

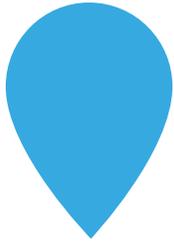


BLUE NORTH

THINKING. FUTURE

WATER DESK

Comprehensive water risk management

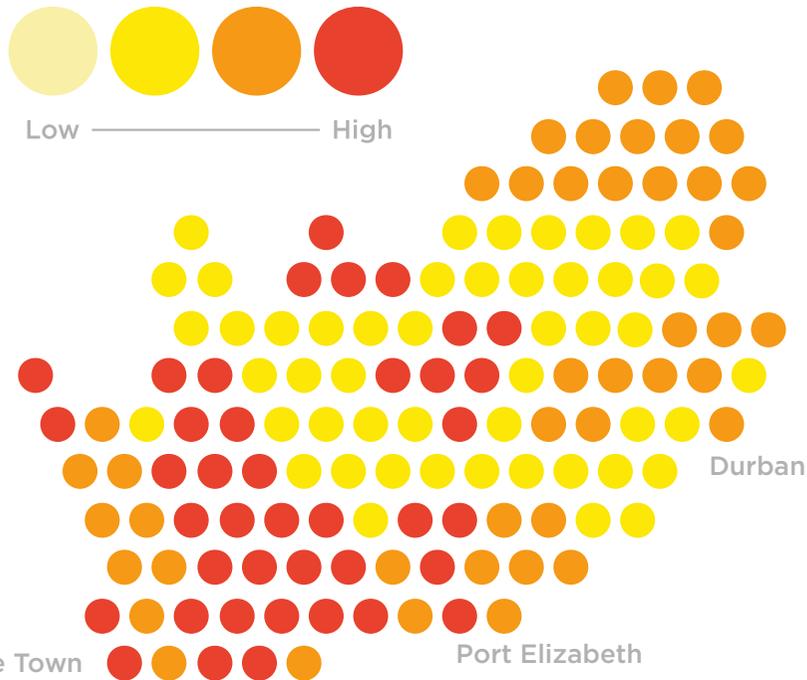


FUTURE-PROOF YOUR BUSINESS BY UNDERSTANDING YOUR WATER RISKS

DID YOU KNOW?

SOUTH AFRICA IS HIGHLY WATER-STRESSED

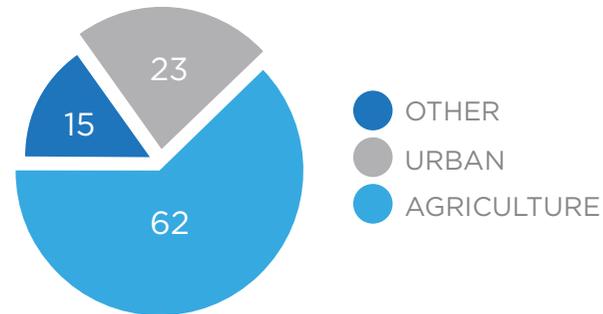
SOUTH AFRICA'S WATER STRESS LEVELS



SA's average annual rainfall **40%** ↓ than global average.



98% of South Africa's available water has already been allocated.

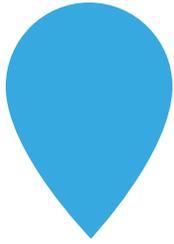


Water demands are projected to increase by 32% by 2030.

As South Africa's population grows, these allocations are likely to change. South African farmers will need to produce more with less water.

Source: Aqueduct Water Risk Atlas

Source: WWF-SA: Water Facts and Figures
Dept. of Water and Sanitation (2015)

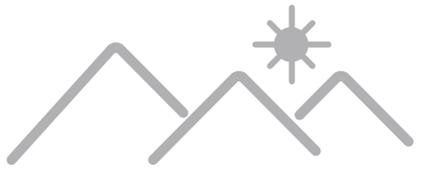


FUTURE-PROOF YOUR BUSINESS BY UNDERSTANDING YOUR WATER RISKS

DID YOU KNOW?

WATER RISK IS MULTI-DIMENSIONAL

Water risks can impact your business in many different and unexpected ways.



Upstream Water Risk (direct):

The quality and quantity of your water supply may be impacted by others through:

- Upstream water consumption
- Upstream land use changes
- Upstream pollution



On-Farm Water Risk (direct):

- Crop yield and quality
- Compliance
- Regulatory
- Reputational
- Cost

Downstream Water Risk

(indirect: water is a shared resource)

- Pollution
- Over-extraction
- Ecological impact
- Stakeholder relationships

BLUE NORTH OFFERS 3 SOLUTIONS

to assess and manage your water risks

KNOW YOUR RISK

Water risk profiling (desktop & GIS-based)

Why choose water risk profiling?

To develop an accurate and valuable water risk profile from a farm, catchment and/or a regional perspective.

What is it and what does it entail?

Based on highly credible water risk tools, Blue North's *Desktop Water Risk Profiling* presents the extent and severity of your water risk, according to basin-related and operation-specific water risk. The different types of water risk presented include: physical risk (quantity and quality); regulatory risk; and reputational risk.

Blue North's *GIS Water Risk Profiling* presents the drivers of your water risk as easy-to-use map layers (can be displayed on Google Earth). Some of these drivers include: proximity to waste water works sites; groundwater quality and vulnerability; and ecological status of rivers. This is a powerful means of identifying and communicating your water risks.

IDENTIFY YOUR CHALLENGES

Water footprint (site-specific analysis)

Why choose a water footprint assessment?

Water footprinting provides the scientific and holistic framework to enable:

- Identification and prioritization of site-specific water-related risks and opportunities;
- Comparing site-specific water use relative to regional, national and global water use benchmarks.
- Clear and credible communication with stakeholders further up the value chain.

What is it and what does it entail?

Through the water footprint assessment, you will obtain:

- A water footprint of the key commodities on your farm.
- Site-specific analyses of your water use and water management practices.
- A Sustainability Assessment, which includes site-specific socio-economic and ecological risk factors.

KNOW WHAT TO DO

Water action plan (site-specific planning)

Why choose the water action plan?

Water risks in agricultural systems can be complex and significant. Blue North will help you navigate this complexity, and provide you with a practical action plan.

What is it and what does it entail?

Based on the knowledge gained from the previous steps, Blue North will develop a clear and practical action plan that is relevant to your business.

From high-level strategy to technology solutions, we will help you future-proof your business.



BLUE NORTH

THINKING. FUTURE

Blue North Sustainability (Pty) Ltd is a Stellenbosch-based consulting practice that is focused on the development and implementation of robust and credible sustainability programs in businesses and supply-chains in the food and agricultural sector.

Blue North has completed a number of water risk projects. Our diverse and complimentary expertise ensures that our output is science-based, comprehensive and of both strategic and practical value to our clients.

For more information visit www.bluenorth.co.za
(About Us; Guiding Concepts; Our Services)

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