodwar, Lokitaung, Lokichoggio, etc), will experience mainly sunny intervals with showers over few places bordering Uganda and Sudan. The showers may occasionally spread to the others areas in the second half of the forecast period.

The Central highlands including Nairobi area (Nyeri, Meru, Dagoretti, Embu, etc) will experience cool cloudy early morning conditions with light rains/drizzles over few places and sunny intervals in the afternoons, with a chance of shower especially over high ground areas. Relatively warmer conditions will prevail in mid of the forecast period.

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

Southeastern lowlands (Voi, Makindu, Machakos etc), will experience cool cloudy mornings and sunny intervals in the afternoons.

The Coastal strip (Mombasa, Kilifi, Malindi, Lamu etc) will experience light showers over few places in the mornings.

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 20th – 26th August 2010



**A Public Education and Awareness
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Of**

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