



**NIGERIAN METEOROLOGICAL AGENCY**  
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**SUMMARY**

Deficit rainfall anomalies were recorded in most parts of the south with few areas having surpluses (Eket and Ikom) during the period under review. Light to moderate rains with thunderstorms fell across the south and some parts of the north central. The highest rainfall amount of 74.7mm was recorded in Ikom followed by Owerri with 56.2mm. Colder than normal temperatures were experienced in and around Ondo, Akure, Eket and Calabar while warmer than normal were experienced along the extreme north (Yelwa, Sokoto, Gusau, Katsina, Kano, Nguru, Maiduguri and Yola). Deficit soil moisture conditions were observed in most parts of the country except in areas in and around Calabar, Eket and Ikom which had surpluses. Temperatures below 32 deg C were recorded only in and around Eket and Calabar while the rest of the country had above 32 Deg C. However temperatures of above 40 Deg C were reported at Yelwa, Katsina, Kano, Nguru, Maiduguri and Yola. With appreciable rainfall in most parts of the south, some farmers have continued to clear their farmlands for seed bed preparations while others began planting. Harvest of early maize and leafy vegetables planted earlier on irrigated farms across the country is in progress. Farmers in the central and northern parts of the country are advised to consider the 2011 NIMET's Seasonal Rainfall Prediction (SRP) for planting dates. However, the farmers in the northern parts are still required to continue to irrigate their farm land pending the time of rainfed cropping season.

**1.0 RAINFALL TREND**

**1.1 Rainfall Anomaly**

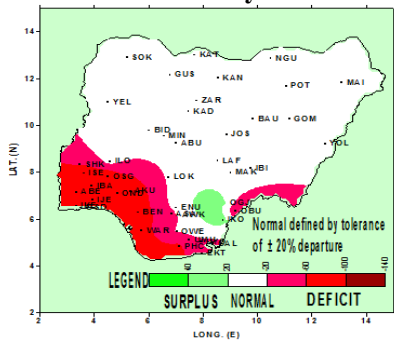


FIG. 1: 2nd DEKAD OF APRIL 2011 RAINFALL ANOMALIES (%) OVER THE COUNTRY. ANOMALIES ARE COMPUTED WITH RESPECT TO THE 1971 - 2000 BASE PERIOD DECADEAL MEANS.

Fig 1 above shows the rainfall anomaly during the dekad and indicates that most parts of the south (red areas) had deficit rainfall anomalies while few areas (Ikom and Eket) recorded surpluses. Greater parts of the country (in white) remained normal.

**1.2 Rainfall Amounts**

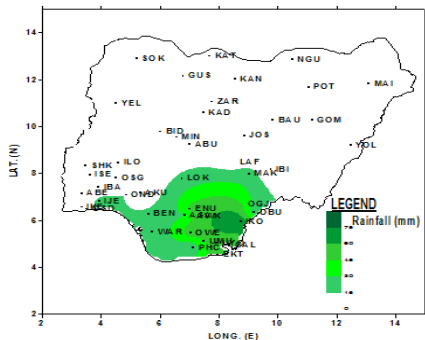


FIG. 2: ACTUAL RAINFALL AMOUNT FOR DEKAD 2, APRIL 2011

Fig 2 shows that most parts of the southeast, Lagos and parts of the north central in green received light to moderate rains while most parts of the southwest and the northern parts of the country (in white) had below 10mm of rainfall. Farmers especially those in the north are advised to continue to irrigate their crops as rains are still inadequate.

**1.3 COMPARISON OF NORMAL WITH ACTUAL RAINFALL FOR THE DEKAD**

The comparison of the actual rainfall amount with normal rainfall values in some selected stations across the south is shown in Fig 3 below and reveals that most stations just like the preceding dekad received rainfall amounts below the normal. This is not favourable for field crops that require good rains.

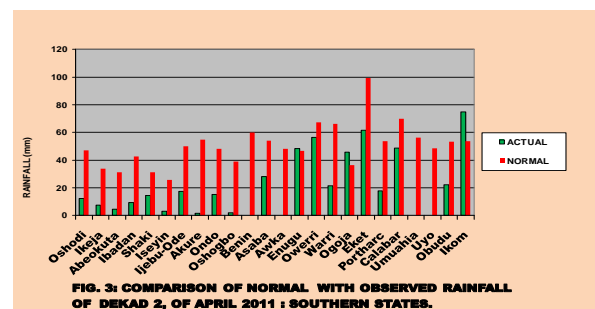


FIG. 3: COMPARISON OF NORMAL WITH OBSERVED RAINFALL OF DEKAD 2, OF APRIL 2011 : SOUTHERN STATES.

**1.4 Number of Rain Days**

Fig 4 shows the number of rain days across the country and indicates that most stations in the south

had 1- 4 raindays while the greater parts of the country in white had zero to 1 rainday.

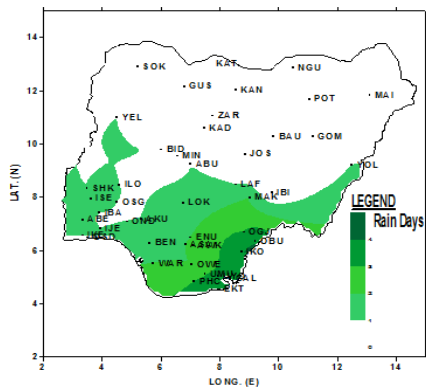


FIG. 4: ACTUAL NUMBER OF RAIN DAYS FOR DEKAD 2, APRIL 2011

## 2.0 SOIL MOISTURE CONDITION

The decadal distribution of soil moisture across the country is shown in *Fig 5* and reveals that most parts of the country had deficit soil moisture condition. Surpluses however were recorded only in parts of Eket, Calabar and Ikom. The dekad witnessed below normal rainfall which impacted negatively to field crops in the southwest. Farmers in the southern parts of the Niger delta and the coastal areas are advised to commence planting while the other parts of the south should commence bush clearing and seed bed preparation.

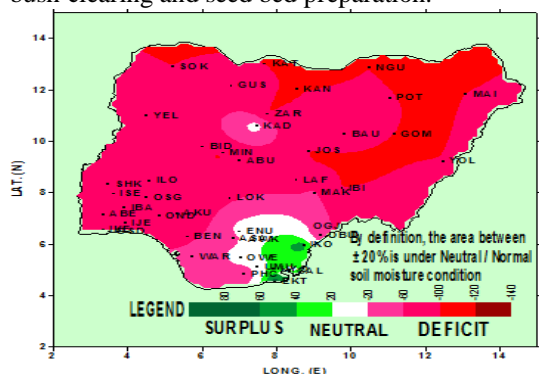


FIG. 5: 2nd DEKAD OF APRIL 2010 SOIL MOISTURE INDICES (%) OVER THE COUNTRY.

## 3.0 MAXIMUM TEMPERATURE TREND

### 3.1 Maximum Temperature Anomaly

Fig 6 shows the trend of maximum temperature anomaly over the country and indicates that colder than normal temperatures were recorded in and around Ondo, Akure, Eket and Calabar while warmer than normal temperatures were experienced along the extreme north (Yelwa, Sokoto, Gusau, Katsina, Kano, Nguru, Maiduguri and Yola). The white areas were normal with no significant change when compared with the normal temperatures.

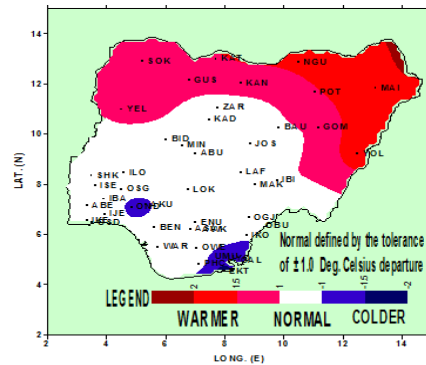


FIG. 6: 2nd DEKAD OF APRIL 2010 MEAN MAXIMUM TEMPERATURE ANOMALIES (Deg. C) OVER THE COUNTRY. ANOMALIES ARE COMPUTED WITH RESPECT TO THE 1971 - 2000 BASE PERIOD DECADEAL MEANS.

## 3.2 Maximum Temperature Values

*Fig 7* below shows the actual mean maximum temperature distribution and reveals that only parts of Eket and Calabar recorded less than **32 Deg C** while other parts of the country had above **32 Deg C**. However, temperatures of above **40 Deg C** were recorded at Yelwa, Katsina, Kano, Nguru, Maiduguri and Yola. Irrigated field crops in these areas would demand more water due to increased rate of evapotranspiration. Farmers are advised to make water available to both crops and livestock to achieve good results.

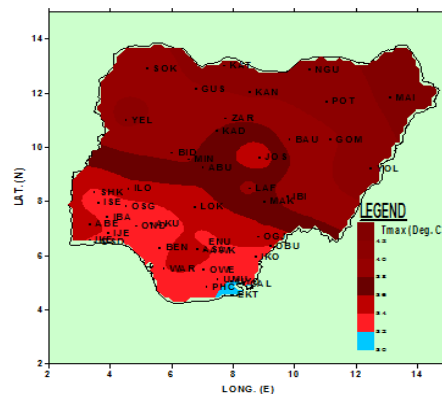


FIG. 7: MEAN MAXIMUM TEMPERATURE (Deg. C) FOR DEKAD 2, APRIL 2011

## 4.0 WEATHER/AGRICULTURAL OUTLOOK FOR DEKAD 3 (21 TO 30), OF APRIL 2011

### 4.1 Weather Outlook

The Inter Tropical Discontinuity (ITD)'s position is expected to move northward, oscillating between Latitude **12.0 deg. north and 13.5 deg. north** during the dekad. More inflow of moist south-westerly winds inland and active convective activities along the coast of the country are expected.

The northern part of the country is expected to have partly cloudy weather condition while the central states are will experience cloudy conditions with rains/thunderstorms. The inland

areas of the south are expected to witness cloudy weather and rains, while coastal areas are will experience cloudy weather condition with occasional localized rains and thunderstorms.

Maximum temperatures for North and Central States are expected to range between **39 and 42 Deg C** while minimum temperatures will range between **25 and 30 Deg C**. Jos minimum temperatures are expected to range between **16 and 19 Deg C**.

Maximum temperatures for Inland and Coastal areas of the south are expected to range between **33 and 35 Deg C**, while minimum temperatures are expected to be between **24 and 27 Deg C** during the period.

#### 4.2 Agricultural Summary

As a result of the light to moderate rains recorded in most parts of the south during the dekad, planting of the staple food crops has commenced in some parts of the south. Harvest of early maize and leafy vegetables planted earlier on irrigated farms across the country is in progress

In the north, farmers are advised to continue to irrigate their farm crops while the central areas are requested to engage in clearing of farm lands and commence planting as advised in the 2011 NIMET's Seasonal Rainfall Prediction (SRP).

**TABLE OF AGROMETEOROLOGICAL DATA FOR THE DEKAD**

STATIONS	TOTAL RAINFAL (mm)	TOTAL RAIN DAYS	EVAPOTRANSPIRATION (mm)	MEAN MAXIMUM TEMP (°C)	MEAN MINIMUM TEMP (°C)	DEGREE DAYS (MAIZE)	MEAN RADIATION (MJ/m <sup>2</sup> /day)
ABEOKUTA	4.3	1	52.3	35.1	23.9	215	21
ABUJA	4.2	1	54.6	36.4	24.5	224	21.5
AKURE	1.5	1	45.7	32.3	23.2	197	18.9
ASABA	28.1	2	52.7	35.7	24.8	222	20.9
AWKA	20.3	2	47.9	34.4	24.8	216	19.1
BAUCHI	4.5	1	60.3	38.9	24.8	238	23.3
BENIN	-	-	-	-	-	-	-
BIDA	4.6	1	56.3	38.4	26.6	245	21.5
CALABAR	48.5	3	42.4	32.1	24.4	202	17.4
EKET	61.5	4	35.8	30.5	24.9	197	14.8
ENUGU	48.3	2	48.3	33.4	23.6	205	19.7
GOMBE	0	0	60.9	39.5	25.6	245	23.2
GUSAU	-	-	-	-	-	-	-
IBADAN	9.2	1	48.1	33.3	23.5	203	19.7
IJEBU	17.2	1	48.2	33.8	24.2	210	19.5
IKEJA	7.4	2	45.9	33.9	25.3	216	18.4
IKOM	74.7	4	49.8	33.0	22.2	195	20.7
ILORIN	3.2	1	53.1	35.4	24.0	216	21.2
ISEYIN	2.9	2	48.3	33.0	23.0	200	19.9
JOS	0	0	57.1	34.0	19.1	185	24.1
KADUNA	-	-	-	-	-	-	-
KANO	0	0	65.9	40.4	23.6	239	25.4
KATSINA	0	0	69.5	40.8	21.3	230	27.2
LAFIA	2.8	1	56.8	39.0	27.2	250	21.5
LOKOJA	-	-	-	-	-	-	-
MAIDUGURI	0	0	68.2	42.3	25.4	258	25.5
MAKURDI	23.4	2	51.8	36.0	25.4	227	20.3
MINNA	0	0	59.2	38.4	24.9	236	22.9
NGURU	0	0	65.8	41.2	24.9	250	24.9
OGOJA	45.6	3	55.1	35.7	23.4	215	22.1
ONDO	15	1	44.4	32.6	24.1	203	18.2
OSHODI	12.2	2	42.1	33.4	26.2	217	16.8
OSOGBO	1.8	1	49.1	33.4	23.0	202	20.2
OWERRI	56.2	2	48.2	33.3	23.5	203	19.7
PHC	17.8	3	48.6	33.6	23.7	206	19.8
POTISKUM	-	-	-	-	-	-	-
SHAKI	14.6	1	51.6	33.7	22.2	199	21.2
SOKOTO	0	0	60.8	39.3	24.9	240	23.4
UMUAHIA	-	-	-	-	-	-	-
UYO	-	-	-	-	-	-	-
WARRI	21.5	2	46.8	34.0	25.1	215	18.8
YELWA	11.2	1	60.2	40.5	27.4	259	22.5
YOLA	0.3	1	62.1	41.8	28.6	272	22.7
ZARIA	0	0	61.9	38.4	23.2	228	24.3
OBUDU	22.1	4	50.2	33.9	23.3	206	20.4
IBI	0	0	60.9	39.2	25.4	243	23.3

Dear All,

Comments and suggestions on how to improve this publication are welcome. Agrometeorologists, Agriculturists, Extension Workers, Research Officers, Users and the General Public should kindly send feedback to:

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