

Chile dossier summary

Water, climate, fertilisers and crops. The essentials of the 25-page dossier.

Key figures

Figure	What it means
198,067 ha	Of wheat harvested in 2024, the main crop (FAOSTAT).
1,108,560 ha	Equipped for irrigation, out of 1,908,900 ha of cropland (FAOSTAT).
3,989.1 Mm³	Irrigation water saved per year in the central scenario, enough to irrigate about 137,571 more ha.
240,960 t	Mineral nitrogen used in 2024, partly produced locally.
14,633 M$	Of agricultural exports in 2024, for $9,802 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 Chile.

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 Chile. Level C.

Key points

- **Irrigation, a pillar of production.** 1,108,560 ha equipped for irrigation, or 58.1% of cropland: Every cubic metre saved frees water for other plots.
- **Where water is scarcest.** National water stress is 9.0%; Iquique gets 11 mm of rain for 1,463 mm of evapotranspiration.

- **In irrigation.** The "other irrigated land" group gives 30% of the water saved (generic assumption, no trial).
- **Importing into Chile.** Uniform 6% duty for subheading 3906.90, often zero under trade agreements; 19% VAT; fertilisers and biostimulants governed by Law No. 21,349 (register and labelling checked by the SAG).

The regions at a glance

Region (city)	Rainfall (mm/yr)	Deficit (mm/yr)	Temperature (°C)
Arica y Parinacota (Arica)	23	1,195	19.6
Tarapacá (Iquique)	11	1,452	17.9
Antofagasta (Antofagasta)	7	1,273	17.8
Atacama (Copiapó)	36	1,364	16.4
Coquimbo (Ovalle)	109	1,333	16.8
Valparaíso (Quillota)	312	975	15.2
Santiago Metropolitan (Santiago)	308	1,215	15.2
O'Higgins (Rancagua)	351	1,087	14.5
Maule (Talca)	624	617	14.7
Ñuble (Chillán)	759	264	14.3
Biobío (Los Ángeles)	880	50	13.1
Araucanía (Temuco)	1,064	-192	11.3
Los Ríos (Valdivia)	1,237	-462	10.8
Los Lagos (Osorno)	1,240	-514	10.5
Aysén (Coyhaique)	866	-365	4.7
Magallanes (Punta Arenas)	581	-62	6.3

How to read the figures

Each figure refers to a source with a confidence level. A: Official statistics or international database (World Bank, FAO, Chilean public bodies (INE, ODEPA, SAG, National Irrigation Commission)). 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.

Water saved by scenario

Scenario	Water (Mm^3/yr)	Extra hectares
Cautious	1,994.6	68,786
Central	3,989.1	137,571
High	7,978.3	275,143

Trade

- **Main products exported.** Cherries, wine and grapes, out of $14,633 million of agricultural exports in 2024.
- **Main imports.** Boneless beef, fresh or chilled, maize (corn) and soya bean cake, out of $9,802 million of agricultural imports.

Full dossier: 25 pages, with the sources (Annex A) and the calculation method (Annex B). Green Solutions · contact@green-solutions-group.com · green-solutions-group.com