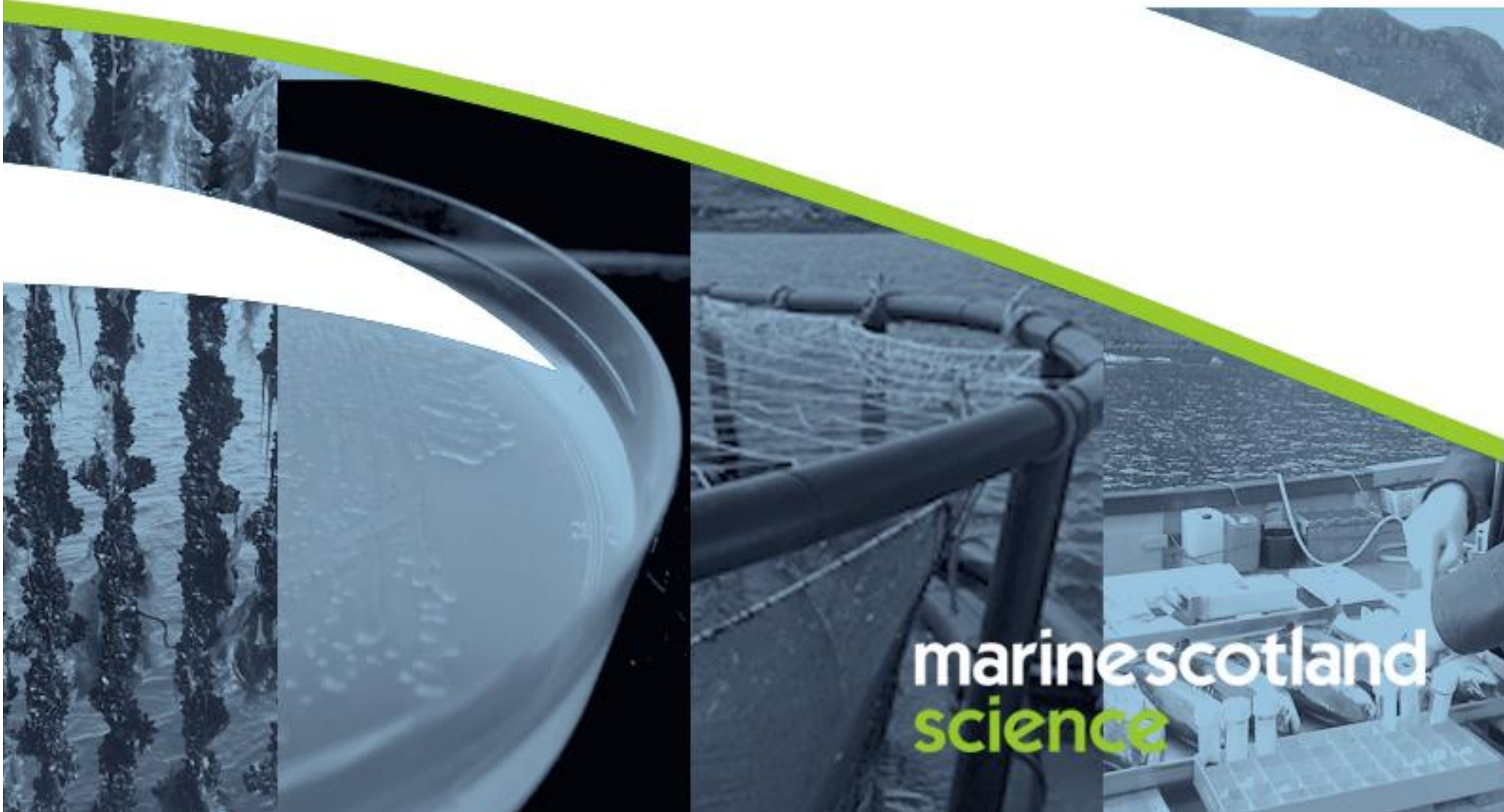


CMS, HSMI & PD – Scottish data 2019 & 2020



Scottish Government
Riaghaltas na h-Alba
gov.scot

Eann Munro, Valentina Romano & Stephen Ives



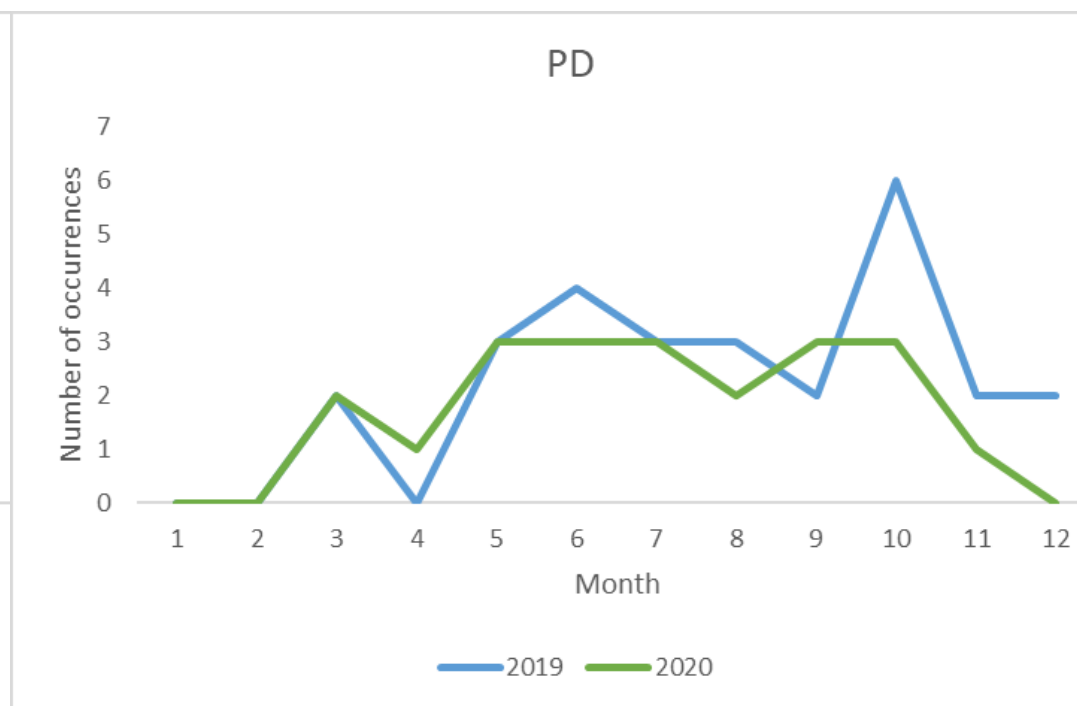
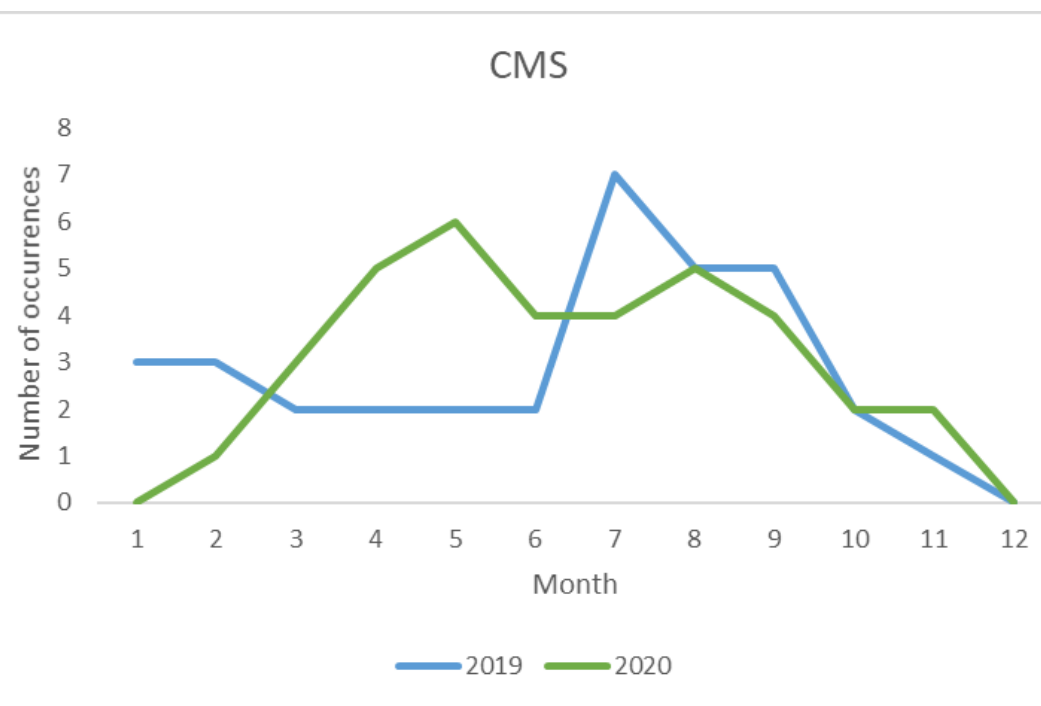
marine scotland
science

SSPO monthly mortality data

- Data on % of mortality are published as monthly farm averages by the Scottish Salmon Producers Organisation (SSPO) (<https://www.scottishsalmon.co.uk/reports>).
- Metadata related to individual mortality events can be limited and often includes multiple causes, so assigning an accurate % mortality to a specific cause is difficult.

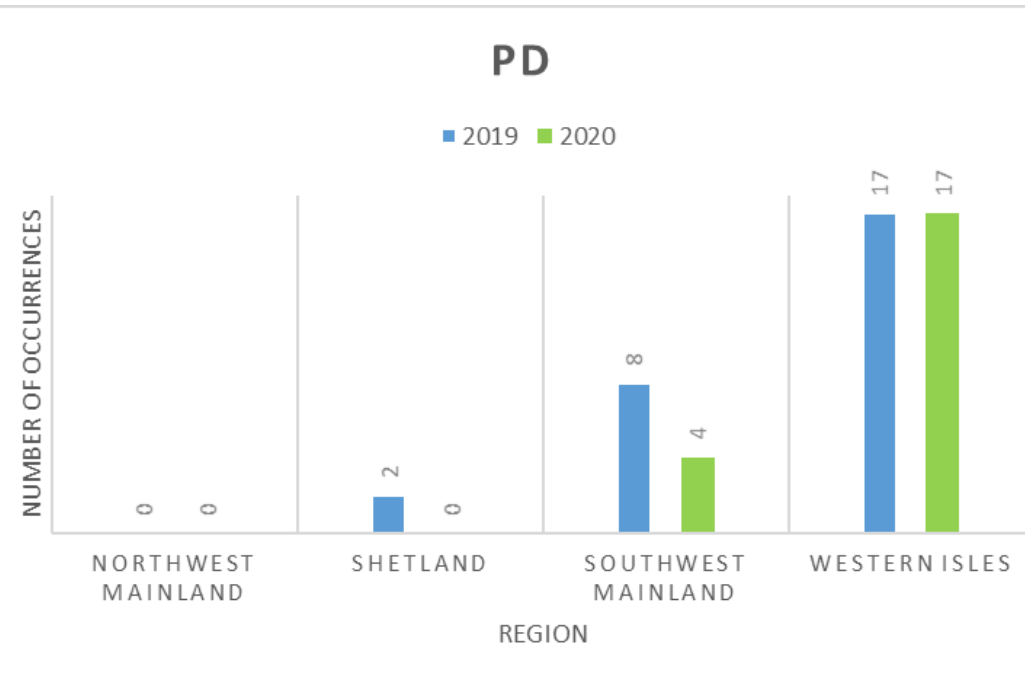
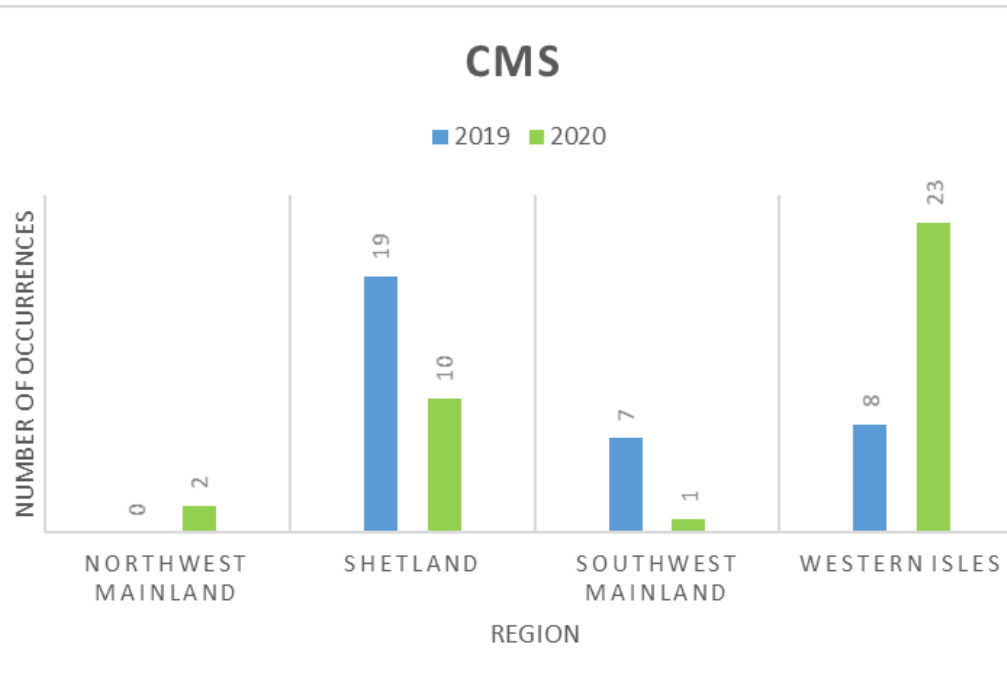
SSPO monthly mortality data

	2019			2020		
	Only	Multiple	Total	Only	Multiple	Total
CMS	24	10	34	12	26	38
HSMI	0	0	0	1	1	2
PD	8	19	27	6	15	21



	Mean consecutive months that a disease is reported at the same site	Number of sites
CMS	2.533333	15
PD	3.166667	6
CMS/PD	2.333333	3

SSPO monthly mortality data



CoGP Practice for Scottish Finfish Aquaculture mortality data

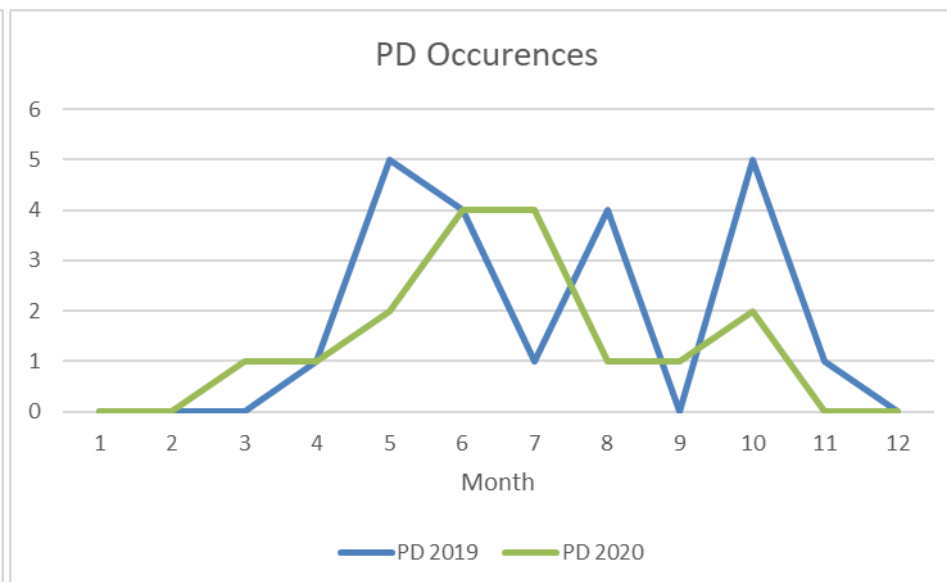
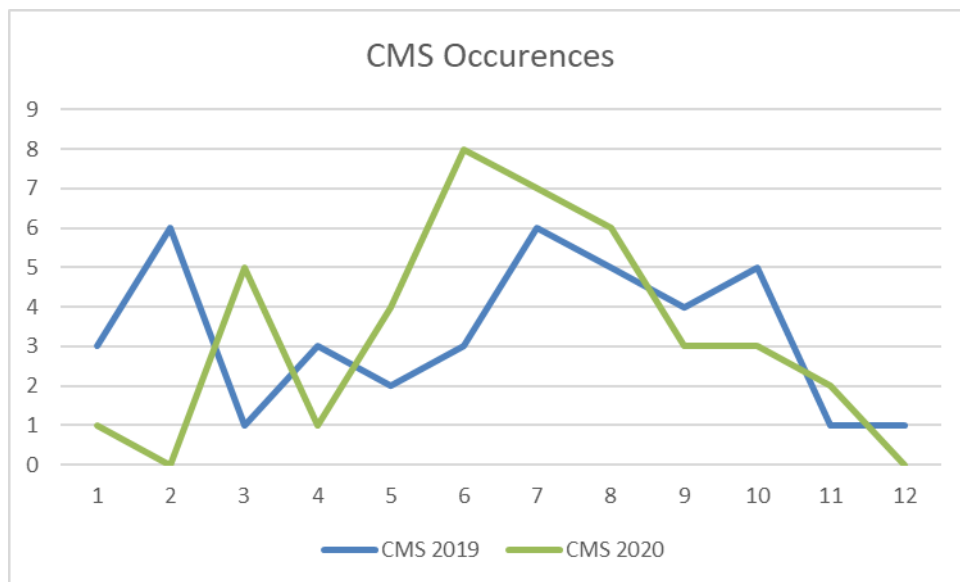
- As part of the Code of Good Practice (CoGP) for Scottish finfish aquaculture, it was agreed that extraordinary mortality events should be reported to the Marine Scotland, Fish Health Inspectorate.

Site Average Weight	Weekly Mortality Maxima	5 Weekly Rolling Mortality Maxima	Species\Water type
<750g	1.5%	6%	A. salmon\SW
>750g	1.0%	4%	A. salmon\SW

- Metadata related to individual mortality events can be limited and often includes multiple causes, so assigning an accurate % mortality to a specific cause is difficult.

CoGP for Scottish Finfish Aquaculture mortality data

	2019			2020		
	Only	Multiple	Total	Only	Multiple	Total
CMS	18	22	40	12	28	40
HSMI	0	0	0	0	2	2
PD	6	15	21	1	15	16

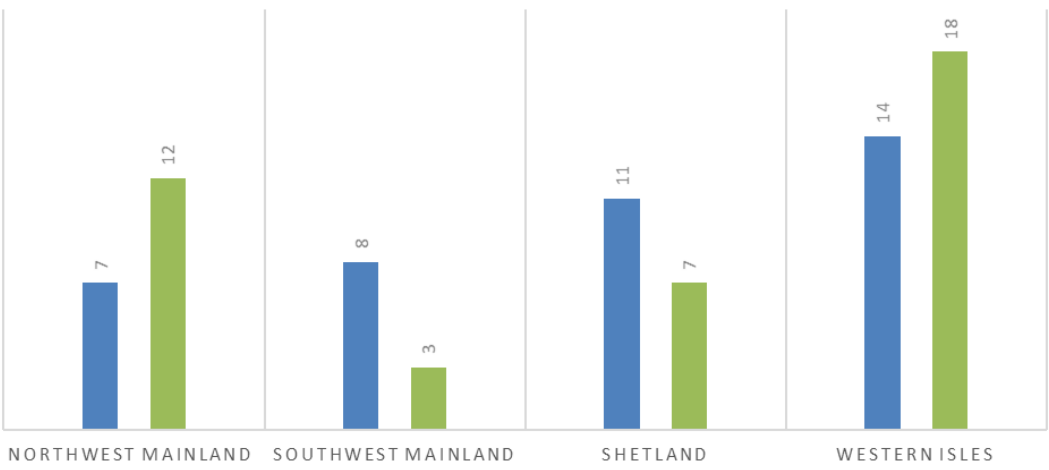


- Each occurrence is as a farm for a given month.

CoGP for Scottish Finfish Aquaculture mortality data

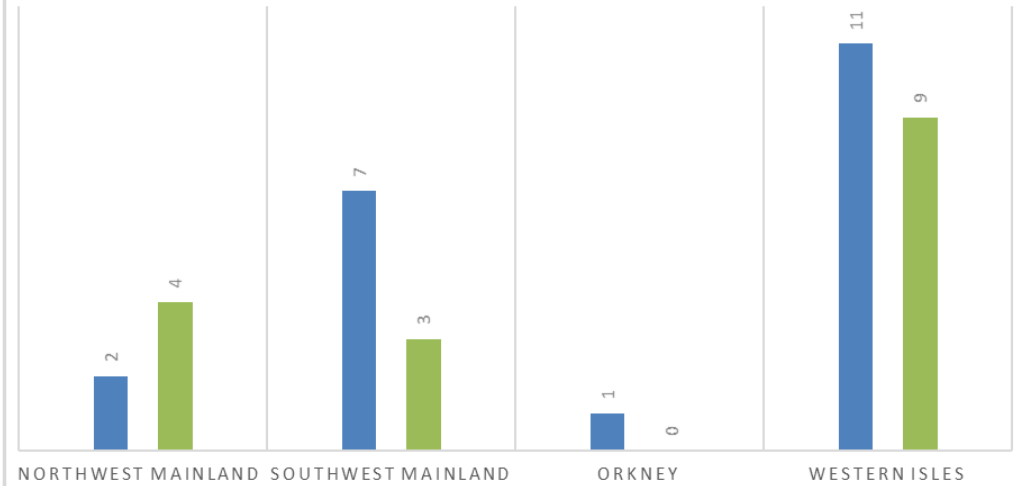
CMS OCCURRENCES

■ CMS 2019 ■ CMS 2020



PD OCCURRENCES

■ PD 2019 ■ PD 2020



Summary

- Both data sets produced similar findings.
- Similar number of CMS cases (34-40) reported in both 2019 & 2020 with it also being reported in smaller fish (1.8kg) as well as harvest sized fish.
- Only 2 cases of HSMI reported via either data set used in this analysis.
- Slight decrease in the number of PD related cases in 2020
- Some geographical variation in the number of reported cases.