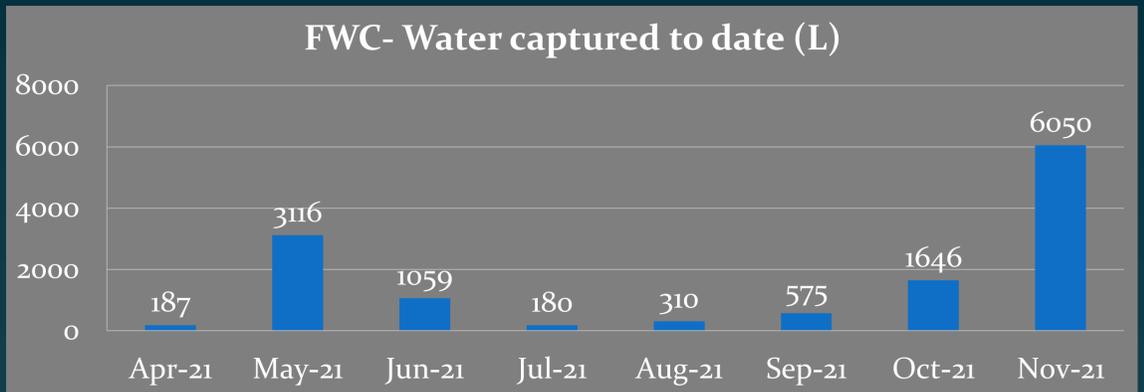


Fog Water Collectors yield up to date

Since their installation at the end of April 2021, FWCs have been harvesting water at every chance. However, the timing of their building meant that preliminary data acquisition was constrained by the effect of the driest, hottest months of the year (June – September).

Nevertheless, in October, Life Nieblas team started to receive reports of higher water collection. Up until end of November, almost 8000L have been captured by our 15 FWCs and we expect to double this amount by the beginning of 2022.

Now Life Nieblas technicians are analysing water yield data against data gathered by our met. station (installed at site) that will provide precise measurements of rain fall accumulation, fog affection, wind direction and speed, etc. The analyses of such parameters will allow technicians and scientists shed some light over forces in play when implementing fog water collection technologies.



Reforestation has begun in Gran Canaria

Since October 2021, our field team has started with reforestation activities at Los Pinillos, Valleseco, Gran Canaria. During the last two months, 2500 trees have been planted on three out of the four reforestation methods proposed by Life Nieblas :

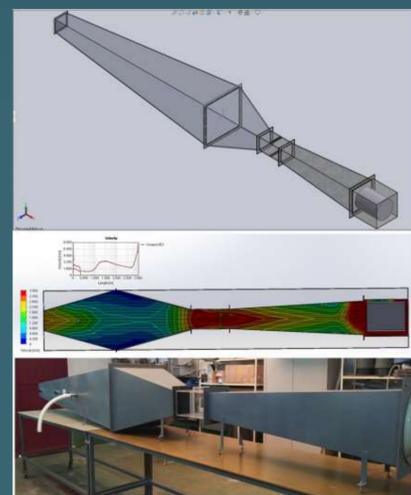
- Autonomous Fluid Discharge System (AFDS) 1 – counts with 1200 seedlings planted
- Individual Fog Water Collectors (IFWC) - hold almost 1000 plants
- and 'Traditional' method (our control group) – currently with 300 trees and counting
- our fourth method 'Cocoon', is expected to be incorporated into field from January 2022

Technical predictions suggest that our goal of planting 5000 trees per season will be satisfactorily exceeded. Plans are going ahead in order to keep planting beyond our initial goal.

Innovation on Fog Water Collectors

Collectors efficiency development has been significantly constrained by the fact that most suppliers use materials intended for purposes other than fog water collection. Life Nieblas, strives to find an affordable material, more efficient and more resistant to weathering that would become the collectors of the future.

For now, engineers are developing lab prototypes and testing them within lab confinements in order to develop transferable technology to real life environment. Engineers are making use of a 3D printer and wind tunnel to develop their experiments. These Innovative Fog Water Collectors are fast improving their water yield capacity and exceeding expectations.



Exploring possibilities of using fog water collectors in quarry restoration



CREAF members are coordinating the Technosols project, a project funded by the Government of Catalonia focused in developing new practices for mine restoration. The main objective of Technosols is to test different technosols built from mining waste.

Focusing in a circular economy strategy, the reforestation planned for this area in Catalonia is planned to begin by winter 2021. Due to its proximity to the sea (and therefore high air relative humidity), technicians have seen a chance to collaborate with Life Nieblas implementing the use of Fog Water Collectors which provides a clean and efficient source of fresh water.

Furthermore, CREAM partners are in communication with other restoration projects that have shown interest in the methodologies developed by Life Nieblas.