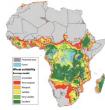
## Heat and Drought Tolerant Wheat Varieties

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.



## CARDA Science for resilient livelihoods in dry areas

International Center for Agricultural Research in the Dry Areas (ICARDA) Zewdie Bishaw

bread flour with a protein content of 14-15%. Ideal for challenging environments like Sub-Saharan Africa.		Technology originally documented by
This technology is TAAT1 validated.	Scaling readiness: idea maturity 7/9: level of use 8/9	ProPAS
Gender assessment 84	Climate impact 87	Commodities
<ul> <li>Problem</li> <li>Heat Stress: Yield loss due to temperatures 4°C higher than normal.</li> <li>Drought Conditions: Poor performance with less than 200mm of moisture.</li> <li>Low Productivity: Traditional varieties yield much less than 6 tons/ha.</li> <li>Limited Cultivation Zones: Unsuitable for high temperatures and low rainfall areas</li> </ul>	<ul> <li>Solution</li> <li>Heat Tolerance: Withstand temperatures 4°C higher than normal.</li> <li>Drought Resistance: Perform well with less than 200mm of moisture.</li> <li>Higher Yields: Achieve up to 6 tons/ha.</li> <li>Expanded Cultivation Areas: Suitable for high-temperature and low-rainfall regions</li> </ul>	Sustainable Development Goals 2 ###### 2 ###### 1 ###### 1 ###### 1 ###### 1 ##########
C	ost: \$\$\$	Best used with <ul> <li>Expanded Production of</li> </ul>
	<b>DO kg/ha</b> []IP anting rate Unknown	Irrigated Wheat > <ul> <li>Furrow Irrigated Raised</li> <li>Bed Wheat Production &gt;</li> <li>Yellow Rust and Stem</li> <li>Rust Resistant wheat &gt;</li> </ul>
		Tested/adopted in Tested & adopted Adopted Tested
		Where it can be used This technology can be used in the colored agro-ecological zones.
Heat and Drought Tolerant Whe http://taatdb-web/org/technologies/heat-and- Last updated on 26 June 2024, printed on 26	drought-tolerant-wheat-varieties	s <u>techs@taat-africa.org</u>