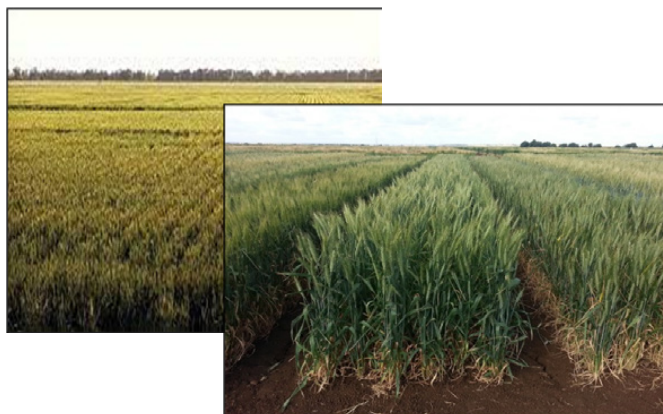


TAAT Technology: Wheat – Heat Tolerant Varieties

Link: <https://propas.iita.org/solutions/>

About 30 wheat varieties for irrigated and rainfed areas in SSA:

- Released under SARD-SC and TAAT support
- High yielding, heat tolerant and water use efficient varieties for irrigated lowlands
- High grain yield and rust resistant varieties for cooler rainfed highlands
- Short maturing varieties for double cropping in lowland irrigated areas
- High grain quality (protein content of 12-15%) suitable for agro-processors of food products (e.g. bread making)



Geography Coverage

- Ethiopia
- Mali
- Niger
- Nigeria
- Sudan
- Tanzania
- Zimbabwe

Commodity

- Wheat

What is it for

- Wheat grain producers
- Wheat seed producers
- Agro-processors

Value Chain Position

- Crop production

Problems Solved and Benefits

- Expansion of frontiers of wheat production in heat stress lowlands in sub-Saharan Africa
- Increased productivity and production reducing import gaps of wheat
- Increased farmer income from wheat production through Value addition
- Job creation for youth in wheat value chain (grain, seed, value addition)
- Availability of good quality wheat grain for local agro-processing

Costs/ROI

- Average cost of wheat production per ha: \$347.12 (range \$265.64 to \$424.54)
- Average gross income from wheat grain per ha: \$737.34 (range \$391.88 to \$927.77)
- Average net income for wheat production per ha: \$390.21 (\$198.74 to \$548.77)
- Return of investment varies from 108% to 144%
- Total value addition of wheat processing involving farmers (44.33%), processors (37.45%), and bakeries (18.22%)

Links to Associated Technologies

Heat tolerant varieties: <https://www.icarda.org/research/innovations/high-yielding-heat-tolerant-wheat-varieties-sub-saharan-africa>

Wheat production in SSA: <https://repo.mel.cgiar.org/handle/20.500.11766/9000>

Wheat value chain: <http://dx.doi.org/10.5897/AJAR2016.11889>

Irrigated wheat production in Ethiopia: <https://taat-africa.org/wp-content/uploads/2021/08/Irrigated-Wheat-Production-Brochure-TAAT-Ethiopia-2019.pdf>