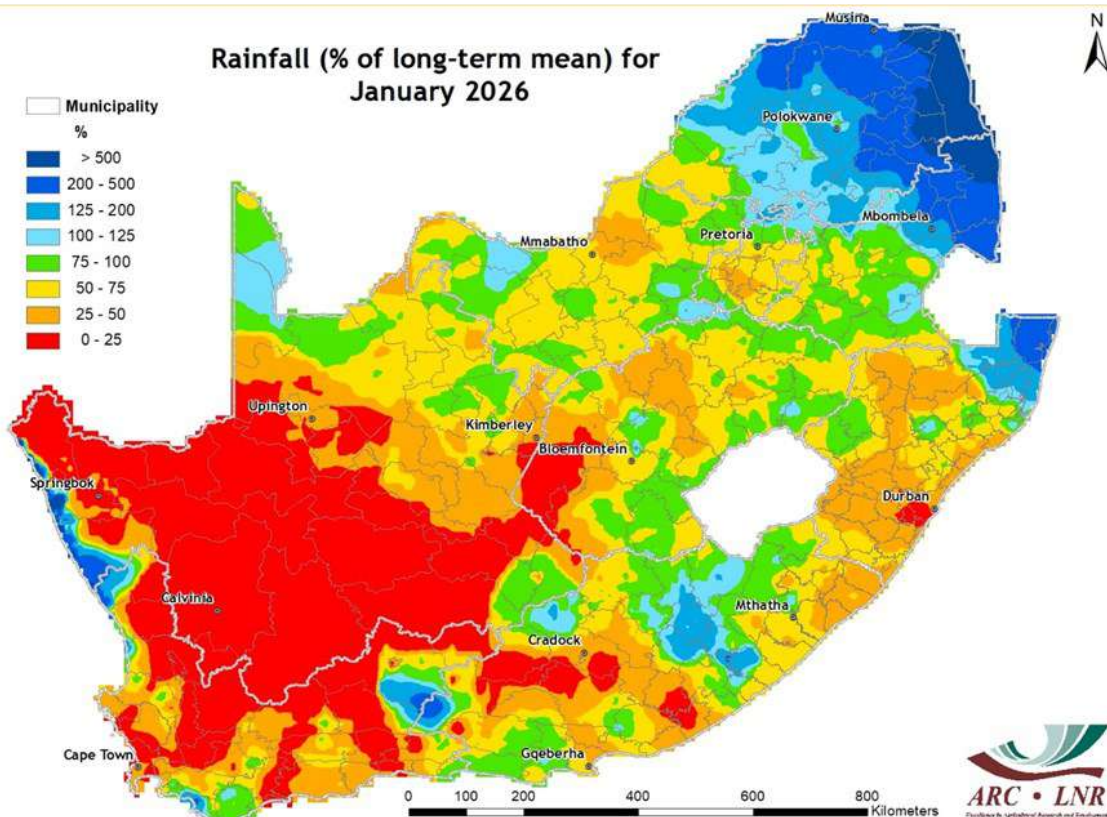


Image of the Month

Heavy mid-summer rains over northeastern South Africa

January 2026 brought above-normal rainfall to Limpopo and Mpumalanga (see map below), driven by persistent moisture inflow from the northeast and repeated low pressure systems. From 10-13 January, multi-day rain events produced accumulated totals of between 50 and 100 mm across much of the region, with isolated areas exceeding 150-200 mm, particularly around Graskop, Makhado, Giyani and parts of the Lowveld. In response, the South African Weather Service (SAWS) issued Orange Level 6 and 9 warnings, followed by a rare Red Level 10 warning, highlighting the risk of flooding, fast-flowing rivers and severe disruption to infrastructure, mostly in and around protected areas such as the Kruger National Park. This sustained rainfall caused rapid soil saturation and rising river and dam levels. Agricultural losses were also reported as waterlogged fields and fast-flowing streams disrupted farm operations. Localized flooding affected low-lying communities, while farm roads, bridges and storage facilities were damaged, restricting access to several rural areas. By late January the rainfall intensity had decreased but the affected northeastern provinces remained wetter than normal, further highlighting the need for continued hydrological monitoring, flood preparedness and recovery efforts for agriculture and infrastructure.



NATURAL RESOURCES AND ENGINEERING
Soil, Climate and Water

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260th Edition

Overview:

Rainfall at the start of 2026 displayed pronounced spatial variability across South Africa, reflecting a marked contrast between an active summer rainfall region and a persistently dry winter rainfall region. The north-eastern parts of the country experienced significantly above-normal rainfall, with anomalies in some areas exceeding 200-300% of the long-term mean for January. Monthly totals across the interior and eastern provinces generally ranged between 50 and over 200 mm, with many locations surpassing their long-term January averages.

During the first week of January 2026, scattered to widespread thunderstorms developed over Limpopo, Mpumalanga, Gauteng and parts of KwaZulu-Natal. These events initiated a sequence of rainfall episodes that limited inter-event drying and progressively increased soil moisture. Rainfall activity intensified during the second week over the northeastern provinces, and by mid-month (15-18 January), cumulative heavy rainfall had resulted in elevated river levels in several catchments in Limpopo and Mpumalanga, with localized flooding reported in low-lying areas and along major drainage lines. In contrast, much of the Northern Cape, western Free State and the winter rainfall region of the Western Cape remained comparatively dry, while isolated rainfall occurred along the southern Cape coast later in the month.

1. Rainfall

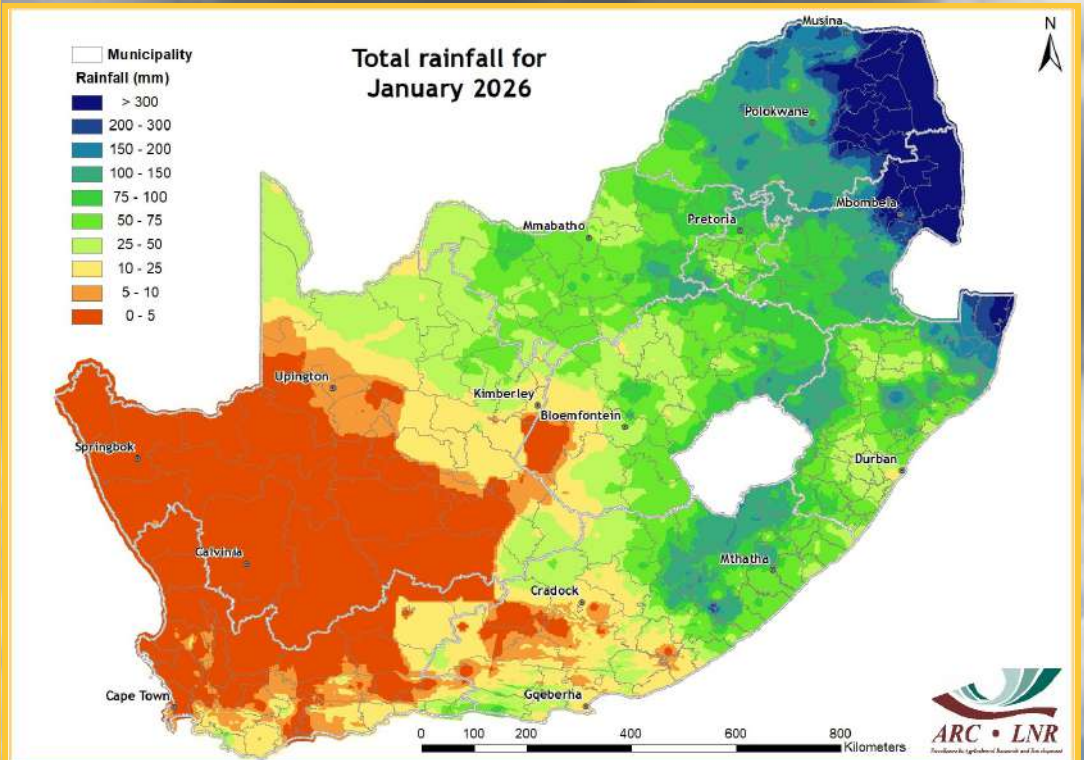


Figure 1

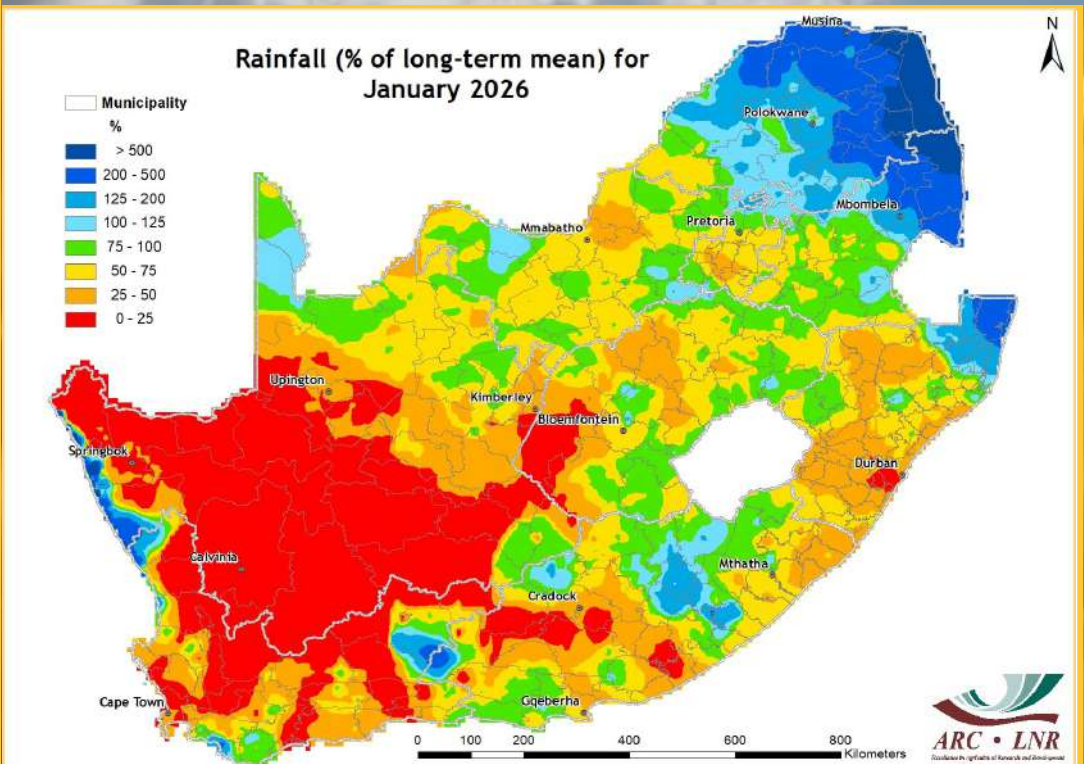


Figure 2

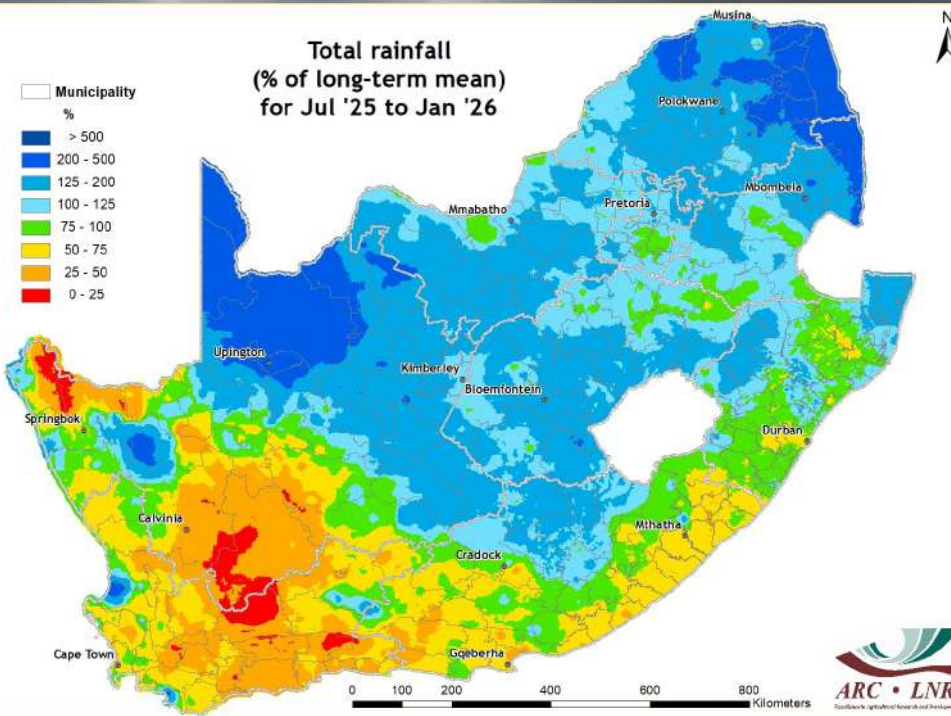


Figure 3

Figure 1:

Rainfall totals ranged between 50 and 200 mm across the interior and eastern parts of the country during January 2026. Isolated areas in Limpopo, Mpumalanga, Gauteng and parts of KwaZulu-Natal exceeded 200 mm for the month. Meanwhile, the western interior, including much of the Northern Cape and the winter rainfall region of the Western Cape, recorded generally low rainfall totals, mostly below 25-50 mm.

Figure 2:

Rainfall in January was above normal across large parts of the northeastern and central summer rainfall region, with some areas receiving more than double their typical monthly totals. The eastern interior and parts of the Highveld experienced predominantly above-normal conditions. In contrast, the western interior and the winter rainfall region of the Western Cape recorded near- to below-normal rainfall.

Figure 3:

The period from July 2025 to January 2026 recorded near- to above-normal rainfall for the central to northern interior. Areas that recorded below-normal conditions include parts of the Cape provinces.

Figure 4:

The period from November 2025 to January 2026 was wetter than the corresponding 3-month period of the previous season (2024/25) in most parts of the central interior, as well as the Lowveld of Limpopo and Mpumalanga. However, parts of the south-eastern and eastern coastline, moving towards the Highveld and western parts of Limpopo, recorded notably lower totals, with deficits ranging from 100 to more than 200 mm during this period.

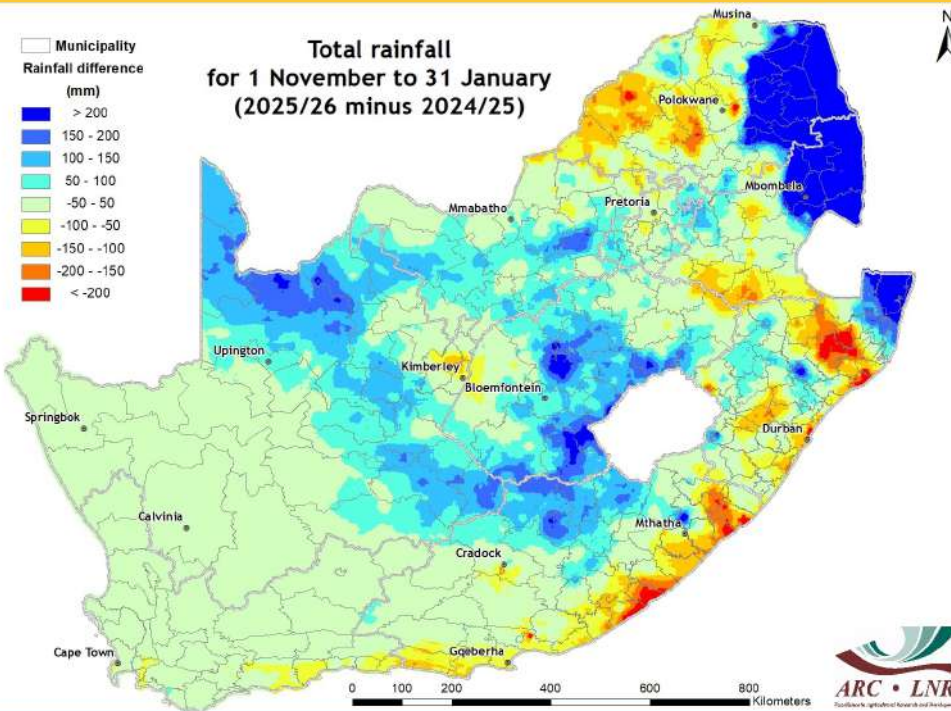


Figure 4

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2. Standardized Precipitation Index

Standardized Precipitation Index

The Standardized Precipitation Index (SPI - McKee *et al.*, 1993) was developed to monitor the occurrence of droughts from rainfall data. The index quantifies precipitation deficits on different time scales and therefore also drought severity. It provides an indication of rainfall conditions per quaternary catchment (in this case) based on the historical distribution of rainfall.

REFERENCE:

McKee TB, Doesken NJ and Kliest J (1993) The relationship of drought frequency and duration to time scales. In: Proceedings of the 8th Conference on Applied Climatology, 17-22 January, Anaheim, CA. American Meteorological Society: Boston, MA; 179-184.

The SPI maps revealing short-term (6-month), medium-term (12-month) and long-term (24- and 36-month) drought conditions ending in January 2026 are shown in Figures 5-8. The short-term SPI map indicates widespread near-normal conditions across most of the summer rainfall region, with extremely wet conditions observed in parts of the Northern Cape, Free State, Limpopo and Mpumalanga. In contrast, moderate to severe drought conditions observed in December 2025 developed into extreme drought conditions over the winter rainfall region, particularly across the Western Cape, extending into adjacent parts of the all-year rainfall region, including portions of the Eastern Cape. The medium-term SPI map indicates pronounced wet conditions over the northeastern parts, with drier conditions in the southwest. Meanwhile, the long-term maps show widespread near normal to wet conditions.

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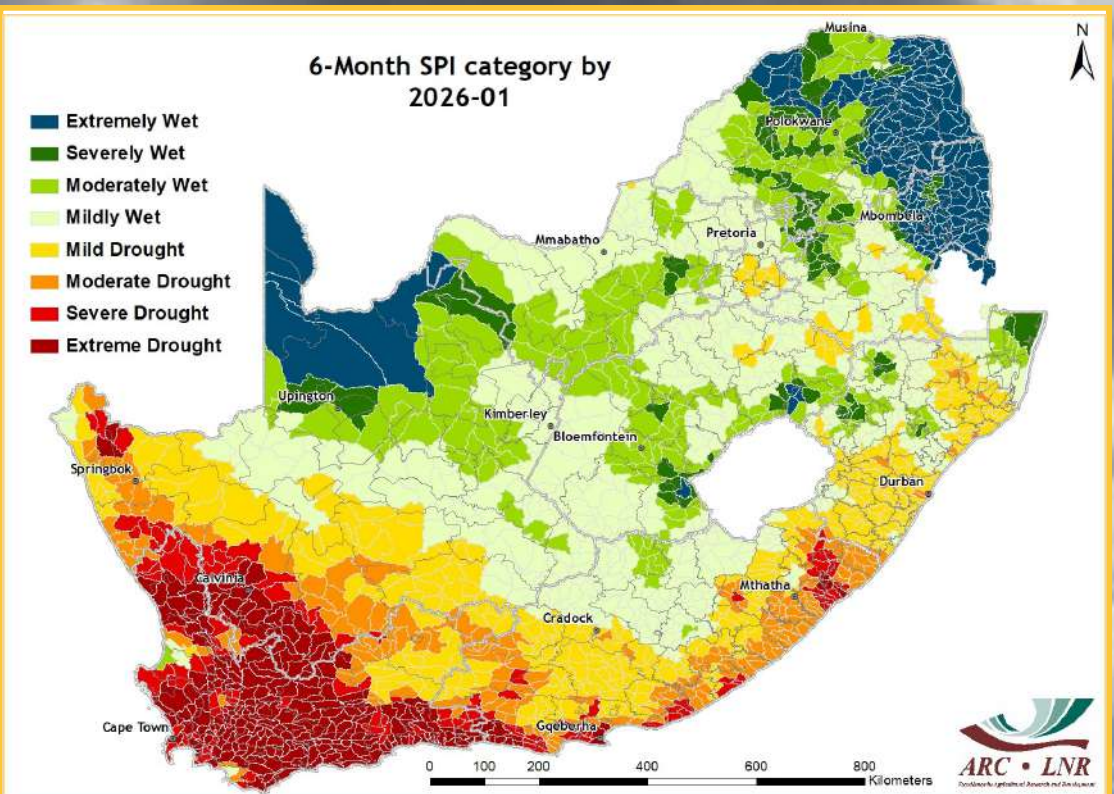


Figure 5

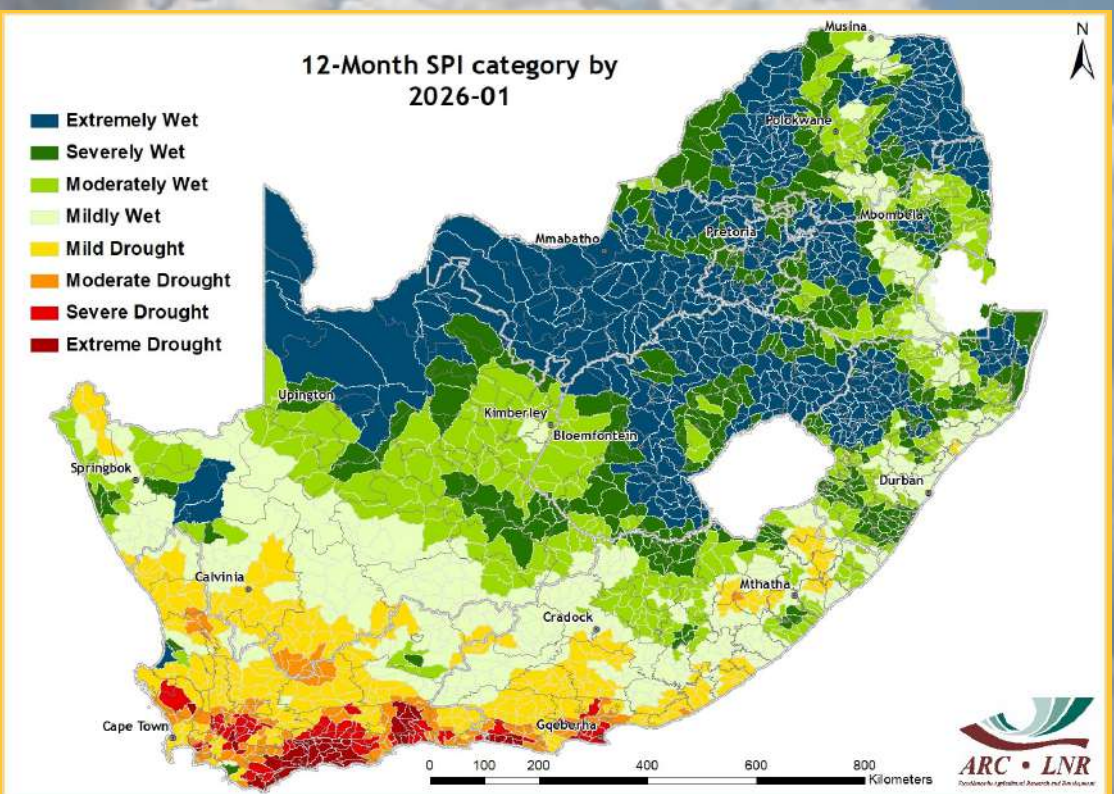


Figure 6

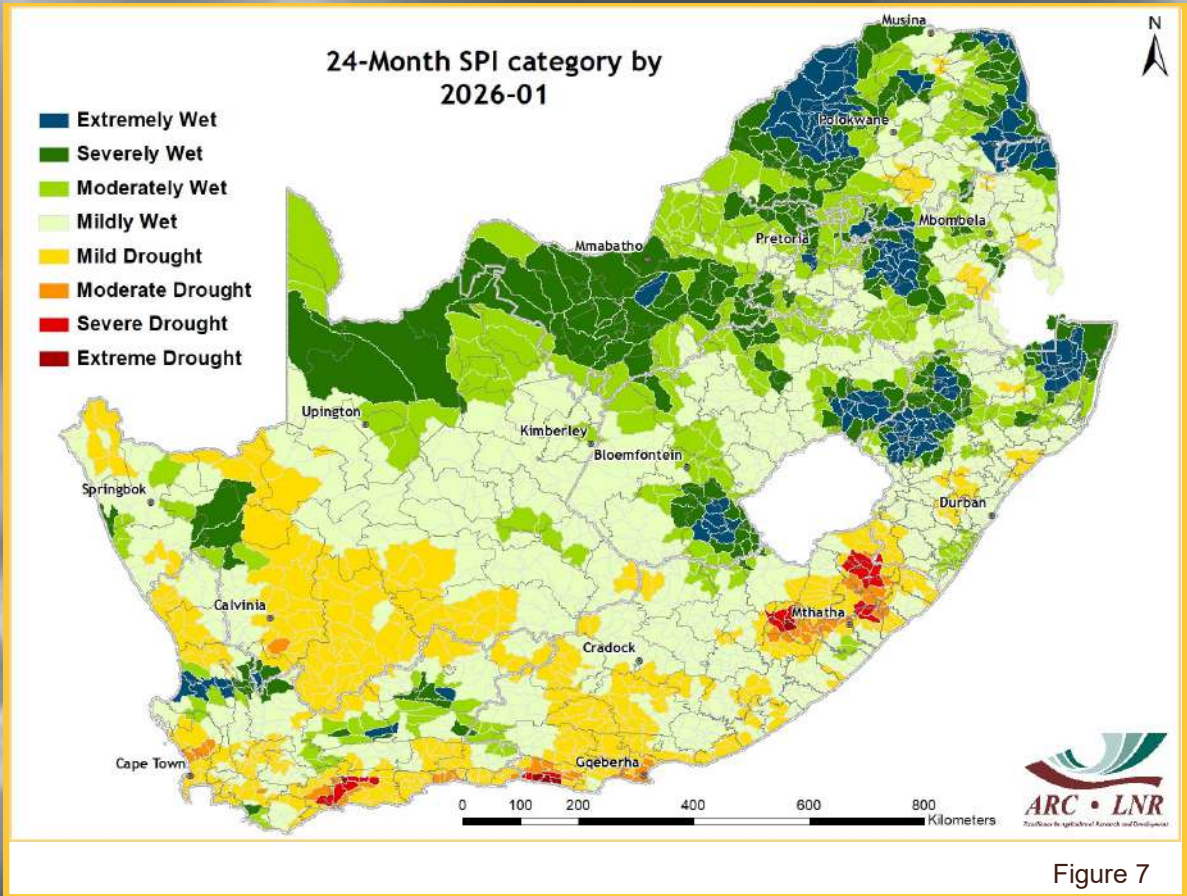


Figure 7

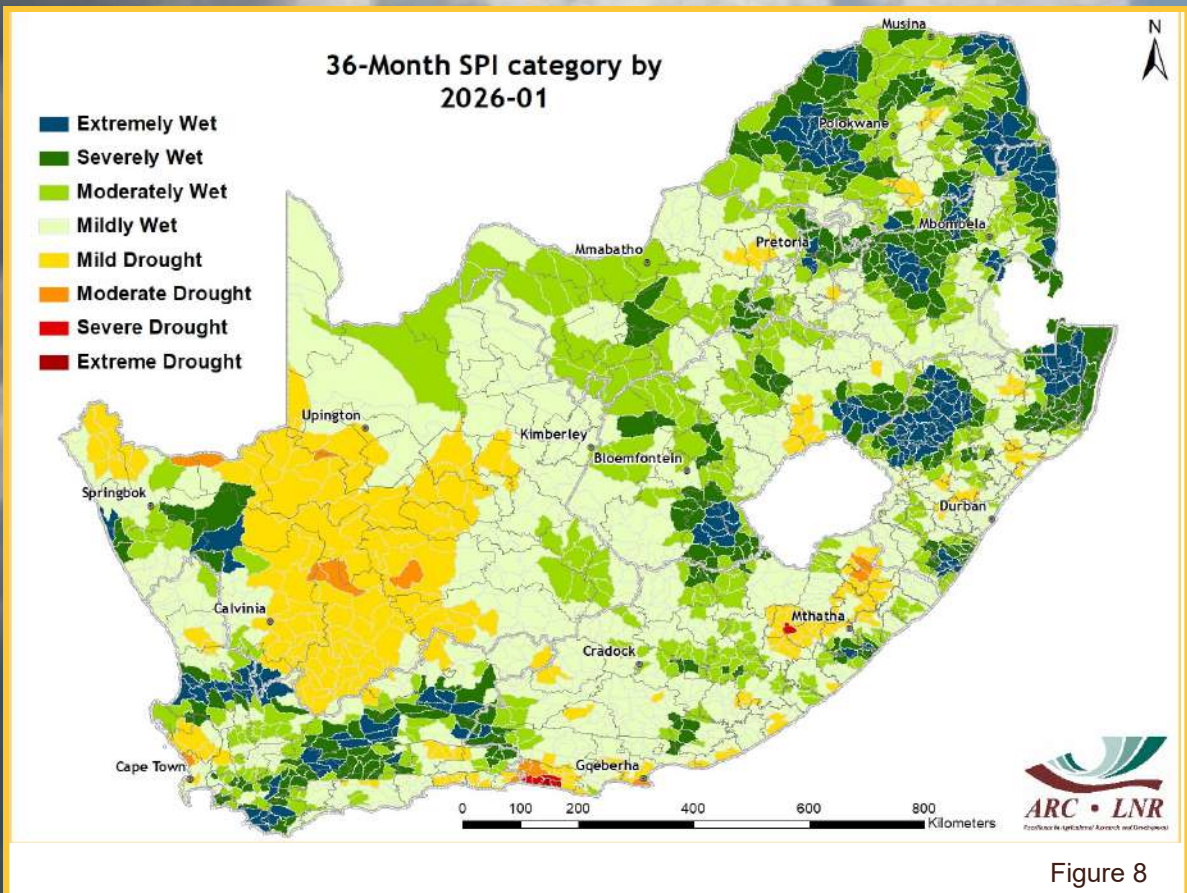


Figure 8

3. Rainfall Deciles

Deciles are used to express the ranking of rainfall for a specific period in terms of the historical time series. In the map, a value of 5 represents the median value for the time series. A value of 1 refers to the rainfall being as low or lower than experienced in the driest 10% of a particular month historically (even possibly the lowest on record for some areas), while a value of 10 represents rainfall as high as the value recorded only in the wettest 10% of the same period in the past (or even the highest on record). It therefore adds a measure of significance to the rainfall deviation.

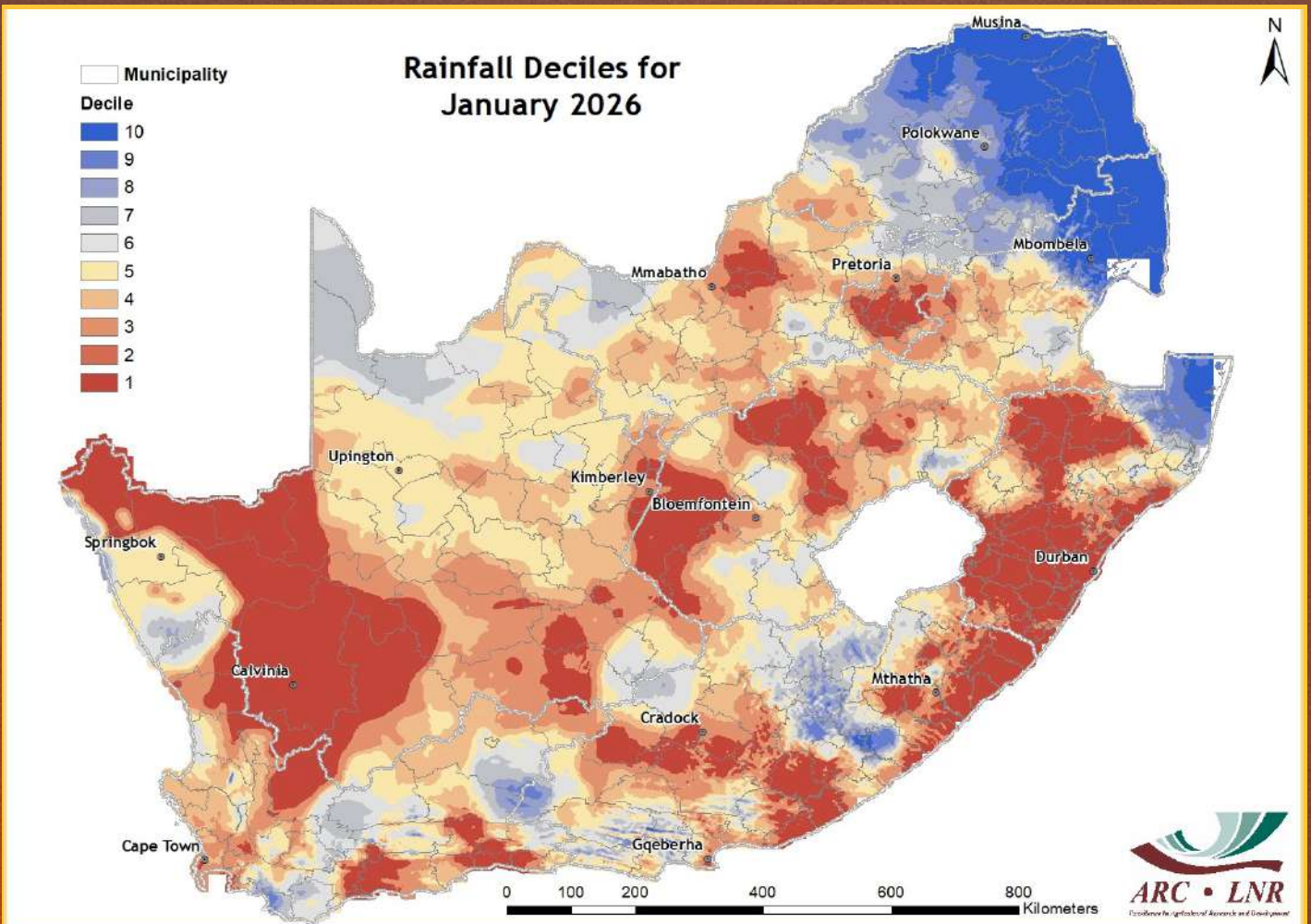


Figure 9

Figure 9:

Below-normal conditions dominated much of the central and western interior, including parts of the Northern Cape, Free State, North West and the Eastern Cape interior, during January 2026. In contrast, above-normal rainfall (Deciles 8-10) was concentrated over the northeastern region, particularly Limpopo and Mpumalanga, while KwaZulu-Natal and the southern Cape showed mixed conditions.

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Vegetation Mapping

The Normalized Difference Vegetation Index (NDVI) is computed from the equation:

$$NDVI = \frac{(IR - R)}{(IR + R)}$$

where:

IR = Infrared reflectance &
R = Red band

NDVI images describe the vegetation activity. A decadal NDVI image shows the highest possible "greenness" values that have been measured during a 10-day period.

Vegetated areas will generally yield high values because of their relatively high near infrared reflectance and low visible reflectance. For better interpretation and understanding of the NDVI images, a temporal image difference approach for change detection is used.

The Standardized Difference Vegetation Index (SDVI) is the standardized anomaly (according to the specific time of the year) of the NDVI.

4. Vegetation Conditions

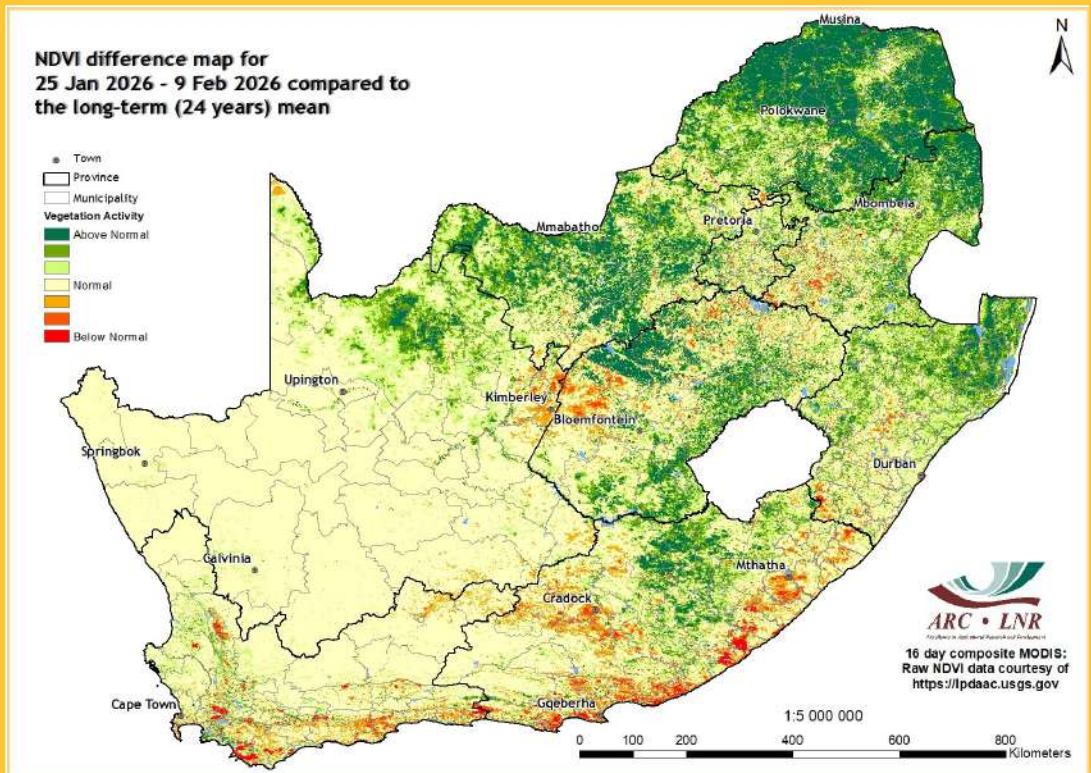


Figure 10

Figure 10:

Compared to the historical averaged vegetation conditions, the 16-day NDVI map for January 2026 shows above-normal conditions persisting in the eastern half of the country, while the western half experienced mostly normal vegetation. Patches of below-normal activity were observed in isolated areas of the country.

Figure 11:

The 16-day NDVI difference map for January 2026 compared to the preceding 16-day period shows that many parts of the country continue to experience a mix of vegetation conditions, particularly in the eastern half where below-normal, normal and above-normal activity were observed.

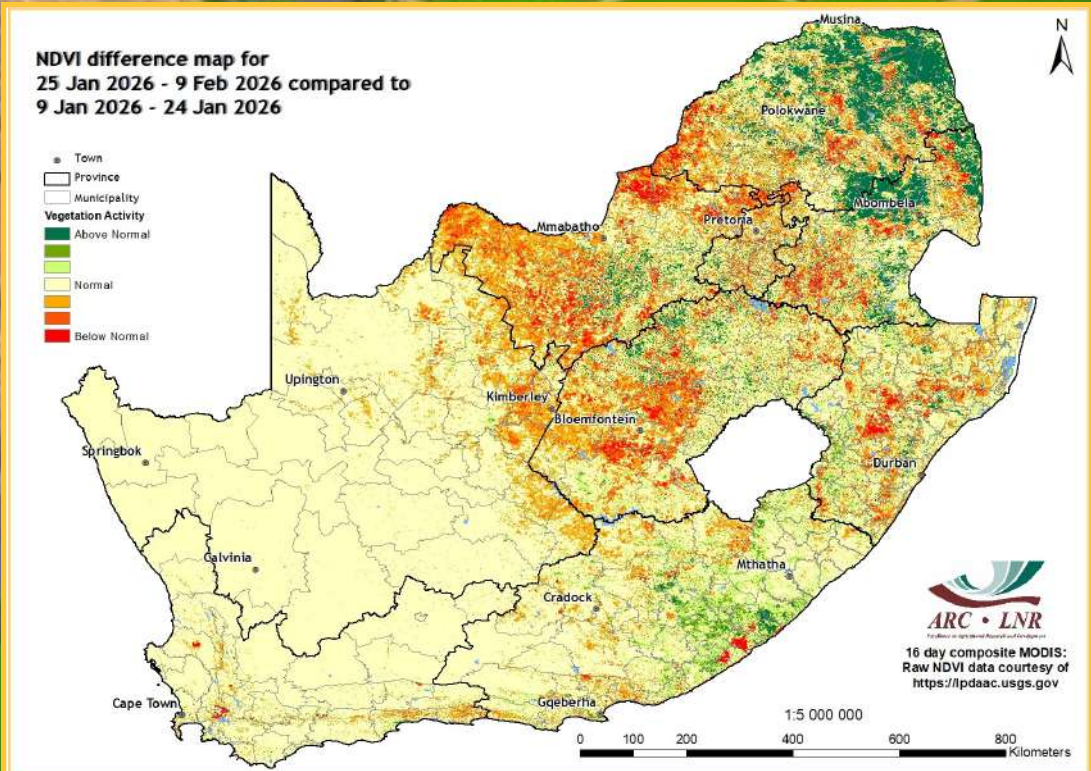


Figure 11

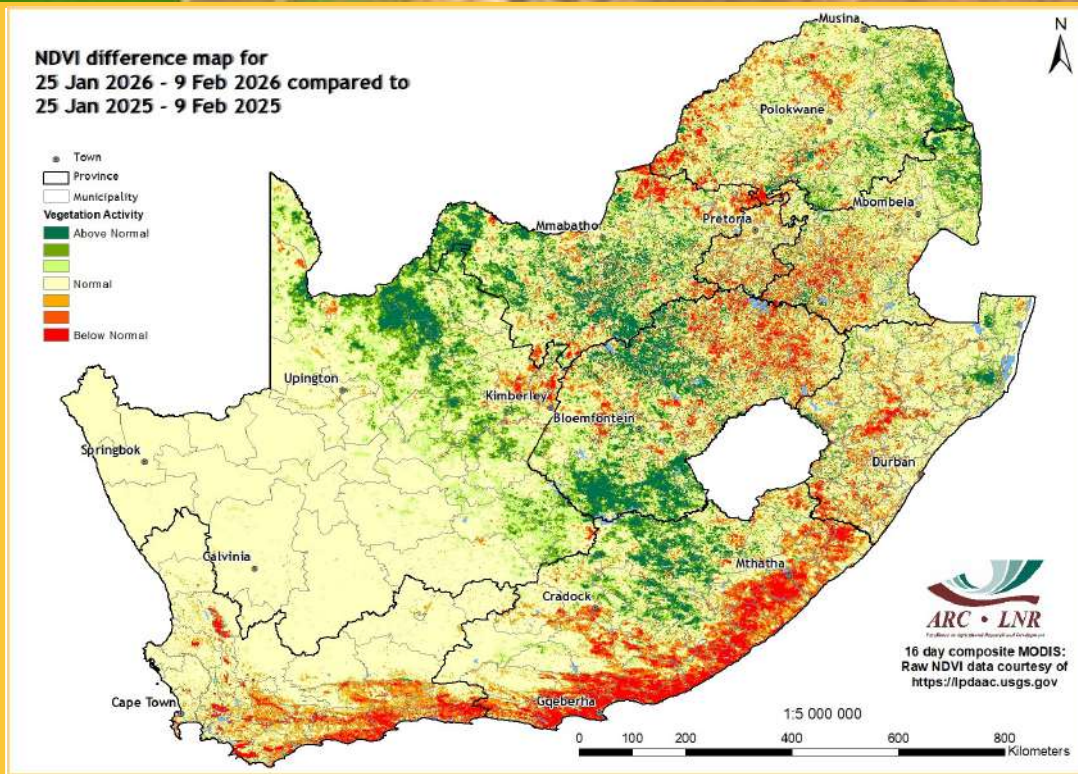


Figure 12

**Vegetation Mapping
(continued from p. 7)**

Interpretation of map legend

NDVI-based values range between 0 and 1. These values are incorporated in the legend of the difference maps, ranging from -1 (lower vegetation activity) to 1 (higher vegetation activity) with 0 indicating normal/the same vegetation activity or no significant difference between the images.

Cumulative NDVI maps:

Two cumulative NDVI datasets have been created for drought monitoring purposes:

Winter: January to December
Summer: July to June

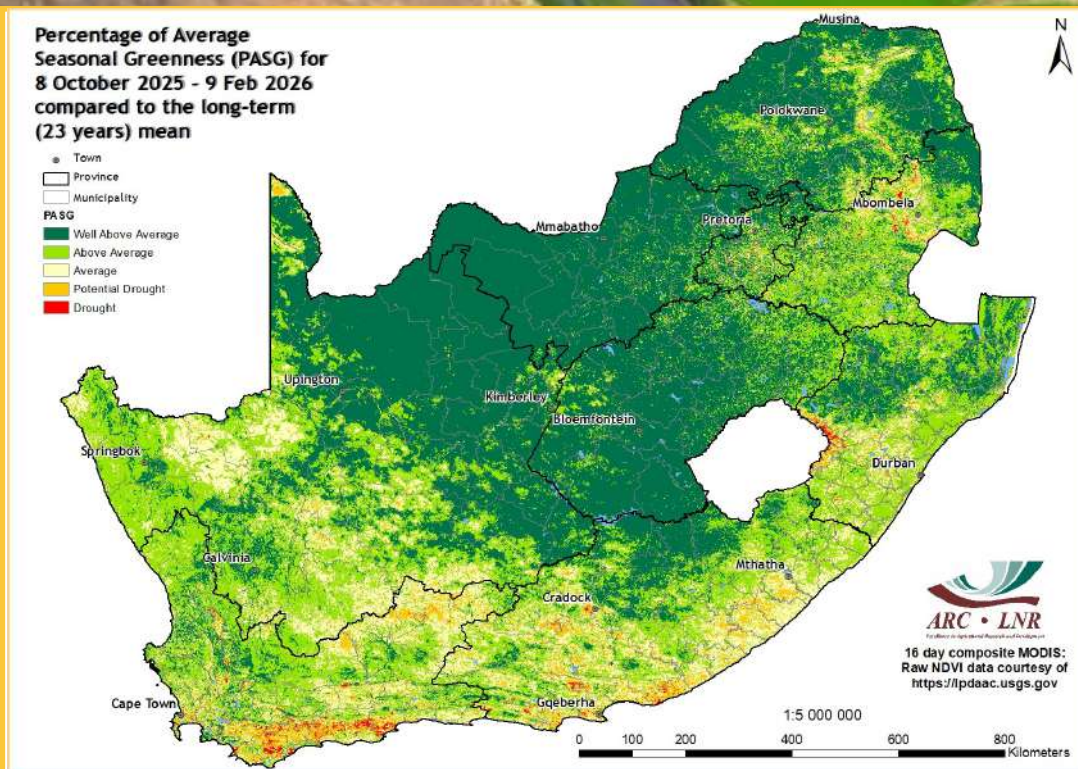


Figure 13

Figure 12:
 The 16-day NDVI difference map for January 2026 compared to the same period last year shows that the country experienced a mix of vegetation conditions.

Figure 13:
 The Percentage of Average Seasonal Greenness (PASG) map for the past 4 months shows that the central interior continued to experience above-average vegetation conditions, while the coastal areas experienced mostly average greenness.

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5. Vegetation Condition Index

Vegetation Condition Index (VCI)

The VCI is an indicator of the vigour of the vegetation cover as a function of the NDVI minimum and maximum encountered for a specific pixel and for a specific period, calculated over many years.

The VCI normalizes the NDVI according to its changeability over many years and results in a consistent index for various land cover types. It is an effort to split the short-term weather-related signal from the long-term climatological signal as reflected by the vegetation. The VCI is a better indicator of water stress than the NDVI.

Vegetation Condition Index (VCI) for 25 Jan 2026 - 9 Feb 2026 compared to the long-term (24 years) mean

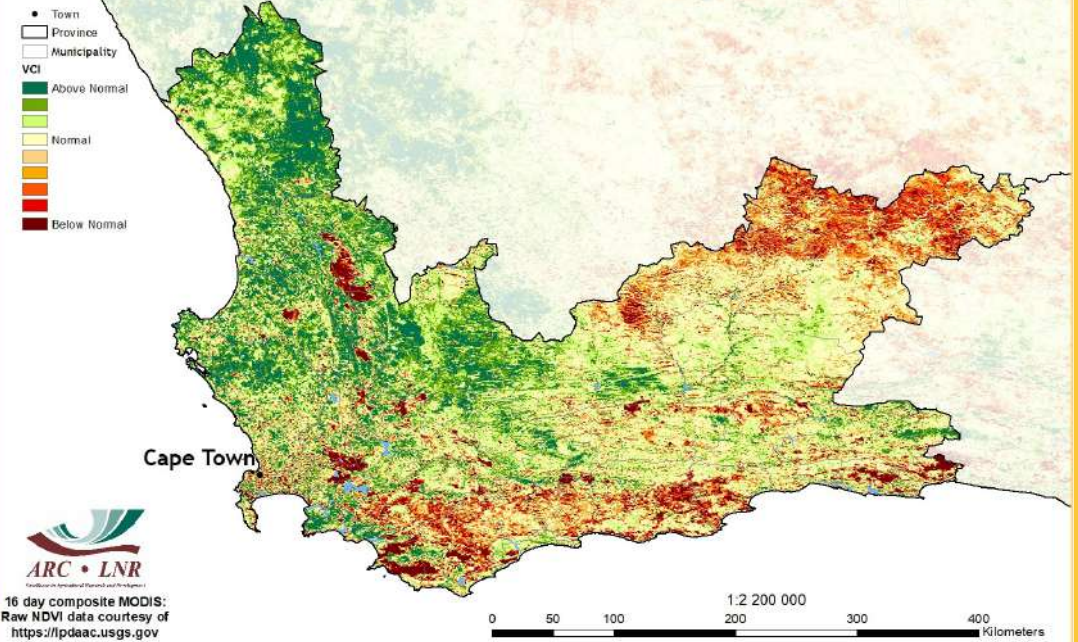


Figure 14

Figure 14:

The 16-day VCI map for January 2026 shows that the eastern half of the Western Cape continued to experience below-normal vegetation conditions while the western half experienced mostly above-normal activity.

Figure 15:

The 16-day VCI map for January 2026 shows that the Eastern Cape experienced mostly below-normal vegetation conditions with patches of above-normal activity in the central interior.

Vegetation Condition Index (VCI) for 25 Jan 2026 - 9 Feb 2026 compared to the long-term (24 years) mean

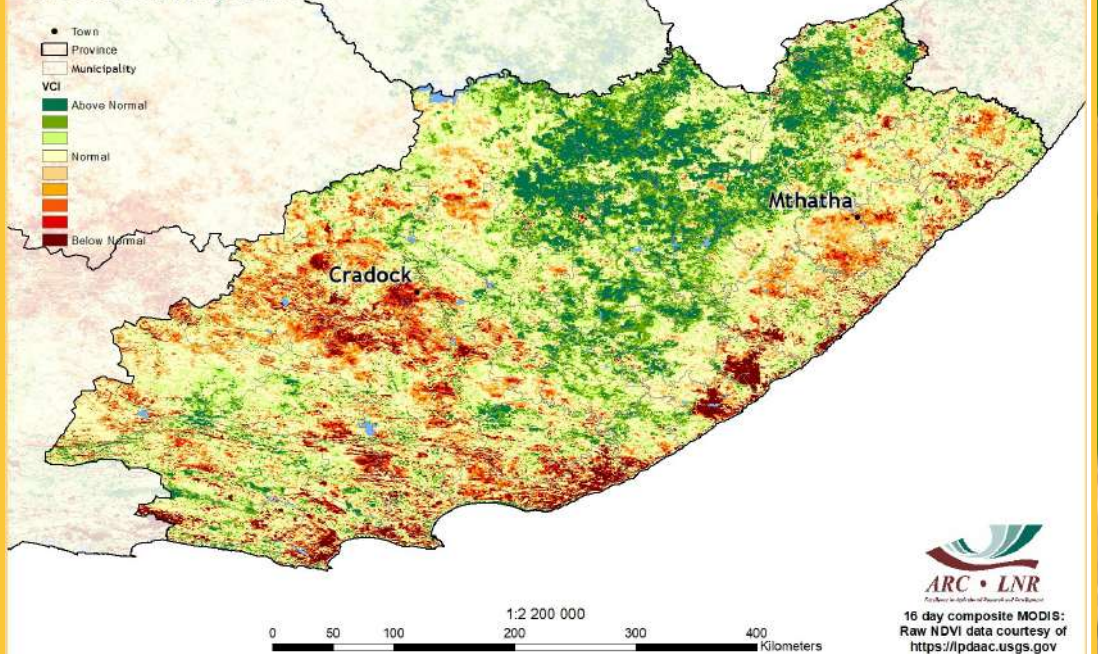


Figure 15

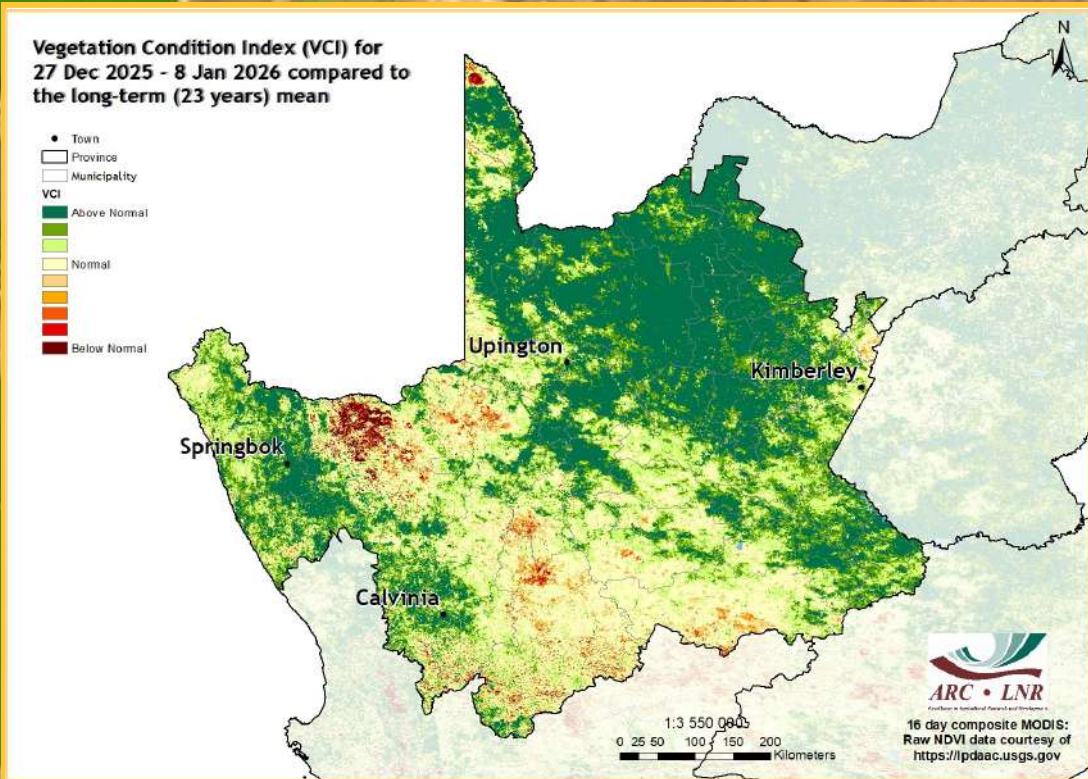


Figure 16

Figure 16: The 16-day VCI map for January 2026 shows improved vegetation conditions persisting mainly in the eastern half of the Northern Cape with patches of below-normal activity in the central and southern parts of the province.

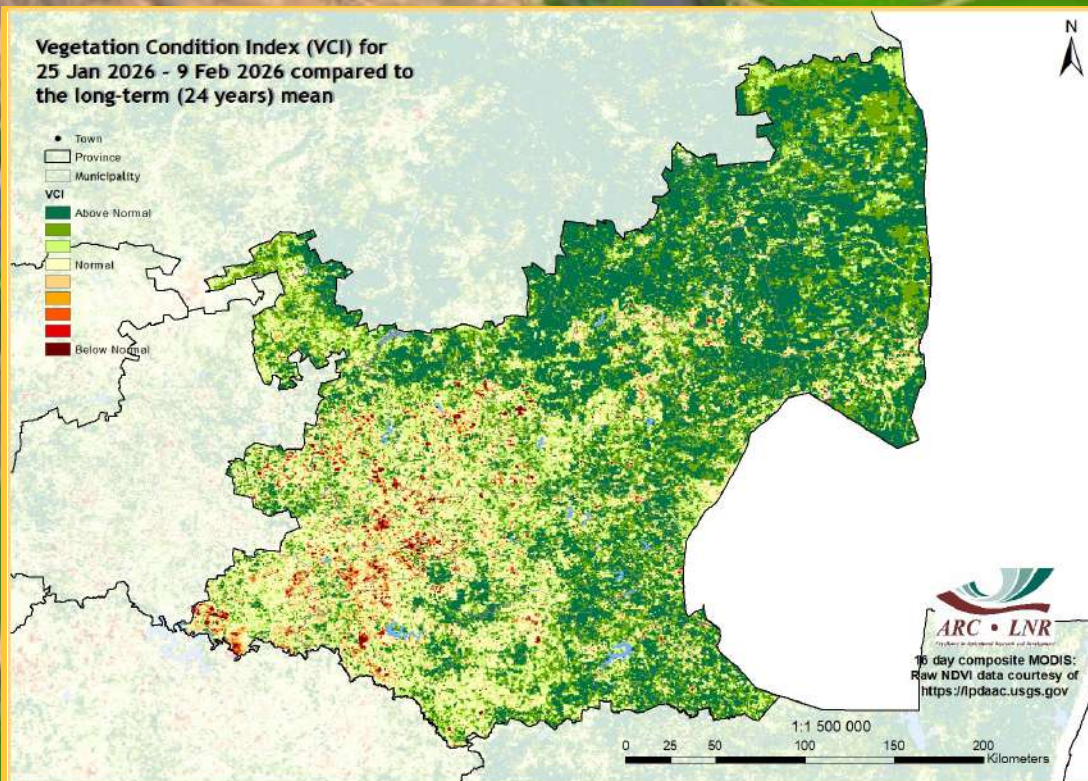


Figure 17

Figure 17: The 16-day VCI map for January 2026 shows that most of Mpumalanga experienced improved vegetation conditions with patches of below-normal activity mainly confined to the southeastern parts.

Questions/Comments:
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6. Vegetation Conditions & Rainfall

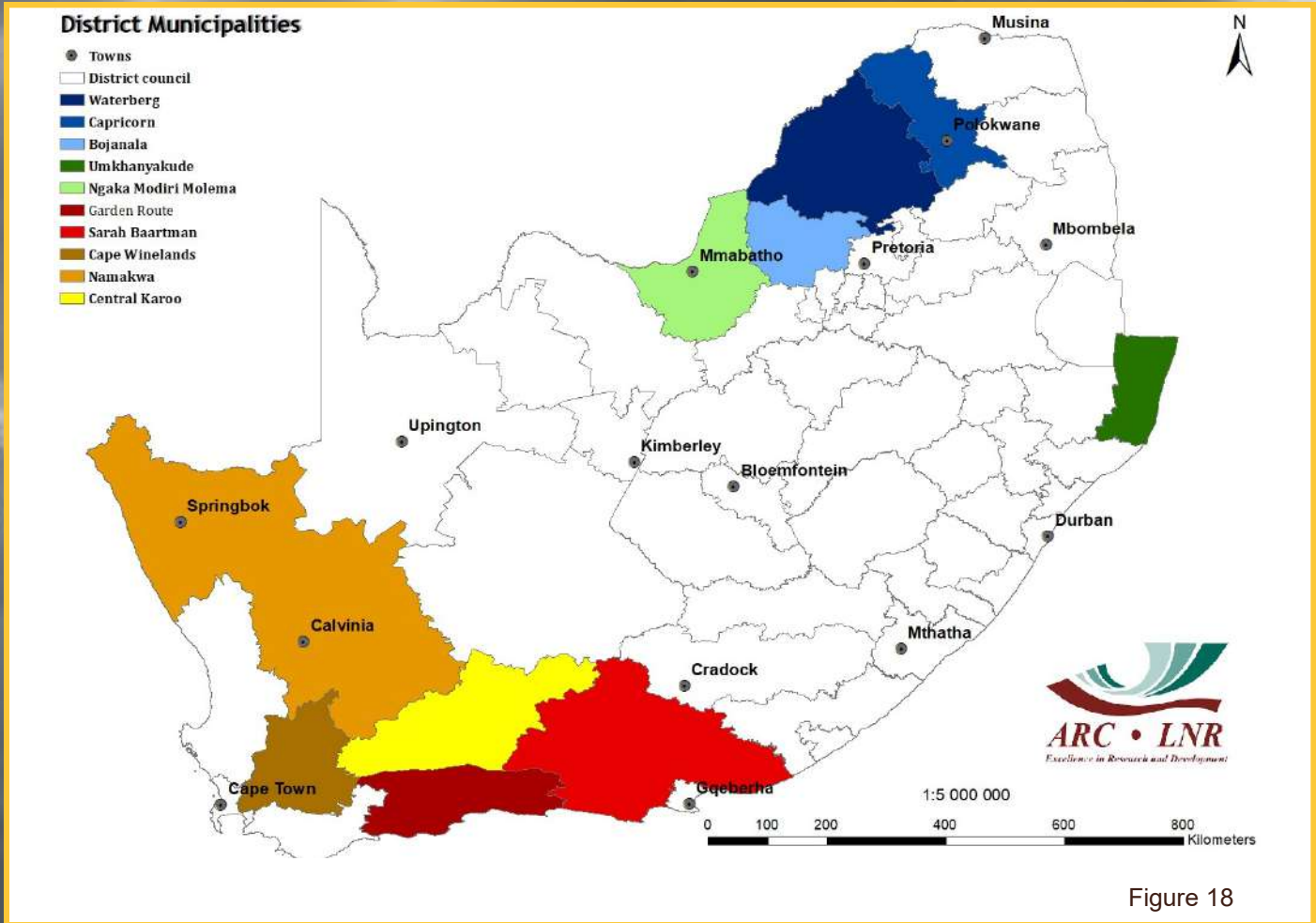


Figure 18

Rainfall and NDVI Graphs

Figure 18: Orientation map showing the areas of interest for January 2026. The district colour matches the border of the corresponding graph.

Questions/Comments:
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Figures 19-23: Indicate areas with higher cumulative vegetation activity for the last year.

Figures 24-28: Indicate areas with lower cumulative vegetation activity for the last year.

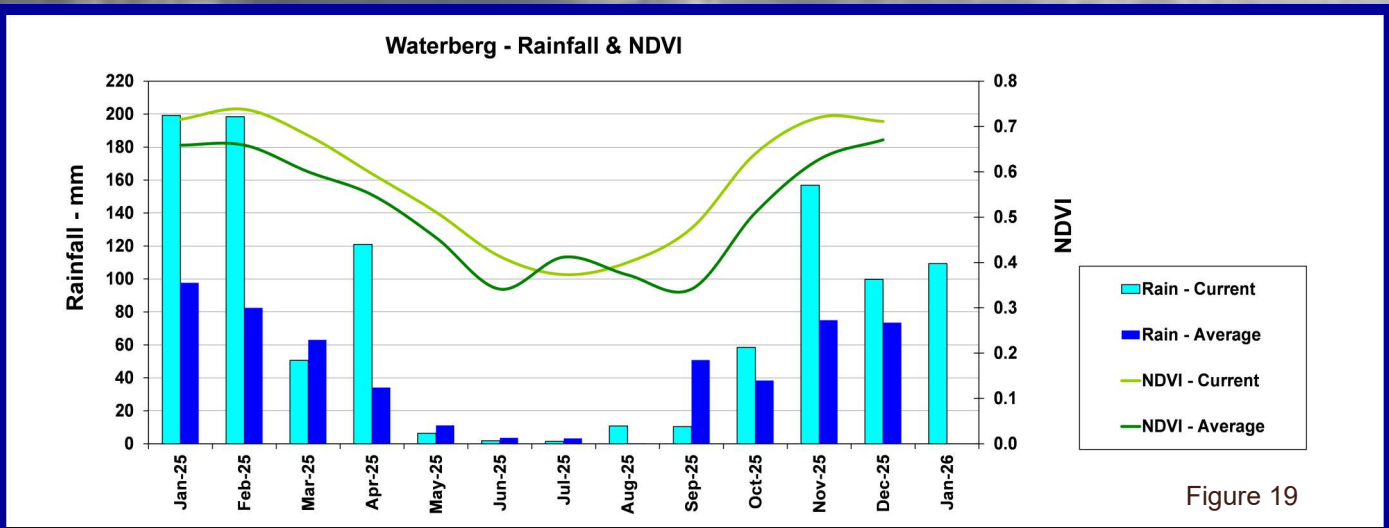
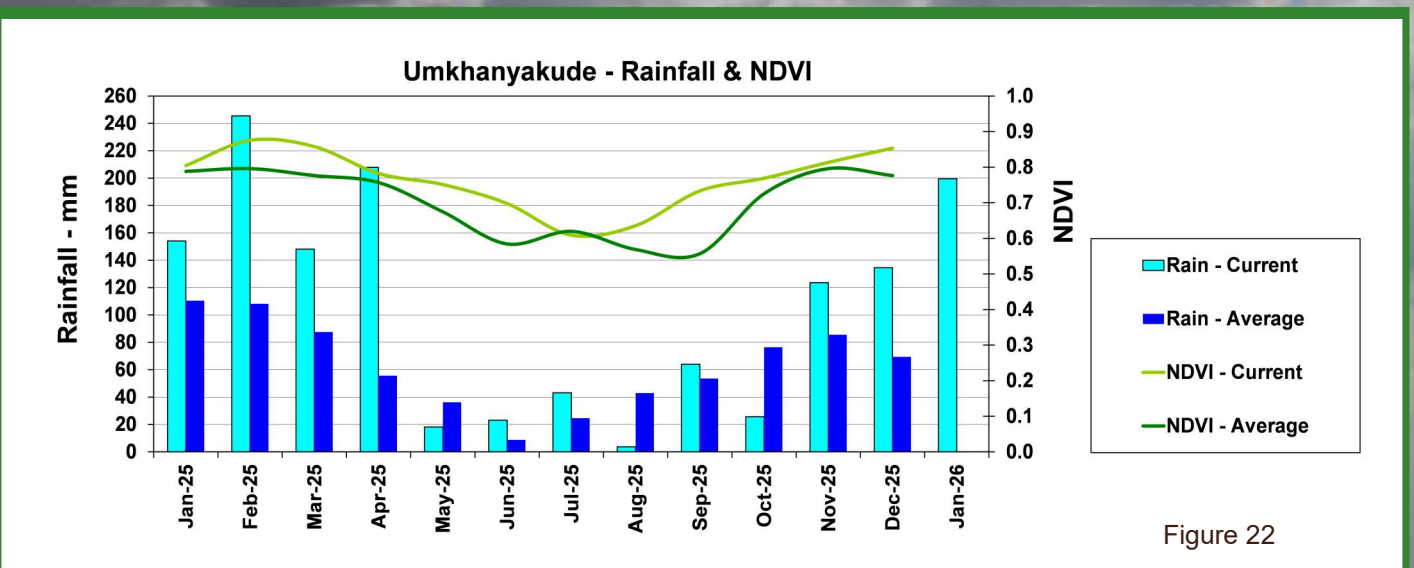
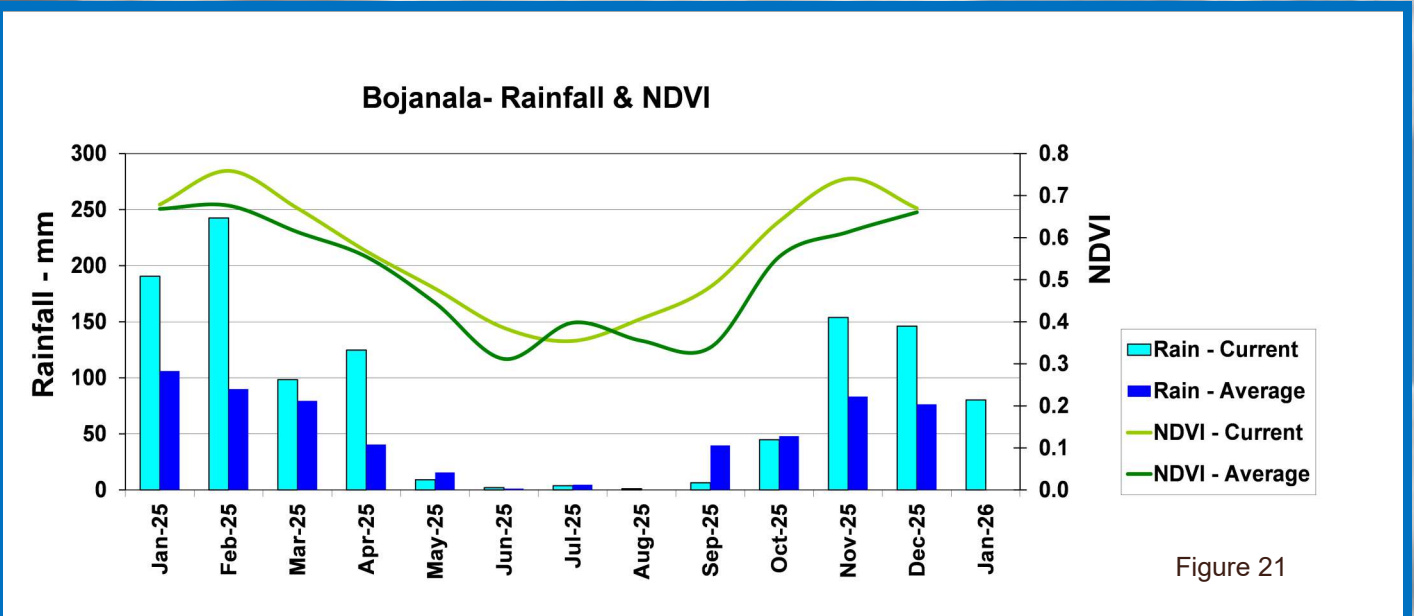
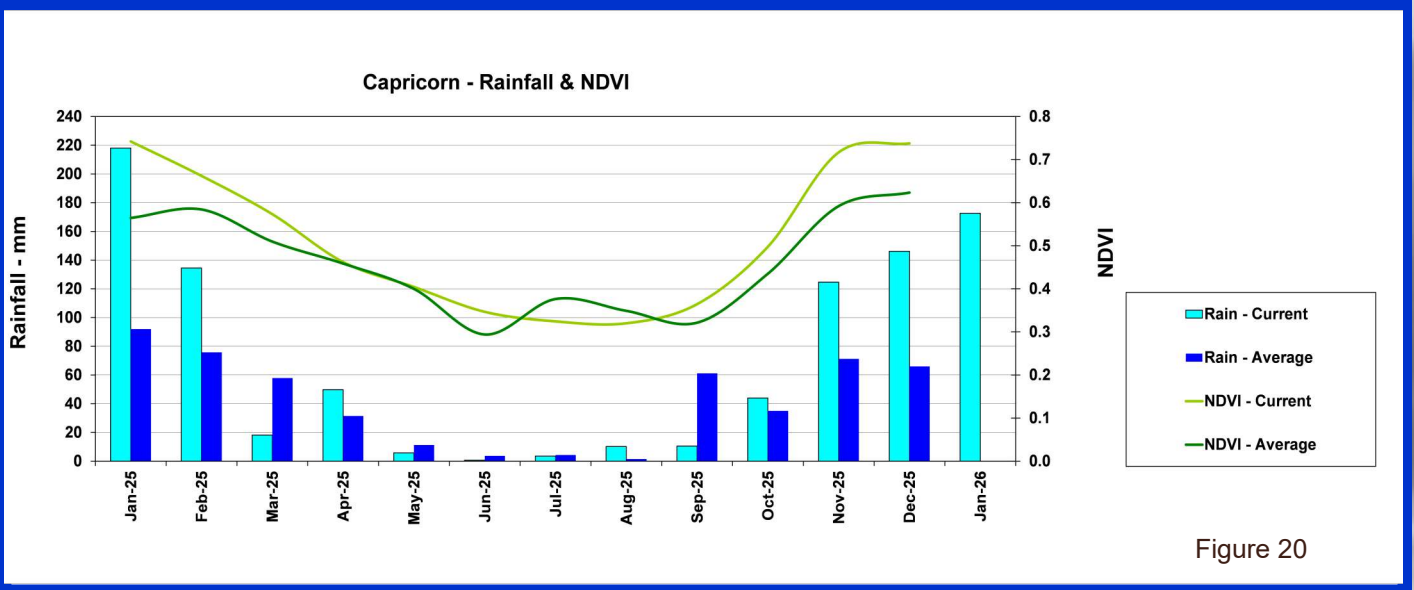


Figure 19



Ngaka Modiri Molema- Rainfall & NDVI

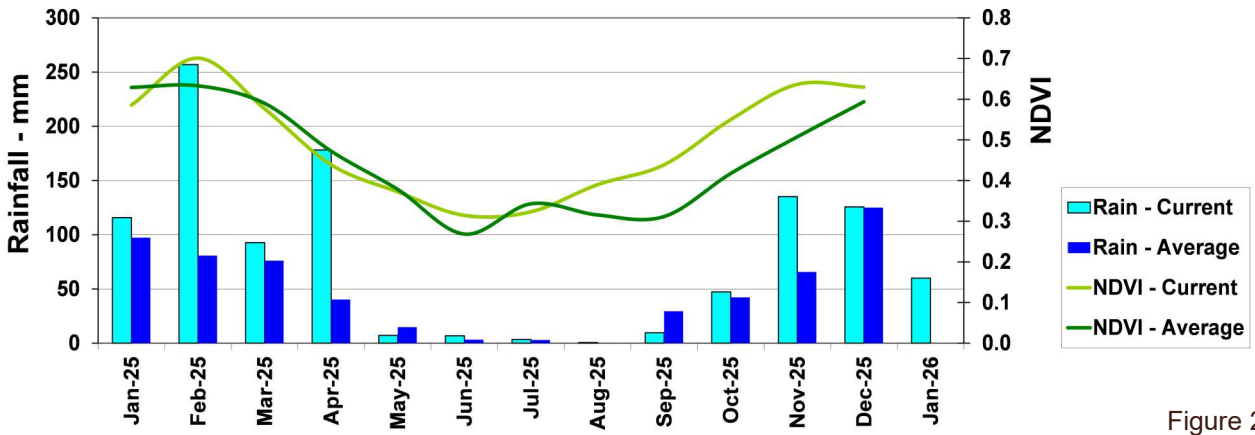


Figure 23

Garden Route - Rainfall & NDVI

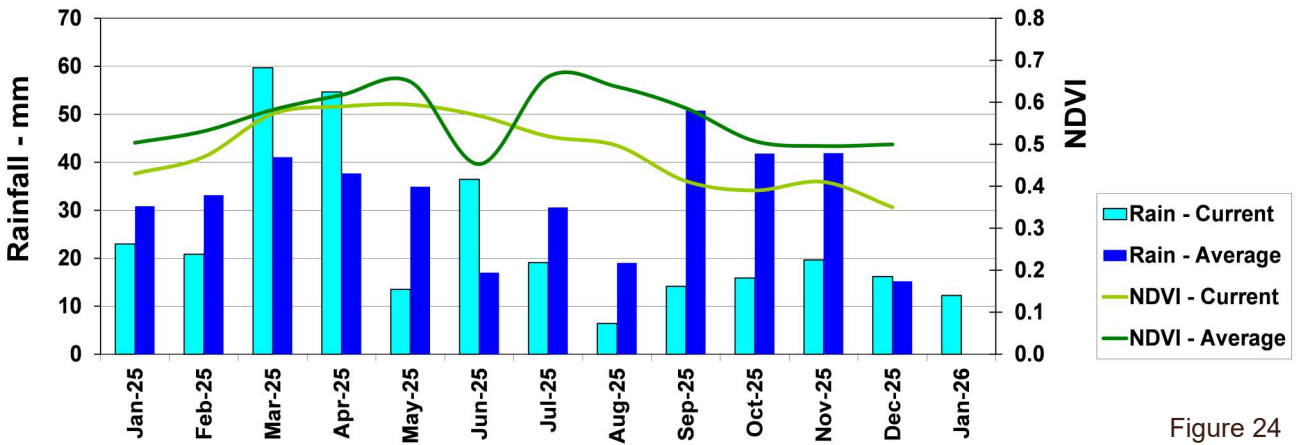


Figure 24

Sarah Baartman- Rainfall & NDVI

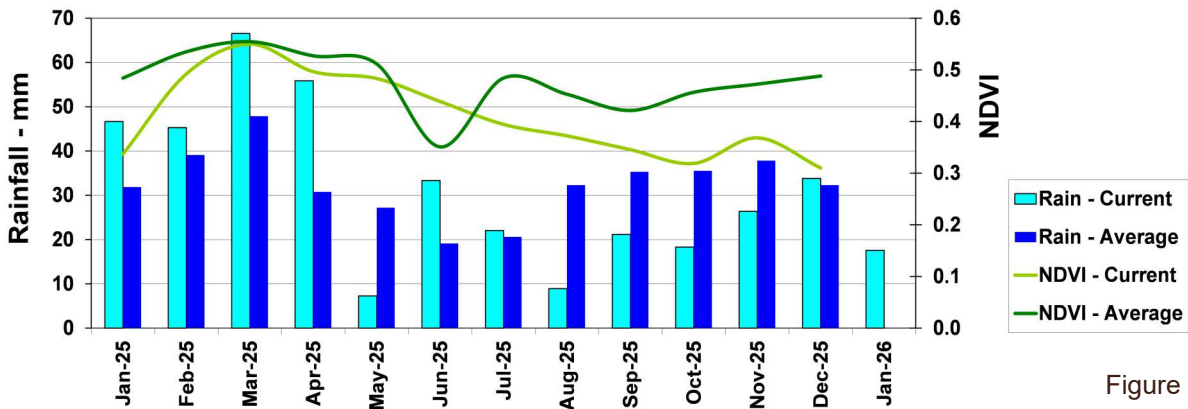


Figure 25

Cape Winelands - Rainfall & NDVI

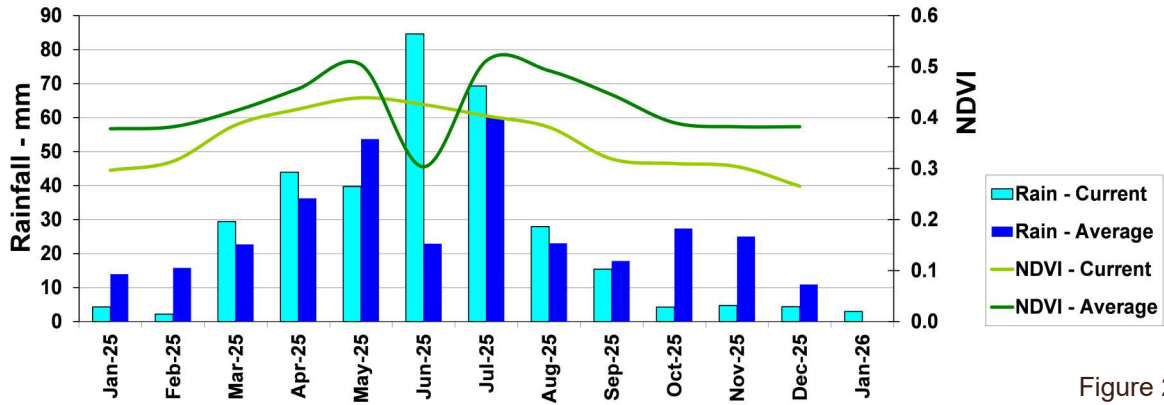


Figure 26

Namakwa - Rainfall & NDVI

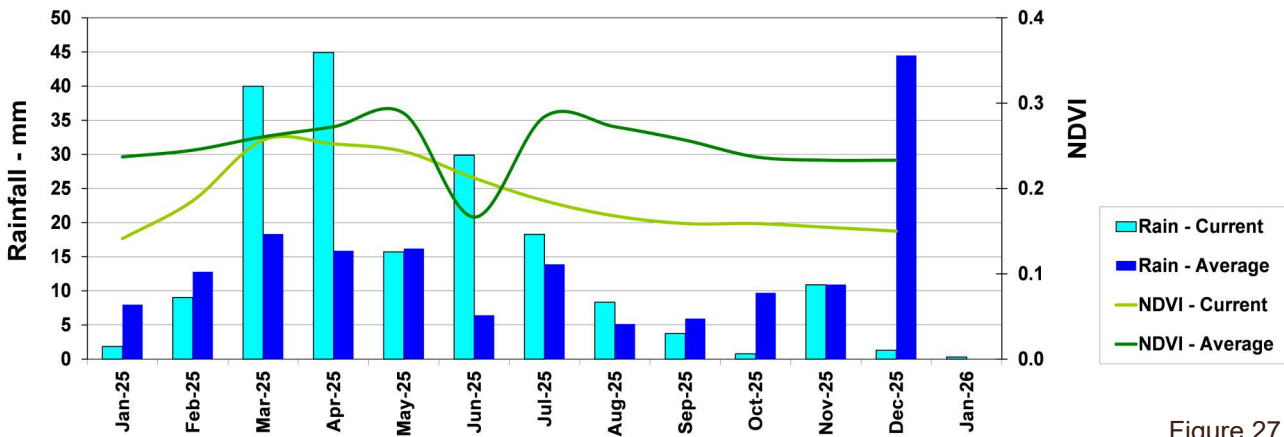


Figure 27

Central Karoo - Rainfall & NDVI

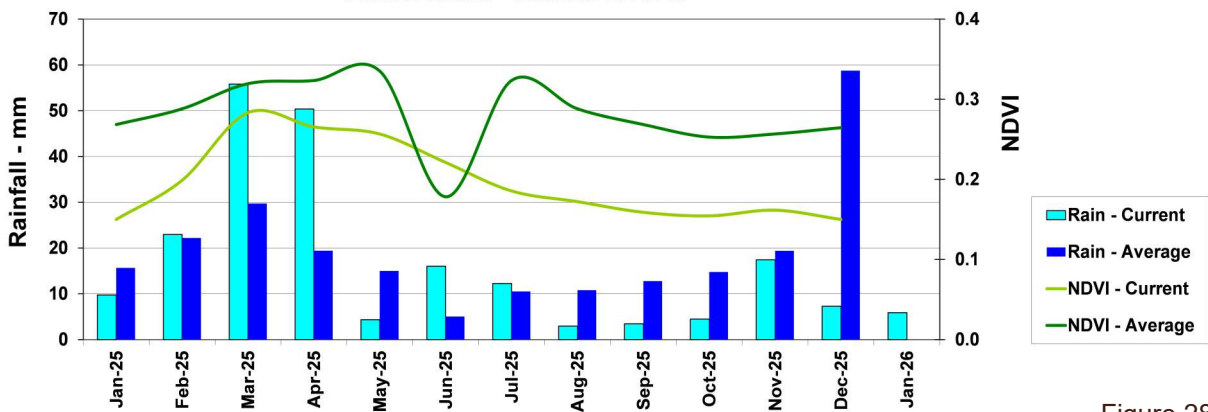


Figure 28

7. Fire Watch

Active Fires (Provided when data is available)

Forest and vegetation fires have temperatures in the range of 500 K (Kelvin) to 1000 K. According to Wien's Displacement Law, the peak emission of radiance for blackbody surfaces of such temperatures is at around 4 μm . For an ambient temperature of 290 K, the peak of radiance emission is located at approximately 11 μm . Active fire detection algorithms from remote sensing use this behaviour to detect "hot spot" fires.

Figure 29:

The graph shows the total number of active fires detected from 1 January to 1 February 2026 per province. Fire activity was higher in the Eastern Cape, Gauteng, the Western Cape and KwaZulu-Natal compared to the long-term average.

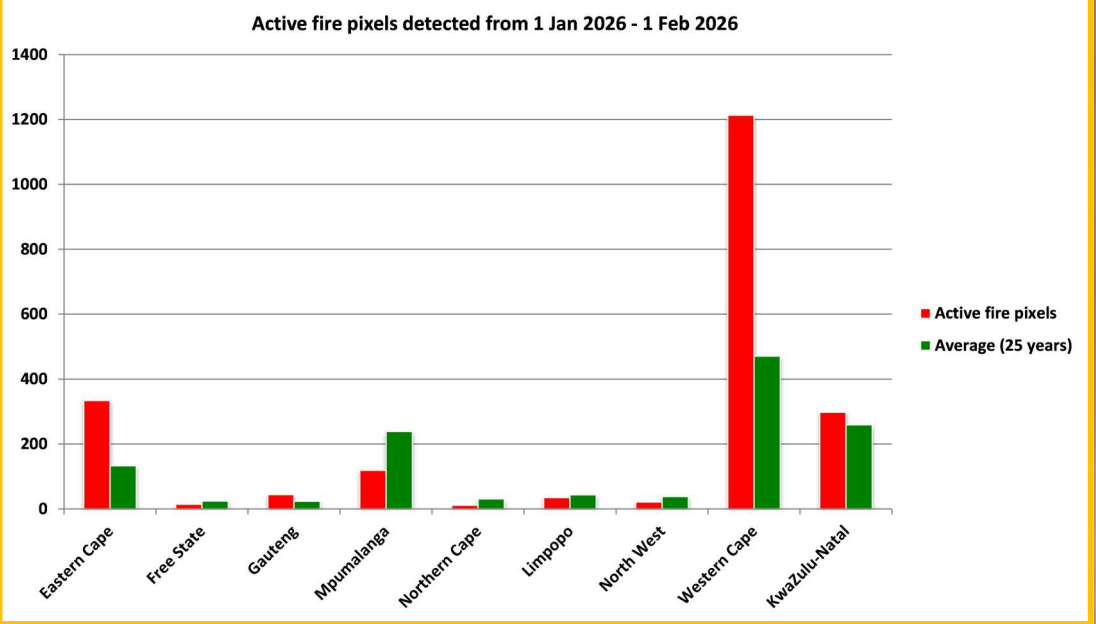


Figure 29

Active fires detected between 1 Jan - 1 Feb 2026

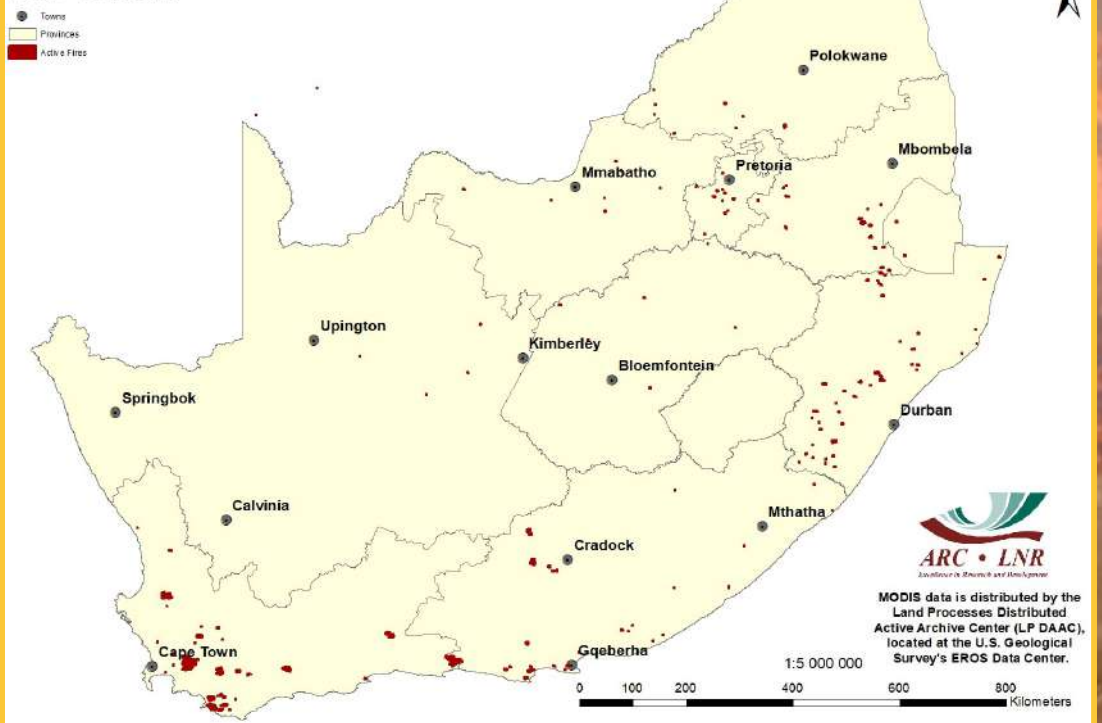


Figure 30:

The map shows the location of active fires detected between 1 January and 1 February 2026.

Figure 30

8. Surface Water Resources

Countrywide surface water areas (SWAs) are mapped on a monthly basis by GeoTerraImage using Sentinel-2 satellite imagery from the start of its availability at the end of 2015.

Figure 31 represents a comparison between the area of water available now and the maximum area of surface water recorded in the last 9 years. This 9-year historical window represents the operational period of the satellite from which the water information has been generated. In this map, any value less than 100 represents water catchments within which the current month's total surface water is less than the maximum extent recorded for the same area since the end of 2015.

Figure 32 represents a comparison between the area of surface water now and for the same month last year. In this map, any value less than 100 represents water catchments within which the current month's total surface water is less than that recorded in the same water catchment, in the same month, last year.

The long-term map for January 2026 shows a near identical water distribution pattern to last month, with a significant increase in water levels continuing across most of the summer rainfall region compared to the previous November 2025 pattern. In contrast, water conditions in the winter rainfall region are both geographically more extensive and exhibiting lower levels, especially in the Karoo, compared to November.

The comparison between January 2026 and January 2025 is now showing lower water distribution areas across most of the summer rainfall region than that observed in the previous monthly comparison, except for significantly higher water levels across the lowveld areas of both Mpumalanga and Limpopo which are associated with the recent flooding. Areas of extreme water shortage are expanding in the Little Karoo region of the Western Cape in January 2026 compared to the previous month.

The SWA maps are derived from the monthly data generated and available through GeoTerraImage's 'Msanzi Amanzi' web information service: <https://www.water-southafrica.co.za>

Questions/Comments:
mark.thompson@geoterraimage.com

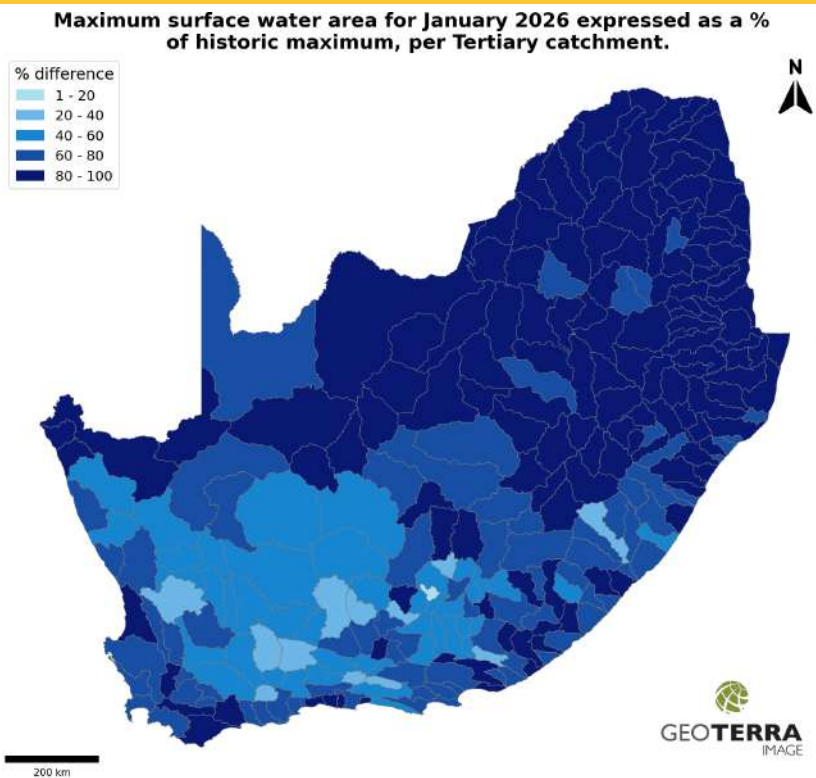


Figure 31

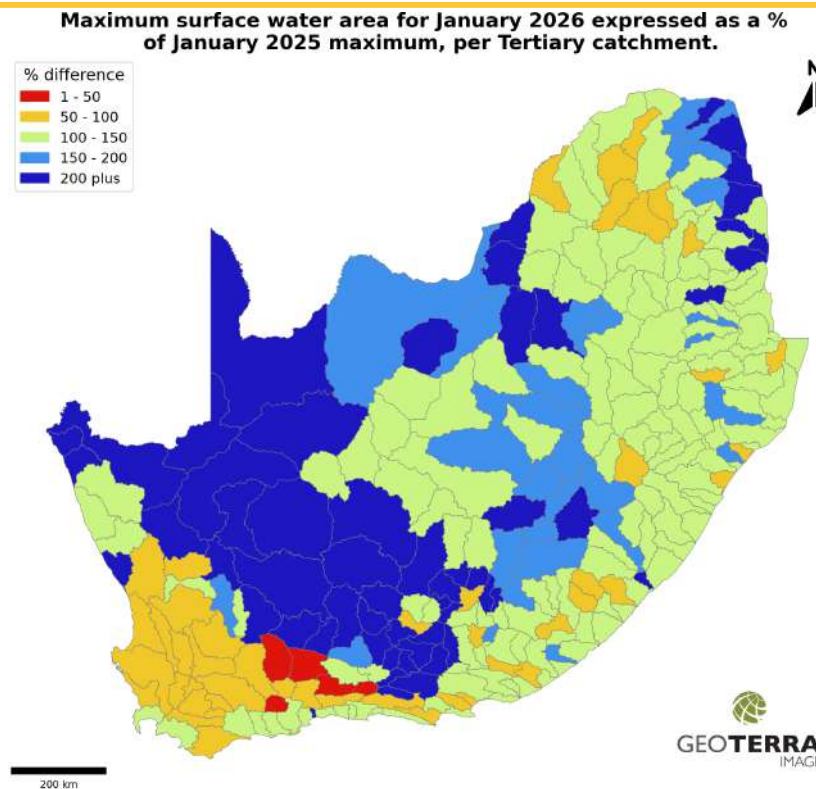


Figure 32



Agrometeorology

The programme uses weather and climate information for agricultural planning and the enhancement of crop and livestock production systems. The impact of climate variability and change in the agricultural sector is investigated. Due to the increasing pressure to reduce greenhouse gas emissions globally, climate change mitigation is also an important facet of our activities. The Weather Station Network and Climate Database are maintained as a national asset for the benefit of the agriculture sector.

Activities

Agrometeorology and Crop Modelling

- Assessing climate risk for an area in relation to a particular crop
- Agroclimatological analysis of the suitability for crop production at a particular location
- Development of early warning systems for climate hazards (e.g. drought, floods)
- Agrometeorological forecasting and advisory services
- Crop modelling to assess the impact of weather conditions and climate on agriculture
- Conducting crop yield forecasting exercises, hydrological modelling, hydrometeorology and biometereology studies

Climate Change Adaptation and Mitigation

- Conducting research on possible impact of projected climate change on agricultural activities, potential, greenhouse gas emissions from various land use, climate change, mitigation and adaptation strategies for agriculture
- Developing greenhouse gas inventories at farm and national levels
- Conducting research on climate change mitigation and adaptation strategies for agriculture
- Promoting low-carbon technologies

Climate Monitoring, Products and Services

- Developing and maintaining a network of over 500 weather stations distributed all over the country
- Archiving historical and current weather data of good quality with some datasets dating back to 1900
- Developing weather/climate products and services together with stakeholders and clients to meet their specific requirements
- Disseminating weather/climate data, products and services via multiple platforms

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SOIL, CLIMATE AND WATER



GeoInformatics

The programme focuses on applied Geographical Information Systems (GIS) and provides leadership in GIS products, solutions and decision support systems for agriculture and natural resources management. The Coarse Resolution Satellite Image Archive and Information Database is maintained as a national asset.

Activities

Digital/Smart Agriculture/Drone Platform - Applications

- Yield & production estimation
- Insurance index
- Mapping crop types
- Monitoring growth stages
- Weed/invasive sp. mapping
- Water requirement
- Smart & digital agriculture
- Disease/pests



Applications in Natural Resources/National Assets

- Early warnings
- National & Provincial advisories
- Crop suitability changes
- Crop statistics
- Crop stress
- Spatially explicit information dissemination systems, e.g. Umlindi newsletter



Applications in Rangelands, Livestock and Wildlife

- Early warnings
- National & Provincial advisories
- Rangeland suitability
- Rangeland dynamics
- Rangeland stresses
- Spatially explicit information dissemination systems, e.g. Umlindi newsletter



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SOIL, CLIMATE AND WATER



Analytical Laboratory

The unit focuses on the various procedures to analyze and determine the properties of soil, water and associated materials, mainly for agricultural purposes. The laboratory operates a range of equipment and participates in various quality control schemes, both local and international. The water analysis for anions is SANAS-accredited and other accreditations are underway.

Analyses and Services

Soil Physical Analysis

- Texture (sand, silt and clay content)
- Water-holding capacity
- Soil moisture content
- Bulk density
- Shrink-swell capacity

Soil Chemical Analysis

- pH
- Exchangeable and extractable cations
- Acidity
- Soil Organic Carbon
- Nitrogen content and C/N ratio
- Phosphorus
- Micronutrients

Soil Fertility

- Analysis package for farmers & gardeners
- Fertilizer recommendations for specific crops

Water Analysis

- pH, EC, anions, cations
- Water quality

ICP Scan

- Semi-quantitative scan for a range of elements (Li, Be, Ti, V, Cr, Mn, Co, Ni, Cu, Zn, As, Se, Rb, Sr, Mo, Cd, Sn, Sb, Te, Cs, Ba, La, W, Pt, Hg, Tl, Pb, Bi, U), can be done on soil, water and plant

Plant Material Analysis

For example: leaves, roots, growth media, etc. – drying, milling, pH, EC, C, N, nutrients and toxic elements

Special Sample Analysis

- For example: sludges, compost, fertilizers – composition and other properties
- Elemental analysis of animal tissue (e.g. hair, bones, liver, muscle, milk)

For more information or to obtain prices or quotation, contact the Laboratory Manager: Ms. Zanele Hlam
Tel: 012 310 2531 • E-mail: HlamZ@arc.agric.za

In order to assist clients who wish to send samples to ARC, the courier costs can be borne by ARC for analysis packages of R10 000 or more.

Contact the Laboratory Manager for details.

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SOIL, CLIMATE AND WATER



Microbiology and Environmental Biotechnology Laboratory

The Microbiology and Environmental Biotechnology Research Group forms part of the Soil Science Programme at ARC-SCW. The research group utilizes both fundamental as well as applied microbiology and biotechnology approaches to address soil, climate and water related problems in a sustainable and eco-friendly manner.

Analyses and Services

Renewable energy generation

- Gas Chromatography analysis of biogas - methane and carbon dioxide content measurements

Nanotechnology

- UV-Visible spectrophotometer analysis for colloidal nanoparticle synthesis

Phytochemical extraction

- Hotplate extraction of phytochemicals
- Soxhlet extraction of phytochemicals
- Microwave-assisted extraction of phytochemicals

Community-Level Physiological Profiling (CLPP)

- Microbial functional analysis using Biolog 31C plates

For information on microbiological analyses contact

Dr Ashira Roopnarain

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In order to assist clients who wish to send samples to ARC, the courier costs can be borne by ARC for analysis packages of R10 000 or more.

Contact the Laboratory Manager for details.

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The Coarse Resolution Imagery Database (CRID)

NOAA AVHRR

ARC-NRE has an archive of daily NOAA AVHRR data dating from 1985 to 2004. This database includes all 5 bands as well as the Normalized Difference Vegetation Index (NDVI), Active Fire and Land Surface Temperature (LST) images. The NOAA data are used, for example, for crop production and grazing capacity estimation.

MODIS

MODIS data is distributed by the Land Processes Distributed Active Archive Center (LP DAAC), located at the U.S. Geological Survey's EROS Data Center. The MODIS sensor is more advanced than NOAA with regard to its high spatial (250 m² to 1 km²) and spectral resolution. ARC-NRE has an archive of MODIS (version 4 and 5) data.

- MODIS v4 from 2000 to 2006
- MODIS v5 from 2000 to present

Datasets include:

- MOD09 (Surface Reflectance)
- MOD11 (Land Surface Temperature)
- MOD13 (Vegetation Products)
- MOD14 (Active Fire)
- MOD15 (Leaf Area Index & Fraction of Photosynthetically Active Radiation)
- MOD17 (Gross Primary Productivity)
- MCD43 (Albedo & Nadir Reflectance)
- MCD45 (Burn Scar)

Coverage for version 5 includes South Africa, Namibia, Botswana, Zimbabwe and Mozambique.

More information:

<http://modis.gsfc.nasa.gov>

VG4AFRICA and GEOSUCCESS

SPOT NDVI data is provided courtesy of the VEGETATION Programme and the VGT4AFRICA project. The European Commission jointly developed the VEGETATION Programme. The VGT4AFRICA project disseminates VEGETATION products in Africa through GEONETCast.

ARC-NRE has an archive of VEGETATION data dating from 1998 to the present. Other products distributed through VGT4AFRICA and GEOSUCCESS include Net Primary Productivity, Normalized Difference Wetness Index and Dry Matter Productivity data.

Meteosat Second Generation (MSG)

ARC-NRE has an operational MSG receiving station. Data from April 2005 to the present have been archived. MSG produces data with a 15-minute temporal resolution for the entire African continent. Over South Africa the spatial resolution of the data is in the order of 3 km. ARC-NRE investigated the potential for the development of products for application in agriculture. NDVI, LST and cloud cover products were some of the initial products derived from the MSG SEVIRI data. Other products derived from MSG used weather station data, including air temperature, humidity and solar radiation.

Rainfall maps

- Combined inputs from 450 automatic weather stations from the ARC-NRE Soil, Climate and Water weather station network, 270 automatic rainfall recording stations from the South African Weather Service (SAWS), satellite rainfall estimates from the Famine Early Warning System Network: <http://earlywarning.usgs.gov> and long-term average climate surfaces developed at the ARC-NRE.

Solar Radiation and Evapotranspiration maps

- Combined inputs from 450 automatic weather stations from the ARC-NRE Soil, Climate and Water weather station network.
- Data from the METEOSAT Second Generation (MSG) 3 satellite via GEONETCAST: <http://www.eumetsat.int/website/home/Data/DataDelivery/EUMETCast/GEONETCast/index.html>.



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The operational Coarse Resolution Imagery Database (CRID) project of ARC-NRE is funded by the Department of Agriculture (DoA). Development of the monitoring system was made possible at its inception through LEAD funding from the Department of Science and Technology.

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To subscribe to the newsletter, please click on the following link:
<https://forms.office.com/r/YhBLkxXXp7>

*What does Umlindi mean?
UMLINDI is the Zulu word for "the watchman".*

DISCLAIMER:

The ARC-NRE and its collaborators have obtained data from sources believed to be reliable and have made every reasonable effort to ensure accuracy of the data. The ARC-NRE and its collaborators cannot assume responsibility for errors and omissions in the data nor in the documentation accompanying them. The ARC-NRE and its collaborators will not be held responsible for any consequence from the use or misuse of the data by any organization or individual.