

Martinique dossier summary

Water, climate and crops. The essentials of the 15-page dossier.

Key figures

Figure	What it means
361,019	Inhabitants on 1 January 2022 (INSEE).
21,860 ha	Of agricultural area in 2020, for 2,658 farms (agricultural census).
4,400 ha	Irrigated in 2020, or 20% of the agricultural area (ministry of ecological transition).
13.9 Mm³	Of irrigation water declared in 2023, or 22.9% of declared withdrawals.
4,030 ha	Of sugar cane, and 5,580 ha of banana: The two export crops.
1.39 Mm³	Of irrigation water saved a year in the central scenario, enough to irrigate about 440 more ha.

M = million · Mm³ = million cubic metres · ha = hectares. The water savings are scenarios; no trial has yet been conducted in Martinique.

Our products

Green Solutions develops products for water, fertilisation and crop protection. Four families are of interest to this dossier.

Product	Claimed use	Published evidence (level)
EVERGREEN® (water-retention polymer)	Holds rain or irrigation water as a gel, near the roots.	Trials on maize, potato, watermelon, date palm and soybean. Level B to C.
ECOSORB® (water-retention polymer based on corn starch)	Same use; lasting 2 to 3 years according to the website.	Soybean trial (China); laboratory acrylamide analysis. Level B to C.
ECOFERT® (fertiliser)	Fertiliser certified by SOHISCERT and EU Bio, usable in organic farming.	Published certificate; potato trial with EVERGREEN®. Levels A and C.
Paulownia ALTIFOLIA®	Fast-growing tree for agroforestry.	Website figures; no trial in Martinique. Level C.

Key points

- **Drinking water dominates.** It represents 74% of declared withdrawals; irrigation, 22.9%.
- **Very uneven rainfall.** 1,174 mm a year at Le Lorrain, but 952 mm at Saint-Pierre.
- **An honest scenario.** No trial exists in a humid tropical climate: The calculation is limited to water, with the generic assumption of 5, 10 and 20%, with no yield gain.
- **Importing into Martinique.** French and European law apply: ANSES authorisation or CE marking (regulation 2019/1009), 8.5% VAT, octroi de mer to be checked product by product; the customs rate for subheading 3906.90 was not confirmed.

Irrigated crops and water

Crop group	Census area (ha)	Share of irrigation water
Banana	5,580	67.2%
Fresh vegetables	1,120	13.5%
Other fruit crops	1,150	13.9%
Tubers	450	5.4%

The zones at a glance

Zone (municipality)	Rainfall (mm/yr)	ET0 (mm/yr)	Temperature (°C)
Northern Caribbean coast (Saint-Pierre)	952	1,711	26.6
Northern Atlantic coast (banana) (Le Lorrain)	1,174	1,677	26.3
Centre (Lamentin plain) (Le Lamentin)	1,000	1,667	26.5
Central Atlantic coast (Le François)	1,064	1,641	26.3
Dry south (Sainte-Anne)	1,044	1,734	26.2

Water saved by scenario

Scenario	Water (Mm³/yr)	Extra hectares
Cautious	0.70	220
Central	1.39	440
High	2.79	880

How to read the figures

Each figure refers to a source with a confidence level. A: Official statistics or public database (INSEE, Ministry of Agriculture, French Biodiversity Agency, FAO, customs). B: Research institute, laboratory or recognised climate model. C: Manufacturer statement, website, press or estimate. The sources are listed in Annex A of the dossier.

Full dossier: 15 pages, with the sources (Annex A) and the calculation method (Annex B). Green Solutions · contact@green-solutions-group.com · green-solutions-group.com