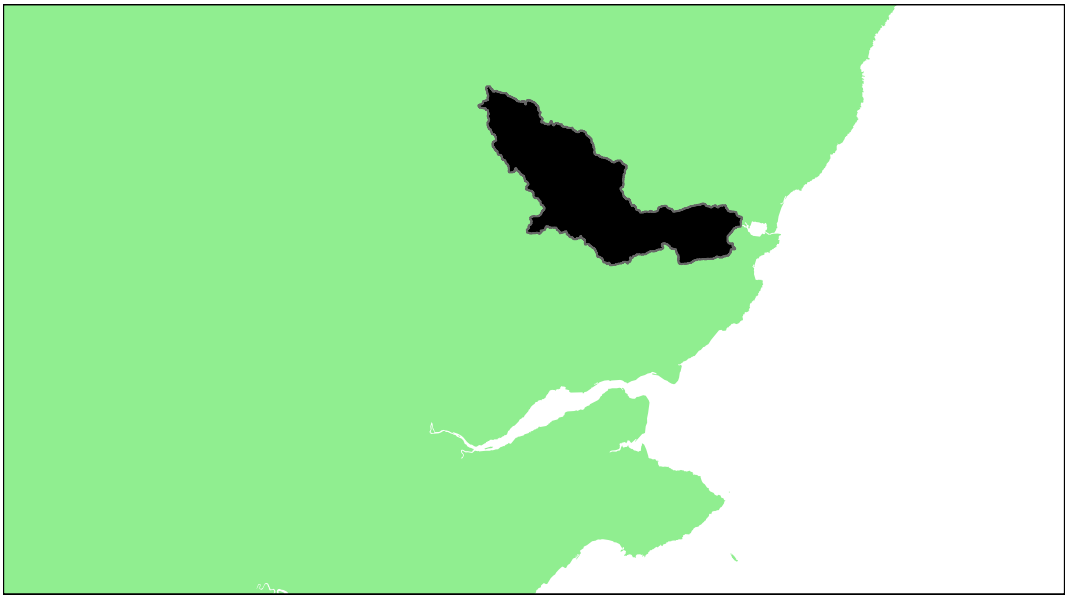
North East Region

River South Esk SAC: Grade 2



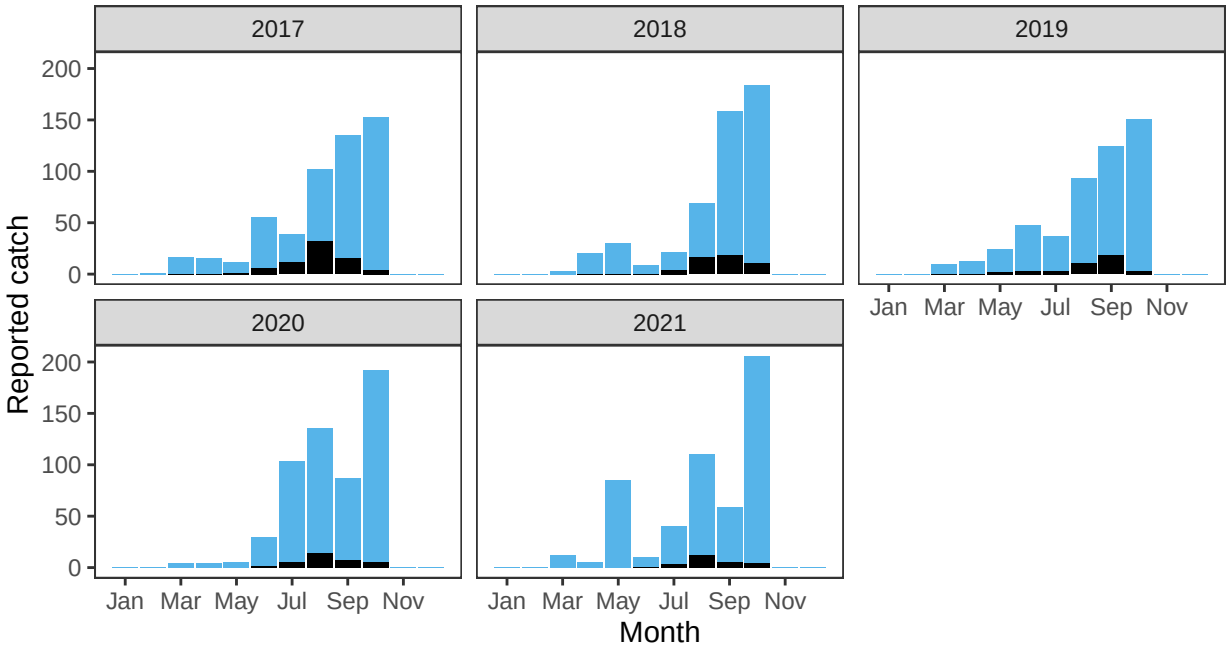
Summary Table

Eggs required (m^2)[a]	Area (m^2)[a]	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2017	2018	2019	2020	2021	Overall	
2.84	2,027,900	5,757,312	74.61	67.07	66.14	80.41	72.82	72.21	2

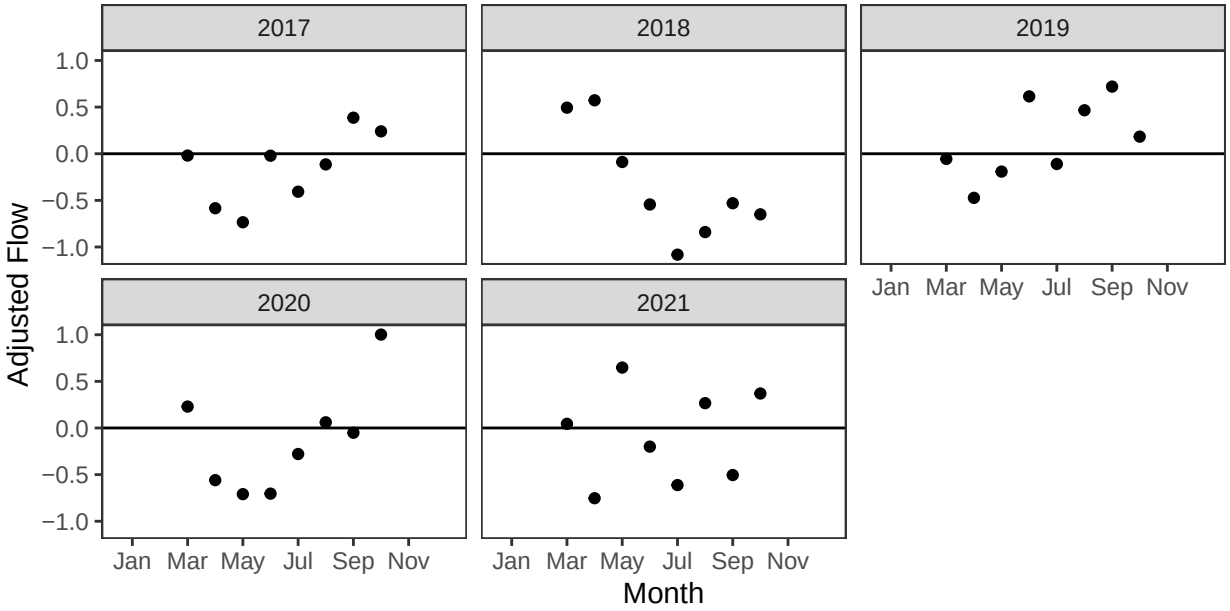
[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

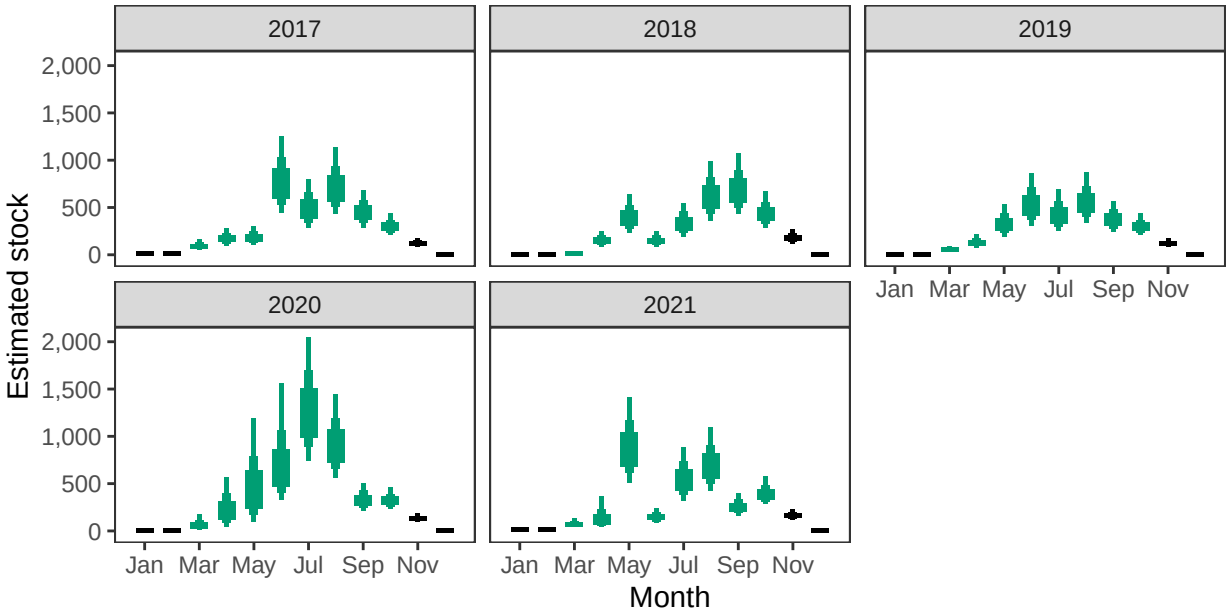
Reported Catches (black = retained, blue = released)



Monthly flow data

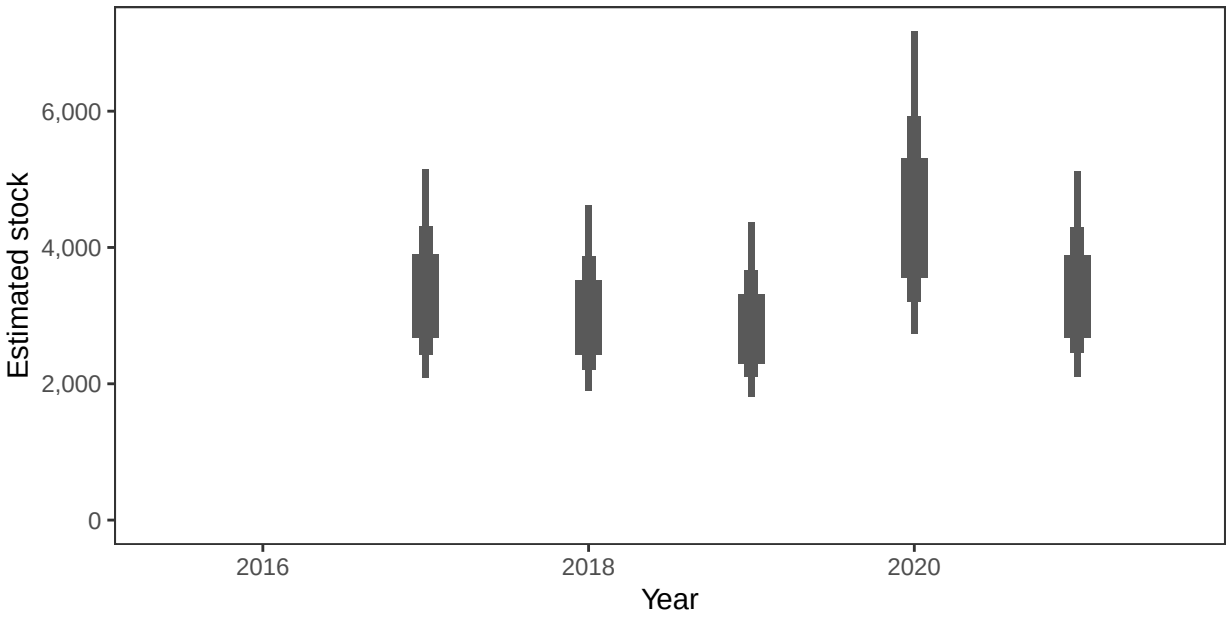


Monthly stock estimates (out of season in black)



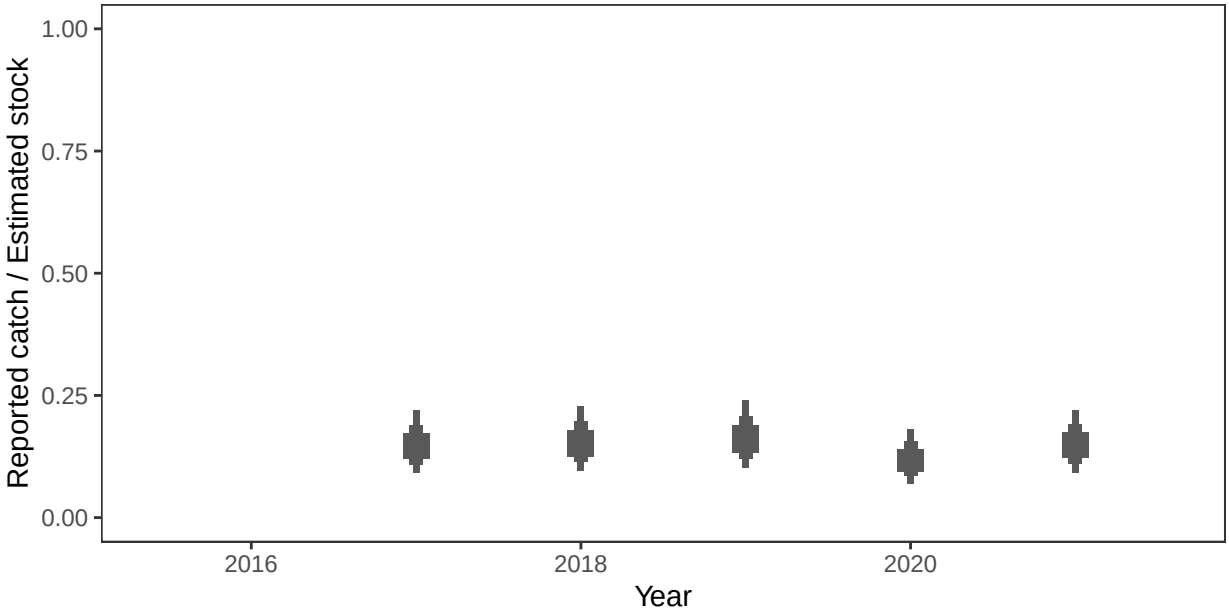
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

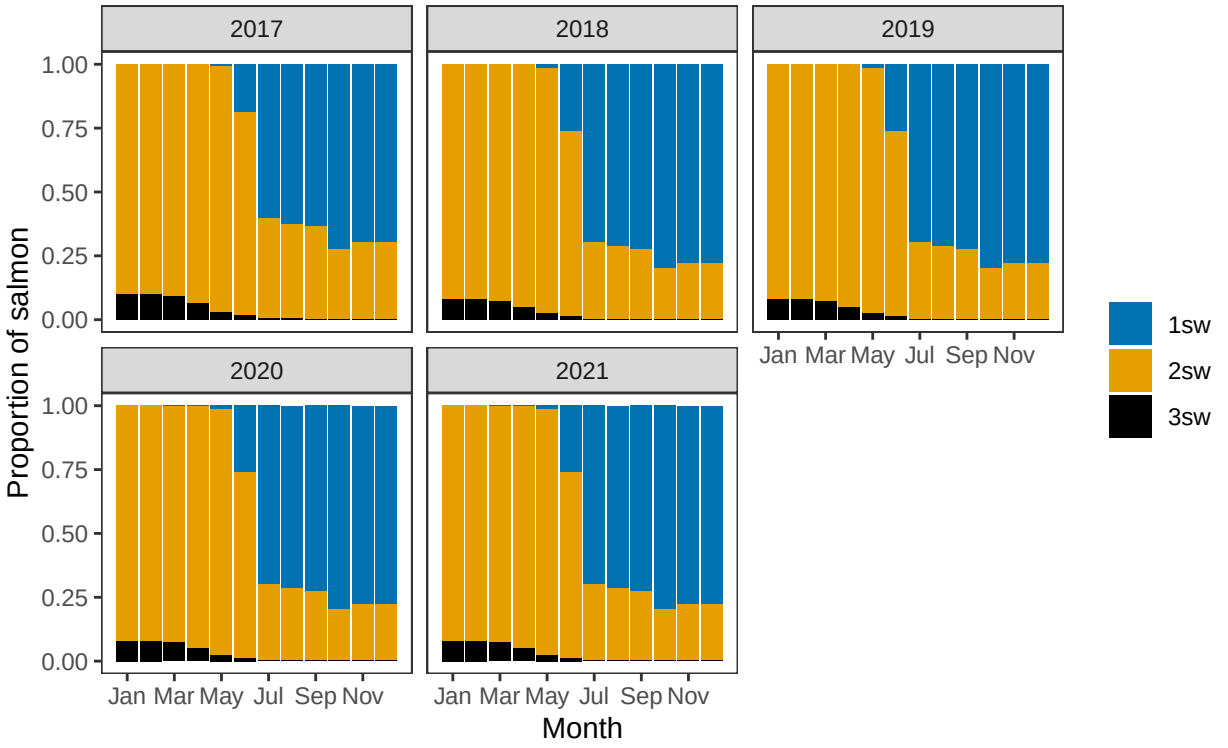
Annual catch as a proportion of stock



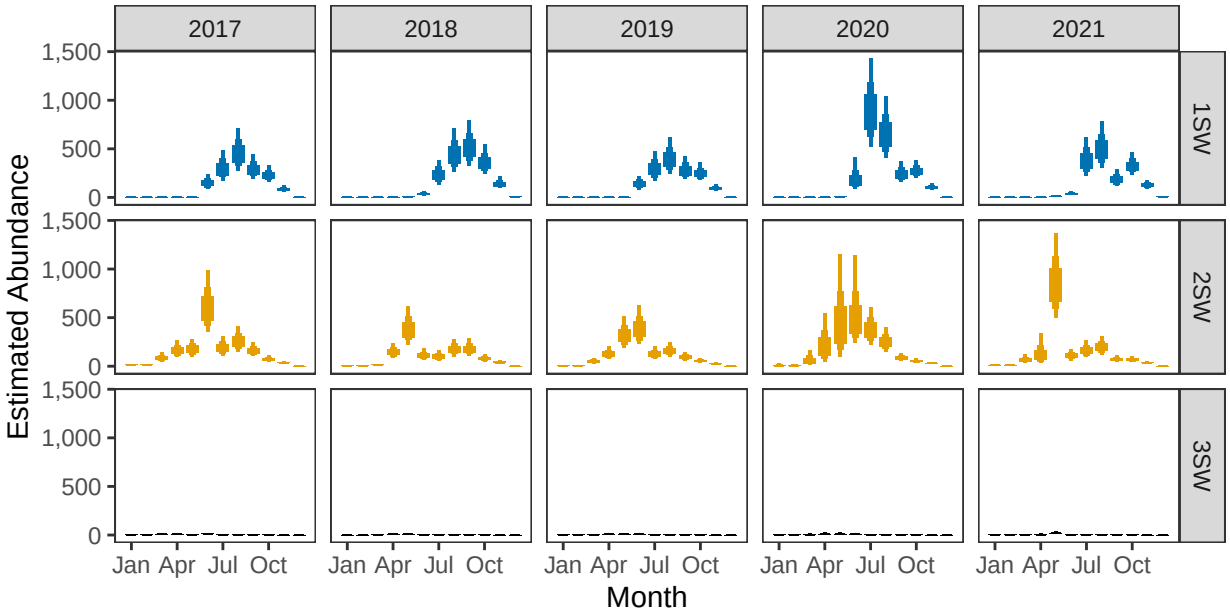
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish



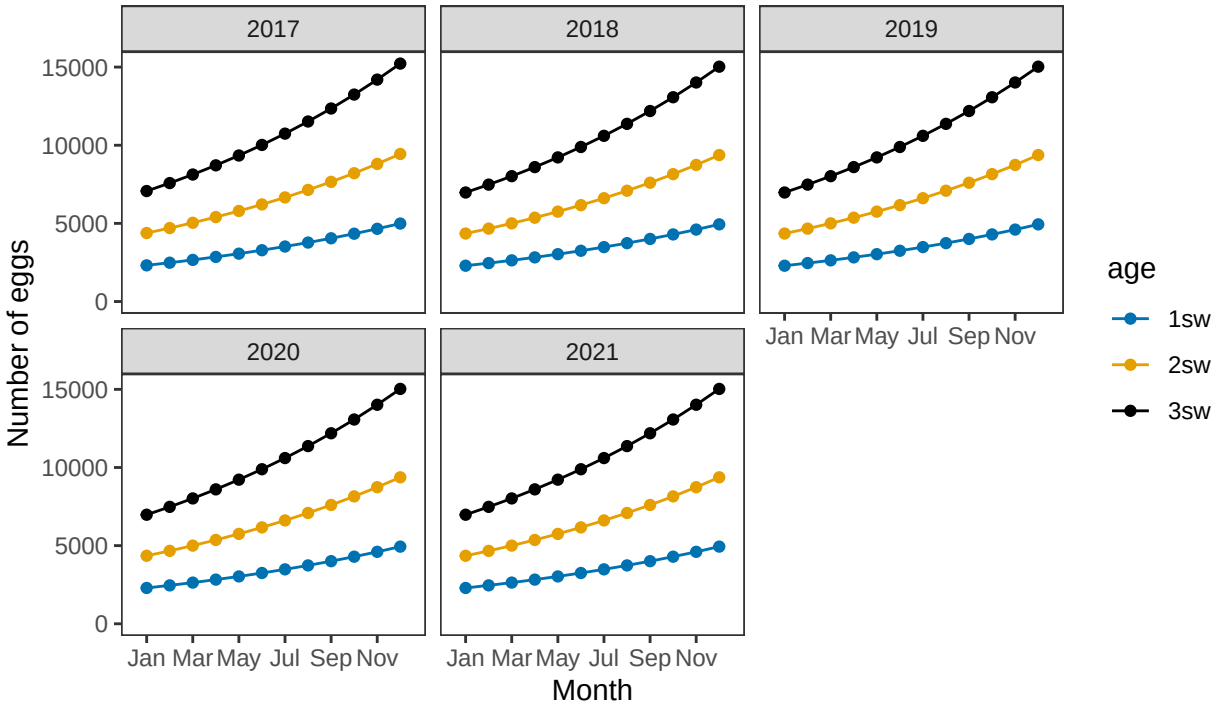
Monthly number of spawning females



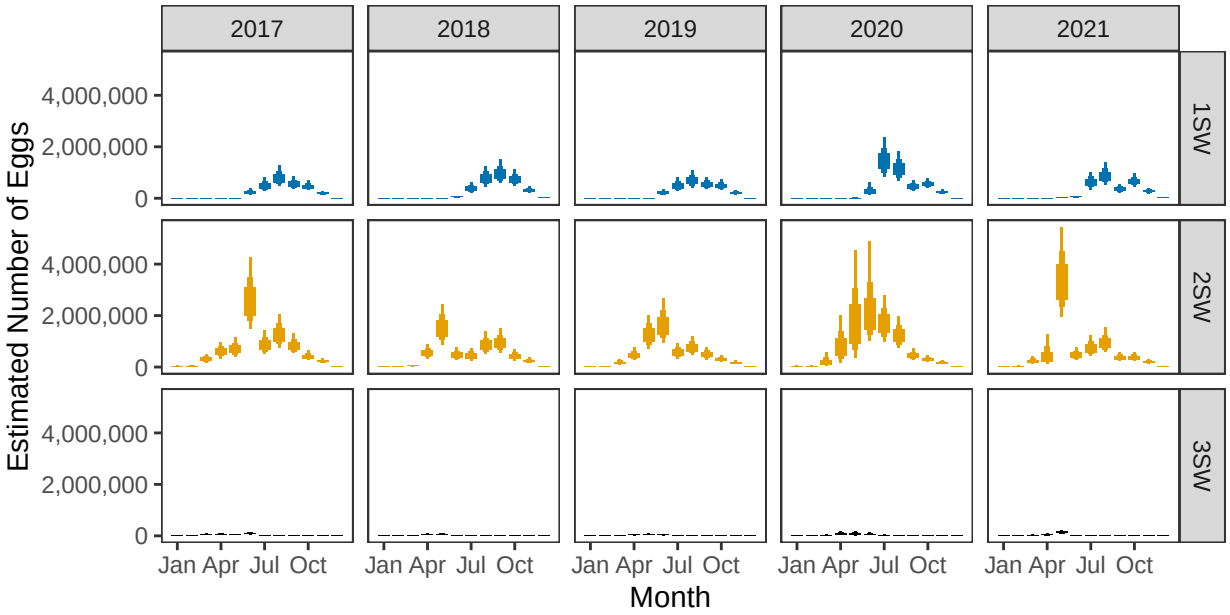
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

3. Converting Number of Spawners to Number of Eggs

Egg contents of females

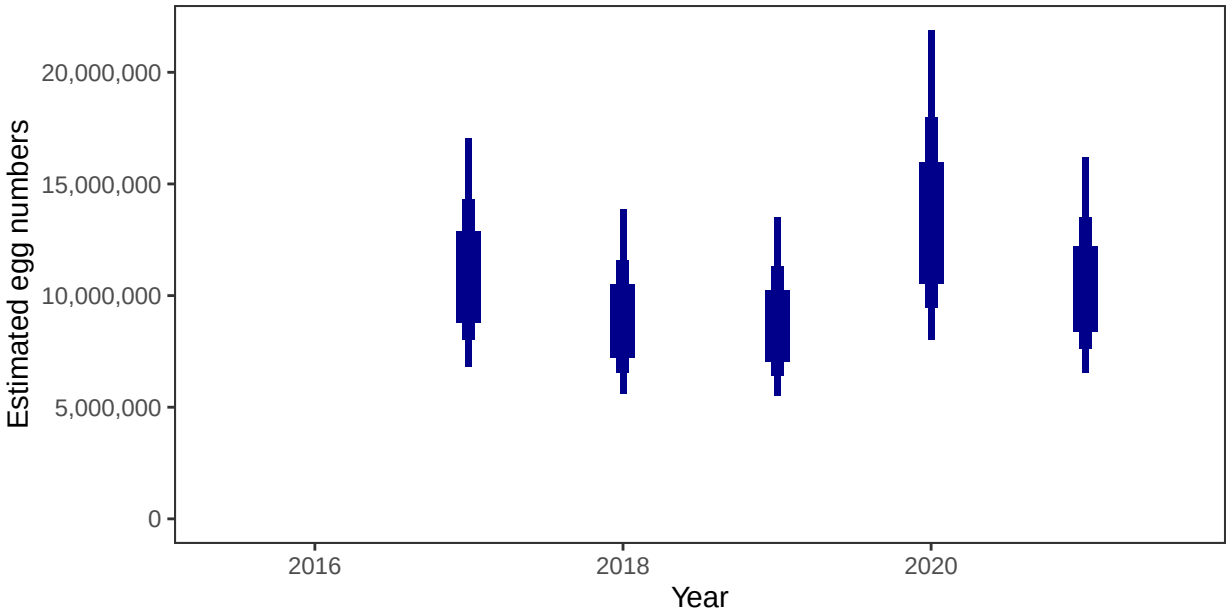


Monthly number of eggs



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Total annual egg numbers



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

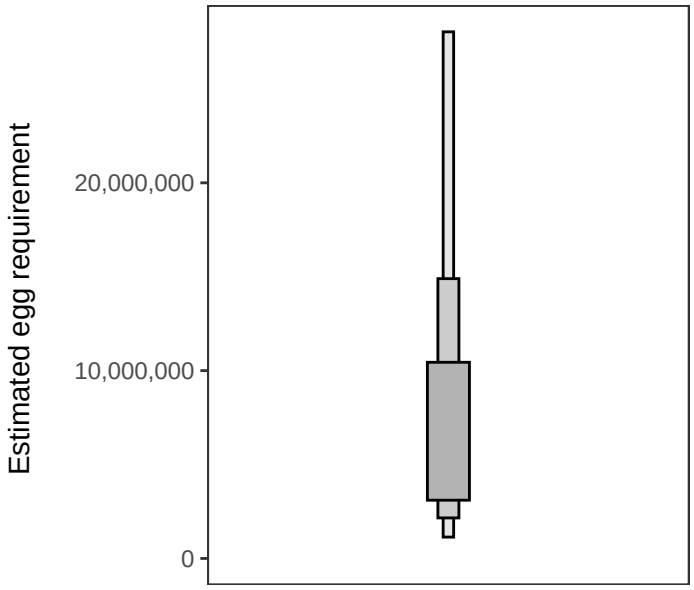
Year	Percentage above
2017	74.61
2018	67.07
2019	66.14
2020	80.41
2021	72.82

4. Egg requirement

Areas of salmon habitat in square meters

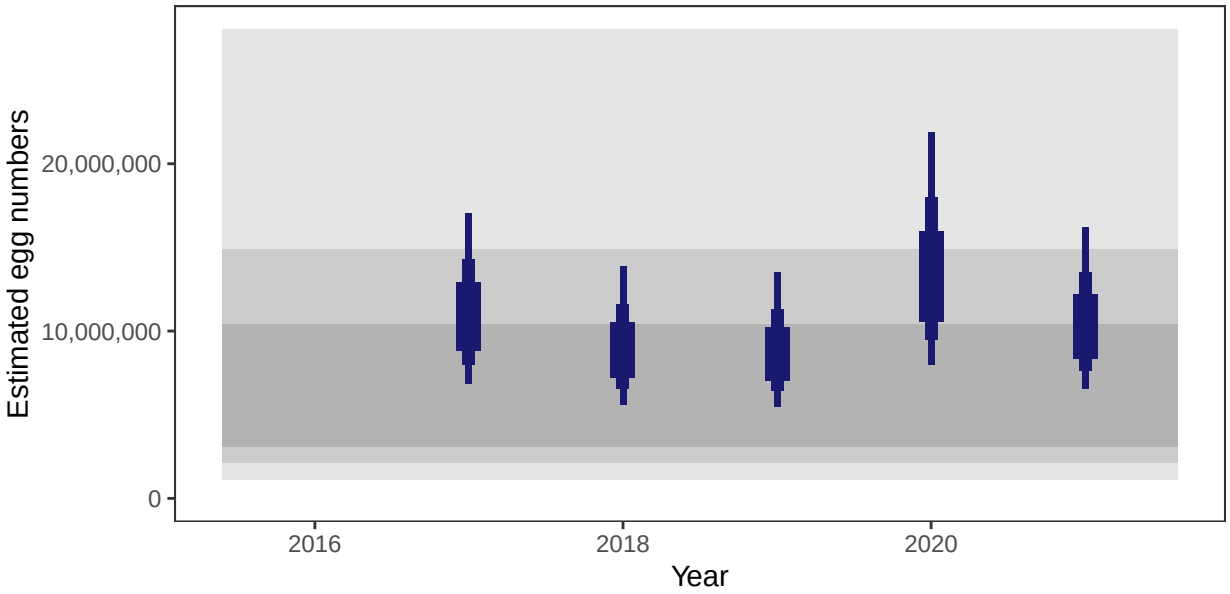
There is an estimated 2,281,060 square meters of known salmon habitat in the River South Esk SAC and a further 23,422 square meters where salmon may be present.

Egg requirement



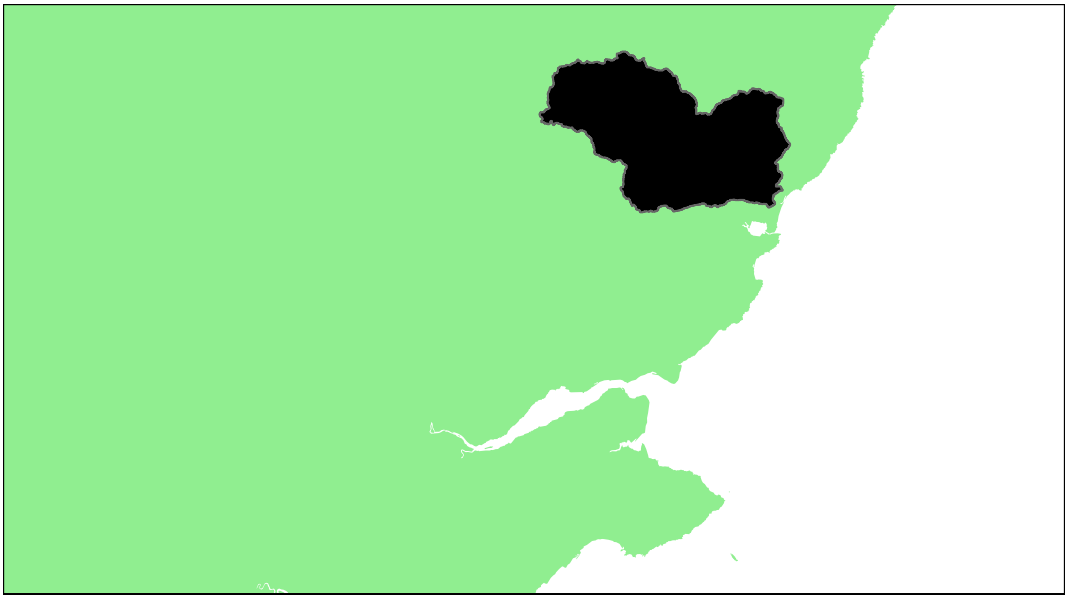
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)

River North Esk: Grade 1



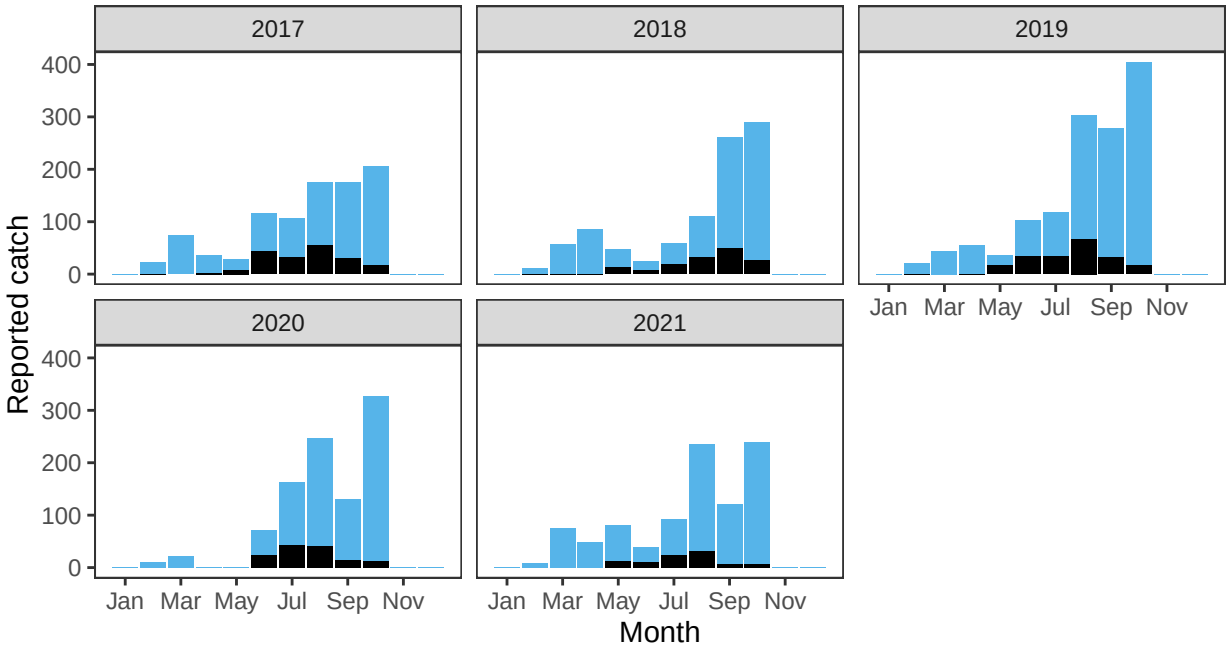
Summary Table

Eggs required (m^2)[a]	Area (m^2)[a]	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2017	2018	2019	2020	2021	Overall	
8.27	2,310,600	19,104,783	87.37	44.88	91.81	98.65	98.95	84.33	1

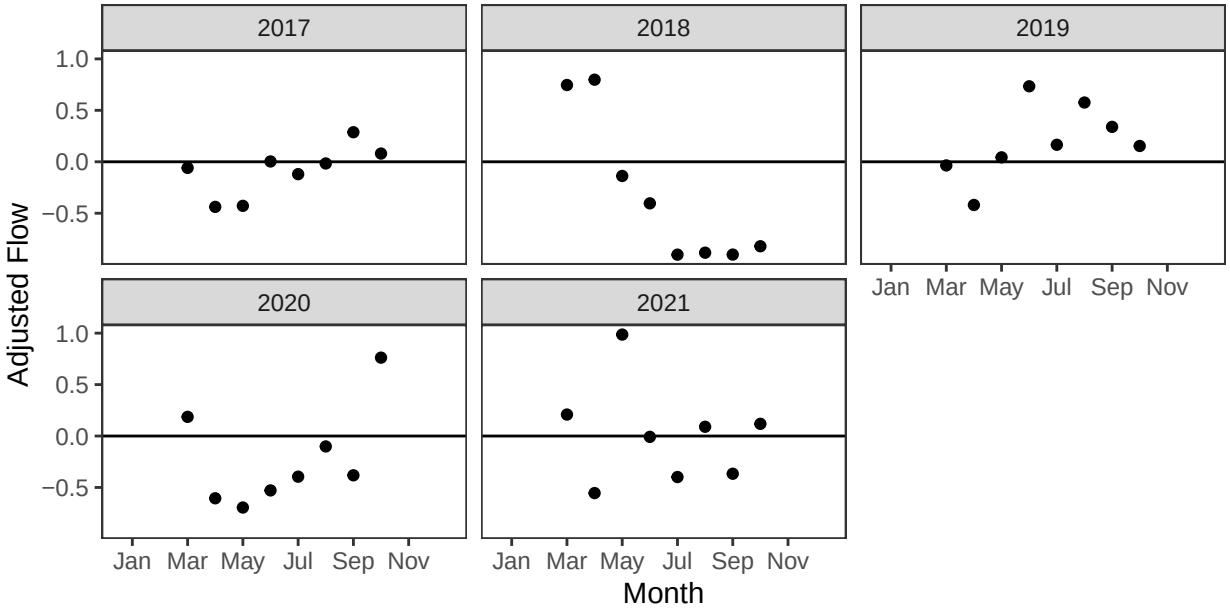
[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

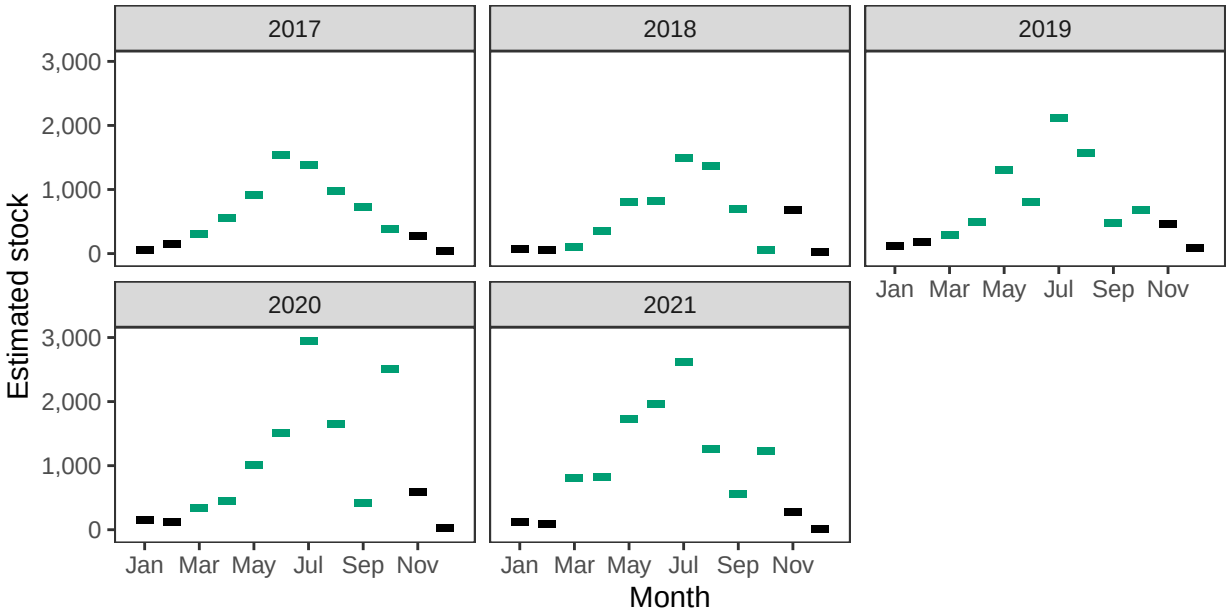
Reported Catches (black = retained, blue = released)



Monthly flow data

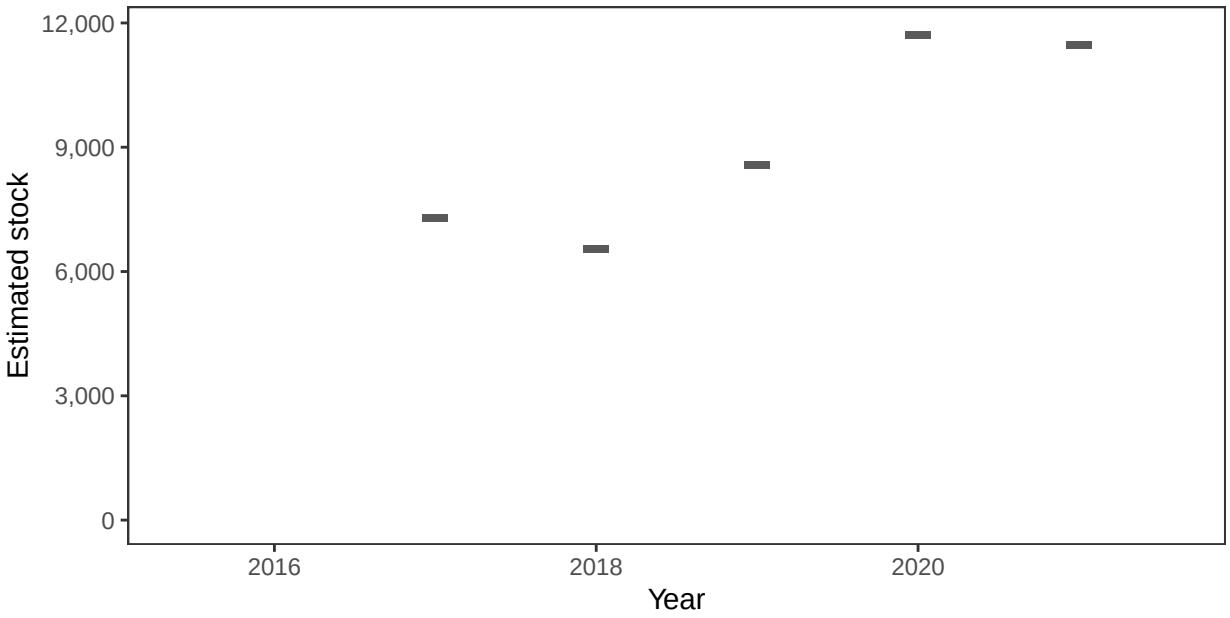


Monthly stock estimates (out of season in black)



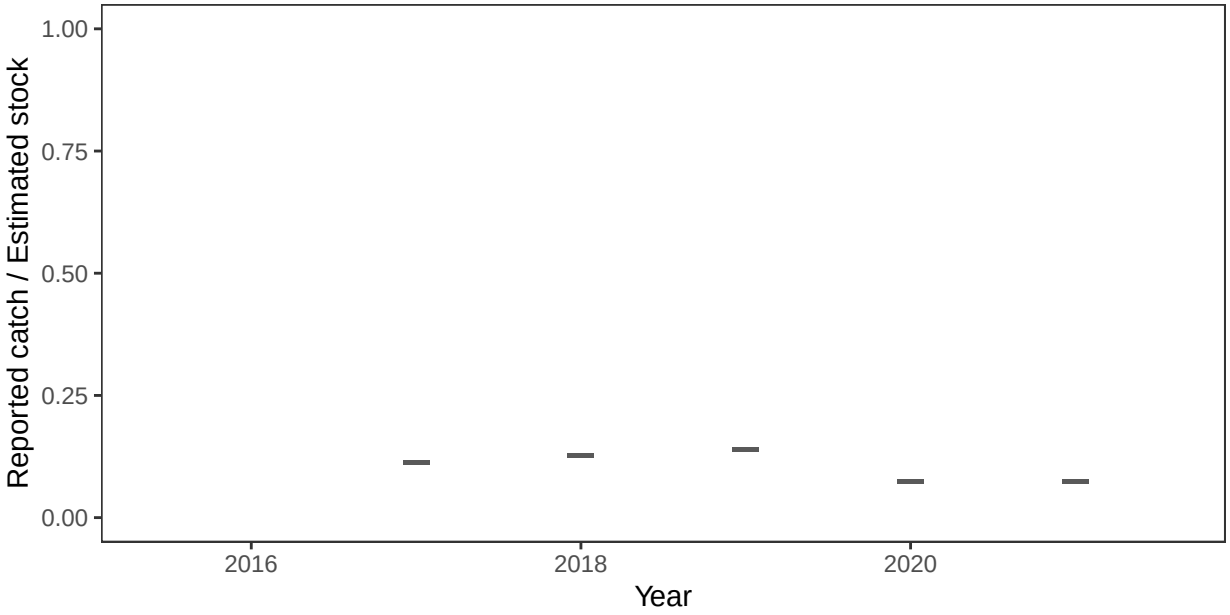
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

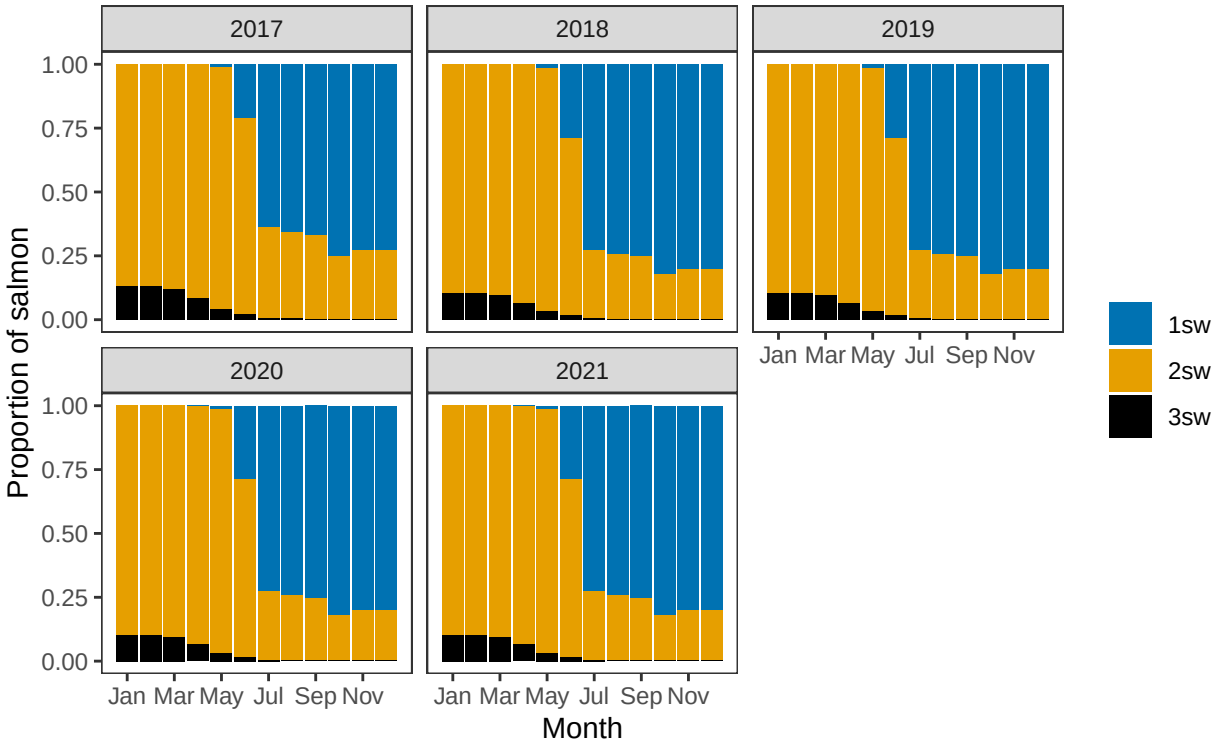
Annual catch as a proportion of stock



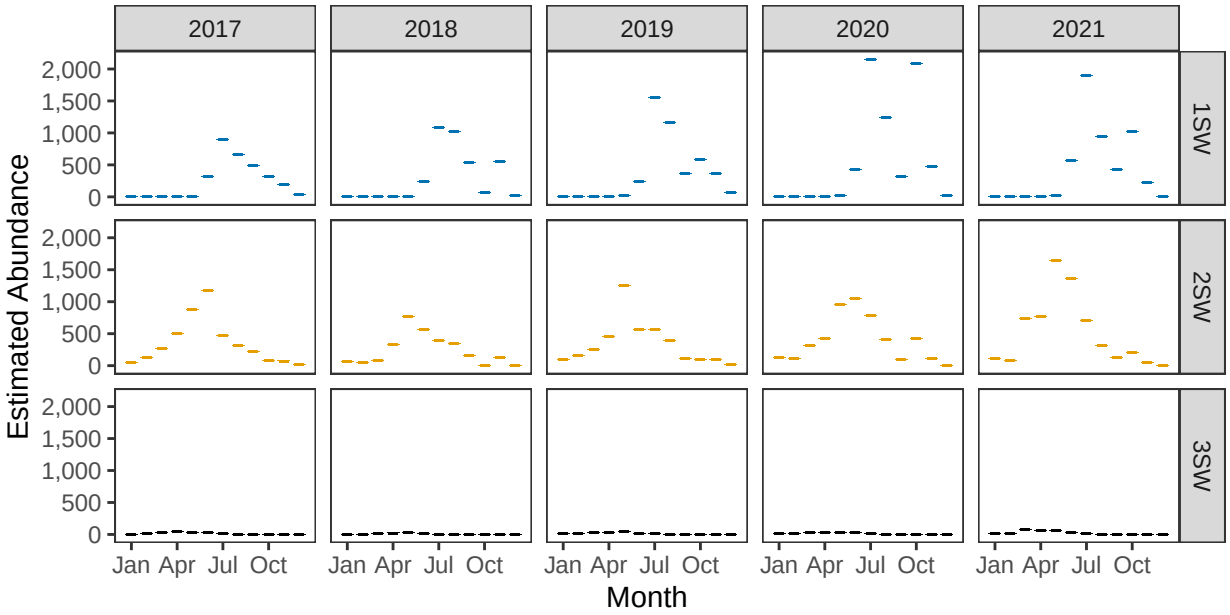
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish



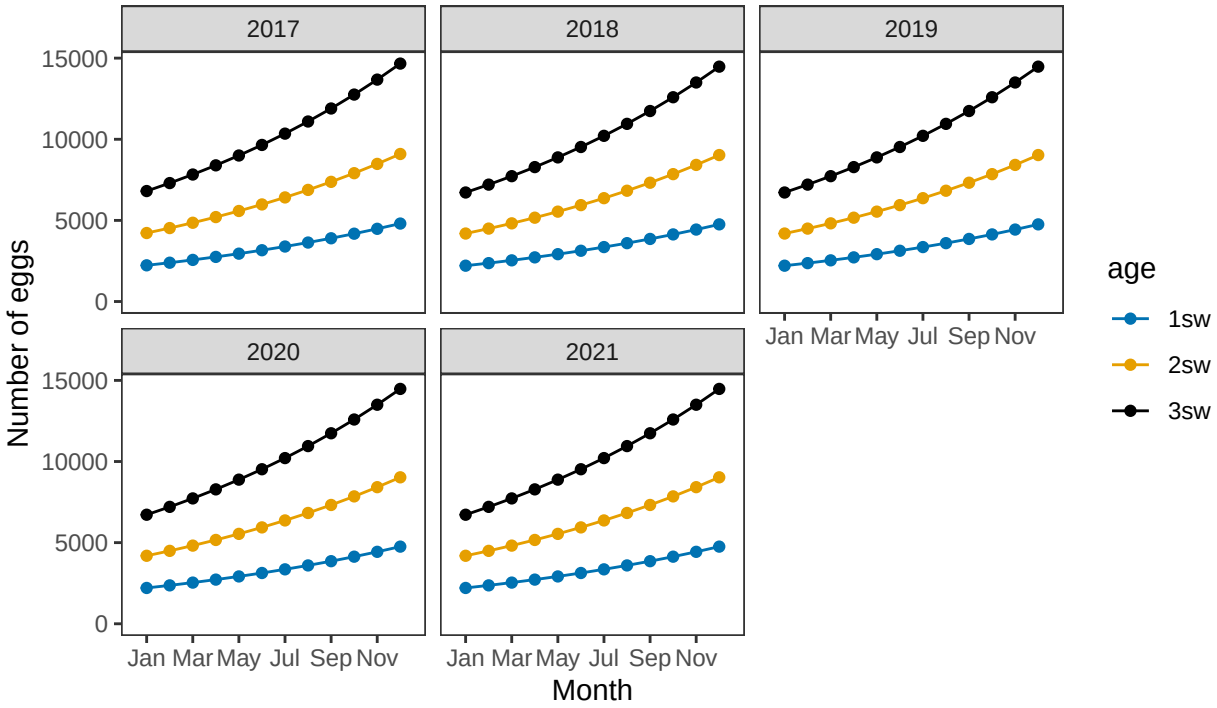
Monthly number of spawning females



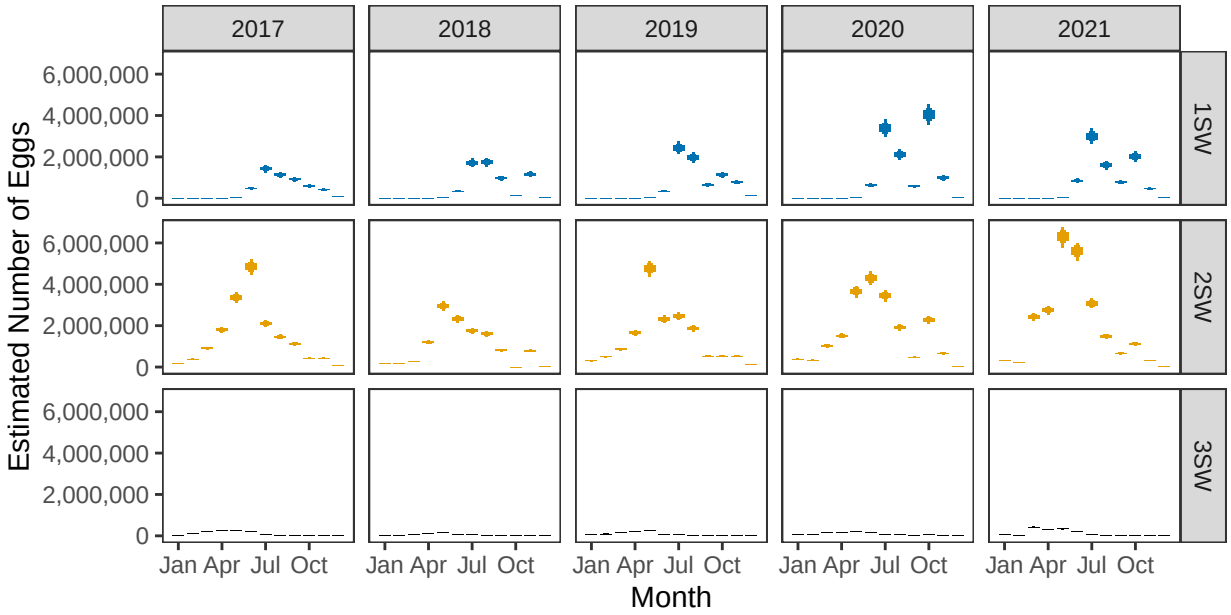
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

3. Converting Number of Spawners to Number of Eggs

Egg contents of females

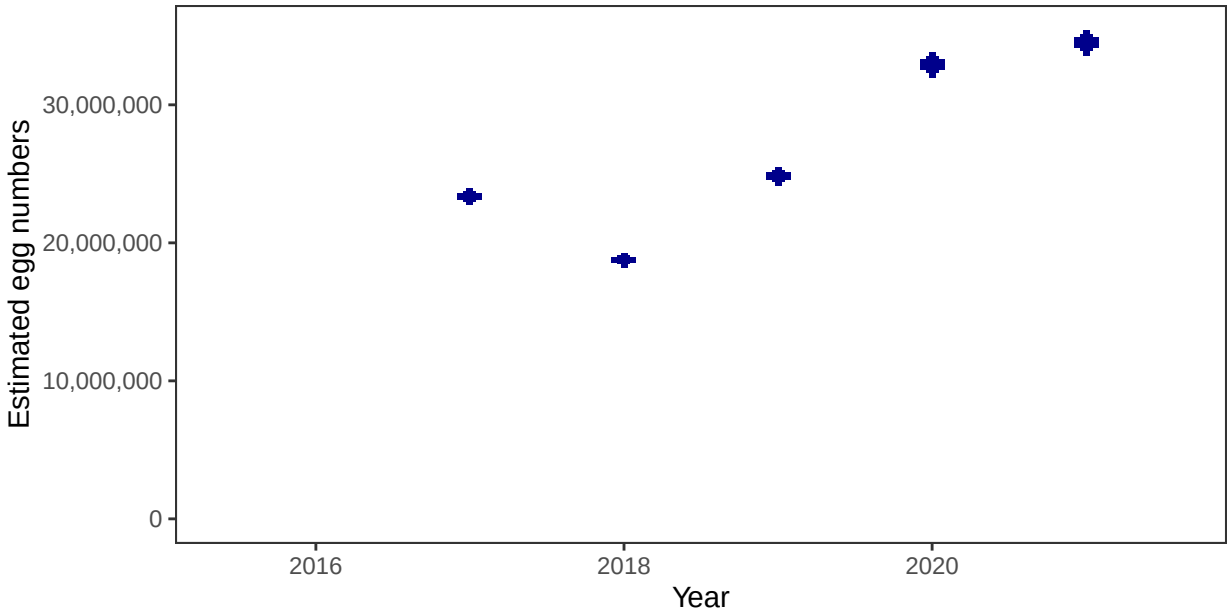


Monthly number of eggs



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Total annual egg numbers



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

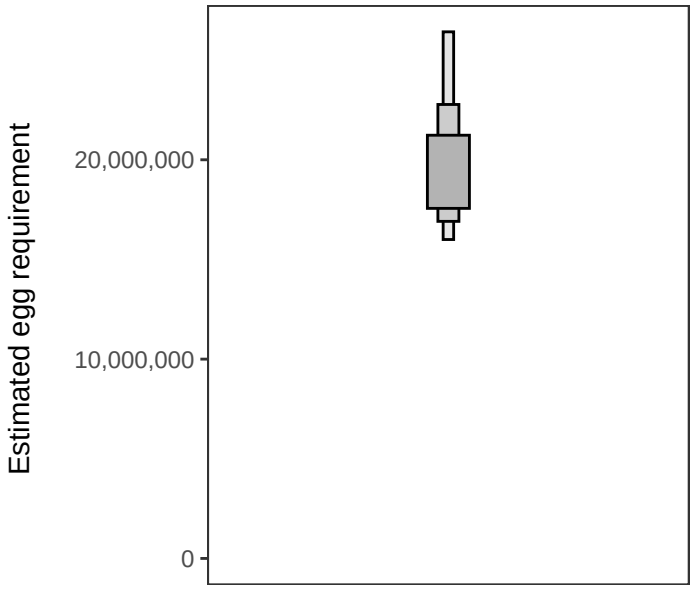
Year	Percentage above
2017	87.37
2018	44.88
2019	91.81
2020	98.65
2021	98.95

4. Egg requirement

Areas of salmon habitat in square meters

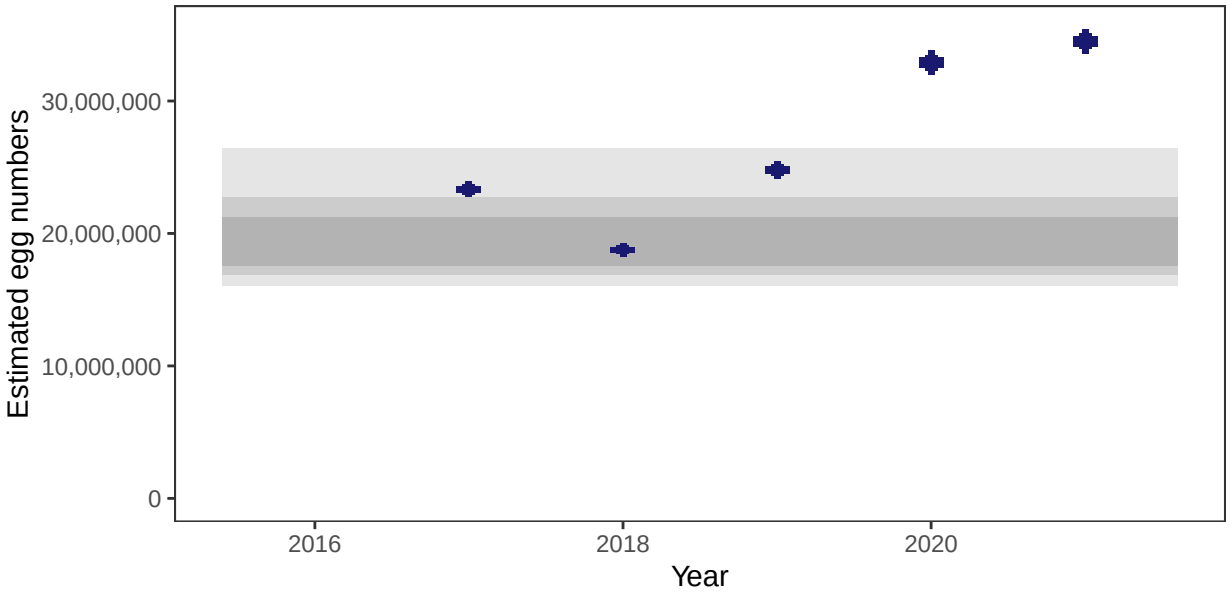
There is an estimated 2,589,901 square meters of known salmon habitat in the River North Esk and a further 35,777 square meters where salmon may be present.

Egg requirement



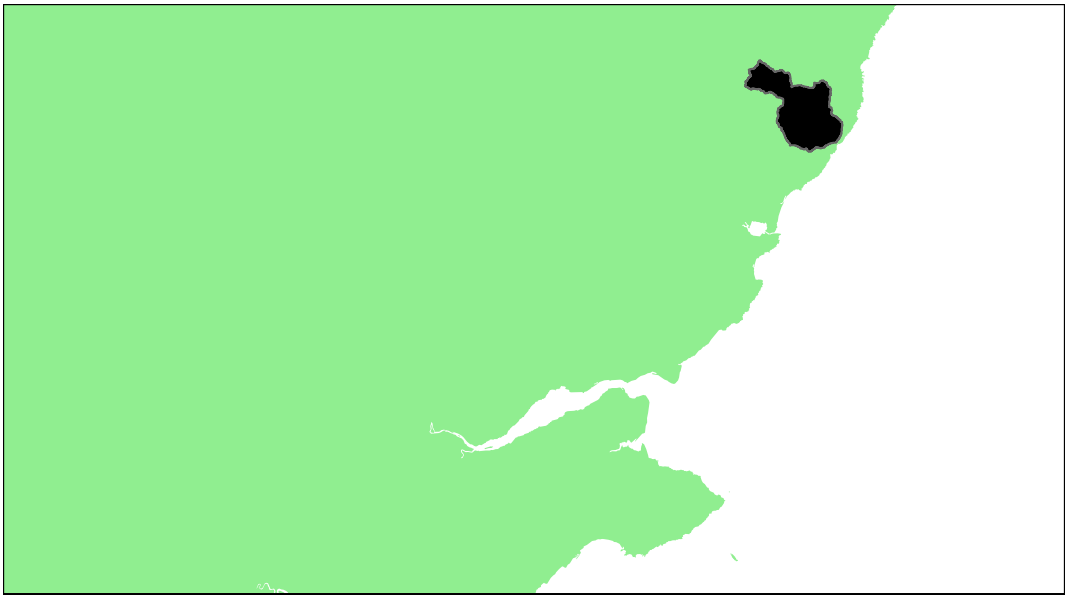
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)

Bervie Water: Grade 3



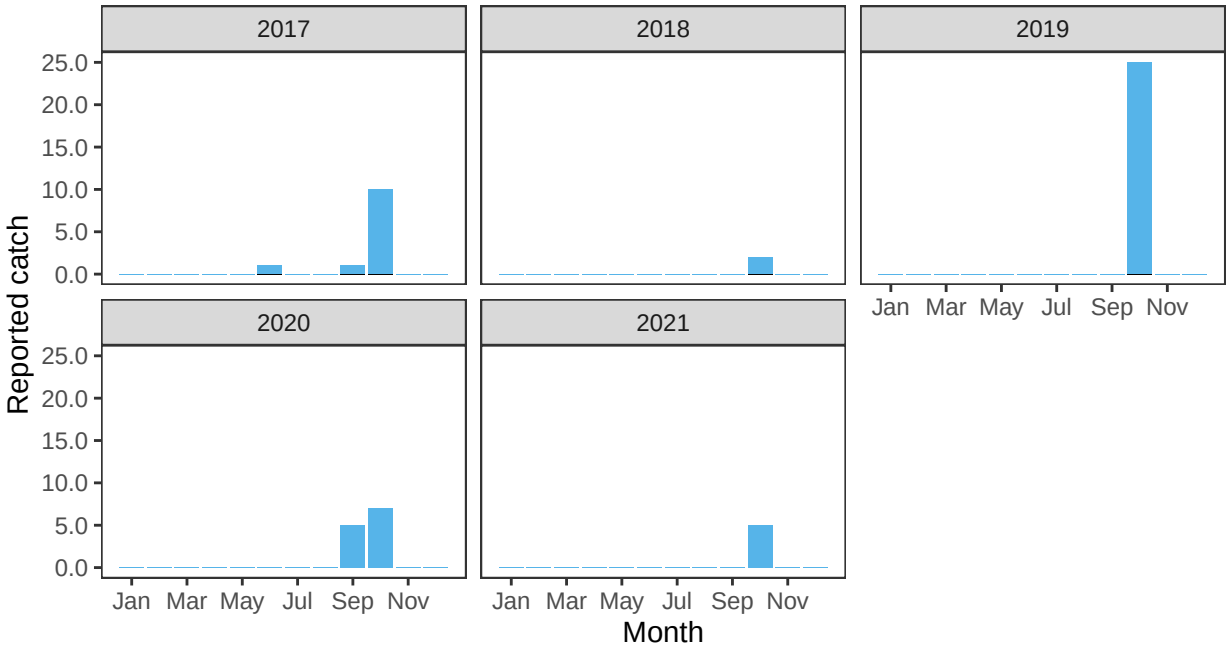
Summary Table

Eggs required (m^2)[a]	Area (m^2)[a]	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2017	2018	2019	2020	2021	Overall	
1.14	226,900	259,409	34.07	3.92	42.46	28.05	10.66	23.83	3

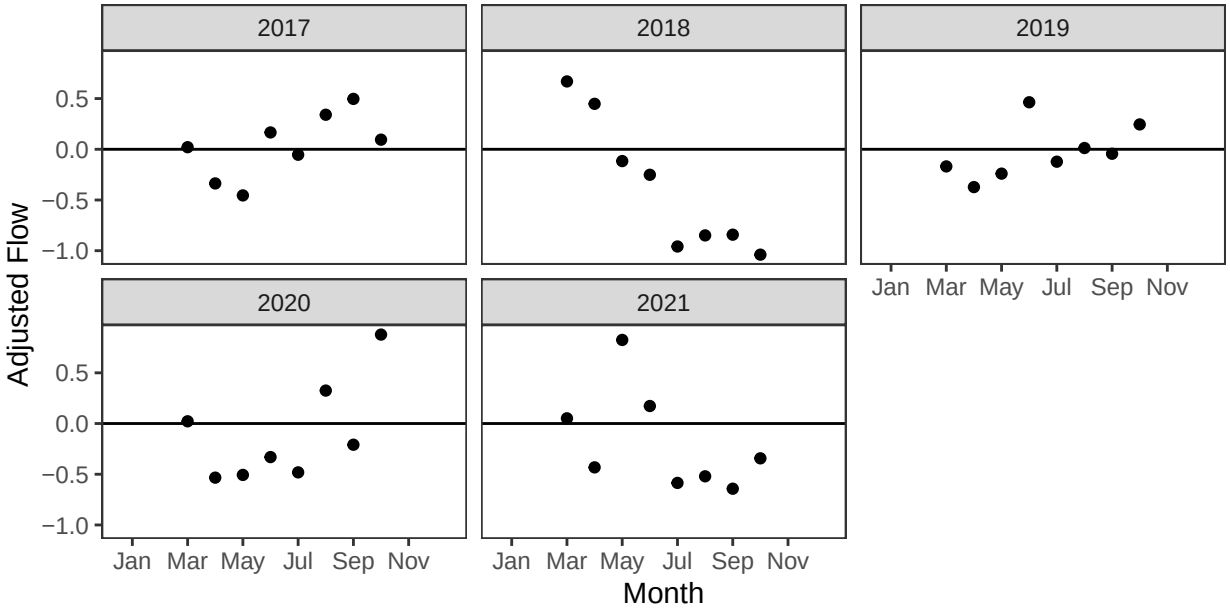
[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

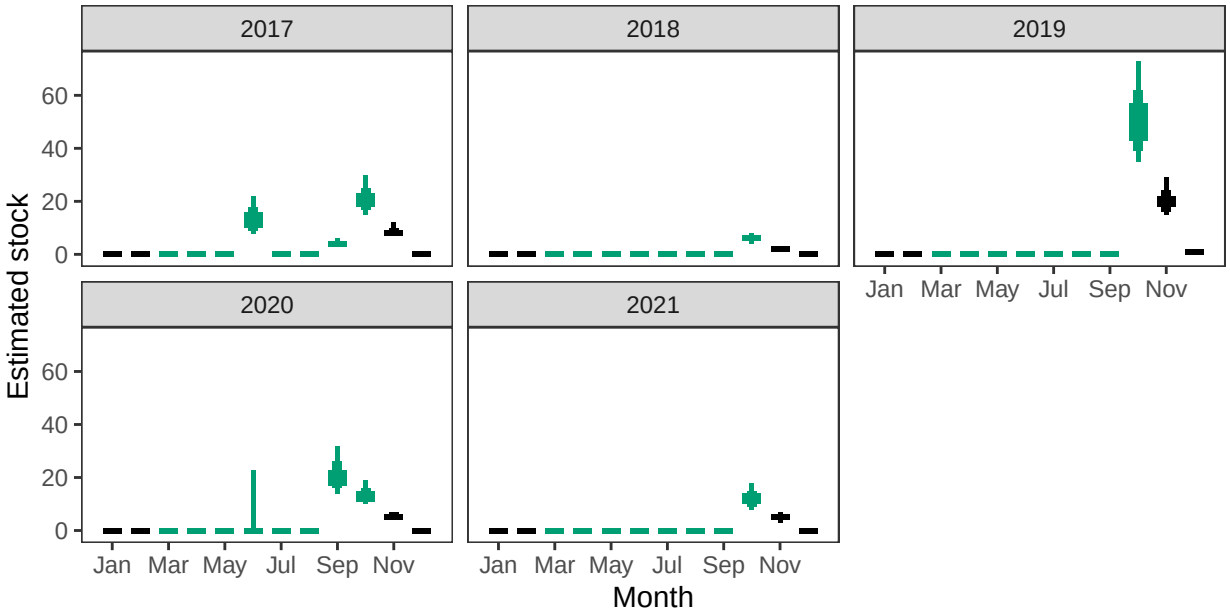
Reported Catches (black = retained, blue = released)



Monthly flow data

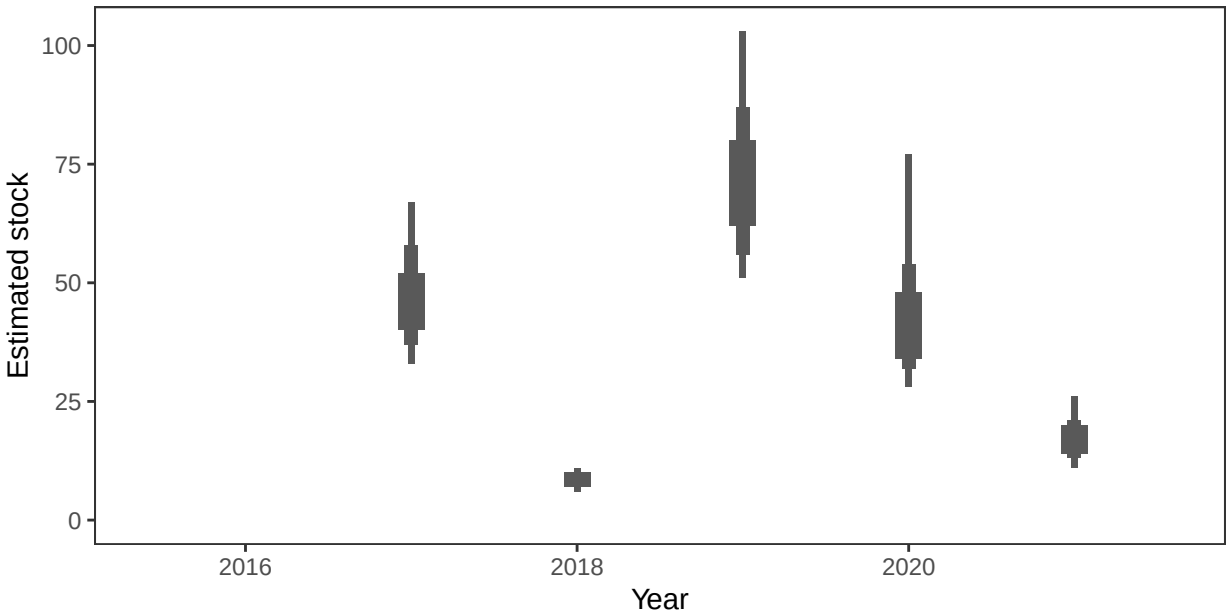


Monthly stock estimates (out of season in black)



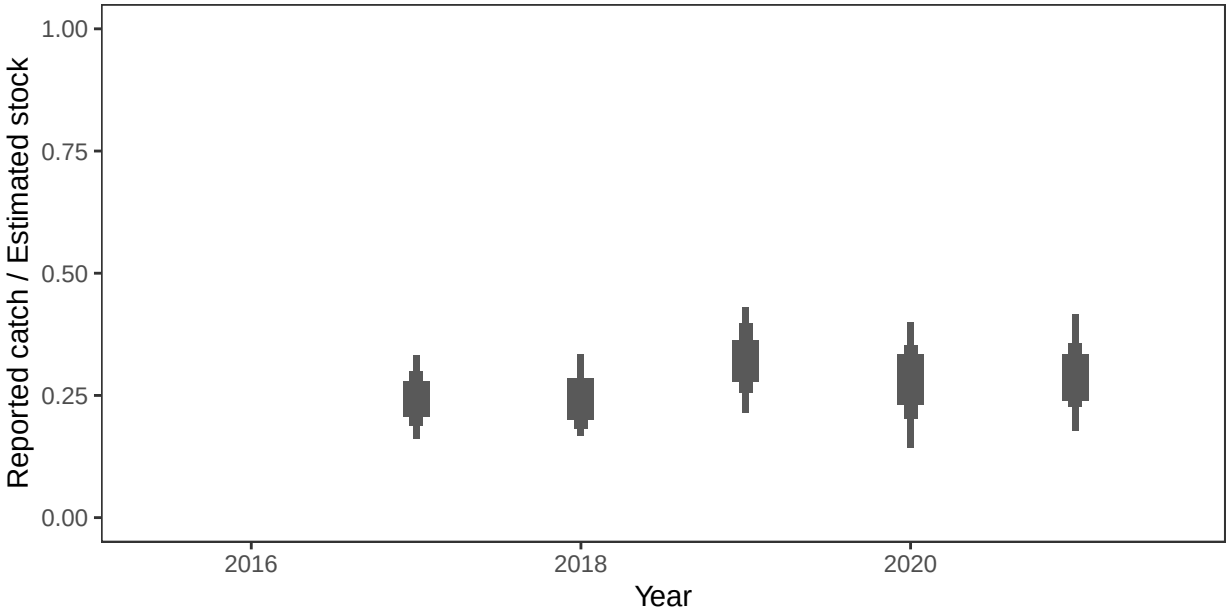
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

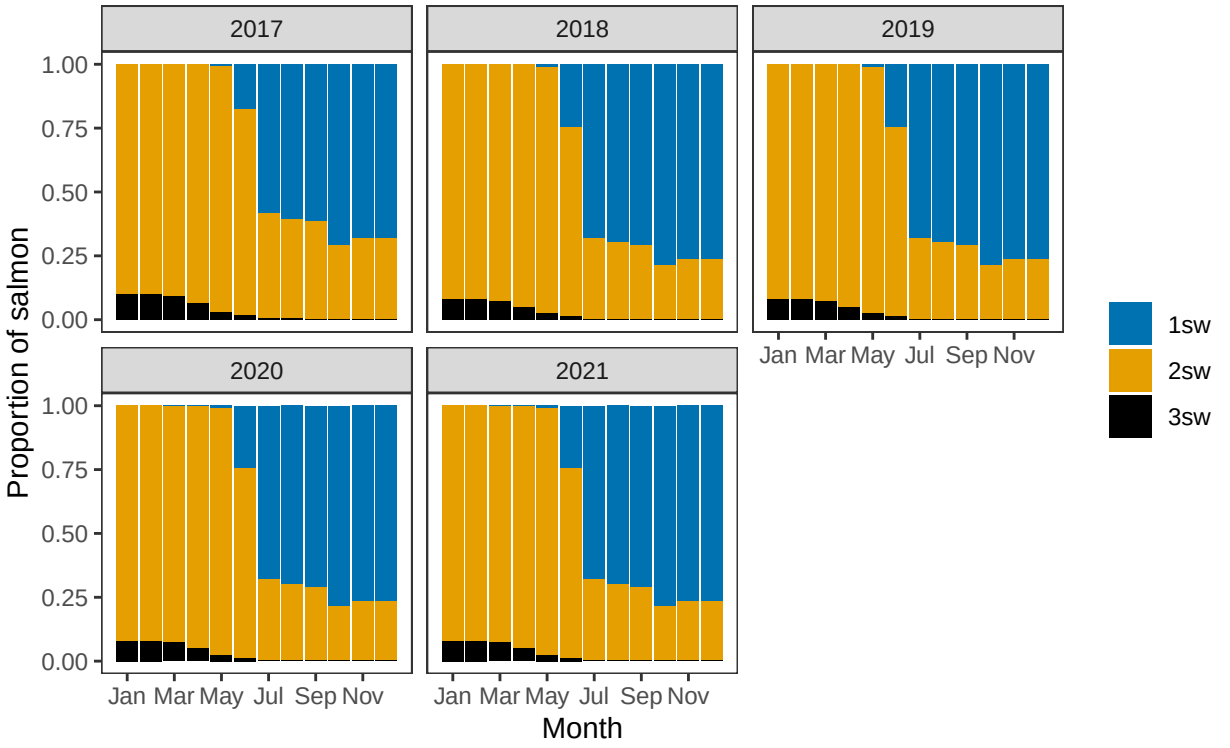
Annual catch as a proportion of stock



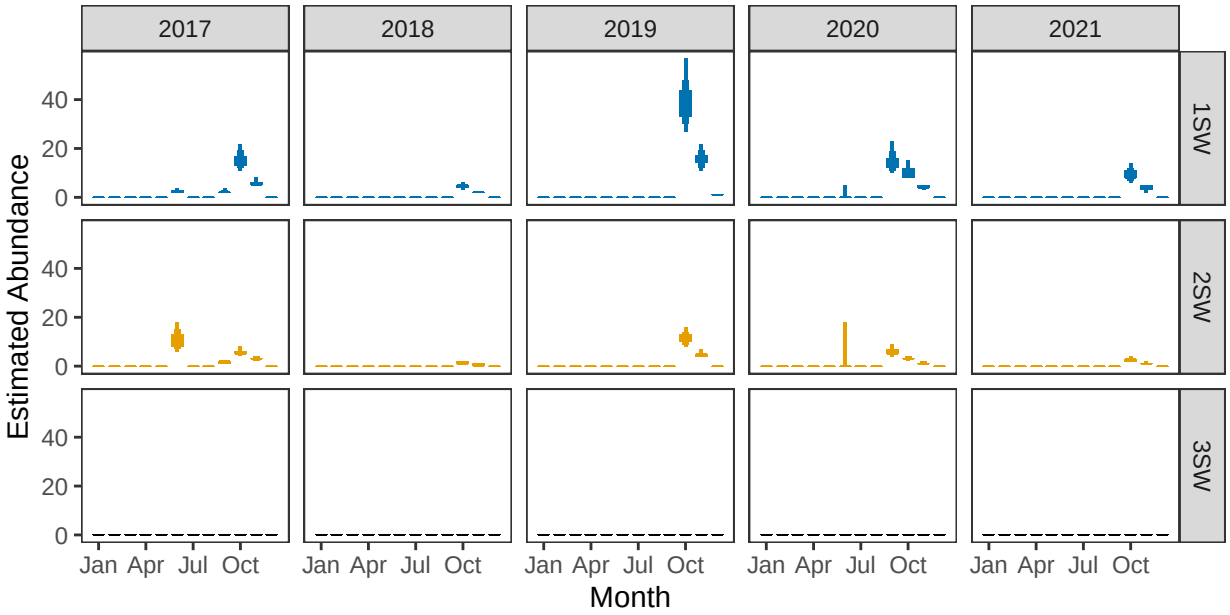
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish



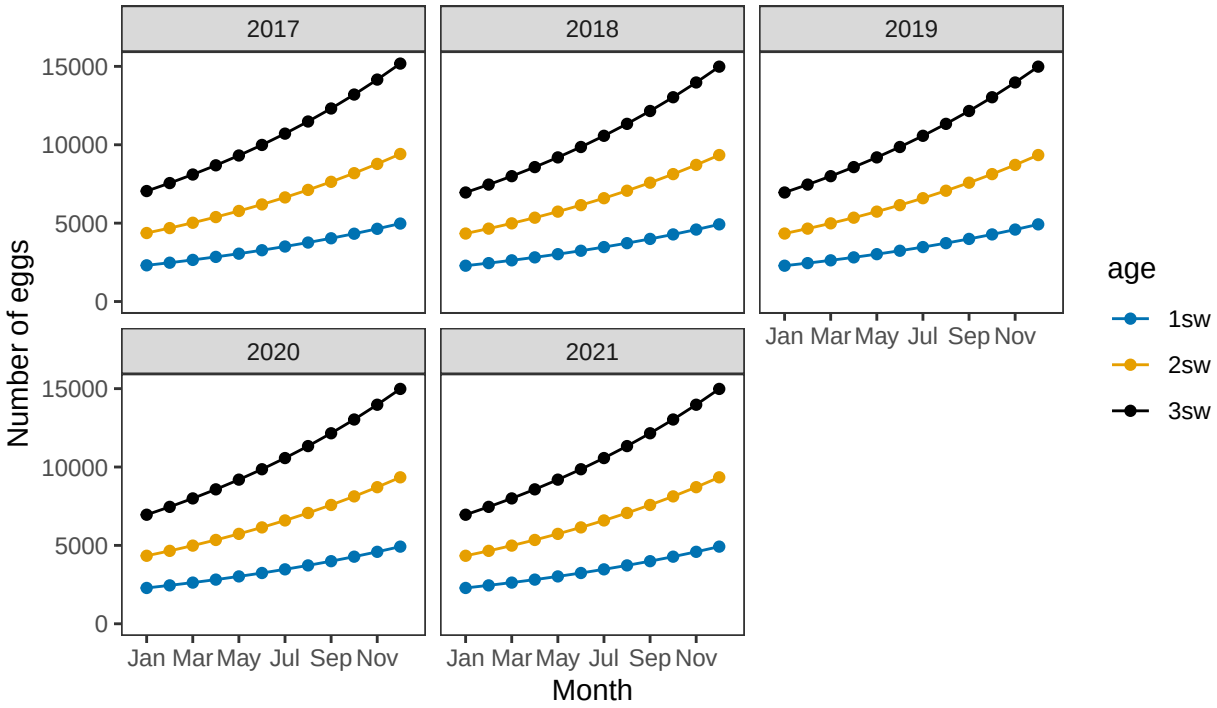
Monthly number of spawning females



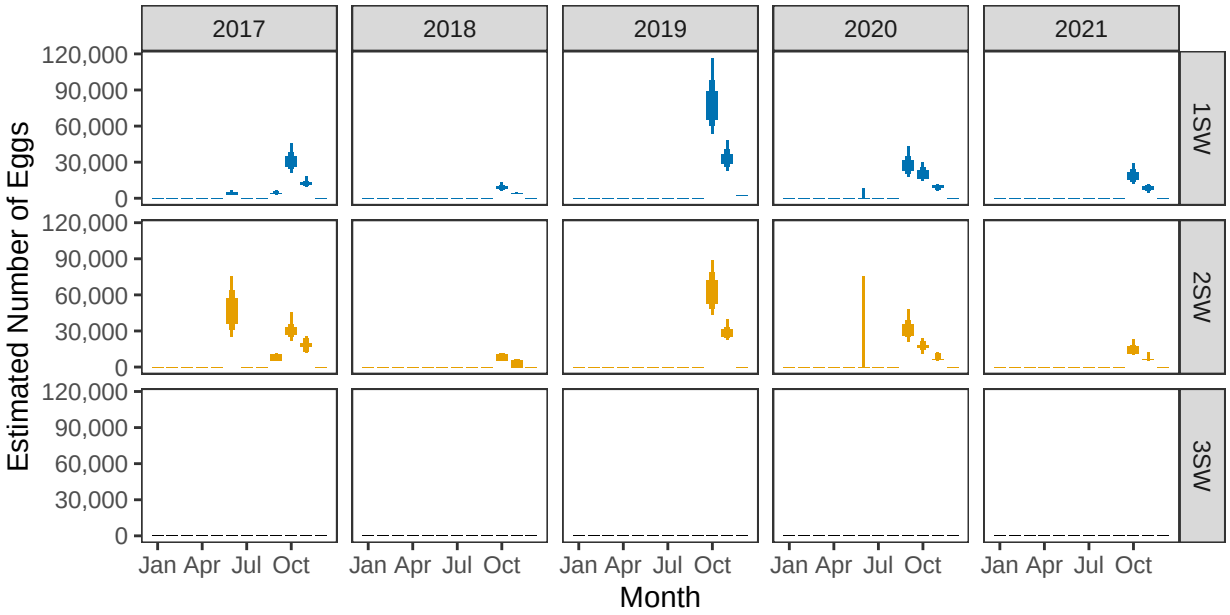
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

3. Converting Number of Spawners to Number of Eggs

Egg contents of females

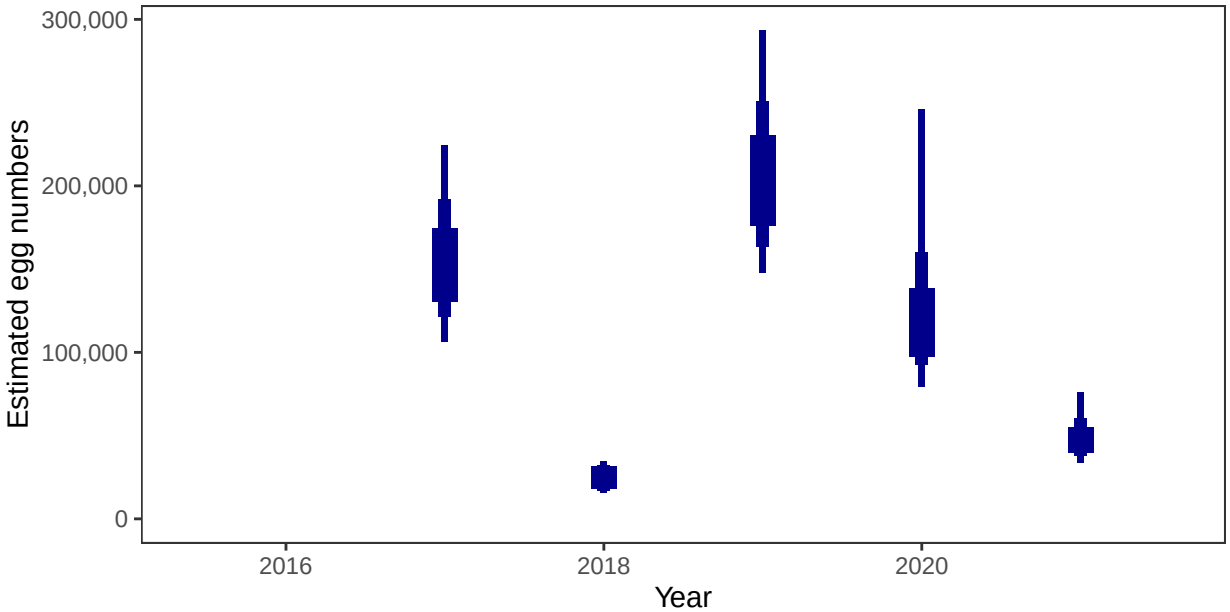


Monthly number of eggs



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Total annual egg numbers



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

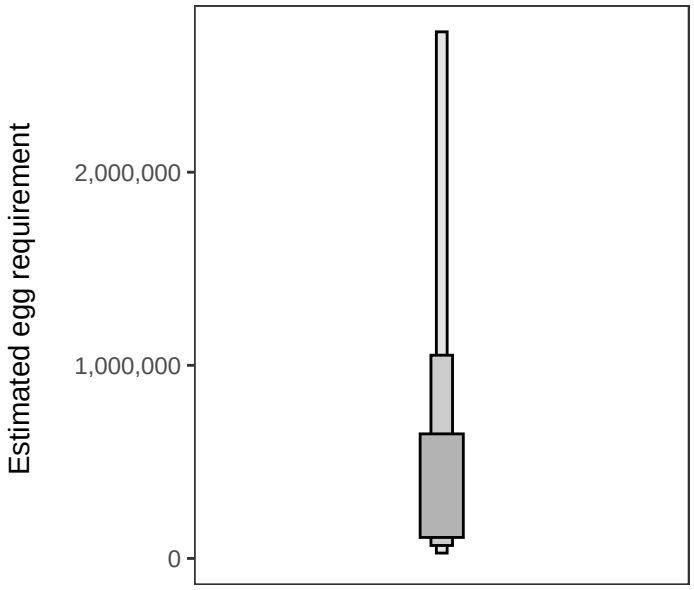
Year	Percentage above
2017	34.07
2018	3.92
2019	42.46
2020	28.05
2021	10.66

4. Egg requirement

Areas of salmon habitat in square meters

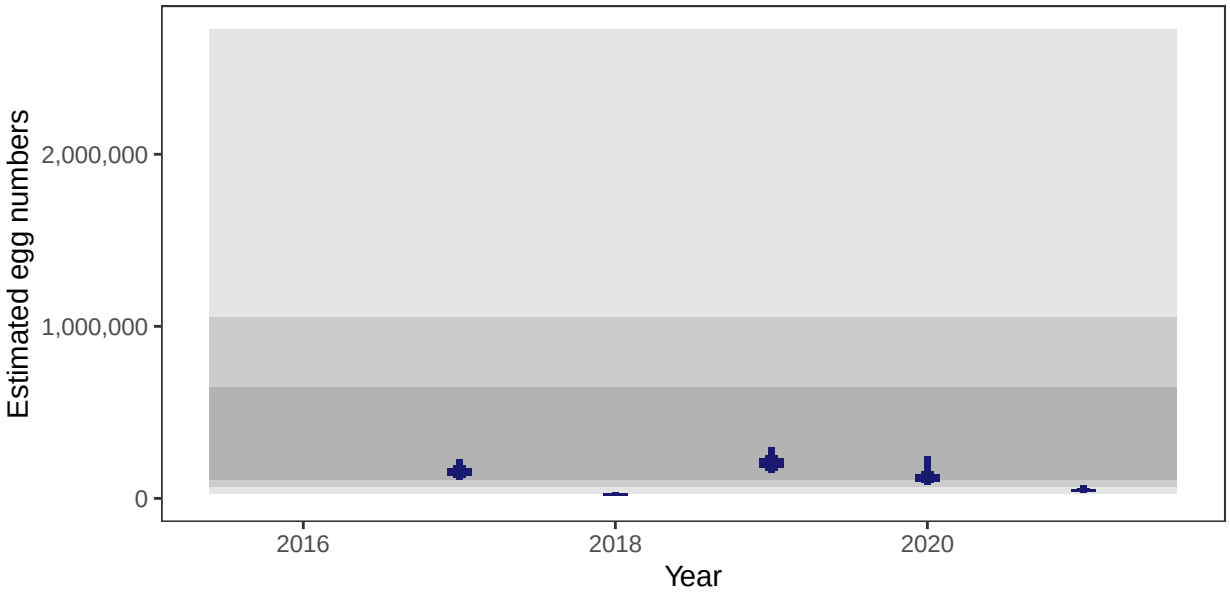
There is an estimated 247,541 square meters of known salmon habitat in the Bervie Water and a further 10,307 square meters where salmon may be present.

Egg requirement



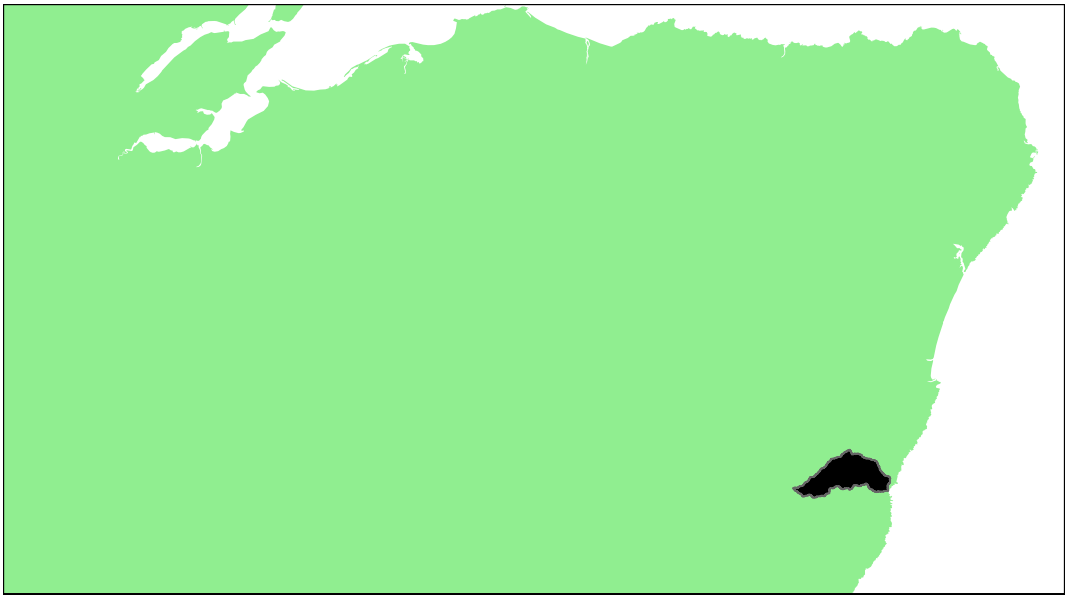
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)

Cowie Water: Grade 3



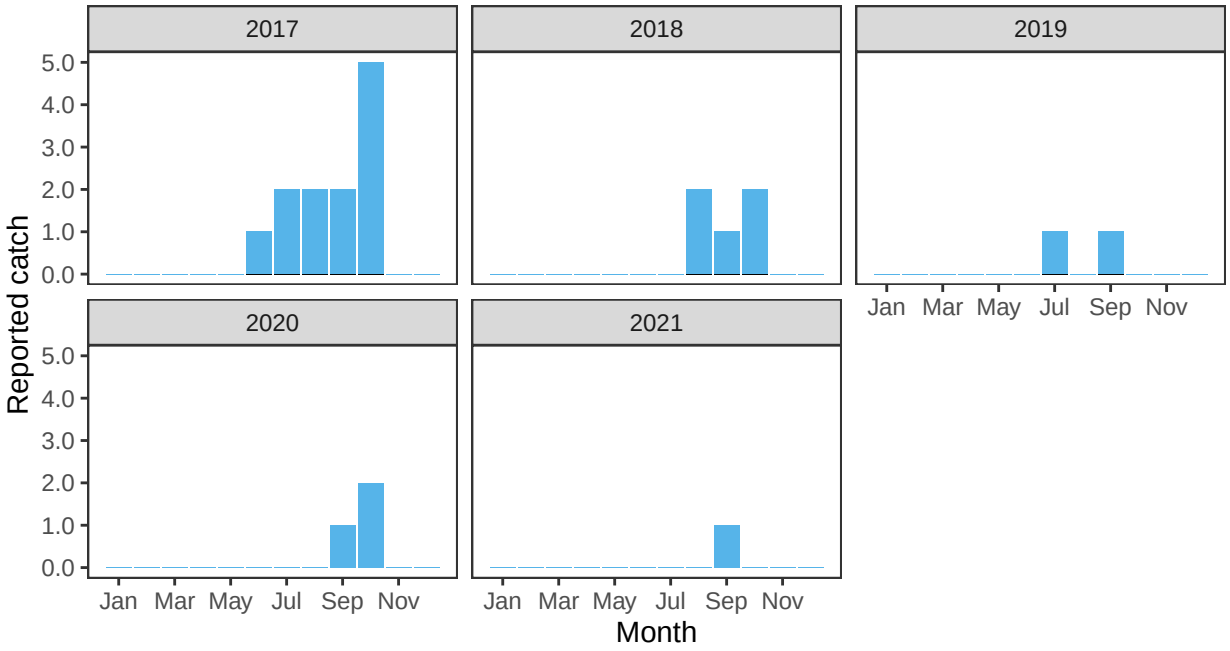
Summary Table

Eggs required (m^2)[a]	Area (m^2)[a]	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2017	2018	2019	2020	2021	Overall	
3.07	127,300	391,018	29.02	6.18	1.53	3.68	0.39	8.16	3

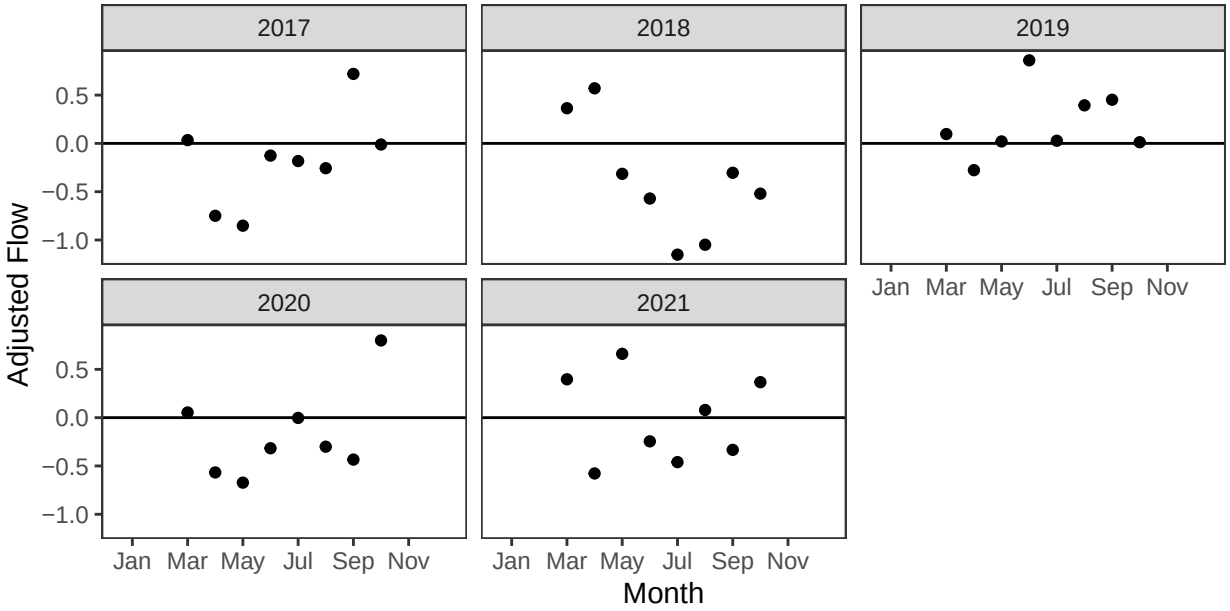
[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

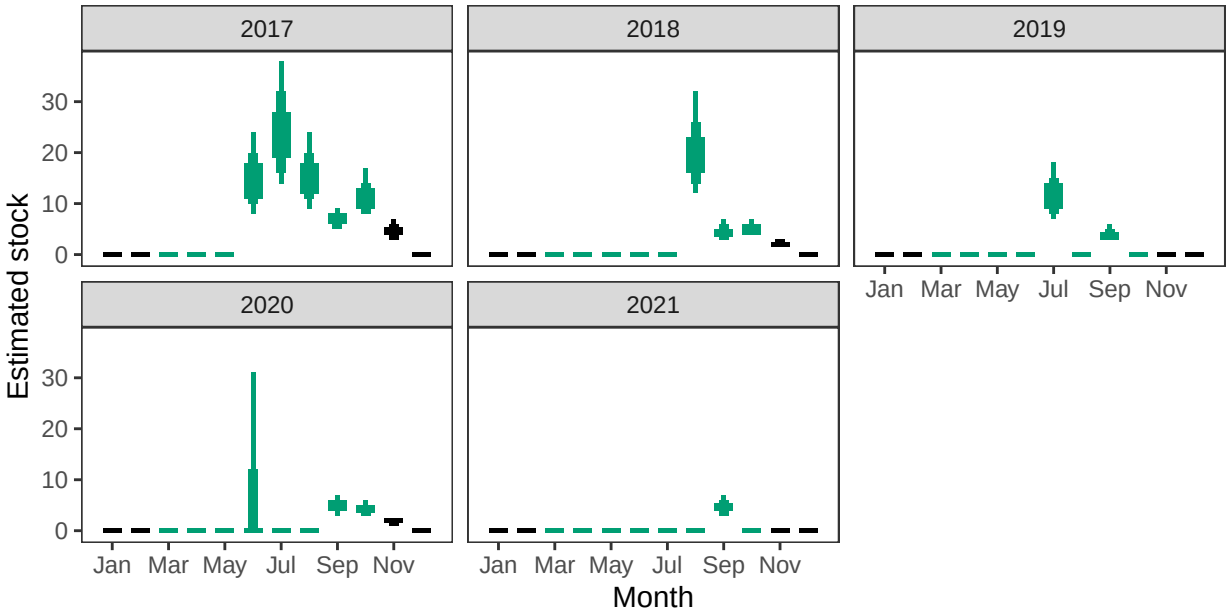
Reported Catches (black = retained, blue = released)



Monthly flow data

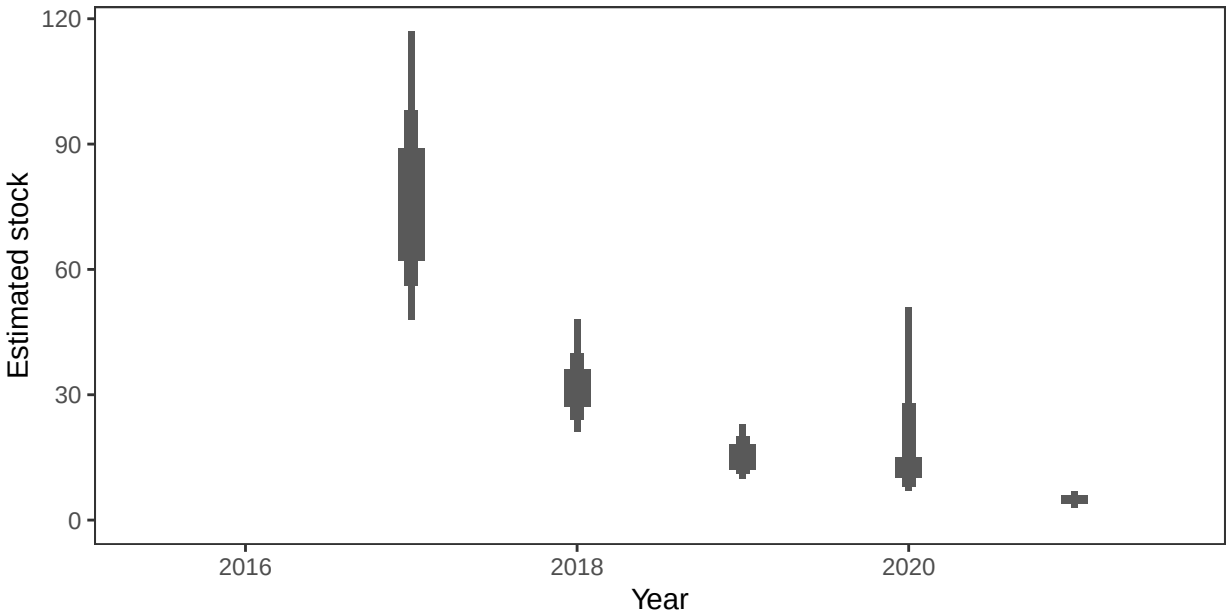


Monthly stock estimates (out of season in black)



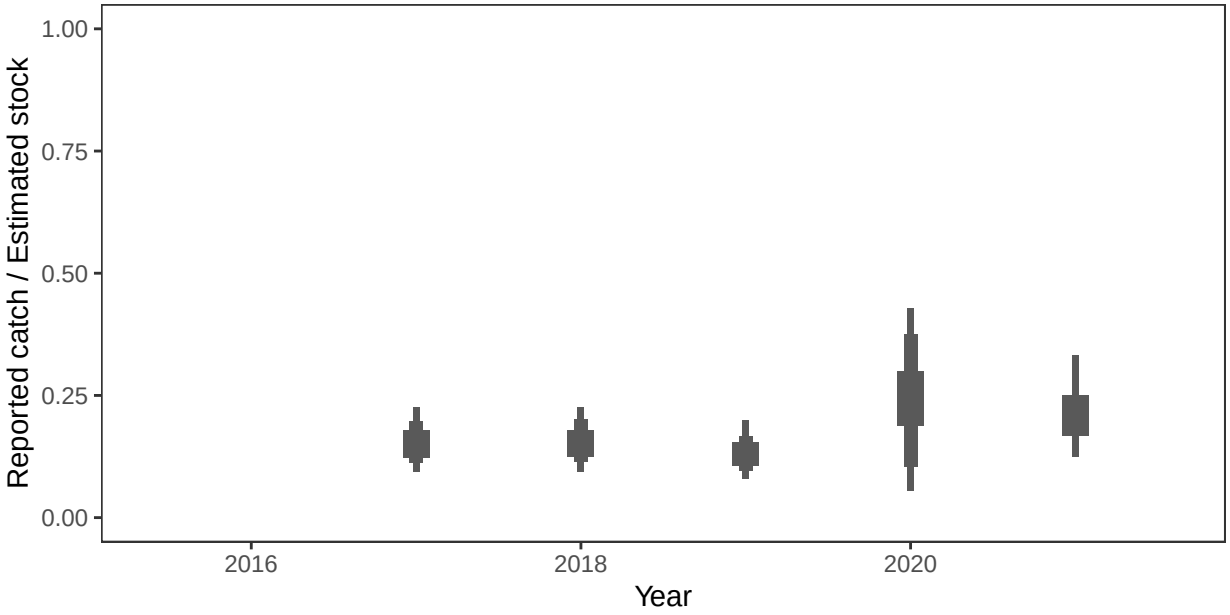
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

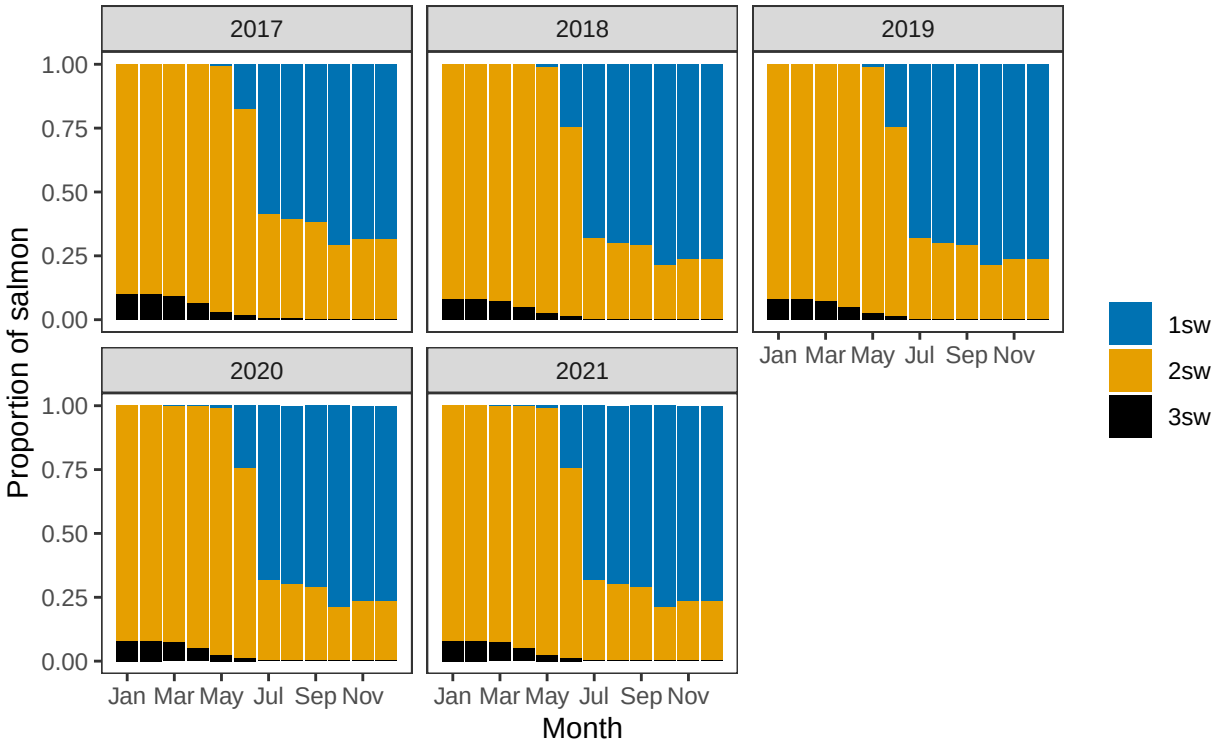
Annual catch as a proportion of stock



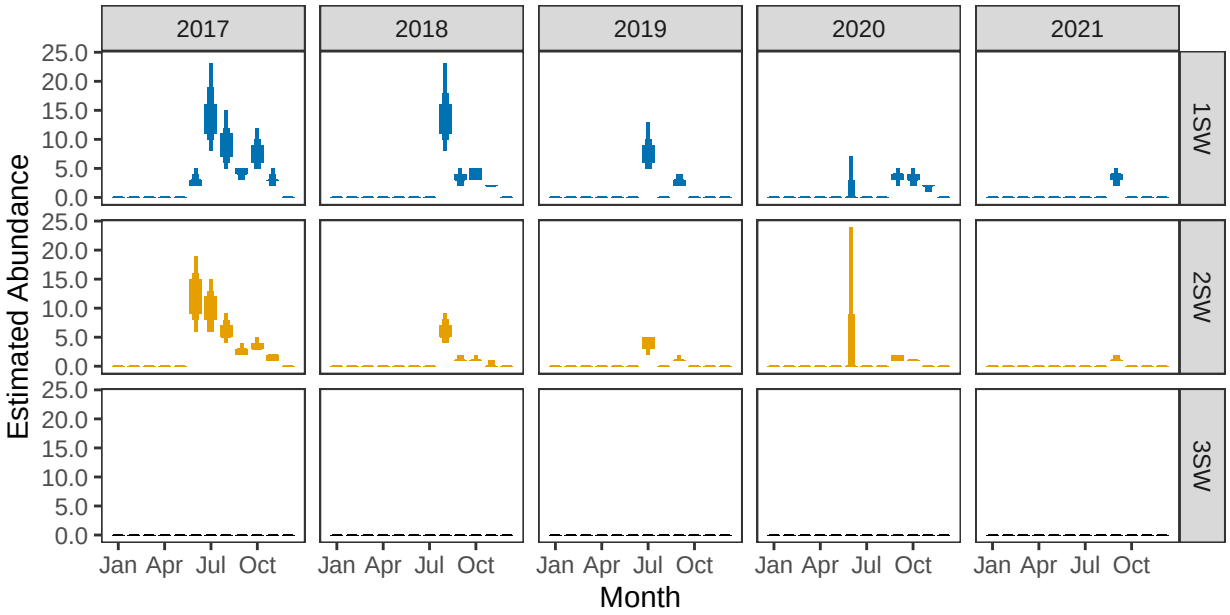
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish



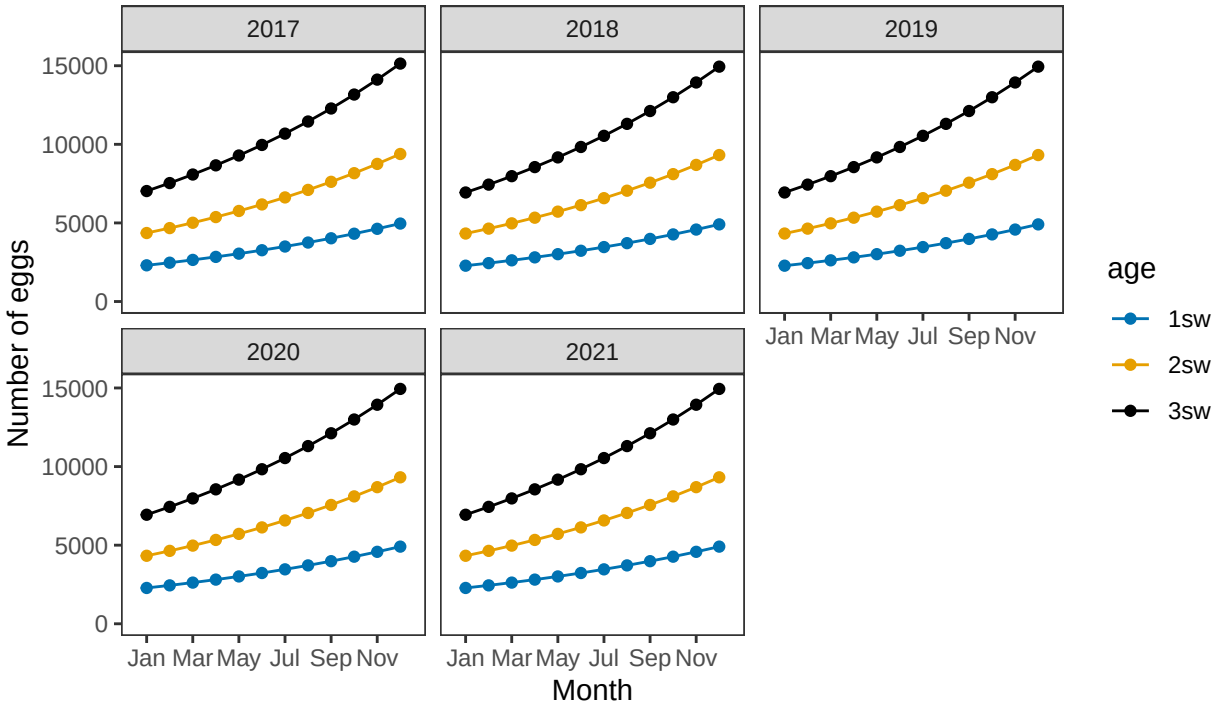
Monthly number of spawning females



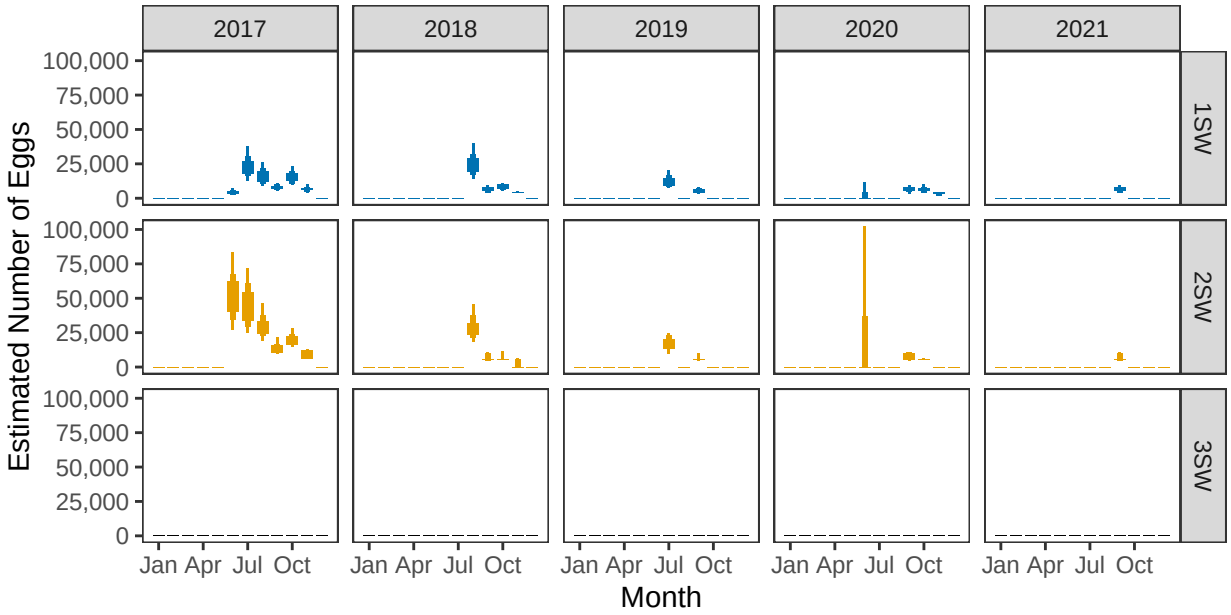
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

3. Converting Number of Spawners to Number of Eggs

Egg contents of females

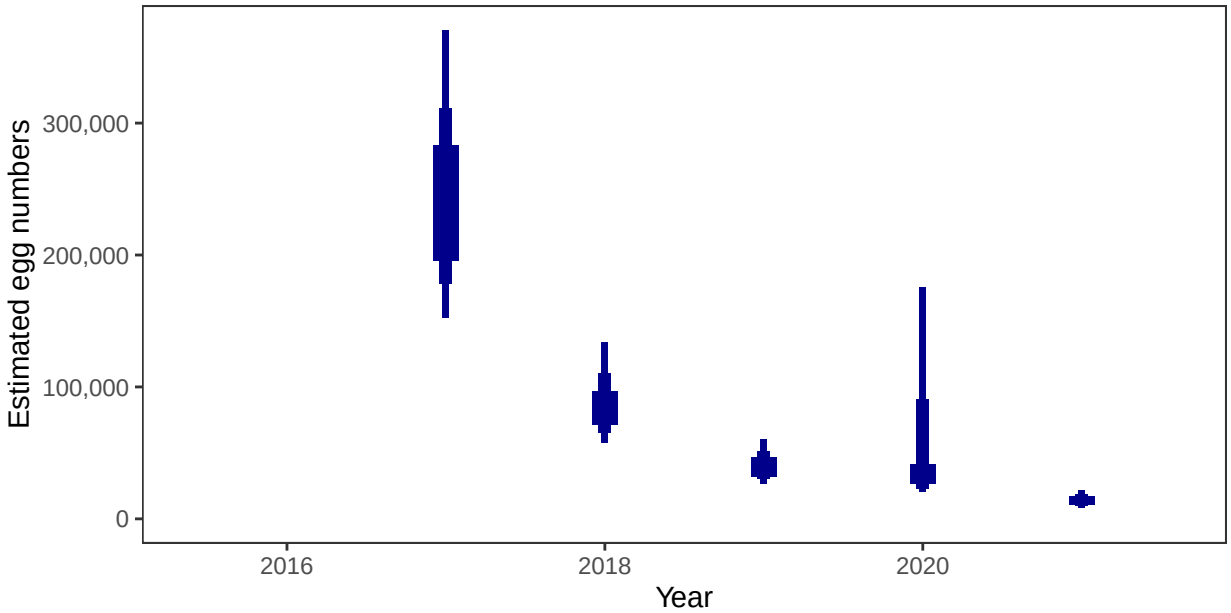


Monthly number of eggs



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Total annual egg numbers



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

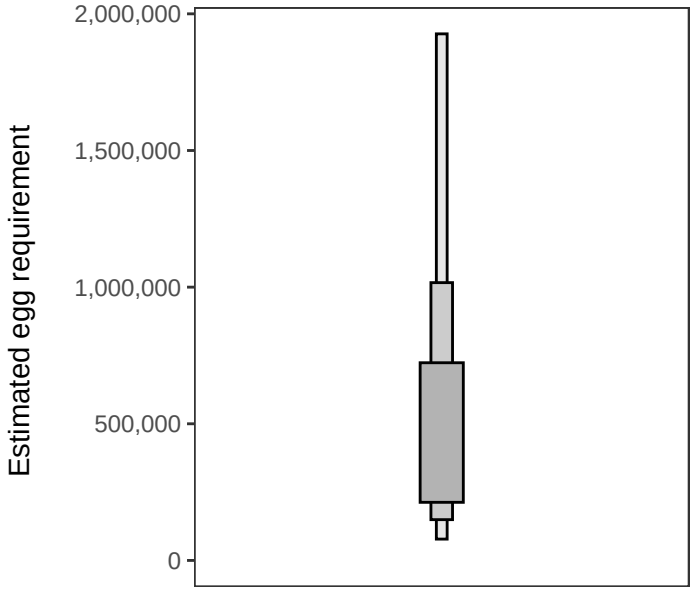
Year	Percentage above
2017	29.02
2018	6.18
2019	1.53
2020	3.68
2021	0.39

4. Egg requirement

Areas of salmon habitat in square meters

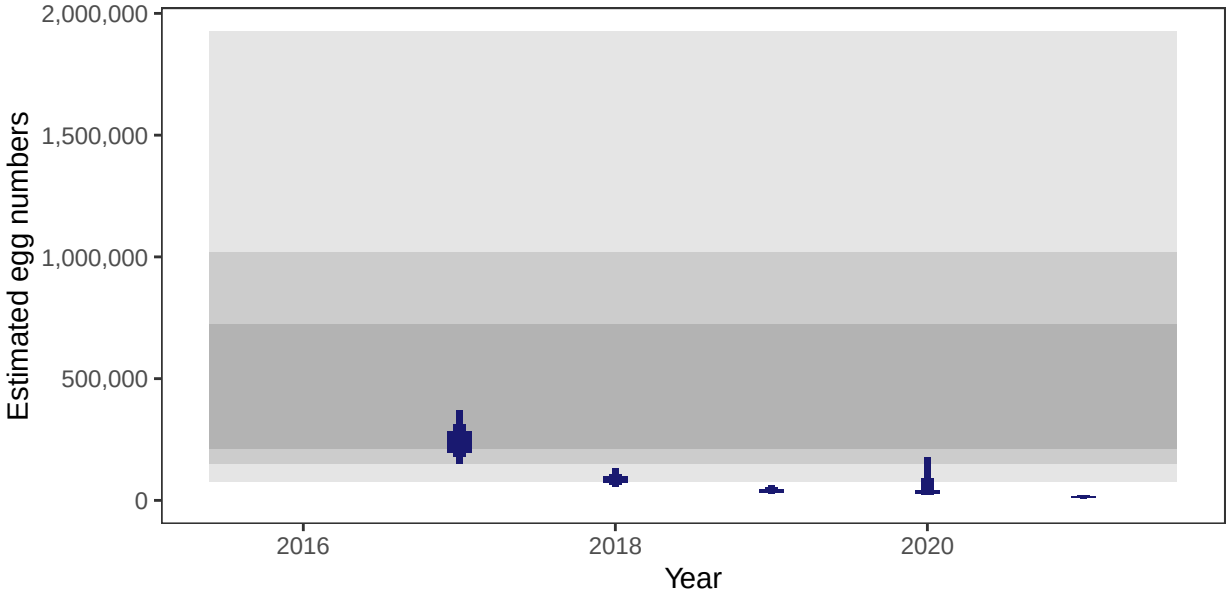
There is an estimated 141,768 square meters of known salmon habitat in the Cowie Water and a further 2,859 square meters where salmon may be present.

Egg requirement



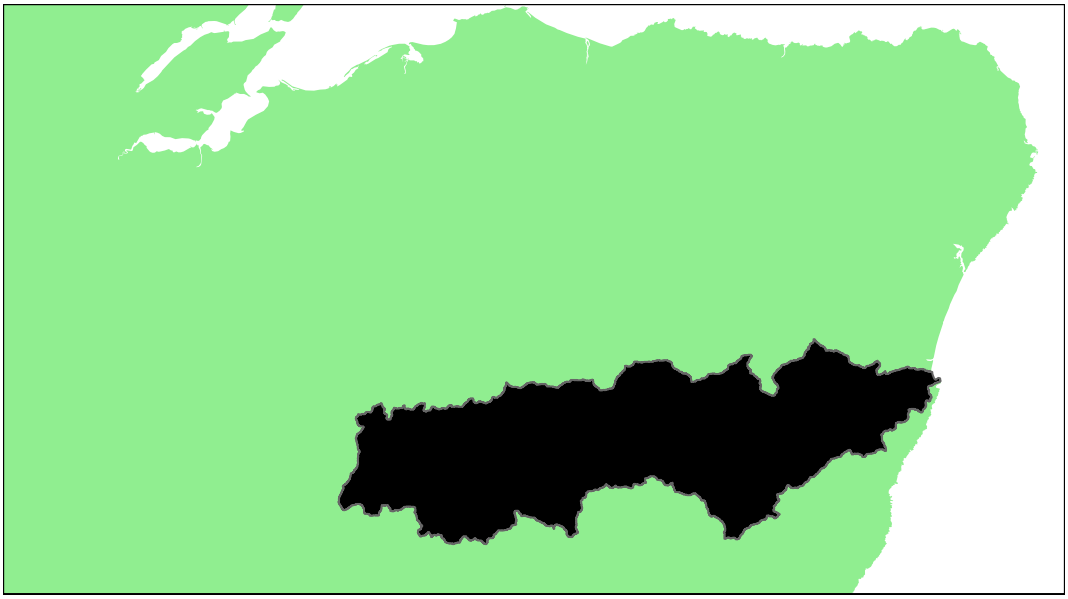
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)

River Dee SAC: Grade 1



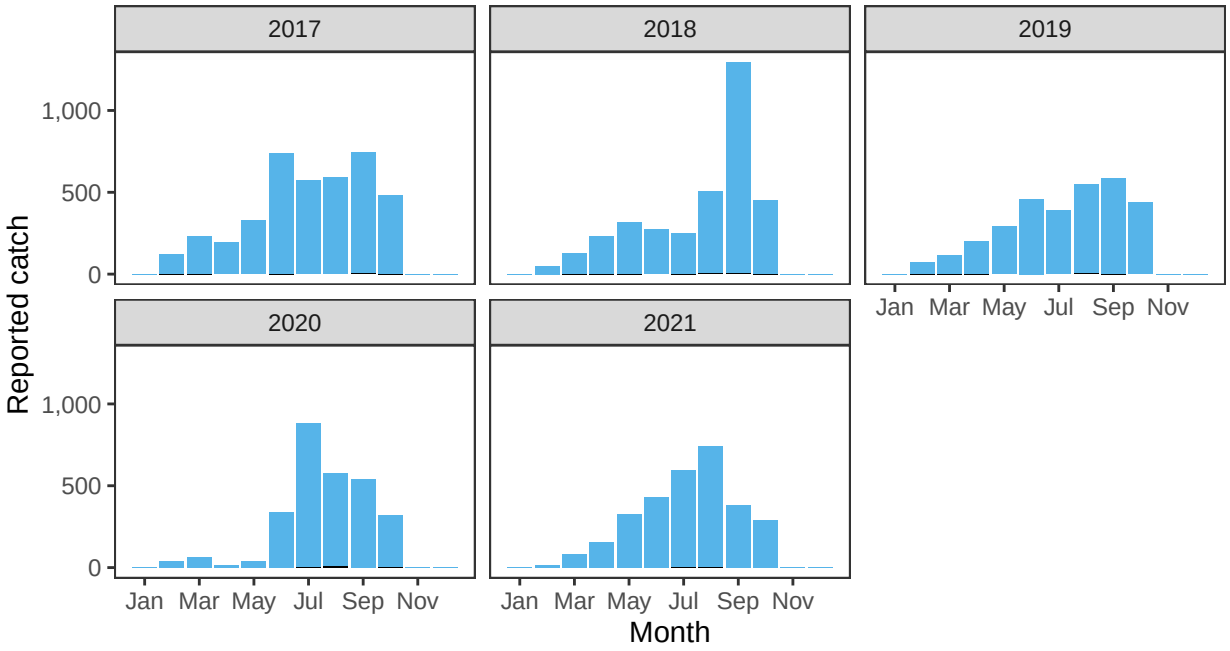
Summary Table

Eggs required (m^2)[a]	Area (m^2)[a]	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2017	2018	2019	2020	2021	Overall	
3.05	9,261,200	28,215,587	92.86	89.65	82.54	88.61	86.78	88.09	1

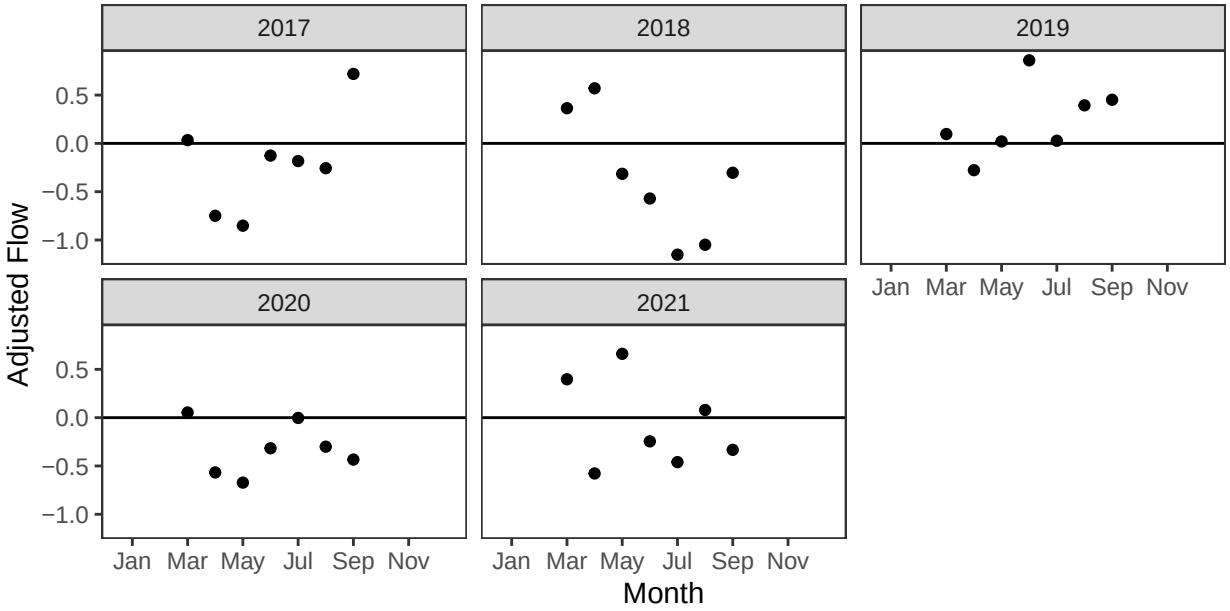
[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

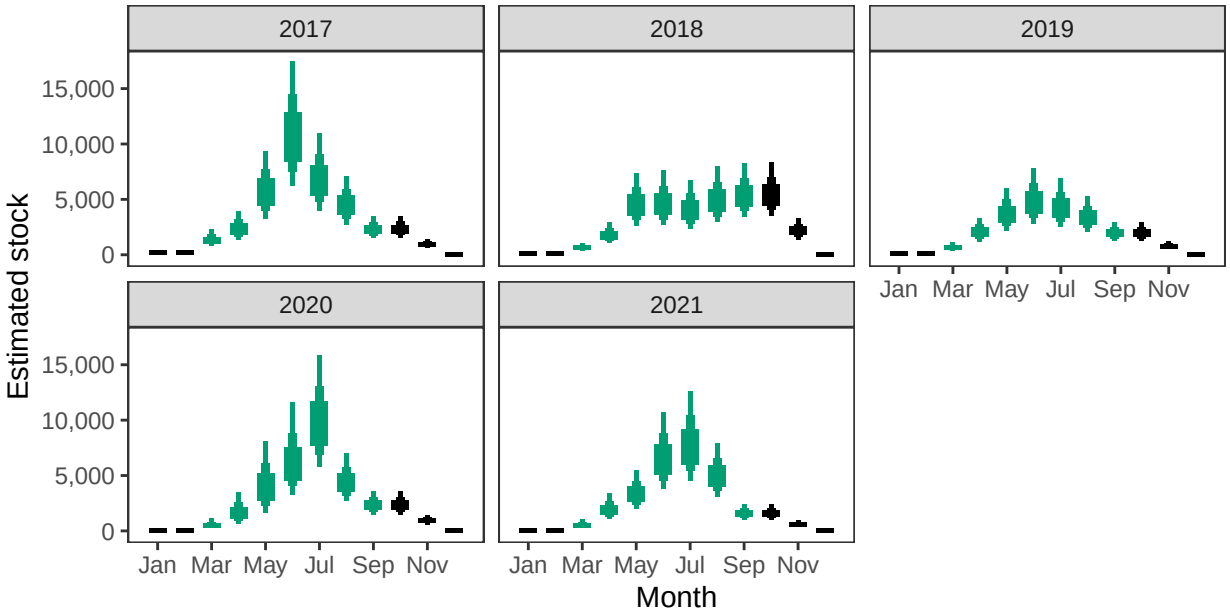
Reported Catches (black = retained, blue = released)



Monthly flow data

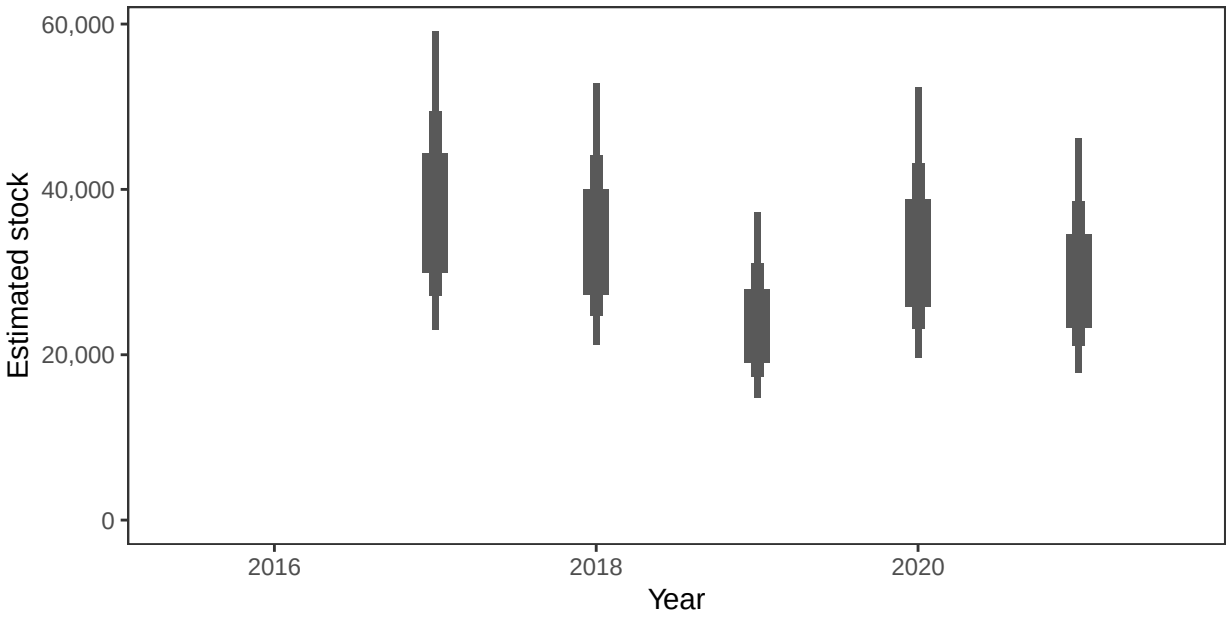


Monthly stock estimates (out of season in black)



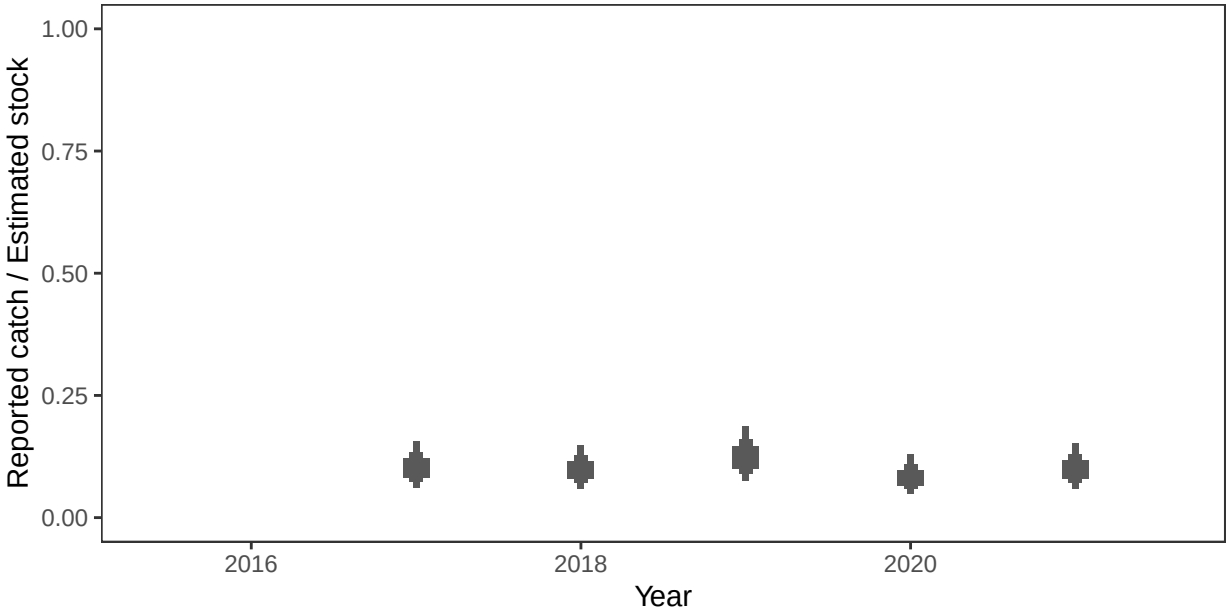
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

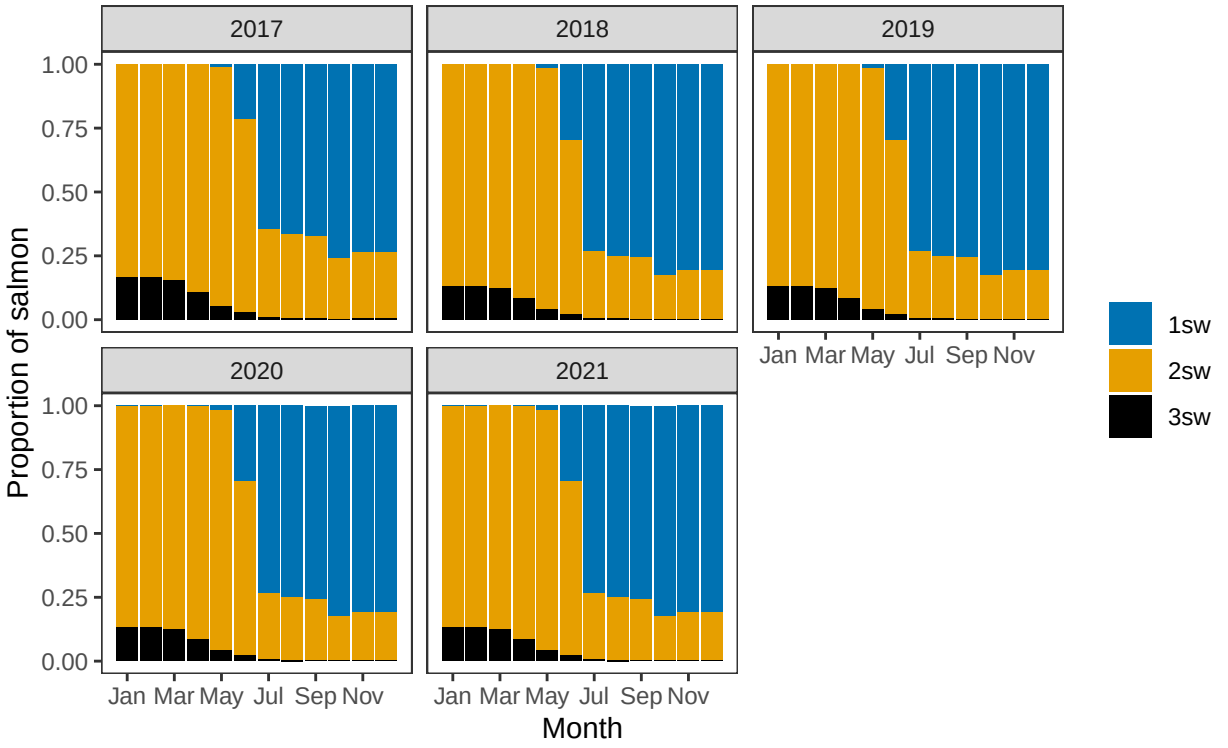
Annual catch as a proportion of stock



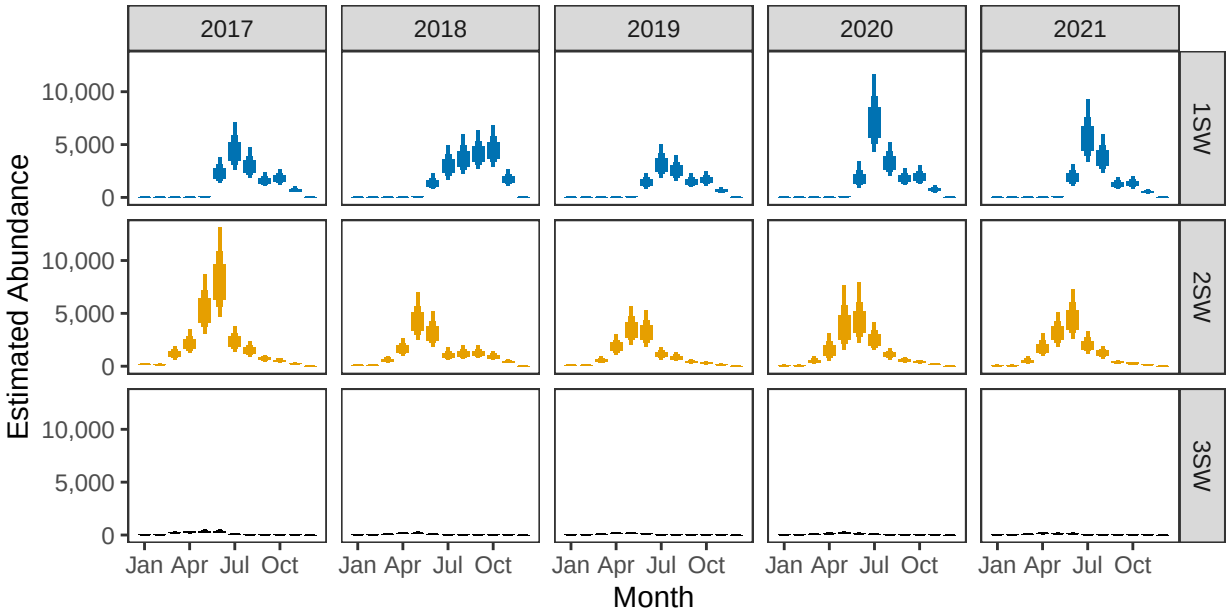
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish



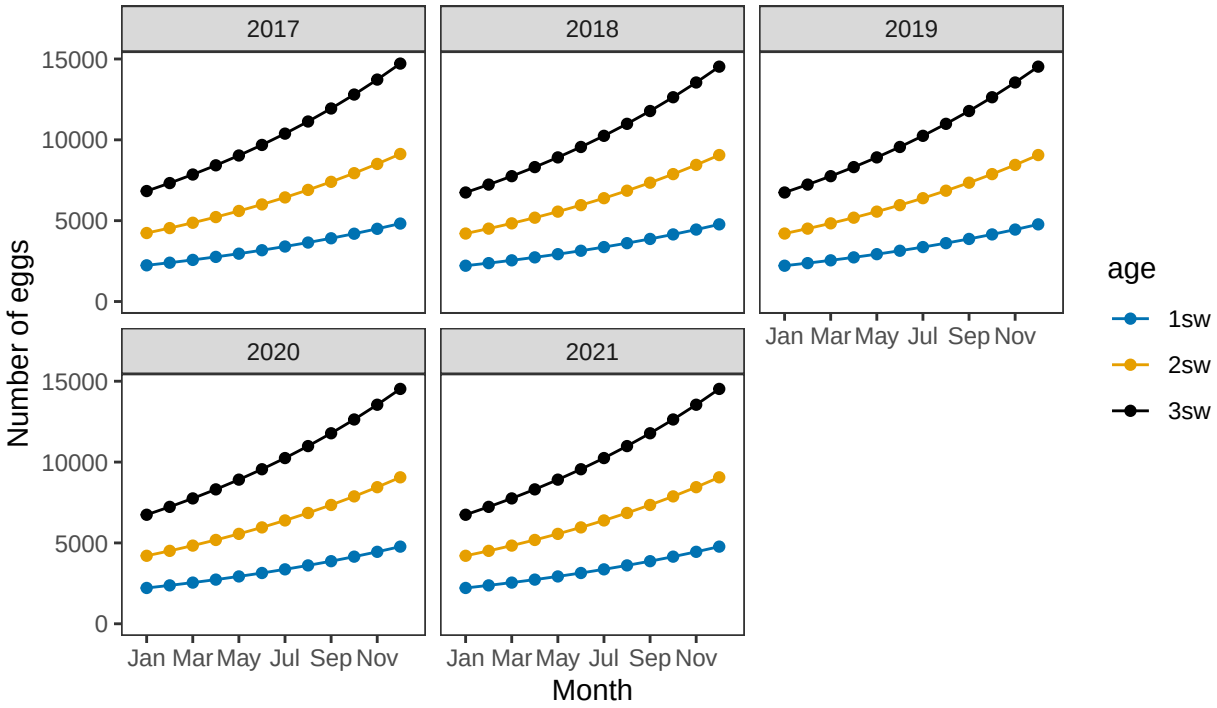
Monthly number of spawning females



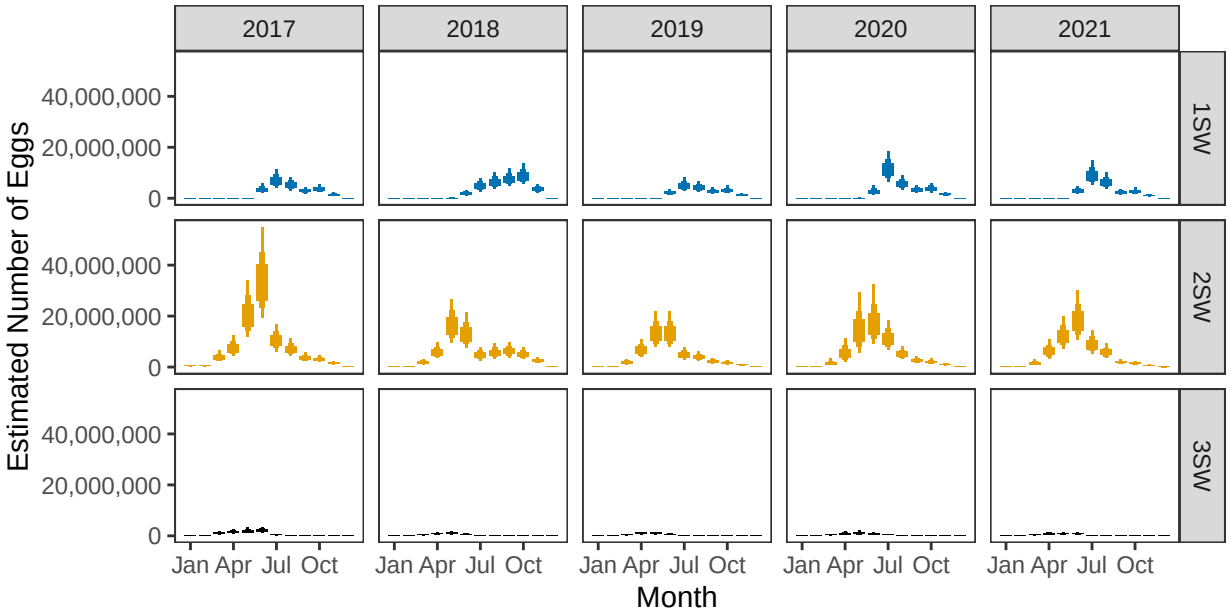
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

3. Converting Number of Spawners to Number of Eggs

Egg contents of females

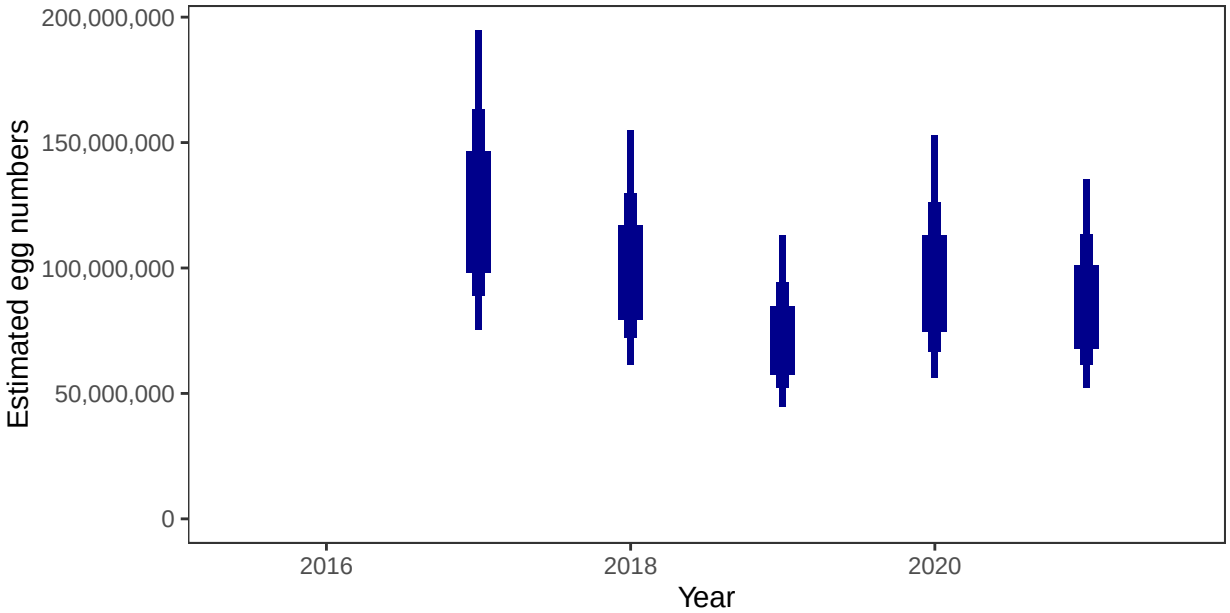


Monthly number of eggs



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Total annual egg numbers



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

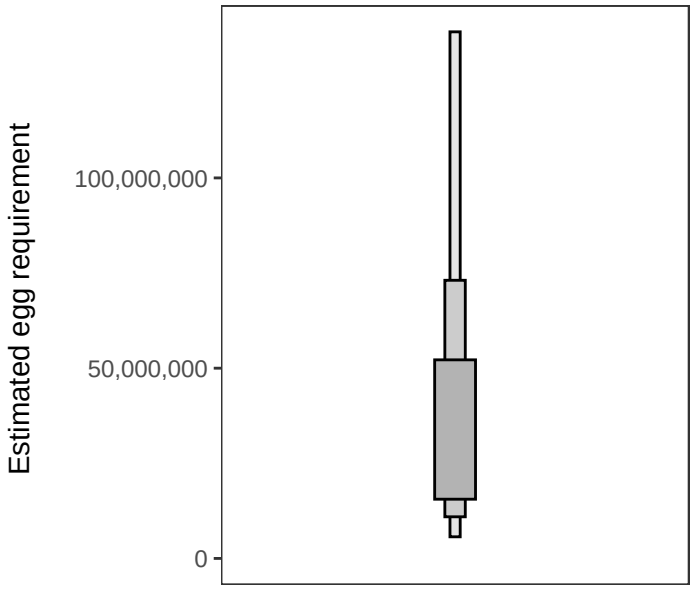
Year	Percentage above
2017	92.86
2018	89.65
2019	82.54
2020	88.61
2021	86.78

4. Egg requirement

Areas of salmon habitat in square meters

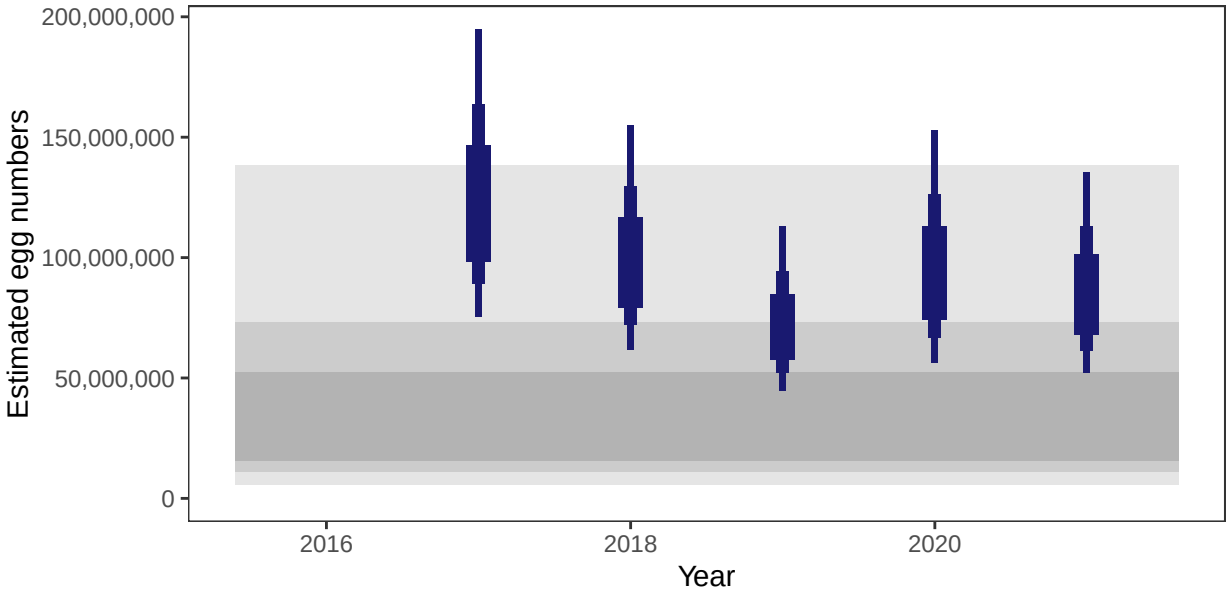
There is an estimated 10,214,141 square meters of known salmon habitat in the River Dee SAC and a further 309,956 square meters where salmon may be present.

Egg requirement



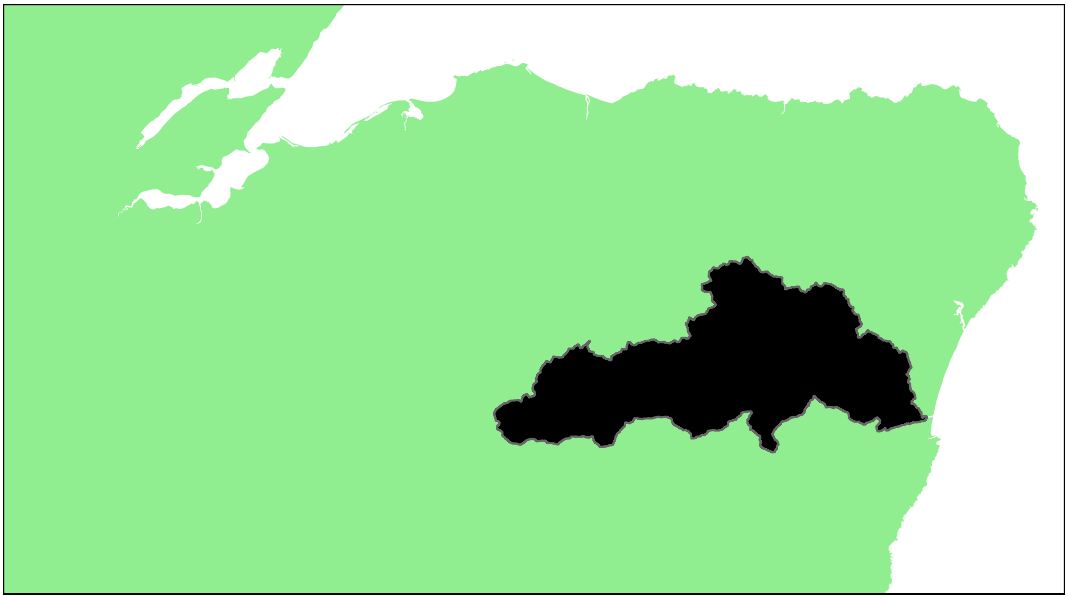
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)

River Don: Grade 3



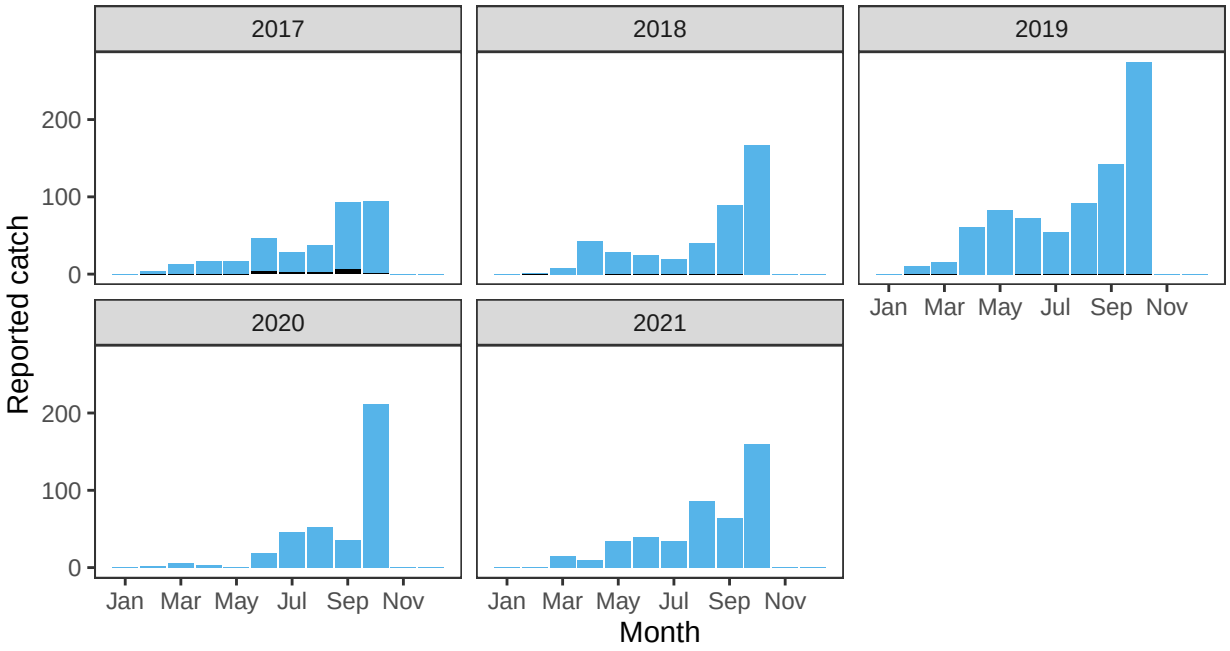
Summary Table

Eggs required (m^2)[a]	Area (m^2)[a]	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2017	2018	2019	2020	2021	Overall	
2.32	4,112,800	9,560,190	40.21	44.12	70.45	54.44	47.55	51.35	3

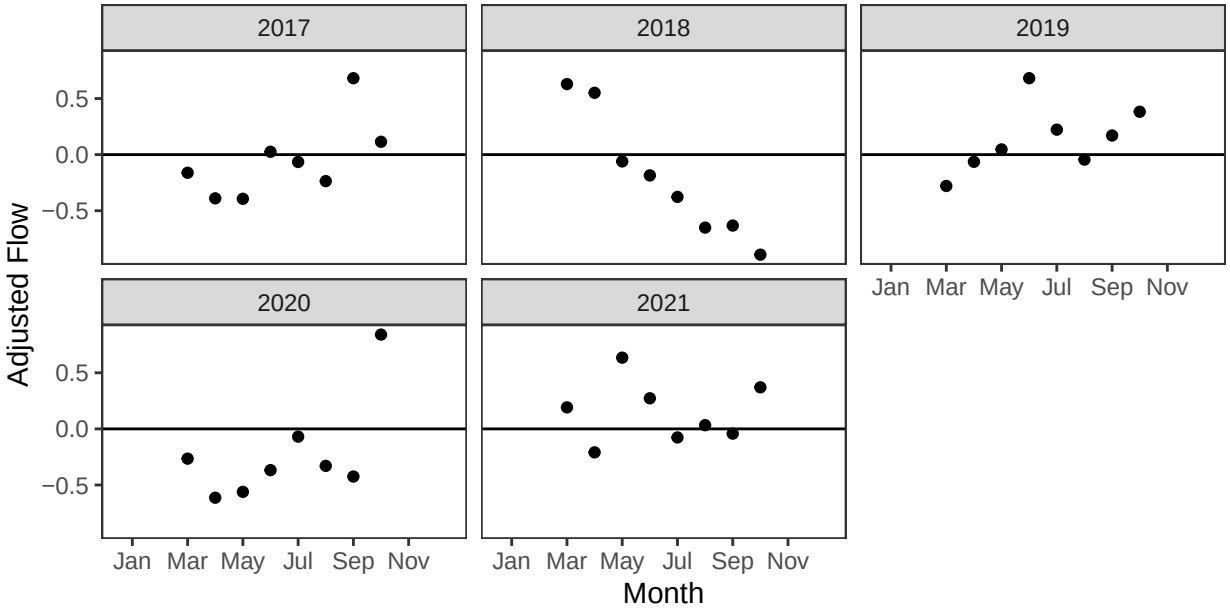
[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

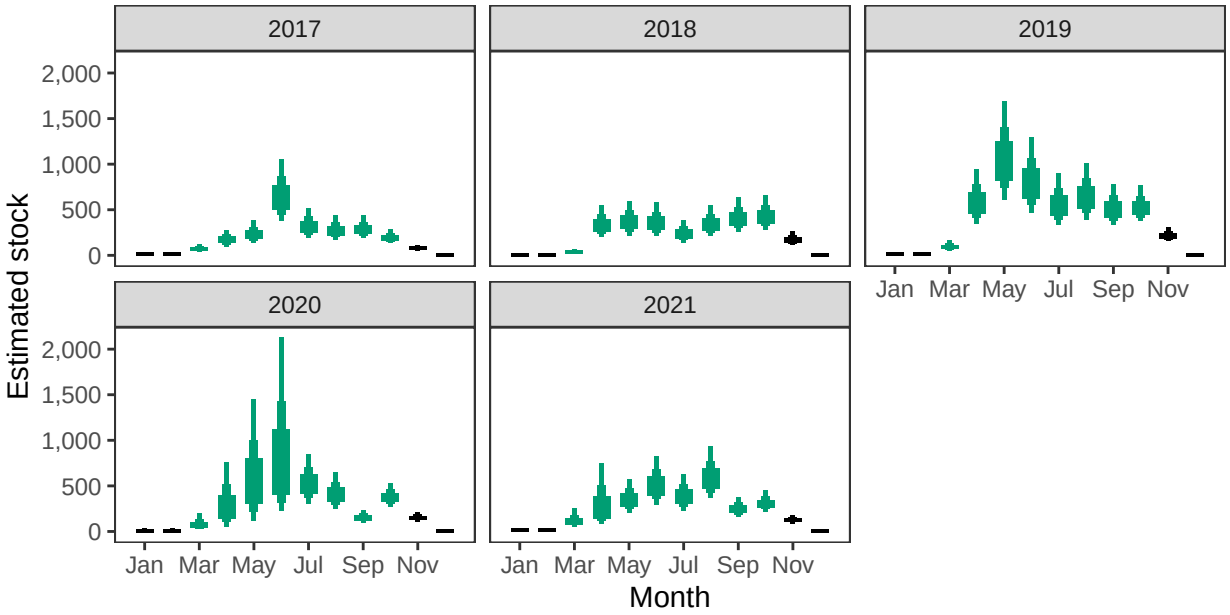
Reported Catches (black = retained, blue = released)



Monthly flow data

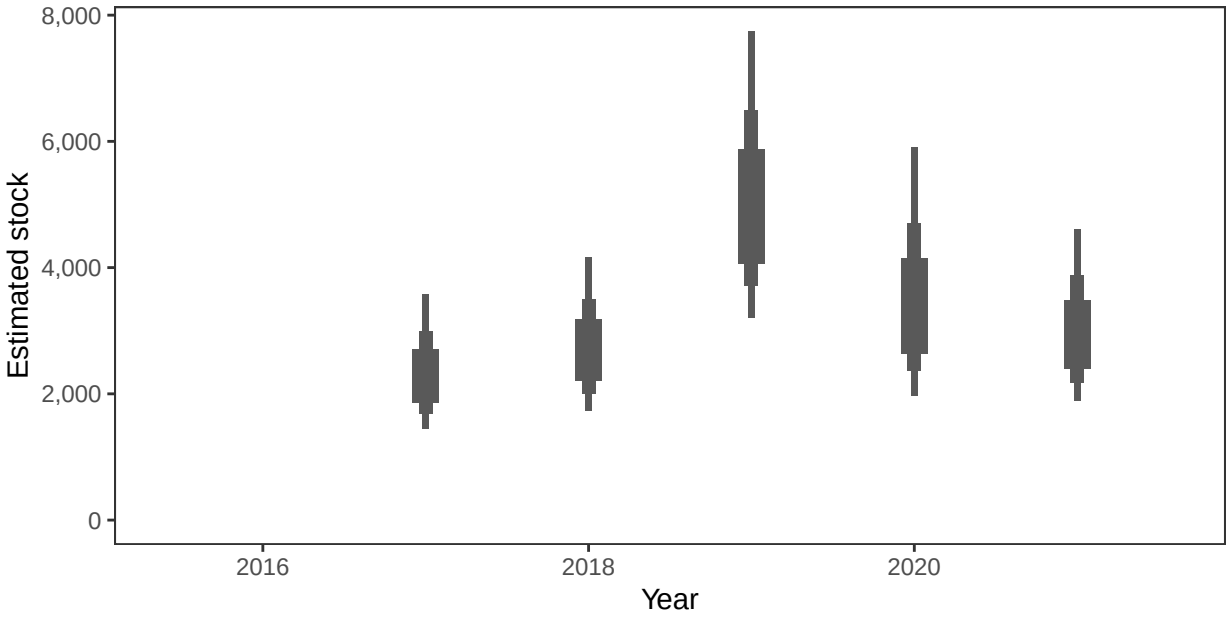


Monthly stock estimates (out of season in black)



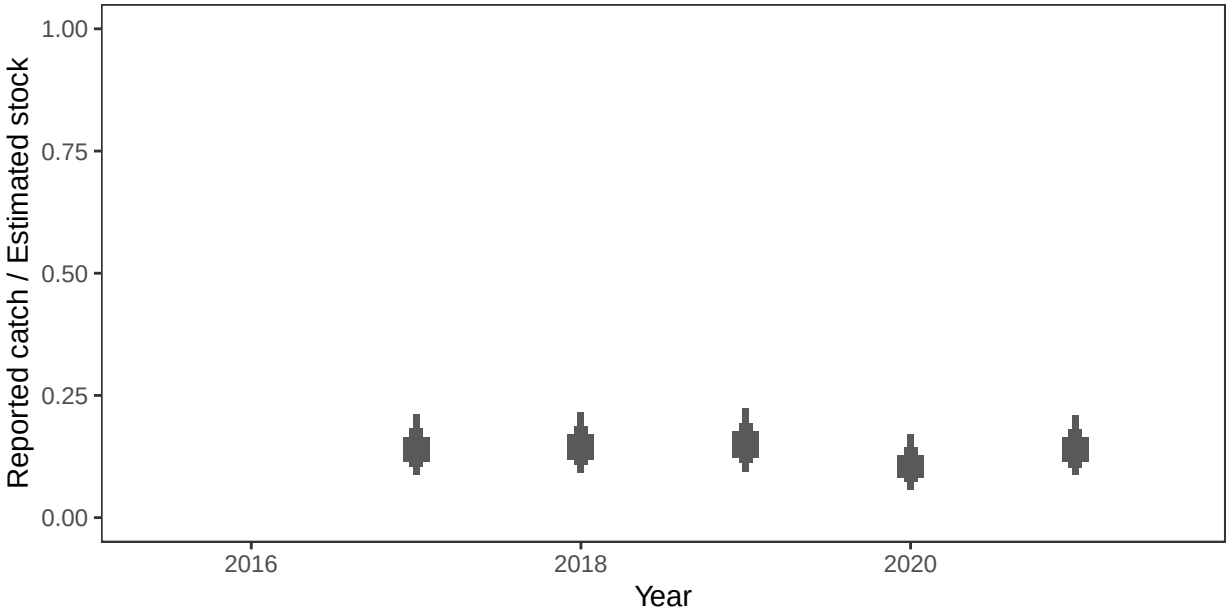
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

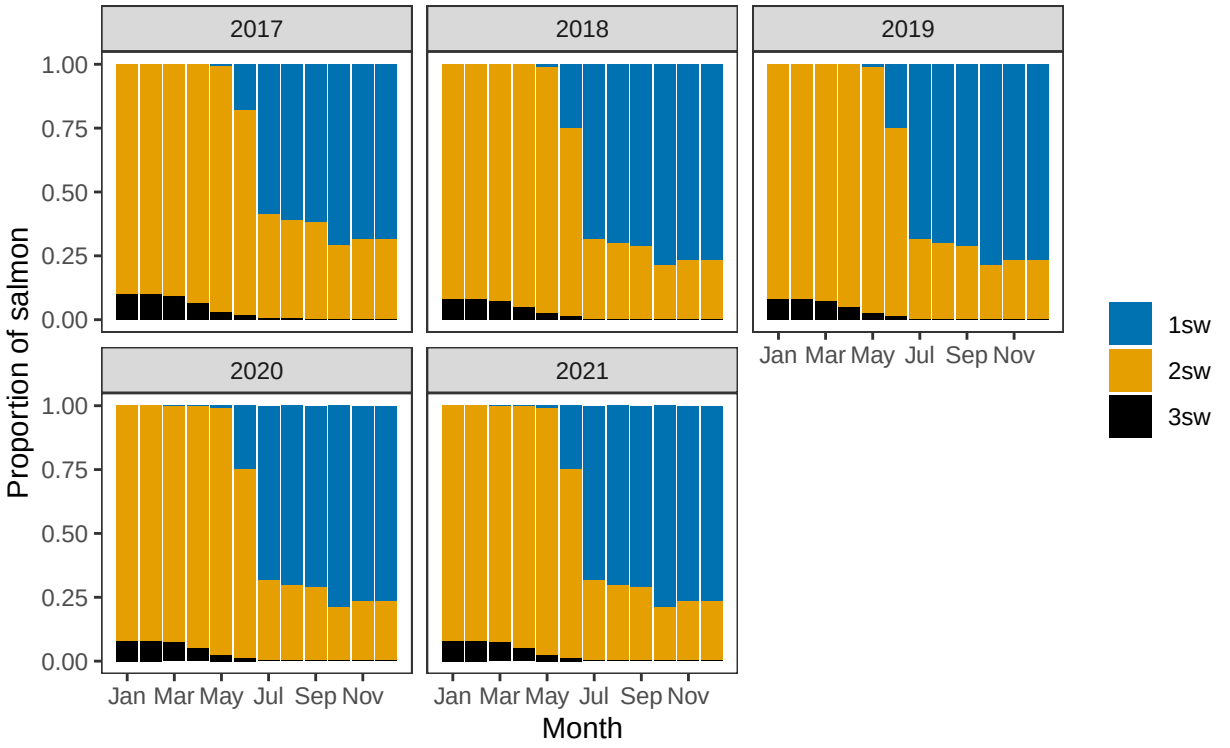
Annual catch as a proportion of stock



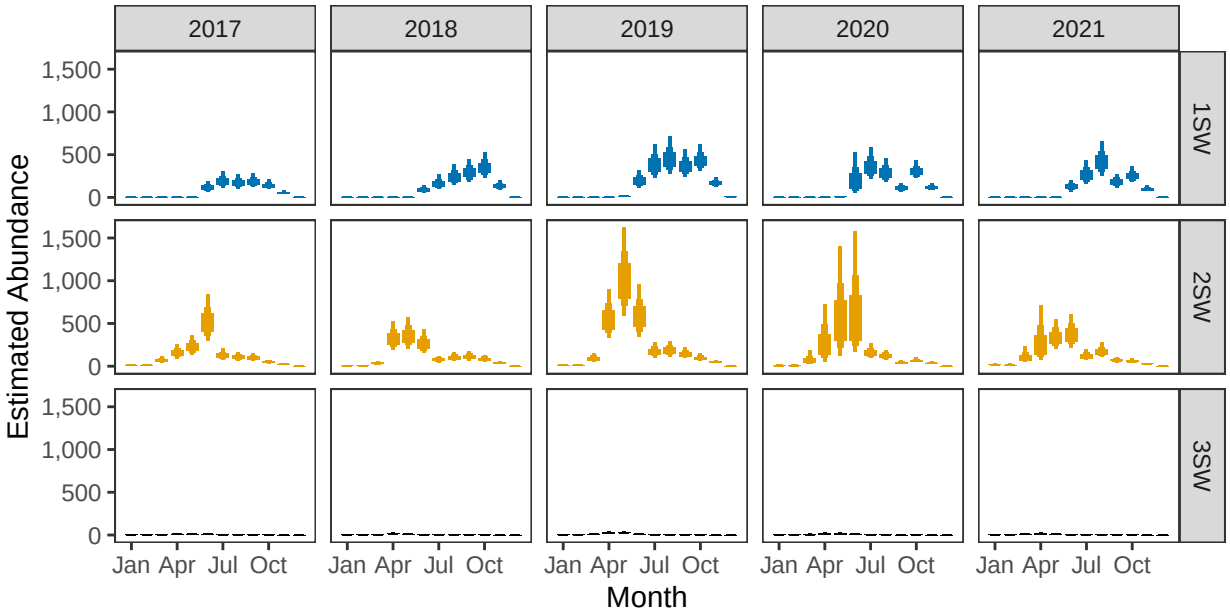
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish



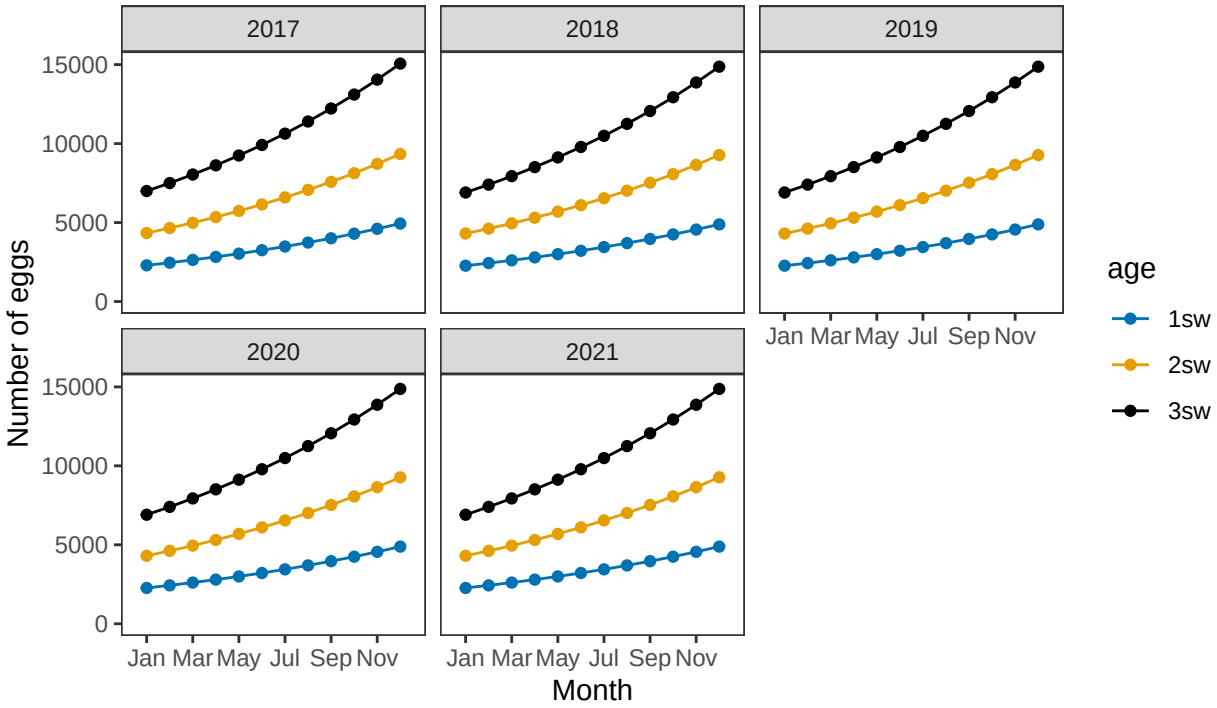
Monthly number of spawning females



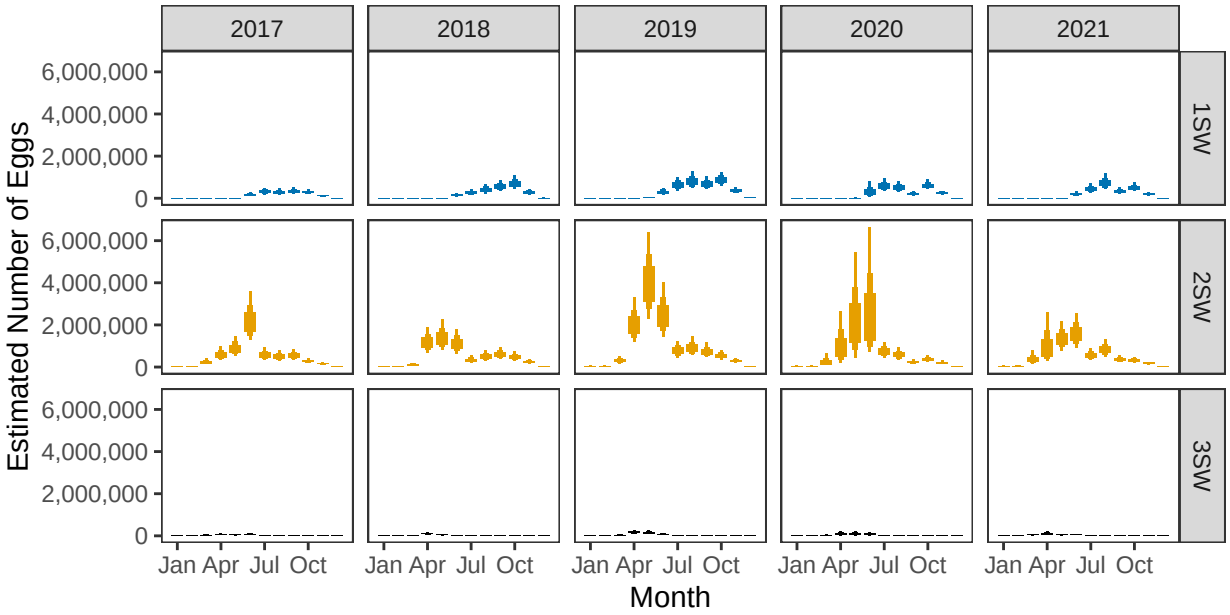
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

3. Converting Number of Spawners to Number of Eggs

Egg contents of females

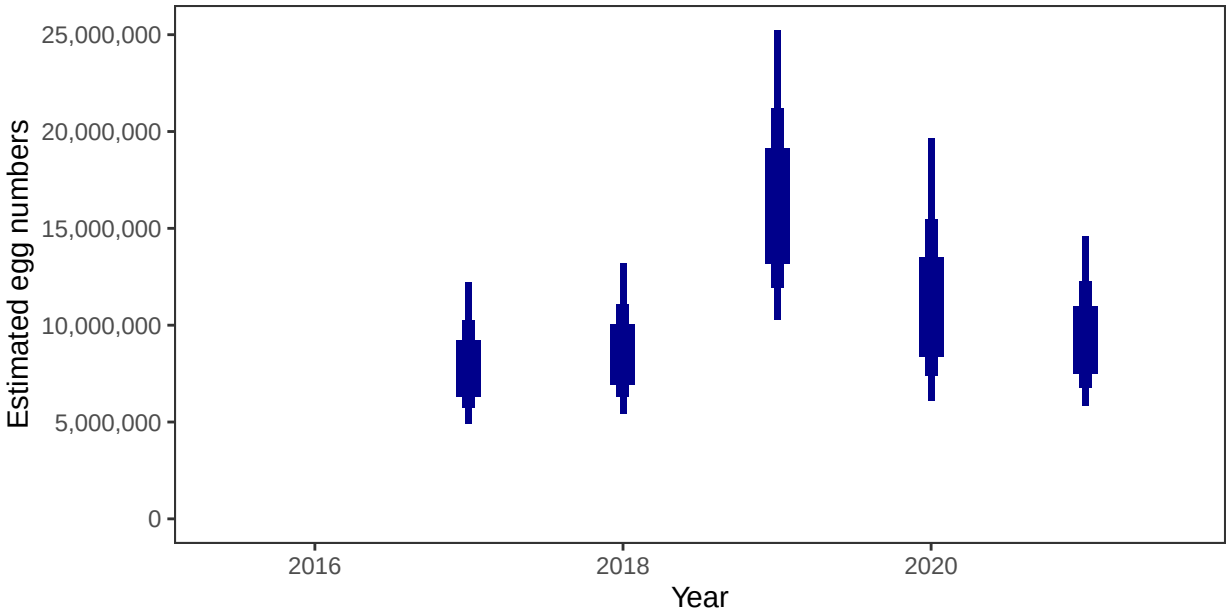


Monthly number of eggs



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Total annual egg numbers



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

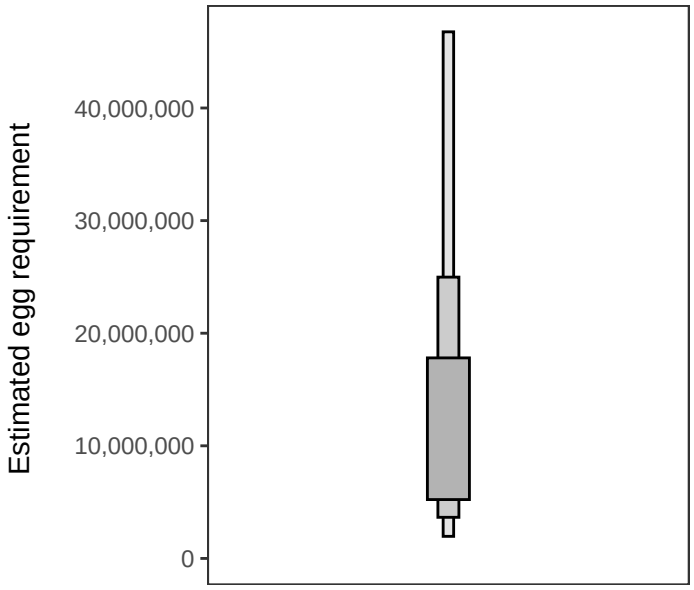
Year	Percentage above
2017	40.21
2018	44.12
2019	70.45
2020	54.44
2021	47.55

4. Egg requirement

Areas of salmon habitat in square meters

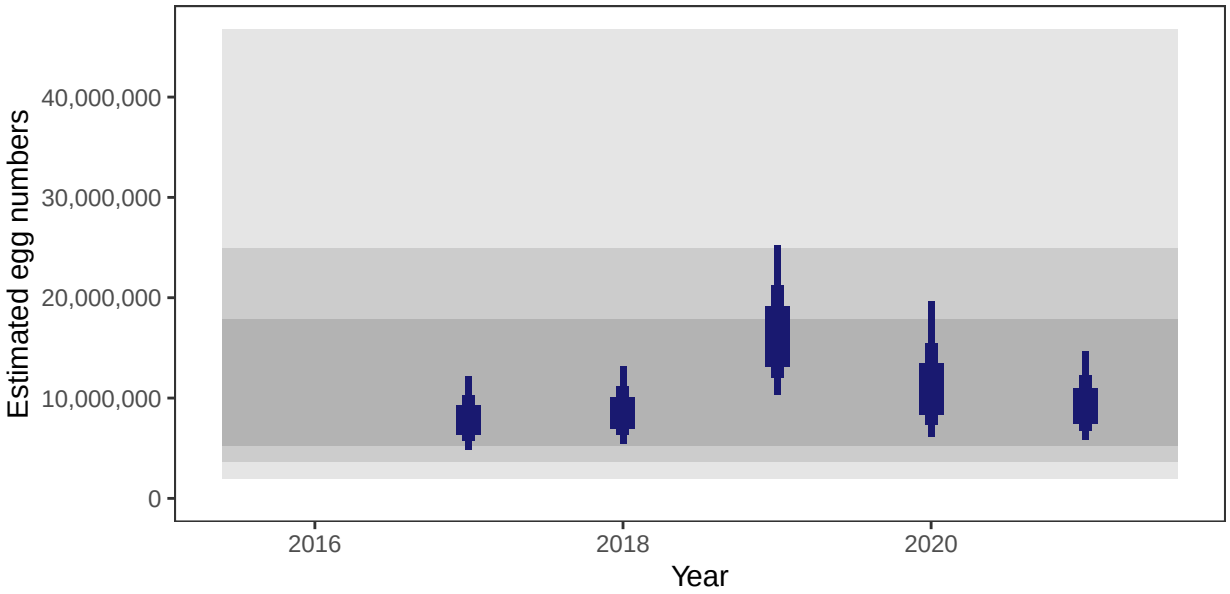
There is an estimated 4,373,313 square meters of known salmon habitat in the River Don and a further 300,299 square meters where salmon may be present.

Egg requirement



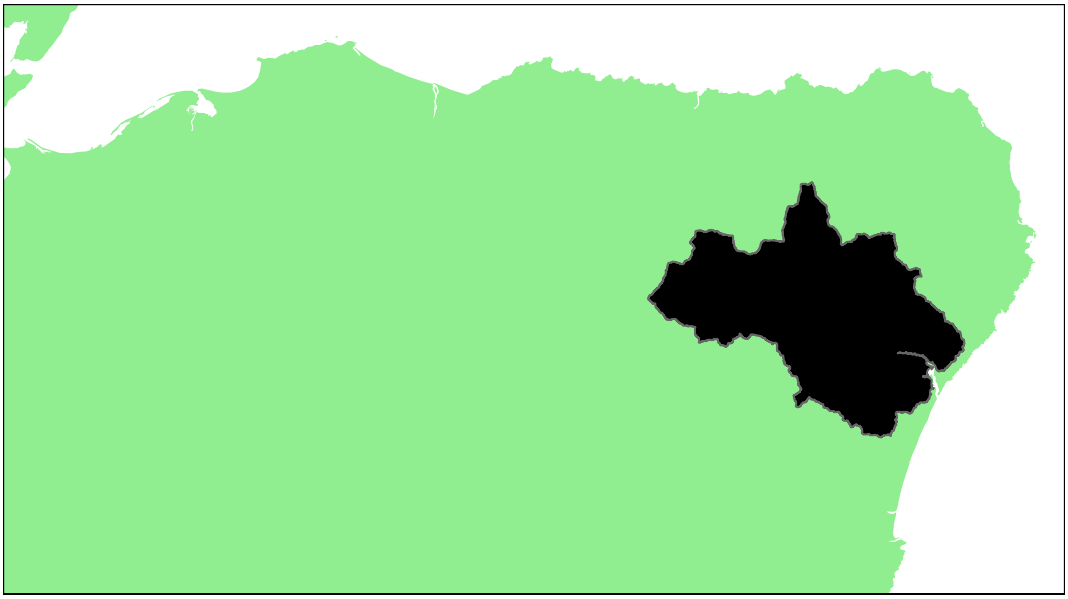
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)

River Ythan: Grade 3



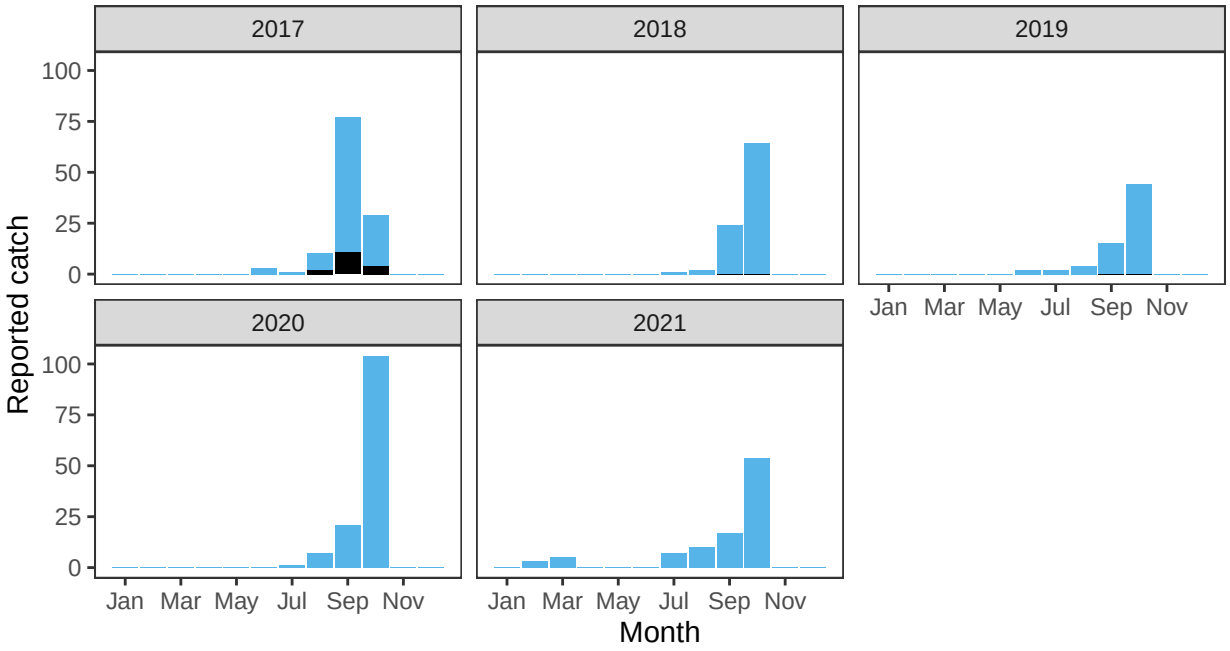
Summary Table

Eggs required (m^2)[a]	Area (m^2)[a]	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2017	2018	2019	2020	2021	Overall	
2.45	585,100	1,430,731	44.41	38.16	23.15	46.61	44.68	39.4	3

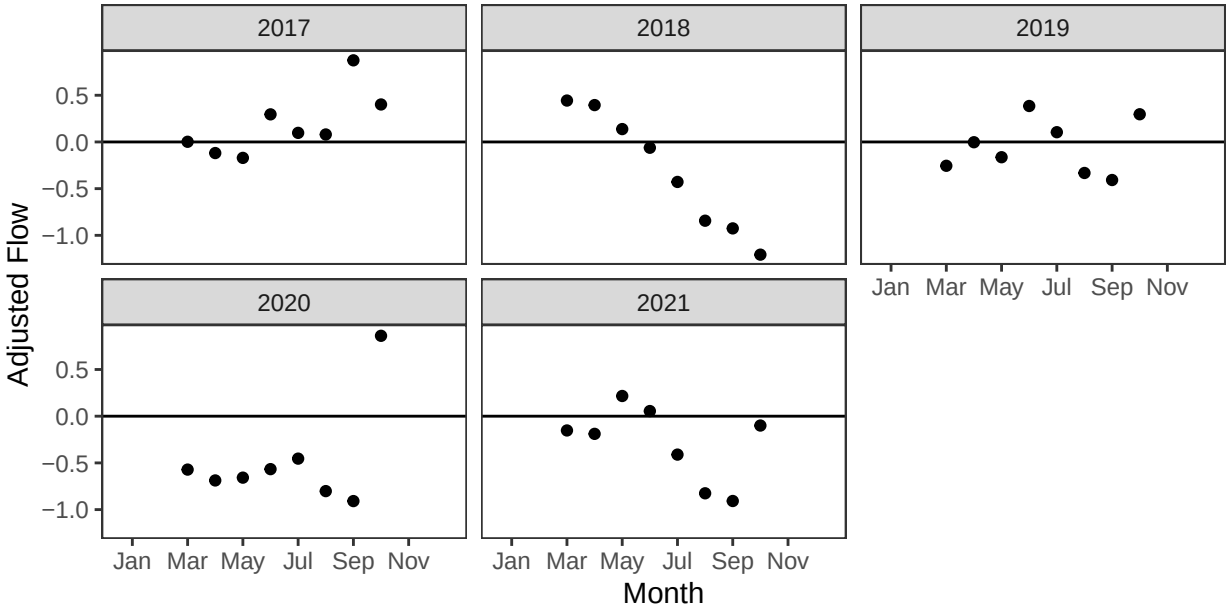
[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

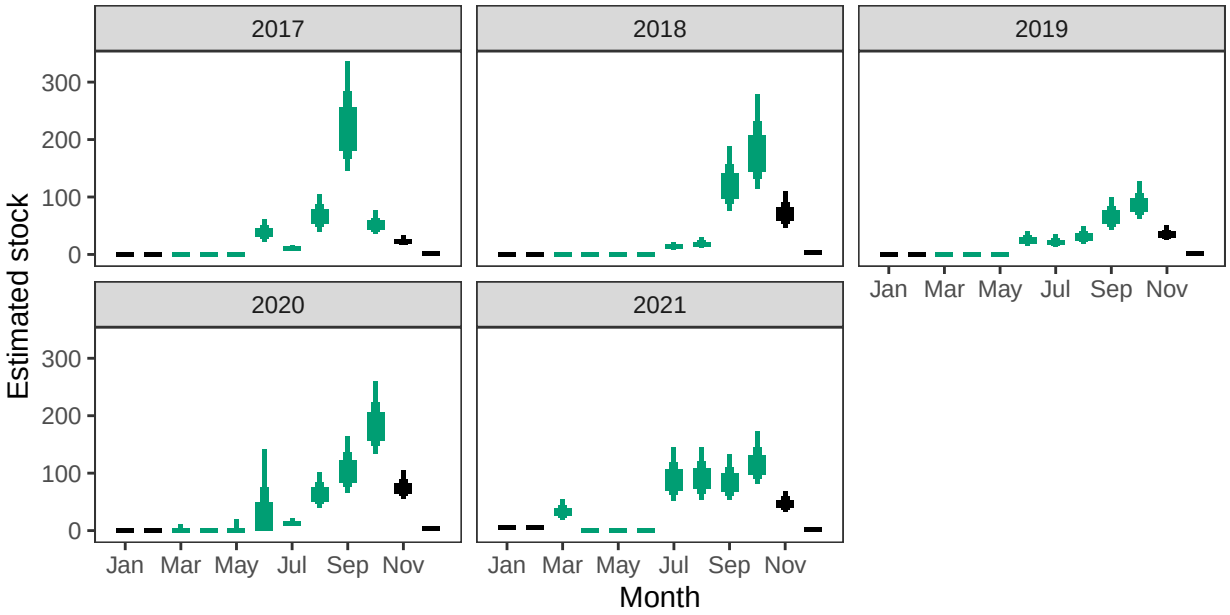
Reported Catches (black = retained, blue = released)



Monthly flow data

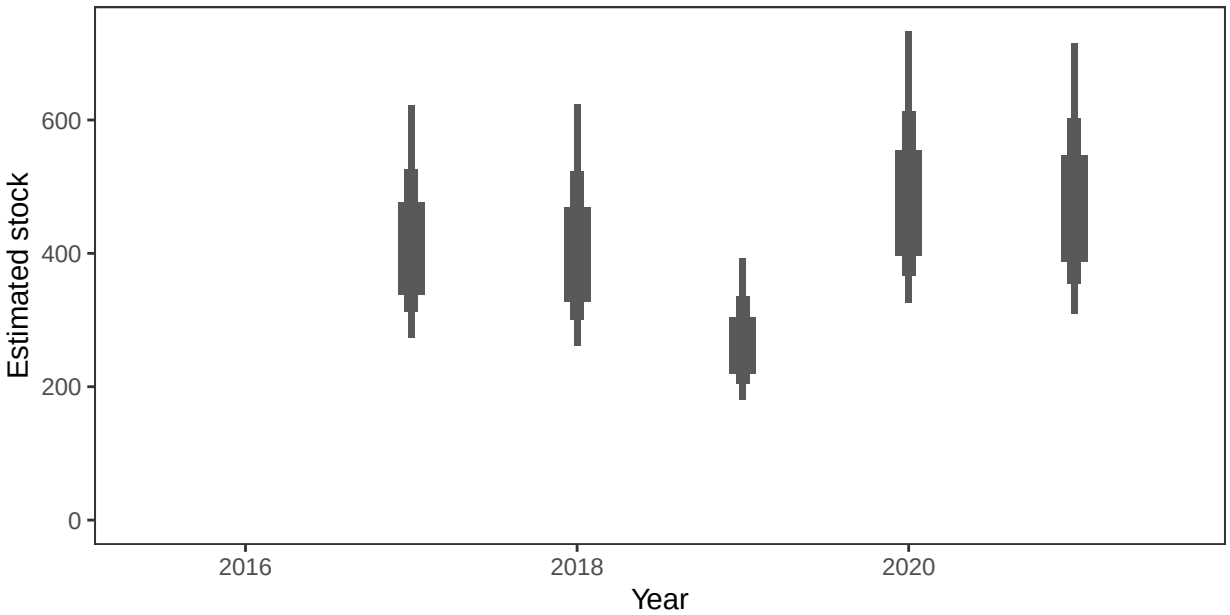


Monthly stock estimates (out of season in black)



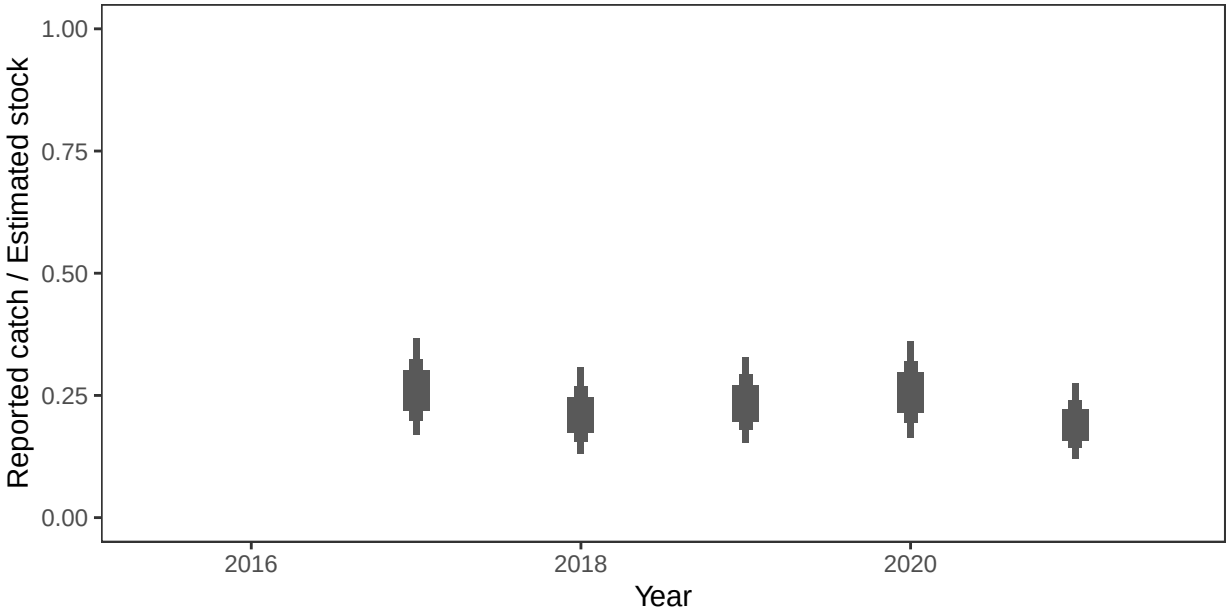
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

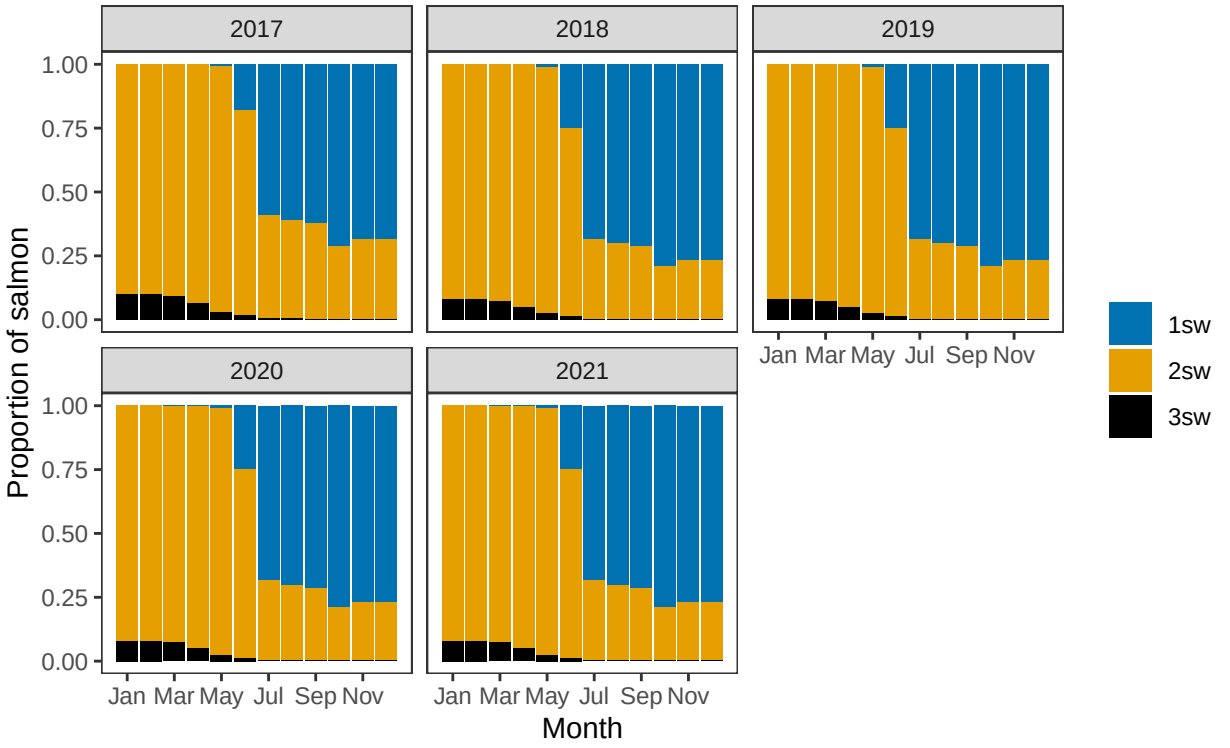
Annual catch as a proportion of stock



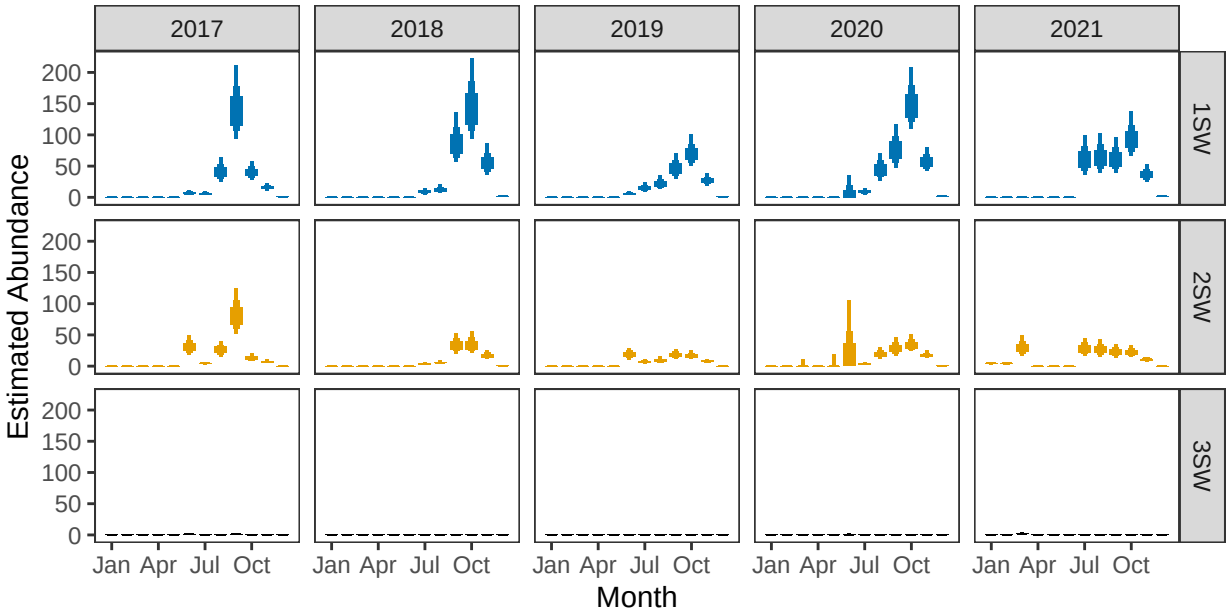
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish



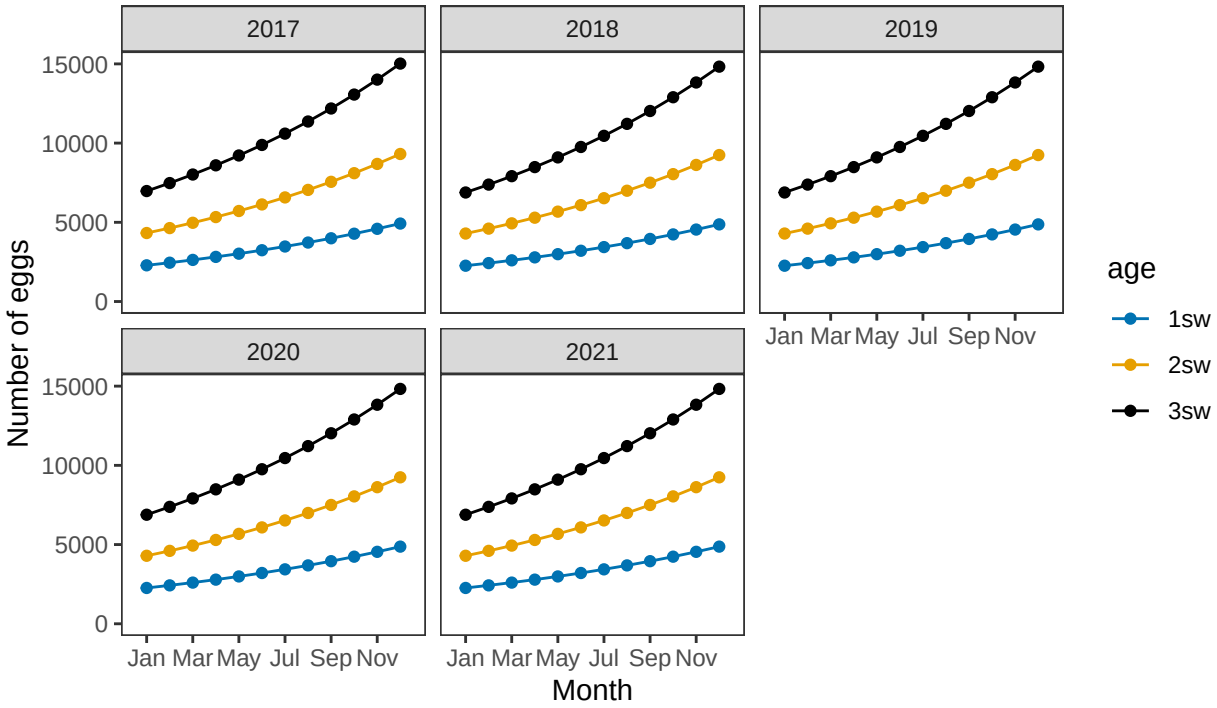
Monthly number of spawning females



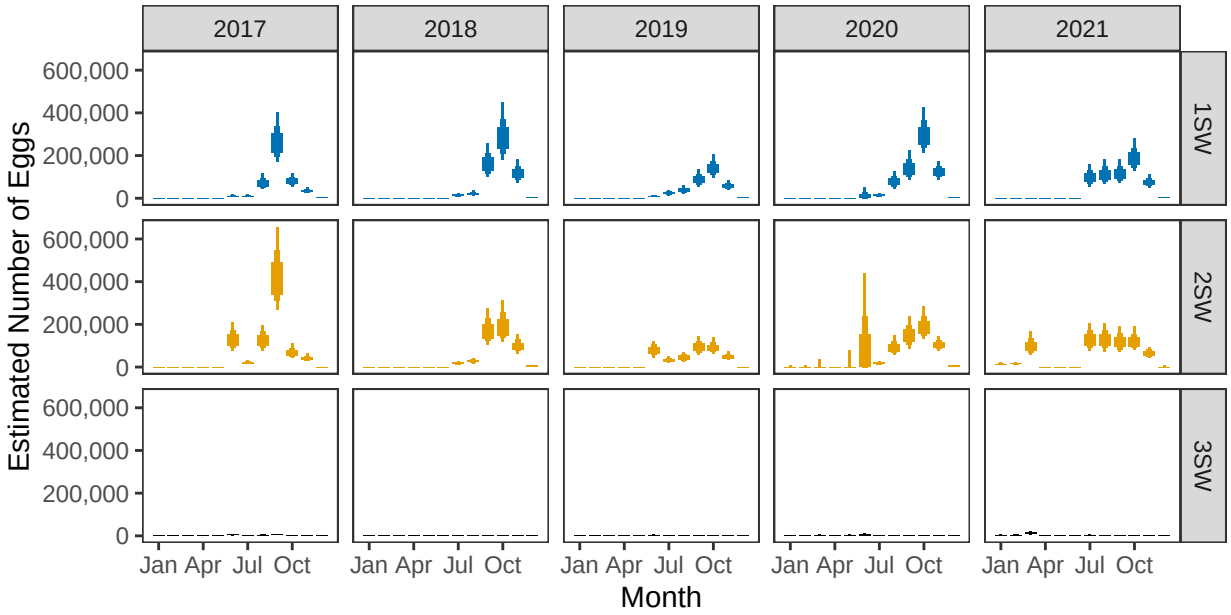
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

3. Converting Number of Spawners to Number of Eggs

Egg contents of females

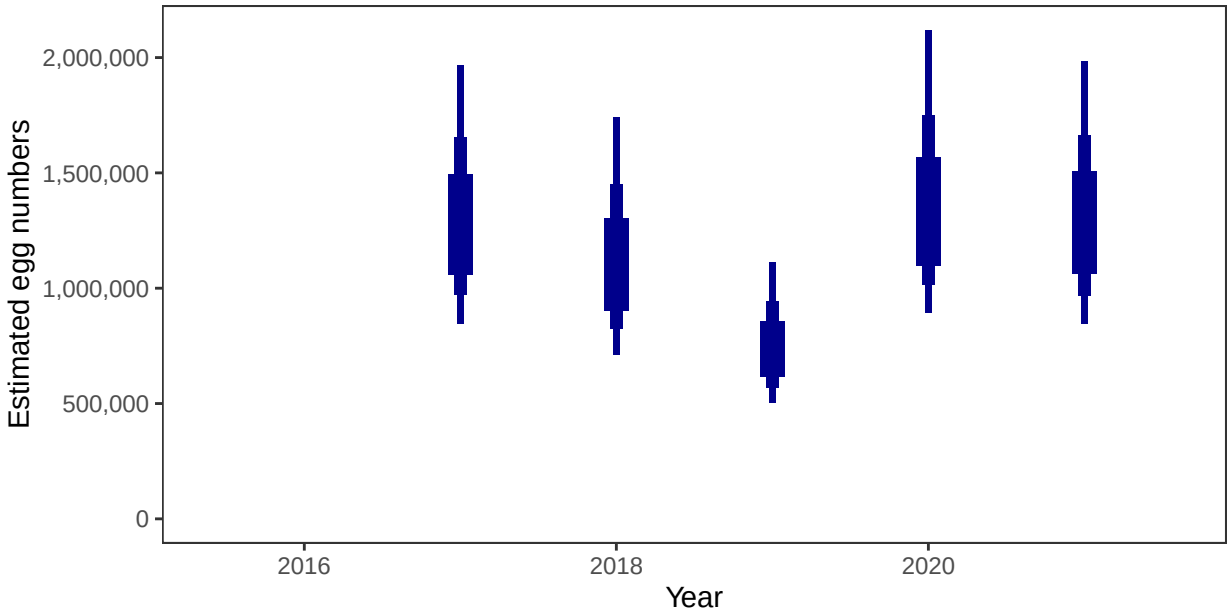


Monthly number of eggs



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Total annual egg numbers



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

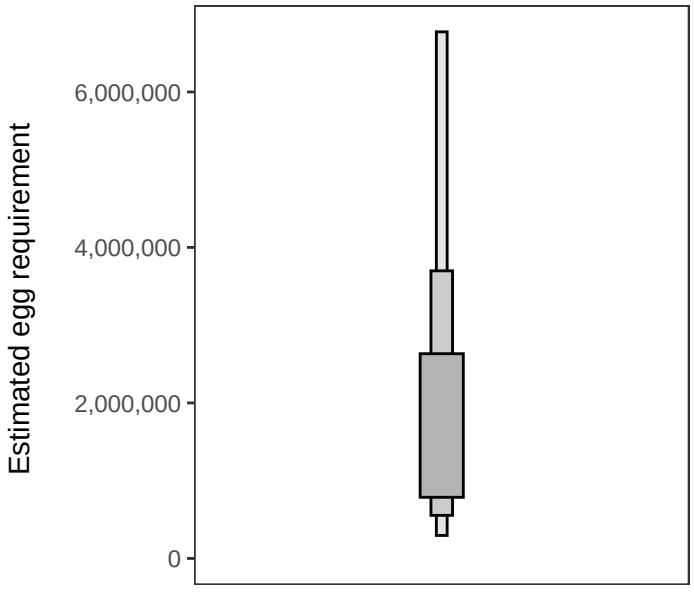
Year	Percentage above
2017	44.41
2018	38.16
2019	23.15
2020	46.61
2021	44.68

4. Egg requirement

Areas of salmon habitat in square meters

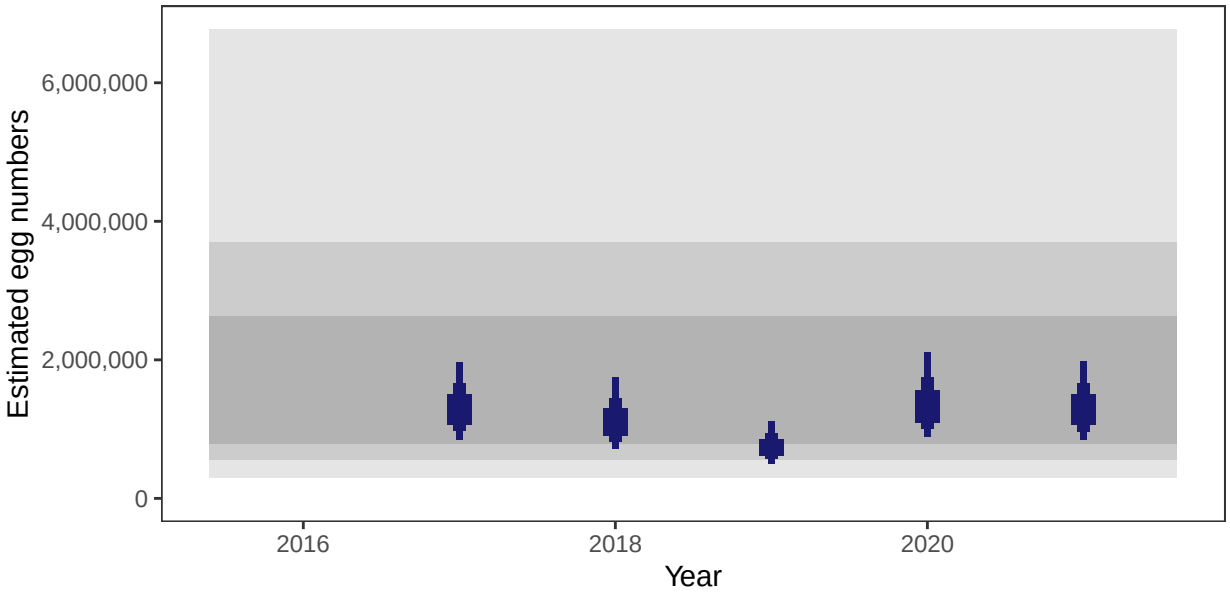
There is an estimated 613,162 square meters of known salmon habitat in the River Ythan and a further 51,709 square meters where salmon may be present.

Egg requirement



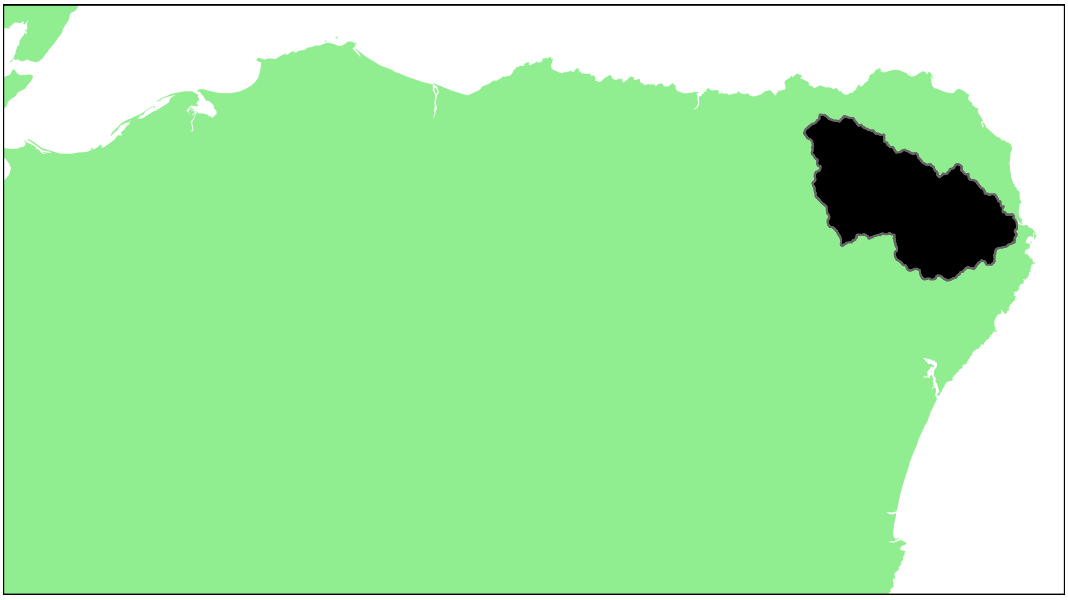
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)

River Ugie: Grade 3



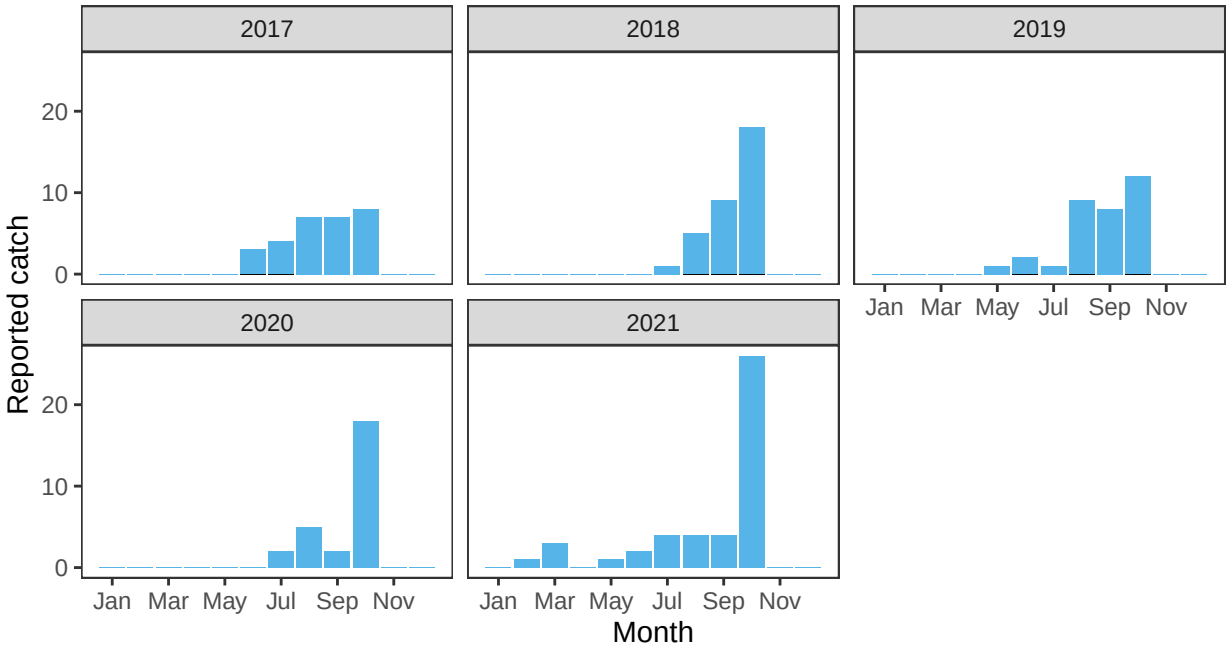
Summary Table

Eggs required (m^2)[a]	Area (m^2)[a]	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2017	2018	2019	2020	2021	Overall	
2.02	541,200	1,091,448	31.61	38.61	30.57	34.55	39.85	35.04	3

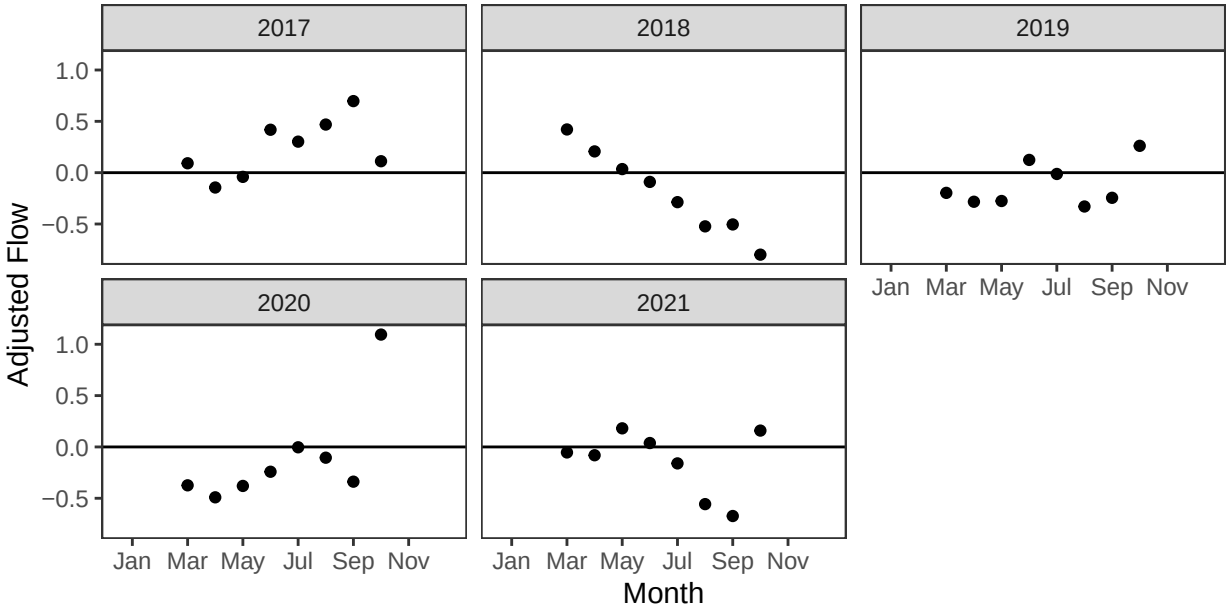
[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

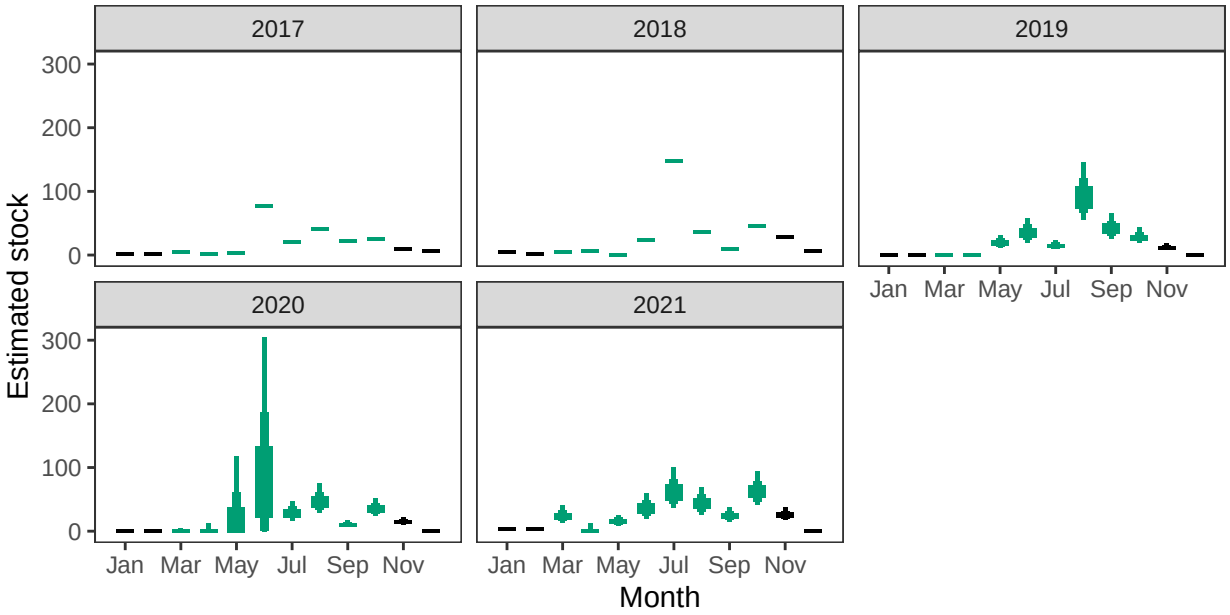
Reported Catches (black = retained, blue = released)



Monthly flow data

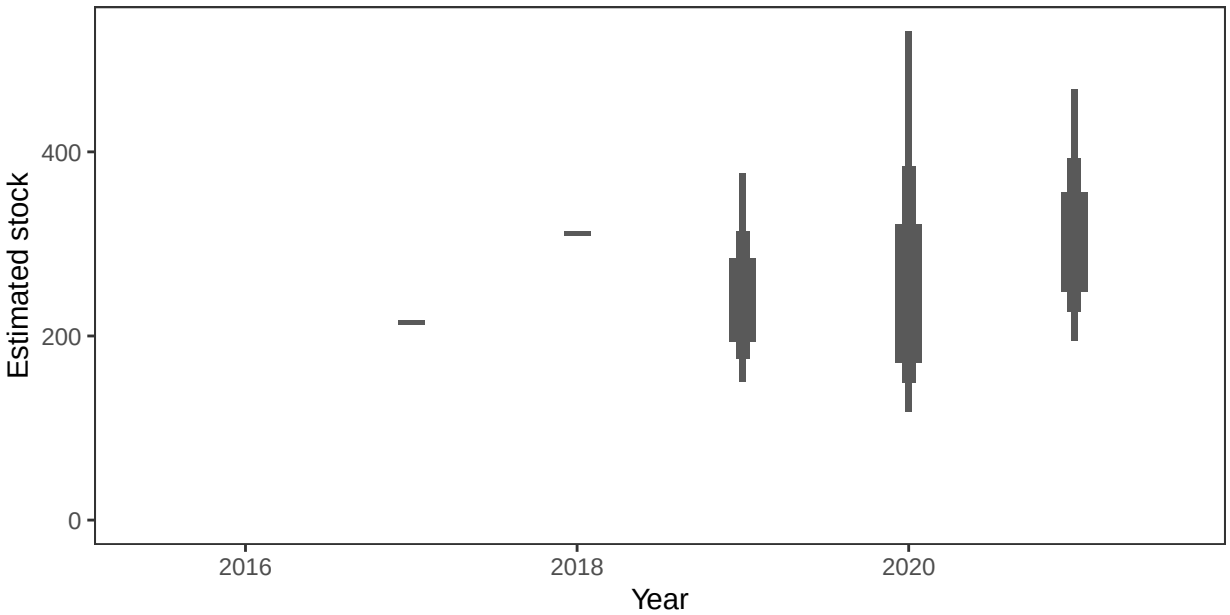


Monthly stock estimates (out of season in black)



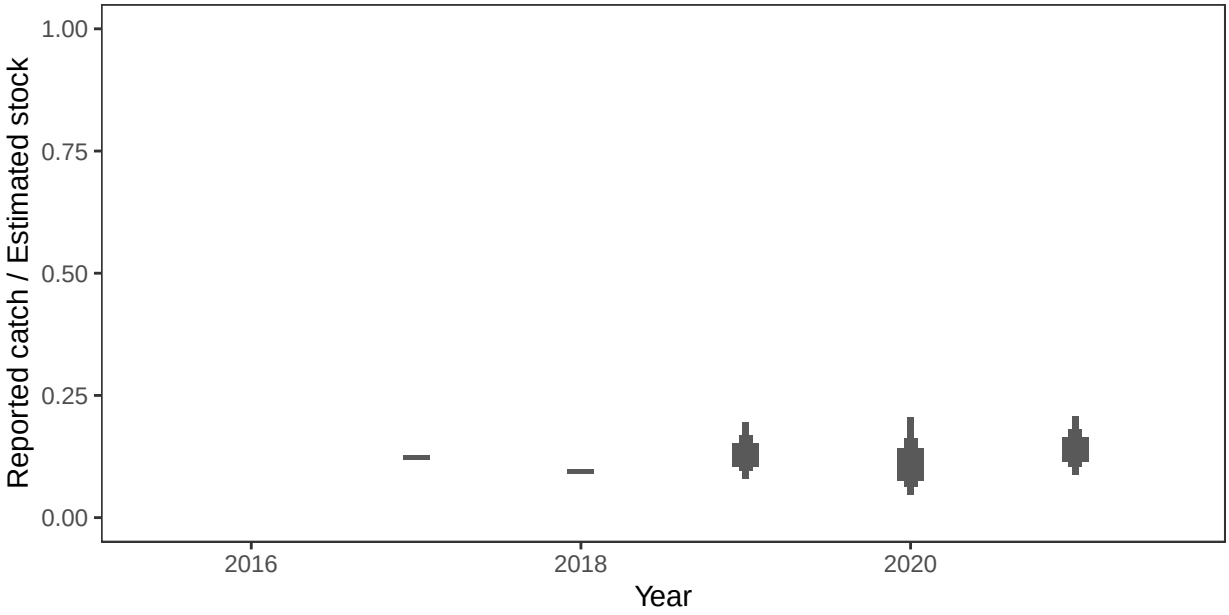
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual catch as a proportion of stock

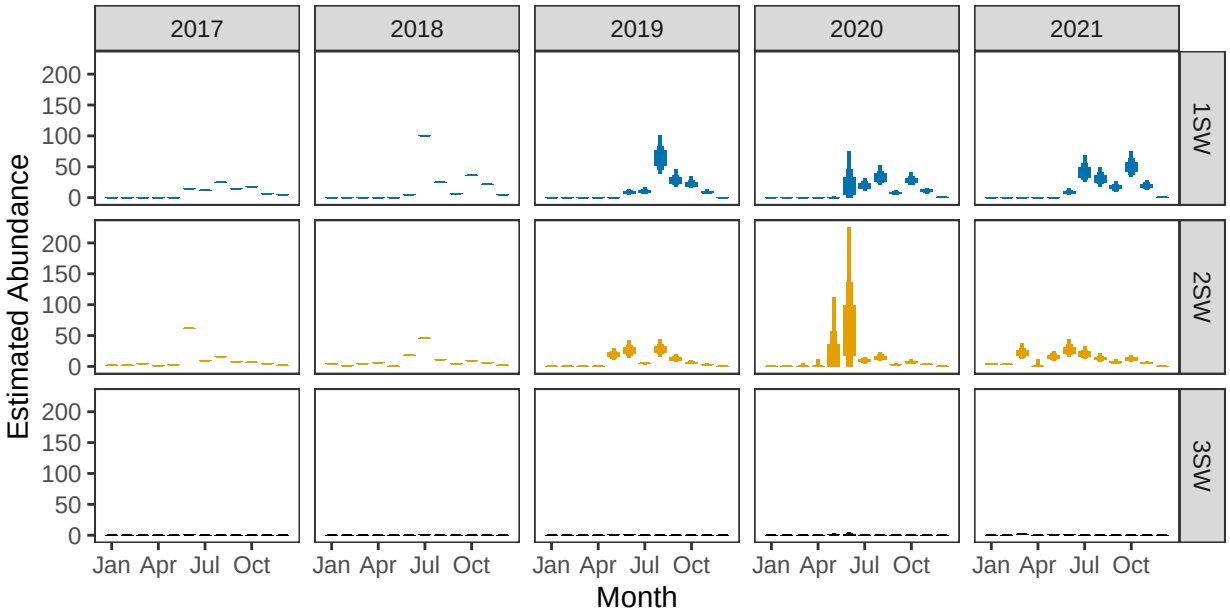


Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish

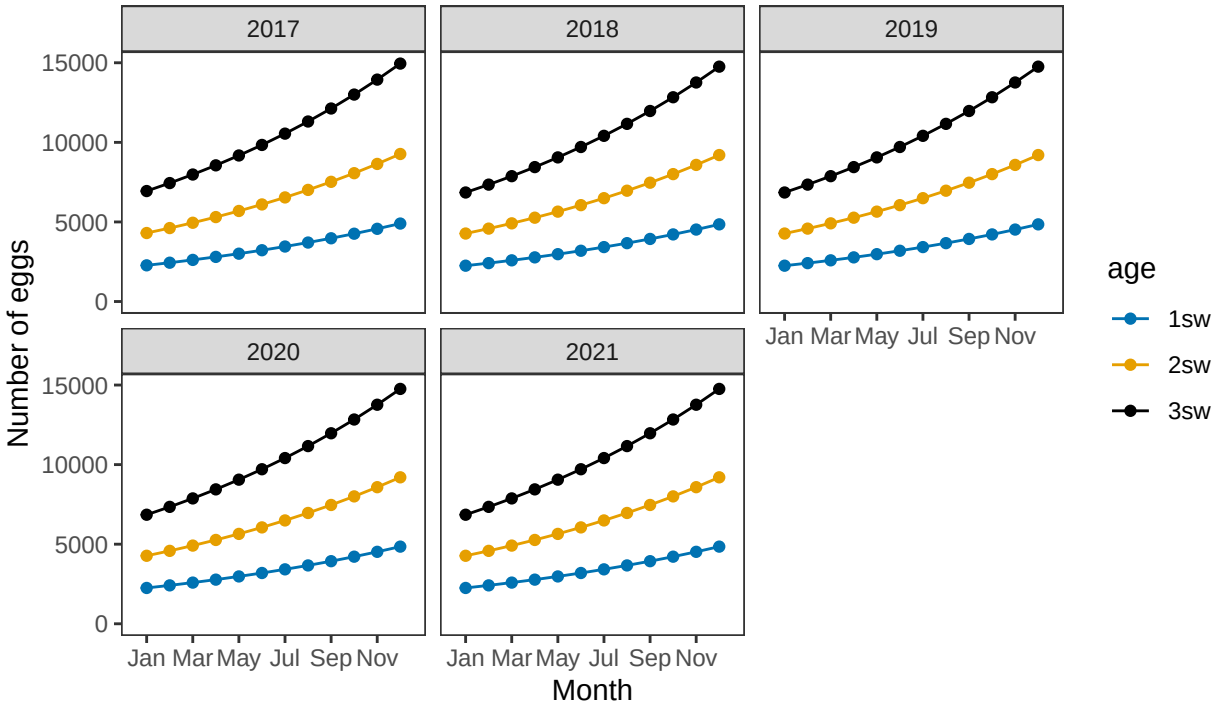
Monthly number of spawning females



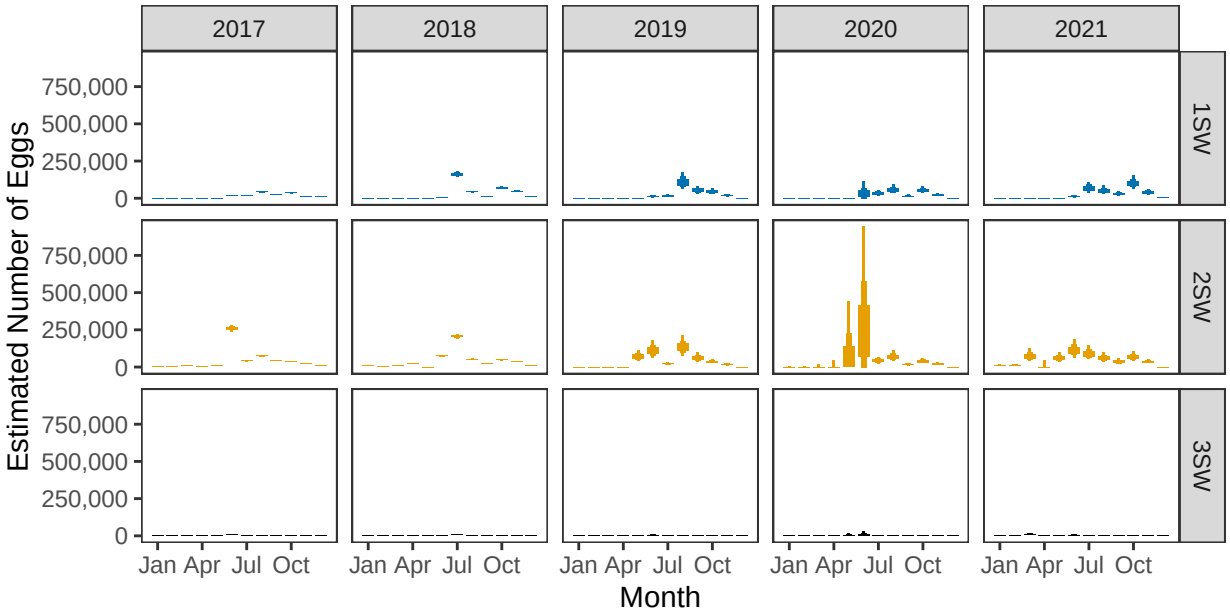
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

3. Converting Number of Spawners to Number of Eggs

Egg contents of females

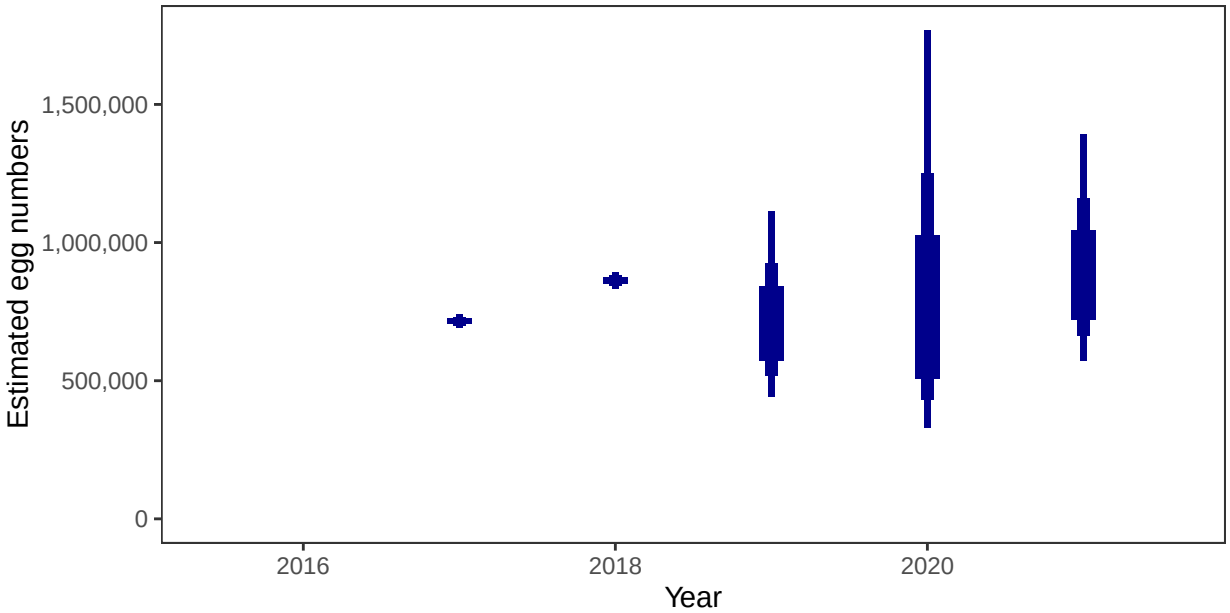


Monthly number of eggs



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Total annual egg numbers



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

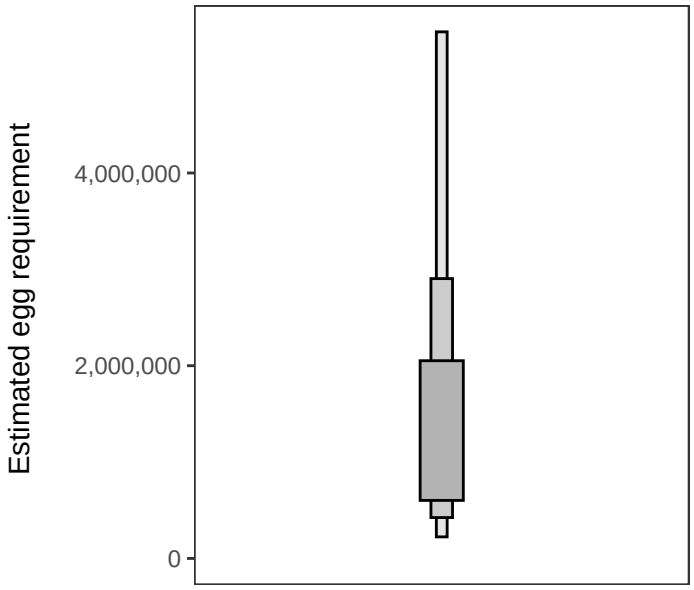
Year	Percentage above
2017	31.61
2018	38.61
2019	30.57
2020	34.55
2021	39.85

4. Egg requirement

Areas of salmon habitat in square meters

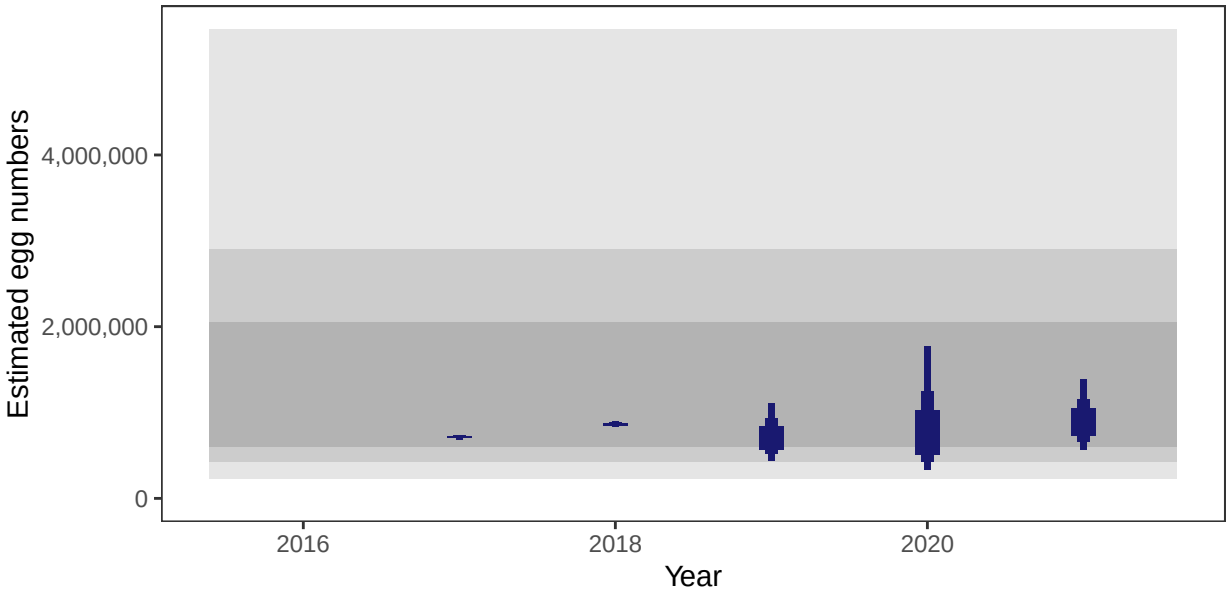
There is an estimated 468,597 square meters of known salmon habitat in the River Ugie and a further 146,438 square meters where salmon may be present.

Egg requirement



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached



Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)