

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

N° 14/2024

Validity: 11 to 20
May 2024

Saturday, 11th of
May 2024

WEATHER ASSISTANCE BULLETIN TO
ANIMAL HUSBANDRY



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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 second decade of May will be marked by a gradual onset of the rainy season in the North region. Moreover, heavy rainfall accumulations greater than or equal to 100 mm are likely to shower the South-West, South, West and Adamawa regions. However, moderate accumulations between 100 and 50mm are likely to be recorded in the Center, East, Littoral and North-West regions. Furthermore, low accumulations of less than 50 mm are likely to be recorded in the North. However, a scarcity of rains is awaited in the localities of Yoko, Yokadouma, Mangoum, Yabassi, Douala Nkongsamba and Tiko.
- ◆ The second decade of May will be marked by slightly cool weather in most part of the territory. The highest maximum temperatures, varying between 36 and 44°C, are likely to be recorded in the Far-North, the North and part of the Center regions. However, the lowest temperatures, below 20°C, are likely to be recorded in parts of the North-West, West and Adamaoua 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 and North 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

Rainfall analysis for the first dekad of May 2024

This decade was marked by the return of rains in parts of the North region. Moreover, light to moderate rains watered the rest of the territory, with the locality of Monatelé recording the highest accumulation of about 83 mm in three (03) rainy days.

Temperature analysis for the first dekad of May 2024

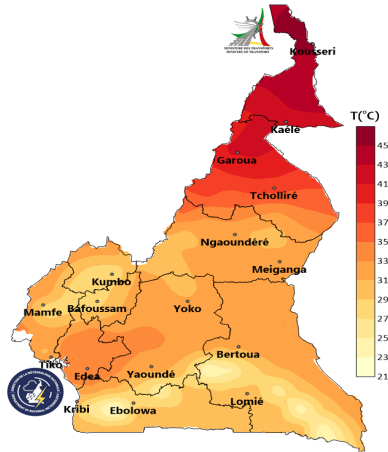


Fig1: average maximum temperature
Source : IRI

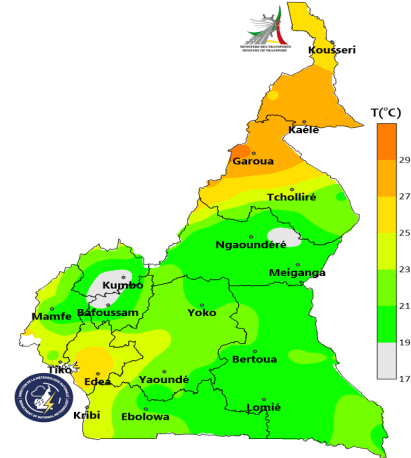


Fig2: average minimum temperature
Source : IRI

The first 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 37°C were recorded in some localities of the Far-North and North regions.

II. FORECAST FOR THE SECOND DEKAD OF MAY 2024

Temperature forecast for the second dekad of May 2024

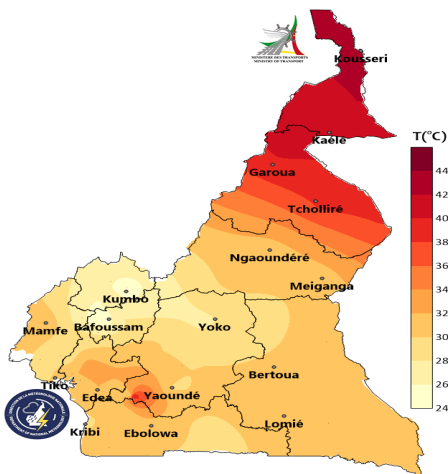


Fig3: average maximum temperature
Source : DMN

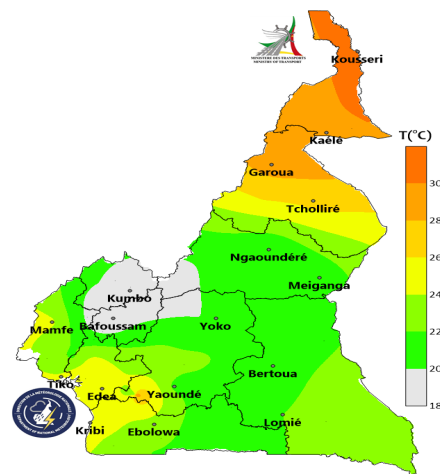


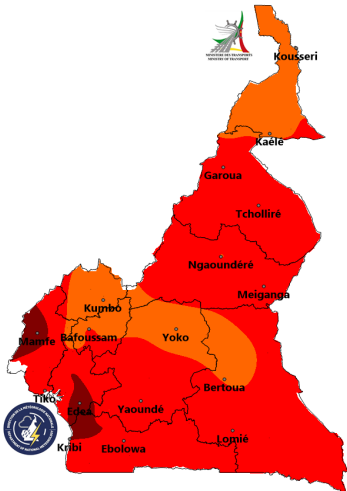
Fig4: average minimum temperature
Source : DMN

The second decade of May will be marked by slightly cool weather in most part of the territory. The highest maximum temperatures, varying between 36 and 44°C, are likely to be recorded in the Far-North, the North and part of the Center regions. However, the lowest temperatures, below 20°C, are likely to be recorded in parts of the North-West, West and Adamaoua regions.

II. FORECAST FOR THE SECOND DEKAD OF MAY 2024

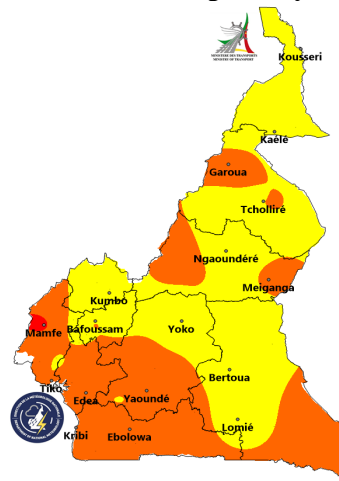
Thermal stress forecast : Temperature – Humidity Index (THI)

i. For cattle



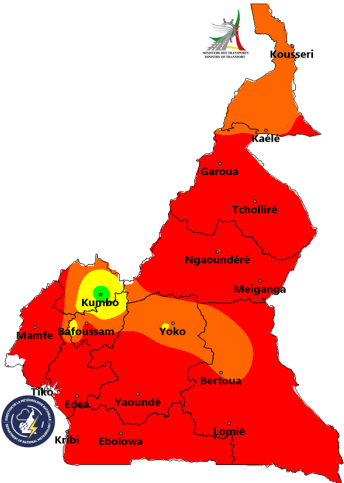
THI	Stress level
<68	Normal
68 à 72	Light stress
73 à 78	Moderate stress
79 à 84	Severe stress
>84	Very severe stress

ii. For poultry



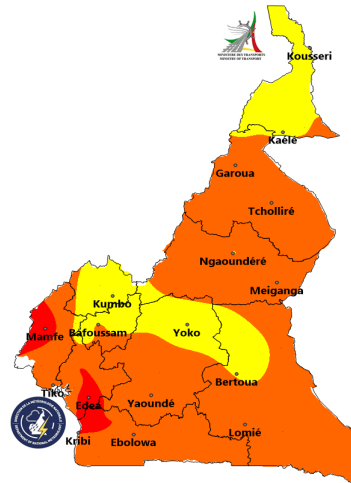
THI	Stress level
<72	Normal
72 à 79	Light stress
80 à 87	Moderate stress
>88	Severe stress

iii. For fattening pigs



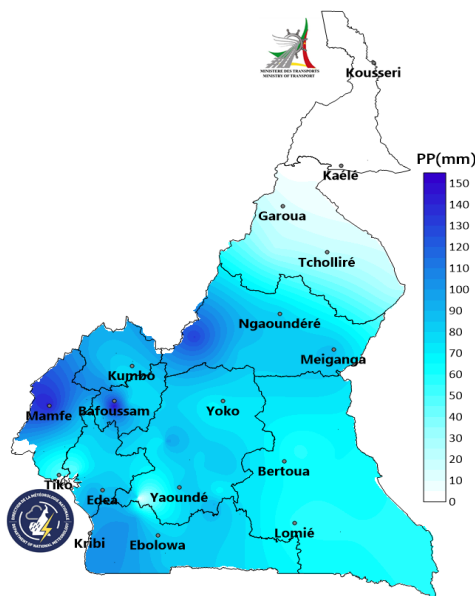
THI	Stress level
<75	Normal
75 à 76	Light stress
77 à 78	Moderate stress
>78	Severe stress

iv. For breeding sows



THI	Stress level
<68	Normal
68 à 78	Light stress
79 à 84	Moderate stress
>84	Severe stress

Rainfall forecast for the second dekad of May 2024



The second decade of May will be marked by a gradual onset of the rainy season in the North region.

Moreover, heavy rainfall accumulations greater than or equal to 100 mm are likely to shower the **South-West, South, West and Adama-wa** regions. However, moderate accumulations between 100 and 50mm are likely to be recorded in the **Center, East, Littoral and North-West** regions. Furthermore, low accumulations of less than 50 mm are likely to be recorded in the North. However, a scarcity of rains is awaited in the localities of **Yoko, Yokadouma, Mangoum, Yabassi, Douala Nkongsamba and Tiko**.

Fig6: dekadal rainfall cumulation (mm)

Source : DMN

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	FN/N	Moderate to severe stress		-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 ani-
Accommodation	AD	Deterioration of shelter		Destruction of shelter	Properly renovate shelter with durable material
Nutrition	FN/N	-drying out of forage crops -drying of water ponds		-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		-decrease in food consumption - increased water consumption -reduction in weight gain	Regularly make the animals drink water
Accommodation	SW/S/W	Deterioration of shelter		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	Tous	Light to moderate stress		-Reduction in intake. -Decrease in egg production.	-increase ventilation in the buildings -regularly make the animals drink water
Accommodation	SW/S/W	Flooding		-Destruction of shelter -drowning of poultry in flood areas	Clean drains around the buildings

 Pas de risque

 Risque faible

 Risque moyen

 Risque élevé