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## 2023 SALMON INDUSTRY BALANCE\*:

# Lower Mortality, Higher Yield (kg/smolt) and Increased of Harvest Biomass the Outstanding Indicators of the year 2023\*

Good productive results continue to be recorded by the industry in the 3 cultivated species, again mainly associated with low mortality, a higher harvest weight and as a result an increase in yield (kilos harvested/smolt).

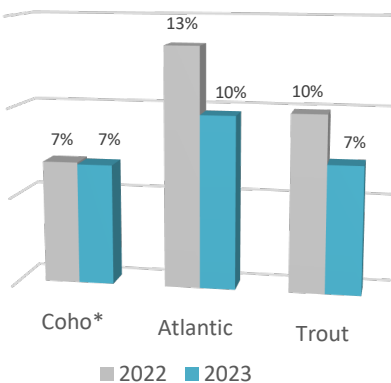
### Mortality

**Atlantic Salmon** had a 9.7% of accumulated mortality in closed groups in 2023, 28% lower than that registered in previous year, which closed with 13.4%. In the case of **Rainbow Trout** also registered a lower accumulated mortality in 2023 respect year 2022, reaching 7.2% (vs. 9.9% in 2022) and **Coho Salmon**, accumulated mortality reach 6.8% (Season 2023, to date. Season still open).

Therefore, 2023 productivity balance shows a total amount of dead fish equivalent to 25.3 million during the growout stage. Per species, 18.1 million correspond to **Atlantic Salmon**, 5.6 million to **Coho Salmon** and 1.5 million to **Rainbow Trout**.

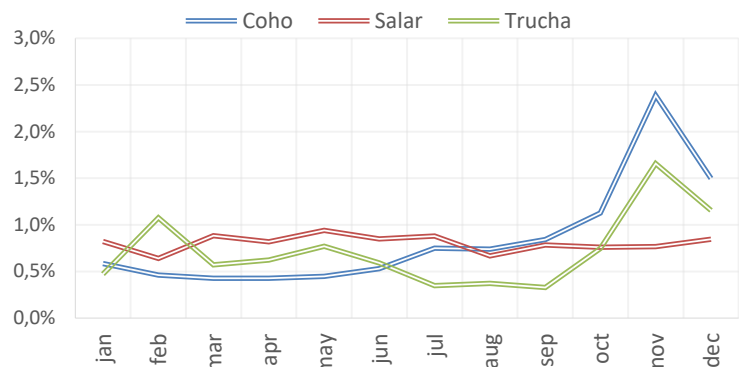
26% of the total mortality for the year corresponded to Mechanical Damage and 25% to Infectious causes (SRS with 33% and Tenacibaculum with a 29% share of total infectious causes).

**Accumulated Mortality**  
2022 vs 2023



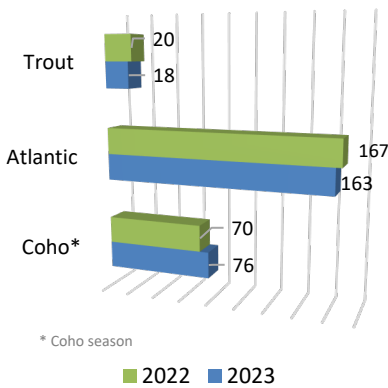
\* Coho season, still open

**Monthly Mortality**  
2023



# NEWS Letter

## Smolt stocking Year 2022 vs 2023 (million smolt per species)



## Smolt Stocking

In 2023, there was an average decrease of 2% in smolt stocking, in relation to the previous year, reaching a total amount of 256.6 million smolt transferred to the sea compared with 261.0 million recorded during 2022 for the three species farmed.

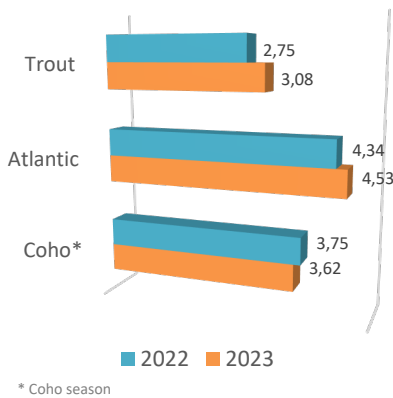
Per species, the numbers show a decrease of 14% in **Rainbow Trout** and increase of 10% in **Coho Salmon** (season) and decrease of 2% in **Atlantic Salmon**. Smolt stocking of Atlantic salmon distribution through the year was: Q1 = 21%, Q2 = 27%, Q3 = 28% and Q4 = 24%.

The weight of the fish when transferred to the sea in 2023 was higher in relation to the previous year for two species: Atlantic Salmon 179 g. (↑7%), Coho Salmon 293 g. (↑22%). Rainbow Trout decreased an 15% (210 g).

## Biomass and the Number of Fish

The information shows that, at the end of 2023, there was almost no variation (-3%) of the number of live fish compared with year 2022, with an estimation of a total of 216,4 million fish (considering the 3 species). By species, **Rainbow Trout** was the specie that shown more variation (12% increase) in the number of live fish at the end of 2023 (17,4 million live fish). **Coho Salmon** recorded a variation of -5% (26.7 million of live fish). On the other hand, **Atlantic Salmon** showed a slight decrease of the number of live fish (-4%), reaching 172.2 million live fish at the end of 2023.

## Industry Yield (kg harvested / smolt)



Regarding living biomass during the growout stage, the analysis reveals no variation (0%) in relation to the end of year 2022, with a total of 476,777 tons at the end 2023 for the three species. Per species, **Atlantic Salmon** – that represents 77% of the total living biomass – shows an decrease of 3% in relation to the end of the previous year, reaching 366,316 tons. Likewise, the biomass of **Rainbow Trout** shown an increase of 49% and **Coho Salmon** an increase of 1%.

## Productivity

The lower mortality had an upward impact on the productivity (kg/smolt) in **Atlantic Salmon**, which reached **4.53** kg harvested per smolt (closed cycles in 2023), amount that is 4% higher than the amount registered in 2022. In the case of **Rainbow Trout**, an increase in the yield of 12% was also observed, reaching **3.08** kg harvested per smolt, whereas for **Coho Salmon**, it decreased 3%, reaching **3.62** kg harvested per smolt (as a season, still open, so the numbers can change).

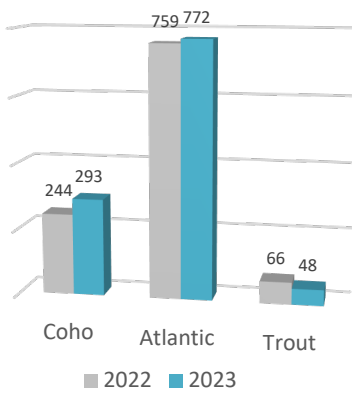
2024  
February

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## Industry Harvest Year 2022 vs 2023

(thousand tons WFE)



## Harvest

The total biomass harvested by the whole industry for the three species for year 2023 reached **1,113,412** tons (WFE\*), amount which is 4% higher than the previous year and the highest recorded historically. Per species, the accumulated harvested volumes (WFE) at the end of 2023 reached **772,361** tons for **Atlantic Salmon**, **48,077** tons for **Rainbow Trout** and **292,974** tons for **Coho Salmon**. These numbers represent an increase in harvest for the period of 48,612 tons for Coho Salmon, 13,227 tons for Atlantic Salmon and a decrease of 18,086 tons for Trout.

In 2023, the average harvest weight for Atlantic Salmon was 5.1 kg, it was 4.1 kg for Coho Salmon and 3.4 kg for Rainbow Trout.

WFE = Whole Fish Equivalent: Unit used to measure the raw material, it corresponds to round bled live weight

% Accumulated Mortality = Total N° of dead fish / initial N° of fish transferred

Biomass Produced = Dead biomass + Harvested biomass + Living biomass at the end of a period

% Dead Biomass = Kg of dead biomass / Kg of biomass produced

\*Smolt Stocking: transfer of fish (called smolts at this stage of their life cycle) to sea water farming sites to begin the growout stage

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