

Democratic Republic of the Congo dossier summary

Water, climate, fertilisers and crops. The essentials of the 30-page dossier.

Key figures

Figure	What it means
+657 t	Of extra maize per 10,000 ha treated, central scenario (329 to 1,315 t depending on the scenario).
+315 t	Of extra soybean per 10,000 ha treated, central scenario (157 to 629 t depending on the scenario).
+7,180 t	Of extra potato per 10,000 ha treated, central scenario (3,590 to 14,360 t depending on the scenario).
5,710,796 ha	Of cassava, fresh harvested in 2024, the main crop (FAOSTAT).
11,000 ha	Equipped for irrigation, for 18,509,470 ha of cropland (FAOSTAT).
7.9 Mm³	Irrigation water saved per year in the central scenario, enough to irrigate about 1,201 more ha.
32,284 t	Mineral nitrogen used in 2024, all imported.
359 M$	Of agricultural exports in 2024, for $1,289 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 Democratic 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 Democratic Republic of the Congo. Level C.

Key points

- **Predominantly rainfed farming.** 11,000 ha equipped for irrigation, or 0.1% of cropland: The main challenge is to retain water from each rainfall event near the roots.
- **Where water is scarcest.** National water stress is 0.2%; Kalemie gets 1,118 mm of rain for 1,697 mm of evapotranspiration.
- **Rainfed crops quantified.** For maize, soybean and potato, a published trial makes it possible to quantify a yield gain.
- **In irrigation.** The "rice" group gives 84% of the water saved (generic assumption, no trial).

- **Importing into Democratic Republic of the Congo.** 5% customs duty (subheading 3906.90, 2019); 16% VAT; 2011 agriculture law: Input registration and import exemption, to be confirmed for our products.

The regions at a glance

Region (city)	Rainfall (mm/yr)	Deficit (mm/yr)	Temperature (°C)
Kinshasa (Kinshasa)	1,797	-510	24.8
Kongo Central (Matadi)	1,116	41	25.3
Kwango (Kenge)	1,354	-30	25.2
Kwilu (Bandundu)	1,455	-40	26.7
Mai-Ndombe (Inongo)	1,682	-430	26.3
Équateur (Mbandaka)	1,752	-466	26.2
Sud-Ubangi (Gemena)	1,614	-231	25.6
Nord-Ubangi (Gbadolite)	1,452	54	25.8
Mongala (Lisala)	1,716	-417	25.5
Tshuapa (Boende)	1,907	-667	25.1
Tshopo (Kisangani)	1,644	-395	24.9
Bas-Uele (Buta)	1,657	-367	24.5
Haut-Uele (Isiro)	1,938	-634	23.2
Ituri (Bunia)	1,187	235	22.6
North Kivu (Goma)	1,559	-360	17.5
South Kivu (Bukavu)	1,587	-391	18.3
Maniema (Kindu)	1,470	-250	24.3
Haut-Katanga (Lubumbashi)	1,126	439	20.8
Lualaba (Kolwezi)	1,157	469	20.7
Haut-Lomami (Kamina)	1,207	321	22.5
Tanganyika (Kalemie)	1,118	579	24.9
Lomami (Kabinda)	1,347	214	24.7
Sankuru (Lusambo)	1,442	-154	25.4
Kasai-Oriental (Mbuji-Mayi)	1,322	199	25.4
Kasai (Tshikapa)	1,306	-6	25.1
Kasai-Central (Kananga)	1,378	-48	24.9

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, INERA)). 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	0.77	329	657	1,315
Soybean	0.56	157	315	629
Potato	4.57	3,590	7,180	14,360

Trade

- **Main products exported.** Cocoa beans, coffee, green and natural rubber in other forms, out of $359 million of agricultural exports in 2024.
- **Main imports.** Wheat, cigarettes and flour-based food preparations; rice weighs $32 million, out of $1,289 million of agricultural imports.

Full dossier: 30 pages, with the sources (Annex A) and the calculation method (Annex B). Green Solutions · contact@green-solutions-group.com · green-solutions-group.com