

# NIGERIAN METEOROLOGICAL AGENCY 33 POPE JOHN PAUL II STREET, MAITAMA DISTRICT, P.M.B. 615, GARKI, ABUJA, NIGERIA

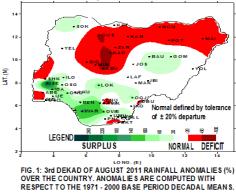
# Agrometeorological Bulletin No.24, Dekad 3, August (21 – 31) 2011

# **SUMMARY**

During the period under review, light to moderate rains fell across the country with the recovery of rains in parts of the southwest after the little dry season. Most parts of the country received rainfall above 40mm except parts of the southwest and few parts of the north which had lower. The highest amounts of rainfall were received in Warri, Owerri, Calabar and Asaba with 346.8mm, 306.5mm, 247.9mm and 231.5mm respectively. Deficit rainfall anomaly was recorded in parts of the north central, northeast and few pockets around the south. Most parts of the country had temperatures below 32degree Celsius except parts of Sokoto and Maiduguri which had higher. Areas in and around Shaki, Iseyin, Jos and Eket were colder than normal while the extreme north remained warmer. Planting of maize and other crops for the second cropping season has begun in parts of the south west as more rains are expected while cereal crops such as millet, maize and sorghum continued to mature in the northern part of the country.

# 1.0 RAINFALL TREND

### 1.1 Rainfall Anomaly



The rainfall anomaly over the country is shown in *Fig 1* above and indicates that most parts of the country had surplus to normal rainfall anomalies while parts of the north central and northeast had deficits. Most parts of the south recorded surplus rainfall anomalies.

#### **1.2 Rainfall Amounts**

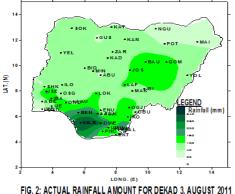
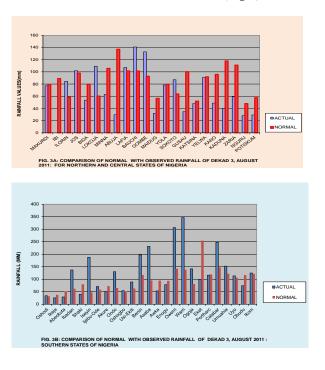


Fig 2 shows the actual rainfall received across the country and indicates that most parts of the country

received over 40mm of rainfall except parts of the southwest and few parts of the north which had lower. However, most areas in parts of the southeast and north central had heavy falls which resulted to flooding and erosion.

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

*Figs 3A & 3B* below show the comparison of the actual rainfall amounts with normal values in most stations across the south and the north of the country respectively. *Fig 3A* shows that Bauchi, Gombe, Ilorin, Lokoja, Lafia, Jos and Sokoto recorded rainfall above normal others were below normal while most stations in the south were above to near normal(*Fig 3*).



#### 1.4 Number of Rain Days

*Fig 4* shows the number of rain days across the country and most parts of the country had at least 4 days of rains except the extreme north and some parts of the southwest which had less than 4 days of rains. Warri, Asaba, Calabar and Eket had the highest number of rain days ranging from 10 to 11 days which resulted to flooding of farmland, hence good drainage system required.

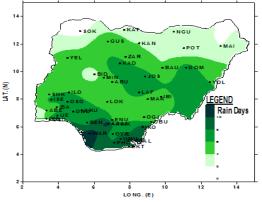
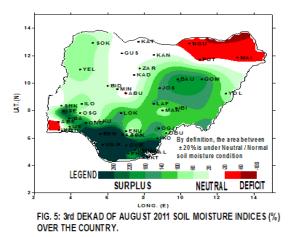


FIG. 4: A CTUAL NUMBER OF RAIN DAY \$ FOR DEKAD 3, AUGUST 2011

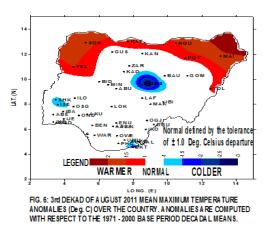
#### 2.0 SOIL MOISTURE CONDITION



*Fig* **5** above shows the decadal distribution of soil moisture across the country and indicates that most parts of the country had surplus to neutral soil moisture conditions while the north eastern fringe of the country and some parts of south west recorded deficits. The soil moisture across the country generally supported crop growth and development and aided the harvesting of root crops and management of pastureland.

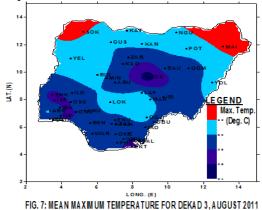
#### **3.0 MAXIMUM TEMPERATURE TREND 3.1 Maximum Temperature Anomaly**

The trend of maximum temperature anomaly is shown in *Fig*  $\boldsymbol{6}$  and indicates that most parts of the country were normal. However, the extreme north (Yelwa, Sokoto, Katsina, Nguru, Potiskum, Maiduguri and Yola) had warmer than normal temperatures while areas in and around Jos, Shaki, Iseyin, Eket and Calabar were colder.



#### 3.2 Maximum Temperature Values

*Fig* 7 below shows the actual mean maximum temperature distribution and indicates that most stations across the country recorded temperatures below *32 Deg C* except Sokoto, Maiduguri and environs which had temperatures above *32 Deg C*. Generally temperatures favoured crop development and growth and as well as livestock performance.



#### 4.0 WEATHER/AGRICULTURAL OUTLOOK FOR DEKAD 1 (1 TO 10), OF SEPTEMBER 2011 4.1 Weather Outlook

The Inter Tropical Discontinuity (ITD) is expected to start its southward movement, oscillating between Latitude *18.5 deg. and 20.5 deg. North*.

With these synoptic systems the north and central states are expected to experience cloudy weather conditions with localized thunderstorm activities.

The Inland and coastal areas of the country are expected to be cloudy with widespread rain showers

Maximum temperatures for the north and central states are expected to range between  $27^{0}C$  and  $33^{0}C$  while the minimum temperatures will be between  $21^{0}C$  and  $24^{0}C$ . Maximum temperatures for inland and coastal areas are

NIGERIAN METEOROLOGICAL AGENCY (NIMET) AGROMETEOROLOGICAL BULLETIN NO. 24, DEKAD 3, AUGUST (21-31) 2011 Page 2 expected to range between  $25^{\circ}C$  and  $27^{\circ}C$  while the minimum temperatures will be from  $21^{\circ}C$  to  $24^{\circ}C$ .

### 4.2 Agricultural Activity/Outlook

Harvesting of **staple food crops and fruity vegetables** continued to dominate farming activities in most parts of the south and the middle belt while weeding and

other farming operations were confined to the northern states. It is expected that in parts of the south and the middle belt, harvest of **maize**, **cassava**, **vegetables and new yam** will continue.

In the north, more rains are expected with the maturing of cereal crops such as millet, sorghum and maize.

		RAI						LAFIA	107.3	7	42.9	30.5	23.4	208.8	16.3
STATIO	RAIN FALL	ND AY	PET	TMA X	TMIN	DD	RAD( MJ/m	LOKOJ A	109.3	5	41.6	30.6	23.7	210.7	15.7
N	(mm)	(no.)	(mm)	(oC)	(oC)	(no.)	2/day)	MAIDU	32.1	2	49.3	32.3	23.1	216.6	18.5
ABEOK	29.1	4	44.9	30.2	22.4	201.1	17.3	MAKUR DI	77.1	5	44.6	30.2	22.3	200.8	17.2
ABUJA	29.7	5	43.1	29.1	21.6	191	16.9	MINNA	63	5	46.8	29.8	20.9	190.7	18.4
AKURE	51.4	7	38.7	29.1	21.7	187	15.8	NGURU	28.3	4	46.3	31.6	23.2	213.6	17.5
ASABA	231.5	11	42.5	30.0	23.1	204.2	16.3	OGOJA	141.6	4	46.2	30.8	22.6	205.4	17.7
AWKA	53.4	7	38.7	29.1	23.1	199.1	14.9	ONDO	130.1	7	37.5	28.0	22.3	188.2	14.8
BAUCHI	140.8	4	43.3	28.9	21.1	187.4	17.1	ONDO	130.1	1	37.5	28.0	22.3	188.2	14.8
BENIN	197.4	7	39.1	28.5	22.5	192.4	15.3		33.8	8	35.3	28.8	24.0	202.1	13.6
BIDA	53.6	3	44.5	30.8	23.2	208.8	17	OSOGB O	54	7	39.4	28.0	21.6	184.8	15.6
CALAB AR	247.9	10	34.1	28.1	23.5	195.8	13.3	OWERR I	306.5	7	40	28.7	22.3	192.8	15.6
EKET	99.7	10	26.6	26.7	23.8	190	10.4	PHC	116.3	8	39.4	29.1	23.1	198.7	15.2
ENUGU	78.6	6	43.1	29.5	22.2	196.3	16.8	POT	29.4	2	47.8	31.3	22.4	207.5	18.2
GOMBE	132.8	7	42.6	28.2	20.5	180	17	SHAKI	39.7	5	39.9	27.5	20.8	177.8	16
GUSAU	34.8	6	44.7	30.1	21.9	198.3	17.3	SOKOT O	87.1	1	49.1	32.2	22.9	214.7	18.5
IBADAN	137.1	5	39.2	28.2	21.9	187.1	15.5	UMUAH IA	152.5	9	41.5	29.3	22.6	197.8	16.1
IJEBU	70.9	7	36.4	28.0	22.6	190.4	14.3	UYO	113.4	8	33.3	27.7	23.3	192.1	13
IKEJA	25.5	4	39.3	29.4	23.4	202.7	15.1	WARRI	346.8	11	37.1	29.0	23.7	201.7	14.3
ІКОМ	124.8	9	40.9	29.3	22.7	198	15.8	YELWA	90.9	5	46.6	31.7	23.6	216.3	17.5
ILORIN	84.6	6	42.7	29.0	21.6	190.1	16.8	YOLA	78.5	6	44.6	31.0	23.5	212.1	16.9
ISEYIN	188	7	45.5	27.4	20.8	207.8	17.4	ZARIA	59.2	4	45.8	29.2	20.5	185.2	18.1
JOS	102	7	41.2	24.6	16.2	136.2	17.8	OBUDU	74	6	41	-			
KADUN A	40	8	46.7	29.4	20.4	186.2	18.5	IBI	/4	Ö	41	28.8	22.0	191.4	16.1
KANO	48.8	4	46.5	30.5	21.7	199.3	18	USI-							
KATSIN A	48.2	3	52.2	31.7	20.6	199.9	20.2	EKITI	89.1	9					

### TABLE OF AGROMETEOROLOGICAL DATA FOR THE DEKAD

# 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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