

WGC(22)14

'Data Working Group' Overview

Ruth Allin, Cathal Gallagher, Magnus Hansen, Seamus Howard, Dale Marsden, Mick Millane, Tim Sheehan, Alan Walker

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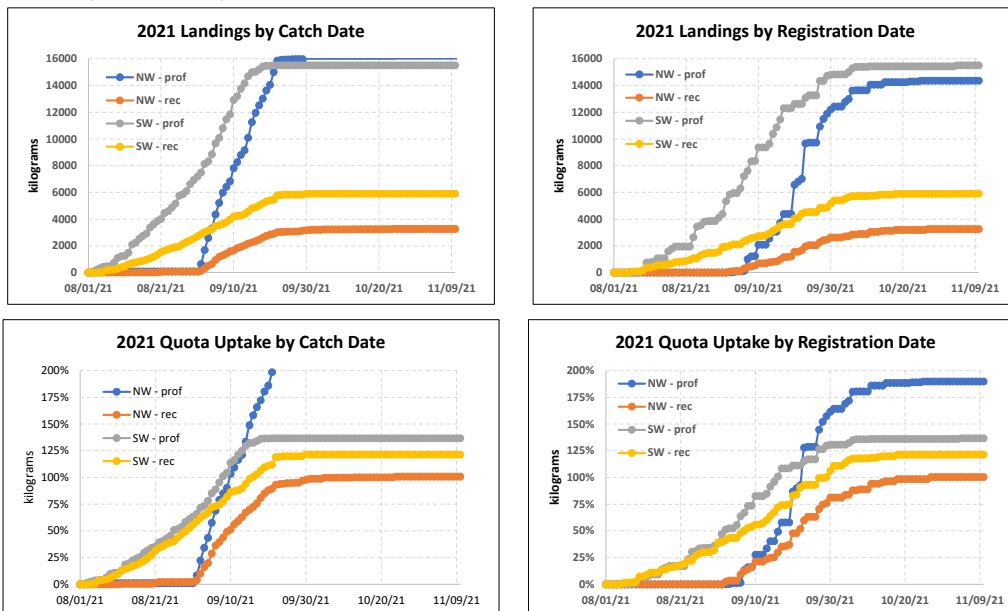
Charge

Retrospective analysis of 2018-2021 fishery data to determine what TAC uptake percentages could have been used as 'triggers' to close the fishery to prevent overharvest

Process

- Data available for 2019-2021 fisheries
 - Catch date
 - Registration date
 - Harvest (kg) by region and license type
- 2019-2020
 - 1 region and 1 quota
- 2021
 - 4(2) regions, 2 license types, 6(4) quotas
 - Entire fishery(West Greenland focus only)
- Retrospectively compared harvest timelines to determine optimal percentage quota uptake necessary to fulfill, but not exceed quota

Data (2021)

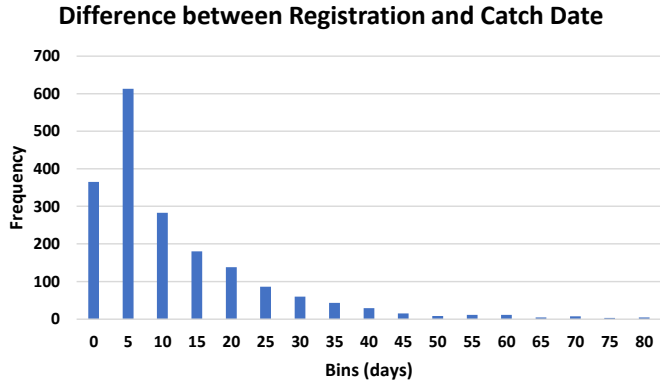


Reporting Biases?

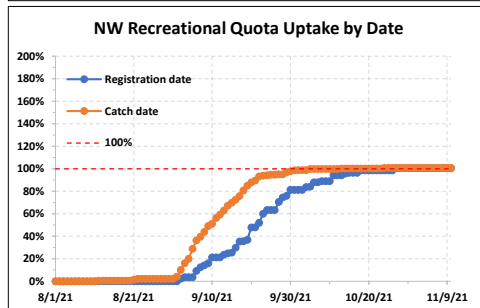
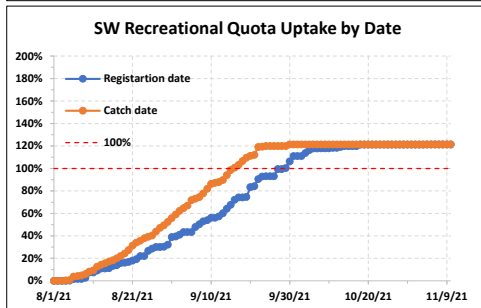
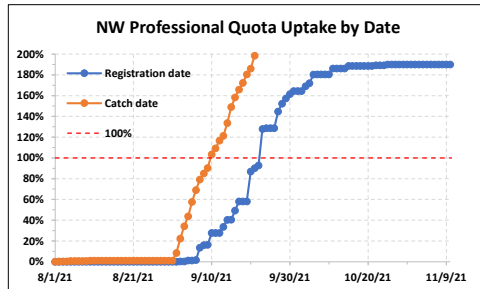
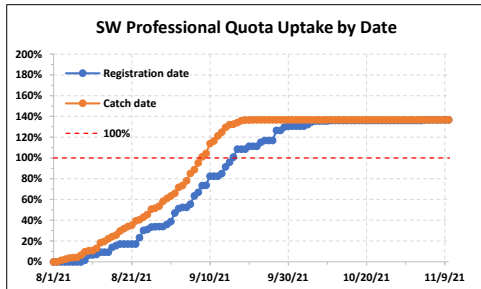
- Catch and Registration date differ
 - Minimum = 0
 - Maximum = 80
 - Mean = 10

- Majority (68%) within 10 days

- No apparent biases
 - Date
 - Harvest amount

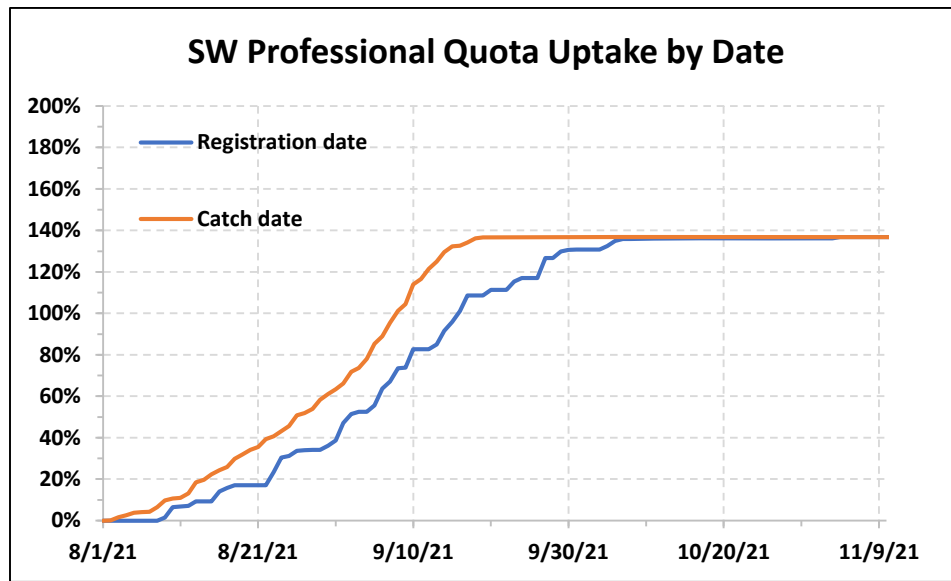


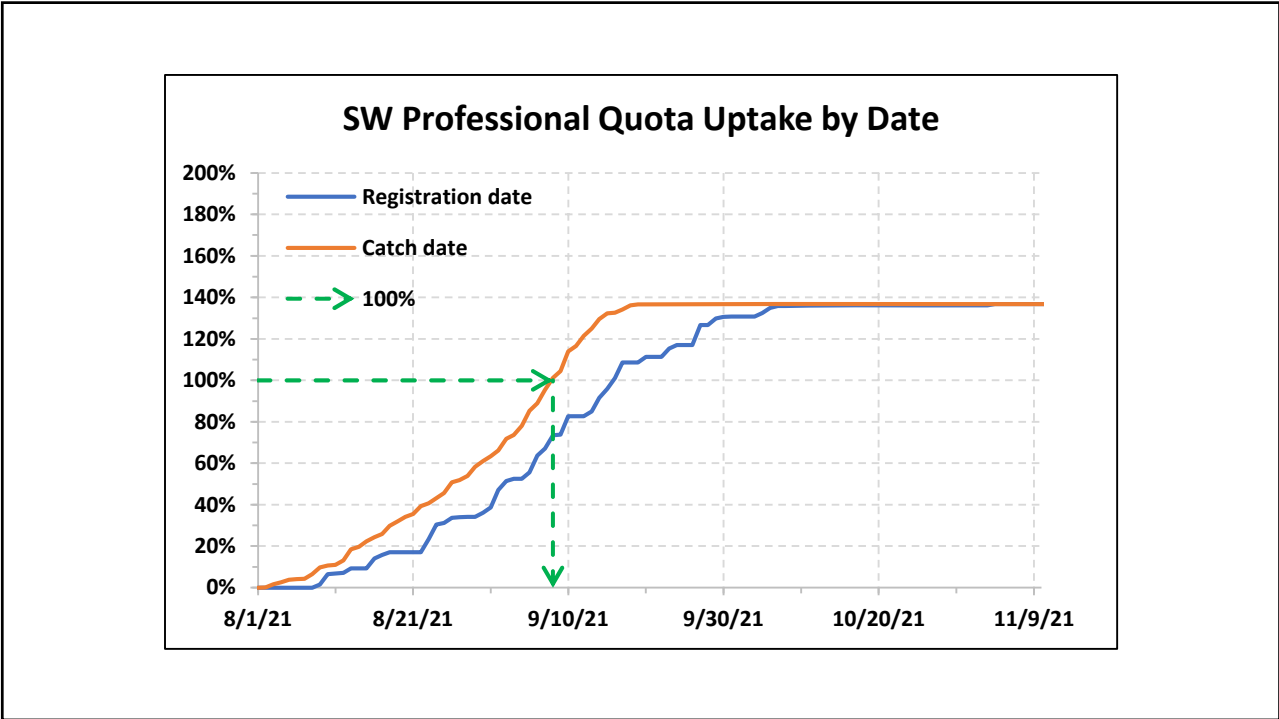
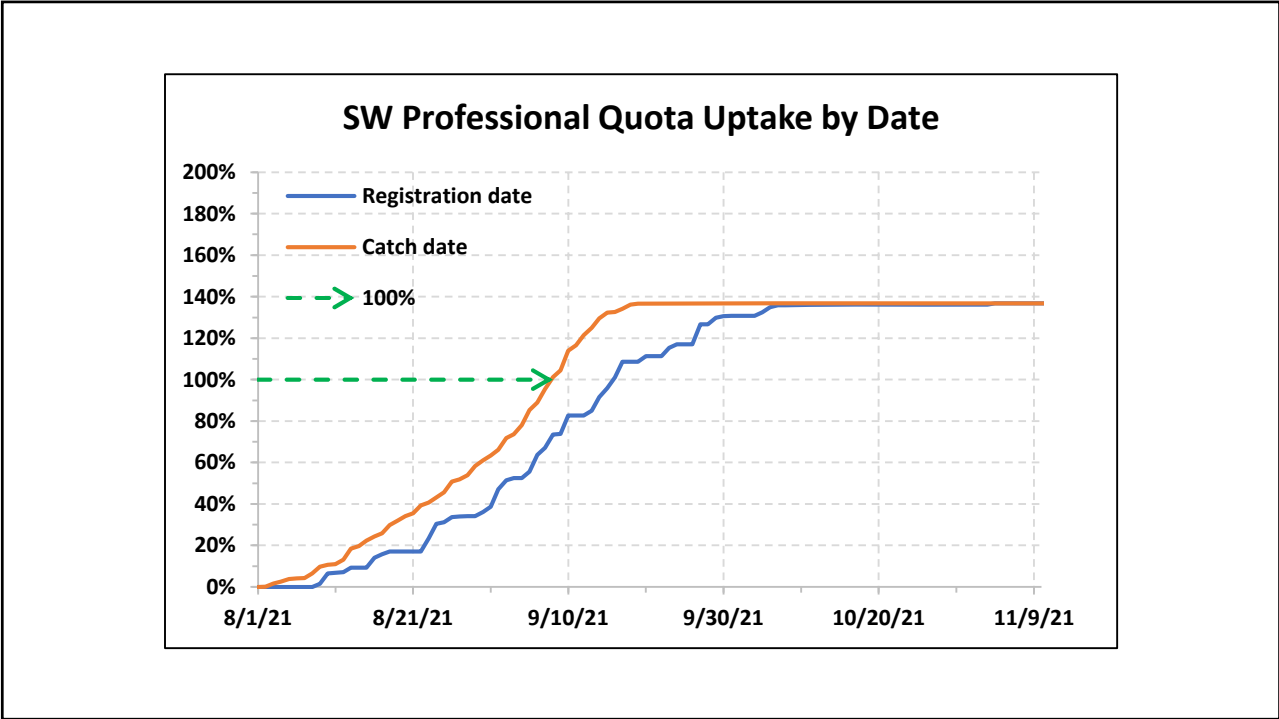
Registration versus Catch Date

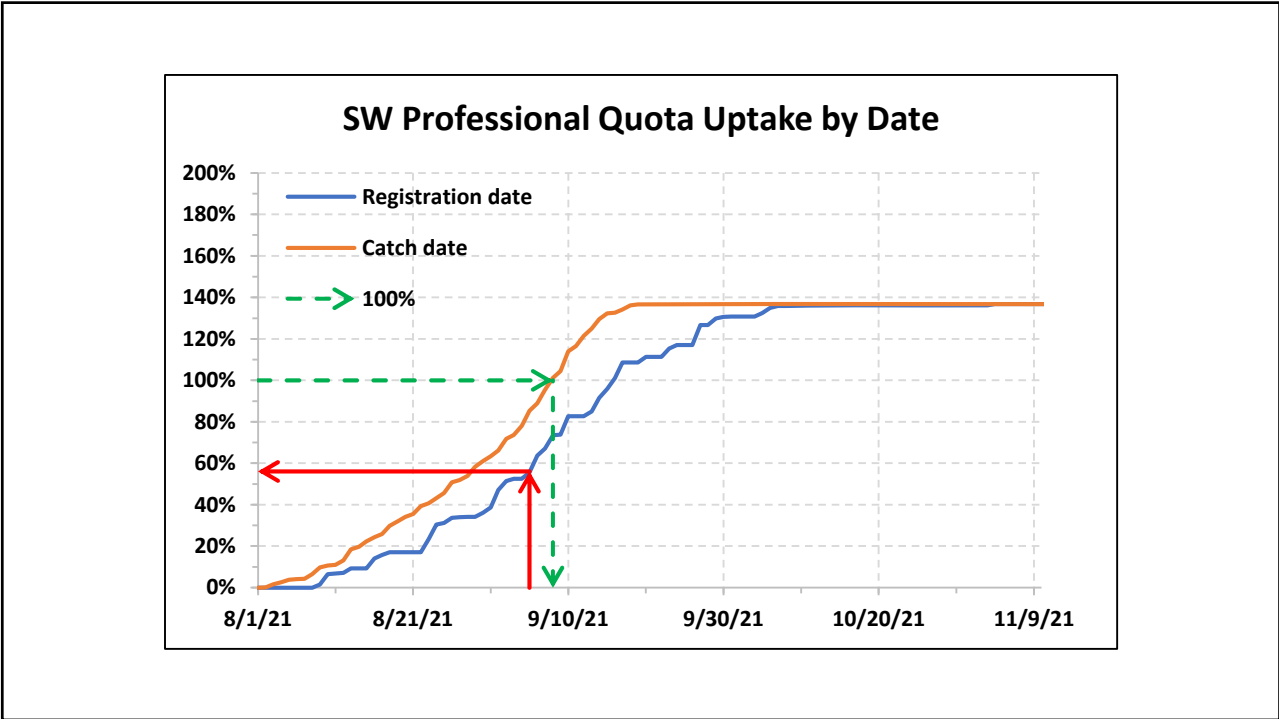
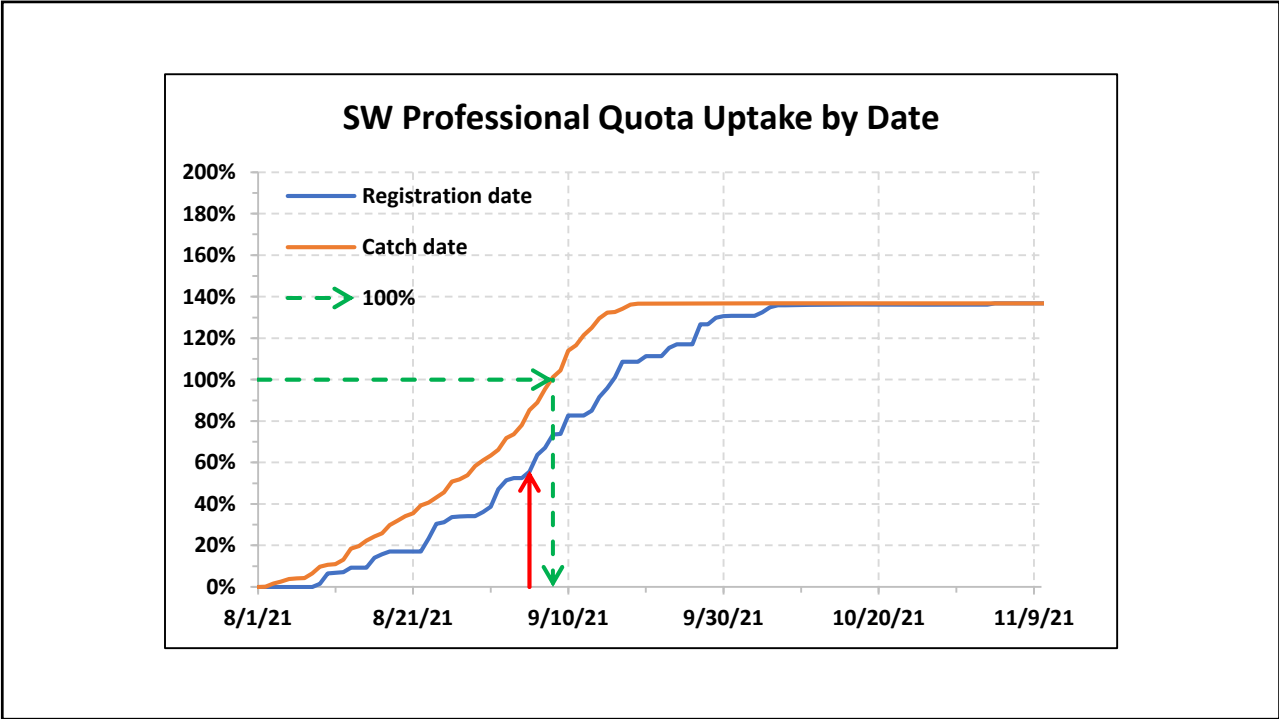


Example of process

for one year/area/license type







Repeat

for each area/license type (2021) or overall (2019 and 2020)

Results

	2019	2020	2021			
	Total	Total	NW - prof	NW - rec	SW - prof	SW - rec
opening date	8/15/19	9/1/20	09/01/21	09/01/21	08/01/21	08/01/21
closing date	9/25/19	9/20/20	09/22/21	10/01/21	09/15/21	09/22/21
season (days)	41	19	21	30	45	52
quota (kg)	19.5	20.7	7.56	3.24	11.34	4.86
harvest (kg)	28.80	30.70	15.86	3.26	14.95	5.90
overage (kg)	9.30	10.00	8.30	0.02	3.61	1.04
total quota uptake	148%	148%	210%	101%	132%	121%
>100% quota date (Catch)	9/17/19	9/13/20	09/10/21	10/13/21	09/08/21	09/16/21
days fished	33	12	9	42	38	46
3 days prior	9/14/19	9/10/20	09/07/21	10/10/21	09/05/21	09/13/21
% quota uptake (Registered)	54%	6%	13%	89%	56%	60%

Results - Sums

	2019	2020	2021			
	Total	Total	NW - prof	NW - rec	SW - prof	SW - rec
individual	54%	6%	13%	89%	56%	60%
2021 average					55%	
2021 wt'd average					49%	
Overall average			38%			
Overall wt'd average			39%			

Caveats

- 3 years of data
 - 2 different data types
 - Annual variation
- Past performance does not guarantee future performance
 - May be indicative
 - Best available
 - Ability to inform increases with increasing data
- Management target - 100% quota uptake
- 3-day notification period
- Minor data issues

Scenario Testing (2021 only)

Scenario		<u>NW - prof</u>	<u>NW - rec</u>	<u>SW - prof</u>	<u>SW - rec</u>	<u>Total</u>	<u>% total TAC</u>
16% (NW - prof)	Reg (date+3)	09/11/21	09/12/21	08/20/21	08/21/21		
	Catch (harvest)	8.26	1.92	3.86	1.52	15.57	58%
81% (NW - rec)	Reg (date+3)	09/23/21	10/03/21	09/13/21	09/23/21		
	Catch (harvest)	15.92	3.20	14.17	5.80	39.10	145%
56% (SW - prof)	Reg (date+3)	09/20/21	09/26/21	09/08/21	09/13/21		
	Catch (harvest)	14.06	3.07	11.48	4.36	32.98	122%
60% (SW - rec)	Reg (date+3)	09/23/21	09/26/21	09/09/21	09/16/21		
	Catch (harvest)	15.92	3.07	11.85	4.89	35.74	132%
55% (average)	Reg (date+3)	09/20/21	09/26/21	09/08/21	09/11/21		
	Catch (harvest)	14.06	3.07	11.48	4.24	32.86	122%
49% (wt'd average)	Reg (date+3)	9/19/2021	9/25/2021	9/5/2021	9/10/2021		
	Catch (harvest)	13.64	3.07	9.67	4.19	30.57	113%