

Argentina dossier summary

Water, climate, fertilisers and crops. The essentials of the 29-page dossier.

Key figures

Figure	What it means
+5,627 t	Of extra maize per 10,000 ha treated, central scenario (2,813 to 11,253 t depending on the scenario).
+1,664 t	Of extra soybean per 10,000 ha treated, central scenario (832 to 3,328 t depending on the scenario).
16,371,093 ha	Of soya beans harvested in 2024, the main crop (FAOSTAT).
2,100,000 ha	Equipped for irrigation, out of 48,935,935 ha of cropland (FAOSTAT).
3,308.1 Mm³	Irrigation water saved per year in the central scenario, enough to irrigate about 249,327 more ha.
1,386,706 t	Mineral nitrogen used in 2024, partly produced locally.
34,614 M$	Of agricultural exports in 2024, for $5,490 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 Argentina.

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 Argentina. Level C.

Key points

- **Predominantly rainfed farming.** 2,100,000 ha equipped for irrigation, or 4.3% of cropland: The main challenge is to retain water from each rainfall event near the roots.
- **Where water is scarcest.** National water stress is 10.5%; San Juan gets 137 mm of rain for 1,848 mm of evapotranspiration.
- **Rainfed crops quantified.** For maize and soybean, a published trial makes it possible to quantify a yield gain.
- **In irrigation.** The "other irrigated land" group gives 45% of the water saved (generic assumption, no trial).

- **Importing into Argentina.** Mercosur tariff of 2 to 14% depending on the line of subheading 3906.90 (average 9.3%); 21% general VAT; fertilisers and soil conditioners entered in the SENASA register.

The regions at a glance

Region (city)	Rainfall (mm/yr)	Deficit (mm/yr)	Temperature (°C)
Buenos Aires (Pergamino)	1,106	139	16.8
Catamarca (Catamarca)	469	1,050	18.5
Chaco (Resistencia)	1,423	13	21.7
Chubut (Trelew)	299	934	12.9
Corrientes (Corrientes)	1,423	13	21.7
Córdoba (Córdoba)	823	299	16.7
Entre Ríos (Paraná)	1,135	254	19.3
Formosa (Formosa)	1,430	65	22.7
Jujuy (San Salvador de Jujuy)	781	836	19.8
La Pampa (Santa Rosa)	783	240	15.7
La Rioja (La Rioja)	412	1,304	19.8
Mendoza (Mendoza)	290	1,492	16.9
Misiones (Posadas)	1,820	-733	20.9
Neuquén (Neuquén)	250	1,405	14.3
Río Negro (General Roca)	252	1,444	14.8
Salta (Salta)	766	594	13.9
San Juan (San Juan)	137	1,711	16.9
San Luis (San Luis)	680	914	16.6
Santa Cruz (Río Gallegos)	393	329	6.8
Santa Fe (Rosario)	1,080	186	18.0
Santiago del Estero (Santiago del Estero)	680	520	21.6
Tierra del Fuego (Ushuaia)	718	-313	3.5
Tucumán (Tucumán)	912	783	21.8

How to read the figures

Each figure refers to a source with a confidence level. A: Official statistics or international database (World Bank, FAO, Argentine public bodies (INDEC, SENASA, INTA, Secretariat of Agriculture)). 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	6.58	2,813	5,627	11,253
Soybean	2.95	832	1,664	3,328

Trade

- **Main products exported.** Maize (corn), soya bean cake and soya bean oil, out of $34,614 million of agricultural exports in 2024.
- **Main imports.** Soya beans, bananas and cocoa butter, fat and oil, out of $5,490 million of agricultural imports.

Full dossier: 29 pages, with the sources (Annex A) and the calculation method (Annex B). Green Solutions · contact@green-solutions-group.com · green-solutions-group.com