



**Ministry of Food, Agriculture
and Fisheries of Denmark**

Danish Veterinary and
Food Administration

Infectious haematopoietic necrosis (IHN) in Denmark

PAFF
08 October 2021
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The 11 outbreaks of IHN

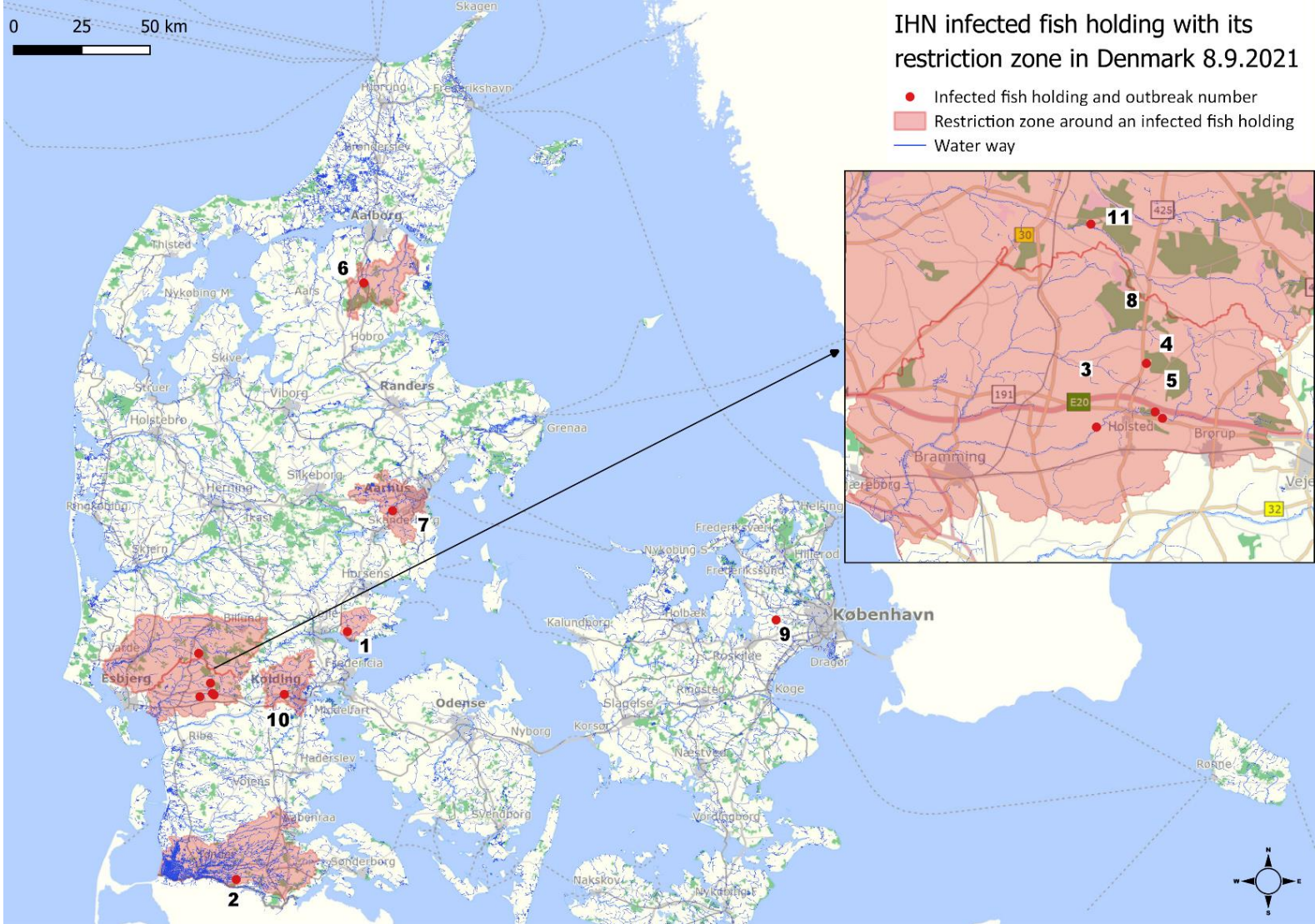
Outbreak no.	Date of confirmation	Epidemiological comments
1	18/05/2021	Rodhen Å. Received fish from outbreak no 2.
2	25/05/2021	Vidå. Received fish from outbreak no 3.
3	29/05/2021	Sneum Å. River contact of outbreak 4 & 5 and trade to outbreak 5.
4	02/06/2021	Sneum Å. River contact of 3 & 5.
5	03/06/2021	Sneum Å. River contact of 4 & 5 and trade from outbreak 3.
6	03/06/2021	Lindborg Å. Received fish from outbreak no 3.
7	03/06/2021	Århus Å. Put & Take Lake, which received fish from outbreak 6.
8	19/07/2021	Sneum Å. Put & Take Lake, Fish received from outbreak no 5.
9	23/07/2021	Roskilde. Put & Take Lake, Fish received from outbreak no. 5 and 6.
10	12/08/2021	Kolding Å. The epidemiological investigation is still ongoing.
11	07/09/2021	Varde Å. The epidemiological investigation is still ongoing.

Current situation

Fish Farms	As of 22 September 2021	As of 12 July 2021
Outbreaks	8	6
Suspicious	71 (24)	47*

Put & Take Lakes	As of 22 September 2021	As of 12 July 2021
Outbreaks	3	1
Suspicious	78	81
Were contact to a suspected fish farm, which was not infected	11	11
Has been tested <u>negative</u> with a sample size of 30 fish	40	18
Has been sampled with less than 30 fish, tested <u>negative</u>	18	2
Attempted sampled, but no fish could be caught	5	7
Not yet sampled	4	11

Map over the 11 outbreaks of IHN



Outbreak no. 8 Sølvdal (CHR 83387)

Type: Put & Take Lake

Suspicion date: 09/06/2021

Confirmed date: 19/07/2021

* Source of infection: assumed to be outbreak no. 5

* Latest negative surveillance sample:

Received fish from:

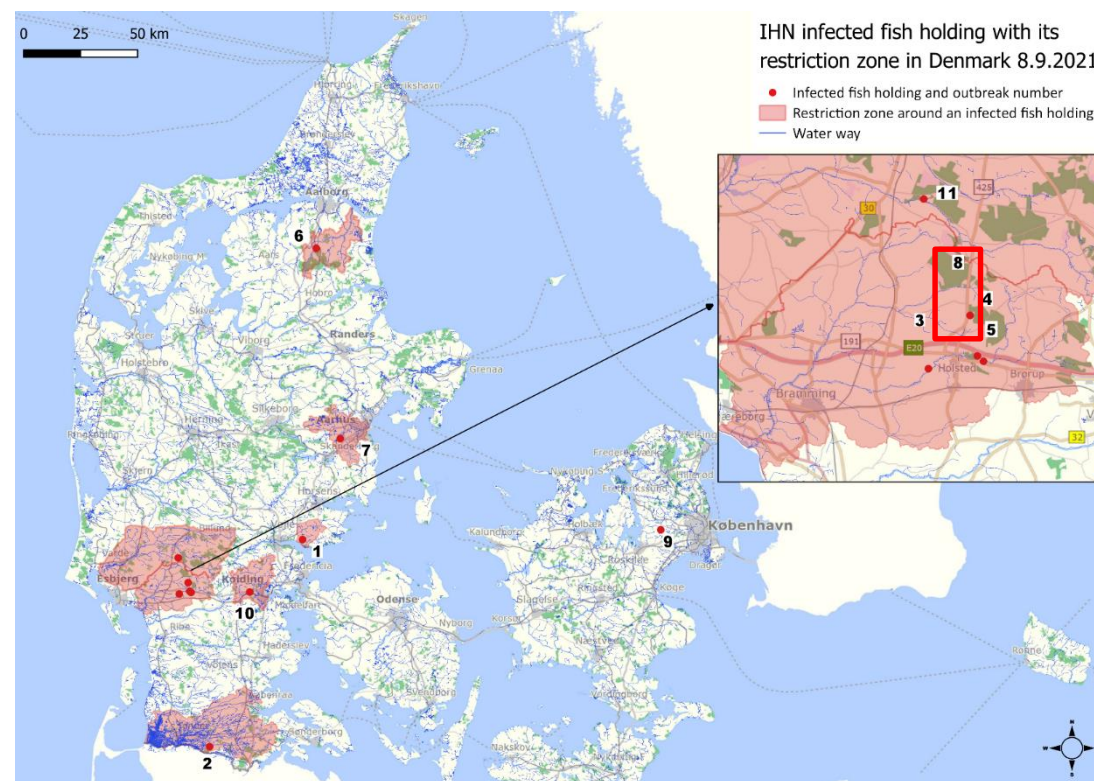
- CHR 103594, Outbreak no. 5

Send fish to:

- None

In same water catchment area:

- CHR103932, Outbreak no. 3
- CHR 54147, Outbreak no. 4
- CHR 103594, Outbreak no. 5
- CHR 43184, Neg. PCR



Outbreak no. 9 Hove Put & Take (CHR 105136)

Type: Put & Take Lake

Suspicion date: 10/06/2021

Confirmed date: 23/07/2021

* Source of infection: assumes to be either outbreak no. 5 or no. 6

Received fish from:

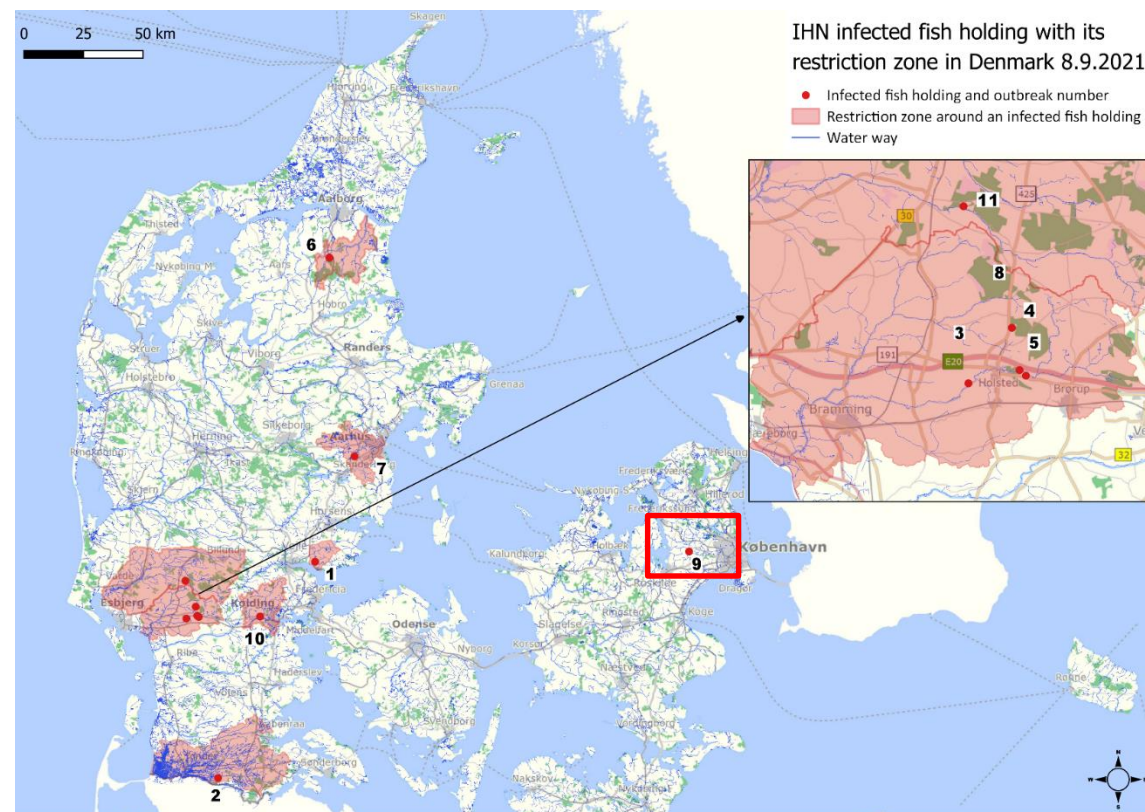
- CHR 103594, outbreak no. 5
- CHR 107236, outbreak no. 6

Send fish to:

- None

In same water catchment area:

- No establishments



Outbreak no. 10 Hvilested Dambrug (CHR 104128)

Type: Fish Farm

Suspicion date: 10/08/2021

Confirmed date: 12/08/2021

* Source of infection: The epidemiological investigation is still on going

Received fish from:

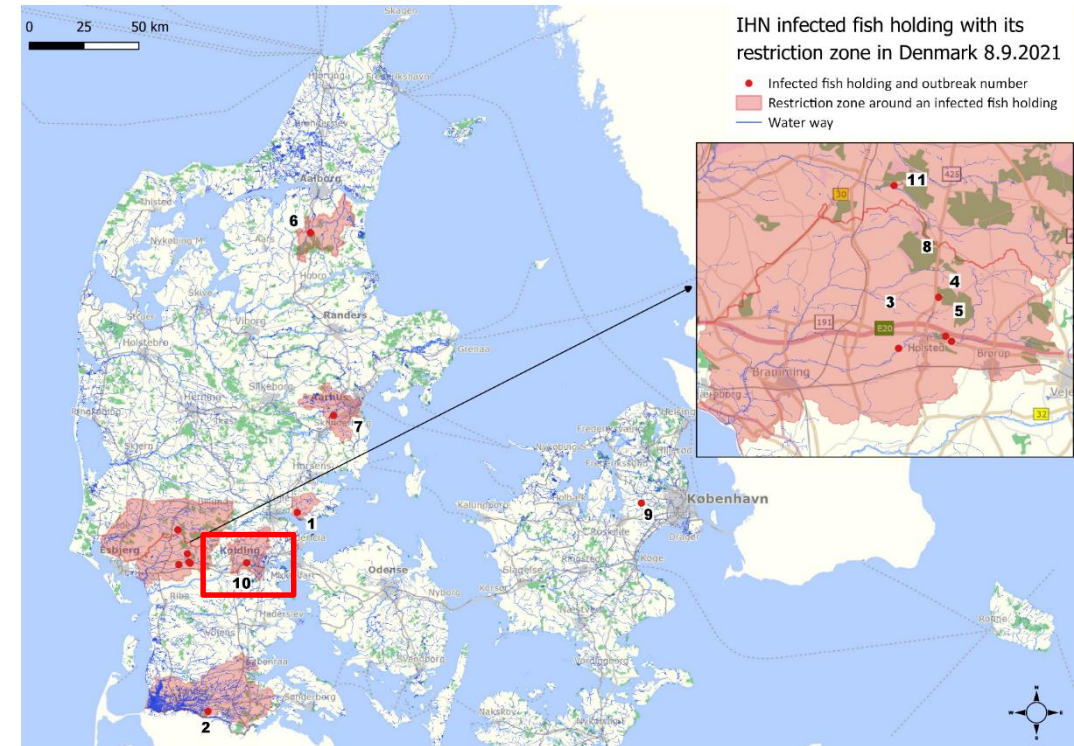
- None

Send fish to:

- In Denmark: 10 different aquaculture companies (e.g Put & Take and educational purposes)
- The following member states: Germany

In same water catchment area:

- CHR 118000, Same epi. unit as outbreak no. 10
- CHR 126856, Same epi. unit as outbreak no. 10
- CHR 123181, 2*Neg. PCR
- CHR 123283, Water Exchange point



Outbreak no. 11 Hesselho Dambrug (CHR 87989)

Type: Fish Farm

Suspicion date: 06/09/2021

Confirmed date: 07/09/2021

* Source of infection: The epidemiological investigation is still on going

* Was under clinical suspicion in June 2021. Results from 10 fish were negative

Received fish from (after June 2021):

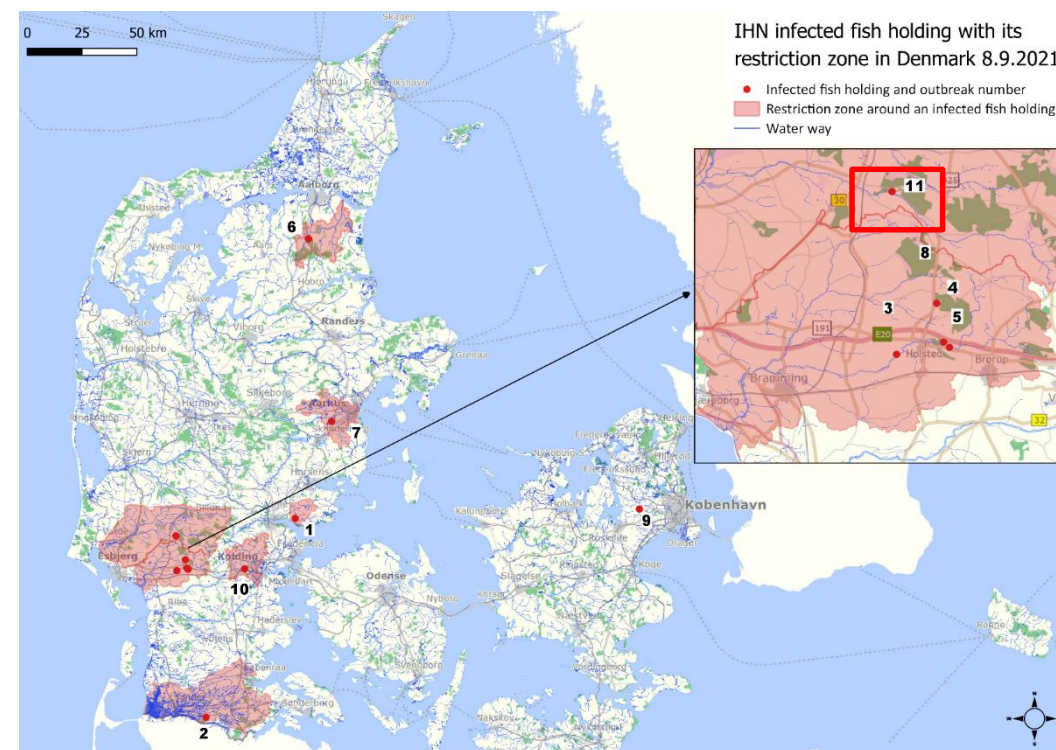
- **CHR 106297 Neg. PCR**

Send fish to:

- The following member states:
The Netherlands, Germany and Switzerland

In same water catchment area:

- 13 * fish farms (not including the outbreak)
11 with neg. PCR, 2 sampled.
- 9 * Put & Take lakes
- 6 * Other (e.g Water Exchange point)



Suspension of IHN free status of Denmark

On 13 September 2021, the Danish Veterinary and Food Administration suspended the IHN free status of Denmark in accordance with article 82(3) of Regulation (EU) 2020/689.

This is the second time Denmark has suspended its IHN free status

First suspension was from 2 June 2021 until 16 July 2021.

The suspension was put in place due to the latest outbreaks.

The suspension is in place until 1 November 2021.



The path forward

Fish Farms:

- After the animals have been removed and killed, the DVFA ensures cleaning and disinfection of the infected establishments in accordance with article 63 of Commission Delegated Regulation (EU) 2020/689. After this process has been completed, the infected establishments will be fallowed for at least six weeks in accordance with article 64 of Commission Delegated Regulation (EU) 2020/689.
- After fallowing, the restricted zone will be converted into a surveillance zone.

The Put & Take lakes:

- All suspected P&T are kept under official restrictions in accordance with article 55 until 30 fish have been sampled and tested negative
 - Lakes that can be emptied: Same procedure as described above for fish farms.
 - Lakes that can not be emptied: Considered approach, sentinel testing.

