



DEPARTMENT OF TRANSPORT  
MINISTRY OF TRANSPORT

# WEATHER ASSISTANCE BULLETIN TO ANIMAL HUSBANDRY

VALIDITY : 01 to 10  
June 2024



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N°16/2024

## 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 first dekad of June 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 80 mm are likely to shower the South-West, North-west, Littoral, South and Adamawa regions. However, moderate accumulations between 80 and 50 mm are likely to be recorded in the Center, East, South and Adamawa regions. Furthermore, low accumulations of less than 50 mm are likely to be recorded in the North and Far-North.
- ◆ The first dekad of June will be marked by slightly cool weather in most part of the territory. The highest maximum temperatures, varying between 35 and 40°C, are likely to be recorded in the Far-North and North. 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, North-West 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 third dekad of May 2024

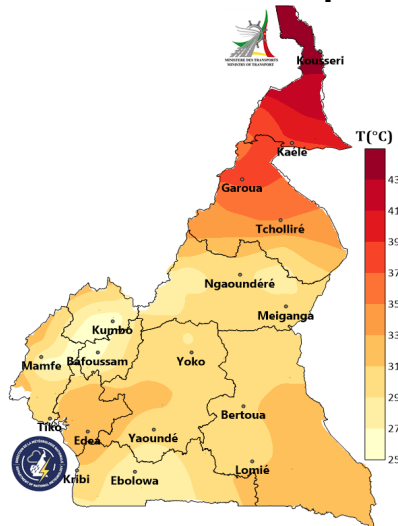


Fig1: average maximum temperature  
Source : IRI

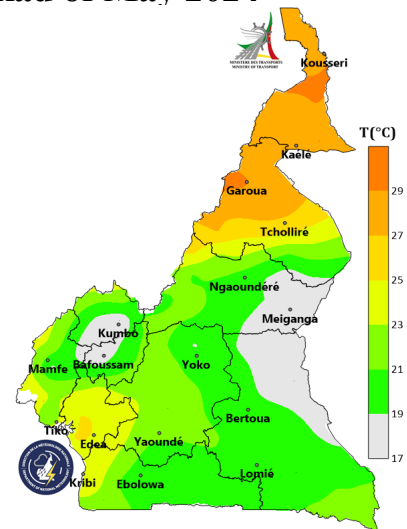


Fig2: average minimum temperature  
Source : IRI

The third dekad 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 39°C were recorded in some localities of the Far-North and North regions.

# II. FORECAST FOR THE FIRST DEKAD OF JUNE 2024

## 1. Temperature forecast for the first dekad of June 2024

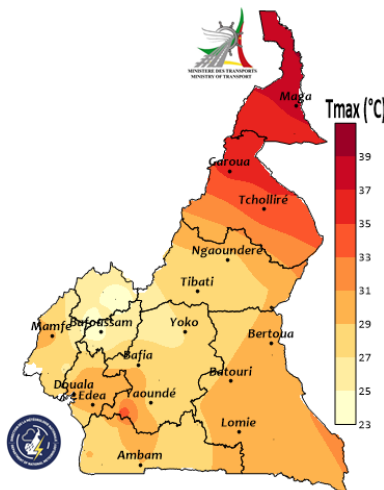


Fig3: average maximum temperature  
Source : DMN

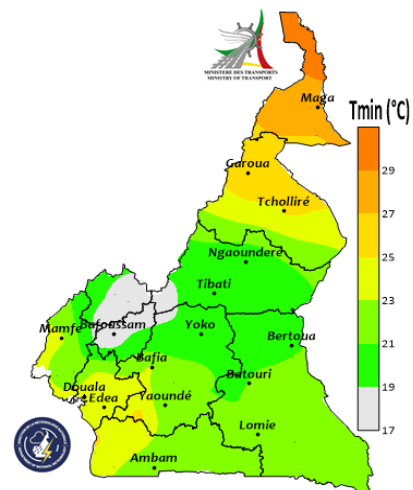


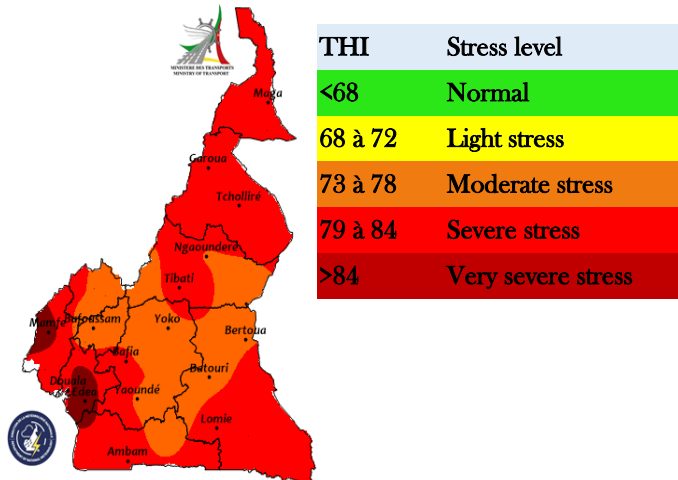
Fig4: average minimum temperature  
Source : DMN

The first dekad of June will be marked by slightly cool weather in most part of the territory. The highest maximum temperatures, varying between 35 and 40°C, are likely to be recorded in the Far-North and North. However, the lowest temperatures, below 21°C, are likely to be recorded in parts of the North-West, West, Centre, East and Adamawa regions.

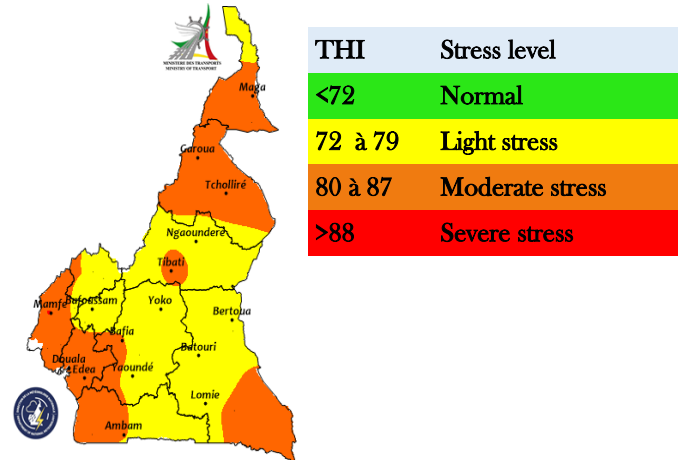
## II. FORECAST FOR THE THIRD DEKAD OF MAY 2024

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

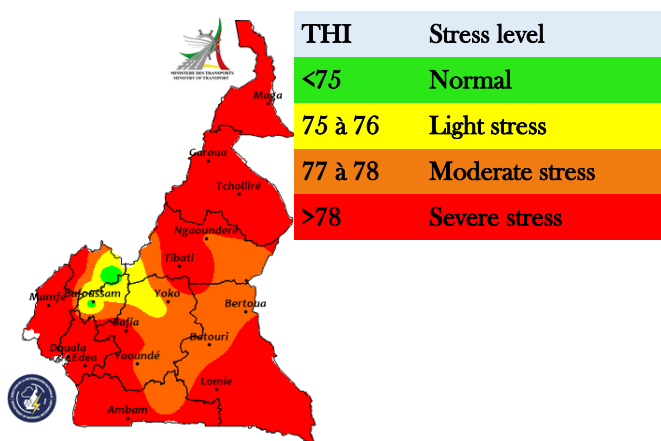
#### i. For cattle



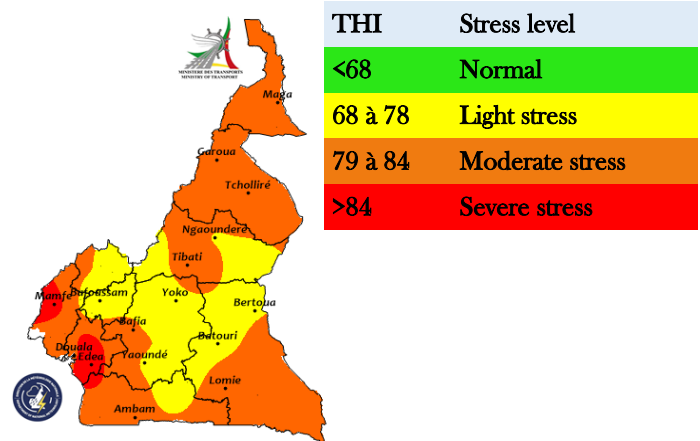
#### ii. For poultry



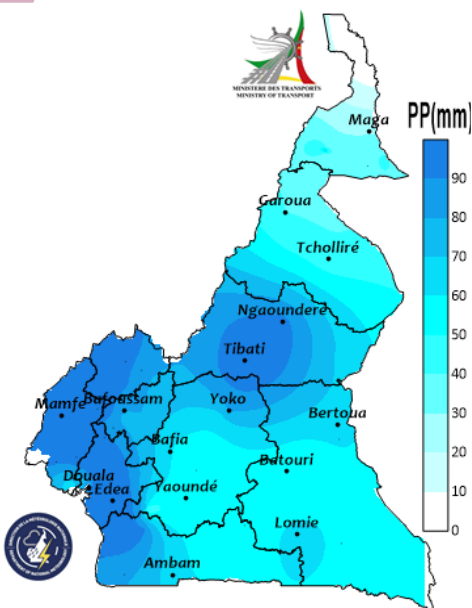
#### iii. For fattening pigs



#### iv. For breeding sows



### 3. Rainfall forecast for the third dekad of May 2024



The first dekad of June 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 **80 mm** are likely to shower the **South-West, North-west, Littoral, South and Adamawa** regions. However, moderate accumulations between **80 and 50 mm** are likely to be recorded in the **Center, East, south and Adamawa** regions. Furthermore, low accumulations of less than **50 mm** are likely to be recorded in the **North and Far-North**.

Fig6: dekadal rainfall cumulation (mm)

### 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/NO	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/LT/NO/SO	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; -Decrease in egg production.	-increase ventilation in the buildings -regularly make the animals drink water.
Accommodation	NW/AD/SW/LT	Flooding .	Medium risk	-Destruction of shelter; -drowning of poultry in flood areas.	Clean drains around the buildings.

 No risk

 Low risk

 Medium risk

 High risk