

Opening door T. Buijse heet de minister van Wallonie welkom.

De minister benadrukt dat de samenwerking versterkt moet worden op het gebied van o.a. vismigratie. Voor een gezond watermilieu is veel inspanning vereist, omdat er op veel gebieden moet worden samengewerkt. De krw is een belangrijk beleidsinstrument daarvoor. Hij noemt projecten als "Vissen voor verbinding" in Noord Nederland en het project Geul als voorbeelden van internationale samenwerking.

Xavier Rollin DNA onderzoek naar de genetische imprinting van zalm. First Group assignation (origin) Returners most from Loire Allier. Parental assignment (Research after parents). Observed that some parents have a high impact on recruitment. In 2018 study for brown trout heritage and introgression. Also a river group and farm group. Each river has his own trout population. Stocking numbers disappear fast. Some impact (times 3) on introgression. Conclusion (on sheet)

Coeck collaborating with Rhine system? Xavier There is contact. Rijn salmon entering Meuse VV. Sometimes fish cannot be addressed to stocking, so there must be strayers. Karin LANUV wants collaborating on paternal assignment. Coregonus > Bakker salmon research in fish passes, genetic samples taken, but not analysed yet. Migration data will be analysed for a 3 years period.

IMC Materplan Migratory Fish in 2011. J. Coeck INBO. Inventory of upstream and downstream migration, spawning and nursery area. 600.000 fry released and smolts. From 2015 decrease of numbers of returners. FOCUS ON DOWNSTREAM migration. Impact on salmon smolts and the effect of watersupply to the Albert canal. 1100> monsin> losses via the Albert canal. 5 less than 12% is reaching the Netherlands. Same figures for eels. From the river Berwinne only 20 % of the released smolts reaches the North Sea. Ourthe might be as low as 1-2%.

Will the next decade bring us the great leap forward for migratory fish in the river Meuse?

Gern.... flochsmule is there no downstream protection at HPP? In Lixhe, but not in operating, target is to built some fish protection system at HPP. Hans Brinkhof: weirs meuse will be optimized for up and downstream.

M. Ovidio Meuse salmon project. Migratory fish species disappeared due to constructing weirs and HPP. Now water quality improves, fish passage possible, also in the tributaries. Inventory of spawning and nursing grounds, spawning centre in Erizee. So now stockig of eggs, juveniles and smolts. In 2000 first returner. Since 2015 significant more returners. Die at Monsin, and some take the alber canal.

Smotification process is very sensitive, dissmoltification due to warmer water? Spawning in the main river?

Tolkamp restricted numbers (capacity)> start stockin at a later stage has more profit (numbers). Xavier also quality of the fish must improve. Visadvies> cooperate with NASCO? Micael: No direct coop.

Misjel.

Ren Salmonids in the Meuse basin. Salmon is the flagship species. 1983 first sea trout back in Berwinne. Started first projects. Ourthe accessible in 2009 for salmon. Great achievements are done in the past.....

Karin Camara (LANUV). Smolt Run. HDX project in the river Wupper. >7000 fish marked with RFID transponders. 12 mm horizontal rack no passage! Too all the bypasses? Staat in presentatie. Smolts 30% reaches the Rhine. High losses due to cormorant predation. Niels: Comparison between wild and farmed smolts? No comparison possible used only farmed smolts from returners.

Etienne Dupont Connection by a special fish passage constructed with baffles of 30 and 60 degrees at a slope of 5%. Rollin: Price > raised from 60 to 400 per element because reinforcement with wire..

Didier Lemmens. Waterkwaliteit in Nederland en België now good. Probably the right time to reestablish population of trout, salmon, grayling. Now only catch and release. Increasing numbers of trout spawning places, but a lot of places have low efficiency because of sandload. Grayling sensitive for high Nitrogen load.

Salmon reintroduction until some extent successful. Improvement to be done: reduction of sediment, nitrogen and phosphorus, make small tributaries accessible, more shade to reduce rise of water temperature. Kessel BUWA temp between Belgium and Neth is 14 degrees in Neth. Higher, Siphon is not a barrier for smolts, RFID like a smolts swim up and down.

Thijs Belgers (VBC Roer). International agreement between xx partners (hatchery). 1996 first redd seen (maybe trout). After finding dead and heavily damaged fish, measures were taken, like a fish ladder and vertical fine mesh screens for protecting downstream migrating fish. Saumon 2000 collaboration with Belgium. Monitoring every day (fish ladder, bypasses). Since 2012 caught adult fish are transported to the Erizee hatchery. Xavier suggestion > genetic samples of smolts, parental assignment with Erizee adults. Tom are there solutions for upstream migrating adult fish Yes in US they have electric fences to protect fish swimming upstream in the tailrace of HPP.

Aniel Balla (RWS) After flood disaster 1953 sea gates were closed by executing the Delta plan. The Haringvliet seaway was also closed. This was the entrance from the Rhine and Meuse to the Nordsea. Now closed, only opened when enough fresh water must be lozen to the Nordsea. No saltwater intrusion was possible because of agriculture and drinking water purpose. Fresh water fish could not turn back to the Haringvliet. Now there is the Kierbesluit (Kier ajar), sluice gates are opened and let in a limited amount of salt water to improve fish migration. Started november 2018 the phase of Learning by doing (step by step). TO video: hijs Belgers professional Fisherman only seaside LNV is doing a study on the impact on fish population. .Ovidio velocity ? is measured but not very precise. Migration at night taen in account, not actually ? Yes. Water level rise and 1 m/s. is good.

Kessel is there a plan B for exceptional years? No not actually. But time of closing is some later, which can be very effective

Thijs Belgers fish sluices still operating? Yes, but main focus is on The dam

Damien Sonny. Tim Pelsma Silver eels caught in the nets. Are they released immediately after examining? No, fish are released after 72 hours observation.

General discussion

Thijs wants to bring smolts to the sea in big tanks ships. During the way they imprint odors of the river. In us it is done.

D. Sonny. Lack of overview and synergy between research programs. Buijse and Coeck spoke already to exchange knowledge once a year from now on.

Gert-Jan van Dijk: Use same systems for e.g. marking fish where possible.

Xavier> cooperate in the protocol so you know better what you expect.

Buijse is surprised by the ease with which communication was achieved by the French, German and Belgian speakers

Coeck takes the word and thanks Mecheline for the organization of 59 meetings! He thanks her for all the work she has done!