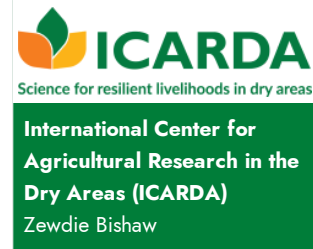
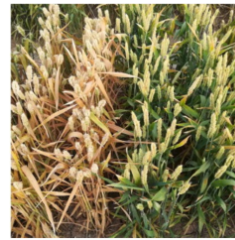


Heat and Drought Tolerant Wheat Varieties

Wheat cultivation in high temperature regions

These wheat varieties mature in 90 days, withstand temperatures 4°C above normal, maintain 75% yield under extreme conditions, resist diseases like yellow stem rust, and have high water use efficiency. They also good for bread flour with a protein content of 14-15%. Ideal for challenging environments like Sub-Saharan Africa.



This technology is **TAAT1 validated**.

7•8



Scaling readiness: idea maturity 7/9; level of use 8/9

Gender assessment

4

Climate impact

7

Problem

- **Heat Stress:** Yield loss due to temperatures 4°C higher than normal.
- **Drought Conditions:** Poor performance with less than 200mm of moisture.
- **Low Productivity:** Traditional varieties yield much less than 6 tons/ha.
- **Limited Cultivation Zones:** Unsuitable for high temperatures and low rainfall areas

Solution

- **Heat Tolerance:** Withstand temperatures 4°C higher than normal.
- **Drought Resistance:** Perform well with less than 200mm of moisture.
- **Higher Yields:** Achieve up to 6 tons/ha.
- **Expanded Cultivation Areas:** Suitable for high-temperature and low-rainfall regions.

Key points to design your project

To integrate this technology

- Calculate seed quantity based on planting rate and cost,
- Consider sourcing logistics,
- Provide training and communication support, and
- Collaborate with agricultural institutes and seed multiplication companies for implementation.

Additionally, it's recommended to combine this technology with other wheat production methods for optimal results.

Cost: \$\$\$

4 - 6 tons/ha

increase in yield

100 kg/ha

Planting rate



Unknown

Technology from

ProPAS

Commodities

Wheat

Sustainable Development Goals



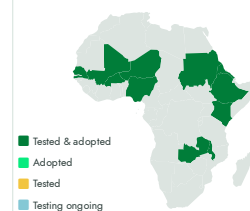
Categories

Production, Improved varieties,
Drought tolerance, Heat tolerance

Best used with

- [Wheat Cultivation in Dryland through Winter Irrigation >](#)
- [Furrow Irrigated Raised Bed Wheat Production >](#)
- [Yellow Rust and Stem Rust Resistant wheat >](#)

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Heat and Drought Tolerant Wheat Varieties

<https://taat.africa/sph>

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