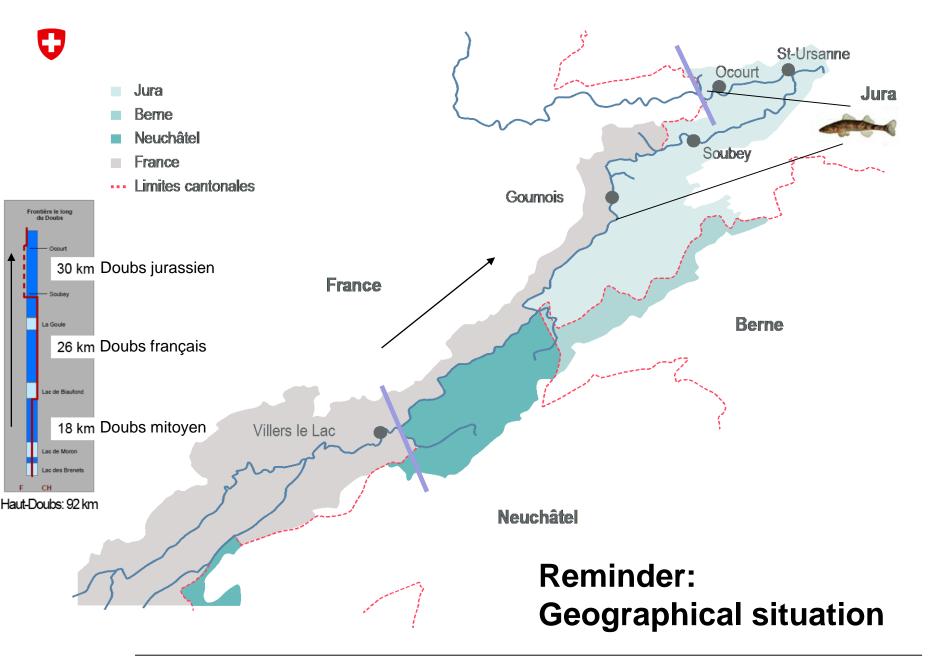


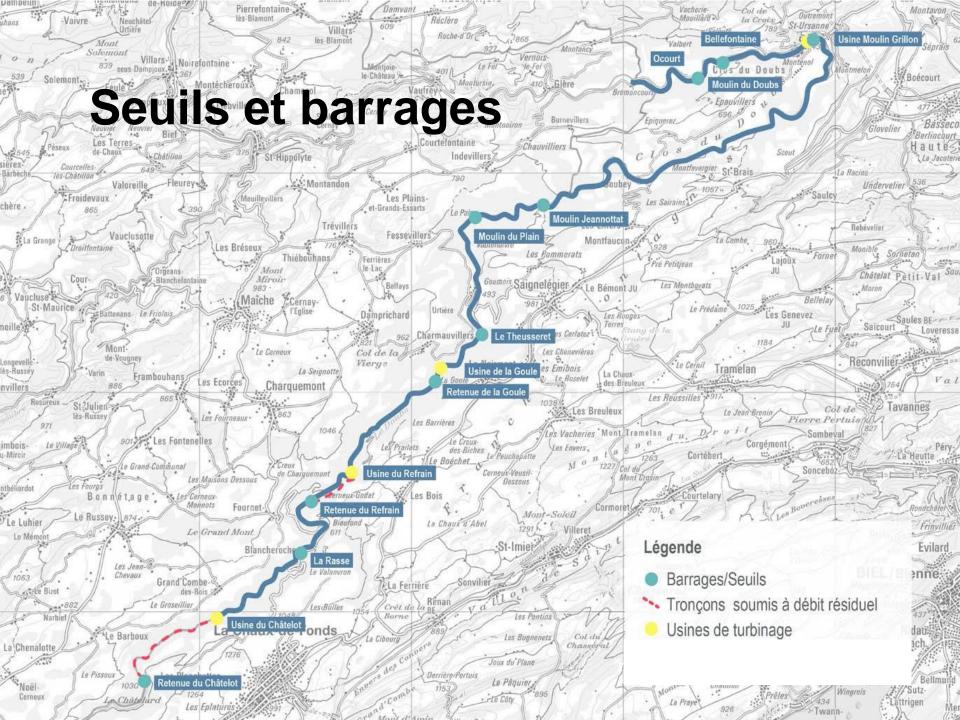
Office fédéral de l'environnement OFEV

Swiss National Action Plan for the Restoration of the River Doubs

38th Standing Committee meeting of the Bern Convention Strasbourg, 27 – 30 november 2018

Photo: Aquarius







Swiss National Action Plan

Response of the Swiss Confederation and cantons NE and JU to the 14 points of the recommandation No 169 (Bern Convention)

Main Objectives

- To restore the functions of the Doubs ecosystems (frontiers and Jura) and to conserve the typical biocenosis of the Doubs and its tributaries
- Long term conservation of the apron
- → Global and pragmatic approaches
- → Measures decided at international and national levels



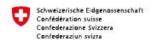
General Device

→ One Action Plan = Two Documents

http://www.bafu.admin.ch/publikationen/publikation/01826/index.html?lang=fr







Plan d'action national en faveur du Doubs Démarche générale

Réponse à la recommandation N° 169 du Comité permanent de la Convention de Berne Avec la collaboration des cantons de Neuchâtel et du Jura et de l'Office fédéral de l'énergie (OFEN)

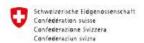


General Approach

- → Legal context
- → Implementation strategy
- → Current situation
- → Pressure on natural environments
- → Organization

6 strategical axis:

- Hydrological Regime (100)
- Physico-Chemical Water Quality (200)
- Ecomorphology, Connectivity of the aquatic Habitats (300)
- Natural Habitats, Connectivity and Species (400)
- Research and Monitoring (500)
- Communication (600)



Plan d'action national en faveur du Doubs

Catalogue de mesures

Réponse à la recommandation N° 169 du Comité permanent de la Convention de Berne Avec la collaboration des cantons de Neuchâtel et du Jura et de l'Office fédéral de l'énergie (OFEN)



Catalog with a list of concrete measures for each strategical axis

Catalog 2016 → 22 measures

Catalog 2017 → 18 measures (since 2016: 7 realized, 3 new ones)

Catalog 2018 → 21 measures (since 2017: 3 new ones)

Measures are discussed in an advising board



Advising board



- → Federal authorities (OFEV, OFEN)
- → Cantonal authorities NE + JU: Water Protection, Nature & Landscape, Fisheries, *Agriculture in 2019 (?)*
- → NGO (WWF ProNatura FSP)
- → PNRD

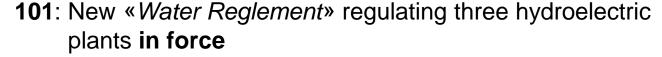
Tasks

- To accompain the implementation process
- To advise the authorities by the implementation
- To propose new measures
- To promote the exchange of information
- To ensure the same level of information between the different partners
- To check the progression of the action plan



Work in progress

→ Measures achieved





- 201: Improvements of different sewage treatment plants (STEP) in NE and JU
 - → **Technical adaptations** of different wastewater treatment plants (Saignelégier, Epiquerez)
 - → Equipment for a micropollutant treatment stage in Chaux-de-Fonds (budget accepted in 2018)
- 202: Improvements of the connecting systems of wastewater in NE and JU
 - → Planification plan and connecting systems (Epauvillers, Saint-Ursanne, Montmelon, Seleute)
- 203: Assessment of the flux of pollutants in the River Doubs
 - → **Priorities identified** based on a modelisation
- 204, 206, 207: Permanent survey of the water quality
 - → Fixed station in Ocourt and mobile station, both in operation
 - → New station NAWA on the Doubs (entrance of the system)
- **302**: **Restoration** of 5 tributaries of the Doubs



→ Measures achieved

- 502, 503: Genetical analysis of the apron
 - → Genetic structure of the Doubs population is known
 - → e-DNA as a new identification method



- **601**: Advising board in operation
- **602**: Documentation about the apron
 - → DVD and CD, different material for school, exhibition.... available
- 603: Communication and sensibilisation by the local population
 - → Flyer on the «Réserve cantonale du Doubs» available
- **604**: Preventive measures to assure good health of the aquatic fauna
 - → Flyer of good practice available



→ Measures implemented and in progress



102, 103: Monitoring new «*Water reglement*» (temperature, discharge, stranding, spawing of trout and grayling, electric fishing) and measures hydropeaking T2

201: Improvements of different sewage treatment plants in NE and JU

→ Further improvements (for exemple Le Locle)

202: Improvements of the connecting systems of wastewater in NE and JU

→ Further improvements

205: Project Chlorokarst → Detection program of HCC will start in 2019

301: Enough space for the river

303-304-305: Restoration of the fish migration at three obstacles

402: Management plan for three alluvial zones of national importance

403: Base for the implementation of an ecological infrastructure

501, 504: Monitoring apron → continuation of the program

605: Action plan tourism and nature → program 2016-2020



→ Measures in «stand by»

306: Restoration of the tributary Ruisseau du Moulin

401: Emerald management plan «Clos du Doubs»



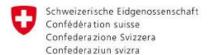


→ Implementation of measures on a good way

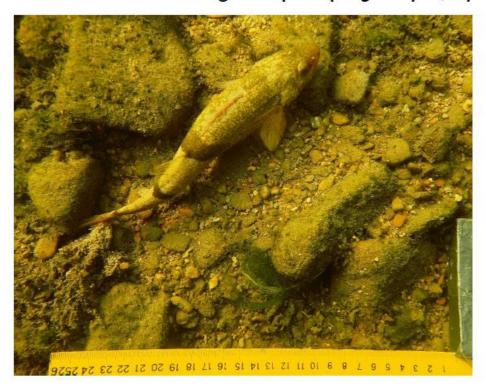
→ Collaboration with NGO established

...... BUT.....

→ Situation of apron remains in a critical stage!



Monitoring de l'apron (Zingel asper, L.)



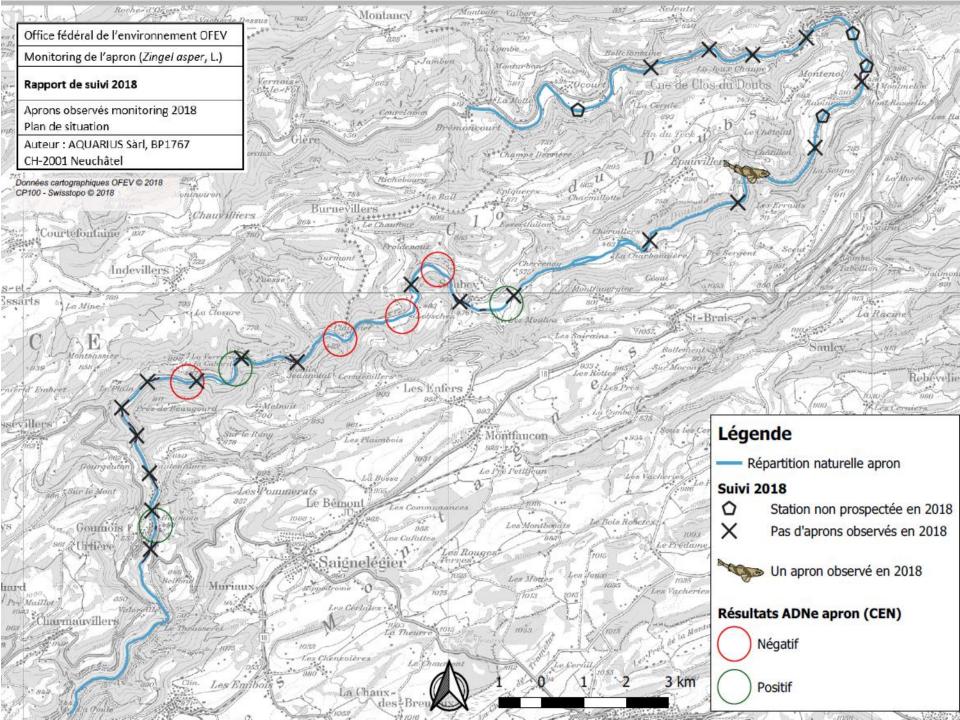
501 Monitoring apron

Situation followed since 2000.

Results 2018 → only one individual observed

Evolution since 2000 → trend toward extinction has not been stopped!

Rapport de suivi 2018



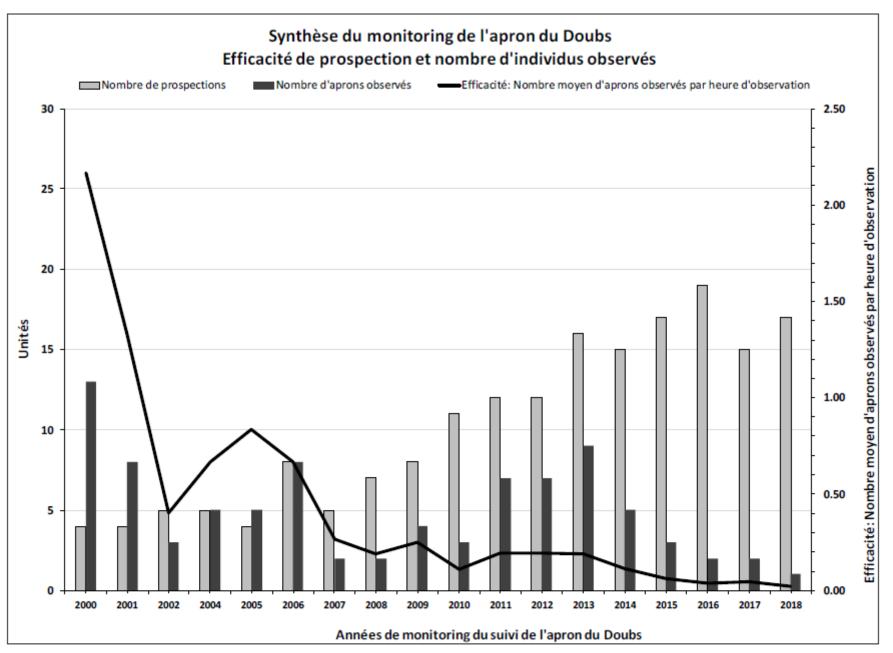


Figure 1 : Effort de prospection/résultats des observations d'apron pour la période de monitoring 2000-2018 pour le Doubs jurassien.



Perspectives

Are new measures needed?

- → 2019: Workshop on the topic «agriculture» to be organised with the advising board
- → 2019: Integration of cantonal services for agriculture in the advising board
- → 2019: Specific «agricultural measures» to be discussed with the advising board

