

# **WATER USE EFFICIENCY PROGRAM**

Updated as of May 2026

## **1** **OUR APPROACH**

## **2** **WATER CONSUMPTION - OUR CONTEXT**

## **3** **WATER RISK MANAGEMENT**

## **4** **WATER EFFICIENCY IN RICE BUSINESS**

# **WATER EFFICIENCY PROGRAM**

## **OUR APPROACH**

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### • GENERAL OVERVIEW •

Since inception we have been developing sustainable production models to generate food and renewable energy, with a focus on the efficient use of natural resources.

As an agribusiness company, water is essential to our field production, particularly in our rice operations. Water is among Adecoagro's top 10 material topics, reason why we constantly search for **efficiencies** to reduce and **optimize the use of this resource**.

For years, we've been adopting **advanced irrigation technologies**, and we continue to expand these practices across the hectares of our rice fields. Our eagerness for efficiency and environmental stewardship drives us to adopt **innovative solutions** that further **minimize our water footprint**.

In our Environmental Policy, we state our **commitment to preventing water pollution and promoting the responsible use of this vital resource**. As part of our ongoing governance and management processes, we review and discuss sustainability-related trends, risks and opportunities with our Board of Directors. These discussions assess the environmental, social, economic and governance impacts across each of our businesses. Key environmental indicators monitored include carbon balance, water consumption, renewable energy generation, energy consumption, effluents and waste management.

# WATER PROGRAM

## Our Commitment



### • WATER INTENSITY COMMITMENT – SINCE OUR ORIGIN AND GOING FURTHER •

As an agribusiness company, water is essential to our field production, particularly in our rice operations. Water is among Adecoagro's top 10 material topics, reason why we constantly search for **efficiencies** to reduce and **optimize the use of this resource**.

For years, we've been adopting **advanced irrigation technologies**, and we continue to expand these practices across the hectares of our rice fields. These technologies have allowed us to **reduce water consumption in irrigation by up to 30%**. Our eagerness for efficiency and environmental stewardship drives us to adopt **innovative solutions** that further **minimize our water footprint**.

As outlined in our Environmental Policy, we remain **committed to preventing water pollution and promoting the responsible use of this vital resource** .

# **WATER CONSUMPTION**

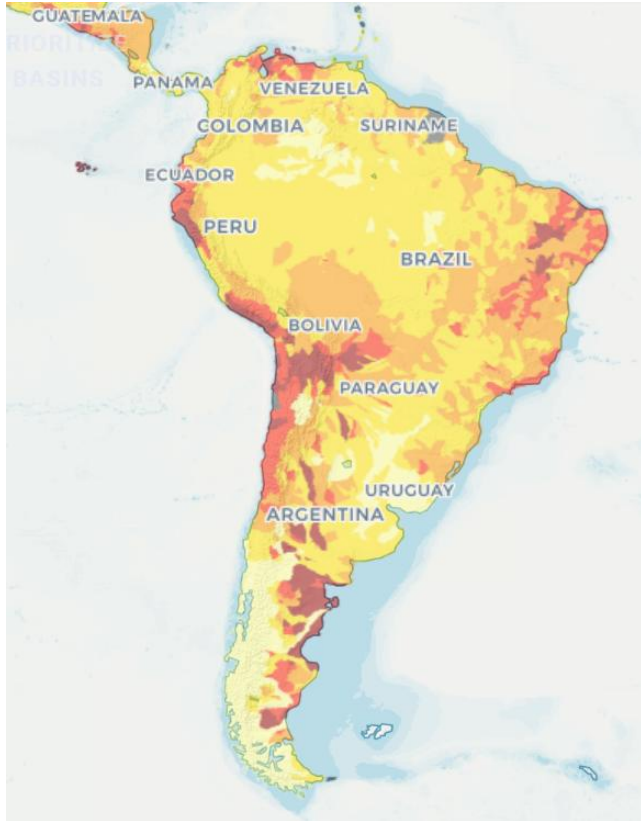
## **OUR CONTEXT**

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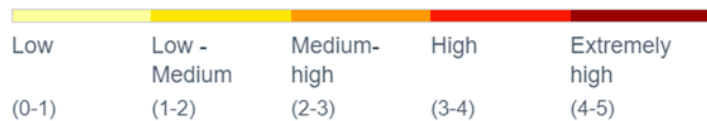
# WATER PROGRAM

## Water Supply

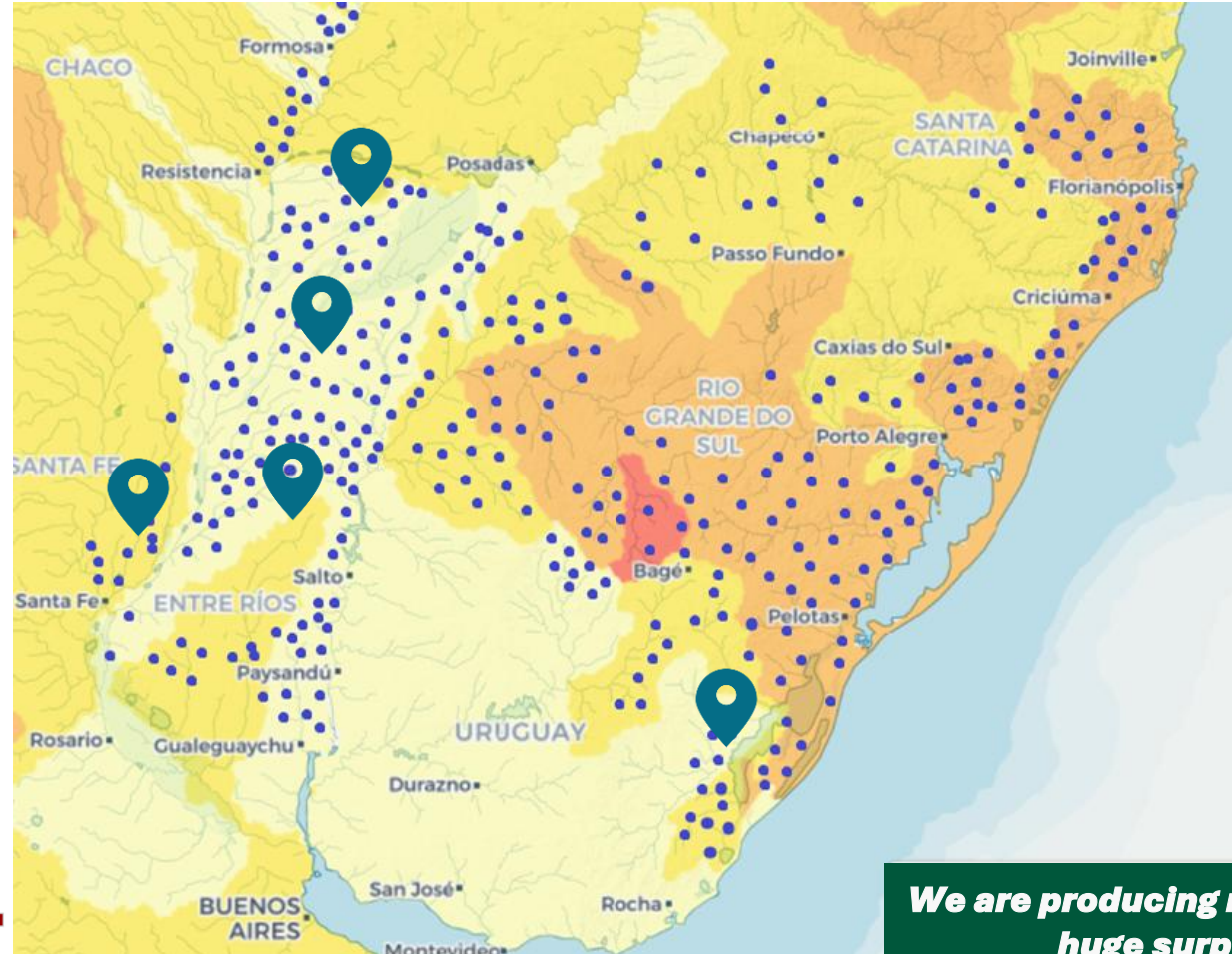
### • GLOBAL WATER RISK – SOUTH AMERICA •



Overall Water Risk



AQUEDUCT BETA WATER RISK ATLAS



- Rice production area
- 📍 Adecoagro's rice operations

**We are producing rice in regions with a huge surplus of water**

# WATER PROGRAM

## Water Use

### • WATER WITHDRAWAL ANALYSIS •



**88% of the 608k ha\*** of our total planted area is **rained only**. The 12% balance (75k ha) that is irrigated corresponds mainly to rice fields, and some crop fields.



**Rice business consumes more water** than other businesses since the production of the **rice grain requires the full irrigation of the crop** for approximately 90 days.

## ADECOAGRO'S WATER WITHDRAWAL

*Adecoagro does not withdraw water in water-stressed areas.*

Water withdrawal in m3	2021	2022	2023	2024	2025
Rice fields	426,726,485	574,759,553	495,223,485	501,874,804	625,634,341
Other Argentina & Uruguay	4,921,397	7,561,966	9,343,520	11,460,055	11,517,322
Brazil	7,216,470	6,421,720	6,124,774	6,637,211	6,151,540
<b>Total</b>	<b>438,864,353</b>	<b>588,743,240</b>	<b>510,691,779</b>	<b>519,972,069</b>	<b>637,151,663</b>
<b>Rice fields (%)</b>	<b>97%</b>	<b>98%</b>	<b>97%</b>	<b>97%</b>	<b>98%</b>
<b>Rice hectares</b>	<b>44,282</b>	<b>60,857</b>	<b>55,648</b>	<b>58,452</b>	<b>65,369</b>

**98% of our water consumption corresponds to rice fields, therefore our main efforts for action are in this business**

\* Refers to year 2025

# **WATER RISK MANAGEMENT**

## **OUR FOCUS**

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### • OUR WATER RISK MANAGEMENT APPROACH •

- As an agribusiness company, water is critical for our field production, especially in our rice business.
- Extreme weather events such as floods or droughts can affect the flows and volume of water available used for our crop production, impacting as well in soil erosion.
- To face and overcome possible water risks, we have different technologies and practices in place:

### OUR WATER RISK MANAGEMENT APPROACH



#### Regenerative agriculture

Implementing practices that help us care for the soil and improve water infiltration leading to lower water requirements

- Precision agriculture
- No-till
- Cover crops
- Land-levelling



#### Efficient irrigation technologies

Adopting technologies that lead to lower water requirements for production

- Precision leveling and polypipes
- Drones
- Satellite images
- Buoys, levels and hoses
- IoT nodes
- Weather forecasts



#### Productivity efficiencies

Enhancing productivity efficiencies lead to lower water requirements, mitigating the impact of extreme weather events

**Flexibility in our production plan** allows us to adapt sowing based on weather forecasts, including the adjustment of crop rotations and planting schedules

# **WATER EFFICIENCY**

## **RICE BUSINESS**

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## Water Use

### • OUR WATER MANAGEMENT APPROACH •

Water is a critical factor for rice production, so we focus our efforts on improving water use efficiency in our irrigation process.

#### Our water management approach is based on the following pillars



#### Efficient irrigation technologies

We have efficient irrigation technologies in place such as **precision leveling (zero level)** and **polypipes** that help to **reduce water consumption by up to 30%**.

In 2025, **100% of our own rice fields hectares** were irrigated using **efficient-irrigation technologies** (85% when including leased area).



#### Enhancing efficiency with technology

We implement innovative technologies to enhance irrigation efficiency such as drones, satellite imagery, electronic buoys and sensors:

- **100% of ha** with satellite imagery and drones to flag irrigation issues.
- **2,600 electronic buoys** installed, monitoring 27,800 ha.
- **Sensors** in place to monitor the water level in channels.
- **Automated pumping** process in 95% of ha.



#### Measuring our water footprint

We track our **water intensity** and footprint as part of our water management to improve even further our water consumption efficiency.

# RICE BUSINESS

## Low-water intensity producers

98% of our water consumption corresponds to rice fields, therefore our main efforts for action are in this business



### Flexibility in production plans

Supported by the **flexibility of our production plans**, we use weather forecasts to define sowing plans, and anticipate rainfall to activate water inlet gates protocols



### Efficiency in irrigation days

Our **irrigation calendar** (90 days) is well **below the world's average** of 113 days as per IPCC



### Efficient irrigation technologies

Polypipes and precision leveling in **85% of rice hectares** (100% considering only our own) **reduce water consumption by up to 30%**



### Smart irrigation management

We implement additional technologies to enhance water consumption efficiency

- **2,600 electronic buoys**
- **IoT nodes** monitor water levels
- **95% of ha with automated pumping systems**
- **Sensors** to monitor water levels in channels



### Measuring our water intensity

Fundamental to effective water management and to identify new efficiency opportunities



### Recycling of water

We **recycle the water** that leaves some of our rice fields by returning it to the channels, where it is reused in the rice irrigation process



### Data driven optimization

**100% of rice fields use drones and satellite imagery** to flag plots with irrigation issues, enabling rapid correction and avoiding resource waste

**Rice fields Water Intensity 2025 = 1,217 m<sup>3</sup>/ton**

Water intensity as m<sup>3</sup> of water per ton of rough rice produced in our rice fields.

### • EFFICIENT IRRIGATION – PRECISION LEVELING (ZERO LEVEL) •



#### MAIN FEATURES

- Irrigation is critical to rice yield and cost of production
- With precision leveling, **fields are perfectly leveled**, and have a square shape
- We were **pioneers in introducing this technology** in the region



#### MAIN BENEFITS

- It helps us **reduce water consumption by 30%**, energy consumption by 44% and its associated GHG emissions
- It allows us to perform a **better irrigation management**, leading as well to a more controlled irrigation calendar scheme potentially reducing GHG emissions derived from the irrigation process
- Lower water and energy consumption, **reduces the irrigation cost**



**Precision Leveling: 44,259 ha**



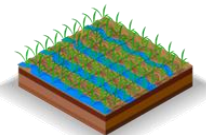
Less Water



Advanced Technology



Sustainable Production



Precision Leveling

### • EFFICIENT IRRIGATION – POLYPIPES TECHNOLOGY •



#### MAIN FEATURES

- We use this technology in hilly farms, where Precision Leveling is not feasible
- Water is conducted through **polyethylene tubes** (different sizes for different flows and field sizes)
- No dirt-based channels are needed



#### MAIN BENEFITS

- **20%-30% less water and 35% less energy consumption** (lower cost and GHG emissions associated)
- It enables more **efficient irrigation management**, resulting in a more controlled irrigation schedule and a potential GHG emissions reduction associated with this process.
- **Lower erosion risks** (as dirt-based channels are avoided)



**Polypipes : 11,434 ha**

### • ENHANCING EFFICIENCY – TECHNOLOGY FOR MONITORING •



#### MAIN FEATURES

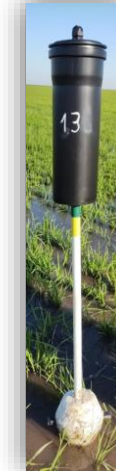
- We are measuring the water-flow from the river and channels to the fields; it is connected through IoT
- We are monitoring water levels on our fields with Drones and Satellite imagery
- This methodology helps us to be more efficient by optimizing water usage and enhancing rice productivity

#### DRONES

- Visible RGB
- Thermal

#### SATELLITE

- NDVI



# RICE BUSINESS

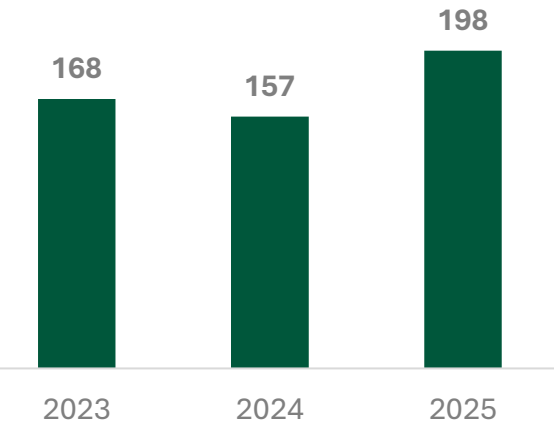
## Water Footprint

### • MEASURING OUR WATER FOOTPRINT •

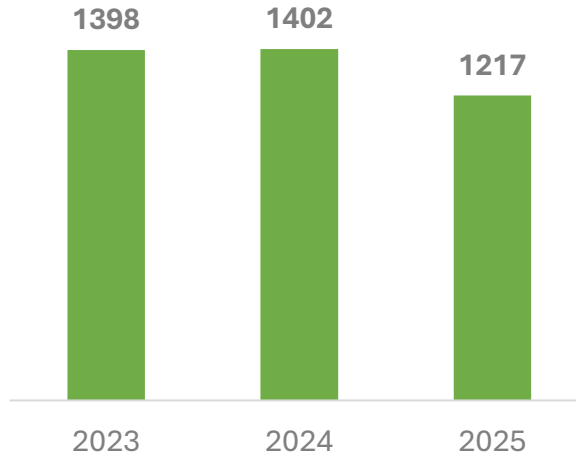
Measuring our water intensity is fundamental to effective water management, allowing us to track consumption per unit of production and identify opportunities to further improve efficiency.

We measure it at total company level and specifically for rice fields, since 98% of water consumption is associated to rice irrigation.

**Water Intensity - Total Company**  
(m3 of water per ton produced)



**Water Intensity - Rice fields**  
(m3 of water per ton of rough rice)



Note: The upward trend in the water intensity at the total company level is primarily driven by lower TRS production in our SE&E business, resulting from fewer effective milling days due to weather conditions. Additionally, in our Rice business, despite record yields and harvest volumes, a smaller share of rice was processed, with the remainder stored as part of our commercial strategy.

### WATER FOOTPRINT NETWORK (WFN) METHODOLOGY

- During 2021 we carried out a pilot in Doña Marina farm (almost 12,000 ha)
- The methodology includes direct and indirect use of water
- It also assesses 3 types of footprint

### WATER FOOTPRINT PILOT RESULTS:

<b>GREEN FOOTPRINT:</b> Rainwater	<b>491</b> Lt/kg
<b>BLUE FOOTPRINT:</b> Fresh water used for irrigation	<b>796</b> Lt/kg
<b>GREY FOOTPRINT:</b> Fresh water required to assimilate pollutants	<b>195</b> Lt/kg

Similar to our own estimations (1,217 lt/kg\*)



water footprint network **1,482** lt/kg



# WATER USE EFFICIENCY PROGRAM

Please [CLICK HERE](#) to access our Sustainability website

Please [CLICK HERE](#) to access our 2025 Integrated Report

