

Global ISA update

Status, Measures and vaccination

Trination, Belfast – 17.04.26

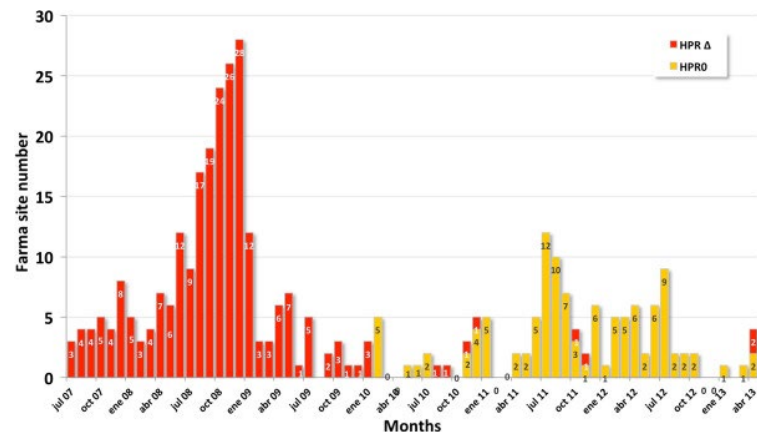
Agenda



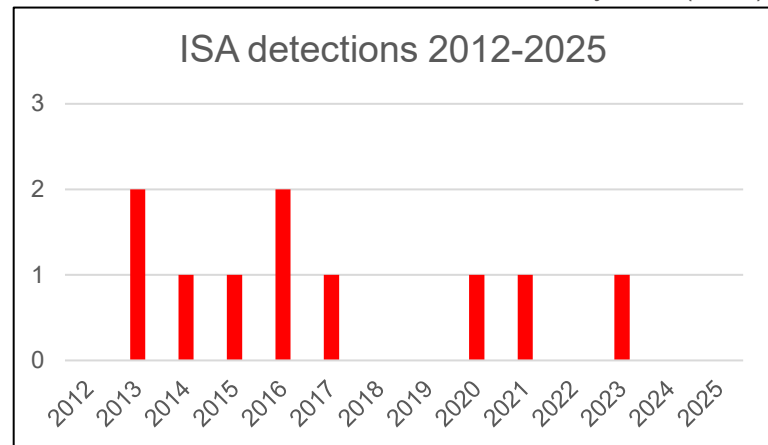
- 01** Regional status
 - Chile, Faroe Islands, Canada and Norway
- 02** Experiences with ISA vaccination
- 03** Comparison

Chile

- ISA crisis in 2008
- Response
 - Creation of production zones
 - Maximum biomass and stocking density
 - Mandatory vaccination
 - Mandatory ISA surveillance
 - ISA positive pens are culled
- 0-2 ISA outbreaks per year
- HPR0 is still prevalent



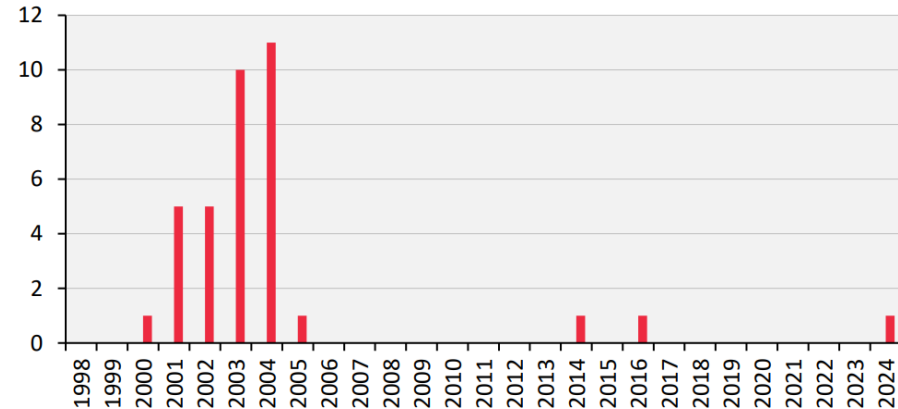
Source: Godoy et al. (2013)



Source: Sernapesca

Faroe Islands

- ISA epidemic in the early 2000s severely impacted Faroese salmon farming
- Response
 - 1 company per fjord system → Synchronized fallowing
 - Field trial with vaccine from 2005 □ Mandatory vaccination since
 - Mandatory ISA screening across sites
 - Sites are culled upon confirmed ISA detection
- HPR0 present both in hatcheries and at sea
- Only 3 ISA outbreaks since 2005

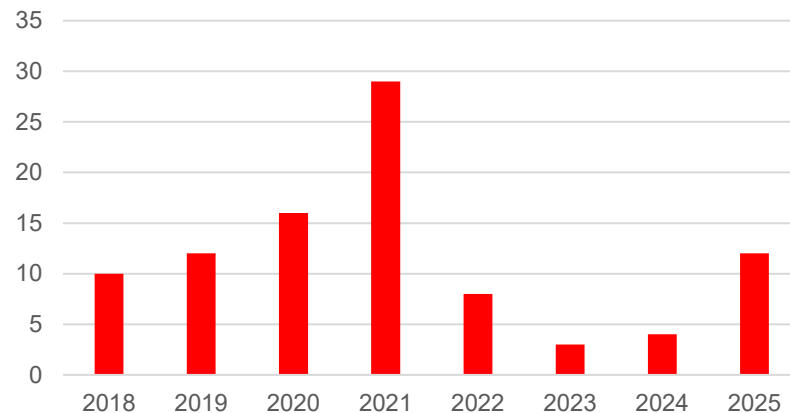


Source: Fiskaheilubarometrið 2024, Debes H. Christiansen

Canada

- ISA has only been detected in Atlantic Canada
- ISA is a federally reportable disease
 - Managed through a shared federal-provincial system
- Provincial screening programs
- Vaccination is not mandatory
- Both NA and EU genotypes of ISAV are present
- More detections in late-stage production
- Culling of ISAV positive pens

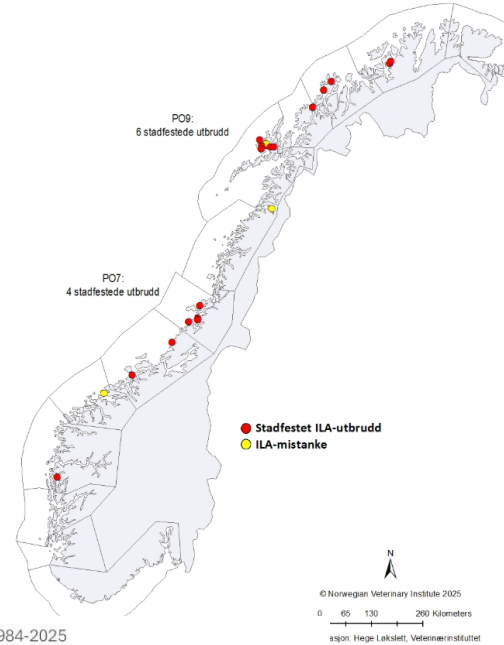
ISA detections 2018-2025



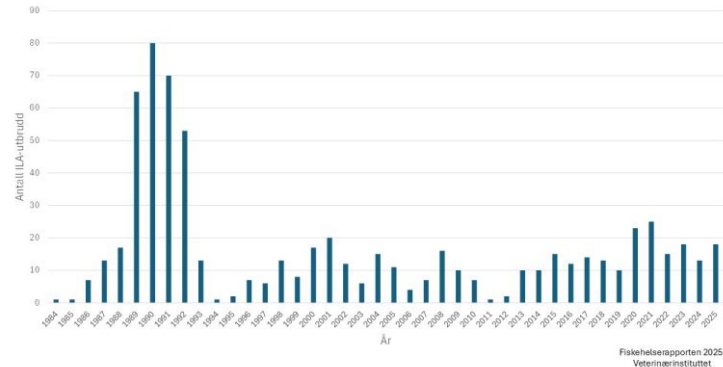
Source: CFIA

Norway

- 10-25 detections of ISA annually
- No general mandatory screening
- Vaccination is not mandatory
- If ISA is detected
 - Historically → Culling of the entire site
 - New contingency plan → Positive pens culled, opens for continued production in negative pens
- Increase in primary outbreaks during the last 10 years
 - Several heavily affected farmers → High prevalence of HPR0 in hatcheries over several generations

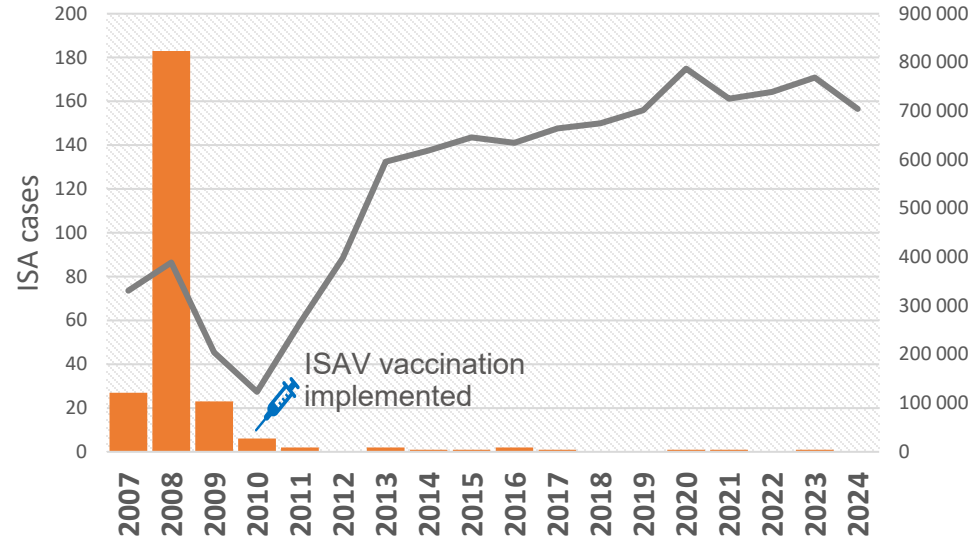


Antall ILA-utbrudd 1984-2025



ISA Vaccination

- Mandatory vaccination in Chile and the Faroe Islands
 - Together with other measures → Control of ISA situation
- Increased vaccination in Norway from 2020-2025
 - 40% of fish vaccinated in 2024 & 2025
 - 3.32 higher risk of ISA detection in non-vaccinated salmon vs ISA-vaccinated



Year	Number of smolt released (mill.)	ISA detections non-vacc./vacc.	No. Non-vaccinated (mill.)	No. vaccine doses (mill.)	Detections per 100 mill. non-vacc.	Detections per 100 mill. vaccinated	Relative risk
2020	365.95	23/0	338.49	27.46	6.79	-	-
2021	388.70	23/2	311.90	76.80	7.37	2.60	2.83
2022	415.98	14/1	315.39	100.59	4.44	0.99	4.46
2023	427.97	17/1	319.27	108.70	5.32	0.92	5.79
2024	433.75	12/1	235.62	198.14	5.09	0.50	10.09
2025	433.75*	11/7	242.48	191.27	4.54	3.66	1.24
Total	2 466.10	100/12	1 763.15	702.95	5.67	1.71	3.32

Comparison

Country	Mandatory screening	Mandatory vaccination	Negative pens can continue in production	HPR0 prevalent	Outbreaks per 100 000 tons produced (2012-2024)
Norway			X*	X	1.02
Chile	X	X	X	X	0.12
Faroe Islands	X	X		X	0.31
Canada	X*		X	X	?



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