

Liberté Égalité Fraternité







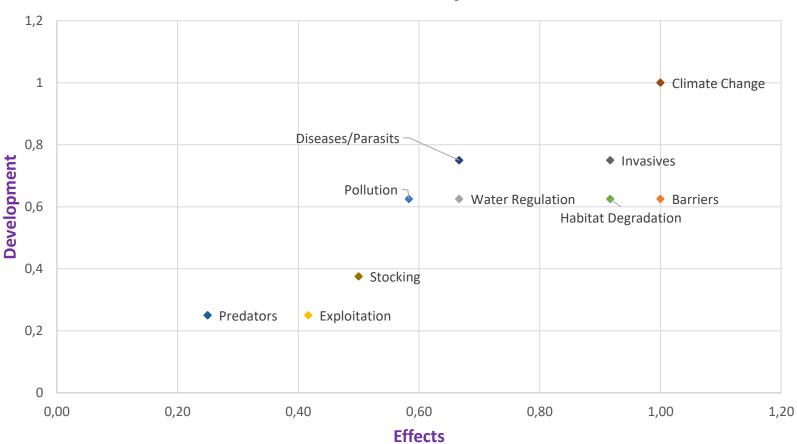
STRESSOR ANALYSIS



MAIN THREATS

Stressors analysis





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STRESSOR ANALYSIS



MAIN THREATS

ICES 2015 (WGERAAS)	IUCN equivalent
Stressor 1 Pollution	9. Pollution
Stressor 2 Barriers	7.2. Dams & water management/use
Stressor 3 Water Regulation	7.2. Dams & water management/use
Stressor 4 Exploitation	5.4. Fishing & harvesting aquatic resources
Stressor 5 Aquaculture	2.4. Marine & freshwater aquaculture
Stressor 6 Habitat Degradation	depending on the source: 2 agriculture, 1. urban, 4. transportation and 7. natural system modification
Stressor 7 Diseases/Parasites	8.2. Problematic native species/diseases
Stressor 8 Climate Change	11. Climate change & severe weather
Stressor 9 Invasives	8.1 Invasive Non-Native/Alien Species/Diseases
Stressor 10 Stocking	8.3 Introduced Genetic Material
Stressor 11 Predators	8.1 or 8.2









STRESSOR 1



CLIMATE CHANGE

Climate change causes:



- affects reproduction, growth and seasonal rhythms.
- accelerates the maturation and development of salmon ovaries, reducing their lifespan and size.
- reduces O2 content, which then becomes limiting for aquatic organisms.

Changes to river regimes, with:

- lower average river flow
- more severe and longer low-water periods, which have a major impact on the ability of diadromous fish to migrate.

Diadromous fish modified timing of upstream migration over the last 30 years in France





STRESSOR 2



INVASIVE & PREDATION



Very few Alien species have been identified as problematic for salmon. However, some species, such as the catfish (*silurus glanis*), are the object of attention due to their predation.





oil - Environnement - Dâch

Accueil · Environnement · Pêche



STRESSOR 3



BARRIERS



In 2020, one structure considered as an obstacle to flow (i.e. dam, weir, bridge, fish farm, etc.) is present every 5 km in France:

- It hinders upstream migration forced reproduction of spawners in unsuitable areas
- It delays migration, preventing individuals from reaching the best habitats.

cumulative effects have:

- significant impacts on migration success, reproduction and survival of individuals (delays, exhaustion, injuries, mortality)
- encourage grouping of individuals, whether at the foot of the dam or at fish passage structures, increasing the risk of predations

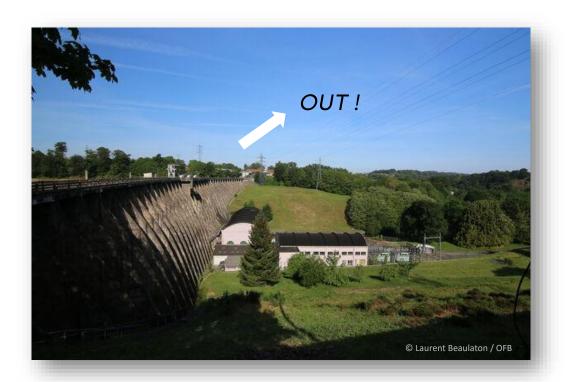




BARRIERS

Actions HO1-1.2

- 1- Implementation of appropriate means to limit the impact of key structures
- 2- publication of a guide to the ecological restoration of habitats
 - → LIFE Biodiv'France







Action « Ouvrages » (HO1-1.2)

- → Collective identification of 25 key structures, including 5 pilot structures
- → Drafting of operational action plans (solutions to be implemented + costing of work)

→ Expected results :

2032 (fin LIFE)

2037

13 structures restored

- 5 pilote structures
- 8 « others »

+ 12 structures restored



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Thank you!

Le 04 juin 2025