

**Summary**

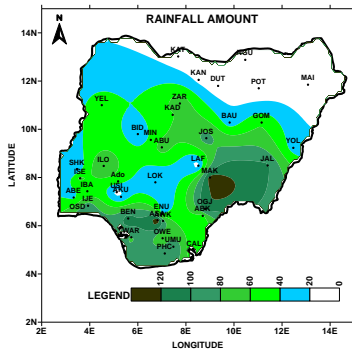
The agrometeorological bulletin for the second dekad of May, 2017 is presented in this edition. The country recorded moderate to heavy rainfall amount across some parts of the country, the highest rainfall amount was recorded in Asaba (136.9mm). Rainfall distribution showed a wide distribution of 1-9 rain-days across the country. Most parts of the southern and central states experienced above normal while, the northern areas had below normal soil moisture conditions. Nguru (41.3°C) recorded the highest mean maximum temperature across the country, while the mean minimum temperature across the country was observed at Jos (18.0°C). The maximum temperature anomaly showed the entire country experienced normal to warmer than-normal temperature anomalies. The Inter Tropical Discontinuity (ITD) is expected to continue northward movement with mean position of 15.0°N. Land preparation and planting of rain fed agriculture are expected to continue across some parts of the far North. Farmers should consult NiMet Seasonal Rainfall Prediction (SRP) for proper guidance especially when the onset of rains are yet to be established.

**1.0 Rainfall Pattern**

The observed rainfall amount, rain-day, available soil moisture and their departures from 30-year average for the second dekad of May, 2017 is highlighted in this section.

north-east and south-west flank of the country with the exceptions of places in and around Katsina, Kano, Minna, Bidda, Ibadan, Abakaliki and Warri had normal rainfall anomalies.

**1.1 Rainfall Amount**

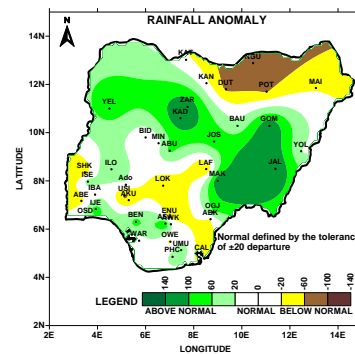


**Figure 1: Rainfall Amount (mm)**

The figure above shows observed rainfall amount recorded over the country for the 2<sup>nd</sup> dekad of May, 2017. There was a decrease in rainfall amounts across the country when compared with the preceding dekad. The northern states recorded significant rainfall amounts in Makurdi with 128.6mm, followed by Jalingo (102.7mm), Ilorin (80.0mm), Abuja (70.6mm), Zaria (76.1mm), Gombe (58.0mm), Kaduna (57.7mm), Yelwa (46.1mm) and Minna with 42.9mm, while other places had below 28mm of rainfall. The southern states also recorded moderate to heavy rainfall amounts in some parts of the cities like Asaba, Ogoja, Benin, Umuahia, Port-Harcourt, Ijebu-ode and Awka recorded rainfall values of 136.0mm, 115.0mm, 110.7mm, 103.7mm, 96.6mm, 92.6mm, 91.2mm and 77.0mm, respectively, while other places recorded below 50.0mm of rainfall. Farmers across the northern states are advised to consult NiMet SRP for proper guidance.

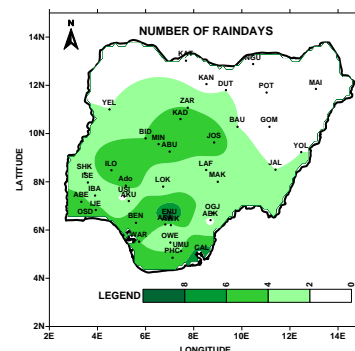
**1.2 Rainfall Departure.**

Figure 2 shows the rainfall departure during the 2<sup>nd</sup> dekad of May, 2017. It revealed that rainfall departure was above normal in most parts and below normal in



**Figure 2: Rainfall Departure**

**1.3 Number of Rain Days**



**Figure 3: Rain- Day**

The number of rain days is shown in figure 3. The distribution of rain-days revealed an increase in number of rain-days across the country especially the southern and central parts with values of 1-9 rain days. Elsewhere had zero rain days during the dekad.

**1.4 Soil Moisture Index**

Figure 4 shows the available soil moisture across the country for the dekad under review. However, most parts of the southern and central of the country experienced above normal while the northern areas had below normal soil moisture conditions. Elsewhere like Gombe, Yelwa, Minna, Ibadan, Ado Ekiti, calabar and Abeokuta had normal conditions during the dekad under review.

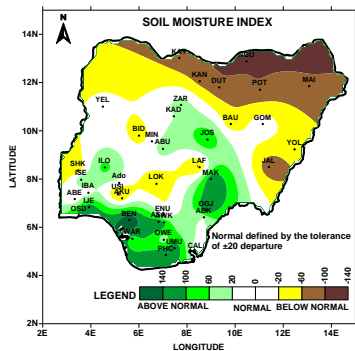


Figure 4: Soil Moisture Index (SMI).

## 2.0 Temperature Trend

This section highlights the maximum and minimum temperature trends across the country and their departures from 30-year average during the dekad.

### 2.1 Maximum Temperature Trend

The mean maximum temperature for 2<sup>nd</sup> dekad of May, 2017 is shown in figure 5. The mean maximum temperature decreased slightly across the country, particularly over the northern cities. The highest maximum temperature was recorded at Nguru (41.3°C).

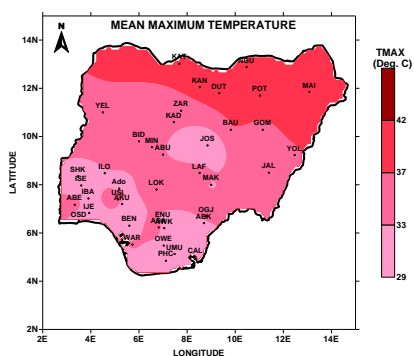


Figure 5: Mean Maximum Temperature

### 2.2 Maximum Temperature Departure

The maximum temperature anomaly for the country is shown in figure 6. It showed that the entire country experienced normal to warmer than-normal temperature anomalies.

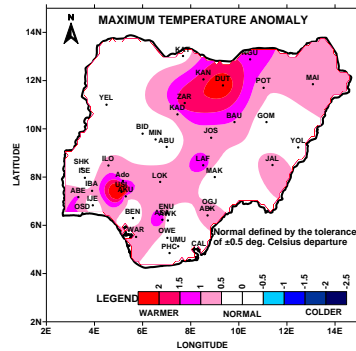


Figure 6: Maximum Temperature Anomaly.

## 2.3. Minimum Temperature

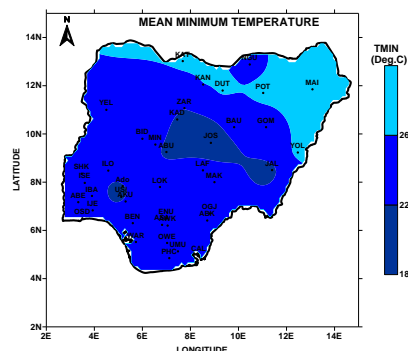


Figure 7: Mean Minimum Temperature

The mean minimum temperature across the country is shown in figure 7. The lowest value was recorded at Jos (18.0°C).

### 2.4 Minimum Temperature Departure

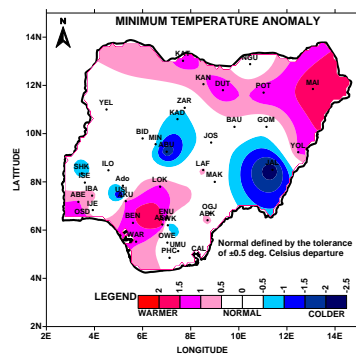


Figure 8: Mean Minimum Temperature Departure

The minimum temperature departure for the 2<sup>nd</sup> dekad of May, 2017 is shown in figure 8 and it revealed that most parts of the country experienced warmer than-normal to normal conditions with the exception of Abuja, Jalingo, Usi Ekiti and Shaki that had colder than-normal night temperature anomalies.

## 3.0 Vegetation Conditions

No data for the dekad under review.

#### 4.0 Weather/Agricultural Outlook for 3<sup>rd</sup> dekad (21-31) of May, 2017.

##### 4.1 Weather Outlook

The Inter-Tropical Discontinuity (ITD) is expected to continue its north ward movement to with a mean position of 15.0°N.

The sunny and cloudy conditions are expected over the northern part of the country with chances of localised rain showers towards afternoon to evening

hours. Partly cloudy to cloudy conditions are anticipated across the central states with some prospects of thundery/localised rains. Some places in the inland and coastal cities of the South may have prospects of localize rainfall activities.

##### 4.2 Agricultural Activity

Land preparation and planting of rain fed agriculture are expected to continue across some parts of the far North. Farmers are advised to consult NiMet SRP for better application and farming activities.

**TABLE OF AGROMETEOROLOGICAL DATA FOR THE DEKAD**

STATION	RAINFAL L	RAINDAY	PET	TMAX	TMIN	DD	RADIA TION
ABEOKUT A	34	5	43.5	33.9	25.1	215.3	17.4
ABUJA	70.6	5	49.0	33.1	21.0	190.6	20.5
ABAKALIKI	51	1	42.9	32.8	24.0	203.8	17.5
BENIN	110.7	5	37.8	32.1	25.1	205.8	15.4
CALABAR	38.6	8	40.2	31.5	23.4	194.6	16.7
ENUGU	33.9	10	41.6	32.6	24.3	204.7	17.0
IKOM	X	X	X	X	X	X	X
ISEYIN	66.2	3	40.9	31.3	23.0	191.4	17.1
JOS	90.9	6	43.4	28.9	18.0	154.3	19.4
KADUNA	57.7	5	49.3	33.8	21.8	197.7	20.4
KANO	14.1	1	54.9	38.9	26.0	244.1	21.0
KATSINA	6.5	1	52.8	38.5	26.6	245.4	20.1

MINNA	42.9	5	46.0	33.5	23.4	204.5	18.8
ADO-EKITI	51	5	45.3	32.1	21.8	189.9	19.0
WARRI	77.7	4	41.9	33.2	24.9	210.5	16.9
SOKOTO	X	X	X	X	X	X	X
YELWA	46.1	2	49.4	36.3	25.3	227.9	19.4
YOLA	30	2	47.7	36.6	26.9	237.4	18.4

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:

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