

**Agrometeorological Bulletin No.18, Dekad 3, JUNE (21 –31) 2018**

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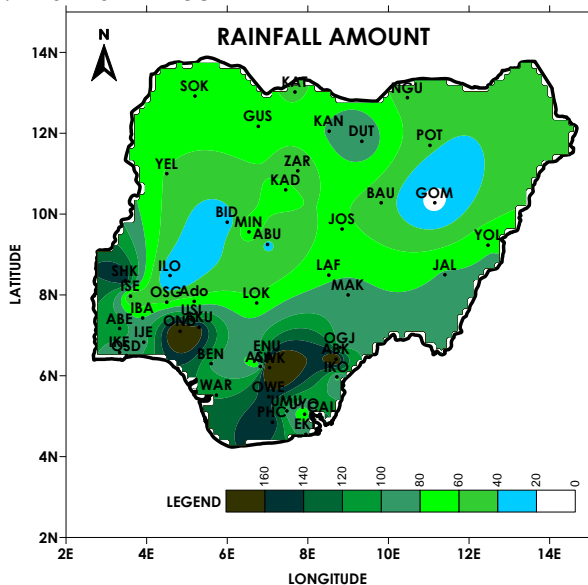
**Summary**

The 3<sup>rd</sup> dekad of agrometeorological bulletin for June, 2018 is presented in this edition. The country recorded low to high rainfall total and distribution when compared with the 2<sup>nd</sup> dekad of June. Above normal rainfall anomalies prevail across most parts of the country except North-east, part of the north central, Ibadan, Iseyin, and Uyo, experienced below normal rainfall anomalies. Highest temperature was recorded at Nguru with (33.8°C). Most parts of the country experienced normal to colder than-normal temperature anomalies no part of the country experienced warmer than normal day-time temperature anomalies. The Inter Tropical Discontinuity (ITD) is expected to move northward to attain a mean position of 16.7°N.

**1.0 Rainfall Pattern**

This section highlights the observed rainfall amount, rain-day, available soil moisture and their departures from 30-year average for the 3<sup>rd</sup> dekad of June, 2018.

**1.1 Rainfall Amount**

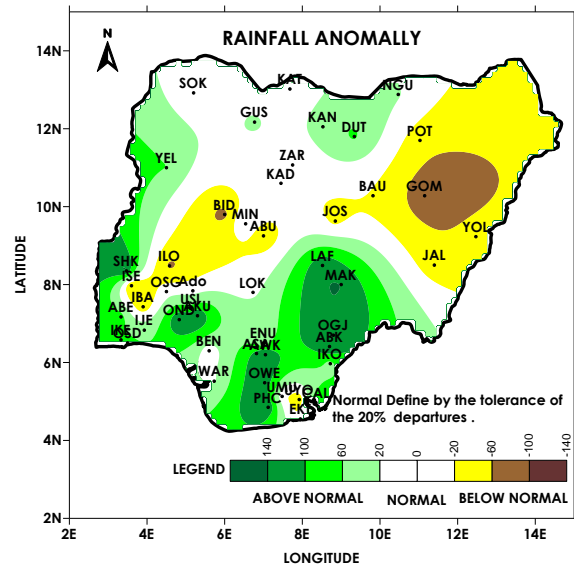


**Figure 1: Rainfall Amount (mm)**

The 3<sup>rd</sup> dekad of June, 2018 rainfall amount is shown in figure 1. The country recorded low to high rainfall total and distribution when compared with the 2<sup>nd</sup> dekad of June. Heavy to moderate rainfall amounts were recorded across some parts of the country and the highest rainfall amount was recorded in Awka (243.4mm), followed by Ondo (213.7mm), Abakaliki (196.3mm) Akure (166.5mm) Port Harcourt(159.4mm), Enugu(130.2mm) and Shaki (158.5mm) respectively.

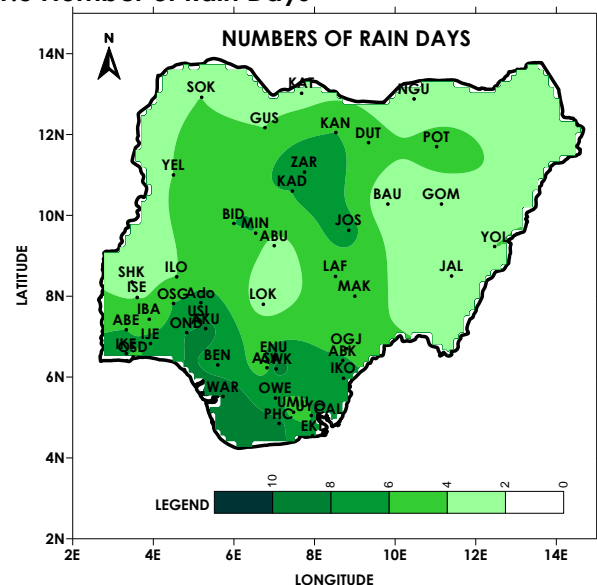
**1.2 Rainfall Departure.**

The rainfall departure for the 3<sup>rd</sup> dekad of June, 2018 is shown in figure 2 below. Above normal to normal rainfall anomalies prevailed across most parts of the country except North-east, part of the North Central, Ibadan, Iseyin, and Uyo, which experienced below normal rainfall anomalies.



**Figure 2: Rainfall Departure**

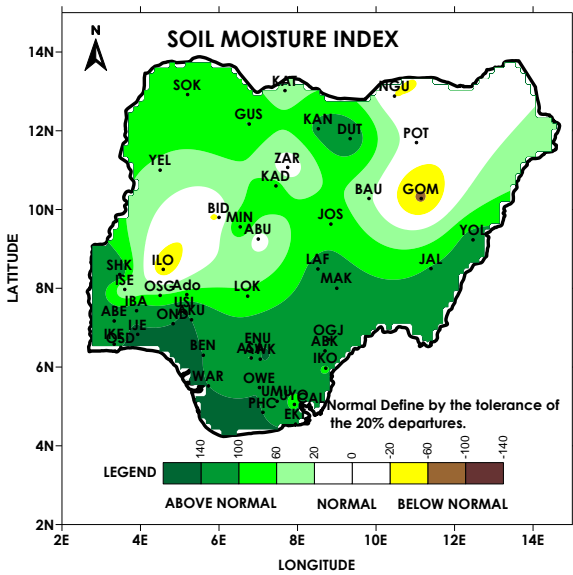
**1.3 Number of Rain Days**



**Figure 3: Rain- Day**

The distribution of number of rain-days for 3<sup>rd</sup> dekad of June shows slight increase of number of rain-days when compare with the previous dekad. The distribution ranges from 1-10 rain days across the country,

### 1.4 Soil Moisture Index.



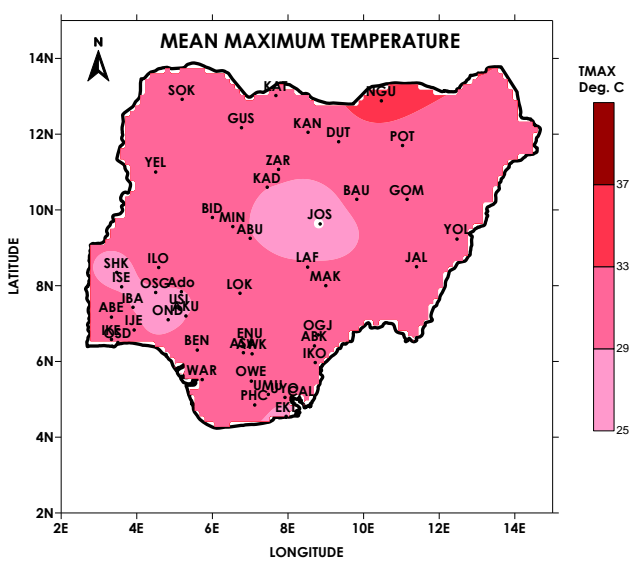
**Figure 4: Soil Moisture Index (SMI).**

The distribution of available soil moisture across the country is shown in figure 4. The distribution indicates above normal to normal soil moisture conditions in most parts of the country except Bida, Ilorin, Gombe and Nguru which experienced below normal soil moisture condition.

### 2.0 Temperature Trend

The maximum temperature trends across the country and their departures from 30-year average during the dekad are highlighted in this section.

#### 2.1 Maximum Temperature Trend

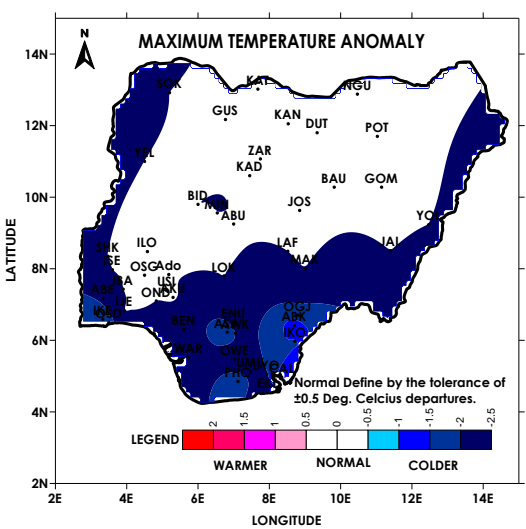


**Figure 5: Mean Maximum Temperature**

The day-time temperature for the 3rd dekad of June, 2018 is shown in figure 5 below. The mean maximum

temperature ranged from 24.4°C (over Jos) to 33.3°C (over Nguru).

### 2.2 Maximum Temperature Departure



**Figure 6: Maximum Temperature Anomaly.**

Figure 6 shows the maximum temperature anomaly across the country. Most parts of the country experienced normal to colder than-normal temperature anomalies no part of the country experienced warmer than normal day-time temperature anomalies.

### 3.0 Weather/Agricultural Outlook for first dekad (01-10) of July, 2018.

#### 3.1 Weather Outlook

The Inter-Tropical Discontinuity (ITD) is expected to move northwards above the country to attain a mean position of 16.7°N. Continuous influx of south westerly wind from the ocean into the country are expected to dominate the country at the 850hpa pressure level. Cloudy conditions are anticipated over the northern and central region with some chances of thundery activities. The southern states are expected to be in cloudy conditions with localise rain showers.

#### 3.2 Advisories

The Nigerian Meteorological Agency (NiMet) has released its Seasonal Rainfall Prediction earlier this year (i.e. Forecast for planting date, cessation, length of growing season and total rainfall amount) for 2018. The prediction indicates normal onset and cessation of rainfall in many parts of country. Farmers across the country more especially the Sudano-Sahelian zone (Borno, Yobe, Jigawa, Katsina, Zamfara, Kebbi and Sokoto) are advised to continue planting ecologically friendly trees for soil fertility, conservation

and carbon sequestration. However, all stakeholders are hereby advised to go through NiMet website ([www.nimet.gov.ng](http://www.nimet.gov.ng)) or contact NiMet nearby stations for more information and guidance.

Rain fed agriculture is going on across most parts of the country. Harvesting of vegetables, cereals, root and tuber crops are ongoing across some states. Planting across the north-eastern state such as Yobe have commenced.

### 3.3 Agricultural Activity

**TABLE OF AGROMETEOROLOGICAL DATA FOR THE DEKAD**

STATION	RAINFALL	RAIN DAY	PET	TMAX	TMIN	DD	RADIATION
ABEOKUTA	120	6	40.2	31.0	22.0	184.8	17.0
ABAKALI	196.3	7	35.4	31.4	24.9	201.2	14.6
ABUJA	35.4	3	36.8	29.2	21.3	172.1	15.9
ADO-EKITI	67.7	7	38.7	28.9	20.1	164.9	17.0
AKURE	166.5	9	35.7	29.0	21.6	172.9	15.4
ASABA	76.7	5	39.2	31.0	22.6	188.0	16.4
AWKA	243.4	9	37.7	30.5	22.8	186.3	15.9
BAUCHI	47.9	2	38.4	31.0	22.9	189.8	16.1
BIDA	27.6	6	36.3	30.3	23.0	186.4	15.3
CALABAR	127.9	7	36.1	30.0	22.7	183.5	15.3
DUTSE	100	5	40.5	32.1	23.0	195.4	16.8
EKET	92.68	6	25.4	27.4	23.7	175.8	10.9
ENUGU	130.2	7	36.6	30.3	23.0	186.6	15.4
GOMBE	9.9	3	36.2	30.0	22.6	182.9	15.4
GUSAU	72.7	4	36.0	30.7	23.4	190.6	15.1
IBADAN	79.4	4	34.0	28.9	22.2	175.3	14.6
IJEBU	89.8	7	33.6	29.3	22.8	180.3	14.3
IKEJA	80.2	7	35.3	29.9	23.0	184.4	14.9
ILORIN	20.2	4	39.5	30.4	21.7	180.5	16.8
ISEYIN	38.2	4	35.4	28.8	21.5	171.1	15.4
JALINGO	82.5	2	40.7	30.6	21.3	179.8	17.4
JOS	63.1	7	33.1	24.4	16.6	124.8	15.7
KADUNA	66.9	6	36.9	29.1	20.9	170.1	16.0
KANO	83.4	6	38.9	31.1	22.5	188.0	16.4
KATSINA	54.9	3	40.9	32.3	23.1	196.5	16.9
LAFIA	75.5	5	35.1	29.7	22.6	181.9	14.9
LOKOJA	64.1	3	38.1	31.1	23.3	191.8	15.9
MAIDUGURI	*	*	*	*	*	*	*
MAKURDI	90.5	5	41.3	31.2	21.8	184.9	17.5
MINNA	78.2	6	36.9	29.5	21.6	175.6	15.9
OGOJA	90.2	4	39.7	31.4	23.0	192.3	16.6
ONDO	213.7	8	35.3	28.6	21.1	168.6	15.4
OSHODI	87.6	5	31.7	29.7	24.1	189.1	13.3
OWERE	147.4	6	39.6	29.8	20.9	173.5	17.1
POTISKUM	44	5	41.2	32.0	22.7	193.5	17.1
SHAKI	158.5	3	35.9	28.1	20.3	161.6	15.9
SOKOTO	73	4	40.0	31.9	22.9	193.9	16.6
USI-EKITI	109.0	7	41.5	27.9	16.9	144.3	18.9
UYO	63.6	6	35.1	29.8	22.9	183.6	14.9
WARRI	117.5	10	33.4	29.5	23.4	184.5	14.1
YELWA	58.4	4	38.3	31.4	23.2	193.0	15.9
YOLA	77.8	4	34.4	30.4	23.5	189.9	14.3
ZARIA	44.0	8	37.9	30.0	21.0	169.8	13.9

Note:  
 Rainfall (mm)  
 PET= Potential Evapotranspiration (mm/decade)  
 TMAX = Maximum Temperature (°C)  
 TMIN = Minimum Temperature (°C)  
 GDD= Growing Degree Day (day)  
 RAD = Radiation (MJ/m<sup>2</sup>/day)

**Kindly send feedback to:**  
**The Director-General/CEO,**  
**Nigerian Meteorological Agency (NiMet),**  
**National Weather Forecasting and Climate**  
**Research Centre, NnamdiAzikiwe International**  
**Airport, PMB 615 Garki, Abuja.**  
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