

Foggara Underground Galleries Still Irrigate Algeria's Saharan Oases

PES & Nature-Based Solutions · Good practice · Algeria

Quality score: 33/100

Evidence strength: Cautionary / limited

Summary

In Algeria's Touat, Gourara and Tidikelt oases, community-governed foggara galleries still deliver a combined 1.8 m³/s from 672 of roughly 2,000 historic channels, with foggara-irrigated land expanding from 9,800 to over 15,000 hectares between 1980 and 2014.

Key dimensions

Dimension	Score
Carbon — sequestration / storage, evidenced	0/3
Biodiversity — conservation / improvement, evidenced	1/3
Water & soil — retention, infiltration, erosion control	2/3
Fire resilience — risk reduction, evidenced	0/3
Governance, certification & transferability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-08

[Foggara owners' associations \(jemâa village councils\) — Touat, Gourara & Tidikelt oases](#) — accessed 2026-09-08

[International Journal of the Commons — Foggara Institutional Analysis](#) — accessed 2026-09-08

[FAO Family Farming Knowledge Platform — Touat Foggaras Réalimentation](#) — accessed 2026-09-08

Cite this — Evidoria. *Foggara Underground Galleries Still Irrigate Algeria's Saharan Oases*. Persistent ID: 163caf48-0313-4894-b511-ca51fdfec146.