

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

# Agrometeorological Bulletin No.17, Dekad 2, June (11 – 20) 2011

## **SUMMARY**

During the period under review, surplus/positive rainfall anomalies were recorded mostly across the extreme north and some parts of the south while parts of the north central and few areas in the south had deficit. The country recorded light to moderate rains while most areas such as Lagos, Benin, Awka and Uyo had high intensity falls which resulted in flooding and erosion. Most parts of the south and some parts of the north central had surplus soil moisture conditions while the northeast had deficit. Warmer than normal temperatures continued to be experienced along the extreme north (Sokoto, Katsina, Kano, Nguru, Potiskum, Maiduguri and Yola) while Jos and Eket remained colder. Temperatures below 32 Deg C were recorded in most parts of the south and north central while the extreme north remained predominantly above 32 Deg C. However no part of the country recorded temperatures above 38Deg C as the temperatures have continued to be lowered by the increasing rain in the north.

# 1.0 RAINFALL TREND



*Fig 1* above shows the rainfall anomaly during the dekad and indicates that surplus rainfall anomalies were recorded along the extreme north and few areas of the southeast while parts of the north central and some parts of the south had deficit. Other areas remained normal.

#### 1.2 Rainfall Amounts



The rainfall received across the country is shown in *fig* 2 and reveals that all parts of the country received over 20mm of rains except areas in and around Nguru, Bauchi and Yola. In Lagos and some parts of the south,

heavy rain and thunderstorm caused flooding of roads and farmlands while some buildings were destroyed by the heavy downpour.



PLATE 1. A boy wadding through a flooded road in Isolo area of Lagos

#### 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 and north is shown in *Figs 3A & B* below. Fig 3A shows that most stations in the north had below normal rainfall while fig 3B shows below to near normal rainfall in most stations in the south.





#### 1.4 Number of Rain Days

The number of rain days across the country is shown in Fig 4 and reveals that most stations in the north had 2 or more days of rainfall while the south had 4 and above. Generally rainfall distribution was favourable for optimal crop development.



### FIG. 4: A CTUAL NUMBER OF RAIN DAYS FOR DEKAD 2, JUNE 2011

#### 2.0 SOIL MOISTURE CONDITION

The decadal distribution of soil moisture across the country is shown in Fig 5 and indicates that most parts of the south and some parts of the north central had surplus soil moisture conditions while the extreme northeast had deficit. Other areas remained normal. Generally there was increased soil moisture for optimum crop development.



**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 warmer than normal temperatures have continued to be experienced along the extreme north (Sokoto, Katsina, Kano, Bauchi, Nguru, Potiskum, Maiduguri and Yola) while areas in and around Jos and Eket were colder than normal. Elsewhere were normal with no significant change when compared with the normal temperatures.



#### **3.2 Maximum Temperature Values**

The actual mean maximum temperature distribution is shown in *Fig* 7 below and reveals that most parts of the south and the north central recorded temperatures below 32 *Deg* C while the north was predominantly above 32 *Deg* C. With increasing rains across the north, temperatures have continued to drop as no station had temperatures above 38 *Deg* C.



FIG. 7: MEAN MAXIMUM TEMPERATURE FOR DEKAD 2, JUNE 2011

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

#### 4.1 Weather Outlook

The Inter Tropical Discontinuity (ITD) is expected to move further northward with its position, oscillating between Latitude *17.5 deg. north and 18.5 deg. north*. The entire country will be under the influence of southwesterlies and active convective activities.

With these synoptic systems, the extreme Northern parts of the country are expected to experience partly cloudy to cloudy weather conditions and occasional thunderstorms while the central states are expected to

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witness cloudy weather conditions with widespread thunderstorm activities. Meanwhile, the Inland and coastal parts of the country will experience cloudy weather conditions with widespread rain and thunderstorm activities.

Maximum temperatures for Northern and Central states are expected to range from  $32^{\circ}C$  to  $34^{\circ}C$  while the minimum temperatures will range from  $20^{\circ}C$  to  $23^{\circ}C$ . Maximum temperatures for Inland and coastal areas are expected to be between  $31^{\circ}C$  and  $33^{\circ}C$  while the minimum temperatures will range from  $23^{\circ}C$  to  $24^{\circ}C$ .

#### 4.2 Agricultural Activity/outlook

Planting of staple food crops continued in parts of the north central while in the extreme north, clearing of farmlands and planting was in progress.

In parts of the south and north central, harvest of maize continued while vegetables planted on irrigated farms in the north was also in progress

Farmers in the extreme north are advised to prepare their farms for planting of new crops following the increased moisture while harvesting of crops will continue in the southern parts.

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	٨L		ä	No.	M									213.	
	Æ.	7	ISI	M	MC	YS		KATSINA	60.9	2	48.4	35.5	23.3	7	19.5
	Ę.		A D	N C		PA	N S	LATIA	20.0	2	27.2	21.0	24.5	201.	15.2
	R	R	<u>e</u> 1	°C WY	<sup>o</sup> C	ଞ୍ଚ	day	LAFIA	20.9	2	37.5	31.8	24.5	206	15.5
	AL .	SAL	22	ZĂ	ZĂ	IZE R	IA' m <sup>2</sup> /	LOKOJA	41.6	2	41.7	33.1	24.2	200.	17
	E T	IC	<b>A</b>	EM	EA	EG		Bolloni	11.0			55.1	2.1.2	231.	
STATIONS	T ii	D D	A E	ΣΞ	ΣĘ	₫Ś	E 7 5	MAIDUGURI	38.5	2	47.3	36.5	25.7	3	18.4
STATIONS						192.	1							188.	
ABUJA	41.9	5	38.4	31.3	23.3	6	16	MAKURDI	49.3	3	39	31.0	22.6	3	16.4
						186.		MININA	20.2	4	42.1	21.6	21.9	186.	17.7
AKURE	60.3	5	38	30.6	22.7	5	16	MIININA	20.5	4	42.1	51.0	21.0	230	17.7
	00	-		22.4	22.7	200.	140	NGURU	6.1	2	49.3	37.1	25.1	230.	19.2
ASABA	89	5	41.1	32.4	23.7	105	16.9							197.	
AWKA	100.3	5	37.9	31.3	237	195.	15.7	OGOJA	84.2	2	40.9	32.1	23.4	7	16.9
	100.5	5	5117	5115	2017	209.	1017			_				188.	
BAUCHI	16.3	2	45.5	34.3	23.5	1	18.4	ONDO	33.3	5	37	30.5	23.1	2	15.6
						194.		OSHODI	07.4	7	33.1	30.6	24.0	197.	13.7
BENIN	109.9	4	37.7	31.3	23.7	8	15.7	OSHODI	97.4	/	33.1	30.0	24.9	18/	15.7
DID 4			20.6	22.2	24.1	201.	160	OSOGBO	78.6	5	38.6	30.5	22.3	104.	16.3
BIDA	82	3	39.6	32.2	24.1	192	16.3							184.	
CALABAR	185	7	35	29.7	22.9	105.	14.8	OWERRI	66.1	4	35	29.9	23.1	9	14.8
Cillaribilit	100	,	55	27.1	22.7	183.	1110							185.	
EKET	419.7	10	26.9	28.3	24.3	2	11.4	PHC	54.5	6	32.9	29.6	23.5	5	13.9
						186.		DOTICKUM	25.1	4	42.1	24.2	25.1	216.	167
ENUGU	59	4	38.8	30.8	22.6	9	16.3	FOIISKUM	55.1	4	42.1	34.2	23.1	177	10.7
COLOR	27.7		20.0	22.6	22.5	200.	160	SHAKI	76	2	38.2	29.9	21.6	5	16.4
GOMBE	21.1	3	39.9	32.6	23.5	202	16.3							219.	
GUSAU	21.5	3	43.3	33.3	23.3	202.	17.7	SOKOTO	62.7	2	41.7	34.8	25.2	9	16.5
Gebrie	2110	5	1010	55.5	2010	189.	17.17			_				191.	
IBADAN	66.5	5	38.8	31.0	22.8	1	16.3	UMUAHIA	114.7	5	37.2	30.9	23.5	6	15.5
						189.		UVO	251.3	7	30.0	20.1	22.8	184.	13.1
IJEBU ODE	84.4	6	36.8	30.6	23.2	1	15.4	010	251.5	/	30.9	29.1	23.0	197	13.1
IKEJA	94.1	8	XX	30.5	24.1	XX 100	XX	WARRI	80.9	4	37.9	31.6	24.0	7	15.7
IKOM	70.9	6	35.8	30.4	23.5	189.	15							211.	
IKOW	70.9	0	55.8	30.4	23.5	186	15	YELWA	25	2	40.7	33.4	24.8	1	16.4
ILORIN	76.1	4	39	30.8	22.4	1	16.5		• •					217.	
						182.		YOLA	2.8	I	42.2	34.3	25.3	9	16.8
ISEYIN	29.8	4	40.2	30.8	21.8	9	17.1	ZARIA	38	4	41.4	30.9	21.0	1/9.	17.7
						139.		LANIA	50	+	41.4	30.9	21.0	182.	1/./
JOS	52.6	6	37.1	26.5	17.4	6	17.1	OBUDU	34.7	5	35.7	30.9	22.7	1	15.1
KADUNA	11.2		41	20.4	20.7	175.	17.5								
KADUNA	44.3	8	41	30.4	20.7	200	17.6								
KANU	43.4	3	43	34.2	23.0	200.	10.2								

#### 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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