

REPUBLIQUE DU CAMEROUN
Paix – Travail – Patrie

MINISTRE DES TRANSPORTS

SECRETARIAT GENERAL

DIRECTION DE LA METEOROLOGIE NATIONALE

SOUS DIRECTION DES APPLICATIONS METEOROLOGIQUES

SERVICE DE L'AGROMETEOROLOGIE ET DE L'ENVIRONNEMENT ATMOSPHERIQUE



REPUBLIC OF CAMEROON
Peace – Work – Fatherland

MINISTER OF TRANSPORT

SECRETARIAT GENERAL

DEPARTMENT OF NATIONAL METEOROLOGY

SUB DEPARTMENT OF METEOROLOGICAL APPLICATIONS

SERVICE OF AGROMETEOROLOGIE AND ATMOSPHERIC ENVIRONMENT

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WEATHER ASSISTANCE BULLETIN TO
ANIMAL HUSBANDRY



CONTENT

SYNOPSIS FOR DECISION MAKERS

I. DEKADAL OBSERVATIONS

1. Temperature analysis for the second dekad of May 2024

II. FORECAST FOR THE THIRD DEKAD OF MAY 2024

1. Temperature forecast for the third dekad of May 2024
2. Thermal stress forecast : Temperature – Humidity Index (THI)
3. Rainfall forecast for the third dekad of May 2024

III. PRACTICAL IMPLICATIONS IN ANIMAL HUSBANDRY AND RECOMMENDATIONS

FOR MORE INFORMATIONS CONTACT :

THE DEPARTMENT OF NATIONAL METEOROLOGY / MINISTRY OF TRANSPORT :



saea.dmn@meteocameroon.gov.cm



@DMN_CMCR



Météorologie Nationale Cameroun



+237 2 22 22 03 30 / 692892853

INTRODUCTION

The main objective of this **weather assistance bulletin to animal husbandry** is to make available to rural institutions, pastoral industries and individuals, tailored weather forecasts for livestock production. Practical recommendations are provided to minimise the impact of weather phenomena on livestock.

The methodological approach combines the observation of meteorological parameters, the spatial distribution of humid (active photosynthetic) and dry (non-active photosynthetic) vegetation on the one hand, and on the other hand the identification of climatological thresholds which are values indicators that can facilitate decision-making, for adaptation measures, optimization of production, and prevention of the impacts of zoosanitary and atmospheric risks.

SYNOPSIS

- ♦ The third dekad of May will be marked by a gradual onset of the rainy season in the Far-North region. Moreover, heavy rainfall accumulations greater than or equal to 100 mm are likely to shower the South-West, South and Adamawa regions. However, moderate accumulations between 100 and 50mm are likely to be recorded in the Center, East, Littoral, West and North-West regions. Furthermore, low accumulations of less than 50 mm are likely to be recorded in the North and part of the Centre. However, a scarcity of rains is awaited in the localities of Yabassi, Eseka, and Abong-Mbang.
- ♦ The third dekad of May will be marked by slightly cool weather in most part of the territory. The highest maximum temperatures, varying between 35 and 41°C, are likely to be recorded in the Far-North, the North and part of the Center regions. However, the lowest temperatures, below 21°C, are likely to be recorded in parts of the North-West, West, Centre, East and Adamawa regions.
- ♦ **POULTRY** : The entire territory will experience light to moderate stress on poultry. This could be marked by a reduction in intake and a drop in egg production.
- ♦ **CATTLE FARMING**: The Far-North, North, Adamawa, East and North-West regions will be marked by moderate to severe heat stress, insufficient availability of fodder and dehydration of animals.
- ♦ **PIG BREEDING**: The Littoral, Centre, South-West, South and East regions will experience moderate to severe heat stress conditions. This could be marked by a decrease in food consumption, an increase in water consumption and a decrease in weight gain.

I. DEKADAL OBSERVATIONS

1. Temperature analysis for the first dekad of May 2024

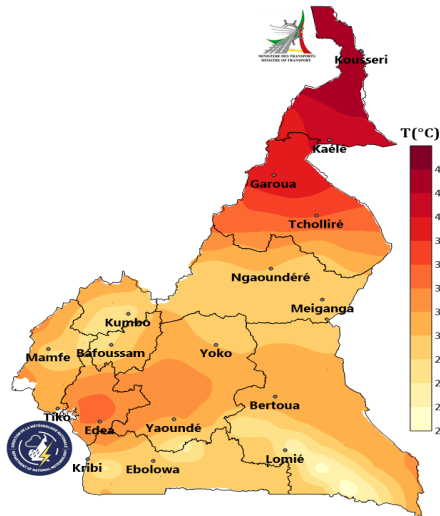


Fig1: average maximum temperature
Source : IRI

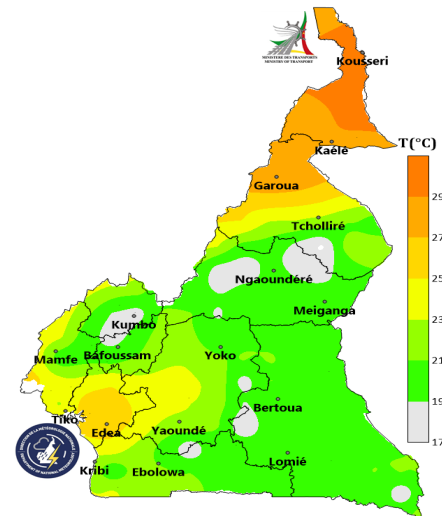


Fig2: average minimum temperature
Source : IRI

The second decade of May was marked by slightly cool weather in most parts of the territory, with average minimum temperatures between 17 and 21°C. However, some localities in the Littoral, South, Center, South-West, North and Far-North regions were characterized by hot weather with minimum temperatures greater than 23°C. On the other hand, high values of average maximum temperatures above 38°C were recorded in some localities of the Far-North and North regions.

II. FORECAST FOR THE THIRD DEKAD OF MAY 2024

1. Temperature forecast for the third dekad of May 2024

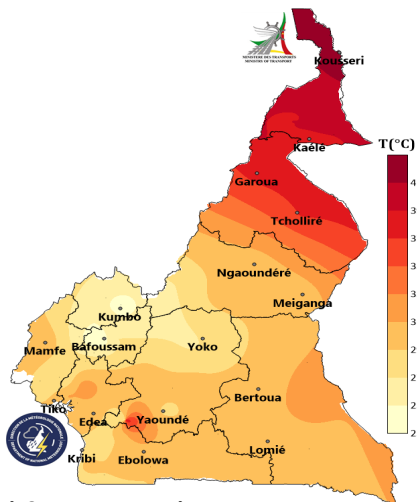


Fig3: average maximum temperature
Source : DMN

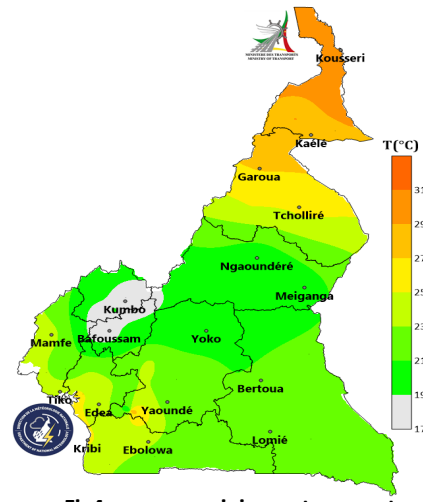


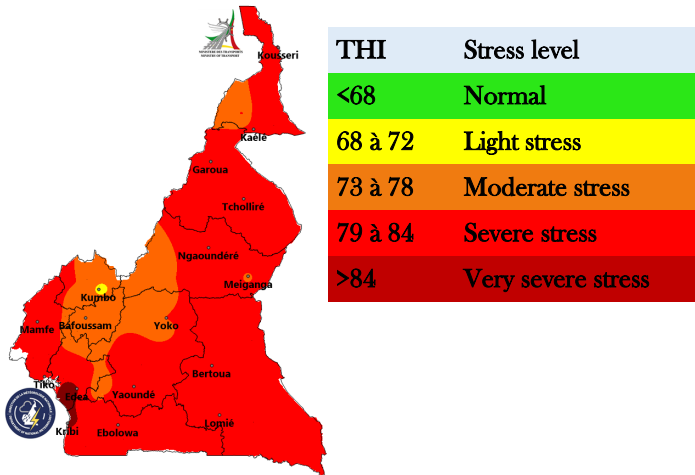
Fig4: average minimum temperature
Source : DMN

The third dekad of May will be marked by slightly cool weather in most part of the territory. The highest maximum temperatures, varying between 35 and 41°C, are likely to be recorded in the Far-North, the North and part of the Center regions. However, the lowest temperatures, below 21°C, are likely to be recorded in parts of the North-West, West, Centre, East and Adamawa regions.

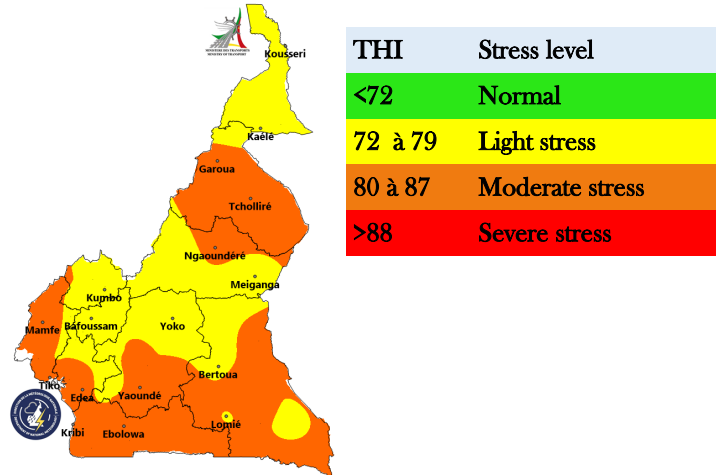
II. FORECAST FOR THE THIRD DEKAD OF MAY 2024

2. Thermal stress forecast : Temperature – Humidity Index (THI)

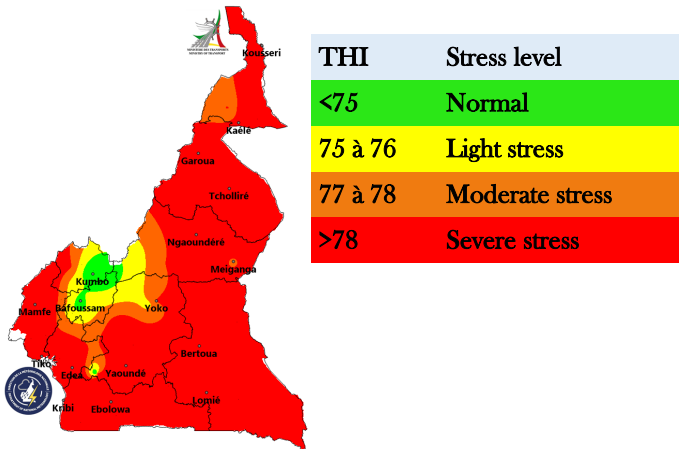
i. For cattle



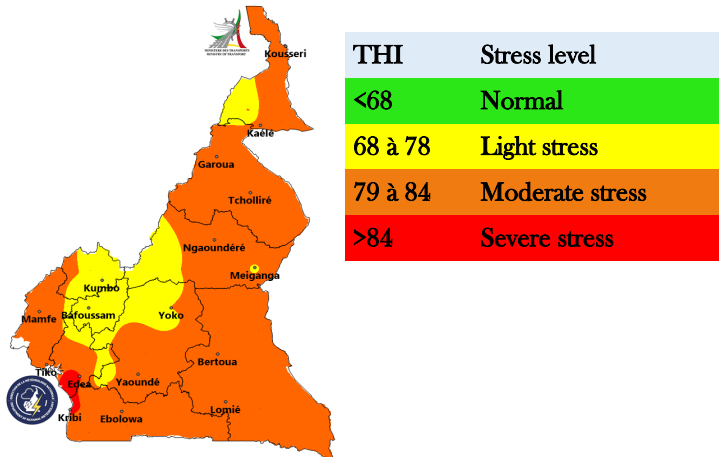
ii. For poultry



iii. For fattening pigs



iv. For breeding sows



3. Rainfall forecast for the third dekad of May 2024

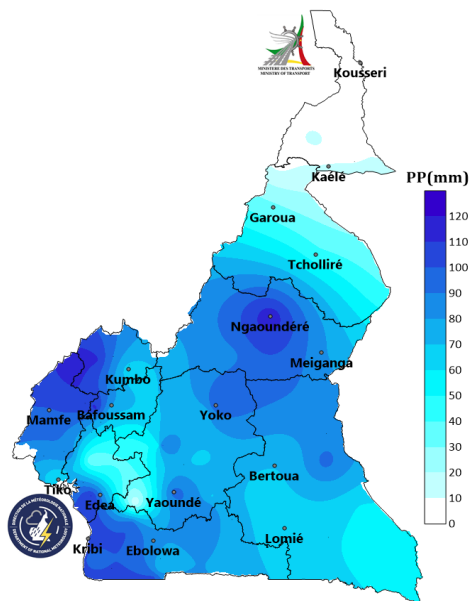


Fig6: dekadal rainfall cumulation (mm)

Source : DMN

The third dekad of May will be marked by a gradual onset of the rainy season in the Far-North region.

Moreover, heavy rainfall accumulations greater than or equal to 100 mm are likely to shower the **South-West, South and Adamawa** regions. However, moderate accumulations between 100 and 50mm are likely to be recorded in the **Center, East, Littoral, West and North-West** regions. Furthermore, low accumulations of less than 50 mm are likely to be recorded in the **North** and part of the **Centre**. However, a scarcity of rains is awaited in the localities of **Yabassi, Eseka, and Abong-Mbang**.

III. PRACTICAL IMPLICATIONS IN ANIMAL HUSBANDRY AND RECOMMENDATIONS

Cattle production basin: Far-North, North, Adamawa, East, North-West

Influenced livestock parameter	zone	Risk due to weather conditions	Risk level	Probable impacts	Recommendations
Health	All	Moderate to severe stress	Medium risk	-decrease in rumination -decrease in reproduction performance -decrease in milk production	- regularly make the animals drink water -make trips during the cooler hours of the day -provide shaded areas to protect animals
Accommodation	AD/NW	Deterioration of shelter	Medium risk	Destruction of shelter	Properly renovate shelter with durable material
Nutrition	FN	-drying out of forage crops -drying of water ponds	Medium risk	-insufficient availability of fodder -dehydration of animals	Carry out transhumance towards more favorable areas such as Adamawa

Pig production basin: Littoral, Center, South-West, South, East, North-West, West

Influenced livestock parameter	zone	Risk due to weather conditions	Risk level	Probable impacts	Recommendations
Health and reproduction	LT/CE/SW/S/E	Moderate to severe stress	Medium risk	-decrease in food consumption - increased water consumption -reduction in weight gain	Regularly make the animals drink water
Accommodation	S	Deterioration of shelter	Low risk	Destruction of shelter	Properly renovate shelter with durable material

Poultry production basin: all national territory

Influenced livestock parameter	zone	Risk due to weather conditions	Risk level	Probable impacts	Recommendations
Health	All	Light to moderate stress	Low risk	-Reduction in intake.	-increase ventilation in the buildings
Accommodation	NW/AD/SW/S	Flooding	Medium risk	-Destruction of shelter -drowning of poultry in flood	Clean drains around the buildings

 No risk

 Low risk

 Medium risk

 High risk