



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 10, 2014
1-10 APRIL, 2014**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities in the country were well distributed during the dekad as in the previous dekad though slightly less in amount but well in space. Rift Valley Region received the highest amount of rainfall countrywide with Kericho station recording 132.8mm as compared to 136.7mm recorded in the station in the previous dekad. In Western region Kakamega received the highest amount of rainfall of 106.3mm which was an increment as compared to the previous dekad. In North Eastern region, Moyale recorded the highest amount of rainfall of 60.0mm. In Eastern region, Meru station recorded the highest amount of rainfall of 59.1mm. In the Coastal region, Mtwapa station received the highest amount of rainfall of 74.6mm. In Nairobi region Kabete station received the highest amount of rainfall of 21.6mm which was a decline as compared to the previous dekad. In Lake Region, Kisii station recorded 55.9mm of rainfall which was the highest rainfall in the area. In Central region, Thika station recorded the highest amount of rainfall of 52.8mm as compared to 40.4mm in the previous dekad.

There was a slight increase in the maximum temperature country wide. Mandera station recorded the highest maximum temperature of 38.1°C compared to 36.4°C recorded in Lodwar station in the previous dekad. The minimum temperature decreased significantly in most stations countrywide with Nyahururu station in Central region recording the lowest temperature of 6.5°C compared to 8.7°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 10; 10TH APRIL 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded rainfall amount of 106.3mm during the dekad. The mean air temperature is 21.2°C. There was no record on sunshine duration and Pan Evaporation.

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

2.1.2 Kisii

The station recorded rainfall amount of 55.9mm. The mean air temperature and Pan Evaporation were 20.2°C and 34.4mm respectively. No records on Sunshine duration.

Both maize and beans were at emergence stage and in good state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 46.2mm. There were no records on average air temperature and sunshine duration. The Pan Evaporation record was 42.2mm.

Maize and beans were at emergence stage and in good state, planting is still underway and there is sufficient rain.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 10.6mm and the average air temperature reported was 18.7°C. Pan Evaporation was 62.1mm. No record on sun shine.

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

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 13.8mm over the dekad. The average air temperature was 18.5°C. There was no report on pan evaporation and sunshine parameters.

Maize and beans were at emergence stage and in fair state. Maize crop planted in the previous season were at harvesting stage. But due to insufficient rain and damage by maize stalk borer, expected yield is below normal.

2.3.2 Kabete

The station recorded rainfall amount of 21.6mm over the dekad. The average air temperature and the Pan Evaporation recorded were 18.2°C and 49.3mm respectively. There was no report on sunshine duration.

Both maize and beans crops were at emergence stage and in good condition.

2.3.3 Thika

The station recorded rainfall amount of 52.8mm. The mean air temperature and pan evaporation recorded were 21.1°C and 51.4mm respectively. There was no report on sunshine duration.

Maize, Potatoes and beans were all at emergence stage and in good state.

2.3.4. Nyahururu

The station recorded rainfall amount of 21.7mm. The mean air temperature and pan evaporation recorded were 14.7°C and 54.7mm respectively. There was no report on sunshine duration.

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

2.3.5. Dagoretti

The station reported rainfall amount of 10.4mm during the dekad. The average air temperature and Pan Evaporation were 19.8°C and 50.4mm respectively. No report on sunshine duration.

No phenological report.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded rainfall amount of 59.1mm. The average air temperature and Pan Evaporation recorded were 19.3°C and 48.6mm respectively. No report on Sunshine duration.

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

2.4.2 Embu

The station reported rainfall amount of 39.6mm. Pan Evaporation was 44.6mm. There was no report on Temperature and Sunshine duration.

Maize and beans were at emergence stage and in a fair state.

2.4.3 Katumani (Machakos)

The station recorded rainfall amount of 15.9mm. The average air temperature reported was 20.9°C. There was no report on pan evaporation and Sunshine duration.

Both maize and beans were at emergence stage and in fair state.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 0.6mm. The average air temperature and Pan Evaporation recorded was 29.3°C and 58.1mm respectively. There was no report on sunshine duration.

Planting of maize crops and beans is underway.

Mangoes were at 100% fruit setting stage and in good state.

2.5.2 Mtwapa

The station received rainfall amount of 74.6mm. The average air temperature recorded was 28.6°C. There was no report on sunshine duration Van Evaporation.

Planting of maize and beans is underway.

Mangoes were at flowering stage and in good state.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

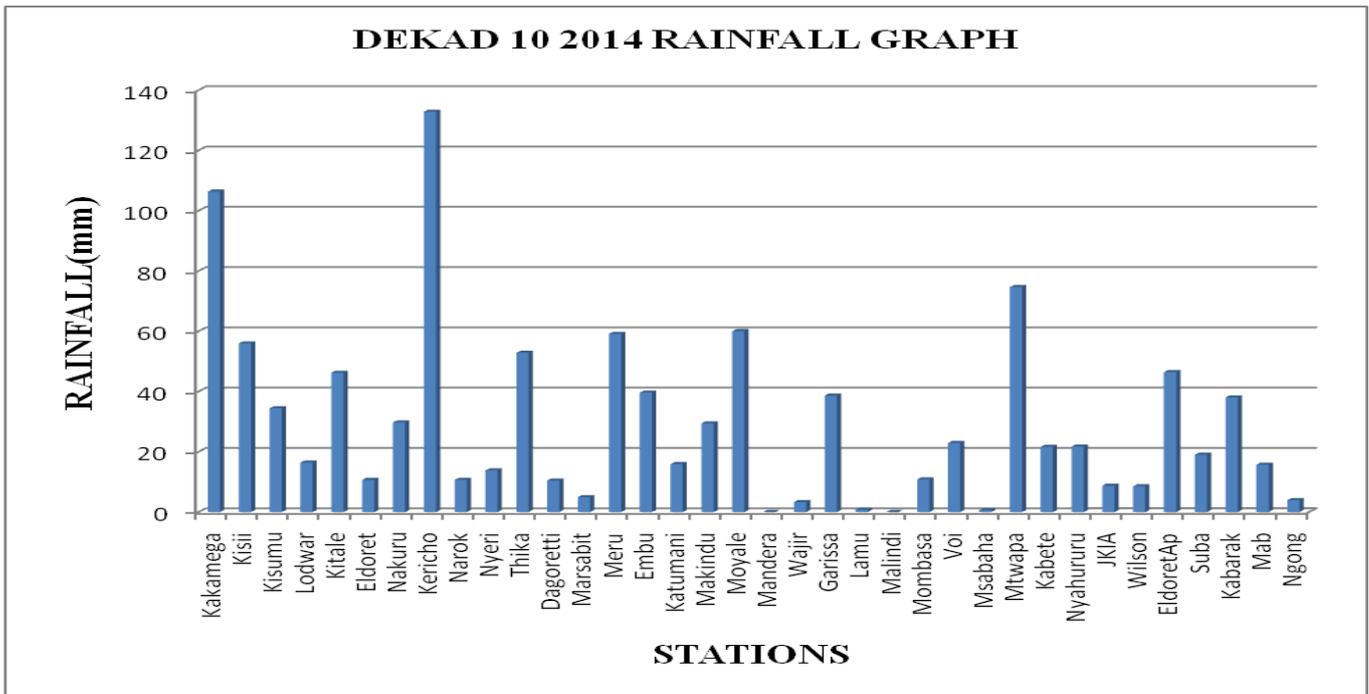


Figure 3.1: Dekadal rainfall totals for 1st to 10th March 2014

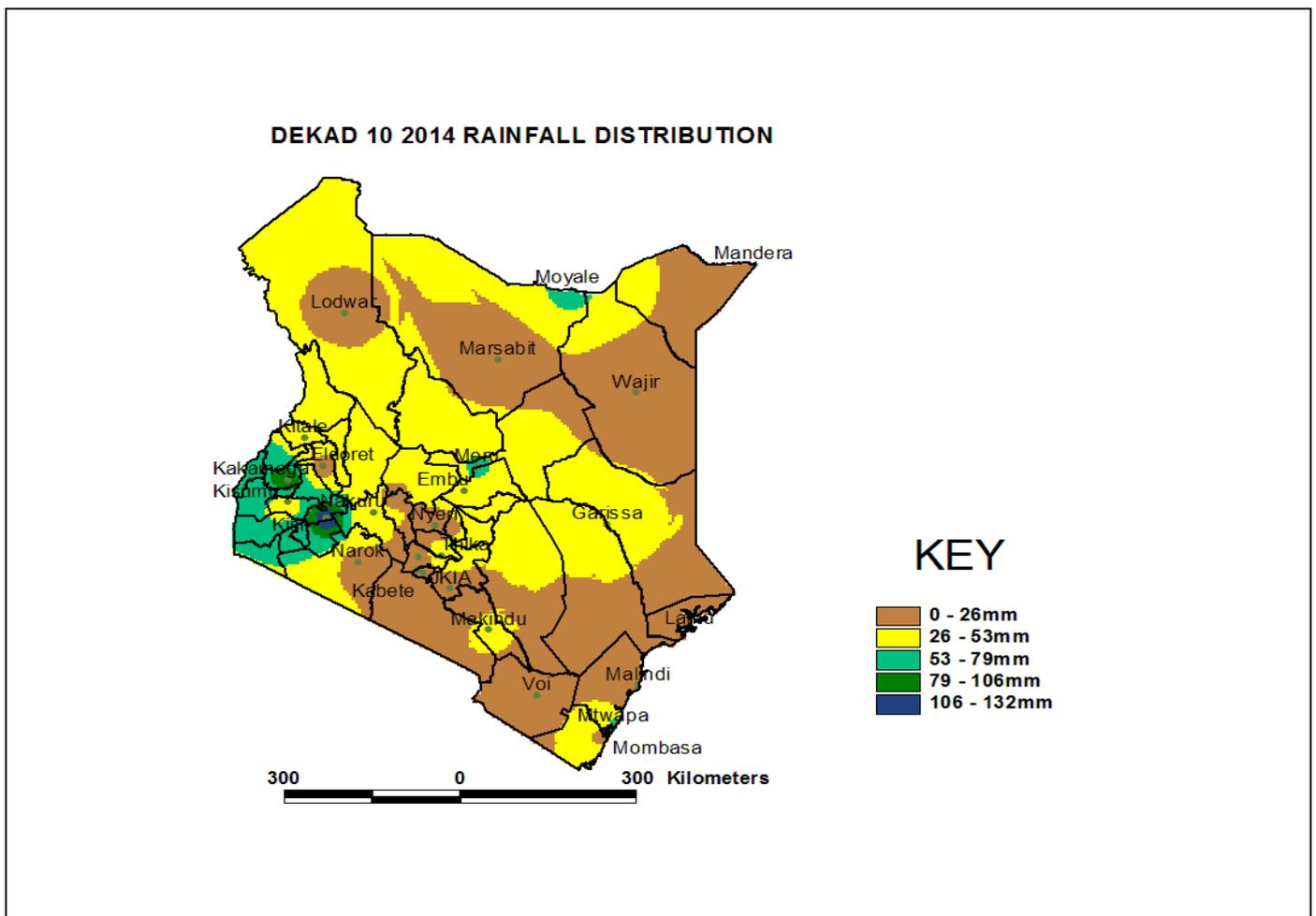


Figure 3.2: Dekadal rainfall distribution for dekad 10, 2014

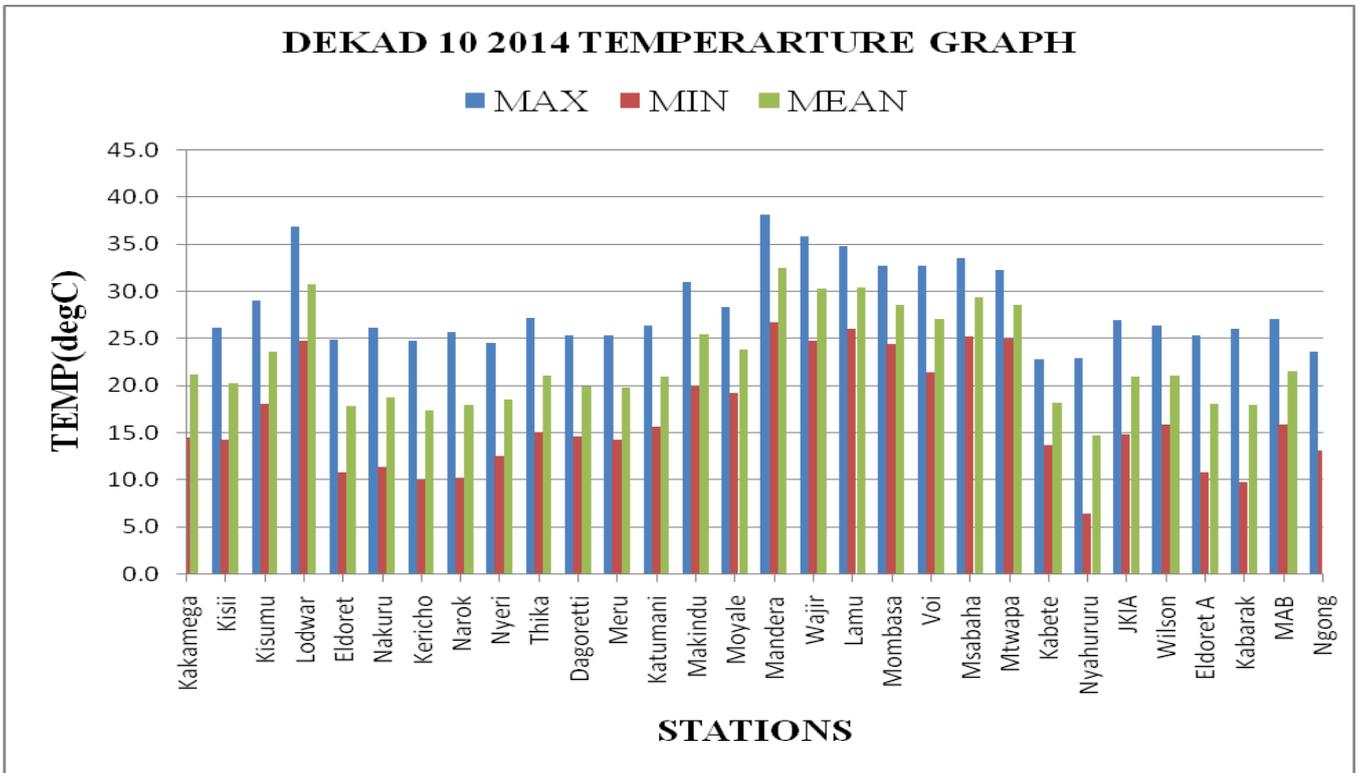


Figure 3.3: Maximum, Minimum and Average temperature in °C for dekad 10, 2014

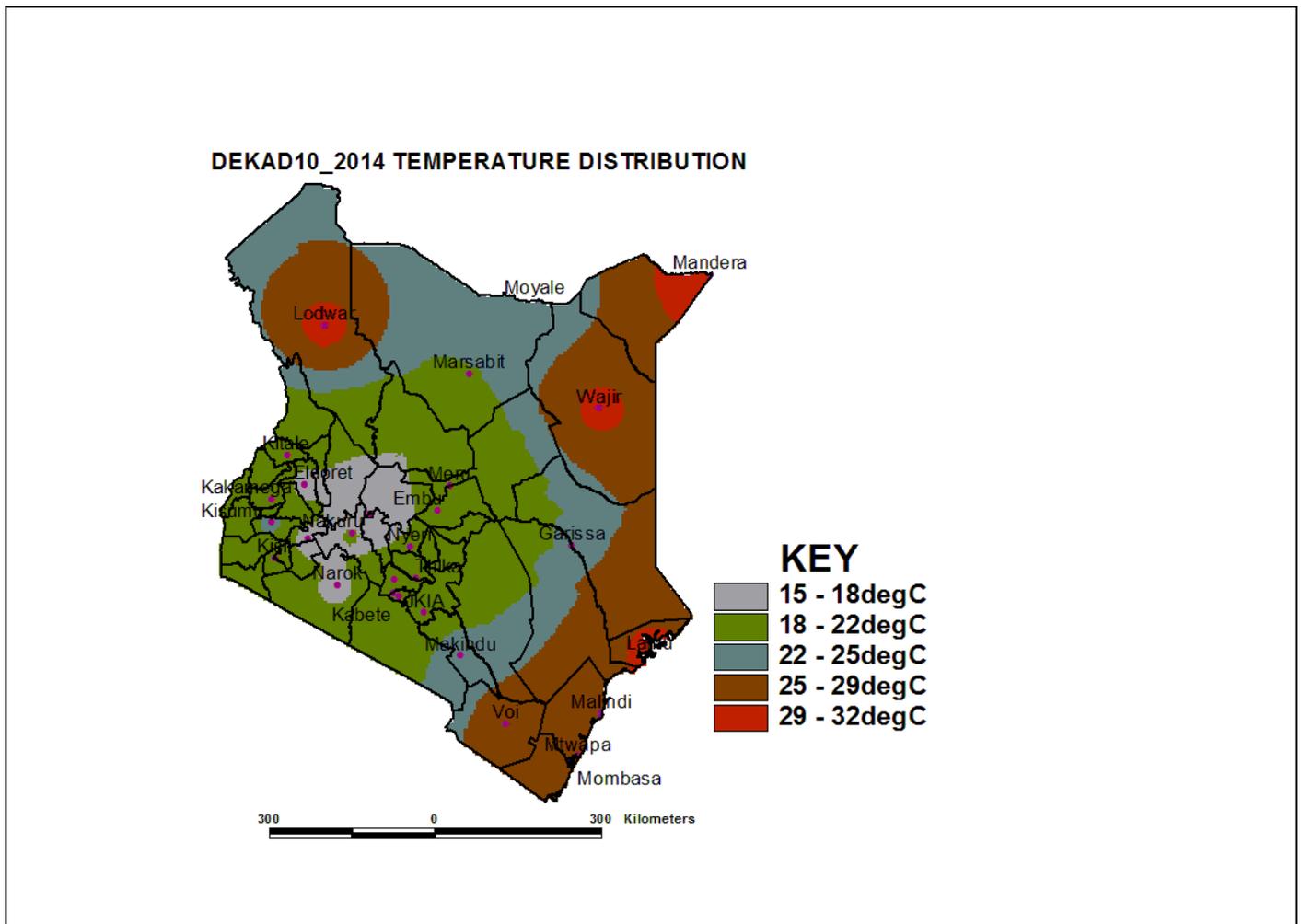


Figure 3.4: Mean temperature distribution for dekad 10, 2014

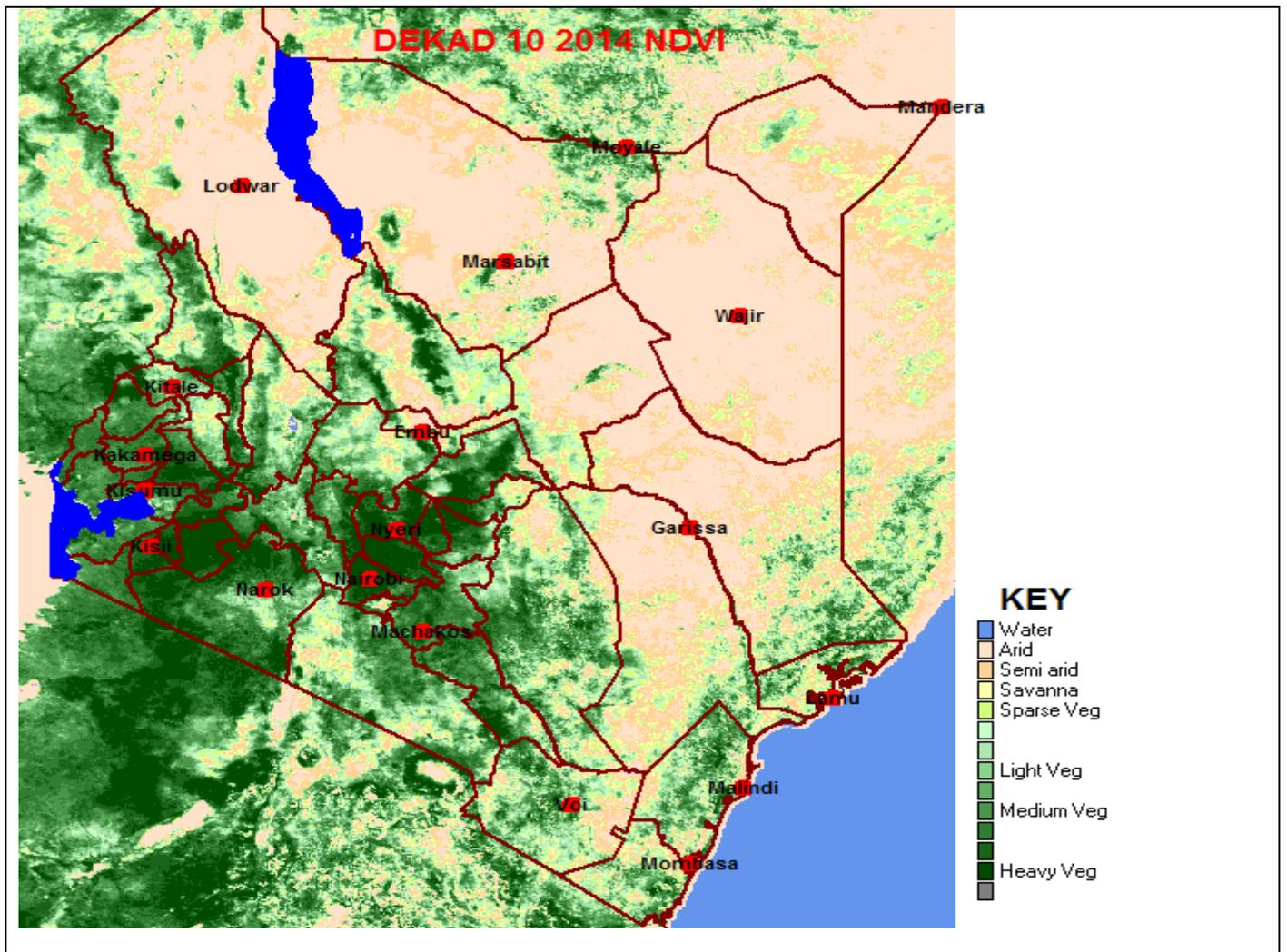


Figure 3.5: Normalized Difference Vegetation Index (NDVI)

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11-20 APRIL 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),** are expected to experience rains over few places breaking to sunny intervals in the first days of the focus, then sunny intervals during the other half in the morning sessions. In the afternoons, there would be showers and thunderstorms over several places throughout the forecast period.

The afternoon showers will be expected to benefit the growth and the development of the crops, which are still mainly in emergence stage.

- ❖ **Over the Northwestern counties (Turkana, West Pokot and Samburu),** Sunny intervals in the morning are expected during the whole of the forecast period. In the afternoons, expect mainly sunny intervals with showers and thunderstorms over few places throughout the forecast period.

The wet condition is expected to improve the state of 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 mainly cloudy early morning with rains over few places giving way to sunny intervals throughout the forecast period. In the afternoons, showers and thunderstorms will be expected over few places throughout the forecast period.

The expected showers will continue to enhance the state of the crops and vegetation in the region.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience rains over few places turning to several places throughout the forecast period during the morning session. In the afternoons, there would be mainly sunny intervals with showers over few places throughout the forecast period.

The expected showers during the dekad will enhance the state of pasture and vegetation in this region.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience mainly cloudy early morning with rain over few places during the forecast period and during the afternoon session there would be mainly sunny intervals.

The wet conditions expected will regenerate the crops, pasture and vegetation in the region.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** is expected to experience mainly showers over few places during morning session, during afternoon session, sunny intervals is expected throughout the forecast period.

The sunny condition expected may have a negative impact on the crops which are still mainly in emergence state in this region.

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