



KMD

AGROMETEOROLOGICAL BULLETIN

KENYA METEOROLOGICAL DEPARTMENT

29th Dekad, 11th to 20th October, 2009

Issue No. 29/2009, Season: OND

HIGHLIGHTS

- *During the 29th Dekad i.e. 11th – 20th October, 2009, moderate to heavy rainfall was received over the Western, Eastern, Nyanza, and parts of Central Rift Valley with Kakamega, Kisii, Kisumu, Kericho, Kitale, Eldoret, and Nakuru recording 45.2, 10.8, 12.3, 15.8, 15.0, 10.5 and 38.5mm respectively. The Coastal regions experienced heavy rainfall with Voi, Lamu, Mombasa, Mtwapa, Msabaha, and Malindi recording Dekadal rainfall totals of 61.1, 169.5, 56.3, 35.5, 93.8 mm and 139.4 mm respectively. Central Province, experienced moderate to heavy rains with Nyahururu, Nyeri and Thika recording Dekadal rainfall totals of 24.2, 83.4 and 112.8 mm respectively. Nairobi area and its environs experienced moderate to heavy rains with Kabete, Dagoretti, Wilson and J.K.I.A recording 77.0, 44.9, 28.9, and 8.6 mm respectively. Eastern region experienced heavy rainfall with Meru, Embu, Marsabit and Machakos recording 234.8, 156.8, 113.7 and 26.4mm respectively. North eastern region experienced heavy rainfall with Mandera, Wajir and Garissa recording 60.8, 33.0, and 94.0 mm respectively. (Fig 1&2.)*
- *Day time temperatures relatively decreased due to increased cloud cover over Western, Central Rift Valley, Central Province, Nairobi area and its environs and the Coastal region with Kakamega, Kisumu, Nakuru, Eldoret, Mwea, Nyeri, Meru, Embu, Thika, Dagoretti, Moyale, Makindu and Mombasa recording a Dekadal Mean day Maximum of 28.1, 31.0, 26.0, 22.8, 28.5, 23.6, 23.6, 25.7, 25.6, 23.3, 27.0, 28.8 and 29.9 deg. Celsius respectively. (Fig 2&3).*
- *Night temperatures relatively remained high over Western and Central Rift Valley, Central Highlands, Nairobi area and its environs during the Dekad with Nyahururu, Narok, Eldoret Airport, Nakuru, Nyeri, Embu, Thika,*

Kabete and Dagoretti recording a Dekadal mean minimum of 8.3, 12.4, 12.1, 13.1, 13.6, 14.9, 14.8, 13.5 and 13.9 deg Celsius respectively. (Figs 1-6).

CROP AND WEATHER REVIEW; 11TH TO 20TH OCTOBER 2009

Central Province and Nairobi Area:

Cool and cloudy mornings with moderate to heavy rainfall over high ground areas were experienced in Central province, Nairobi area and its environs during the Dekad. Farmers are planting due to the onset of the short rains. (Fig 1-4).

Eastern Province:

Cool and cloudy mornings with heavy rainfall over high ground areas, was experienced over several places bordering Mt. Kenya (Embu, Runyenjes, Chogoria, Chuka and Meru) during the Dekad. (Fig1-5)

(Fig1-6).

Coast Province:

Heavy amount of rainfall was experienced over several places during the Dekad (Lamu, Malindi, Mtwapa, Msabaha , Voi). In Lamu, farmers are preparing their farms for the second planting. (Figs.1-4).

North Eastern Province:

Sunny and wet conditions were experienced in the region (Mandera, Moyale, Wajir and Garissa) during the Dekad. (Figs.1, 2, 3, 4, 5 & 6).

Western Province:

Moderate rainfall was experienced over several places of this region (Kakamega, Bungoma, Busia) during the Dekad. Generally most crops (cash and food crops) are doing well and corresponding to normal growth. The maize crop is at flowering stage and is corresponding to normal growth with normal yields being expected. (Figs.1-4).

Nyanza and Central Rift Valley:

Moderate rainfall was experienced over most places in this region (Kisumu, Nyamira, Kisii, Eldoret, Kitale, Kericho) during the Dekad. In areas around Kisii, weeding is almost complete and beans have started flowering. While in Kitale

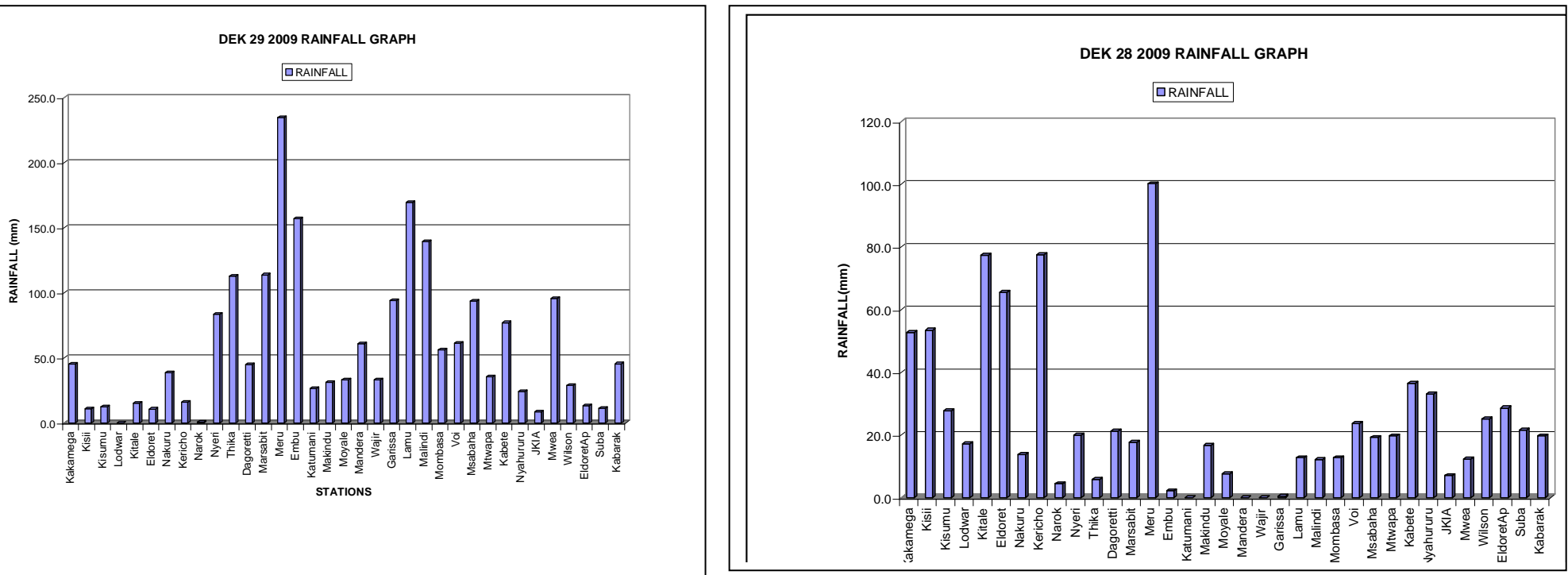
farmers are through with the harvesting of maize. In Kisumu weeding is going on and beans have started flowering. (Figs.1-4).

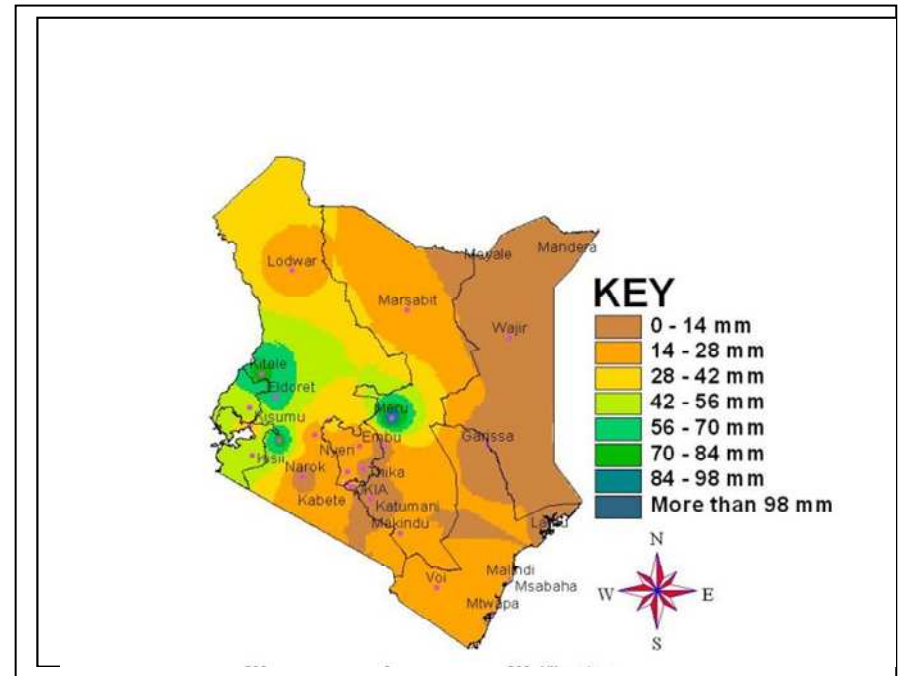
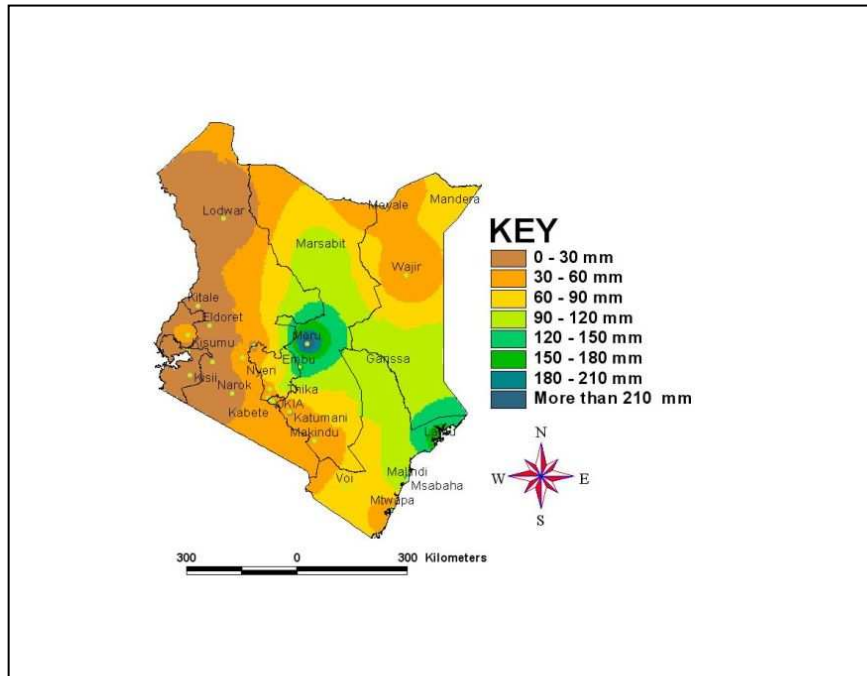
Northern and Southern Rift Valley:

Northern Rift Valley (Lodwar, Lokitang) experienced generally sunny and dry conditions during the Dekad. This has resulted in inadequate pastures and water sources for livestock, wildlife and human use leading to death of livestock and wildlife. (Figs.1-6).

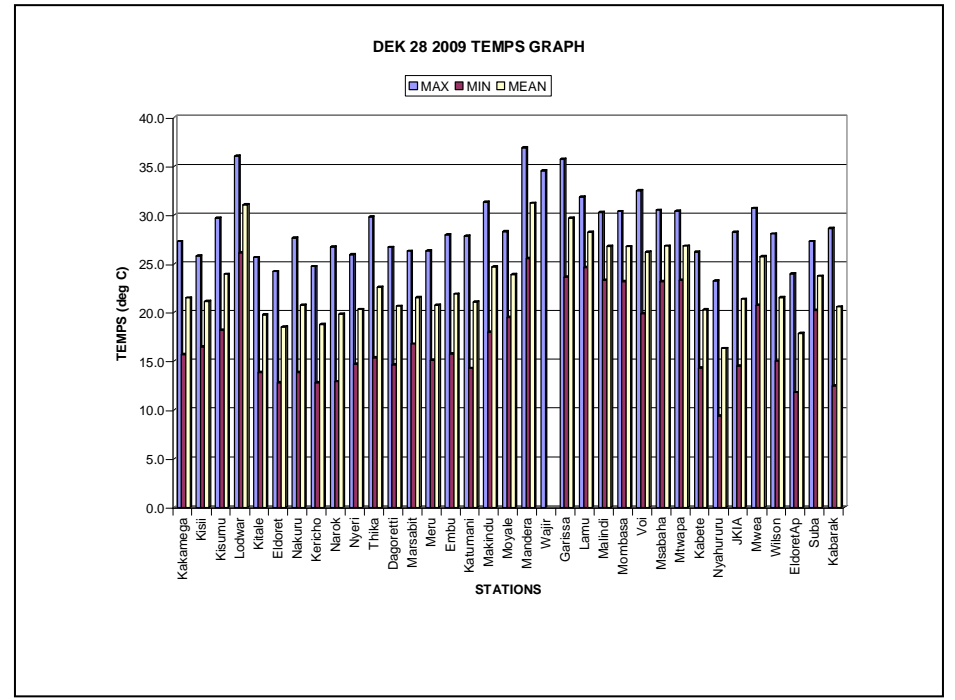
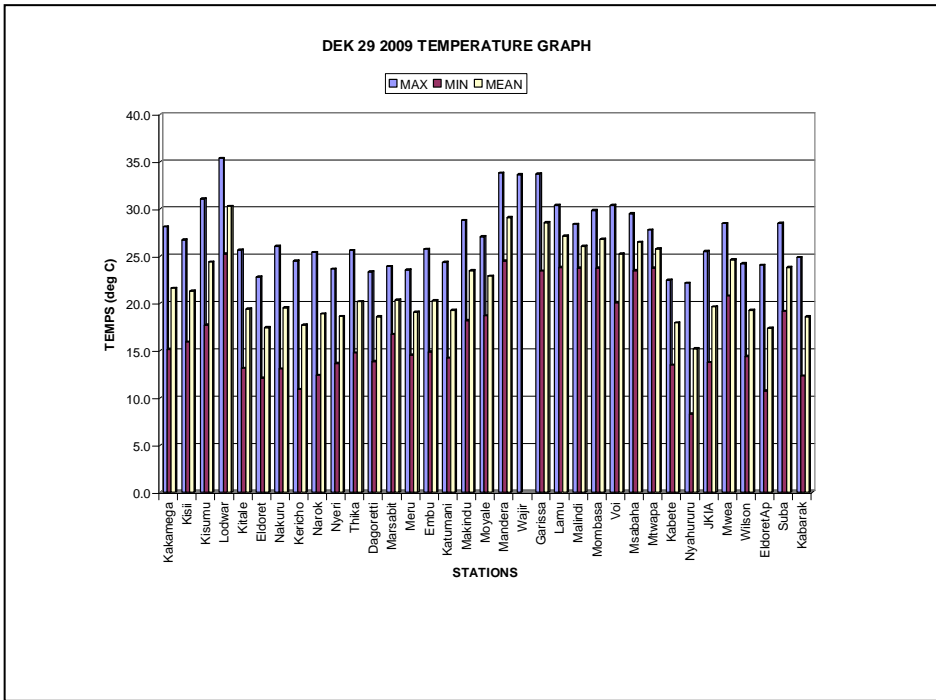
The pastoral regions of Southern Rift Valley(Narok, Kajiado, Mara) experienced mainly sunny and dry conditions resulting in inadequate water sources for livestock, wildlife and human use. Pastures remained inadequate resulting in poor animal health (both livestock and game). (Figs.1, 2, 3, 4, 5 &6).

Fig. 1: Actual Rainfall (11th to 20th October, 2009) and (1st to 10th October, 2009) in mm

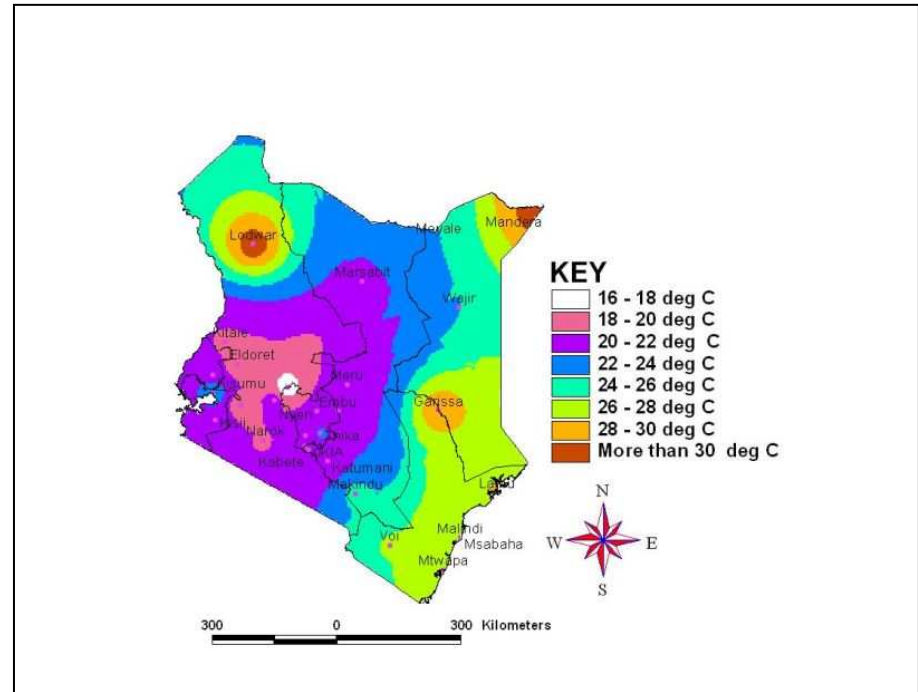
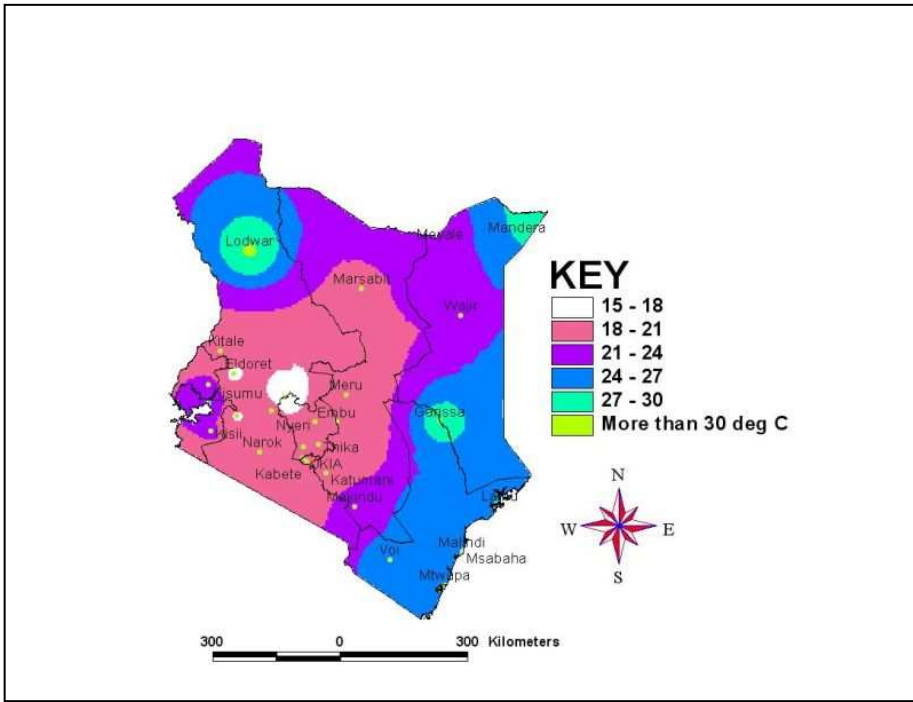




Figs. 2: Dekads 29 and 28, 2009 rainfall distribution.



Figs 3: Mean Temperatures (11th to 20th October, 2009) AND (1st to 10th October, 2009) deg. Celsius



Figs. 4: Dekads 29 and 28, 2009 mean temperatures distribution

FIG 5: DEKADAL 28 Normalized Difference Vegetation Index (11th to 20th October, 2009)

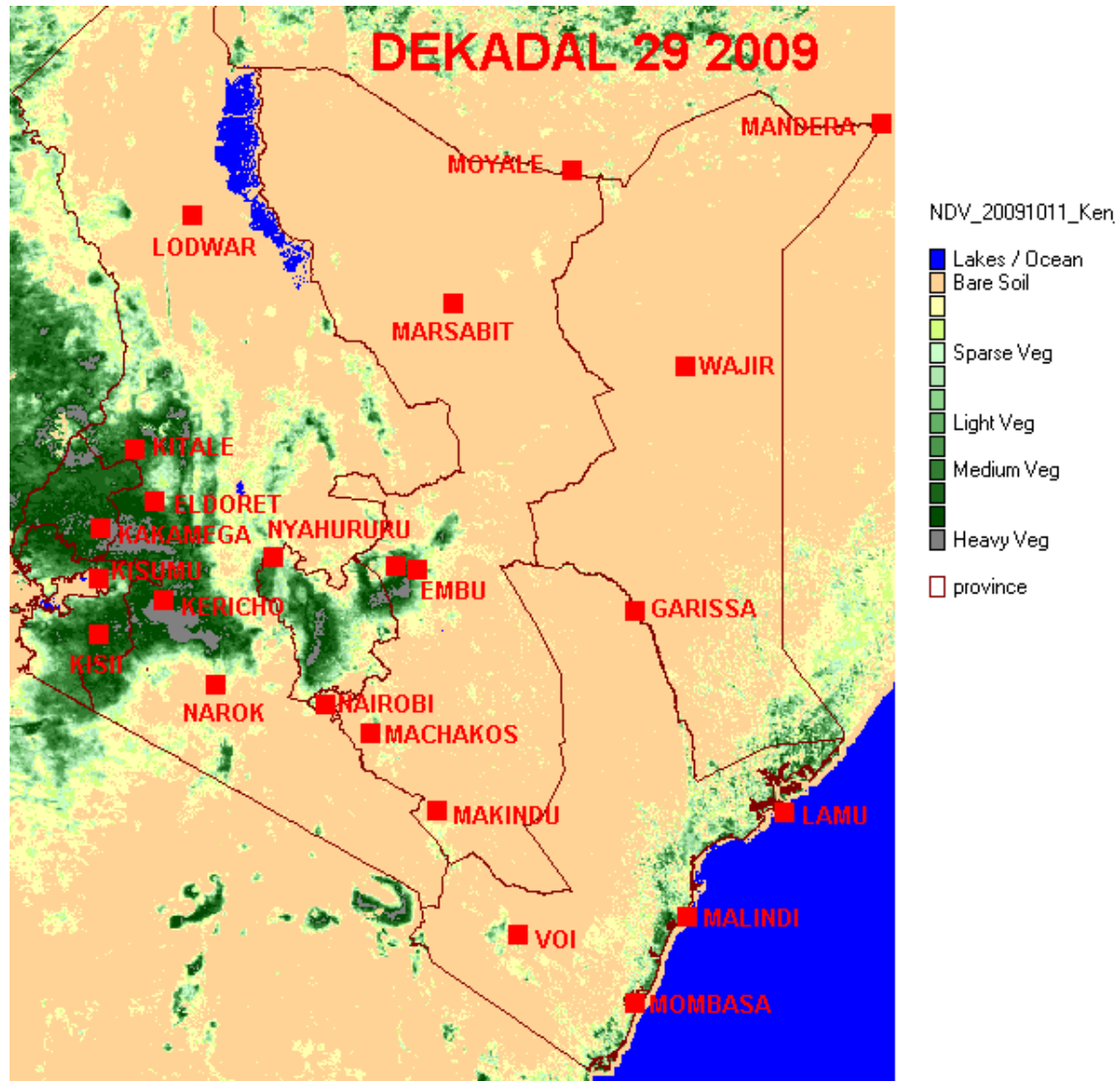
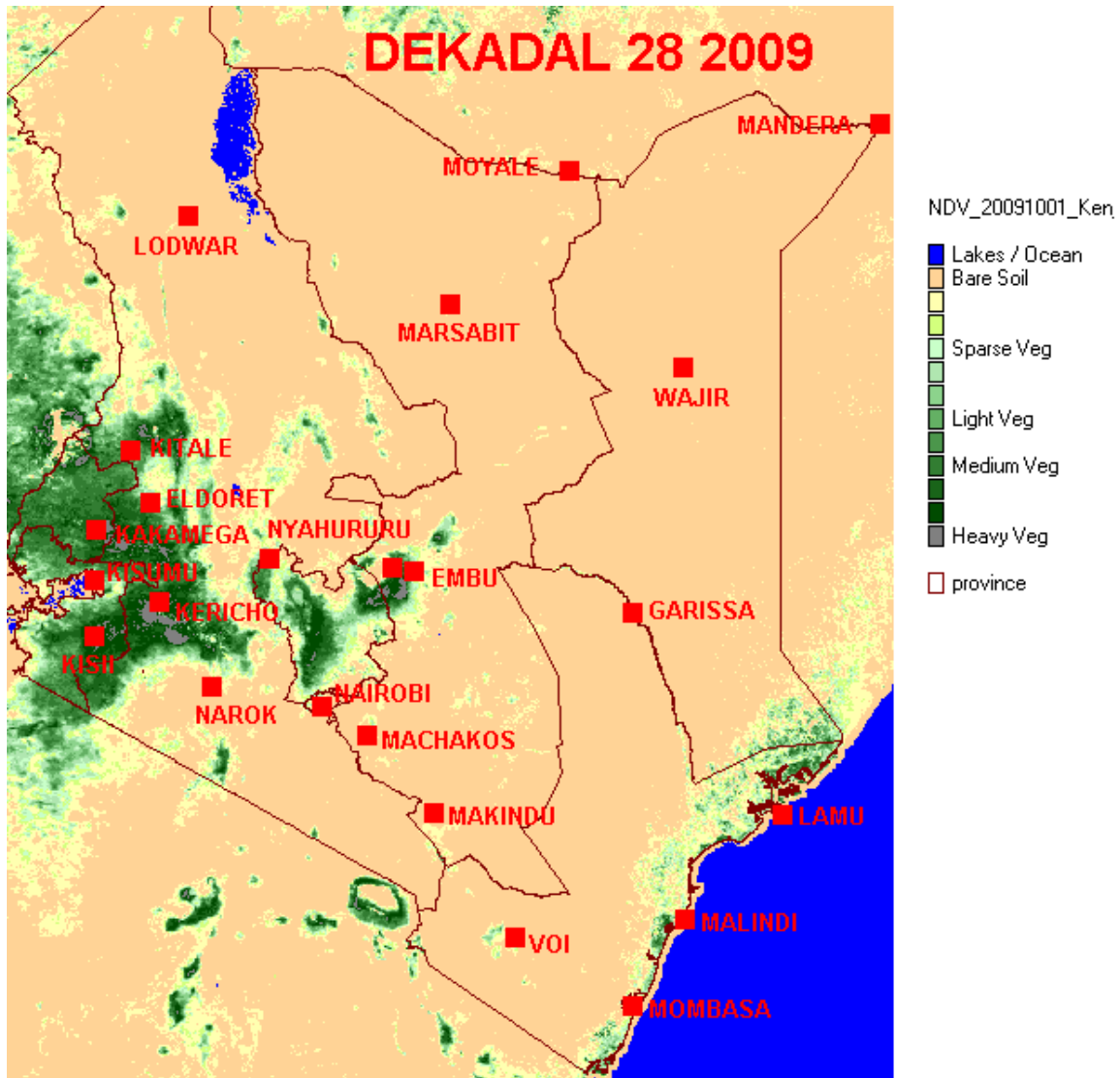


FIG 6: DEKAD 28 Normalized Difference Vegetation Index (1st to 10th October, 2009)



EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS (21st –31st October, 2009)

During the next 10 days (21st –31st October, 2009) the Western regions are expected to experience a reduction of rainfall activities. Crops are expected to continue doing well and correspond to normal growth with normal yields being expected.

Nyanza and Central Rift Valley are expected to experience more rains over several places. In areas around Kisumu, few selected cases of maize have started tasseling while selected cases of beans are being harvested.

Central Highlands, Nairobi area and its environs, are expected to experience a pickup of rainfall during the dekad.

In Eastern Province regions of Embu and Meru districts, bordering Mt Kenya, are expected to experience cool and cloudy mornings with heavy rains over high ground areas.

The Coastal region rainfall activities will continue to several places.

In the pastoral regions and game parks/reserve of Northwestern, Northeastern, Northern Rift Valley, Southern Rift Valley and Southeastern Lowlands, pickup of rains is expected.

This product should be used in conjunction with Kenya Meteorological Department weather forecasts. For more information, Contact

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