

Overview of the disease situation in Norway

PD, CMS and HSMI

Trination 2022 - 22. November 2022, Edinburgh

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The Norwegian Fish Health Report



Rapport 2a/2022

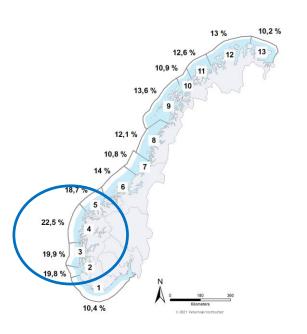


Munnen til en lakselus forstørret 300 ganger. Bildet er tatt med skanning elektronmikroskop og fargelagt.

Published annually since 2003
Access to data at site level from private laboratories since 2020
Questback from fish health personell and inspectors in the Food Safety Authority
Official registers on active sites, biomass, harvest and mortality



Mortality in sea farms with Atlantic salmon



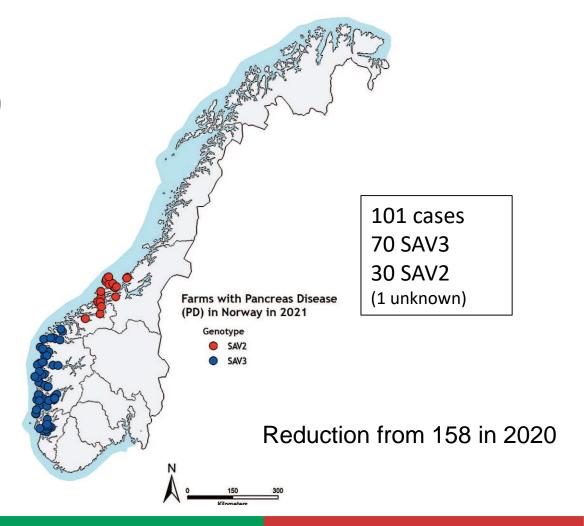
Median percent mortality of production cycles of commercial farmed salmon, end of 2021:

17.4% (10.3 - 26.7%)

The differences between production areas may in part be attributed to diseases and frequency of delousing

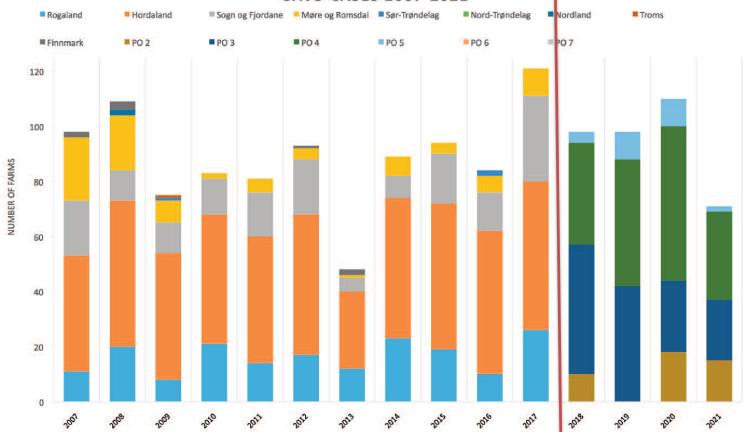


Pancreas disease (PD) Status 2021



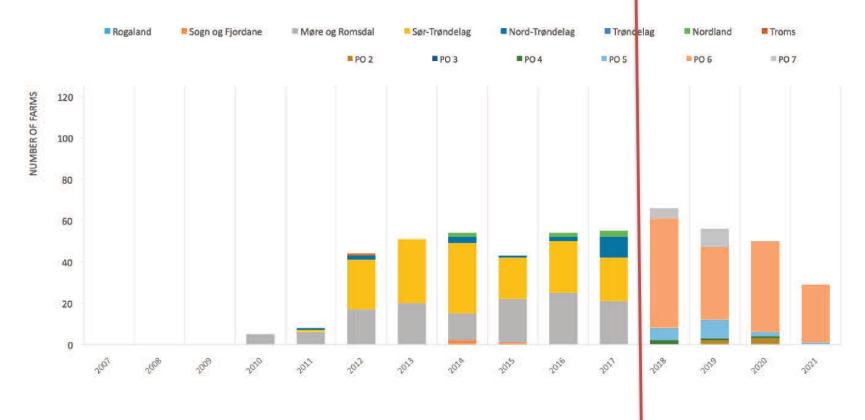
COUNTIES PRODUCTION AREAS (POs)

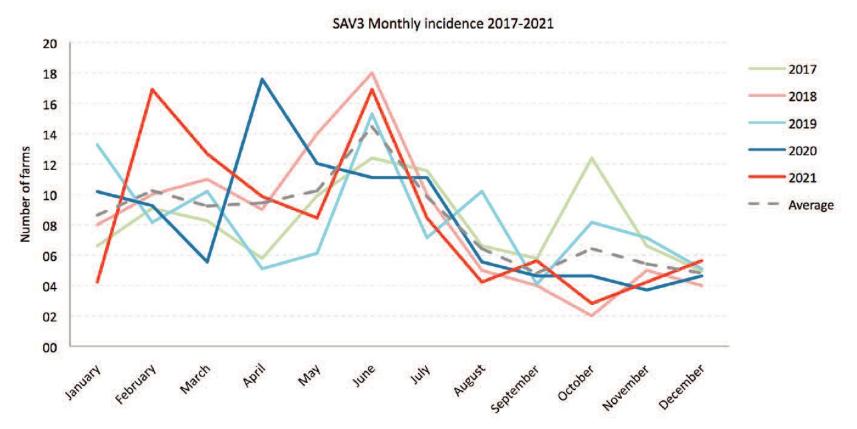
SAV3-CASES 2007-2021



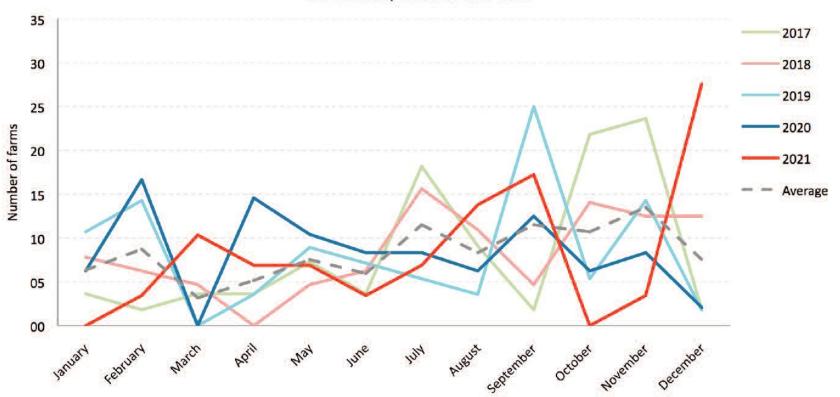


SAV2-CASES 2007-2021

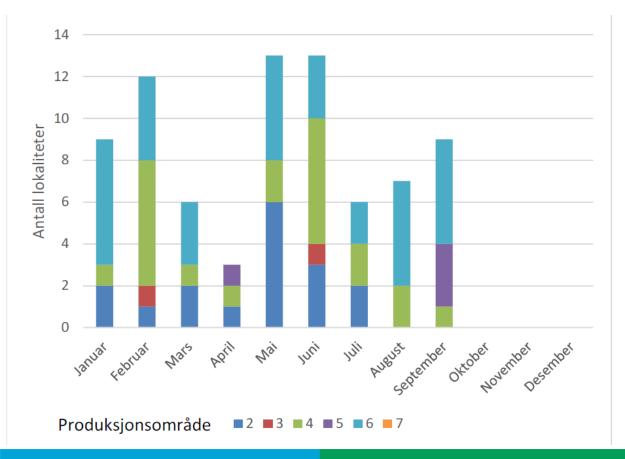




SAV2 Monthly incidence 2017-2021





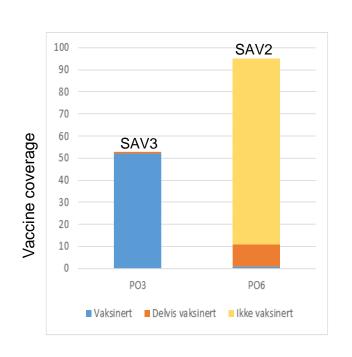


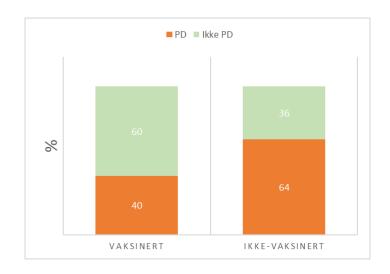
By September 2022:

- A total of 78 suspected cases, 36 SAV2 and 40 SAV3, (2 unknown)
- Same time point in 2021 83 cases



**Effect of vaccination against PD - study performed by B. Bang Jensen in early 2022

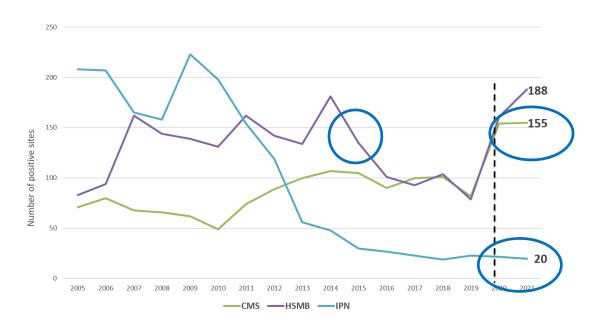




- The results indicate that vaccination has an effect.
- Other differences between the POs may contribute
- More data needed to conclude!

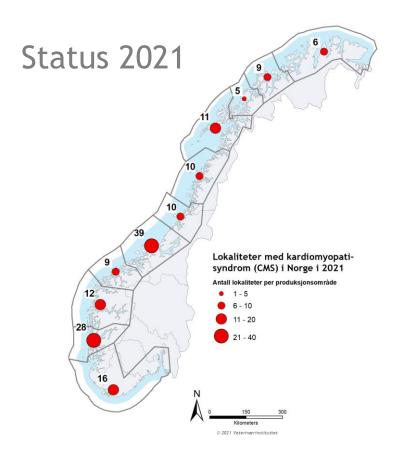


The prevalence of CMS and HSMI





Cardiomyopathy syndrome (CMS)

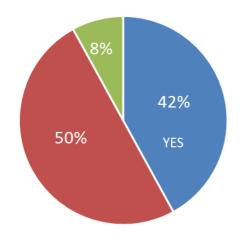


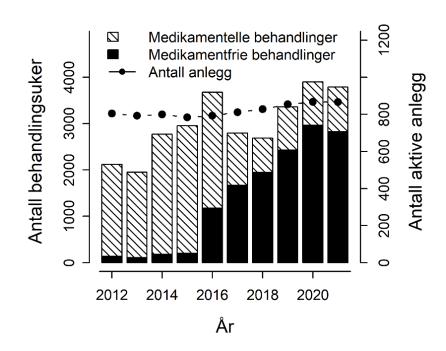
- 155 positive salmon farms (154 in 2020)
- Ranged as the most important cause of mortality in 2021 in Questback (as in 2020 and 2019)



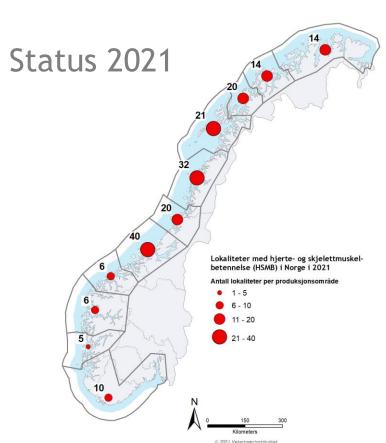
Stress-related CMS outbreaks?

CMS outbreaks 14 days after non - medicinal delousing (n= 74 resp.)









Heart and skeletal muscle inflammation (HSMI)

- 188 positive salmon farms 2021 (161 in 2020)
- Common in Mid- and North- Norway
- Primarily a problem in the sea phase
- Increasing problem with persistent PRV infections in some hatcheries

Thanks to:

Ingunn Sommerset, Editor of the 'Norwegian Fish Health Report' and all coworkers at NVI contributing to the report

Thank you for your attention!

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