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VOLUME N° 05: SECOND DEKAD OF FEBRUARY 2026



Summaries

- ◆ RAINFALL ANALYSIS
- ◆ TEMPERATURE ANALYSIS
- ◆ POTENTIAL EVAPOTRANSPIRATION
- ◆ LIVELIHOOD COMFORTABILITY INDEX
- ◆ VEGETATIVE CONDITION
- ◆ MONTHLY CLIMATE OUTLOOK
- ◆ FARMER ADVISORY

AGROMETEOROLOGICAL CONDITION

Rainfall during the second Dekad of FEBRUARY 2026: The second dekad of February 2026 was characterized by low to moderate rainfall amount across the country. Nationwide, rainfall amounts ranged from **9.3.7mm to 43.3mm**, with River Gee, Maryland and Grand Kru counties experiencing the highest amount of rainfall during this period (Figure 1). The lowest rainfall was experienced in the western and central regions of the country.

Normal rainfall (1990-2020): As compare to the rainfall normal, most parts of the country received above normal rainfall accept Lofa, part of Gbapolu, Bong, Margibi and Montserrado which experienced normal rainfall amount (figure 2).

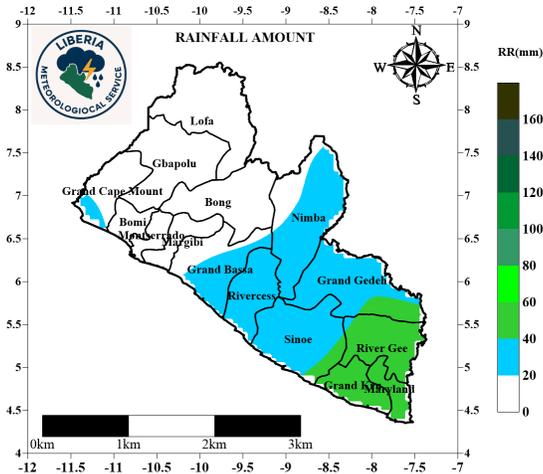


Figure 1: Rainfall amount

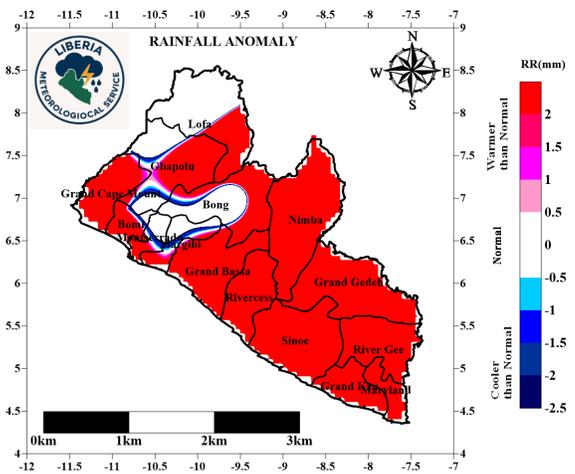


Figure 2: Rainfall Normal (1990-2020)

Number of rainy days during the second Dekad of February 2026: During the second Dekad of February 2026, most parts of the country received rainfall between one to seven days. However, River Gee and Grand Gedeh Counties recorded the highest number of rainy days. The rest of the counties experienced rainy day between one to six days. (figure 3).

Soil Moisture Index (SMI) during the second Dekad of February 2026: The second DEKAD of February 2026 shows that the north and western parts of the country experienced below normal moisture content in the soil while the southeast and the coastal regions experienced normal moisture content in the soil (figure 4). Grand Kru experienced above normal moisture content in the soil.

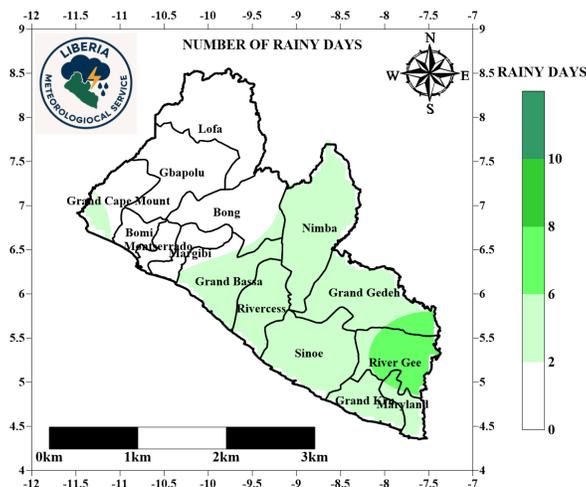


Figure 3: Number of rainy days

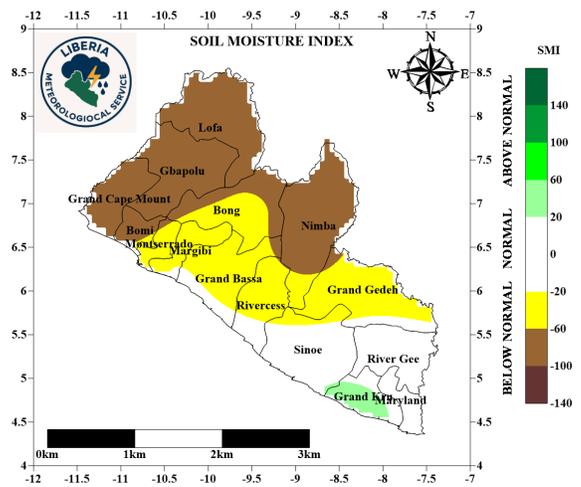


Figure 4: Soil Moisture Index

EVOLUTION OF TEMPERATURES

Maximum Temperature: The second Dekad of February 2026 was marked by an increase in maximum temperatures in most parts of the country with Lofa and part of Gbapolu counties experiencing the lowest. During this period maximum temperature ranged between 28.8°C and 31.0°C (Figure 6).

Compared to the long-term mean (1990–2020), most parts of the country was cooler than normal as shown in blue. However, Lofa, Maryland and parts of Gbapolu, Grand Kru, River Gee, Sinoe, Bassa Margibi and Montserrado counties experienced normal temperature (Figure 7).

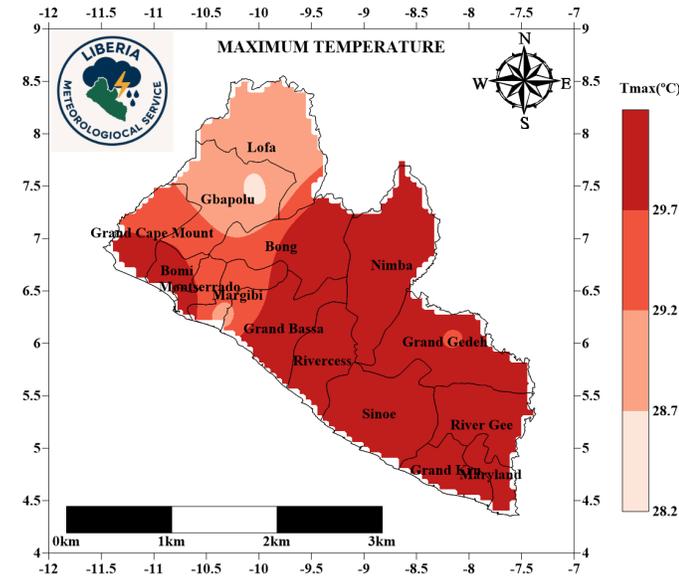


Figure 5: Maximum temperatures at 2m

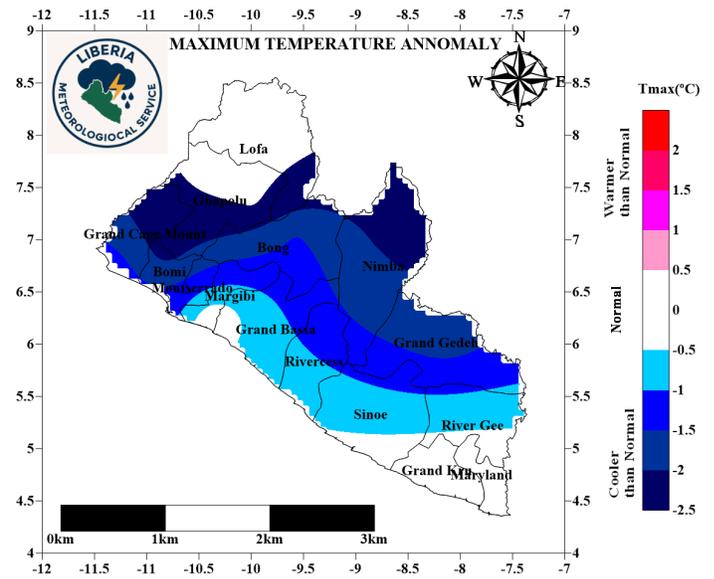


Figure 6: Maximum Temperature Anomaly (1991-2020)

Minimum Temperature: The second Dekad of February 2026 was marked by variation in minimum temperature. The southern (costal) region experienced high minimum temperature, while the northern and northwestern region experienced the lowest. Minimum temperature during this period ranged from 19.1°C to 26.0°C (figure 7).

Compared to the long-term mean (1990–2020), the northern and central regions of the country experienced warmer condition while the coastal and southeast region experienced normal condition. Nevertheless, parts of Lofa, Gbapolu, Bong and Grand Cape Mount counties experienced hotter condition as compare to the rest of the counties (figure 8).

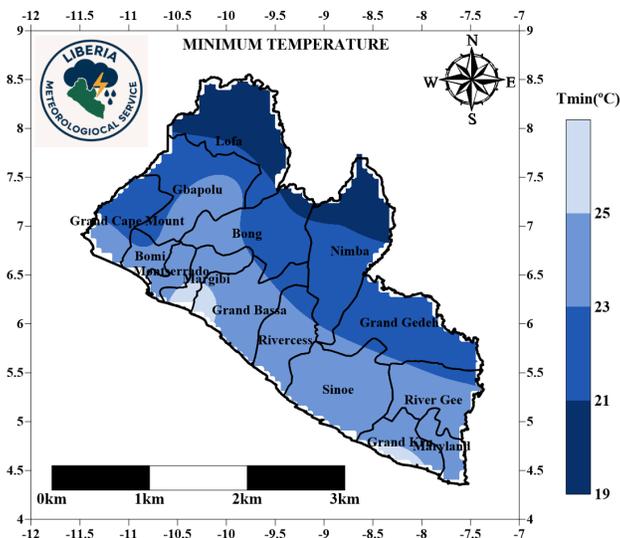


Figure 7: Minimum temperatures at 2m

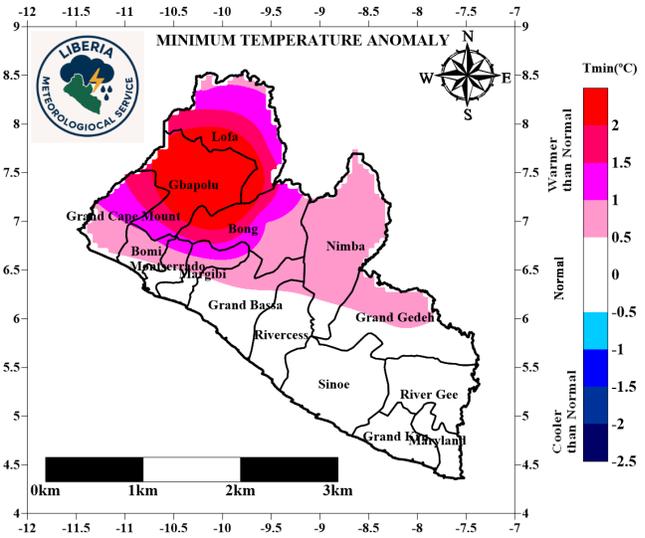


Figure 8: Minimum Temperature Anomaly (1991-2020)

POTENTIAL EVAPOTRANSPIRATION

During the second Dekad of February 2026, most parts of the Country experienced intense sunshine with high evapotranspiration rates. However, the coastal region experienced low evapotranspiration rate with Montserado, Margibi, Grand Bassa, and Grand Kru experiencing the lowest (Figure 9).

Livestock Comfortability Index (LCI): During the second Dekad of February 2026, livestock experienced moderate thermal stress due to rising daytime temperature, moderate humidity, and reduced wind speed. Animals show moderate discomfort and reduced feeding during peak afternoon hour, but no major health risk are anticipated with proper shade and hydration (Figure 10).

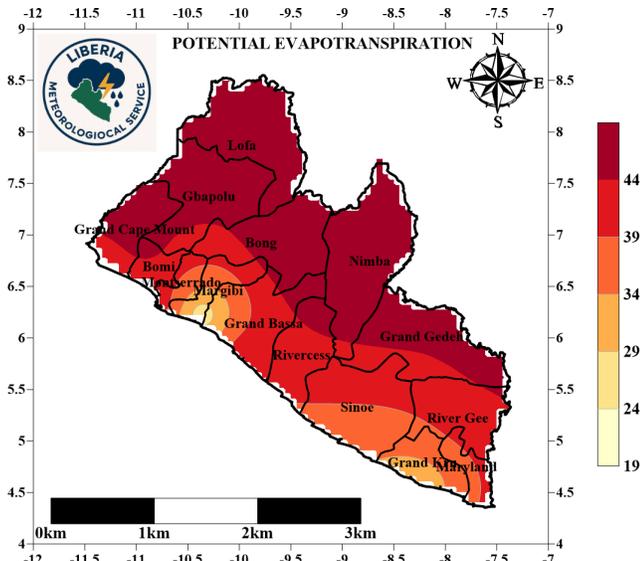


Figure 9: DEKAD one Potential Evapotranspiration

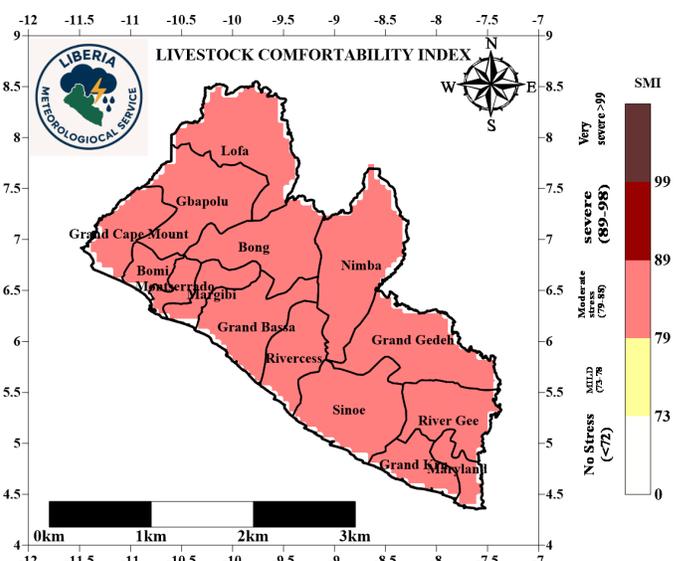


Figure 10: DEKAD one Livestock Comfortability Index

FORECAST FOR THE MONTH OF FEBRUARY 2026

Normalized difference Vegetation Index (NDVI): During the second, Rivergee, Maryland, Grand Kru, Lofa and Gbapolu experienced decrease in vegetation while other parts of the country remain moderately green (Figure 10).

RAINFALL: In February 2026, the forecasted cumulative rainfall amount across the counties is anticipated to be between 34.4mm and 99.9mm. Sinoe, River Gee, Grand Kru, Maryland and part of Rivercess are expected to record the highest rainfall amount. Rainfall amounts of below 34.4mm is predicted in upper Lofa County. The rest of the Country are expected to experience between 45.3mm to 79.5mm (figure 11).

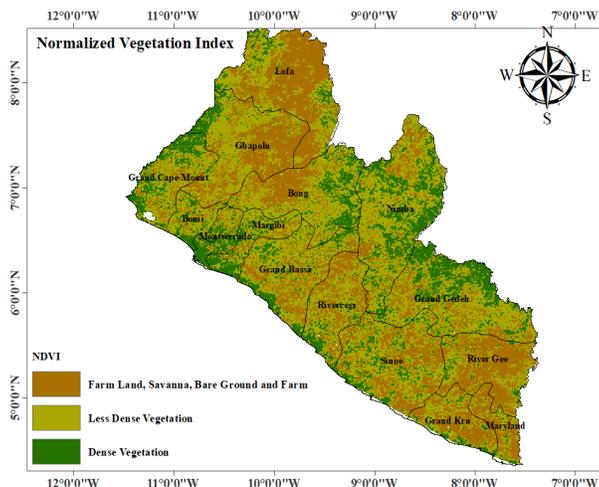


Figure 11: Second DEKAD NDVI

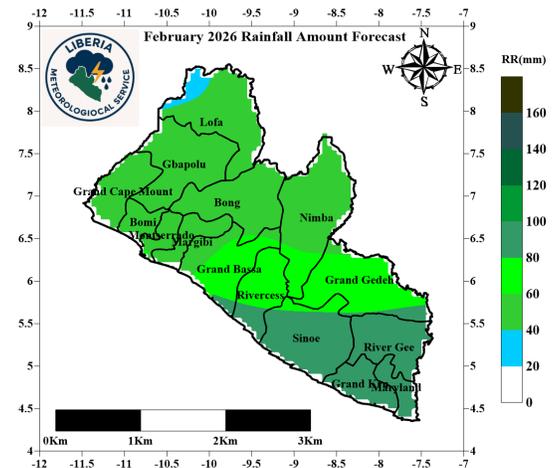
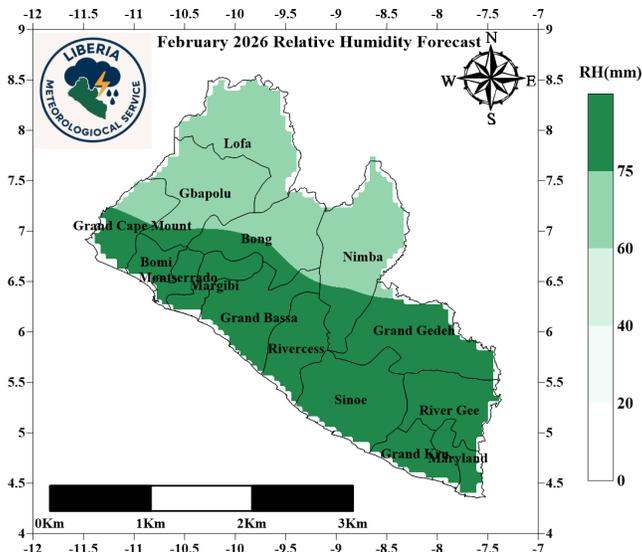


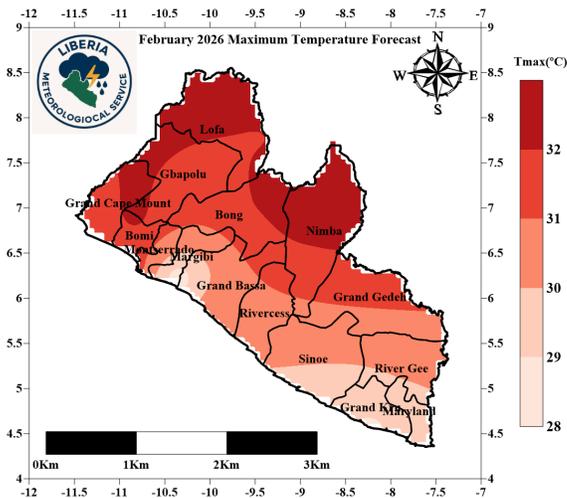
Figure 12: Rain forecasts for February 2026

FORECAST FOR THE MONTH OF FEBRUARY 2026



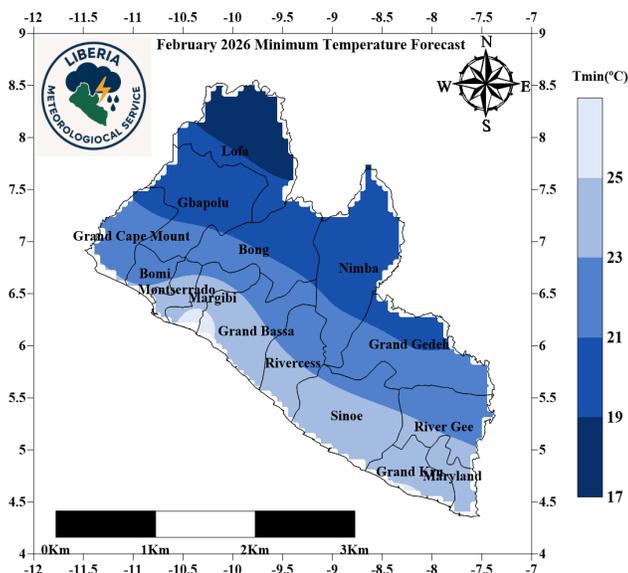
Relative humidity across Liberia for February 2026 is predicted to range from 61.7% to 82.4%, as shown in Figure 2. The highest range of values (79.5–82.4%) are expected in the coastal and the southeast counties. The extreme north and the central region are expected to record the lowest relative humidity.

Figure 13: RH forecasts for February 2026



Maximum Temperature: The maximum temperature in February 2026 is anticipated to be 28.3°C to 32.3°C across the counties. The lowest maximum daytime temperatures are predicted over Maryland, Grand Kru, Sinoe and Margibi counties. The highest maximum temperature are expected in the north, west and central regions of the country. However, extreme maximum temperature is expected to occur in parts of Lofa, Nimba, Bong, Gbapolu and Grand Cape Mount counties (figure 14).

Figure 14: Tmax forecasts for February 2026



Minimum Temperature: Minimum temperatures across the country in February 2026 are anticipated to range between 18.5°C and 26.0°C. The lowest minimum temperature range of 18.5°C to 20.6°C is anticipated in parts of Lofa, Gbapolu, Bong, Nimba and Grand Gedeh counties, while the highest minimum temperature of 26.0°C is expected in the coastal region with Margibi expected to experience the highest (Figure 15).

Figure 15: Tmin forecasts for February 2026

Farmers Advisories

As rainfall has decrease over the dekads and expected to decrease in the coming dekads of February 2026, and soil moistures expected to decrease, farmers are strongly encouraged to take the following precautions in their agricultural practices:

- **Field Preparation:**

Move to low lying areas for vegetable production, this will reduce the risk of wilting and maximize yield of vegetables.

Create drainage channels where possible to prevent water logging in case of heavy rainfall.

- **Crop Management:**

Plant drought tolerant crop variety to reduce the risk of losses.

Monitor crops regularly for sign of disease or stress caused by lost to high evapotranspiration.

Irrigate when you observe high evaporation and evapotranspiration.

- **Livestock Management:**

Move animals to low lying areas to avoid heat stress.

Ensure animals are properly housed and maintain good hygiene to prevent disease outbreaks.

Provide clean drinking water regularly to prevent dehydration and heat stress.

Check livestock frequently for symptoms of illness and provide timely treatment when needed.

- **General Precautions:**

Stay informed about weather updates through the Liberia Meteorological Service website (<https://meteoliberia.com>).

Work closely with local agricultural extension officers for region-specific advice on crop and livestock management.

By taking these proactive measures, farmers can protect their crops and livestock, reduce losses, and maintain productive agricultural practices during periods of increased rainfall.

Average values of meteorological parameters for the second DEKAD of February 2026

| Stations | Temperature at two (2) meters | | | Precipitation | Humidity |
|-----------|-------------------------------|---------|-----------|---------------|-----------|
| | Ave. Tx | Ave. Tn | Ave. Temp | Rainfall Sum | Ave. Hum. |
| AGBAS81 | 30.7 | 24.5 | 27.6 | 30.9 | 81.1 |
| AGBEL87 | 28.8 | 24.0 | 26.4 | 18.0 | 84.1 |
| AGCAR83 | 30.4 | 21.5 | 26.0 | 9.3 | 82.8 |
| AGFOY86 | 29.1 | 19.1 | 24.1 | 0.0 | 77.1 |
| AGFTI80 | 29.9 | 22.7 | 26.3 | 13.3 | 86.0 |
| AGFTW82 | 30.0 | 23.5 | 26.7 | 41.8 | 85.4 |
| AGGCM89 | 30.4 | 23.8 | 27.1 | 24.6 | 85.8 |
| AGSAR85 | 31.0 | 21.1 | 26.0 | 20.0 | 81.3 |
| AGVON84 | 29.1 | 19.1 | 24.1 | 0.0 | 77.1 |
| AGZOR88 | 29.1 | 19.4 | 24.3 | 20.0 | 79.0 |
| RF-06-KAB | 29.6 | 24.6 | 27.1 | 40.6 | 82.2 |
| SYGCA64 | 29.4 | 25.4 | 27.4 | 43.3 | 81.6 |
| SYHAR63 | 30.5 | 24.8 | 27.6 | 43.3 | 81.0 |
| SYROB60 | 28.8 | 26.0 | 27.4 | 10.4 | 82.1 |
| SYSPA65 | 30.4 | 24.1 | 27.2 | 17.2 | 84.8 |
| SYTPT62 | 30.2 | 21.7 | 25.9 | 24.0 | 83.6 |
| SYZWD61 | 29.7 | 22.1 | 25.9 | 39.1 | 83.7 |

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**Motto: Weather is everybody
business**

The Liberia Meteorological Service (LMS) is responsible for providing meteorological services to support the social and economic progress of Liberia, ensure the safety and well-being of its population, and fulfil its international obligations.

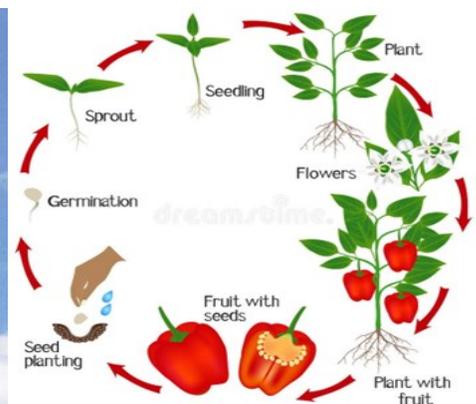
It was created by an Act of Legislation in April 1972 and was placed under the Ministry of Transport. Prior to that, it was under the Ministry of Commerce, Industry and Transportation.



Hot pepper



MET. Observation



Phenology of pepper