

AGROMETEOROLOGICAL BULLETIN KENYA METEOROLOGICAL DEPARTMENT

22nd Dekad, 1st to 10th August, 2009

Issue No. 22/2009, Season: JAS

HIGHLIGHTS

- During the 21st Dekad i.e. 1st 10th August, 2009, light to moderate was received over the Western, Nyanza and parts Central Rift Valley with Kakamega, Kisii, Kisumu, Kericho, Kitale, Eldoret Airport and Nakuru recording 39.2, 49.5, 2.2, 16.0, 14.2, 52.1, and 12.5mm respectively. The Coastal regions experienced light to moderate rainfall with Mombasa, Mtwapa, Mshabaha, Malindi and Lamu recording Dekadal rainfall totals of 11.6, 18.2, 13.4, 8.8 and 12.3mm respectively. Central Province, Nairobi area and its environs experienced cloudy mornings with light rains/drizzle over the high ground areas. The rest of the Country experienced mainly dry and sunny conditions during the Dekad (Fig 1)
- Day time temperatures were relatively lower 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, Embu, Thika, Dagoretti, Makindu and Mombasa recording a Dekadal Mean day Maximum of 27.6, 31.3, 26.6, 23.6, 25.6, 21.4, 22.4,24.8 21.2, 27.3 and 28.7 deg. Celsius respectively. The rest of the country experienced warm conditions with Lodwar, Mandera, Wajir and , Garissa, recording a Dekadal Mean day Maximum of 34.8, 34.3, 33.6 and 33.7 deg. Celsius respectively. (Fig 2)
- Night temperatures were relatively lower over Western and Central Rift Valley, Central Highlands, Nairobi area and its environs due to reduced cloud cover during the Dekad with Nyahururu, Narok, Eldoret Airport, Nakuru, Nyeri, Embu, Thika, Kabete and Dagoretti recording a Dekadal mean minimum of 6.5, 10.1, 9.4, 12.7, 12.5, 13.8, 12.5, 11.9 and 11.4 deg Celsius respectively. (Figs 1, 2)

- The pastoral regions and game parks of Southern Rift Valley, North Eastern, South Eastern Lowlands and the Coastal regions, experienced mainly sunny conditions during the Dekad. Pastures and animal's health conditions remains generally poor. Death of livestock and wildlife especially the browsers is on the increase due to inadequate water and pastures (Figs. 1-5)
- Famine and hunger and the associated impacts are being experienced in many parts of the Country especially in North Western and Northern Districts, Eastern, Central, Coast, Northeastern, Nyanza and parts of Northern and Southern Rift Valley provinces due inadequate rainfall during the last season.

CROP AND WEATHER REVIEW (1st to 10th August, 2009)

Central Province and Nairobi Area:

Cool and cloudy mornings with light rains/ drizzle over high ground areas was experienced in Central province, Nairobi area and its environs during the Dekad. The maize crop is at flowering stage and performing poorly due to inadequate rainfall with below normal yields being expected. Harvesting of the bean crop is complete with below normal yields being reported. (Fig1&2).

Eastern Province:

Cool and cloudy mornings with light rains/ drizzle over high ground areas, was experienced over most places bordering Mt. Kenya (Embu, Runyenjes, Chogoria, Chuka and Meru) during the Dekad. The maize crop is at flowering stage and performing poorly due to inadequate rainfall. Harvesting of the bean crop is complete in most areas with below normal yields being reported. in the low lying areas of Embu, Meru, and Mbeere Districts the maize crop has dried up due to insufficient rainfall. (Fig1&2)

In the Southern Lowlands of the Eastern Province (Machakos, Makueni, Mwingi and Kitui districts), sunny conditions was experienced over most places during the Dekad. Both maize and beans crops are wilting or have dried up due in most areas due to lack of rainfall resulting in a total season crop failure. (Fig1&2).

Coast Province:

Light to moderate rainfall was experienced over several places during the Dekad (Lamu, Malindi, Kwale and Voi). At Lamu, the maize crop is at flowering stages and is doing well with normal yields being expected. For areas around Mshabaha the maize crop is at the harvesting stage with below normal yields being reported due to poor farming practices. (Figs.1-3)

North Eastern Province:

Sunny and dry conditions were experienced in the region (Mandera, Moyale, Wajir and Garissa) during the Dekad. Pastures and drinking water for both human and animal (livestock and wildlife) were scarce, while the animal's health conditions remained generally poor. Death of livestock and wildlife is on the rise as current drought conditions continues to bite. (Figs.1, 2, 3, 4 & 5).

Famine/hunger is still being experienced in most places in the region and malnutrition levels are expected to be on rise.

Western Province:

Light to moderate rainfall were experienced over over few 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. Harvesting of the bean crop is complete with normal yields being reported. (Figs.1-3).

Nyanza and Central Rift Valley:

Light to moderate rainfall were experienced over few places in this regions (Kisumu, Nyamira, Kisii, Eldoret, Kitale, Kericho) during the Dekad. In areas around Kisumu maize and sorghum crops harvesting is on going with below normal yields being reported. (Figs.1-3).

In areas around Eldoret Kapsoya and Kitale the maize and bean crop are at the flowering stages and are wilting due to insufficient rainfall, with poor yields being expected. Harvesting of the bean crop is complete with reports of poor yields.

In areas around Kisii maize crop harvesting has started with normal yields being reported. A few farmers have started land preparation in readiness for the next season. (Figs.1-3).

Northern and Southern Rift Valley:

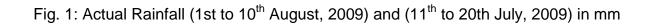
Northerwestern Rift Valley (Lodwar, Lokitang) experienced generally sunny and dry conditions during the Dekad. This has resulted in inadequate pastures and water sources for livestock, wildlife and human use leading to death of livestock and wildlife. (Figs.1-4).

Famine/hunger and its related impacts is still being experienced and malnutrition levels are still high and on the rise.

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 animals` health (both livestock and game).

Pastolarists have driven their livestock into the National parks /game reserves posing unfair competetation to the only available pastures and water for the wildlife. Death of livestock and wildlife is on the rise as current drought conditions continues to bite. (Figs.1, 2, 3, 4 & 5).

For the farming community, wheat and maize crops are experienced water stress and have wilted due to lack of rainfall, with poor or no yields being expected. Famine/hunger and its related impacts is being experienced and malnutrition levels are still high and on the rise.



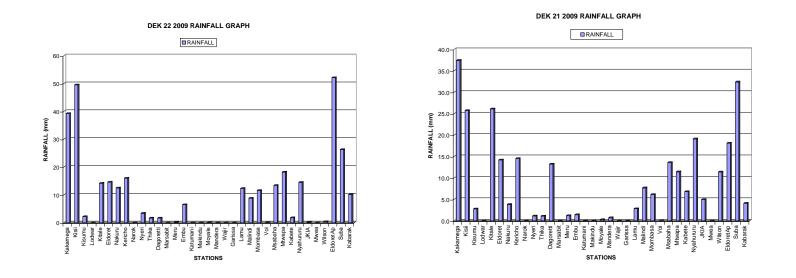
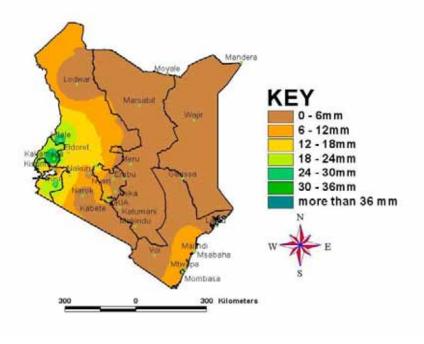
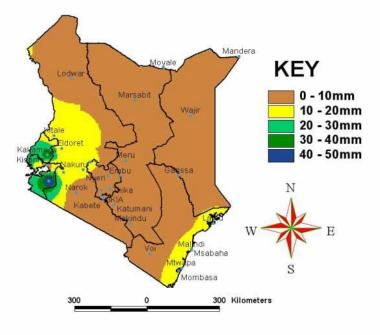


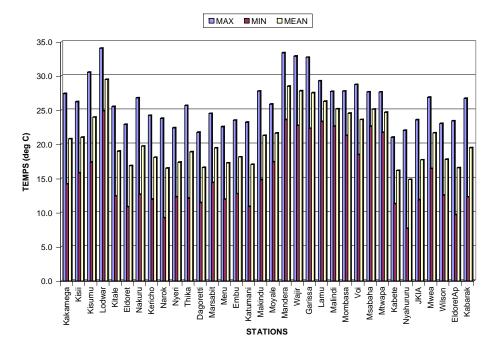
Fig. 1: Actual Rainfall (1st to 10th August, 2009) and (21st to 31st August, 2009) in mm

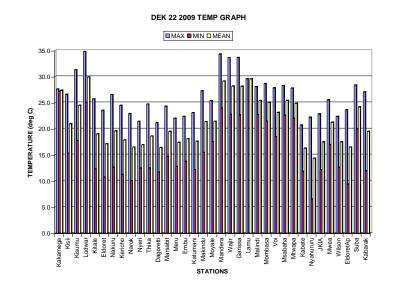




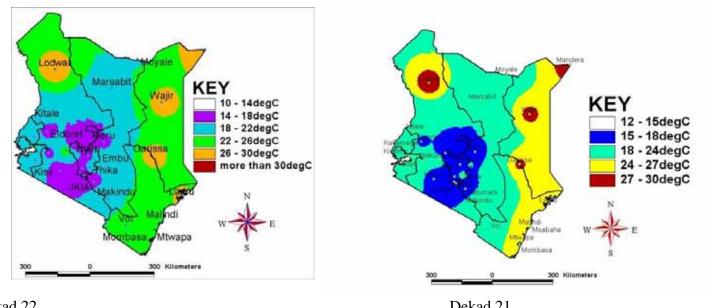
Figs. 2: Dekads 20 and 21, 2009 rainfall distribution.

DEK 21 2009 TEMPS GRAPH





Figs 3: Mean Temperatures (21st to 31st July, 2009) AND (1st to 10th August, 2009) deg. Celsius



Dekad 22

Dekad 21

Figs. 4:Dekads 22 and 21, 2009 mean temperatures distribution

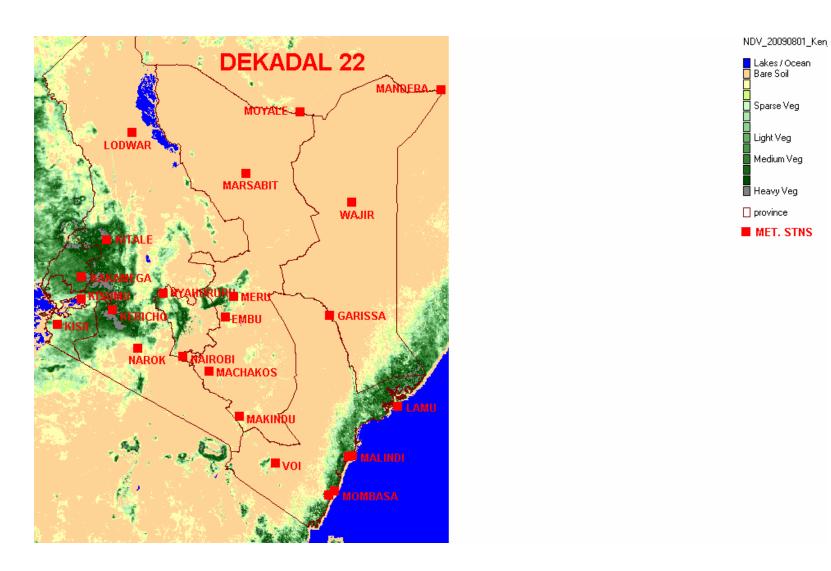


FIG 5: DEKAD 20 Normalized Difference Vegetation Index (21st to 31st July, 2009)

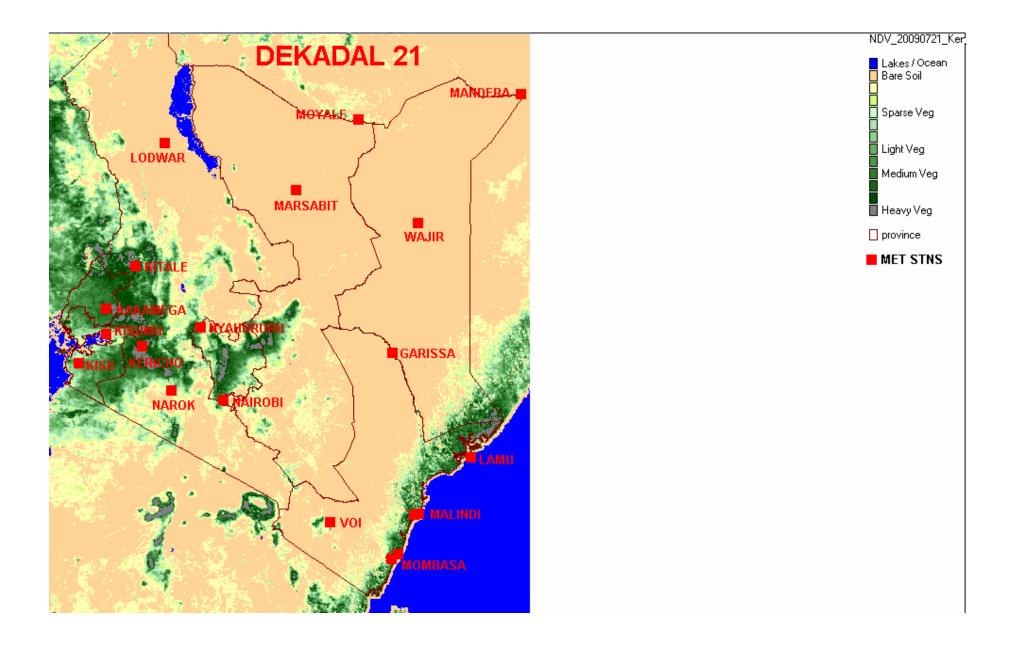


FIG 6: DEKAD 20 Normalized Difference Vegetation Index (21st to 31st July, 2009)

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS (11th –20th August, 2009).

During the next 10 days (11th –20th August, 2009) the Western regions are expected to experience light to moderate rainfall over few places. 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 light rains over few places, poor crops performance are expected due to reduced rainfall with below normal yields being expected in most areas around Kitale and Eldoret. In areas around Kisumu, harvesting of maize and sorghum is expected to be completed with below normal yields being reported.

Central Highlands, Nairobi area and its environs, are expected to experience light rains over few places, with cold and cloudy mornings with light rains/ drizzle over high ground areas. Harvesting of the maize is expected to commence with poor yields being expected.

In Eastern Province regions of Embu and Meru districts, bordering Mt Kenya, are expected to experience cool and cloudy mornings with light rains/ drizzle over high ground areas. Harvesting of the beans is expected to complete with normal yields being expected.

In South-Eastern lowlands, generally sunny conditions are expected. Most crops have withered with no yields expected.

The Coastal region is expected to experience light rainfall. Harvesting of the maize is expected to continue with normal yields being expected.

In the Northern and Southern Rift Valley, Northeastern, parts Eastern Provinces of Kenya, hot and dry conditions are expected. Famine/hunger and the related impacts are expected to be on the rise due to inadequate rainfall during the last season. Death of livestock is expected to be on the rise due to lack of pastures and water both for human and animal use. Food relief efforts are expected in the region to avert loss of human lives due to hunger.

In the pastoral regions and game parks/reserve of Northwestern, Northeastern, Northern Rift Valley, Southern Rift Valley and Southeastern Lowlands, sunny and dry conditions are expected to prevail. Poor pastures and inadequate water sources for human and animal/wildlife use are expected. Poor animals` health both (livestock and game) are expected. Pastoralist may be forced to migration in search of pastures and water for their livestock and this normally results in armed human to human conflicts over these rare recourses.

In summary, poor maize crop performance is expected in most maize growing areas in the country, due to inadequate rainfall. The pastoral regions and game parks/reserves poor pastures and water sources are expected. Hunger/famine is expected to worsen due to the current drought facing the country.

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

The Kenya Meteorological Department Agrometeorological Division Dagoretti Corner, Ngong Road, P.O. Box 30259, 00100 GPO, Nairobi Tel: +254 (0)20 3867880-7/3876957/3873682 Fax: +254 (0)20 3876955 E-mail: agromet@meteo.go.ke Website: www.meteo.go.ke

©2009 The Kenya Meteorological Department