

Republic of the Congo dossier summary

Water, climate, fertilisers and crops. The essentials of the 26-page dossier.

Key figures

Figure	What it means
+855 t	Of extra maize per 10,000 ha treated, central scenario (428 to 1,710 t depending on the scenario).
+13,539 t	Of extra potato per 10,000 ha treated, central scenario (6,769 to 27,077 t depending on the scenario).
162,292 ha	Of cassava, fresh harvested in 2024, the main crop (FAOSTAT).
2,000 ha	Equipped for irrigation, for 652,510 ha of cropland (FAOSTAT).
0.3 Mm³	Irrigation water saved per year in the central scenario, enough to irrigate about 324 more ha.
3,414 t	Mineral nitrogen used in 2024, all imported.
117 M$	Of agricultural exports in 2024, for $1,044 million of imports (FAOSTAT).

M = million · Mm³ = million cubic metres · t = tonnes. The gains are scenarios built from the trials cited; no trial has yet been conducted in Republic of the Congo.

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 Republic of the Congo. Level C.

Key points

- **Predominantly rainfed farming.** 2,000 ha equipped for irrigation, or 0.3% of cropland: The main challenge is to retain water from each rainfall event near the roots.

- **Where water is scarcest.** National water stress is below 0.1%; Pointe-Noire gets 1,022 mm of rain for 1,200 mm of evapotranspiration.
- **Rainfed crops quantified.** For maize and potato, a published trial makes it possible to quantify a yield gain.
- **In irrigation.** The "vegetables" group gives 57% of the water saved (watermelon, Mexico (2023)).
- **Importing into Republic of the Congo.** 10% customs duty (subheading 3906.90, CEMAC tariff, 2023); 18.9% VAT including the surtax; no fertiliser-specific text found, regime to be confirmed.

The regions at a glance

Region (city)	Rainfall (mm/yr)	Deficit (mm/yr)	Temperature (°C)
Brazzaville (Brazzaville)	1,620	-338	24.9
Pointe-Noire (Pointe-Noire)	1,022	178	25.2
Kouilou (Hinda)	1,469	-412	24.6
Niari (Dolisie)	1,543	-487	25.0
Bouenza (Madingou)	1,595	-447	24.8
Lékoumou (Sibiti)	1,756	-680	24.3
Pool (Kinkala)	1,620	-378	24.9
Djoué-Léfini (Odziba)	1,712	-442	24.3
Plateaux (Djambala)	1,511	-235	24.6
Nkéni-Alima (Gamboma)	1,647	-300	25.2
Cuvette (Owando)	1,678	-407	25.6
Cuvette-Ouest (Ewo)	1,510	-201	25.6
Congo-Oubangui (Mossaka)	1,576	-267	26.6
Sangha (Ouesso)	1,615	-351	25.5
Likouala (Impfondo)	1,582	-312	26.1

How to read the figures

Each figure refers to a source with a confidence level. A: Official statistics or international database (World Bank, FAO, Congolese public bodies (Ministry of Agriculture, National Institute of Statistics)). B: Research institute, laboratory or public body outside statistics. C: Manufacturer statement, website, press or estimate. The sources are listed in Annex A of the dossier.

Extra production per 10,000 ha treated

Crop	Average yield (t/ha)	Cautious (t)	Central (t)	High (t)
Maize	1.00	428	855	1,710
Potato	8.62	6,769	13,539	27,077

Trade

- **Main products exported.** Cocoa beans, coffee, green and bran of wheat, out of $117 million of agricultural exports in 2024.
- **Main imports.** Meat of chickens, fresh or chilled, palm oil and wheat; rice weighs $70 million, out of $1,044 million of agricultural imports.

Full dossier: 26 pages, with the sources (Annex A) and the calculation method (Annex B). Green Solutions · contact@green-solutions-group.com · green-solutions-group.com