



**KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 11, 2013
11-20 APRIL 2013**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased in intensity in most stations countrywide during this current dekad. The highest rainfall amount countrywide was 300.3mm received at Mwea station in Eastern province compared to 221.2mm received at Ngong station in Nairobi region in the previous Dekad. The second highest rainfall of 291.3mm was reported at Thika station in Central region. In Nyanza region, the highest rainfall received was 188.9mm at Suba station. In Nairobi region, Ngong station recorded the highest rainfall of 184.5mm while Kericho station received the highest amount of 134.7mm in the Rift valley. In western region, Kakamega station received the highest amount of rainfall of 11.3mm. Coastal region had Lamu station reporting 93.8mm as the highest rainfall. In North Eastern region the highest rainfall of 80.3mm was received at Moyale station.

Maximum temperatures continued to decrease in most stations, while the minimum temperatures continued to increase in most stations. Mandera station in North Eastern region continued to report the highest maximum temperatures of 34.0°C compared to 36.0°C reported in the previous Dekad. The lowest maximum temperature of 21.6°C was recorded at Ngong station in Nairobi region compared to 22.2°C reported at Ngong station in Nairobi region in the previous Dekad. The lowest minimum temperature of 11.1°C was reported in Nyahururu station in Central region compared to 10.4°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 11; 11-20 APRIL 2013

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

This station received rainfall amount of 111.3mm. The mean air temperature and pan evaporation reported were 21.1°C and 39.0mm respectively. There was no report on sunshine parameter.

Beans and maize are at emergence stage in most farms and in good state due to sufficient rainfall in the current dekad. Most farmers have started weeding.

2.1.2 Kisii

This station recorded rainfall amount of 145.7mm. The mean air temperature and total pan evaporation recorded were 20.2°C and 37.6mm respectively. There was no report on sunshine duration.

Beans and maize were at emergence stage and in good state, although beans have been attacked by some insects.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station received rainfall amount of 91.0mm. The average air temperature and pan evaporation were 14.3°C and 41.4mm respectively. There was no report on sunshine parameter.

Maize and beans were at emergence stage and in good condition. Some farmers have started planting their crops.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 83.6mm. The average air temperature and pan evaporation reported were 18.5°C and 63.1mm respectively. There was no report on sunshine report.

Maize and beans were at emergence stage and in good condition due to the sufficient rain in this current dekad.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 65.2mm. The average air temperature was 19.7°C. There was no report on pan evaporation and sunshine duration.

Maize and beans were at emergence stage and in good state.

2.3.2 Kabete

The station received rainfall amount of 187.5mm. The average air temperature reported was 19.4°C. There was no report on evaporation and sunshine duration.

Maize and beans were at emergence stage and in fair state. Most farmers have finished planting. Coffee was at 100% pin head. It has been attacked by leaf rust 25%, leaf minor less than 10%. Bananas were at 100% appearance of sucker. It has been damaged by thrips 25%, cigger and end rot at less than 10%.

2.3.3 Thika

The station received 291.3mm. The mean air temperature recorded was 21.8°C. There was no report on sunshine and evaporation parameters.

Maize and beans were at emergence stage and in poor condition due to excessive rainfall. Potatoes were also at emergence stage and in poor condition.

2.3.4. Nyahururu

The station received 125.6mm of rainfall. The mean air temperature and pan evaporation recorded were 16.4°C and 32.7mm respectively. The duration of sunshine was 5.9 hours.

Maize was at emergence stage and in fair condition. Also potatoes were at emergence and in fair condition.

2.3.5. Dagoretti

The station received rainfall amount of 151.5mm. The mean air temperature and evaporation pan recorded were 19.8°C and 29.5mm respectively. There was no sunshine parameter recorded.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station reported 232.5mm. The average air temperature was 19.2°C. There was no report on sunshine and evaporation parameters.

Maize and beans were at emergence stage and in poor state due to ongoing excessive rains in this current dekad.

2.4.2 Embu

The station received rainfall amount of 206.5mm. The average air temperature was 15.9°C. There was no report on sunshine and evaporation parameters.

Maize and beans were at emergence stage and in fair state. Most farmers have finished planting.

2.4.3 Katumani (Machakos)

The station received rainfall amount of 128.8mm. The average air temperature was 20.8°C. There was no report on pan evaporation and sunshine parameters.

Maize and beans were at emergence stage and in fair condition. Most farmers have started weeding their crops.

2.5 COASTAL REGION

2.5.1. Msabaha

The station received rainfall amount of 1.0mm. The average air temperature and pan evaporation recorded were 28.5°C and 48.2mm respectively. There was no report on sunshine hours.

Maize was at emergence stage and in fair condition. There has been a reduction of rainfall in this current dekad.

2.5.2 Mtwapa

The station received rainfall amount of 25.8mm. The average air temperature recorded was 25.8°C. There was no report on sunshine and evaporation parameters.

Maize was at emergence stage and in good condition. Mangoes were at fruit setting stage and in good condition.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

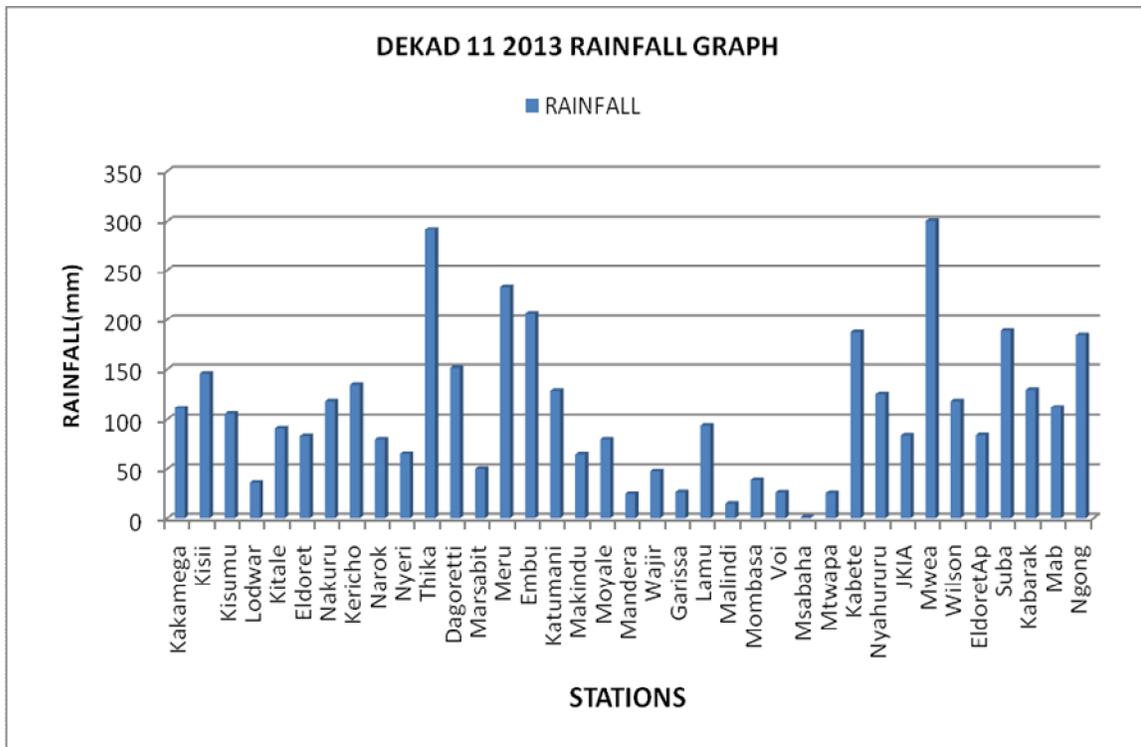


Figure 3.1: Dekadal Rainfall totals for 11-20 APRIL 2013

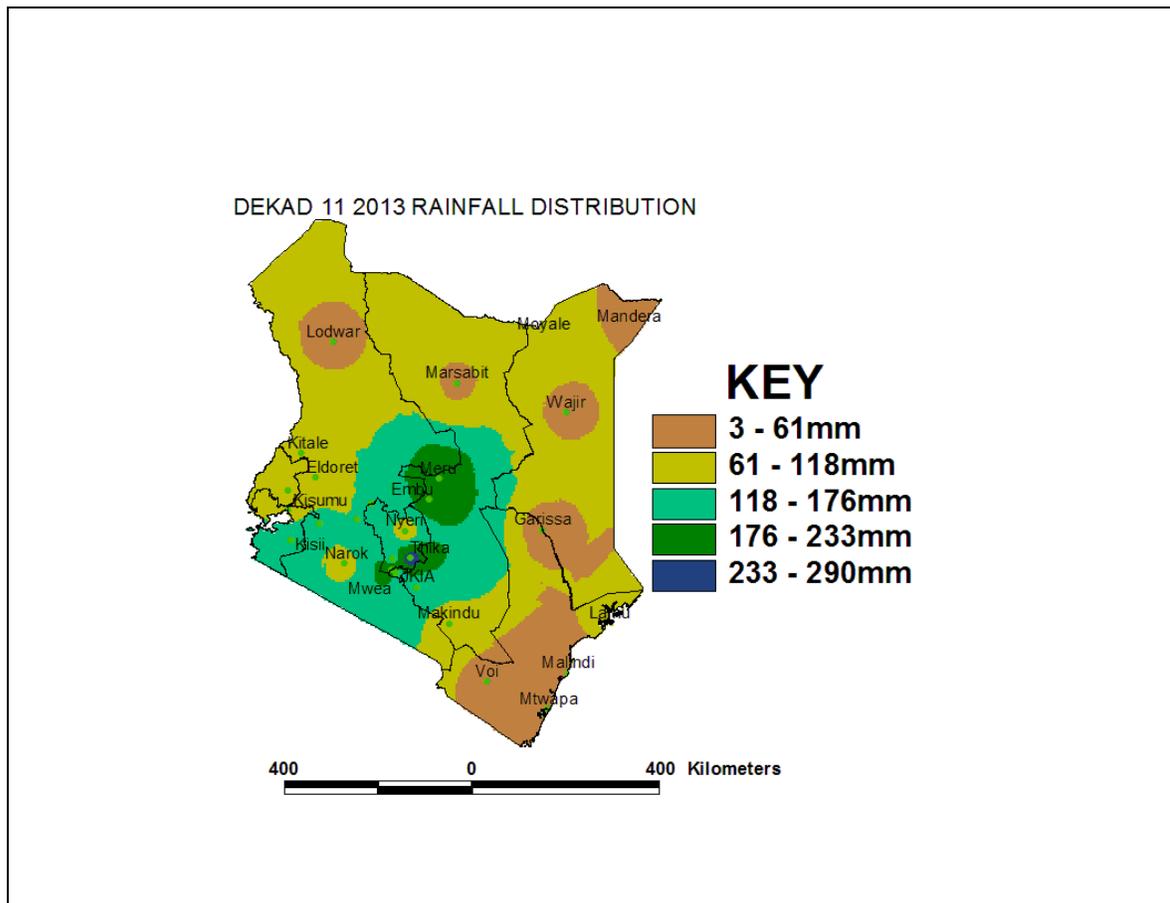


Figure 3.2: Dekadal Rainfall distribution for 11-20 APRIL 2013

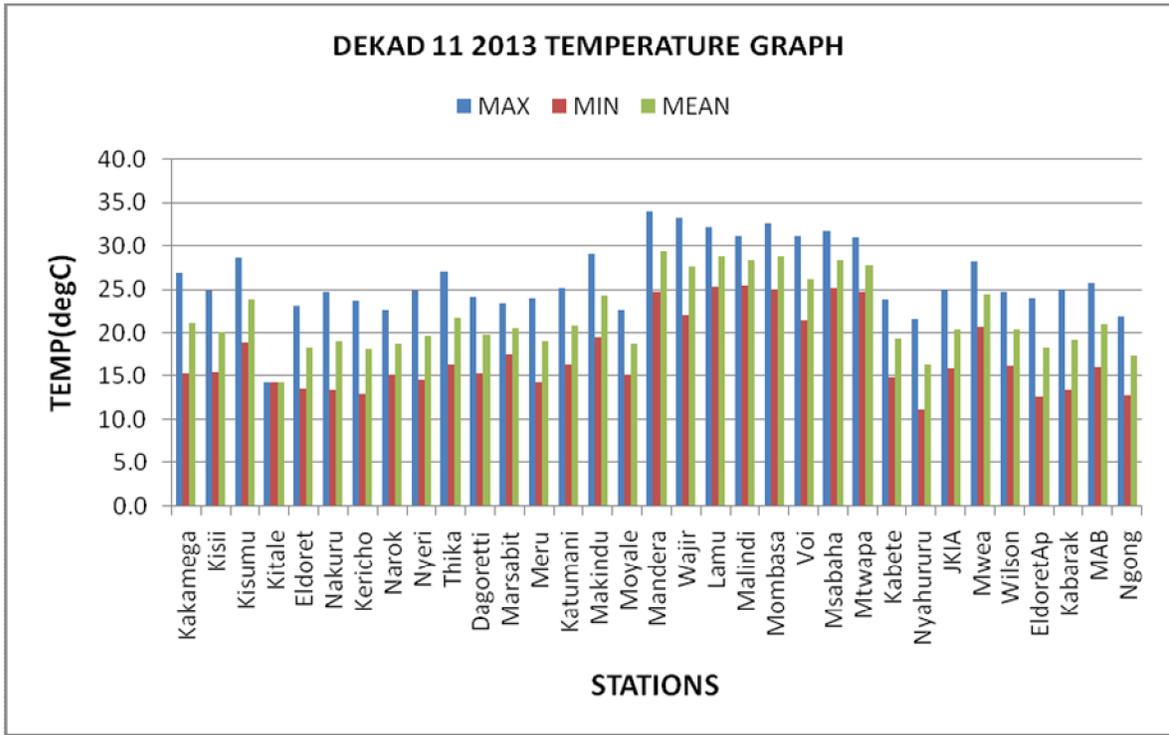


Figure 3.3: Maximum, Minimum and Average temperature in °C for dekad 11 2013

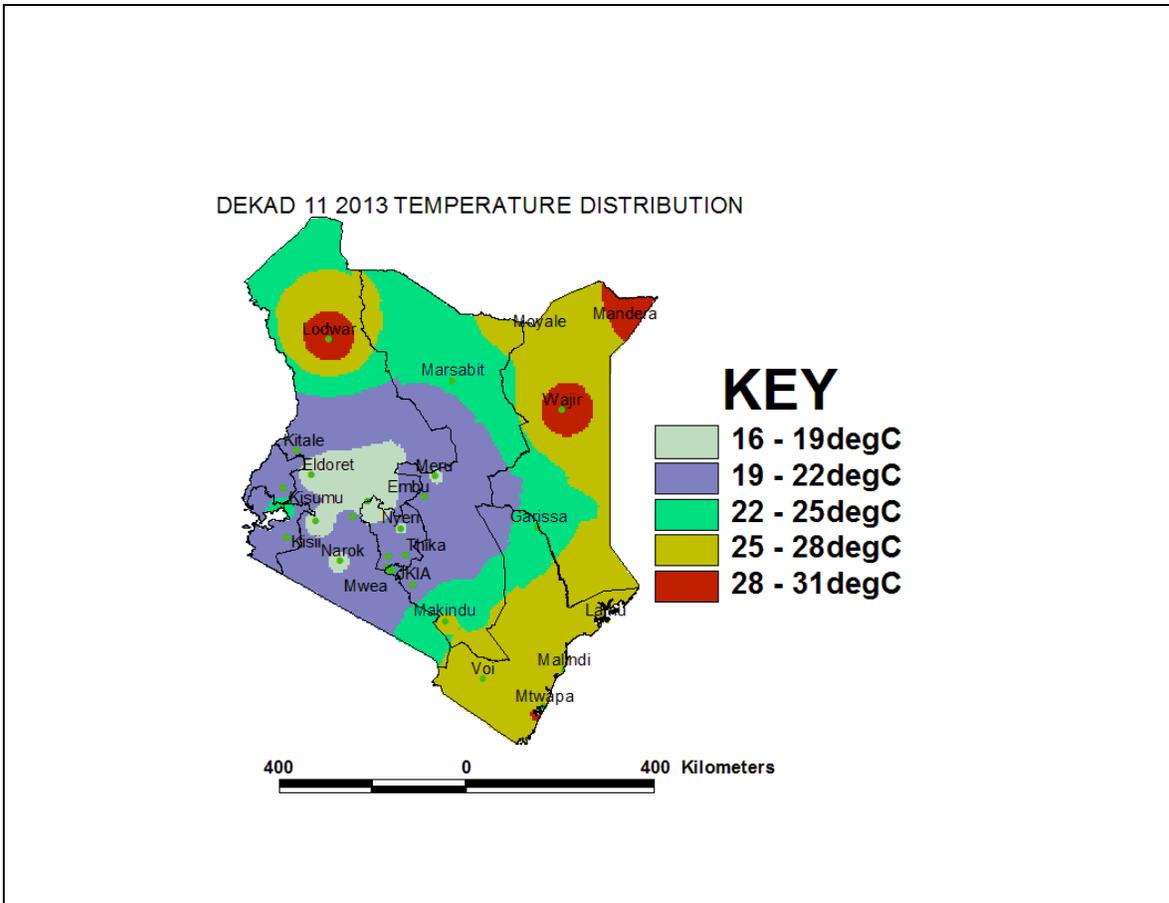


Figure 3.4: Mean temperature distribution for dekad 11 2013

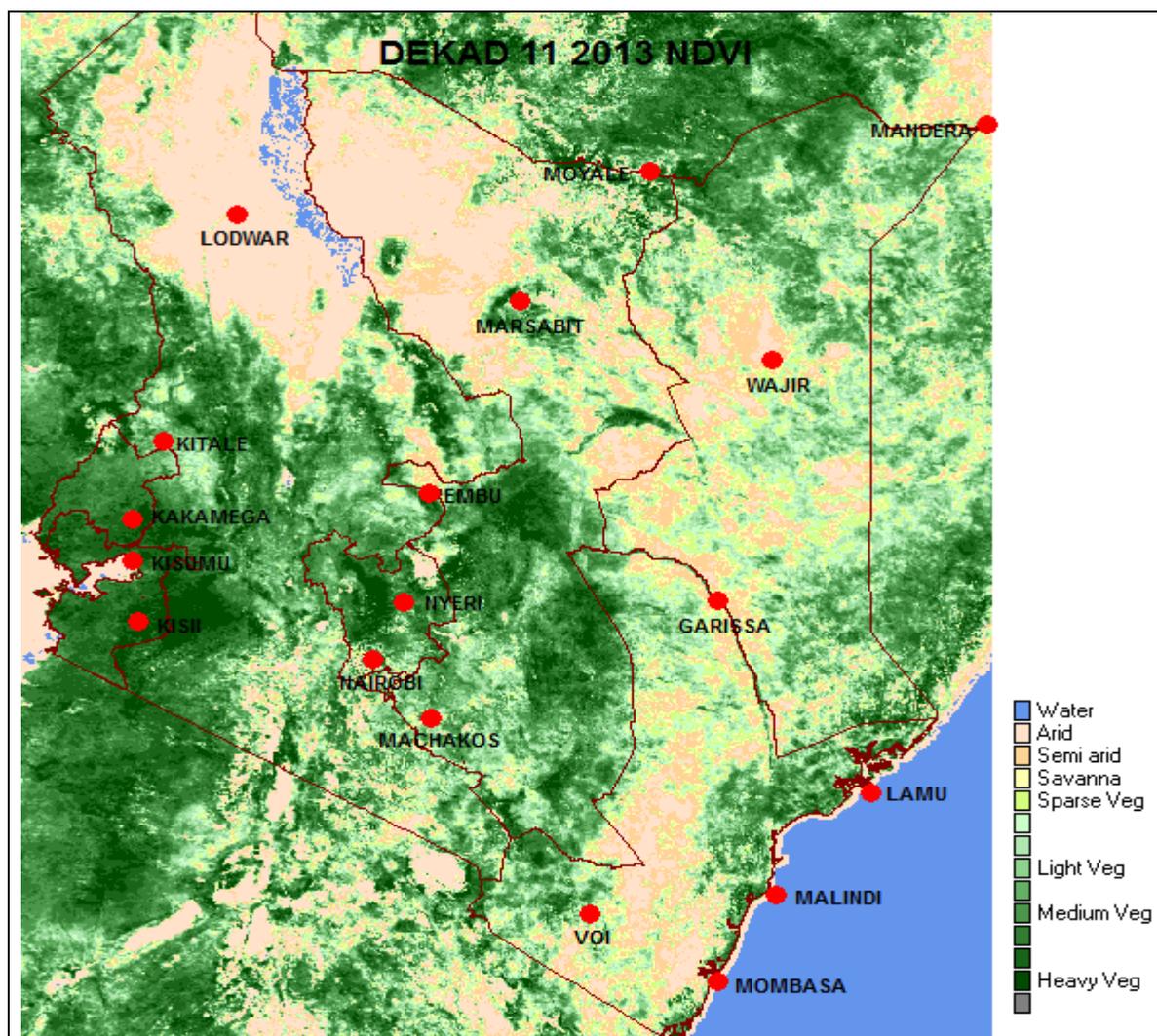


Figure 3.5: Normalized Difference Vegetation Index (NDVI)

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-30 APRIL 2013

✚ **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** , are expected to experience in the mornings rains over a few places throughout the forecast period. Afternoons are expected to experience showers and thunderstorms over several places for the first day, reducing to over few places thereafter.

The showers continue to benefit the crops which are still in their emergence stage in these regions.

✚ **Over the Northwestern counties (Turkana, West Pokot and Samburu)**, are expected to experience mainly sunny intervals throughout the forecast period. Showers over a few places are expected in the afternoon on the first three days of the forecast period followed by sunny intervals on the rest of the days.

The showers will continue benefiting the pasture and vegetation cover in these regions.

- ✚ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga),** are expected to experience mainly cloudy early morning with rains over few places throughout the forecast period. Afternoon showers are expected over few places throughout the forecast period.

The expected showers are of great benefit to the germinating crops in these regions.

- ✚ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience rains over few places in the morning throughout the entire forecast period. Sunny intervals are expected on the first three days of the forecast period, then afternoon/night showers over few places thereafter

The expected showers are of great benefit to the pasture for the animals and vegetation in these regions.

- ✚ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience rains over a few places in the morning throughout the forecast period. Sunny intervals are expected on the first two days then afternoon/night showers over few places throughout the forecast period.

The showers continue benefiting the crops which are still in their emergence stage in these regions.

- ✚ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** are expected to experience morning showers over few places throughout the forecast period. Sunny intervals in the afternoon are expected in the first 2 two days of the forecast period then showers over few places thereafter

The showers continue to benefit the crops which are in their emergence stage in these regions.

For feedback or further guidance, Contact:

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