

Algerian demo-site: SETIF region (North-east Algeria)



Integrated fish-agriculture production in SETIF demo-site

The use of water Tank in our demo-site improve the growth and development of fish in the hill tanks to reducing of water pumping frequency.

Cyprinus carpio: common carp



- High resistance to low "T"
- Improve N and P availability in water
- Possible to catch Rod fishing
- Good food value and appreciated by local population

❑ Objectives

Promote fish consumption among farmers' families
Encourage recreational fishing

❑ Stocking of Fish Fry

Location: Natural hill reservoir

Timing: November 2025 /October 2026

❑ Fish Life Cycle

Duration: 12 months

❑ Stocking Details

Number of fish fry: ~1,000 alevins

Initial size: ~50–80 g

Final size: ~300 g

Intervention and farmer strategies

SETIF Demo-Site: Integrated Crop-Livestock-Fish Production

- ❑ Agricultural production is mainly based on **integrated crop-livestock-fish systems**.
- ❑ Farmers practice **rotation and intercropping** between winter forage crops and Sorgho to ensure year-round forage production.
- ❑ **Rotation system (oat-pea → Sorgho)** ensures continuous soil cover throughout the year.
- ❑ Winter forage crops provide **harvest residues and improve soil fertility** for subsequent Sorgho crops.
- ❑ **Water harvesting system:**
Collects water from natural hillsides.
Stores water in tanks to secure Sorgho irrigation during drought.
- ❑ **Irrigation benefits from fish production:**
Fish waste continuously improves water quality.
- ❑ **Water tank capacity:**
Can be refilled up to 12 times from hillside water.
Supports both **complementary irrigation** for winter forage crops and **full irrigation** for Sorgho during summer.