

TAAT e-catalog for **private sector**

Wheat Cultivation in Dryland through Winter Irrigation

Growing Resilient Wheat, Even in the Hottest Seasons.

Expanded Production of Irrigated Wheat technology, emphases the cultivation of spring wheat varieties and the use of suitable irrigation systems, specific wheat varieties, fertilizers, and pesticides to promote a sustainable and resilient approach to wheat cultivation.





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

This technology is **TAAT1** validated.

7.8

Scaling reading 7/9; level of use: 8/9

Technology from

ProPAS

Commodities

Sustainable Development Goals



Categories

Best used with

Tested/adopted in



Production, Practices, Water management

• Furrow Irrigated Raised Bed

Wheat Production >

4 - 6 ton/ha Grain yields increased

Cost: \$\$\$ 373 USD Total cost of a winter production using surface irrigation

100,000 - 300,000

Open source / open access

Possible area for cultivation expansion

Problem

- · Decreased wheat yields due to exposure to high diurnal temperatures
- The global climate change, leading to heightened risks of yield losses and crop failure.
- · Traditional cultivation of wheat during the hot rainy seasons exposes the crop to adverse effects of heat stress.

Solution

- · Promote winter production of wheat in African
- · Develop and implement irrigation systems, including investments in water lifting and drip feed infrastructure.
- Encourage the use of heat-tolerant wheat varieties including fertilizers, and pesticides.



Gender assessment



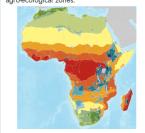
Climate impact





Where it can be used

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



Target groups



irrigation

Wheat Cultivation in Dryland through Winter Irrigation https://e-catalogs.taat-africa.org/com/technologies/wheat-cultivation-in-dryland-through-winter-

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