

AGROMETEOROLOGICAL BULLETIN

Doc No: TEA 3/3/7/2 F-004

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Approved by:



**REPORTING PERIOD:
01 – 10 NOVEMBER 2024**



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HIGHLIGHTS

- **Below Normal rainfall observed...**
- **Fair vegetation condition...**
- **Land preparation and planting activities...**
- **Decrease in rainfall is anticipated...**
- **Warm to hot temperatures forecasted...**
- **Decrease in soil moisture expected...**

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RAINFALL AND TEMPERATURES

RAINFALL

Below Normal rainfall was observed in the 1st dekad of November 2024 (Figure 1), mostly in the southern parts of the country (Map 1).

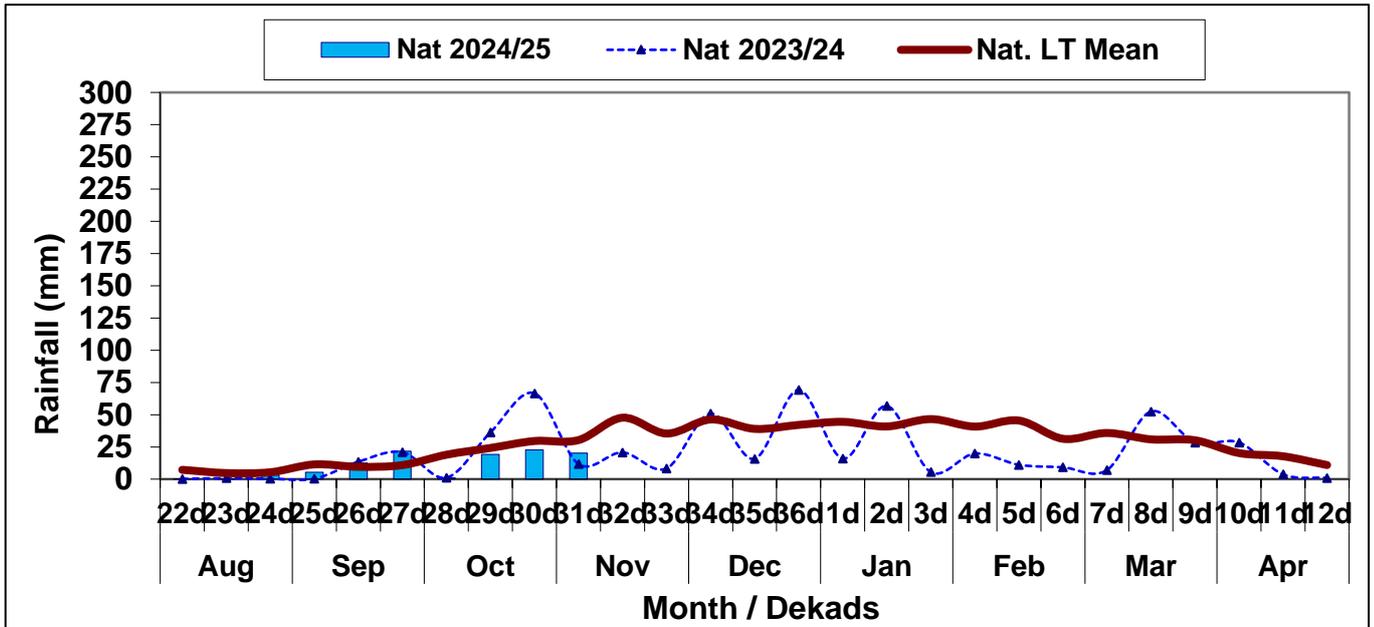
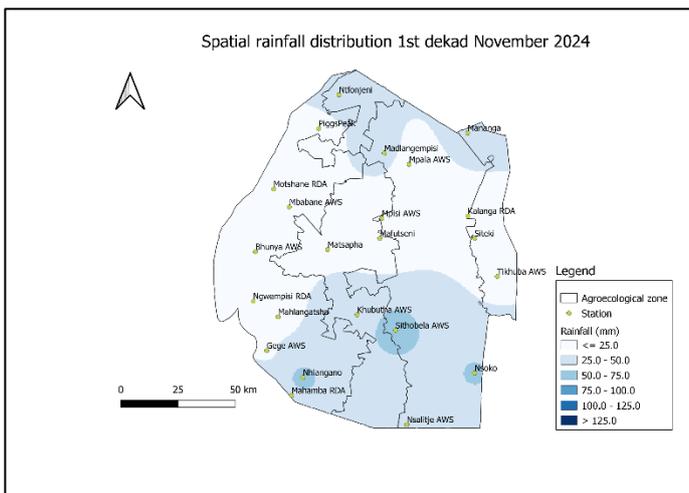
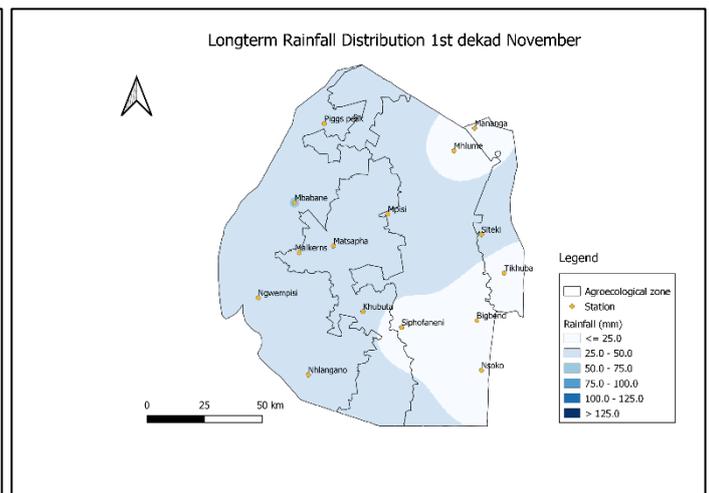


Figure 1: Rainfall distribution 1st dekad November 2024



Map 1: Spatial rainfall distribution 1st dekad November 2024



Map 2: Longterm Rainfall Distribution 1st dekad November

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Swaziland Meteorological Service, Ministry of Tourism and Environmental Affairs.

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The Highveld and Middleveld receive Below Normal rainfall, while the Lowveld and Lubombo plateau received Normal rainfall (**Table 1**).

Table 1: Rainfall (mm) 1st dekad November 2024

	HV	MV	LV	LP
2023/24	14.2	8.2	12.5	11.5
Average	41.3	33.3	21.3	24.7
2024/25	17.5	18.7	25.7	18.9
Anomaly	-23.8	-14.5	4.4	-5.9

TEMPERATURES

High temperatures were observed during the reporting period, with a 3 days heat wave of temperatures exceeding 30°C in the Highveld and 40°C in the Lowveld (**Figure 2**).

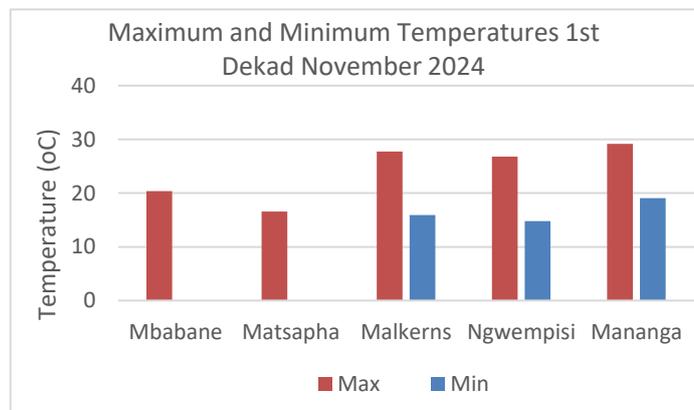


Figure 2: Maximum and Minimum temperatures 1st dekad of November 2024

MAIZE AND OTHER CROPS

CURRENT FARMING ACTIVITY

Most farmers have commenced land preparation and planting.

OTHER CROPS

No other crops have been reported to have been planted.

MAIZE CROP STAGE AND CONDITION

Farmers have planted maize, mostly in the Highveld and Middleveld and is reported to be in good condition.

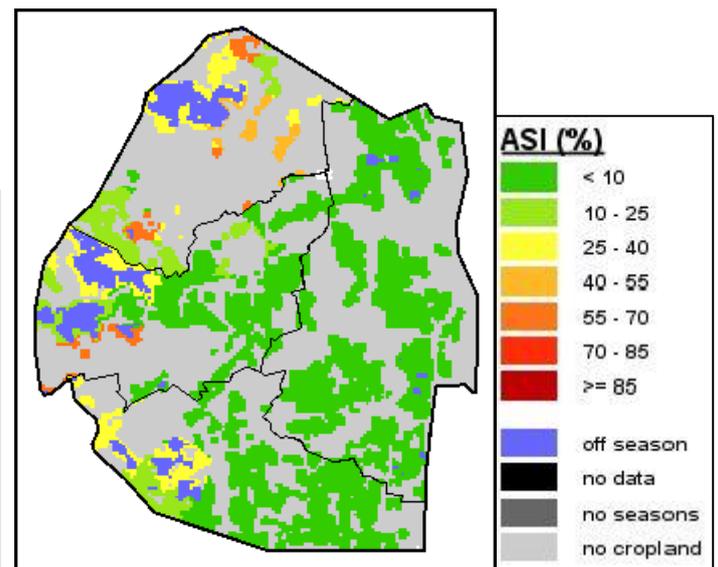


Image 1: Agriculture Stress Index 1st dekad November 2024

Source: FAO-GIEWS

LIVESTOCK AND PASTURES

Livestock is in fair to good condition as rangelands continue to improve.

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WATER SITUATION

The dams in the country are showing a slightly decrease as compared to last week, only Mnjoli dam is showing a slight improvement in water storage. Lubovane, Mnjoli and Maguga dam are atleast above 70% of their storage capacities, at 79%, 74% and 72 % respectively. While Hawane dam is at 45% and Luphohlo dam at 33%.

If rains improve, the dams storage capacities are anticipated to increase. The nation is urged to continue conserving water.

Table 2: Dam storage capacity as at 11th November 2024

Name of Dam	River	Full Supply Storage Million Cubic meters	Percentage Storage (%) 11 th Nov, 2024
Mnjoli	Black Mbuluzi	177	74.54
Lubovane	Great Usuthu	155	79.06
Maguga	Komati	332	72.90
Hawane	Black Mbuluzi	2.75	45.00
Luphohlo	Lusushwana	23.6	33.20

MEDIUM-TERM OUTLOOK

RAINFALL

Decrease in rainfall is expected in the outlook period.

TEMPERATURE

Warm to hot temperatures are anticipated in the outlook period.

SOIL MOISTURE

A decrease in soil moisture is expected in the outlook period.

WIND SPEED

Wind will generally be light to moderate in the outlook period

NB: Outlook period is ten days from date of issue

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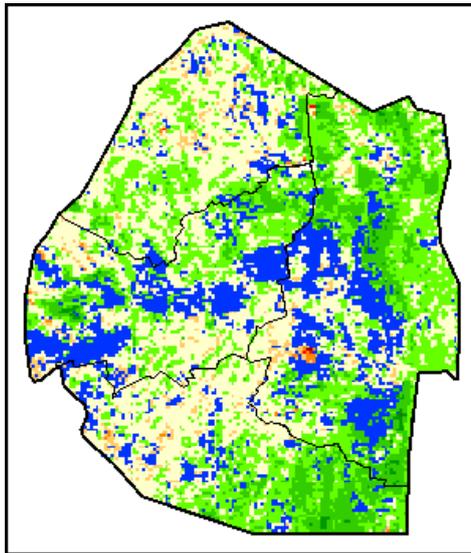
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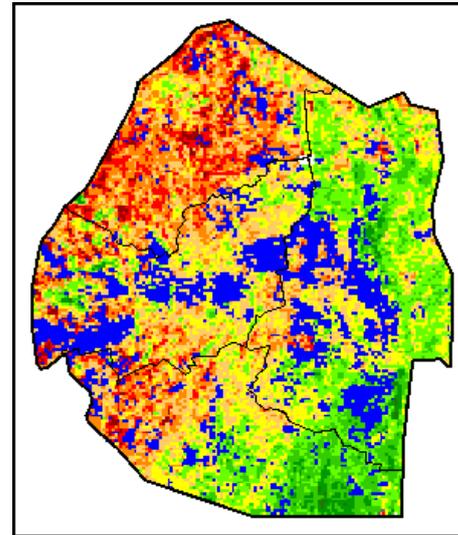
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Legend

Difference to LTA



Legend

VHI

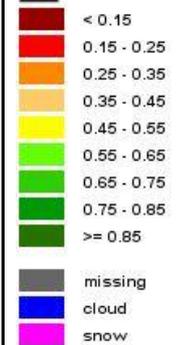


Image 2: Normalized Difference Vegetation Index (NDVI) Anomaly (1st Dekad November 2024)
Source: FAO-GIEWS

Image 3: Vegetation Health Index (VHI) (1st Dekad November 2024)
Source: FAO-GIEWS