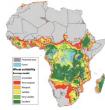
Heat and Drought Tolerant Wheat Varieties

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
 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 	Sustainable Development Goals 2 ###### 2 ###### 1 ###### 1 ###### 1 ###### 1 ##########
C	ost: \$\$\$	Best used with Expanded Production of
	DO kg/ha []IP anting rate Unknown	Irrigated Wheat > Furrow Irrigated Raised Bed Wheat Production > Yellow Rust and Stem Rust Resistant wheat >
		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>