Rainbow Trout Farming Use Case In Spain

Conducted by Acuicultura JHC, S.L. / Smartwater Planet In Spain

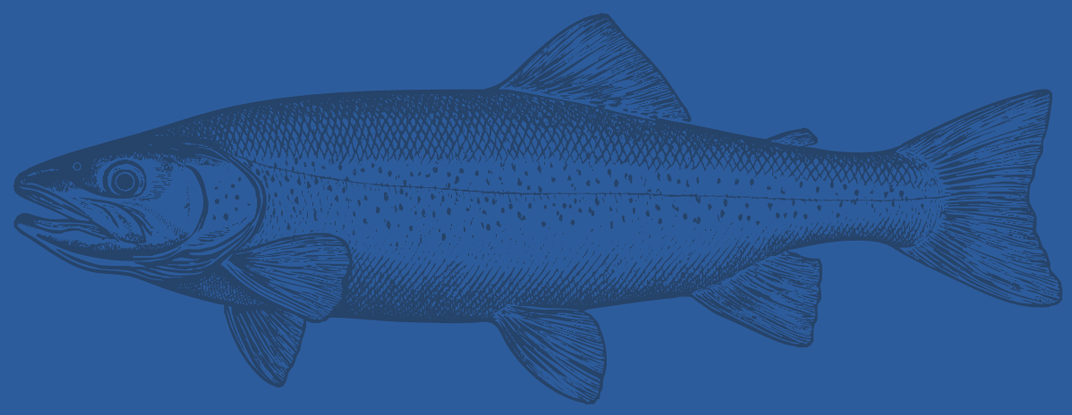
SEA2SEE

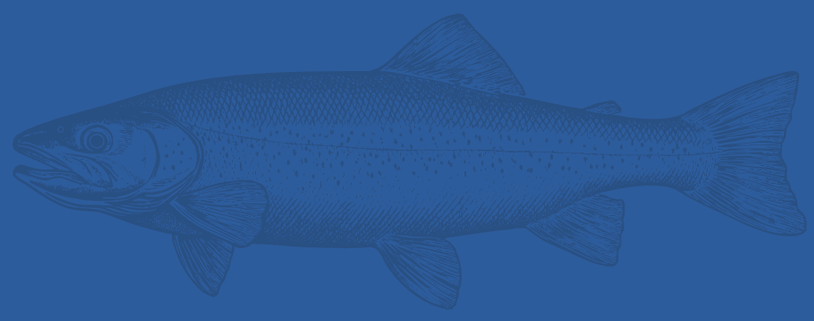
The Rainbow Trout

The Rainbow Trout (*Oncorhynchus mykiss*) is a freshwater fish, belonging to the family of the Salmonids. It is an active predator and feeds naturally on almost anything they can capture, including insects and small fish.

The fish can be found naturally in cold-water rivers of the **Pacific Ocean** in Asia and **North America**.

Rainbow trout was the most valuable species farmed in the **EU** in **2023**, **accounting for 17.7%** of all aquaculture production.





Most production facilities are **land based**, built on the **banks of rivers**, or their sources, which take advantage of the **gravity circulation of water**.

In many occasions these are small production operations in rural communities, sometimes family owned, with special attention to the **quality** and **sustainability** of the product

Rainbow trout production is changing in recent years to **larger trout farming**.

The case study

The fish farm is located in **Cifuentes (Guadalajara).** It uses the water of the river that gives its name to the municipality, 2,900 meters from its source.

The vision of the farm is the respectful and **sustainable breeding of fish**, which puts animal welfare and the passion for traditional fish farming at the heart of their activity.

Objectives of the case study

- To have full **digital traceability** of the process through Smartwater Cloud for at least two full batches of production.

- To have a full chemical and nutritional analysis of the **trout** throughout the seasons.

- To convey the **values of sustainable** farming down the value chain to the final consumer

Where are we now?

- **Three extensive analysis** of the trouts have been produced, both nutritional and chemical

- The results obtained are being used in the **Life Cycle Analysis** studies

- **Smartwater Cloud** and **Medusa** allow to record daily activities and environmental parameters, on several batches of trout

- These data are being uploaded to the **SEA2SEE Traceability Platform** to verify traceability of the products down the line

"For us, participating in the **SEA2SEE** project is interesting because traceability is a growing demand from consumers. For a fish farm like ours, which puts **quality** at the centre, these tools can help give greater visibility to the work behind the careful breeding of our fish. In addition, water is a basic resource for fish farming, and the introduction of the "**Medusa**" tool for continuous water quality monitoring should be very useful in our daily work."

Joaquín Checa Herraiz, Owner and CEO of JCH Acuicultura

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