



TAAT Technology: Dual-purpose sorghum & millet varieties

Link: <https://www.icrisat.org/new-multipurpose-sorghum-variety-captures-attention-in-burkina-faso/>

Technology

- Sweet and Juicy stem & stay green
- Grain Yield - 2.5 - 4t/ha
- Stover yield - 10 - 15t/ha
- Tolerant to drought & Striga
- Maturity – 105 days
- Digestibility In-vitro (49 %)
- The sorghum cultivars include *Soubatimi*, *Tiandougou coura*, *Jiguikala*, *Seguifa* and *Peke (OPVs)* *Fadda*, *Sewa*, *Nieleni*, *Grinkan Yerewolo*, *Sassilon* and *Sariasso 22 (Hybrids)*
- The millet cultivars include *MISARI 1 (OPV)*, *MISARI 2*, *NAFAGNON (Hybrid)*, *ICMV IS 89305*, *Mil de Siaka (ICMV 167005)*, *ICMV IS 94206*, *ICMH 177111*, *SOSAT-C88*, *Toroniou C*, *Synthetique 00-06*, *Synthetique 03-03* and *Thialack 2*

Commodity

- Sorghum and Millet

Geographical Coverage

- adapted to the sub-Saharan African regions agro-ecological conditions
- Zones with rainfall 600mm - 1000 mm
- All the OPVs are registered in the ECOWAS/ WAEMU/CILSS regional seed catalogue (2016-2018)c

Problems Solved and Benefits

- Human food
- Animal feed,
- Adverse effect of striga weeds,
- Effect of drought and heat,
- Farmers vs herders' conflicts

Value Chain Position

- Production and crop-livestock integration



Potential profitability

- Profitable as food grain, stover and cash
- Stay green
- Provide better grain yield than the local landrace
- Offer significantly better food quality and quantity
- Good quality stover for animal feeding
- Contributes to the intensification of crop-livestock integration
- Suggest options toward prevention of farmer vs herders' conflict

Licensing

- Classified as Public Goods and royalty-free for multiplication and sales by farmers seed growers and private companies/ enterprises; but may require certification following national guidelines

Commercialization

- The dual-purpose sorghum and millet cultivars (OPVs and Hybrids) seeds are produced and commercialized through the Formal Seed System

Production cost (Dual purpose Sorghum and millet)

- Foundation seed 4 kg/ha (millet); 8 kg/ha (sorghum)
- Fertilizer microdose → 60 kg NPK/ha; 20 kg Urea/ha
- Weeding two weeding
- Harvest – Local cost dependent.

Associated Technologies

- The cultivation of Dual-purpose sorghum and millet cultivars for human and livestock food requires that farmers also invest in inputs (seed, fertilizer), and GAPs in order to achieve the desired yields in a profitable manner.
- Applying organic and mineral fertilizer microdose is the best option for profitable production of the dual-purpose sorghum and millet.