North East Region

River South Esk SAC: Grade 2
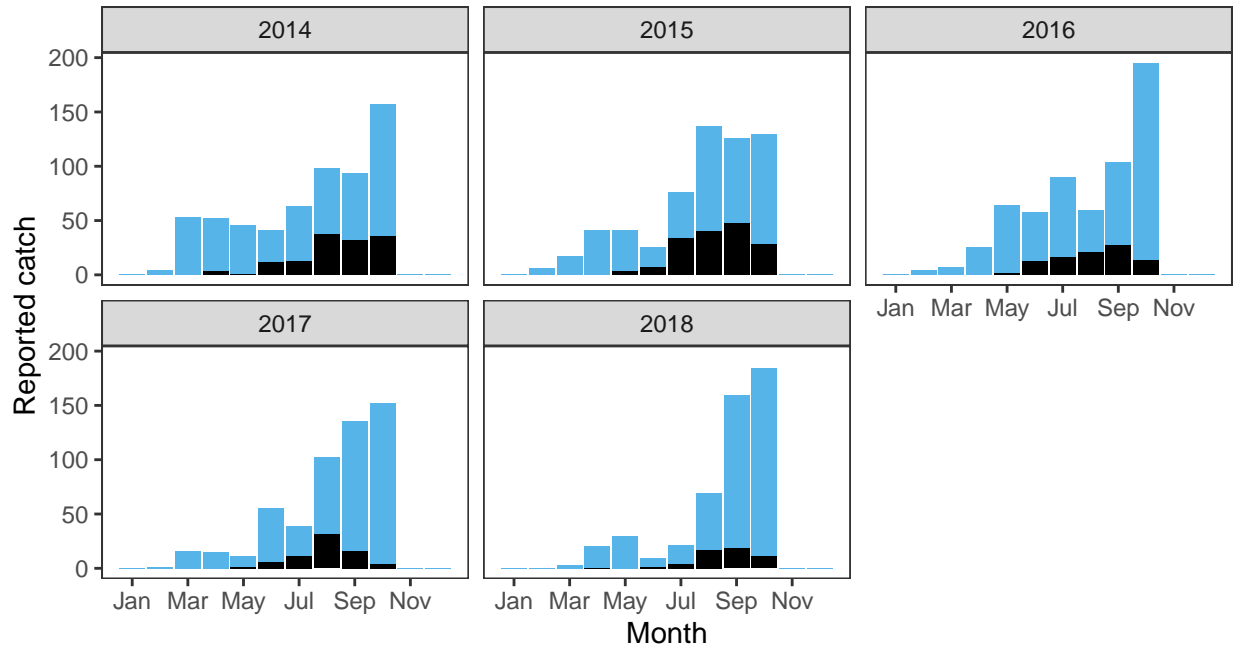

Summary Table

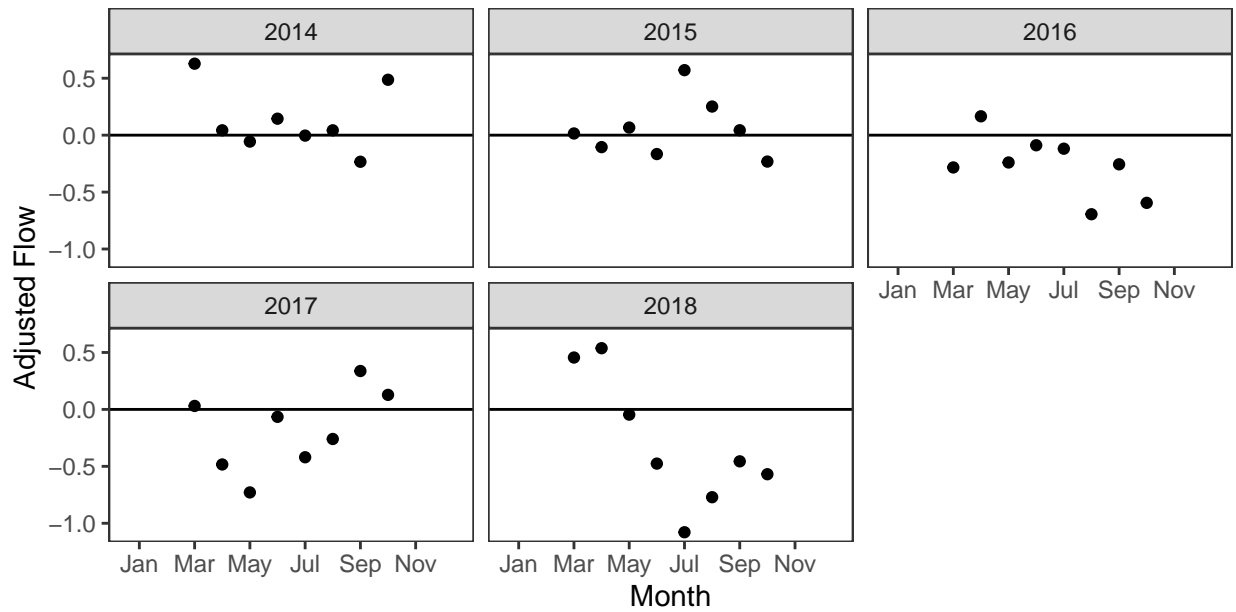| Eggs required (m²)[a]	Area (m²)[a]	Total egg requirement[a]	Percentage chance meeting requirement						
			2014	2015	2016	2017	2018	Overall	Grade
2.84	2,027,900	5,757,312	83.79	80.6	86.08	77.58	67.24	79.06	2

[a] Figures presented are median values

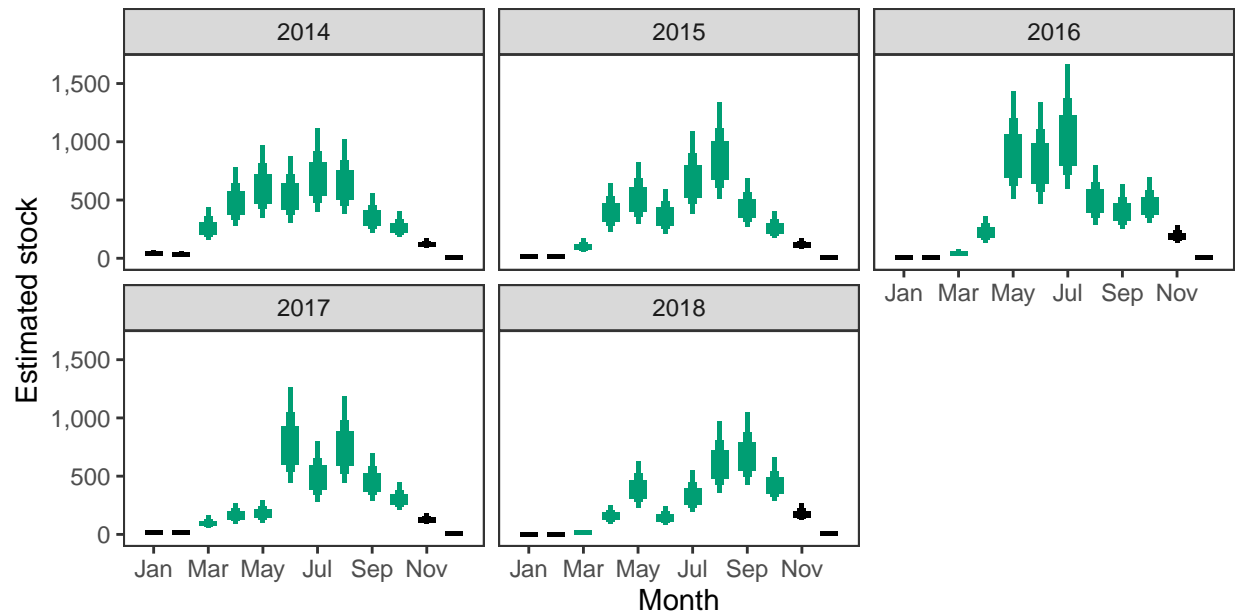# 1. Converting Reported Catches to Numbers of Returning Salmon

Reported Catches (black = retained, blue = released)
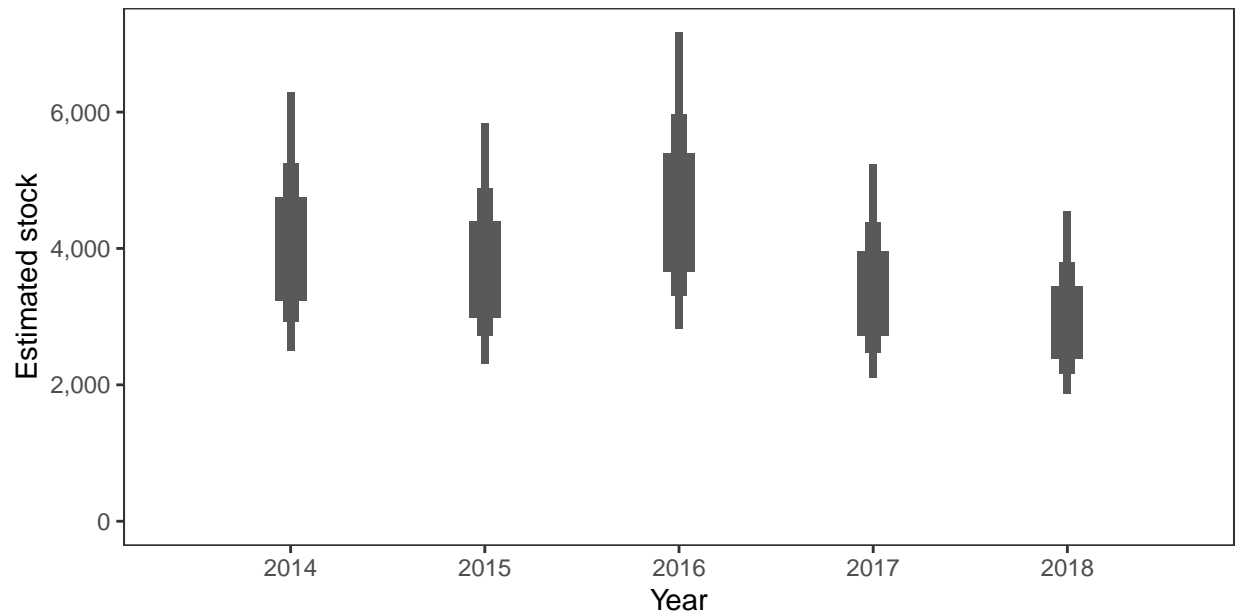

Monthly flow data

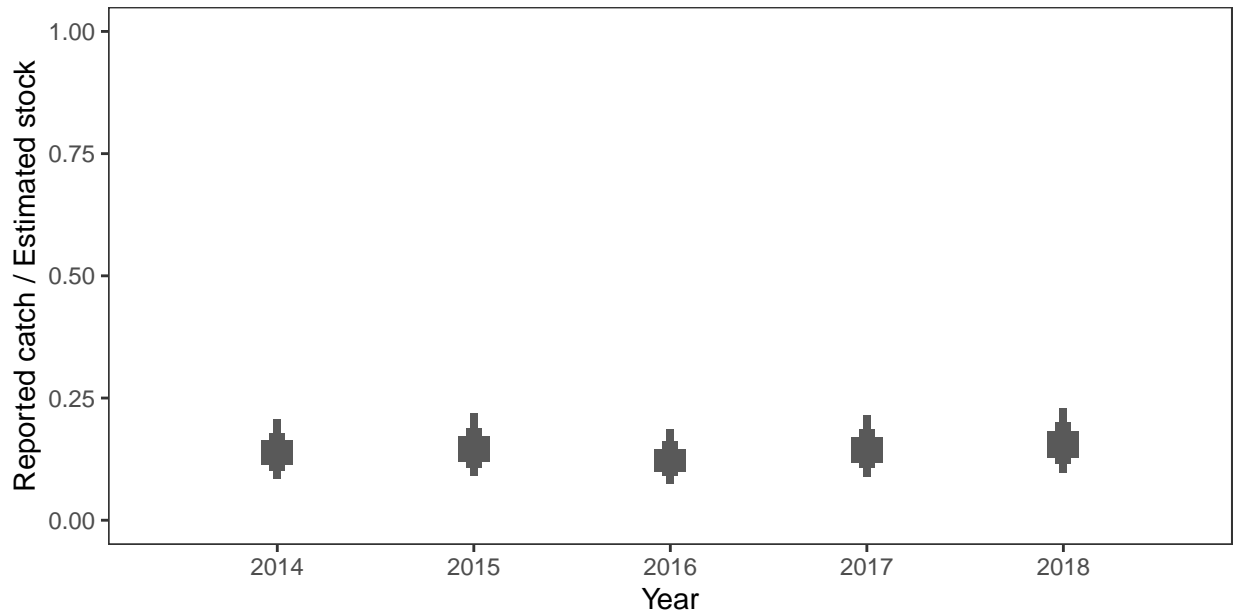## Monthly stock estimates (out of season in black)

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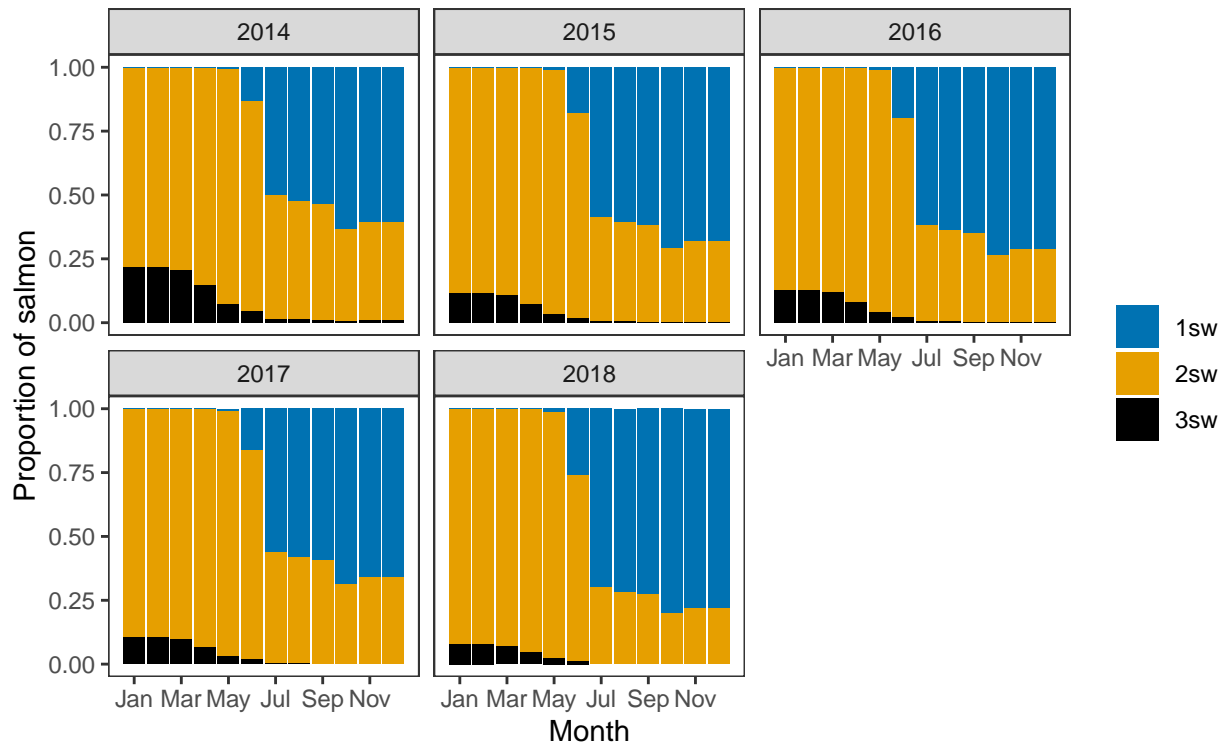
Annual estimated stock

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

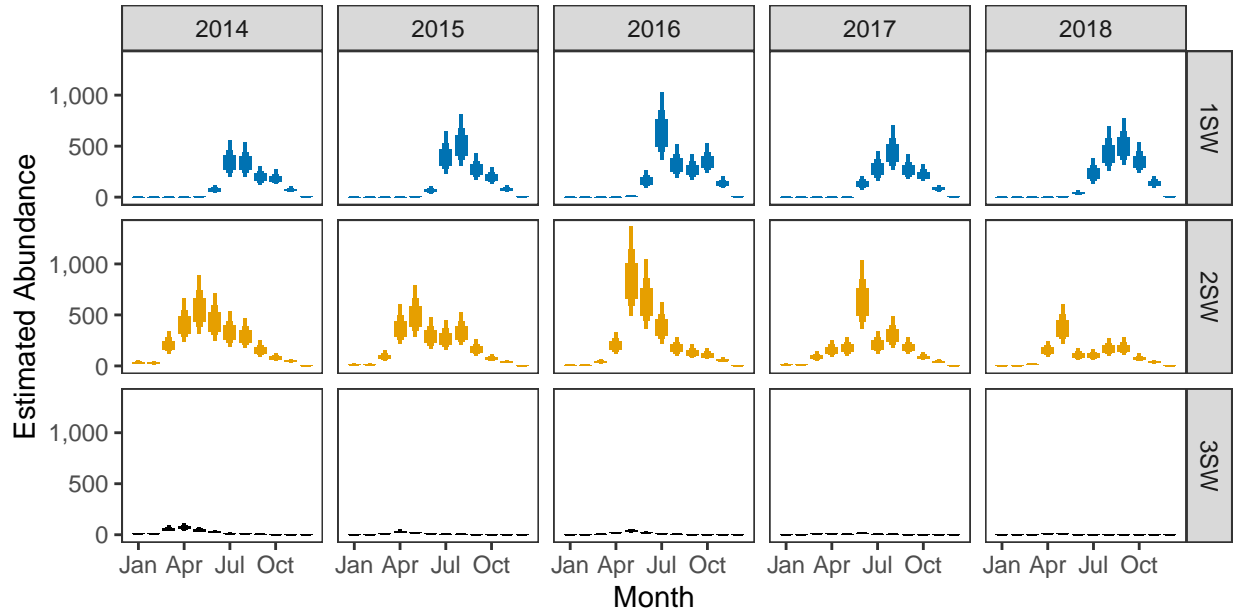*Annual catch as a proportion of stock*

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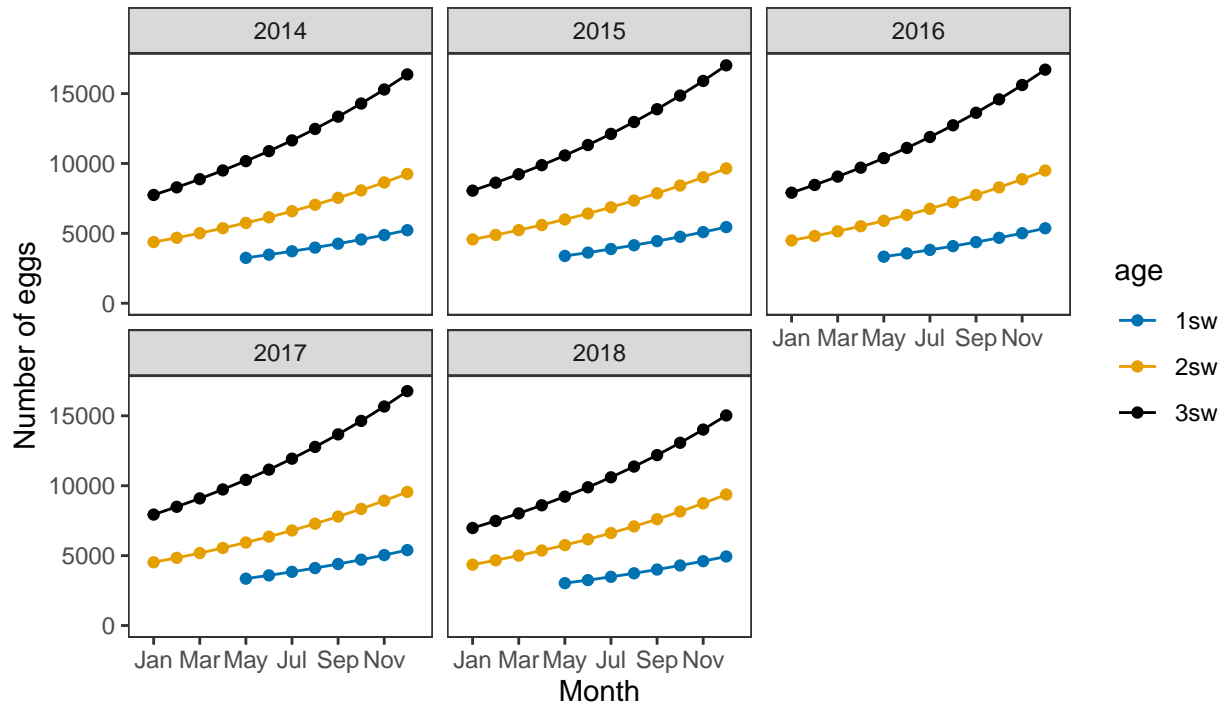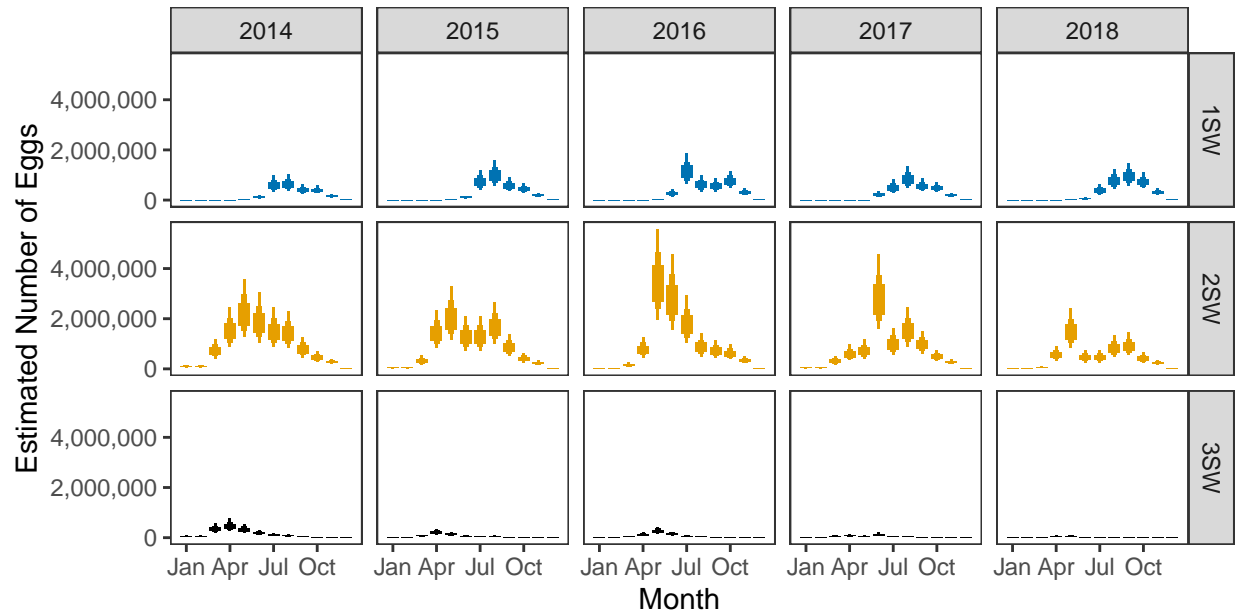
Ages of fish

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

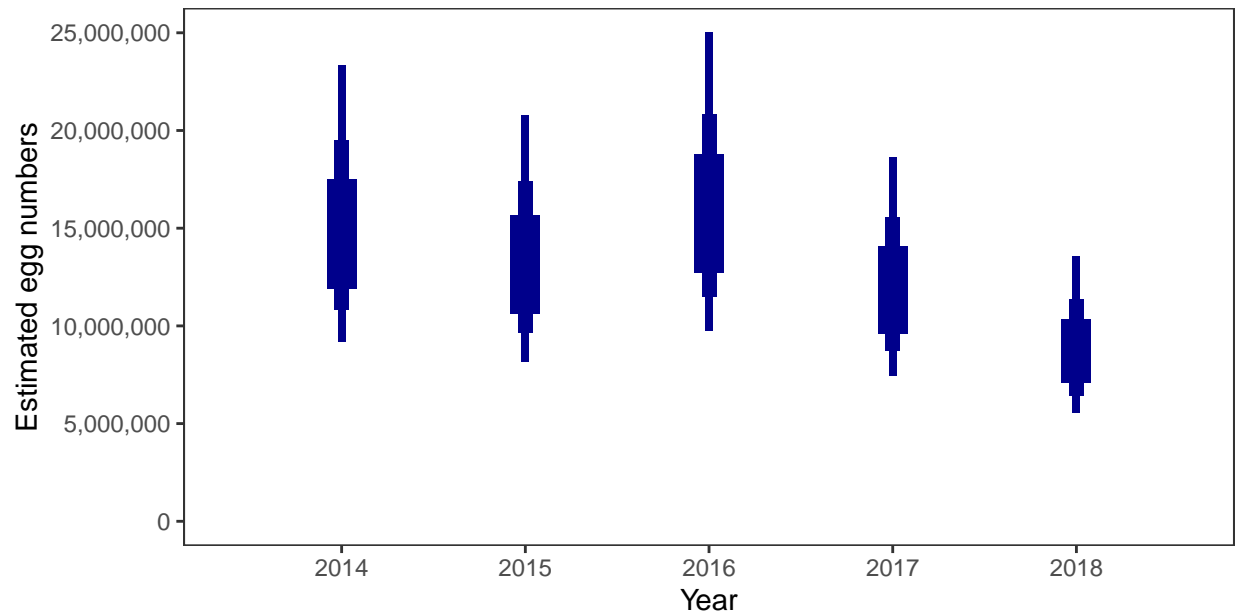*Egg contents of females*

Monthly number of eggs

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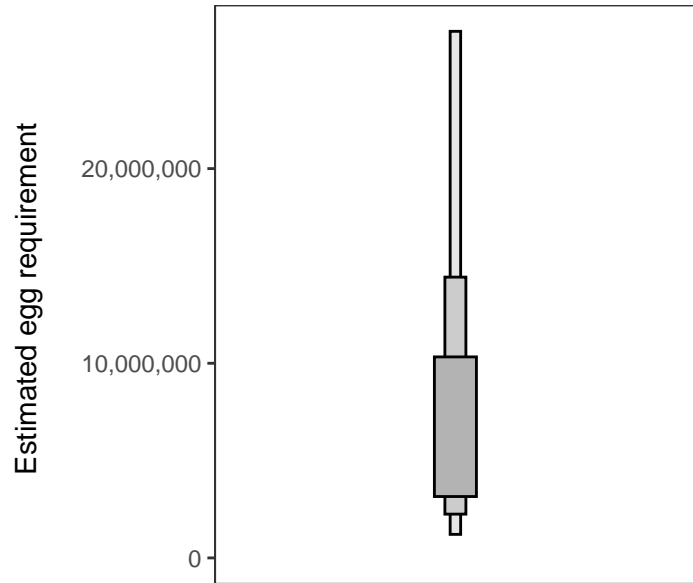
Total annual egg numbers

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

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.
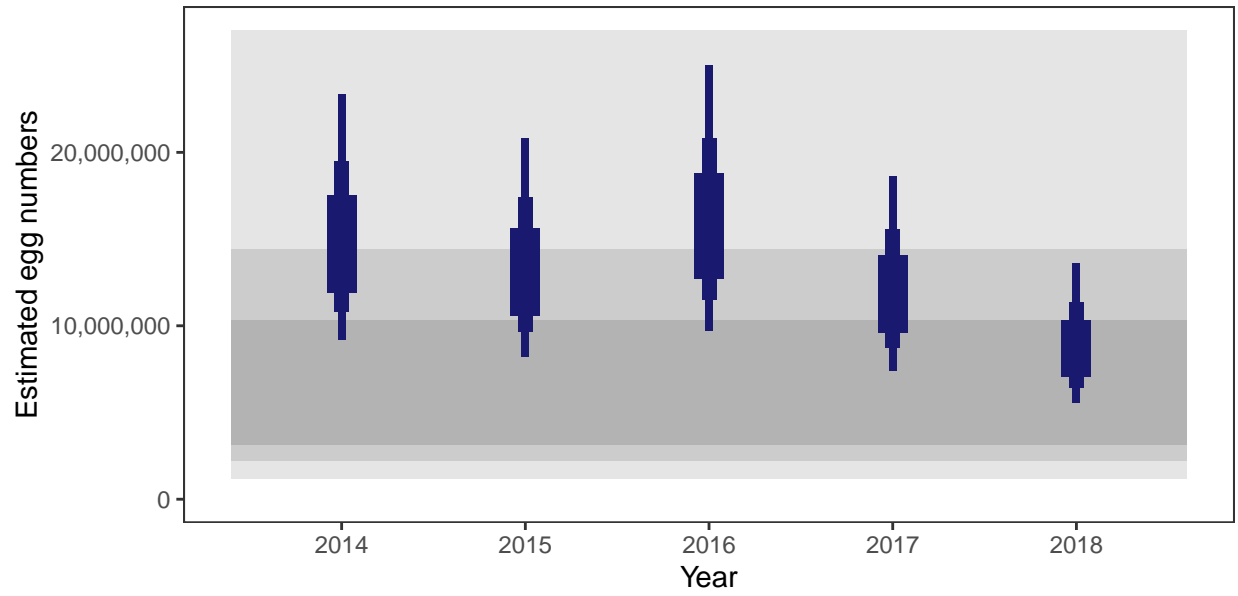
Egg requirement

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

5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	83.79
2015	80.60
2016	86.08
2017	77.58
2018	67.24

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)
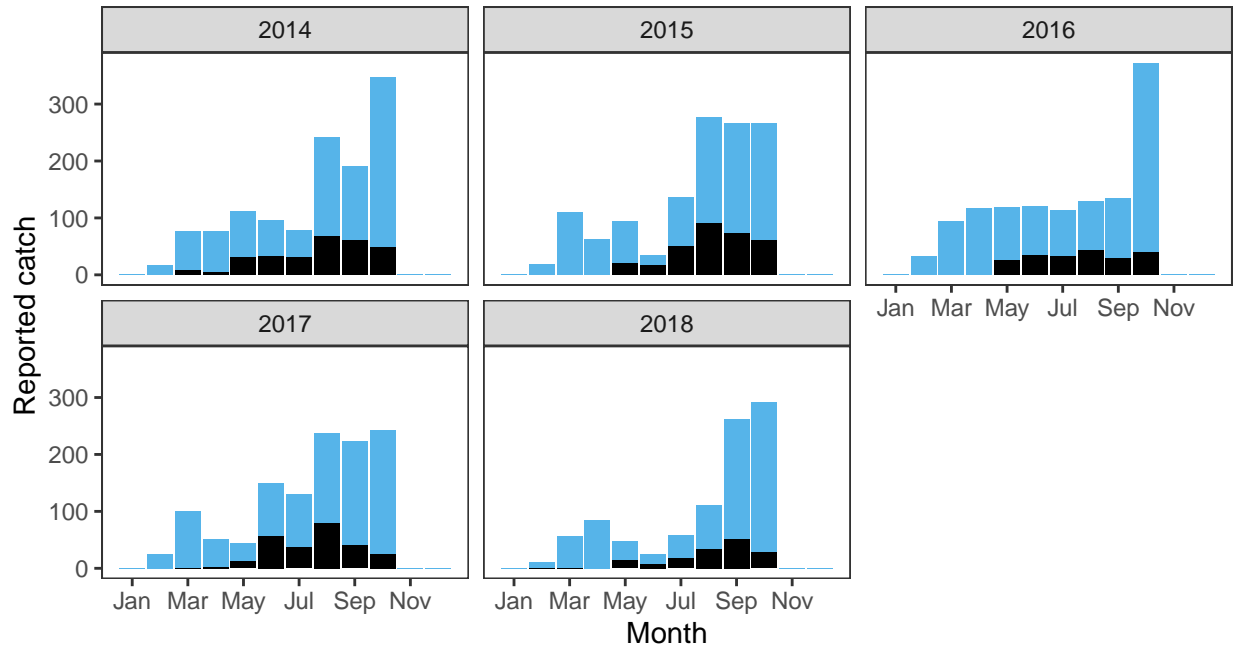
River North Esk: Grade 1

Summary Table

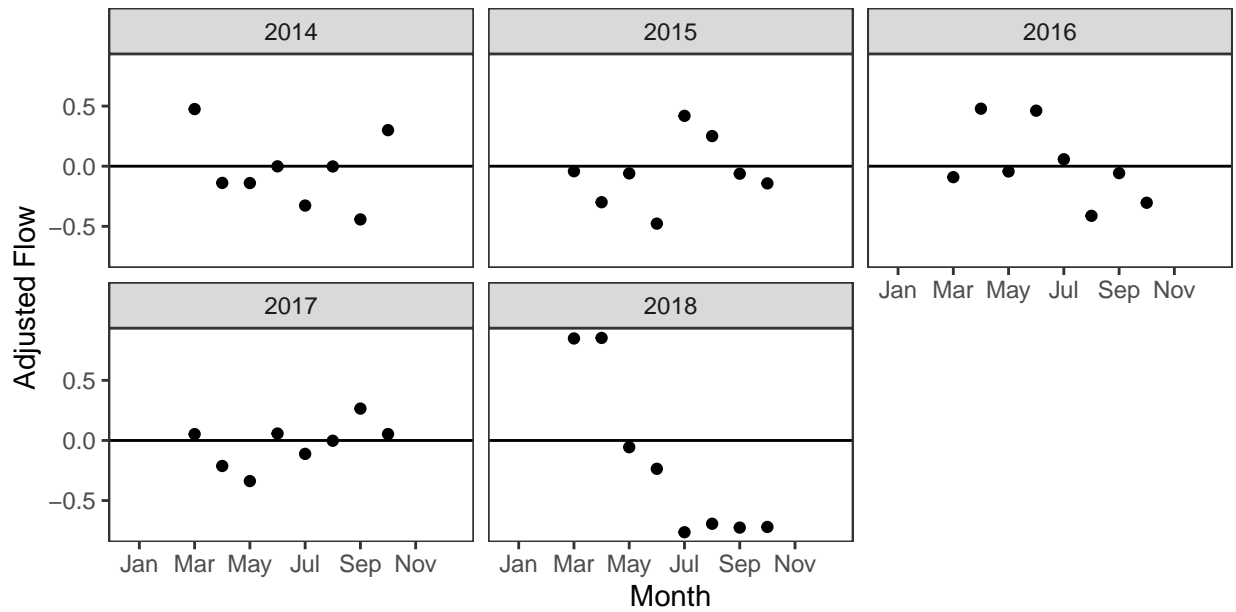| Eggs required $(m^2)^a$	Area $(m^2)^a$	Total egg requirement[a]	Percentage chance meeting requirement						Grade
			2014	2015	2016	2017	2018	Overall	
8.27	2,310,600	19,104,783	98.85	99.48	98.97	96.91	43.57	87.56	1

[a] Figures presented are median values

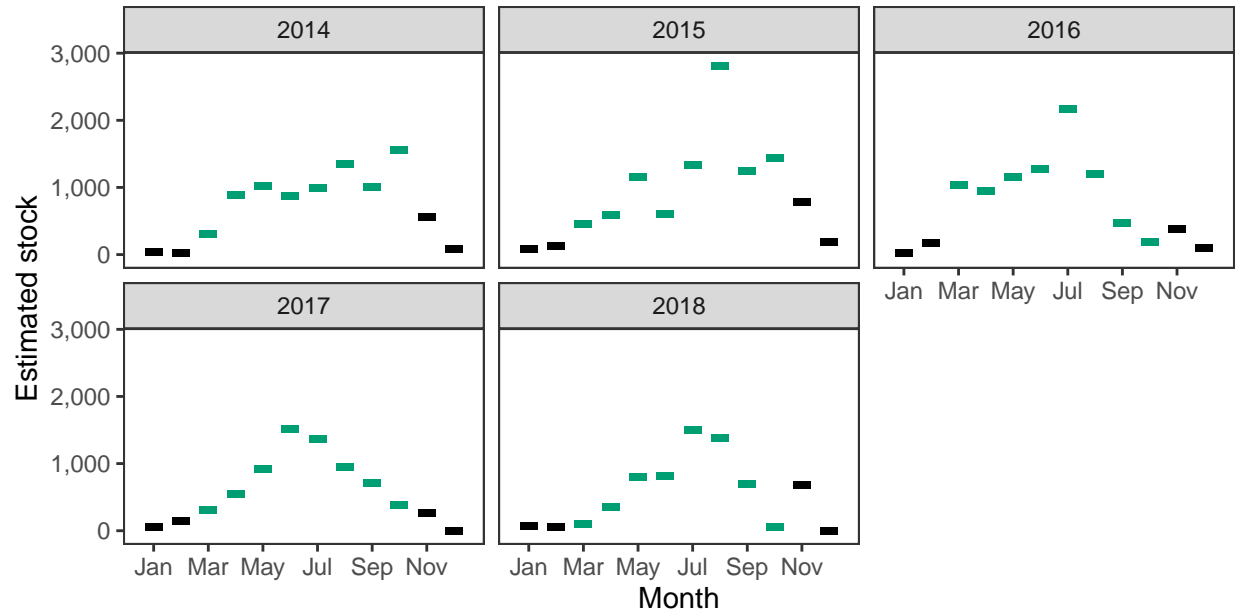# 1. Converting Reported Catches to Numbers of Returning Salmon

Reported Catches (black = retained, blue = released)
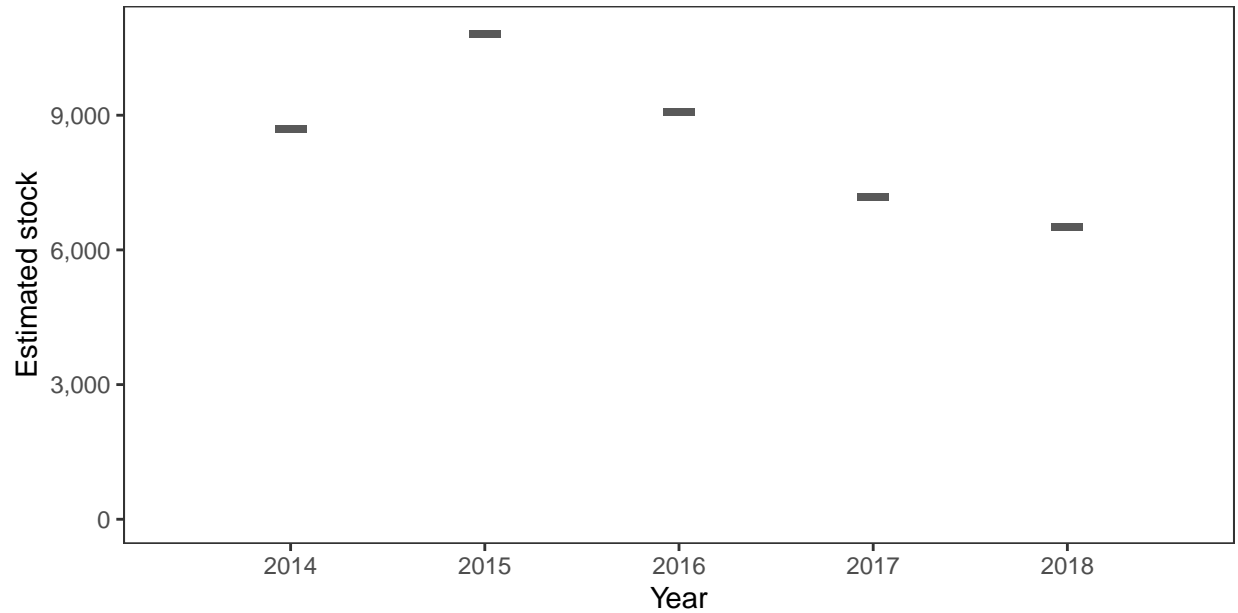

Monthly flow data

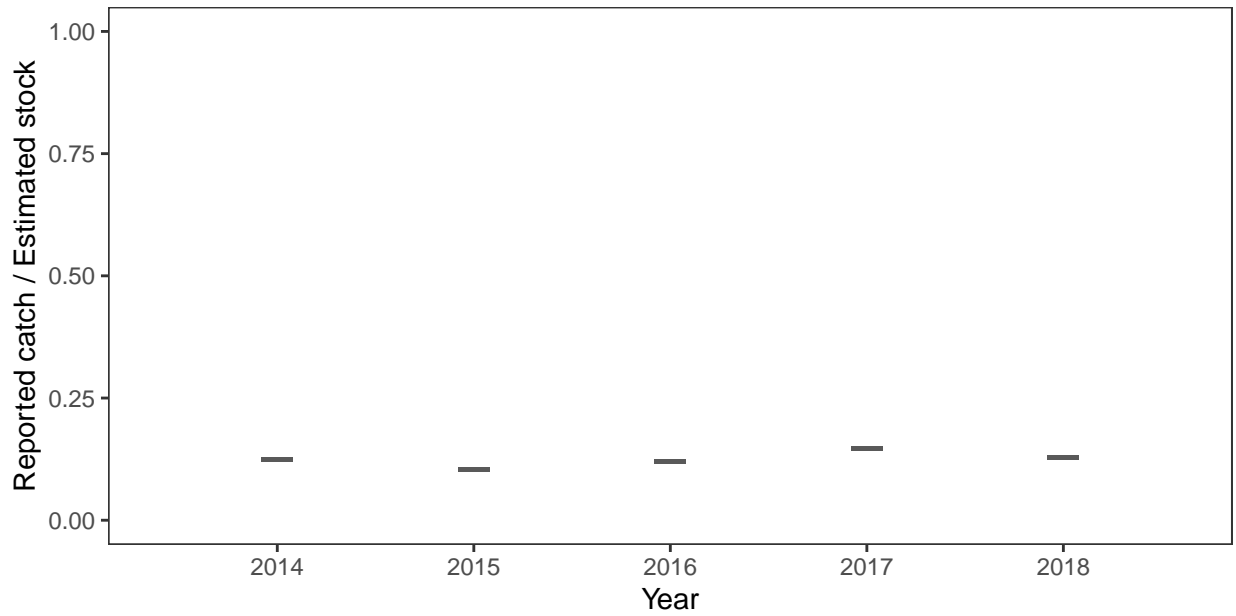*Monthly stock estimates (out of season in black)*

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

Annual estimated stock

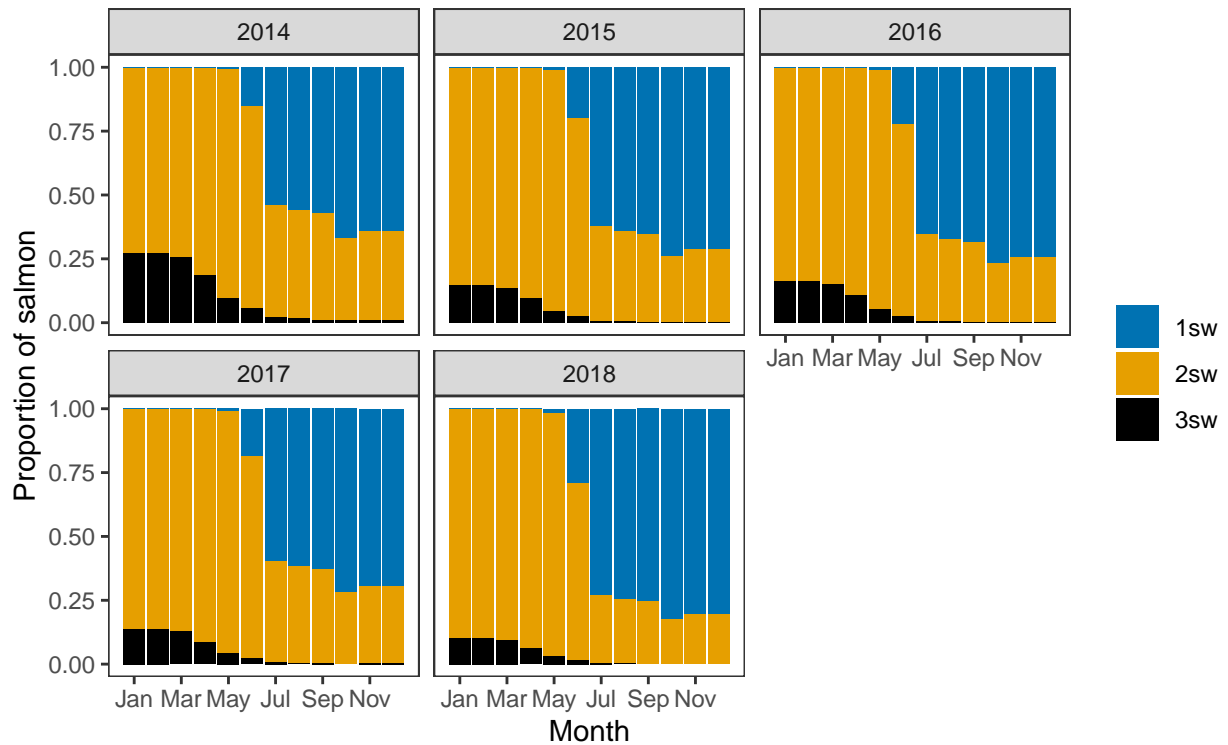Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).
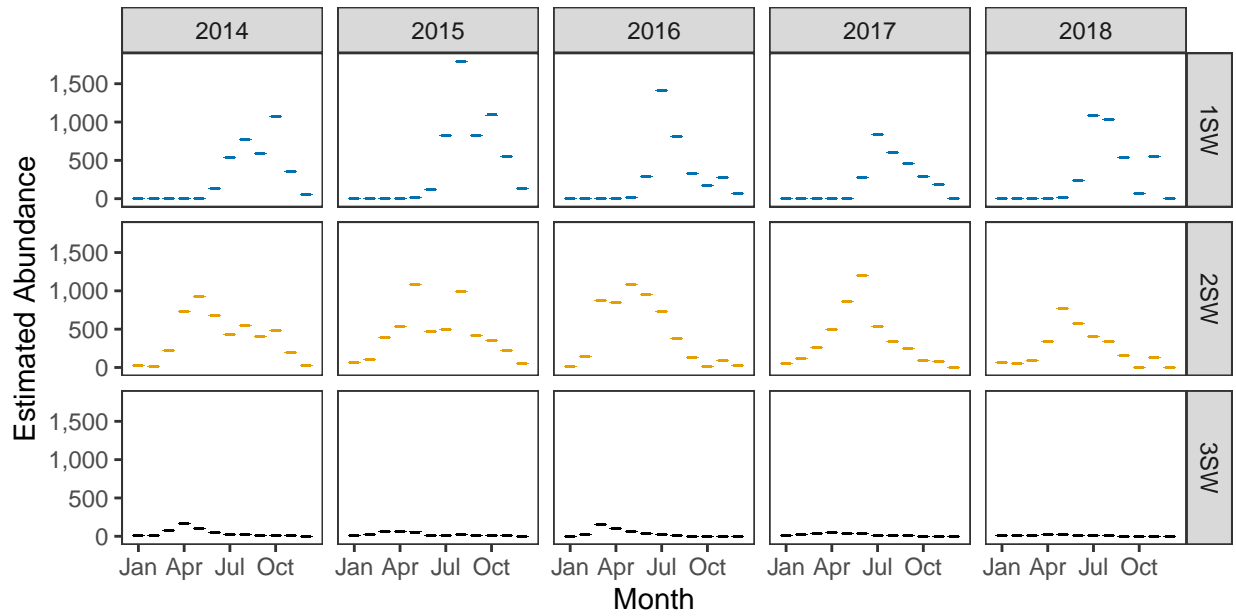
Annual catch as a proportion of stock

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

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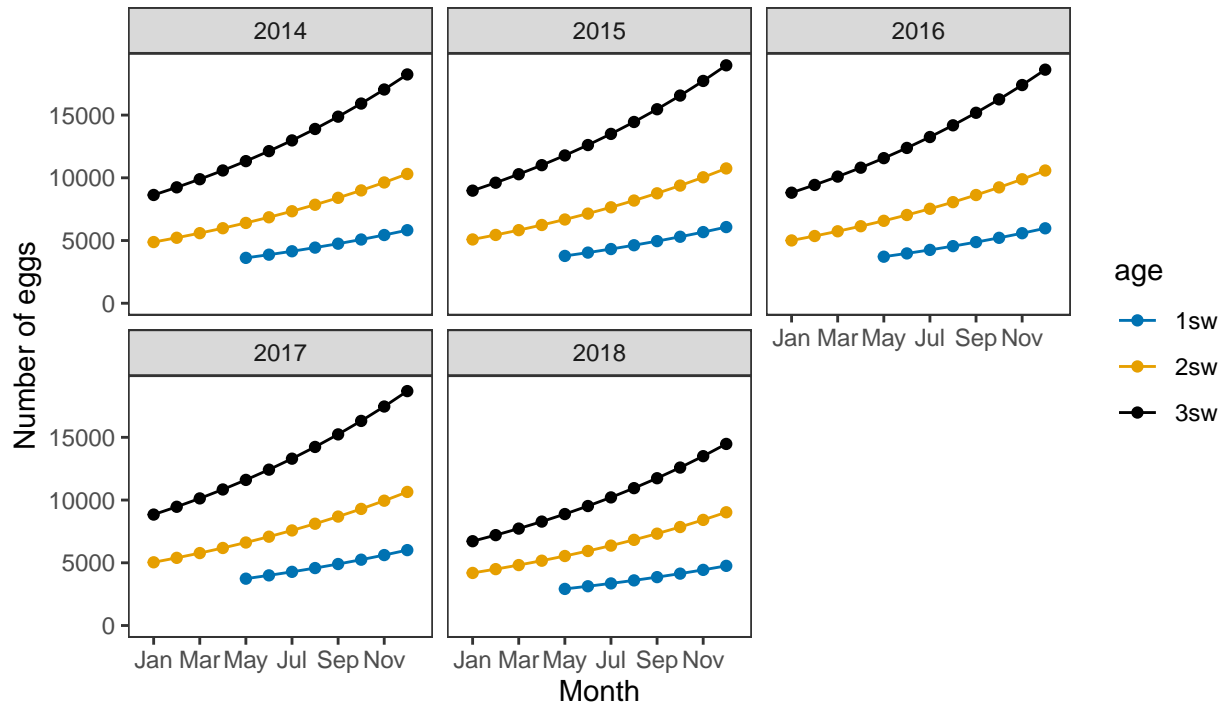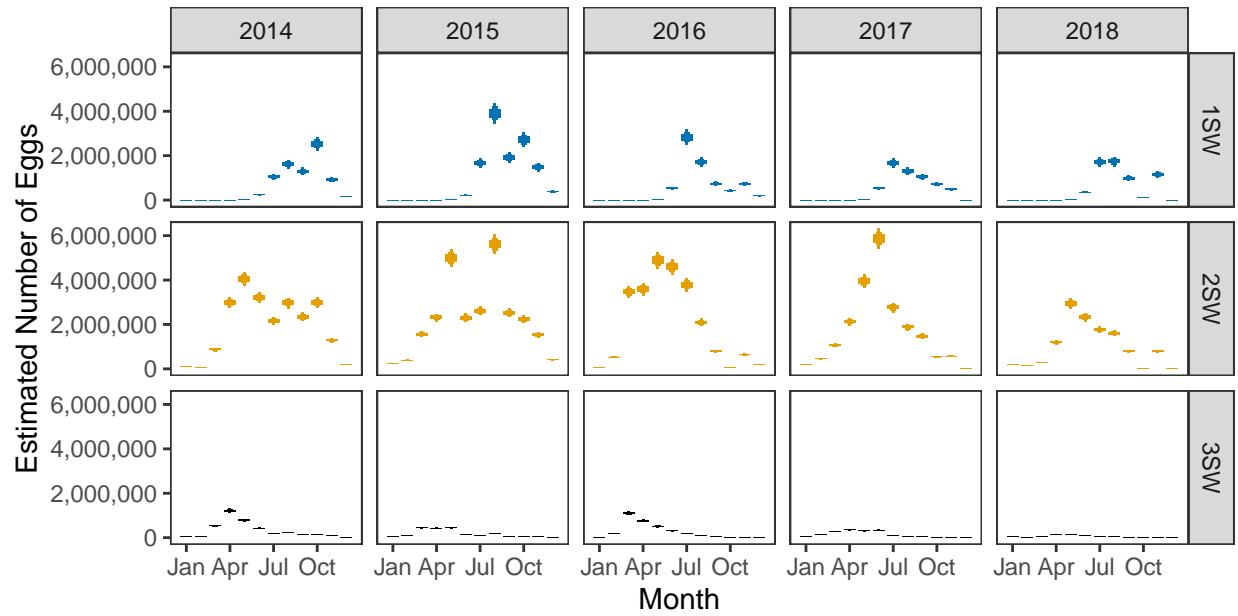
Ages of fish

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

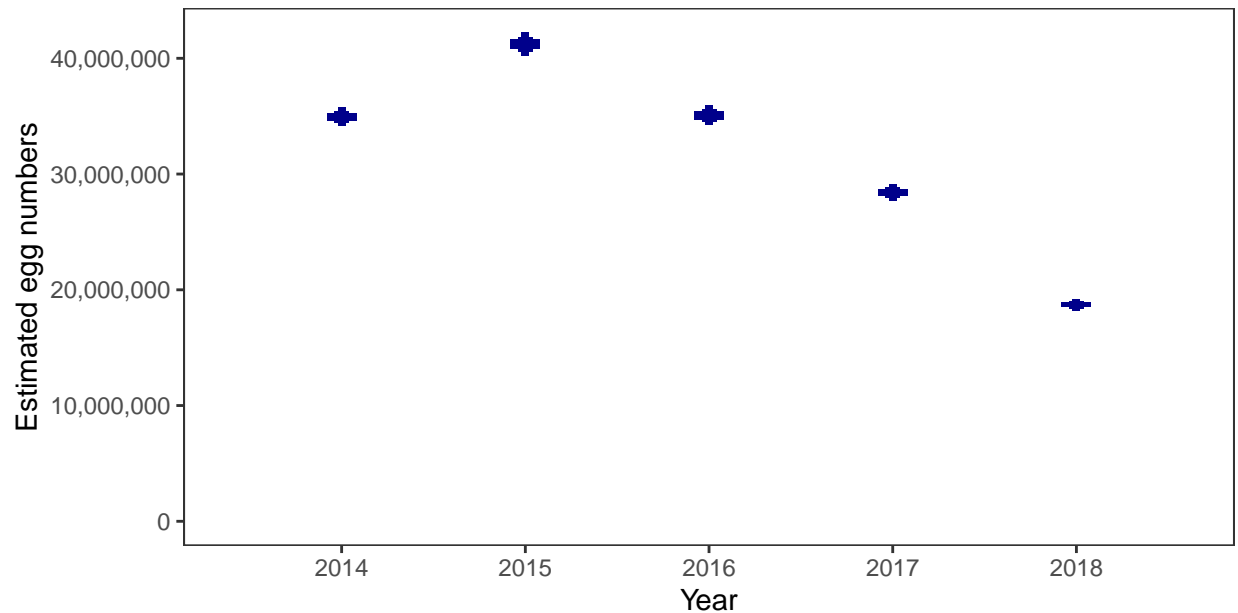*Egg contents of females*

Monthly number of eggs

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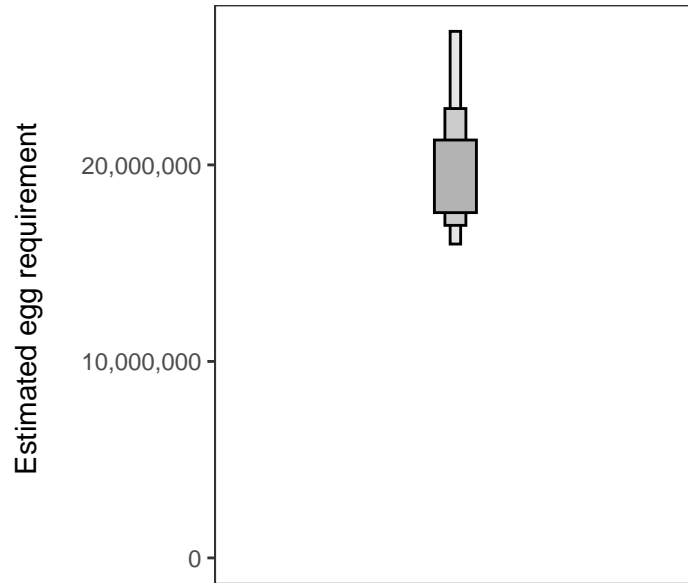
Total annual egg numbers

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

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.
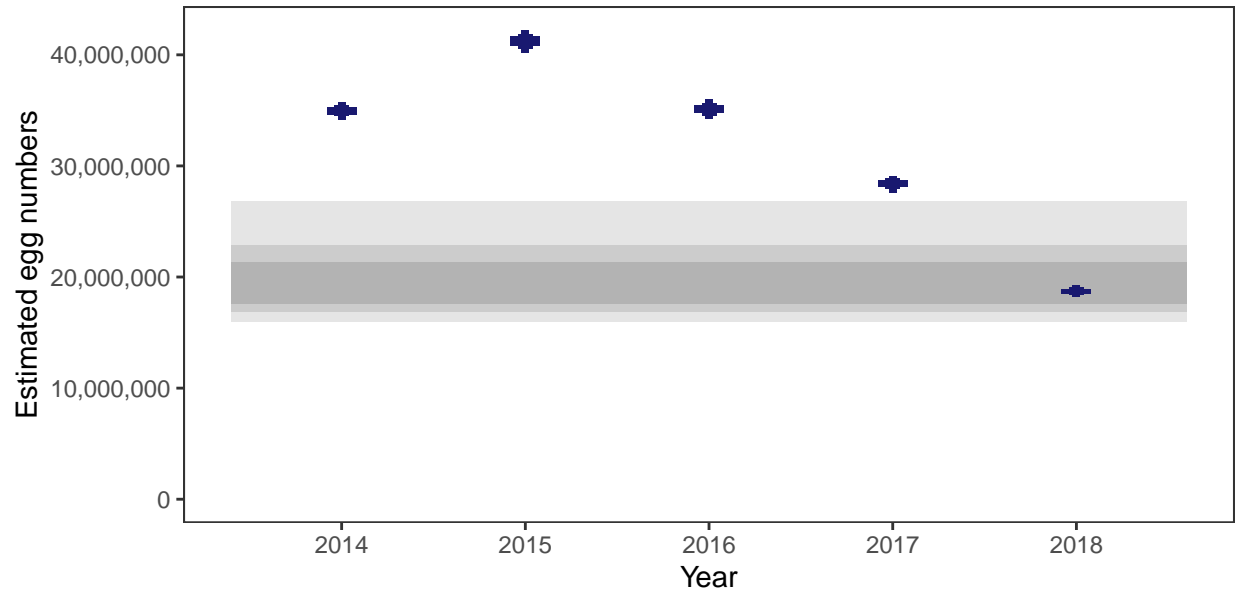
Egg requirement

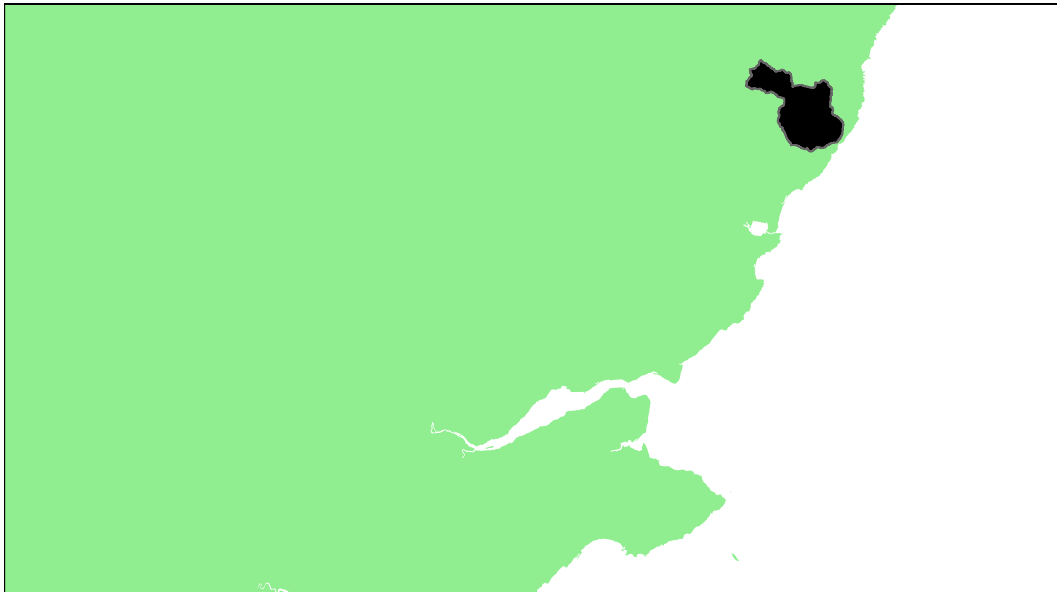Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	98.85
2015	99.48
2016	98.97
2017	96.91
2018	43.57

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

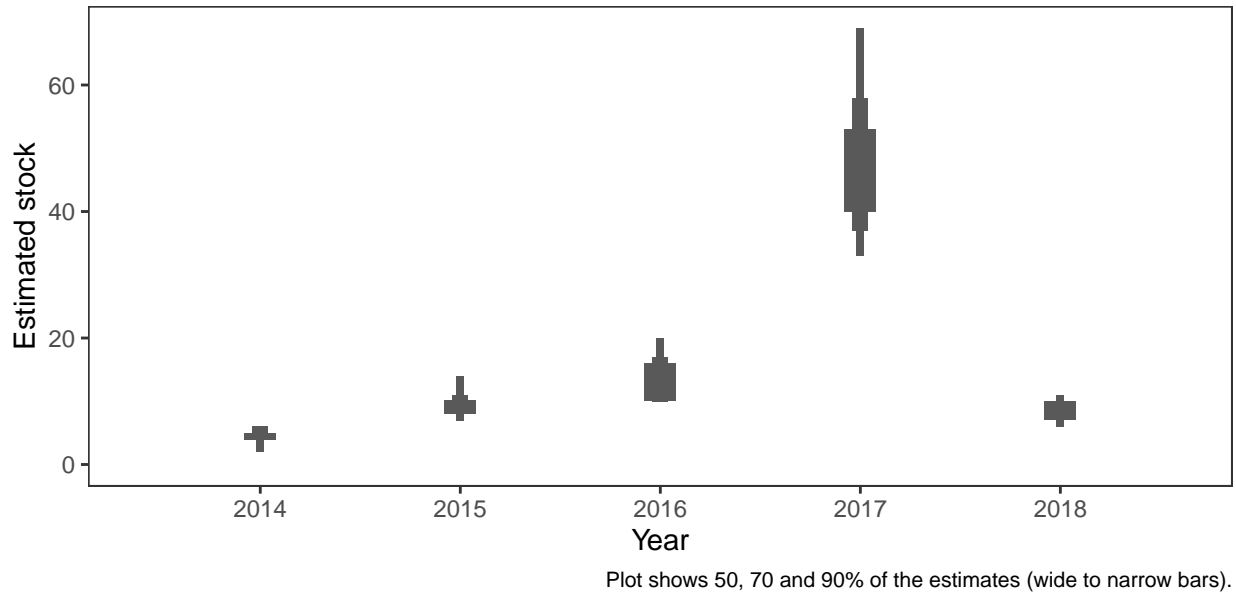**Detailed information on catches is not publicly available for this assessment area**

Summary Table

Eggs required (m²)ᵃ	Area (m²)ᵃ	Total egg requirementᵃ	Percentage chance meeting requirement						Grade
			2014	2015	2016	2017	2018	Overall	
1.14	226,900	259,409	1.83	6.16	8.93	36.76	4.02	11.54	3

ᵃ Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

Annual estimated stock

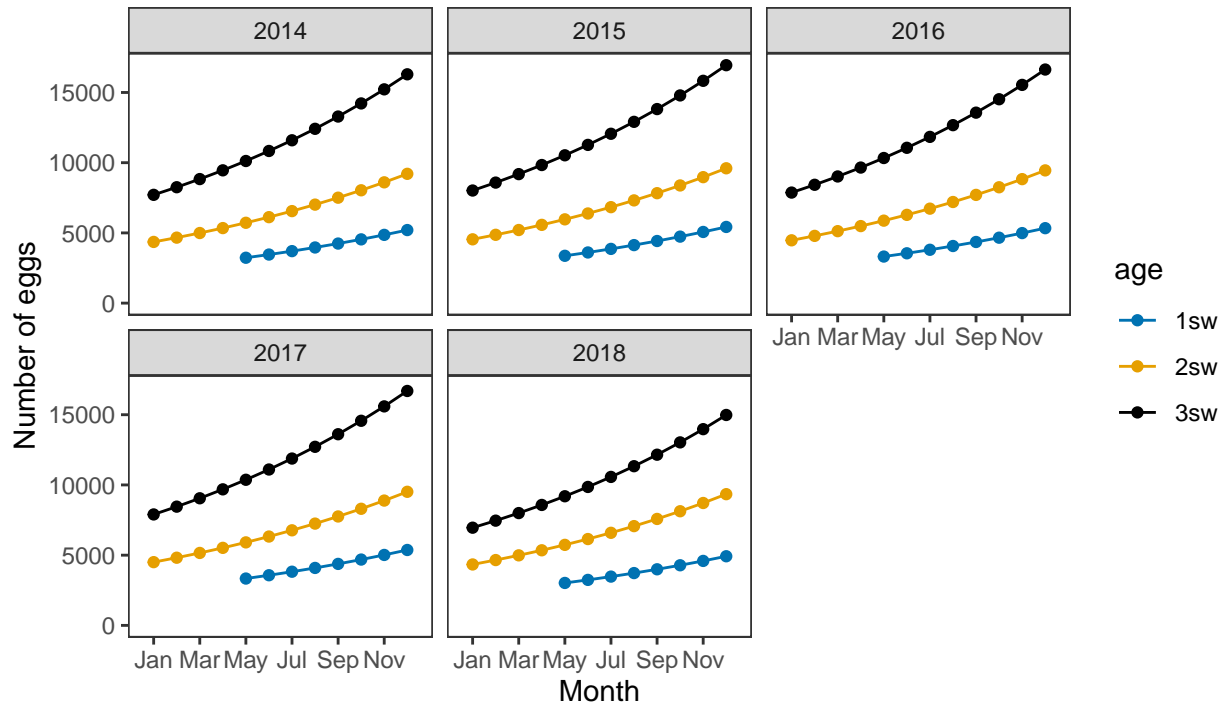Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

2. Converting Numbers of Returning Salmon to Numbers of Spawning Females
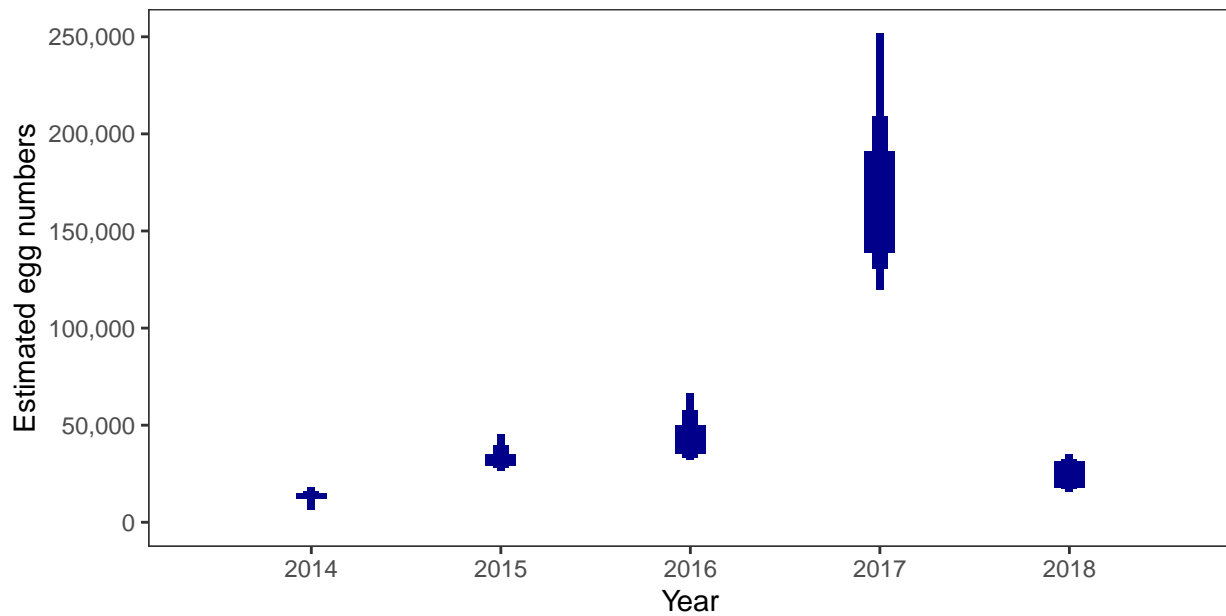
Ages of fish
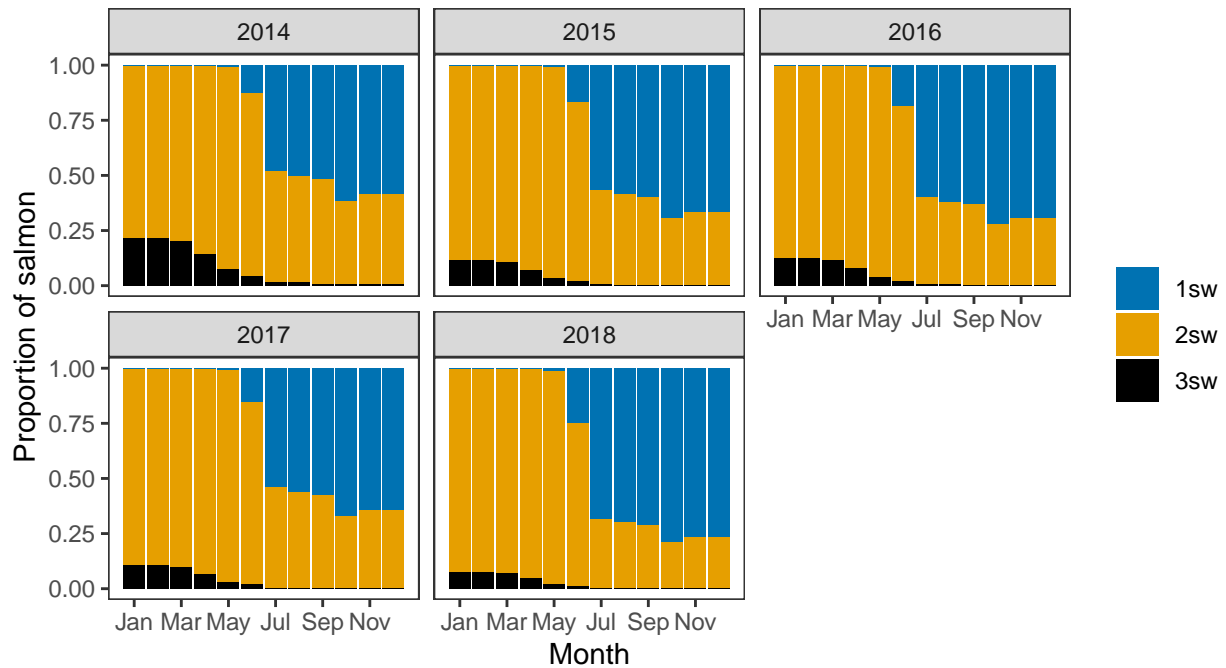
3. Converting Number of Spawners to Number of Eggs

Egg contents of females

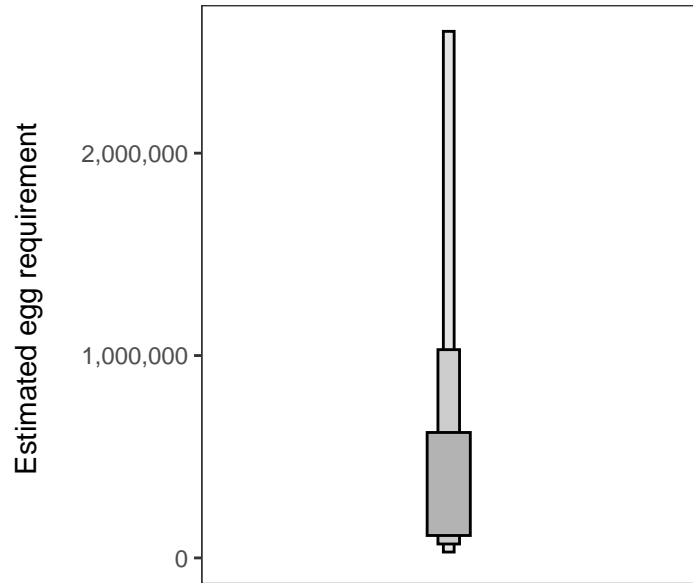

Total annual egg numbers

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

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.
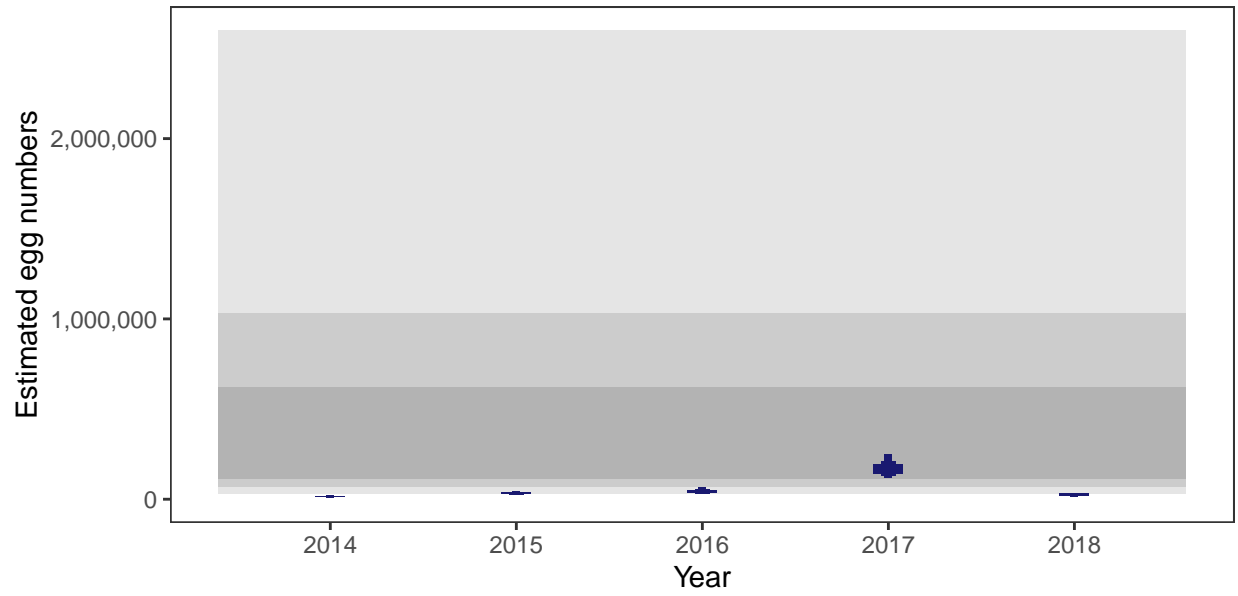
Egg requirement

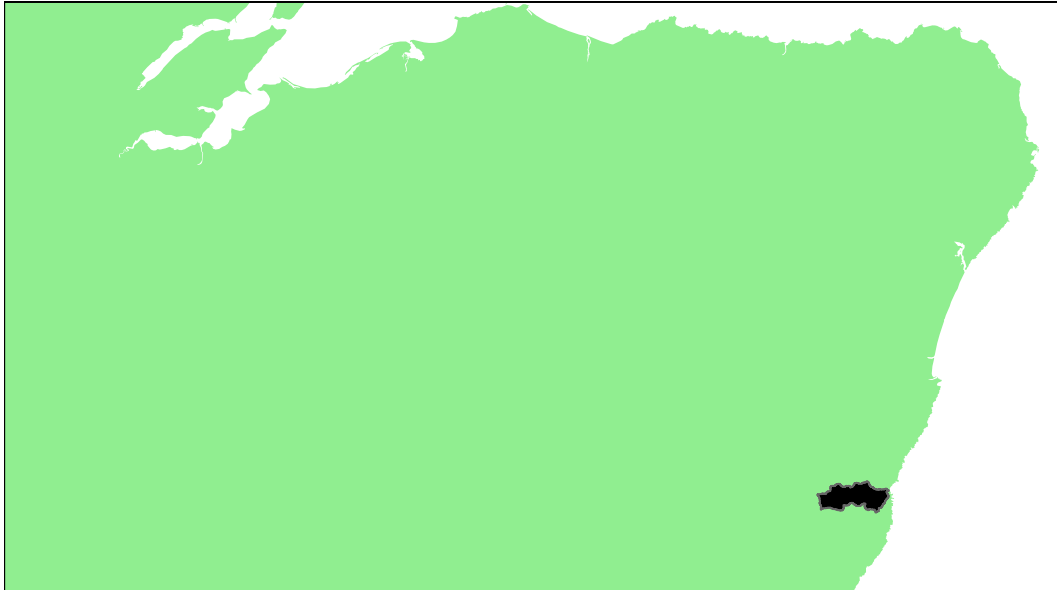Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	1.83
2015	6.16
2016	8.93
2017	36.76
2018	4.02

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)
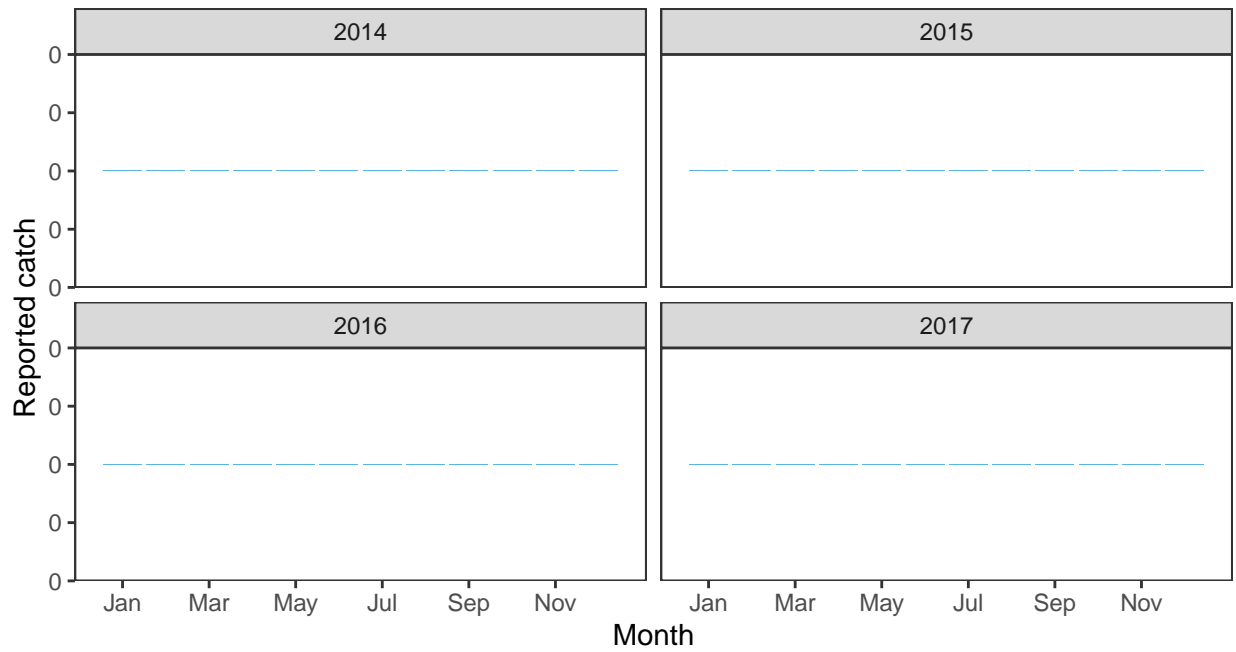
Carron Water: Grade 3

Summary Table

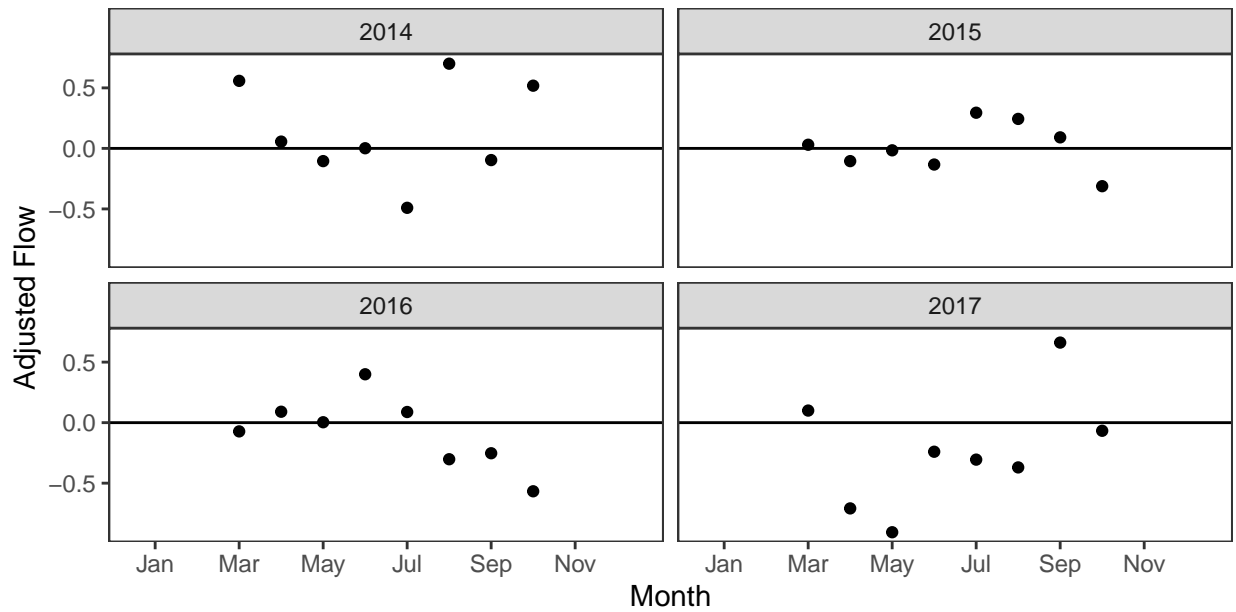| Eggs required $(m^2)^a$ | Area $(m^2)^a$ | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
			2014	2015	2016	2017	2018	Overall	
2.68	57,300	153,358	0	0	0	0	0	0	3

[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon
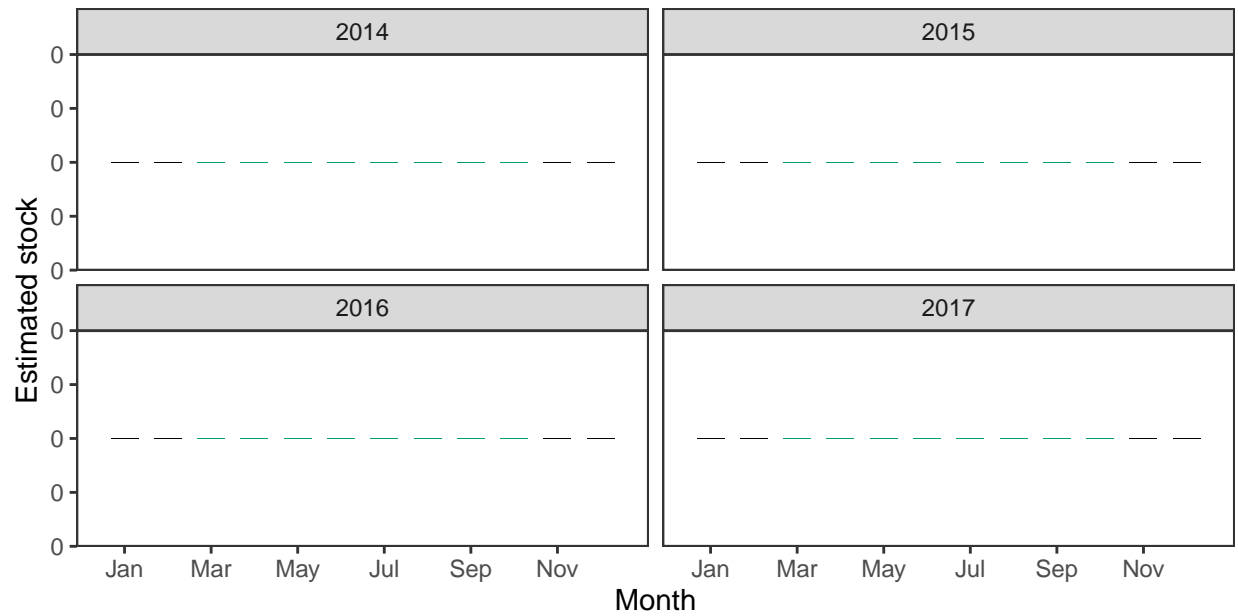
Reported Catches (black = retained, blue = released)
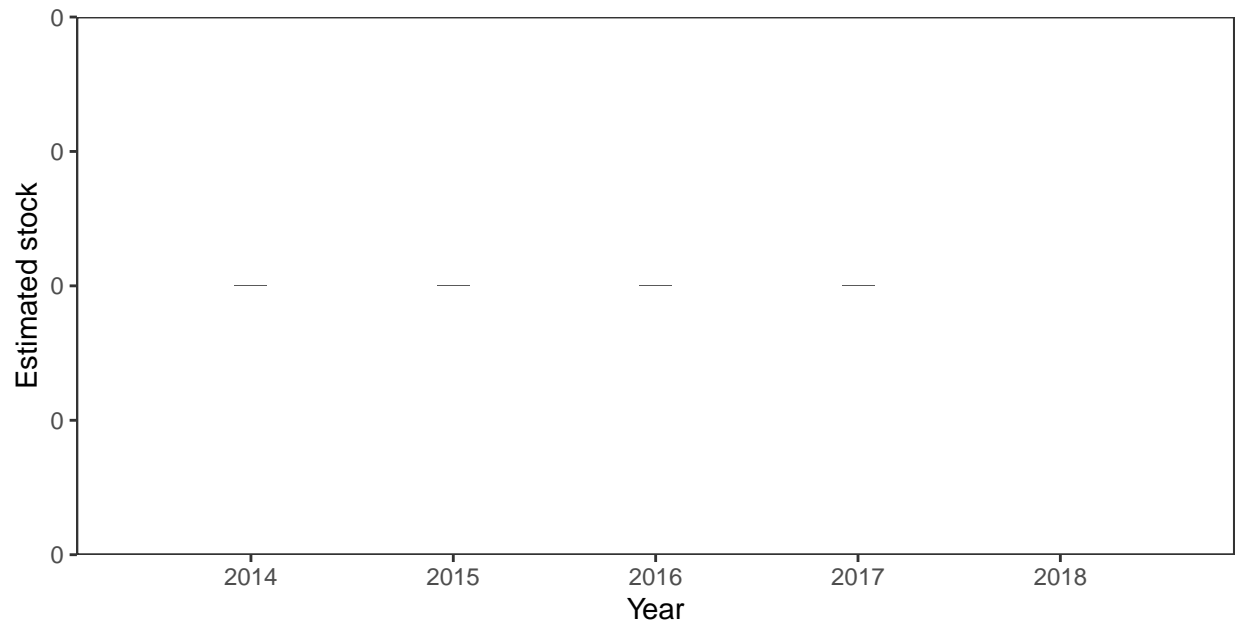

Monthly flow data

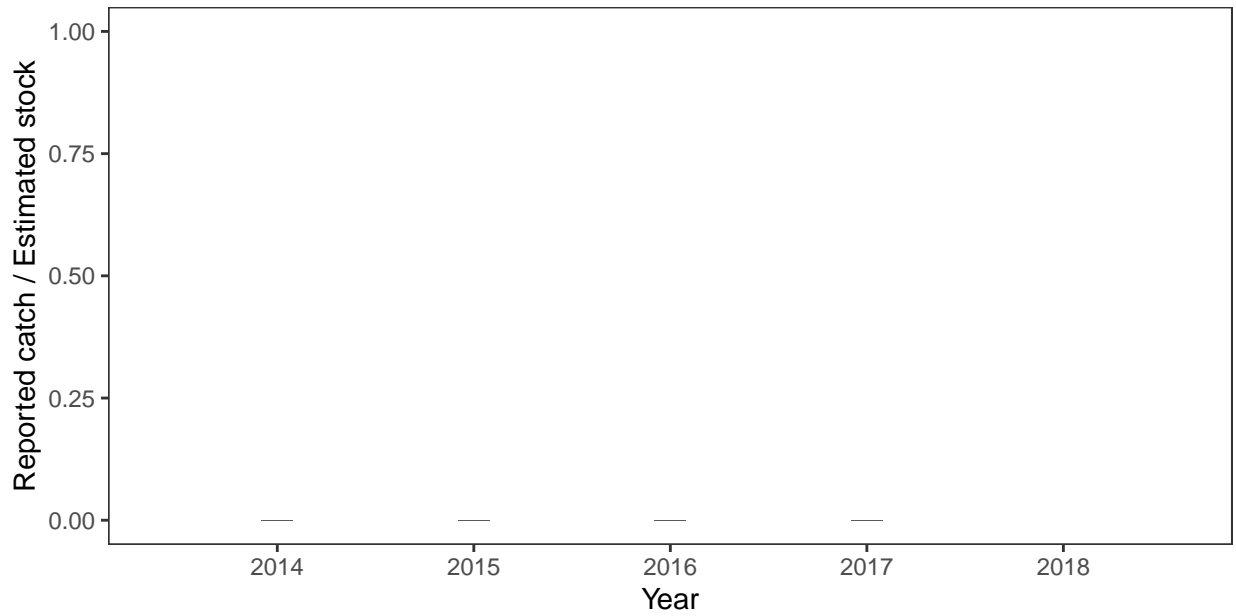*Monthly stock estimates (out of season in black)*

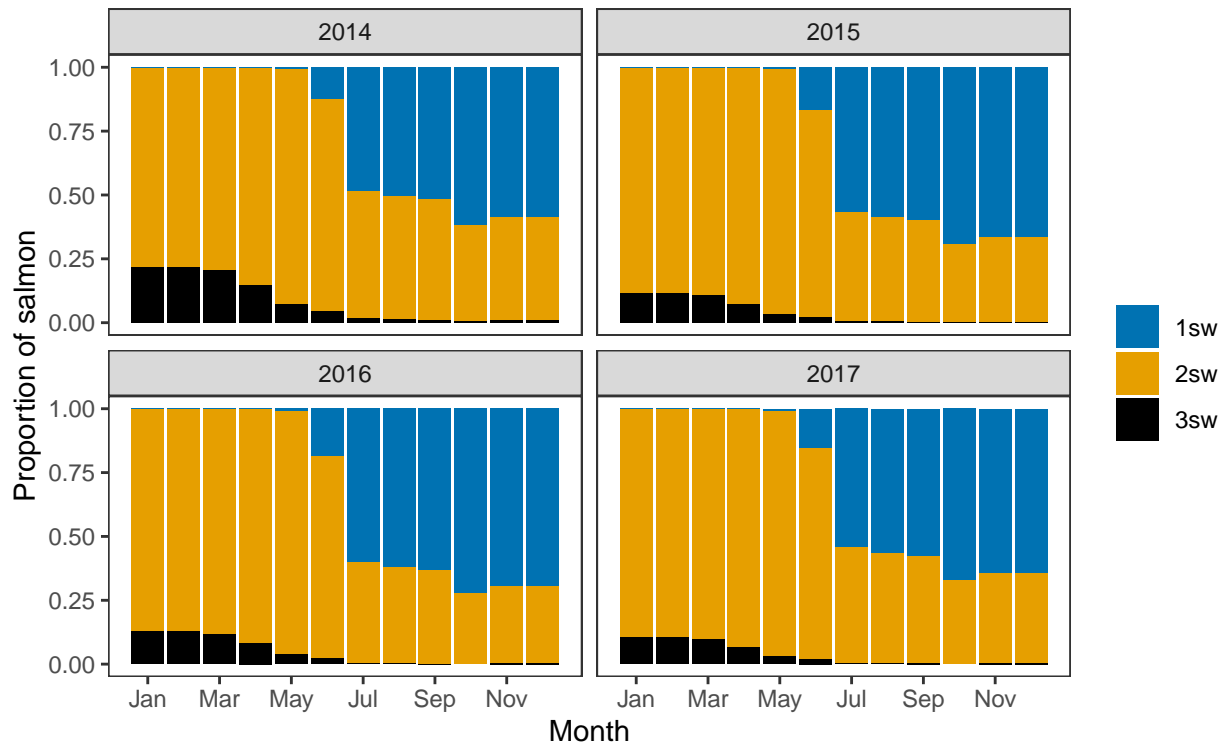Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).
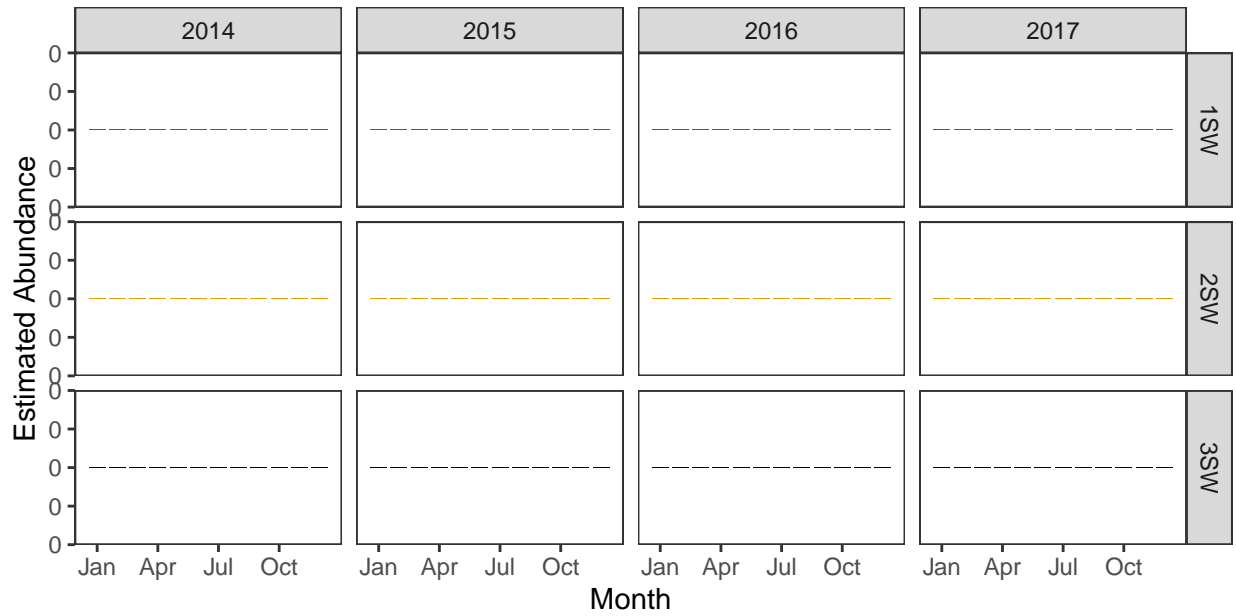
Annual catch as a proportion of stock

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

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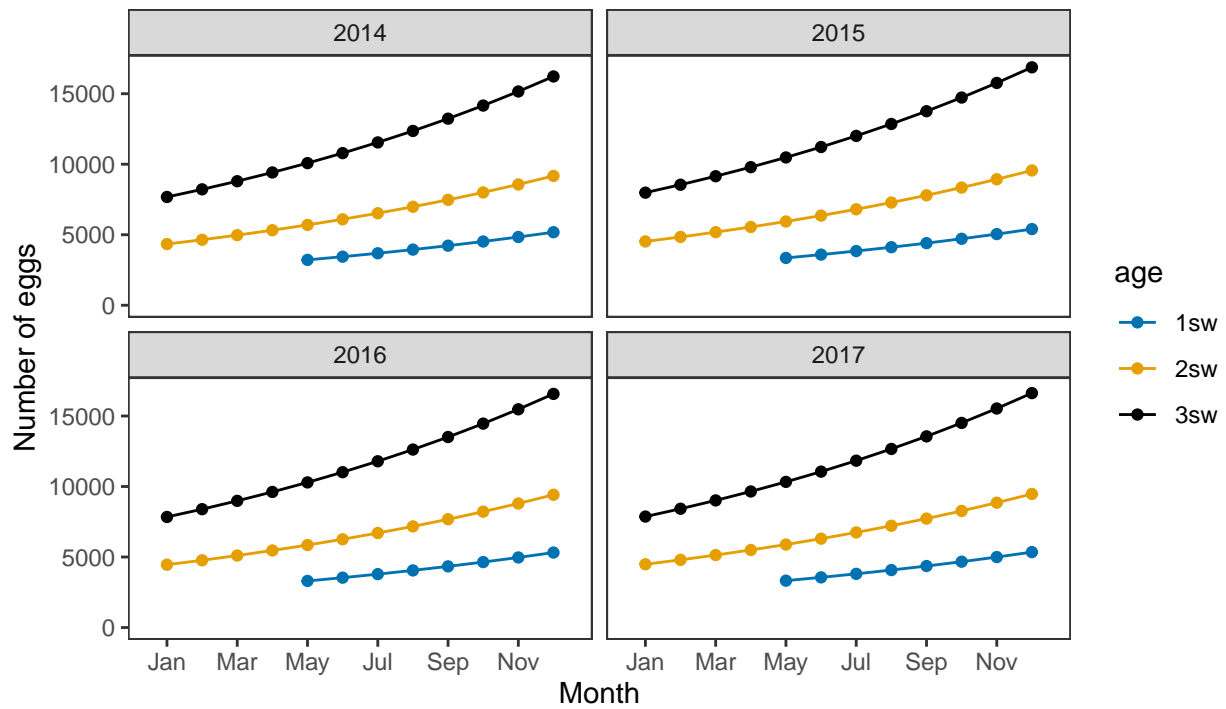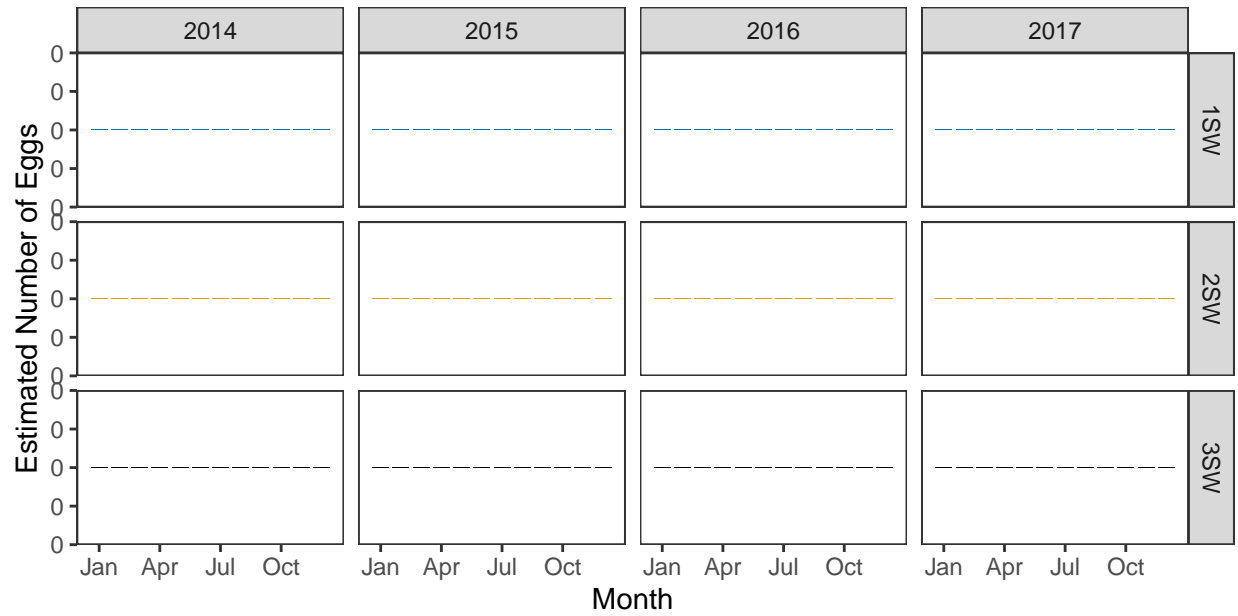
Ages of fish

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
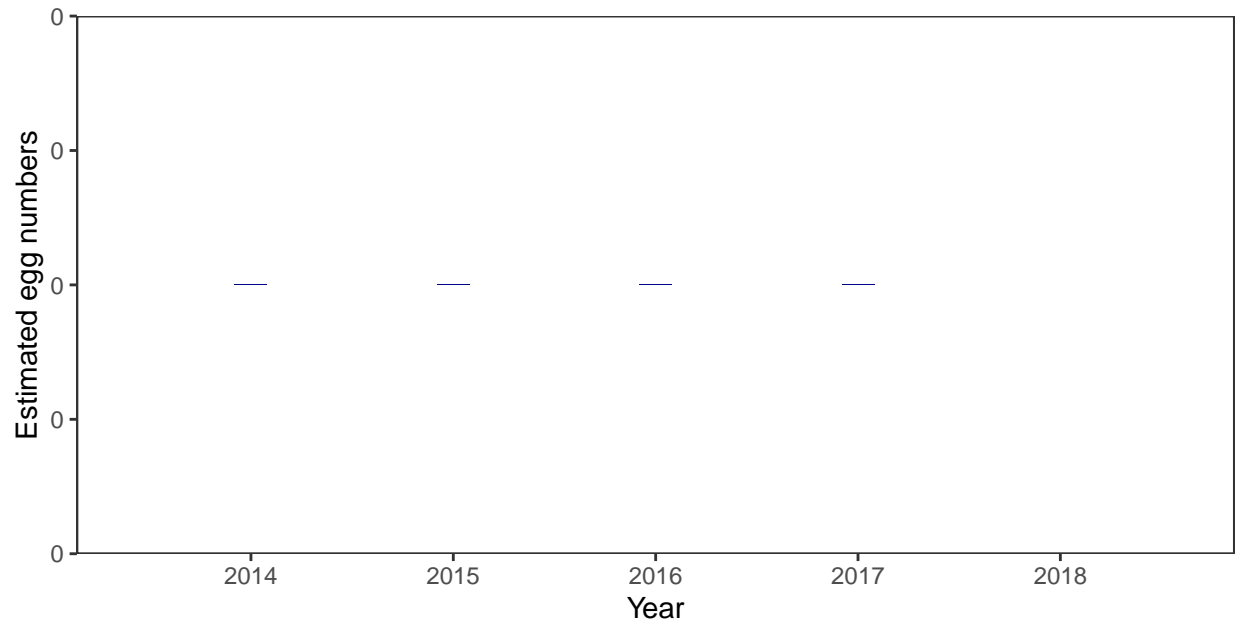
Egg contents of females

Monthly number of eggs

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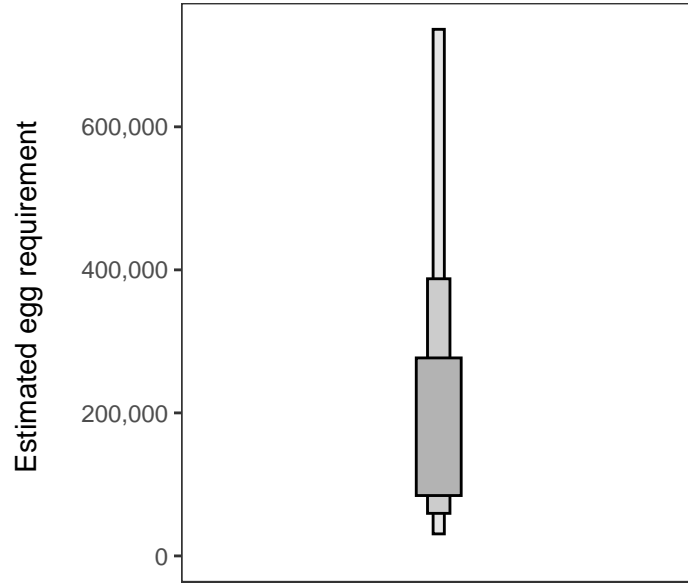
Total annual egg numbers

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

4. Egg requirement

Areas of salmon habitat in square meters

There is an estimated 48,140 square meters of known salmon habitat in the Carron Water and a further 16,935 square meters where salmon may be present.
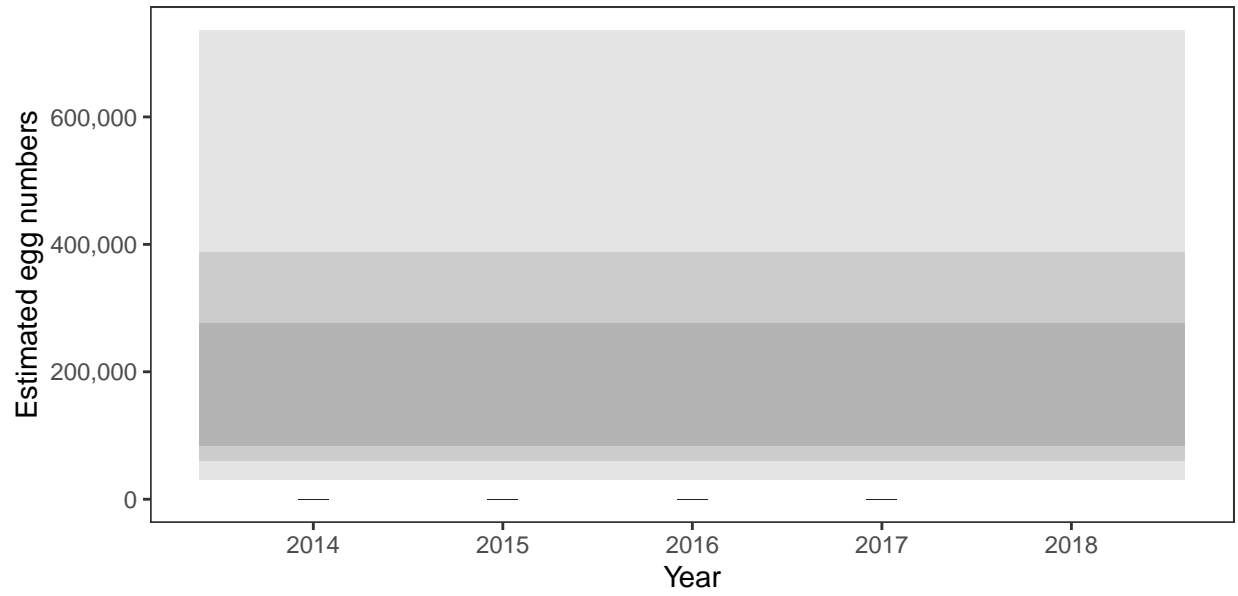
Egg requirement

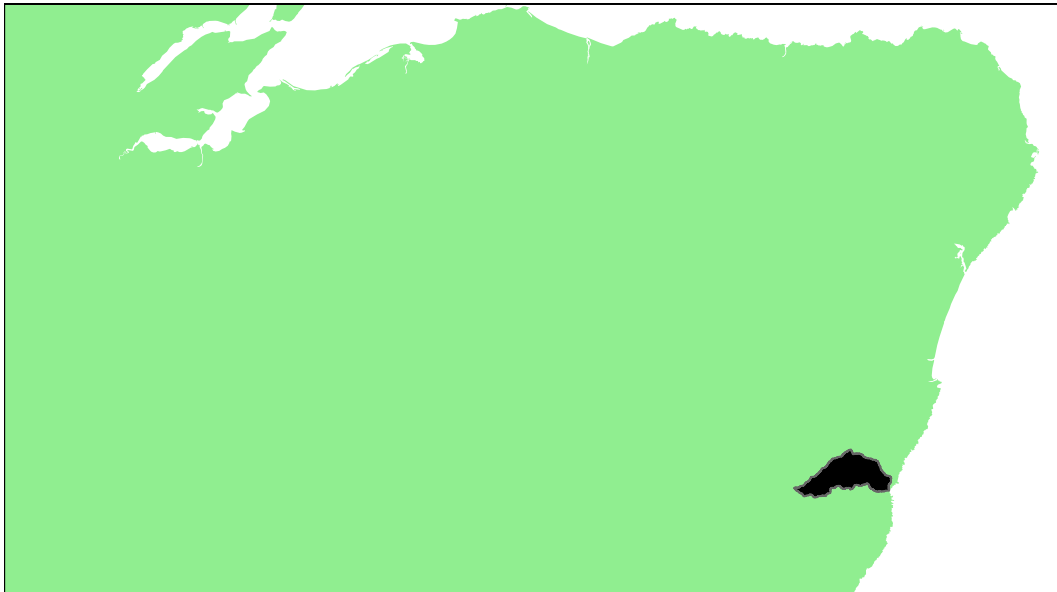Plot shows 50, 70 and 90% of the
estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	-
2015	-
2016	-
2017	-
2018	-

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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)
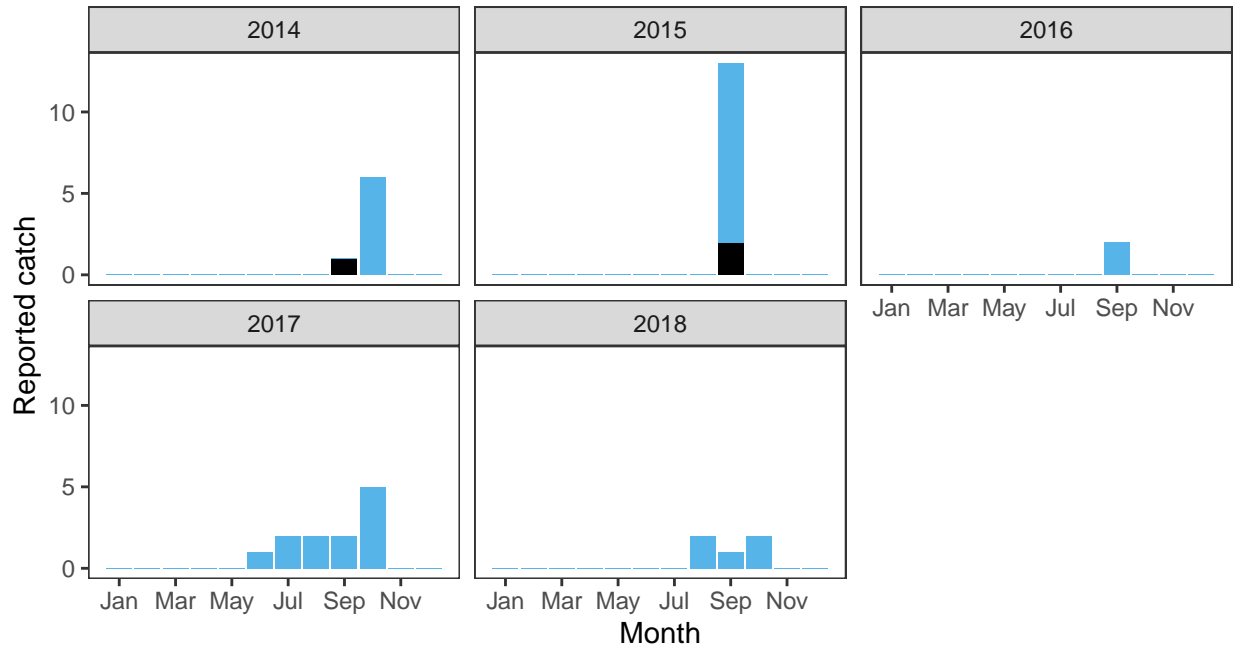
Cowie Water: Grade 3

Summary Table

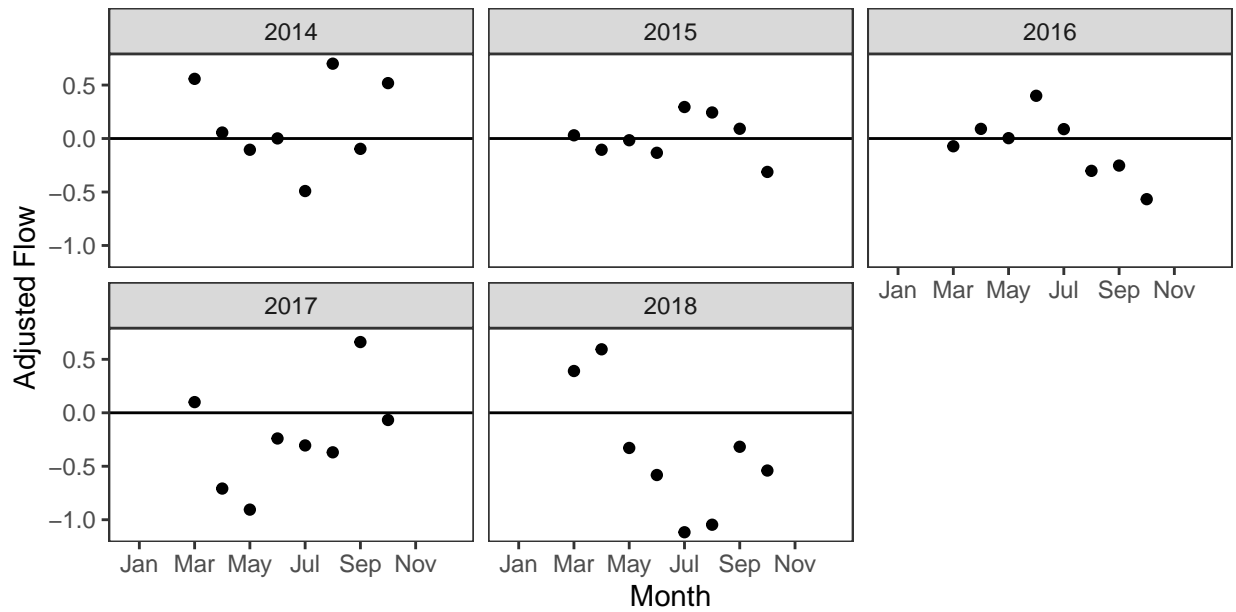| Eggs required (m²)ᵃ	Area (m²)ᵃ	Total egg requirementᵃ	Percentage chance meeting requirement						Grade
			2014	2015	2016	2017	2018	Overall	
3.07	127,300	391,018	3.97	16.8	0.81	33.05	6.43	12.21	3

ᵃ Figures presented are median values

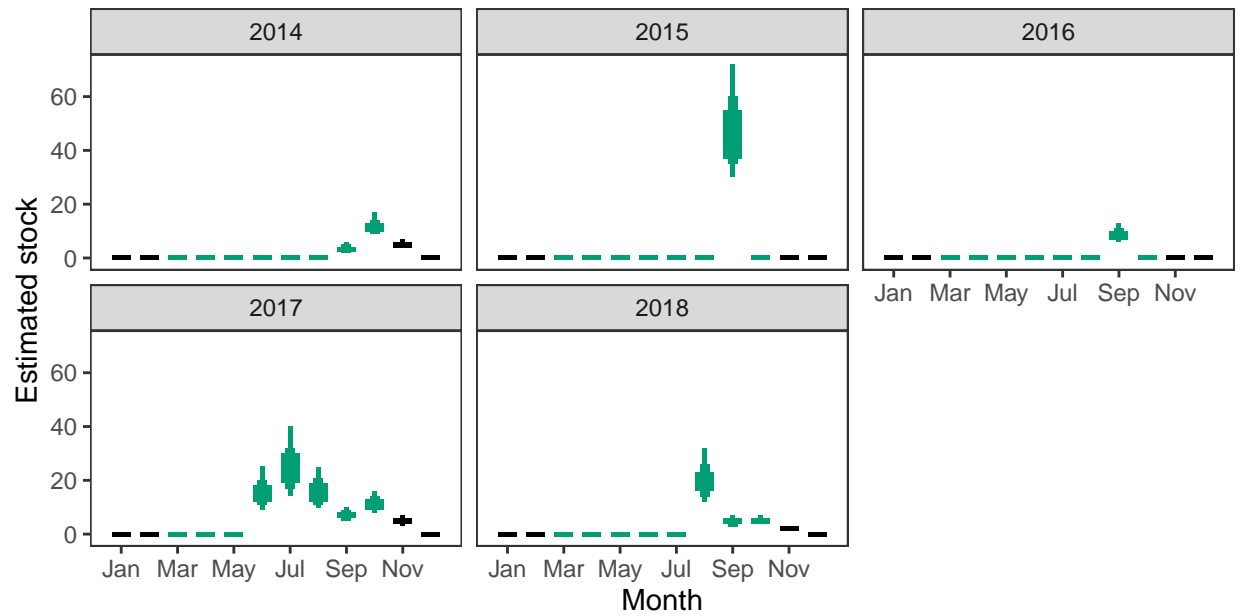# 1. Converting Reported Catches to Numbers of Returning Salmon

Reported Catches (black = retained, blue = released)
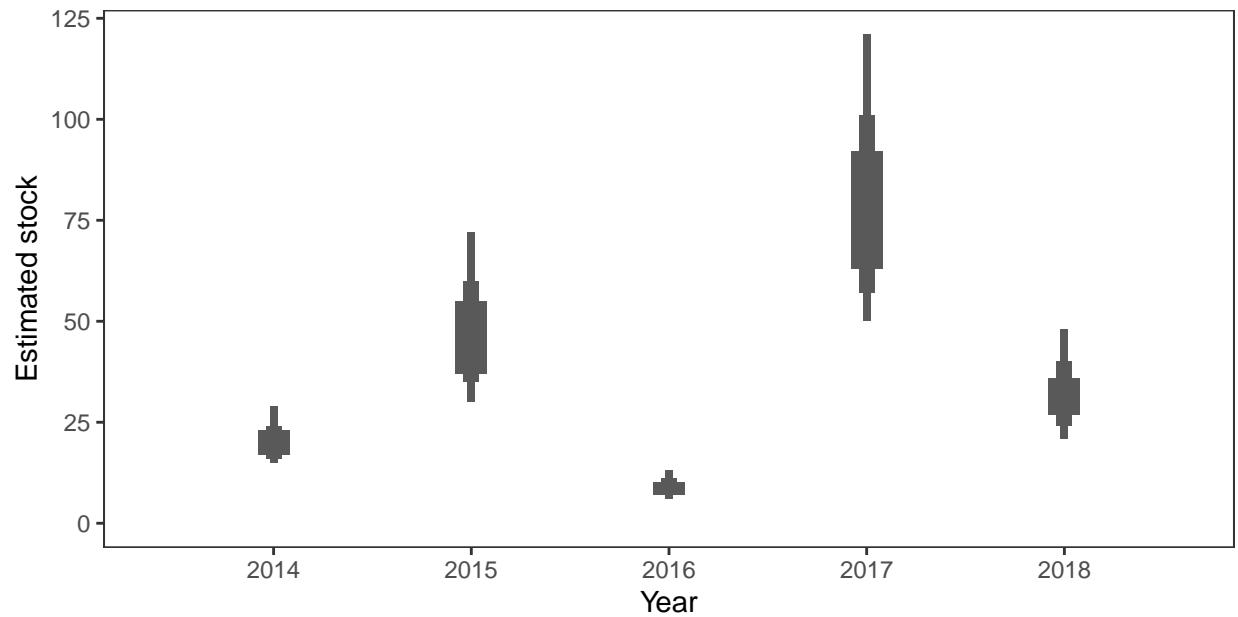

Monthly flow data

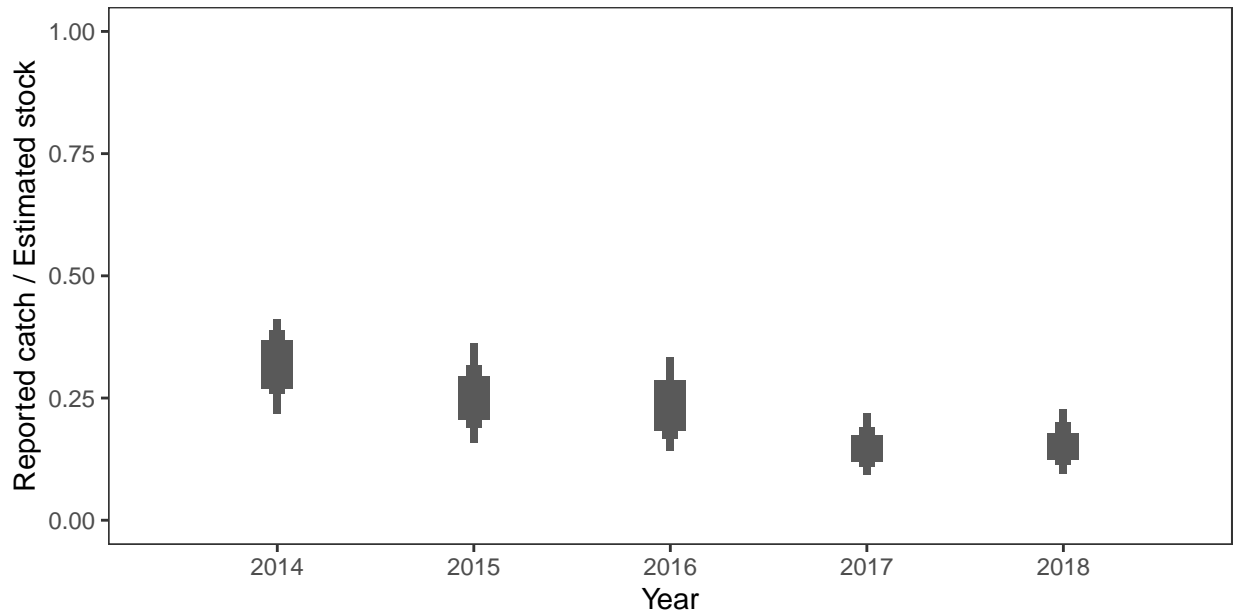## Monthly stock estimates (out of season in black)

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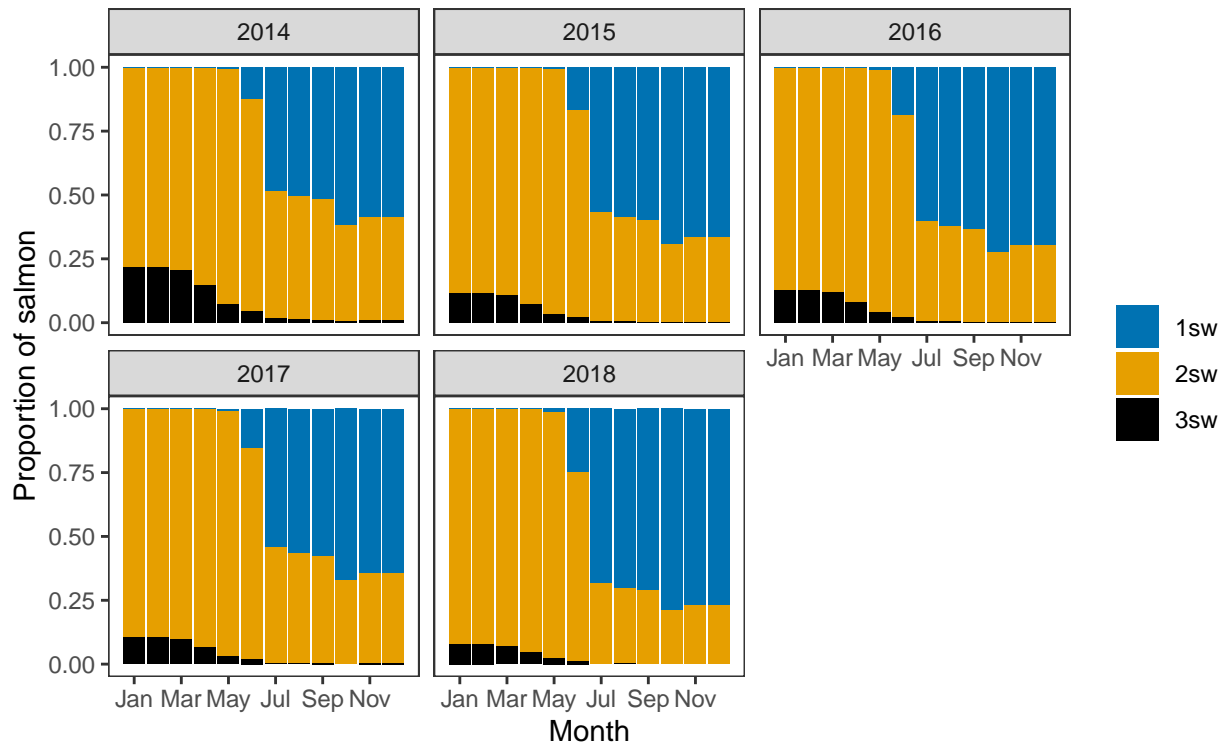
Annual estimated stock

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

Annual catch as a proportion of stock

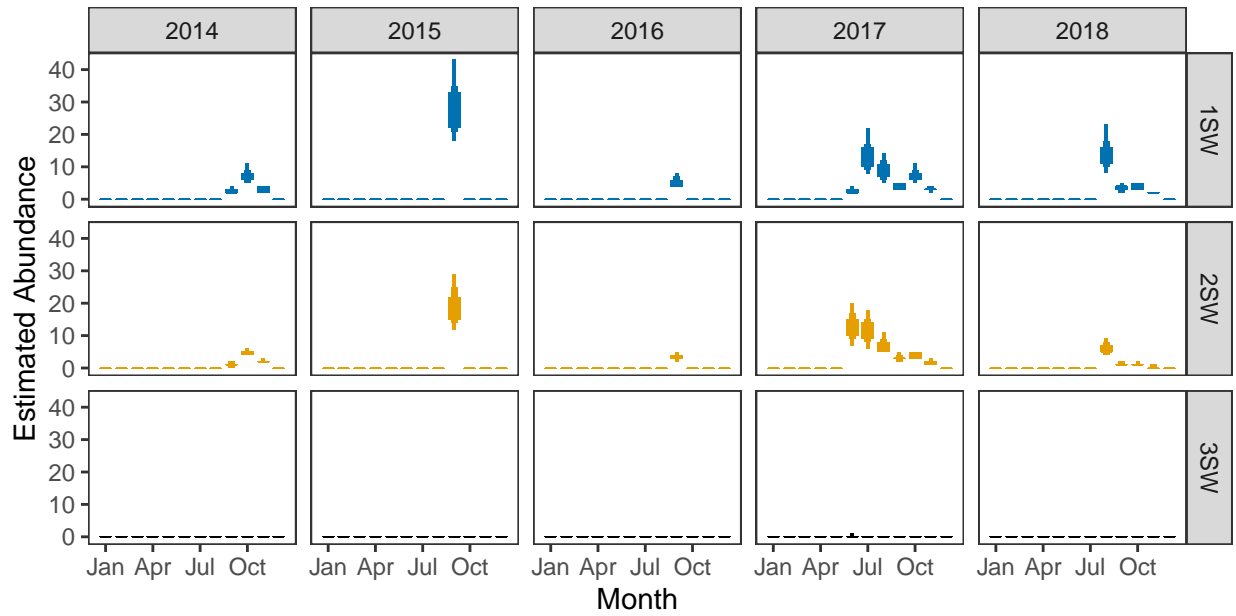Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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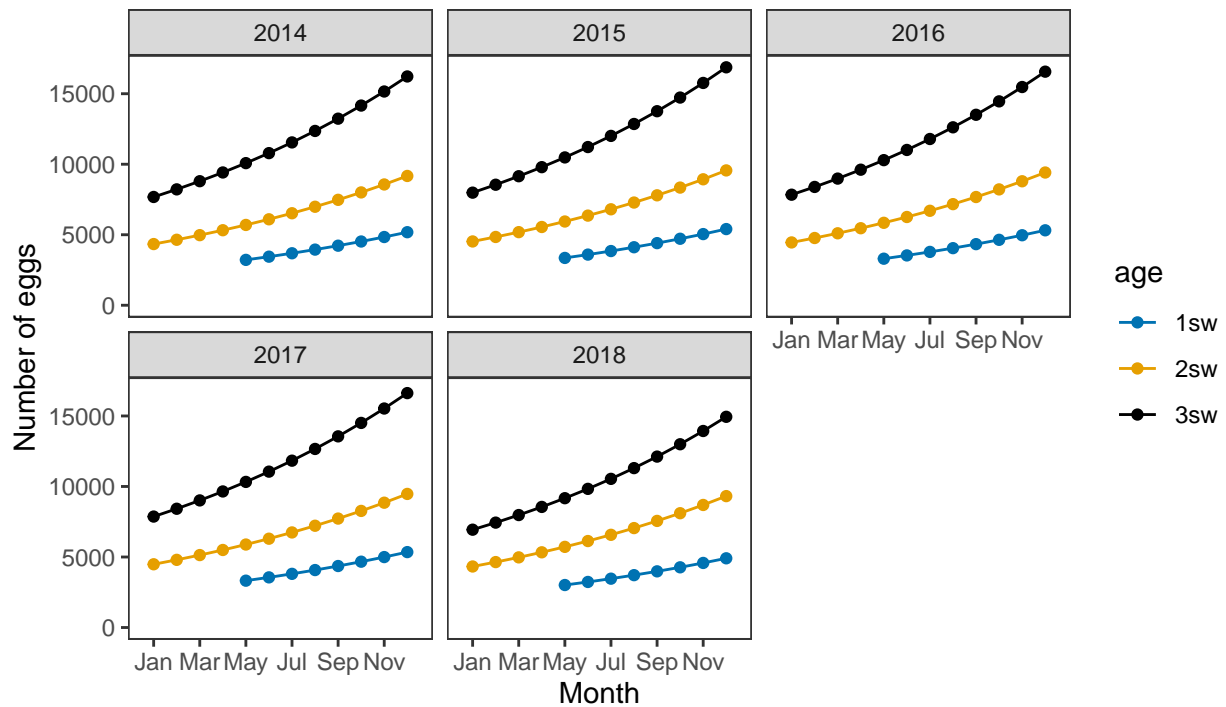
Ages of fish

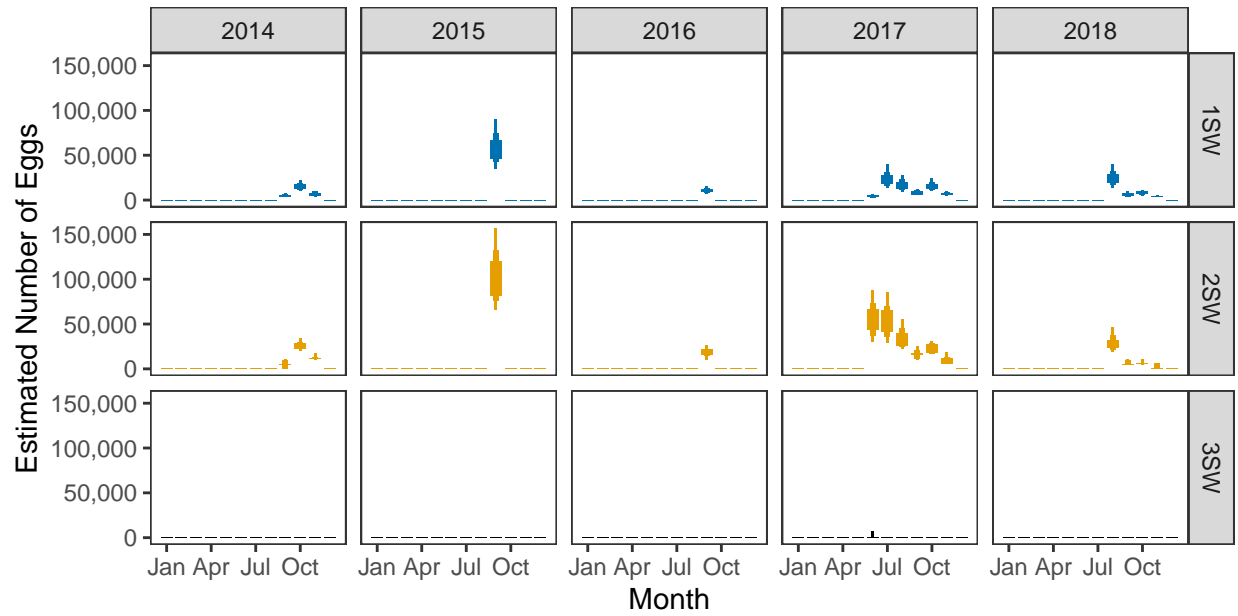*Monthly number of spawning females*

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

3. Converting Number of Spawners to Number of Eggs

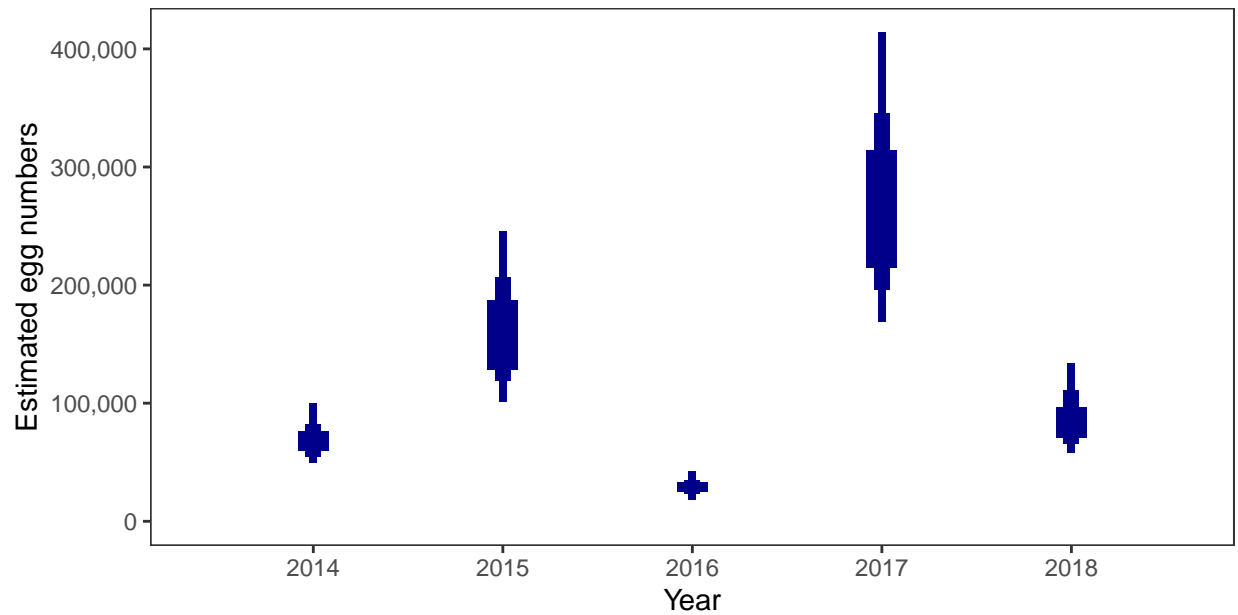*Egg contents of females*

Monthly number of eggs

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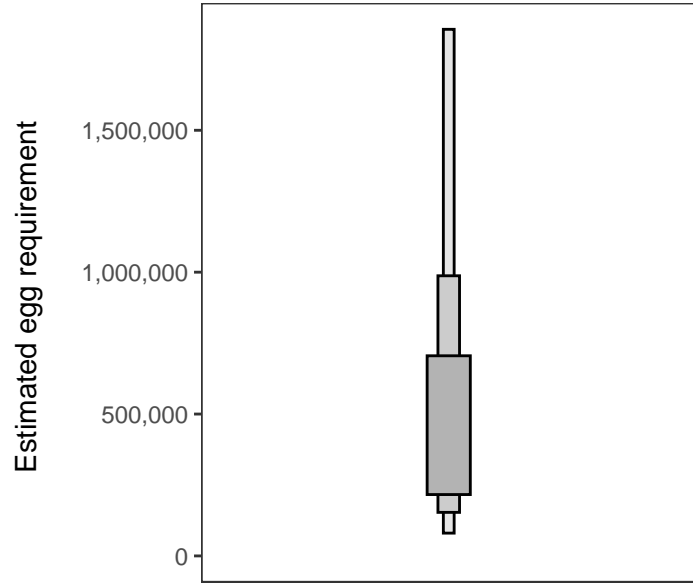
Total annual egg numbers

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

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.
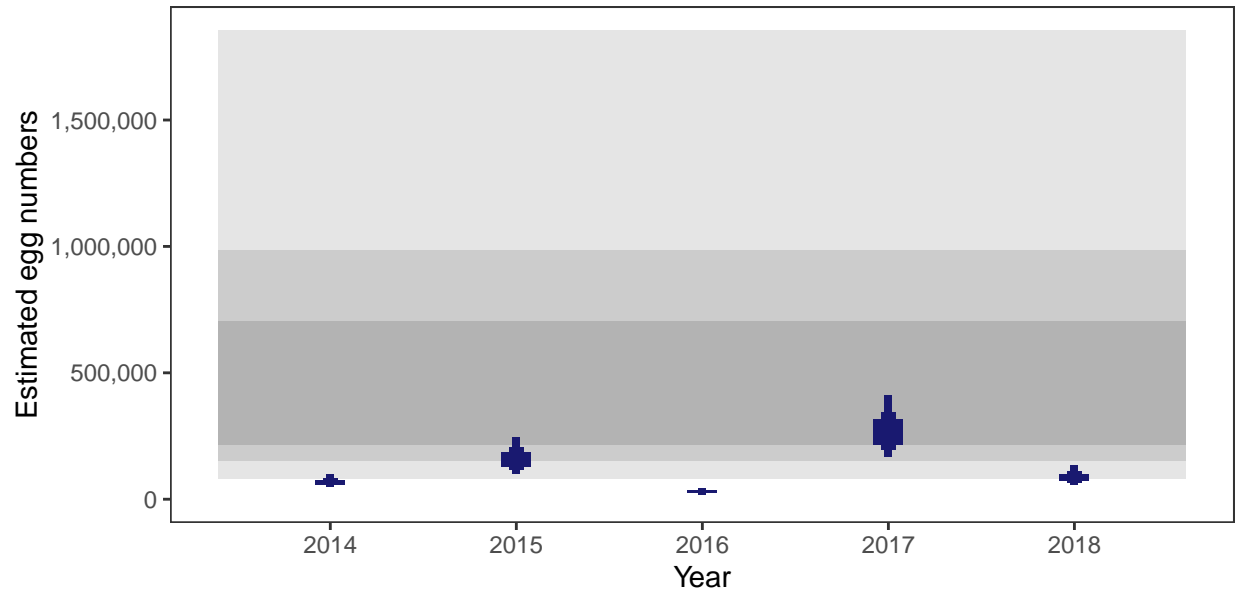
Egg requirement

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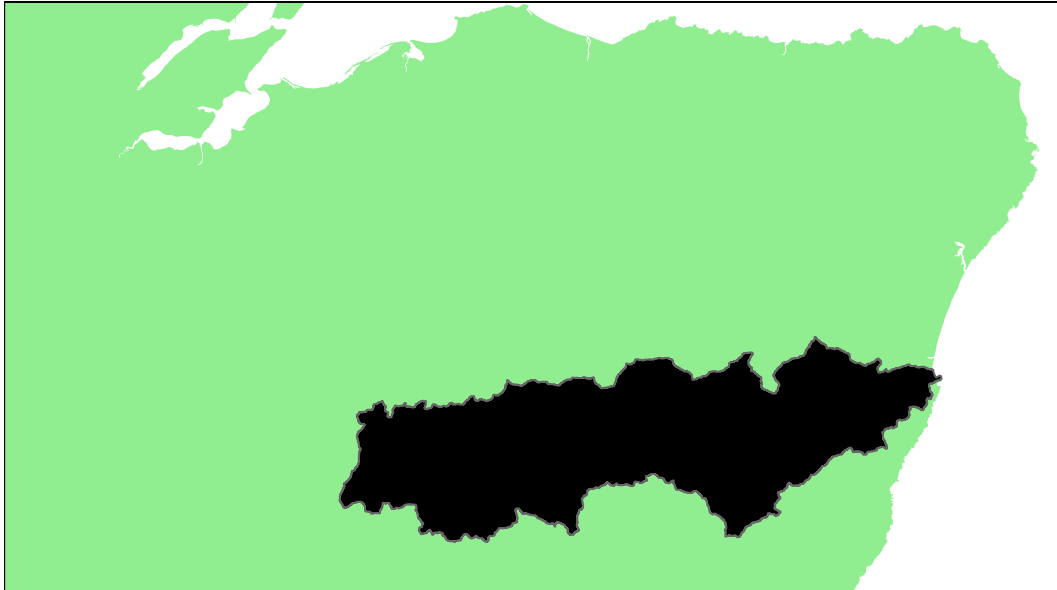estimates (wide to narrow bars).

5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	3.97
2015	16.80
2016	0.81
2017	33.05
2018	6.43

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)
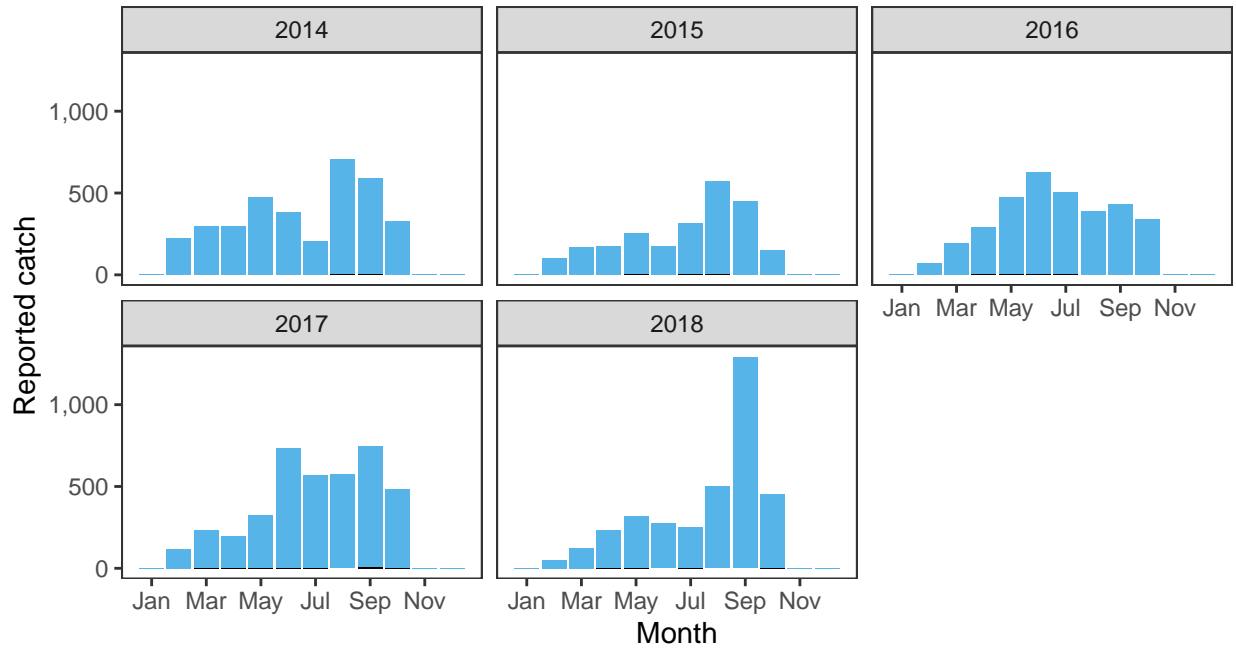
River Dee SAC: Grade 1

Summary Table

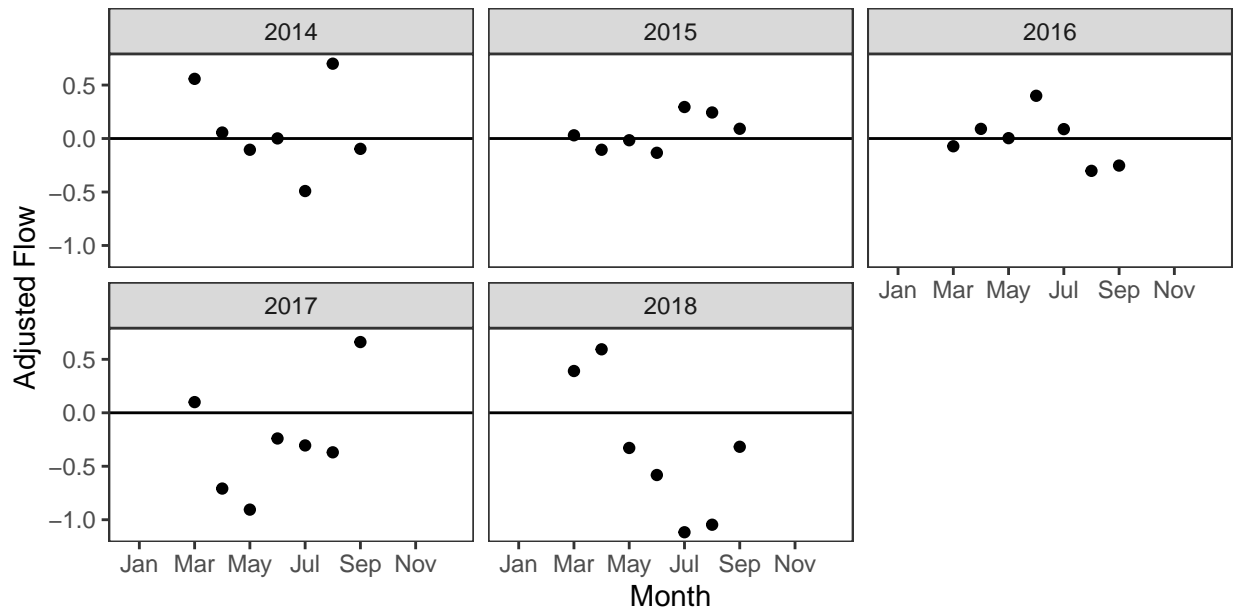| Eggs required (m^2)[a] | Area (m^2)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
			2014	2015	2016	2017	2018	Overall	
3.05	9,261,200	28,215,587	91.86	82.07	91.29	93.76	89.64	89.72	1

[a] Figures presented are median values

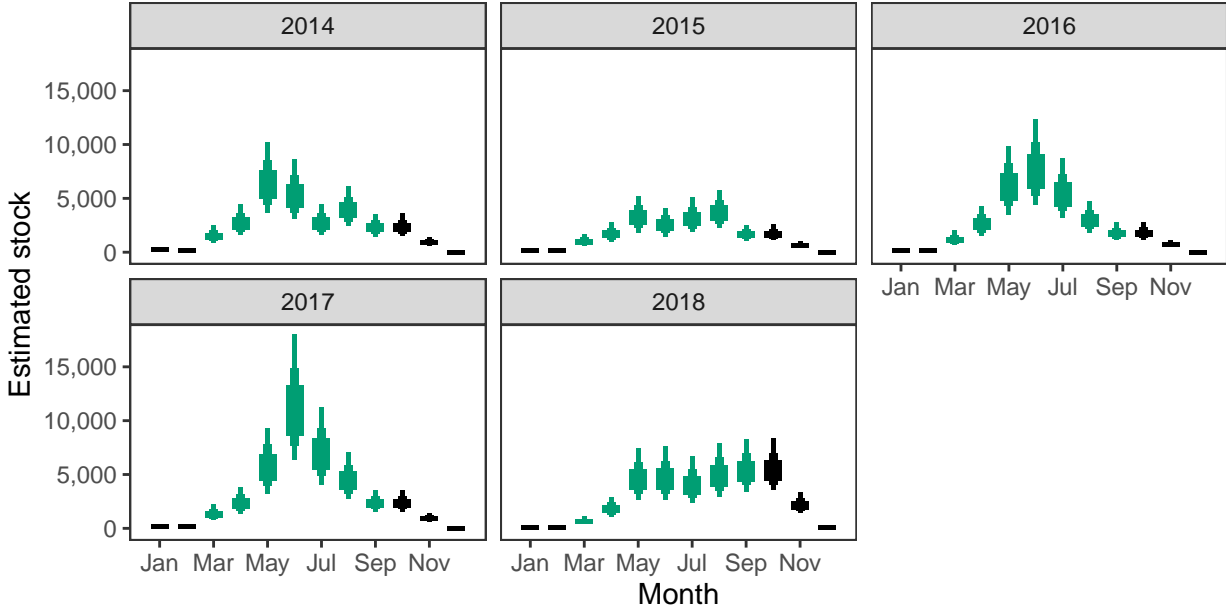# 1. Converting Reported Catches to Numbers of Returning Salmon

Reported Catches (black = retained, blue = released)
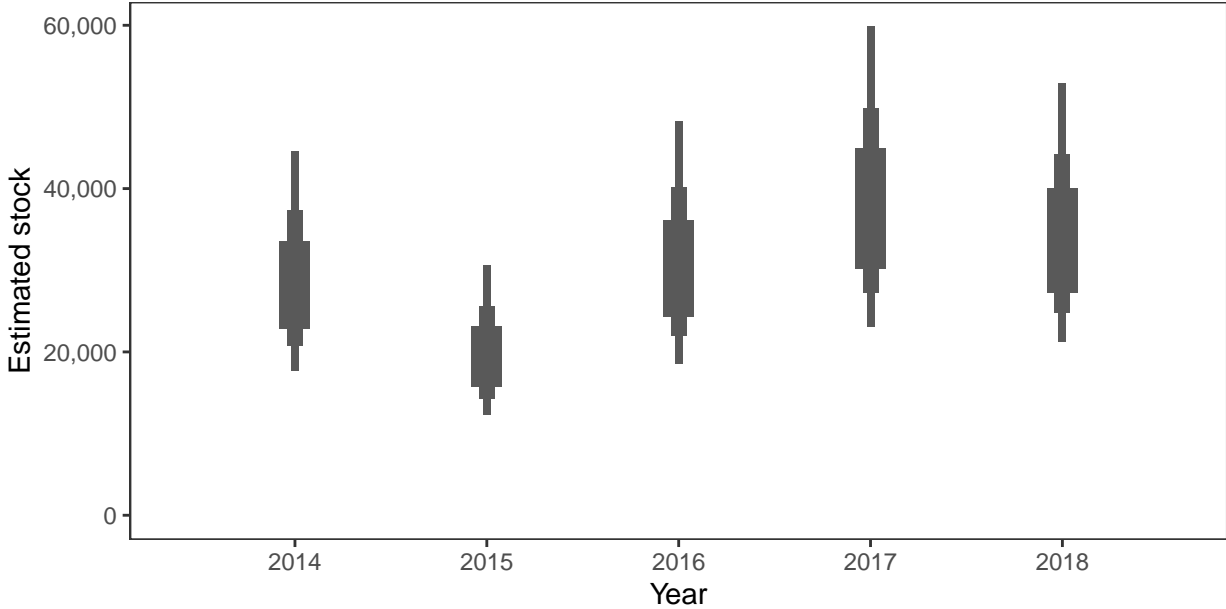

Monthly flow data

Monthly stock estimates (out of season in black)
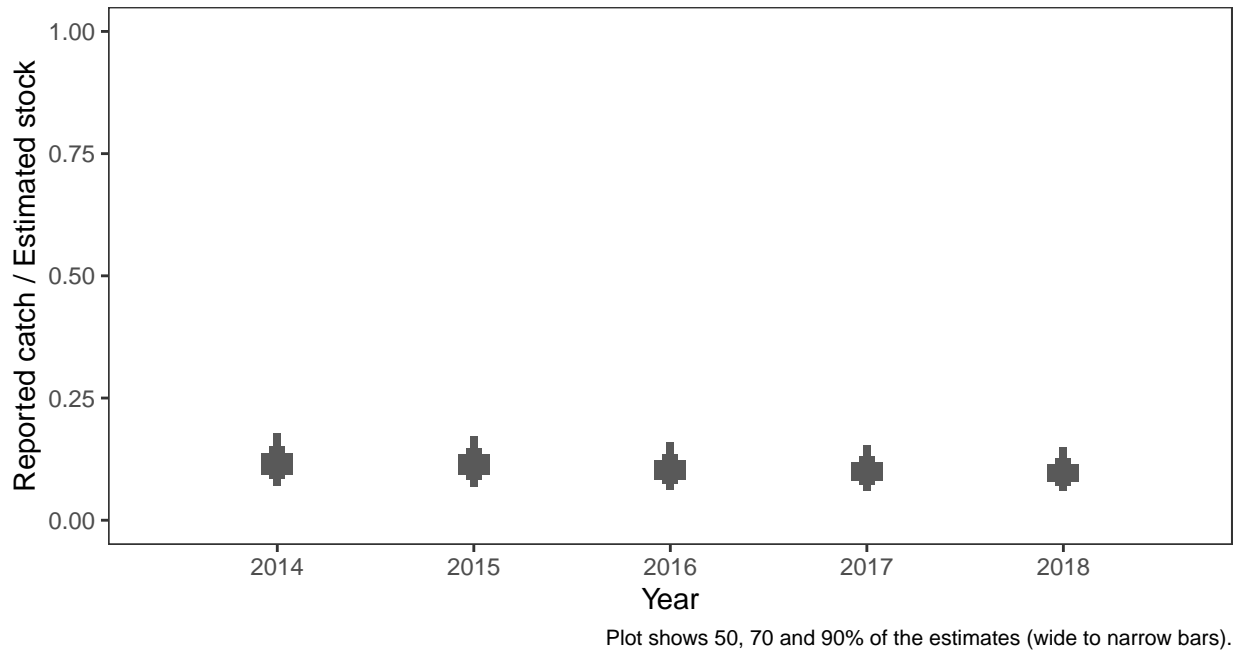

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).
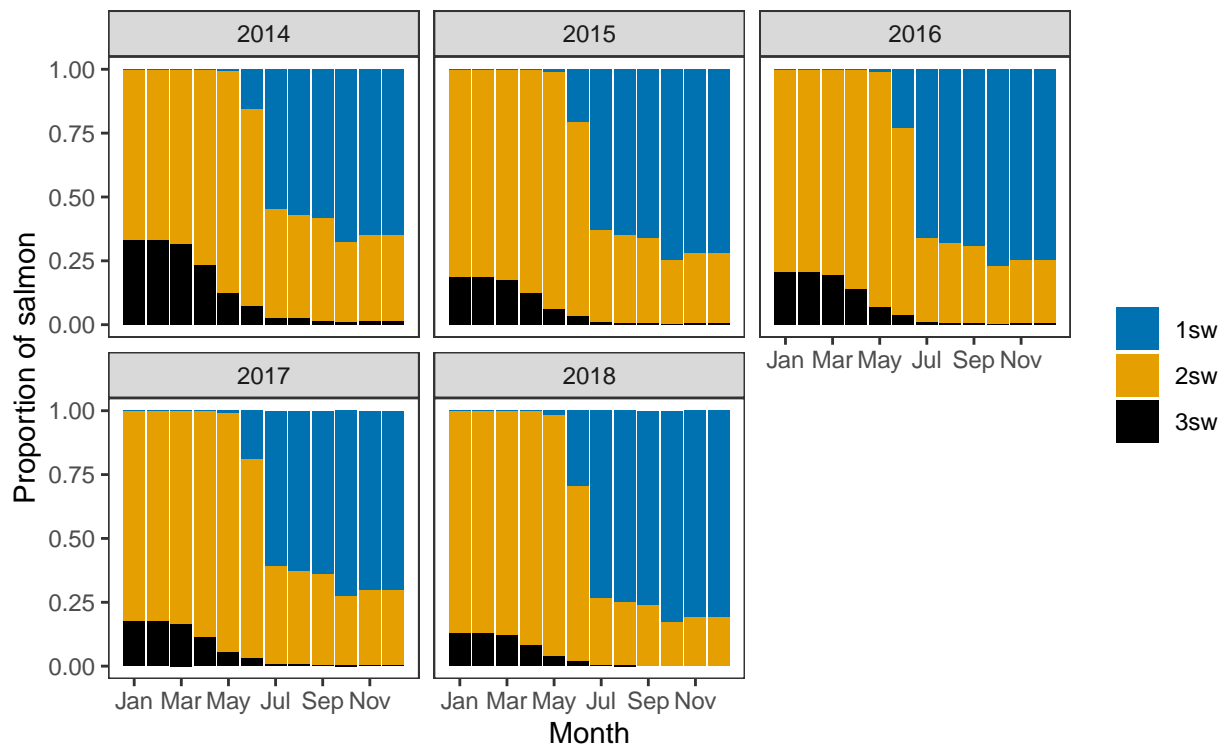
Annual estimated stock

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).
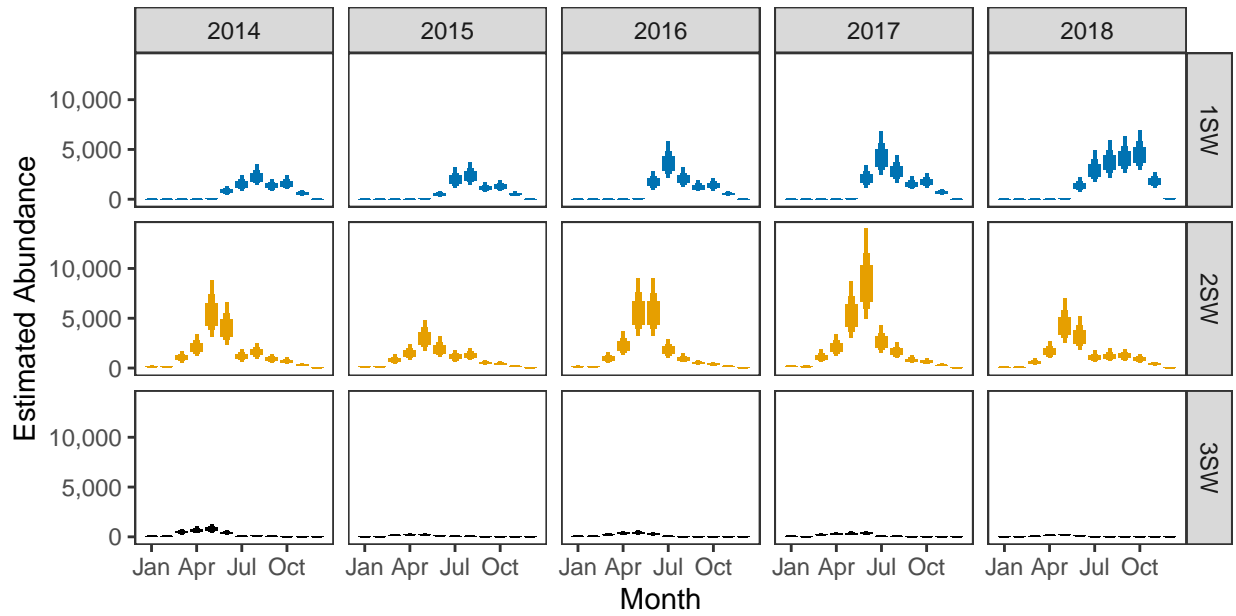
Annual catch as a proportion of stock

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

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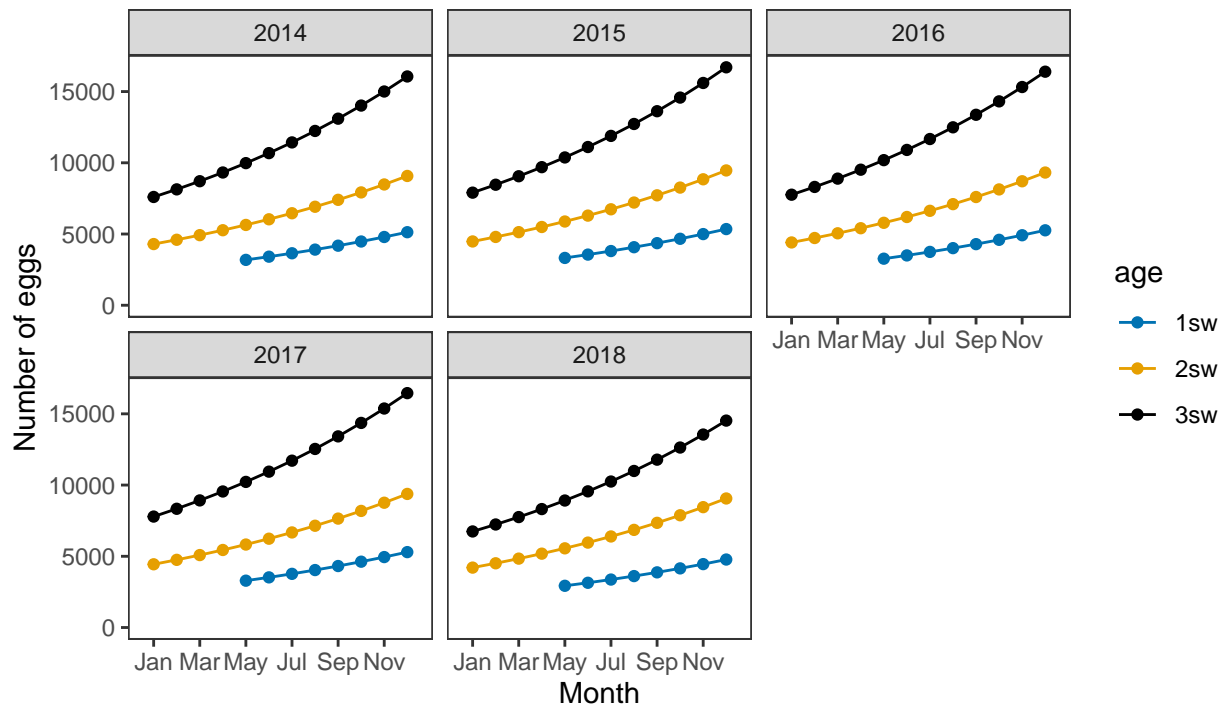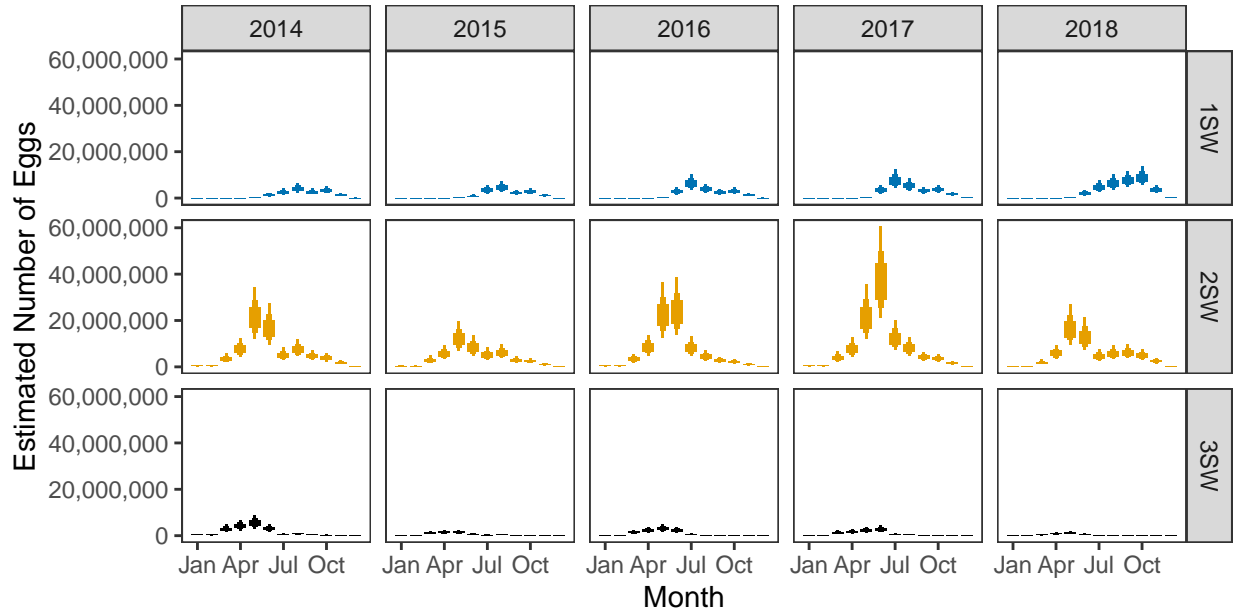
Ages of fish

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

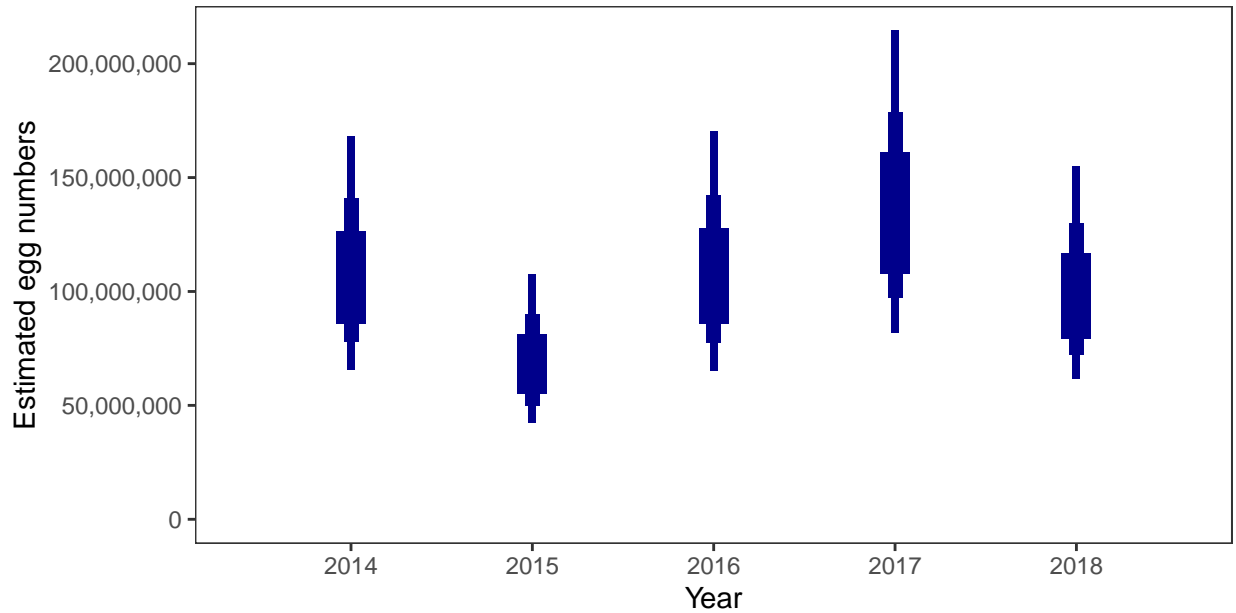*Egg contents of females*

Monthly number of eggs

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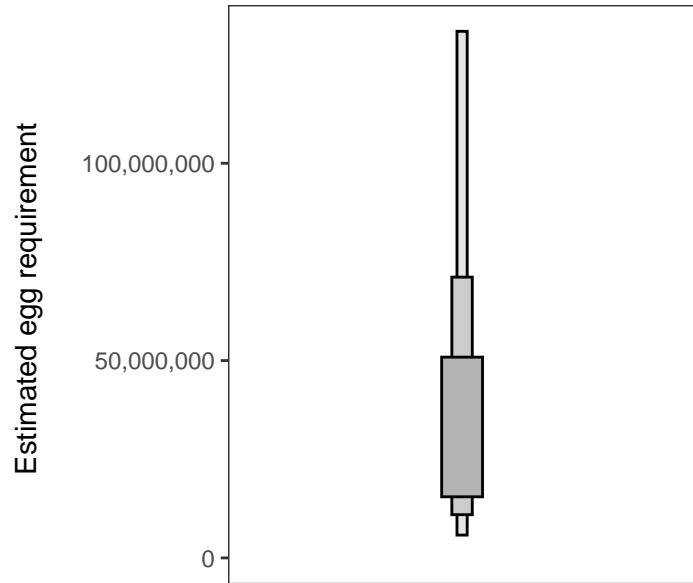
Total annual egg numbers

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

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.
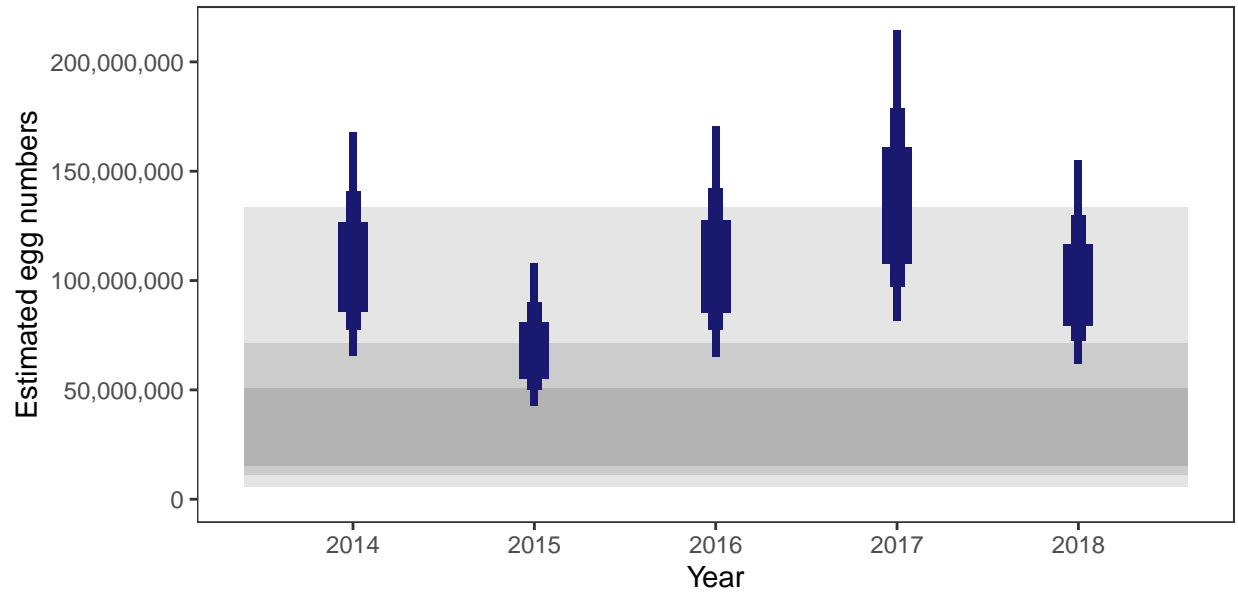
Egg requirement

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

5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	91.86
2015	82.07
2016	91.29
2017	93.76
2018	89.64

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)
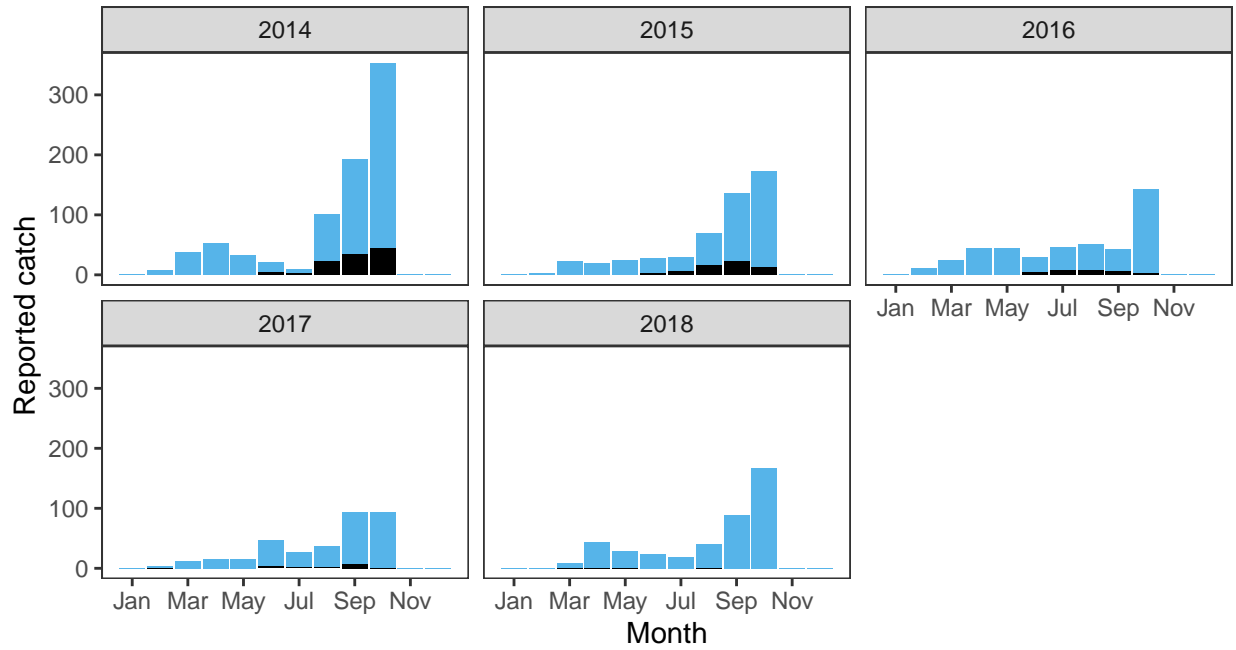
River Don: Grade 3

Summary Table

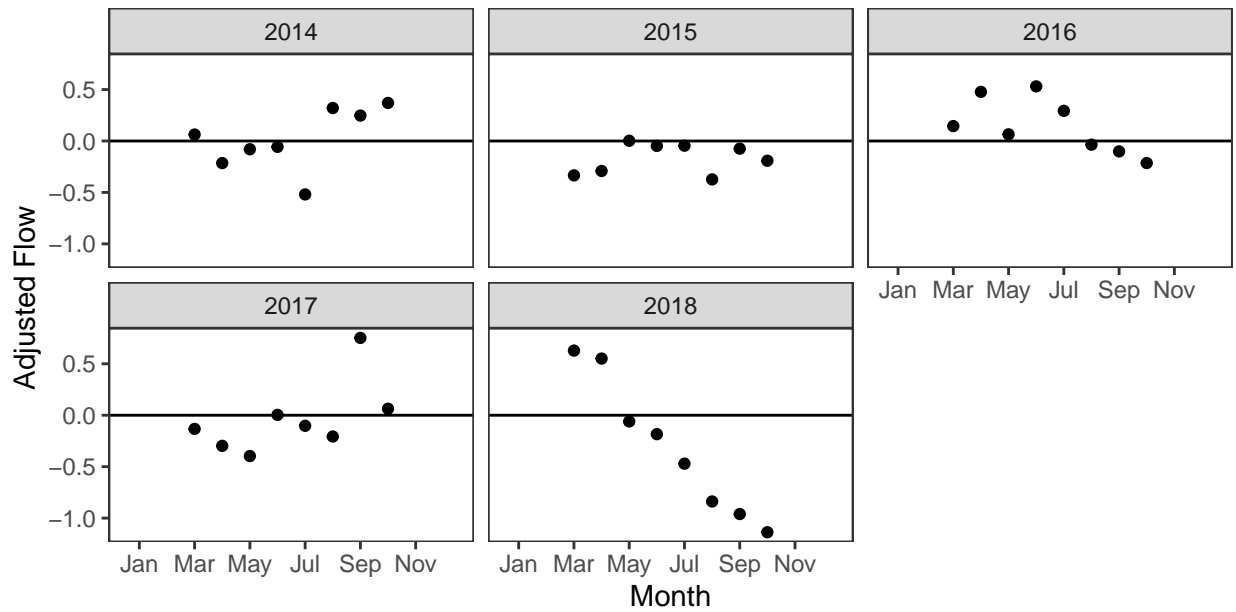| Eggs required (m²)ᵃ	Area (m²)ᵃ	Total egg requirementᵃ	Percentage chance meeting requirement						
			2014	2015	2016	2017	2018	Overall	Grade
2.32	4,112,800	9,560,190	65.5	53.68	51.6	42.95	46.01	51.95	3

ᵃ Figures presented are median values

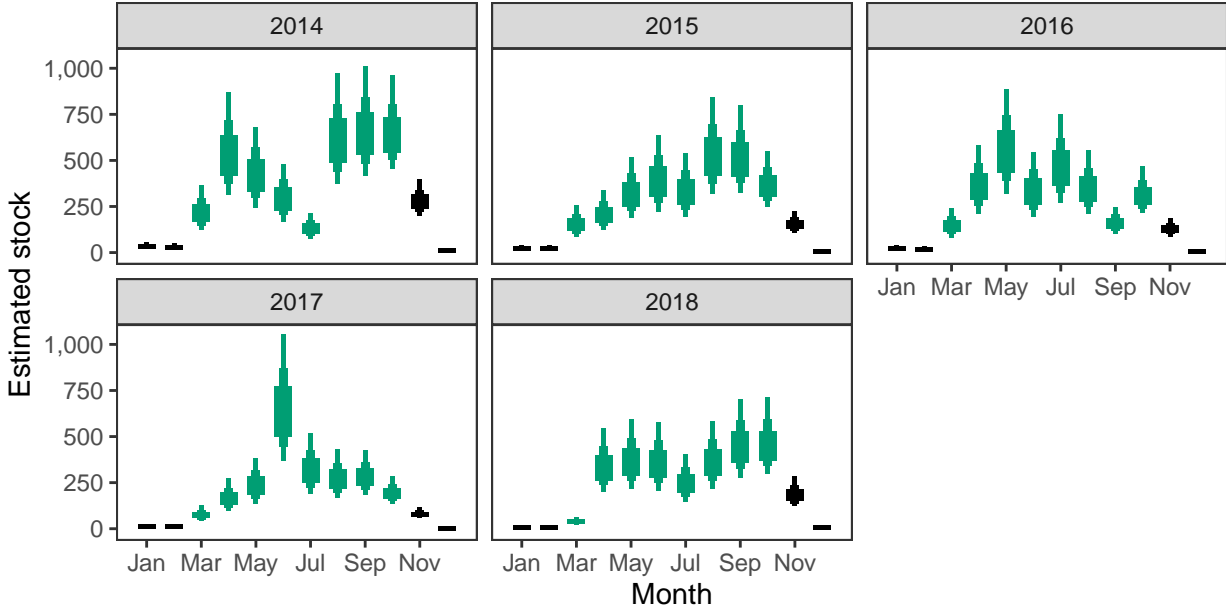# 1. Converting Reported Catches to Numbers of Returning Salmon

Reported Catches (black = retained, blue = released)
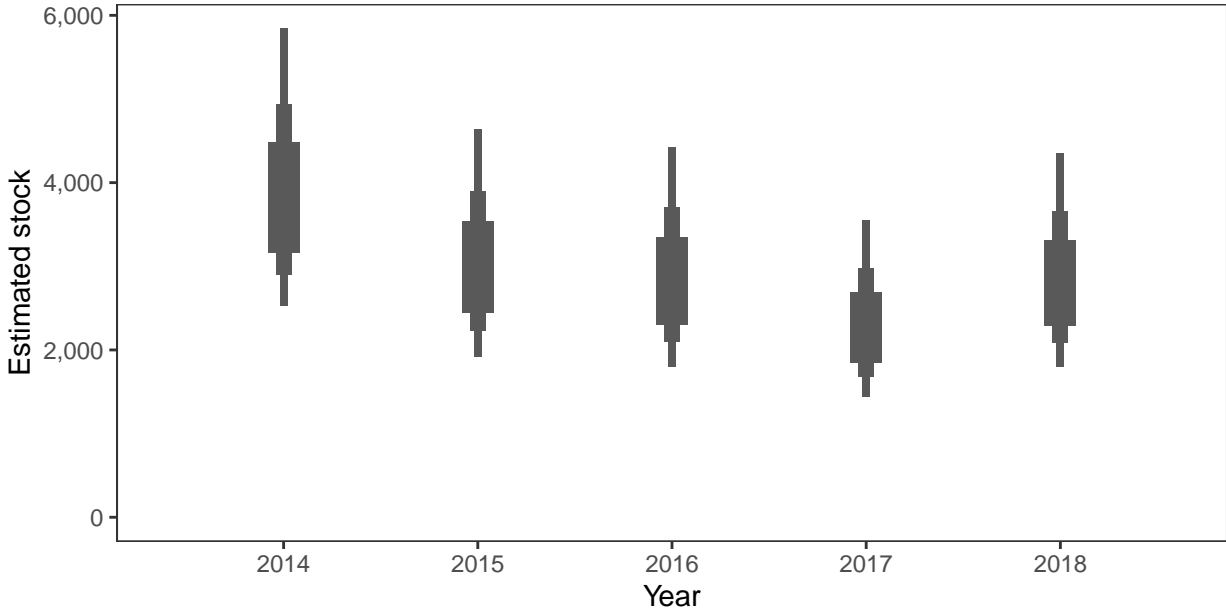

Monthly flow data

Monthly stock estimates (out of season in black)
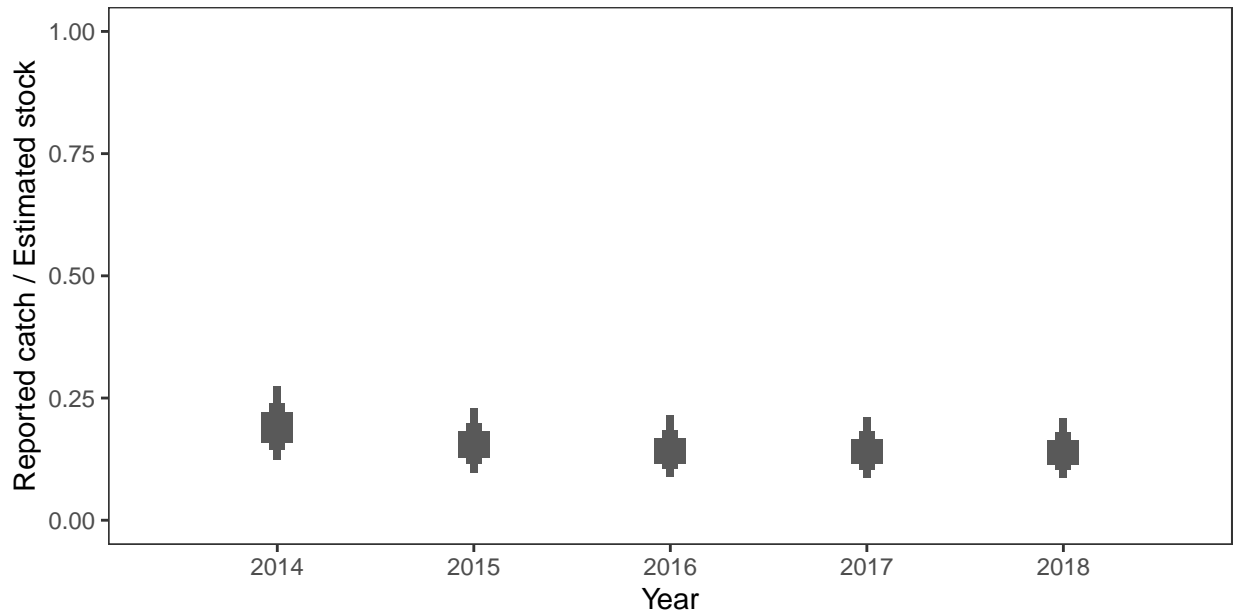

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock

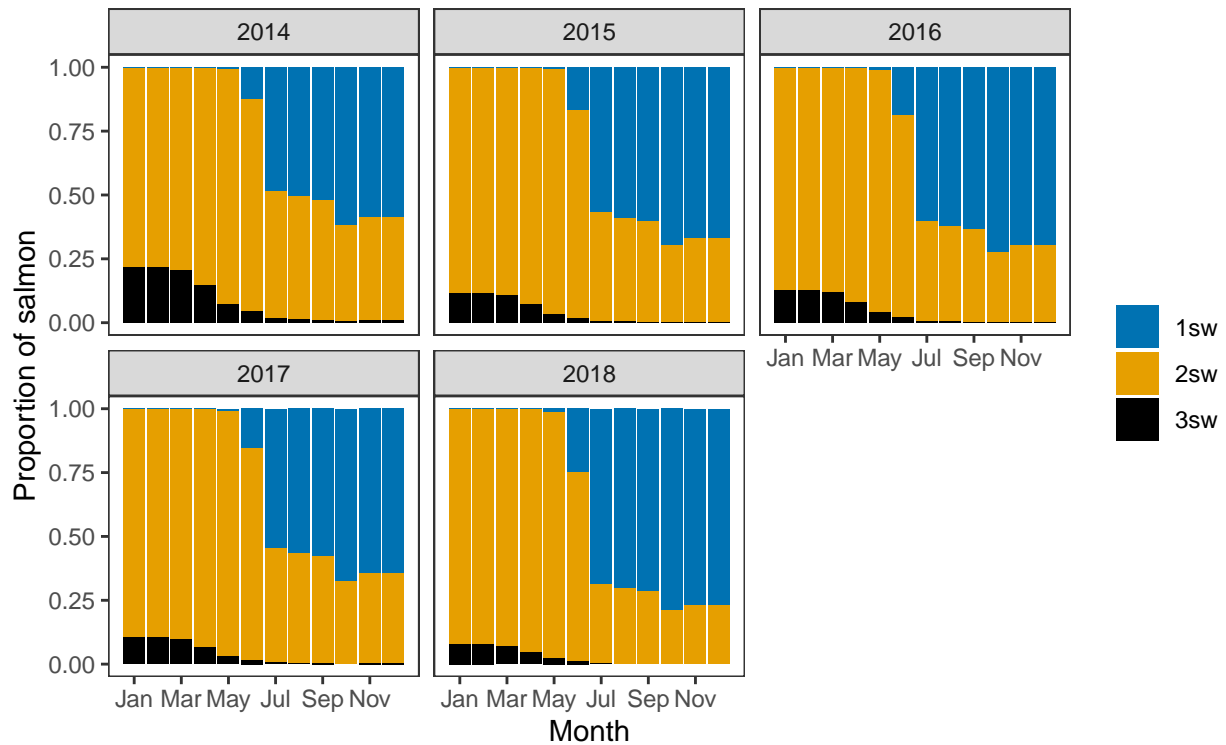Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual catch as a proportion of stock

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).
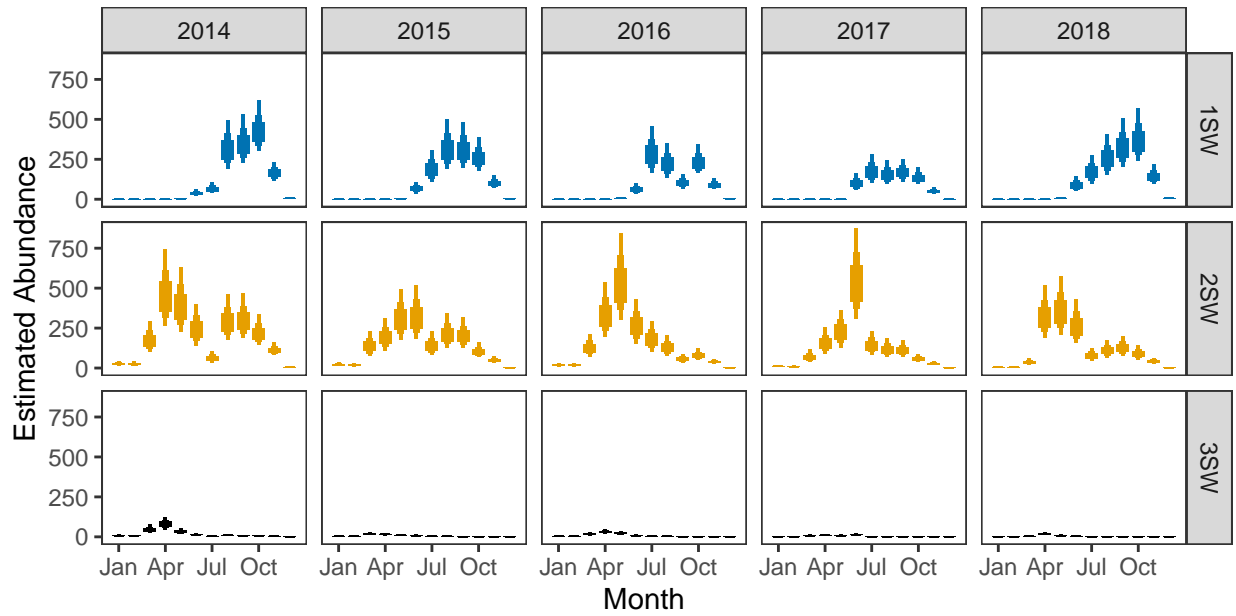
2. Converting Numbers of Returning Salmon to Numbers of Spawning Females
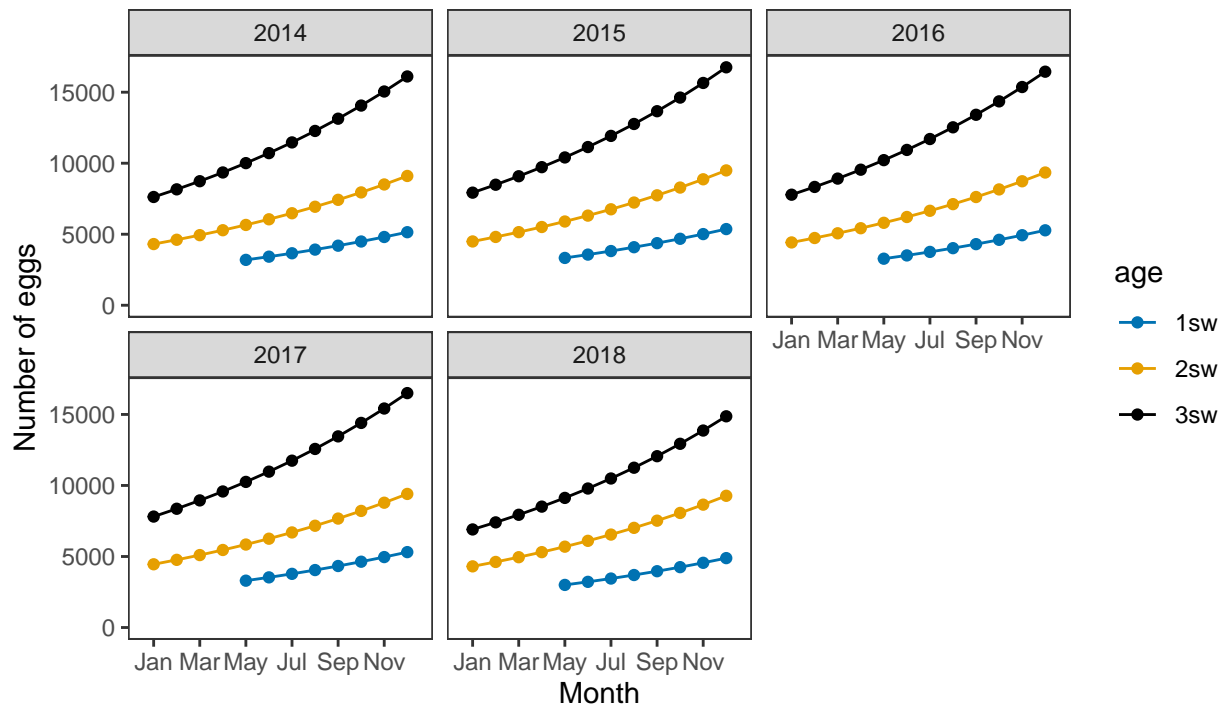
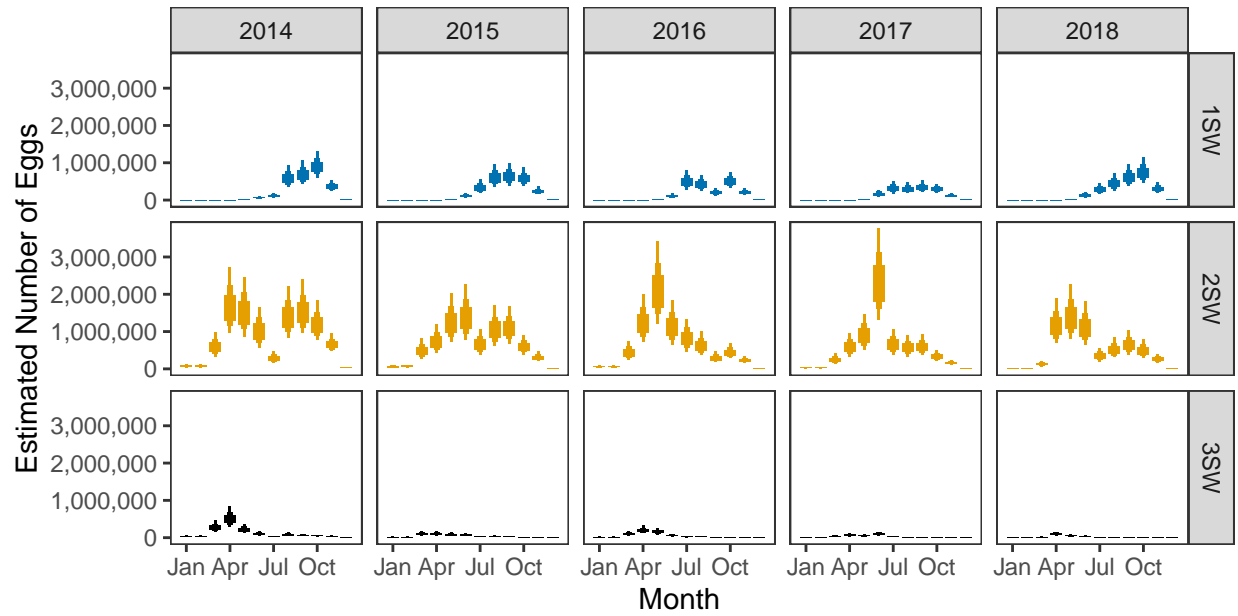*Ages of fish*

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

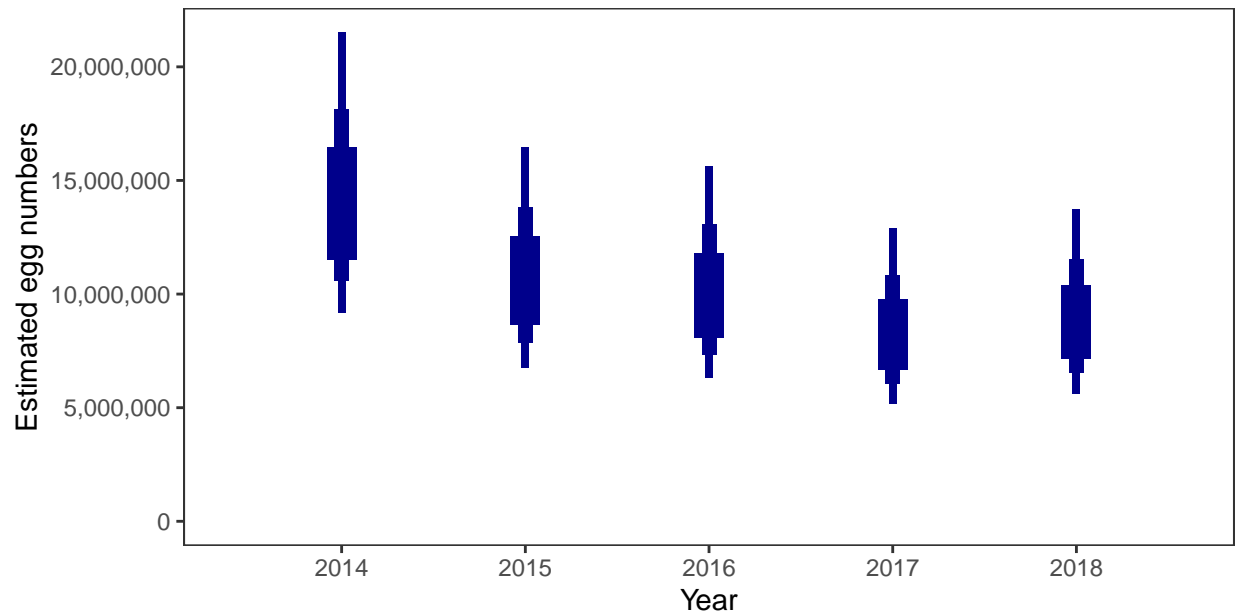### Egg contents of females

Monthly number of eggs

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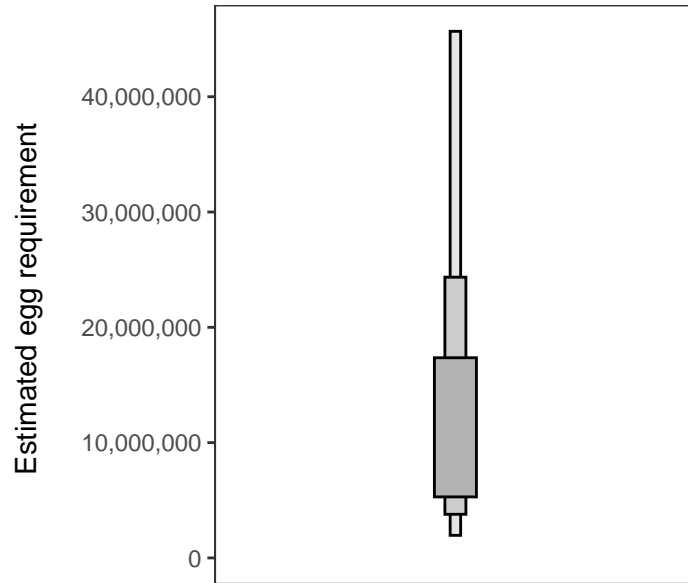
Total annual egg numbers

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

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.
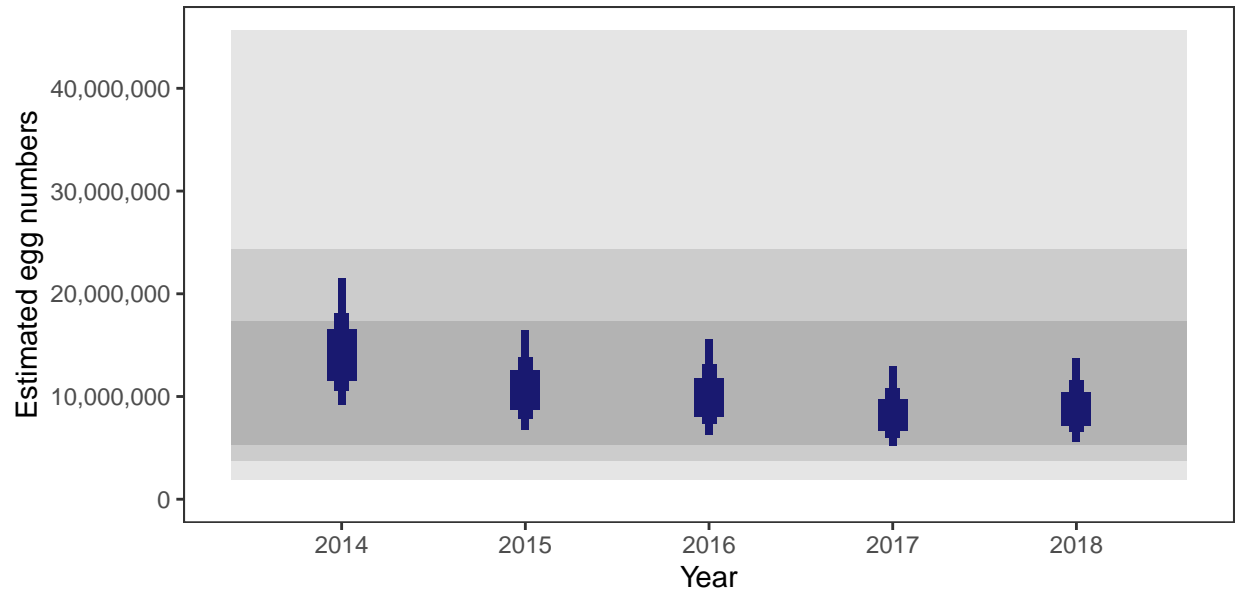
Egg requirement

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

5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	65.50
2015	53.68
2016	51.60
2017	42.95
2018	46.01

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)
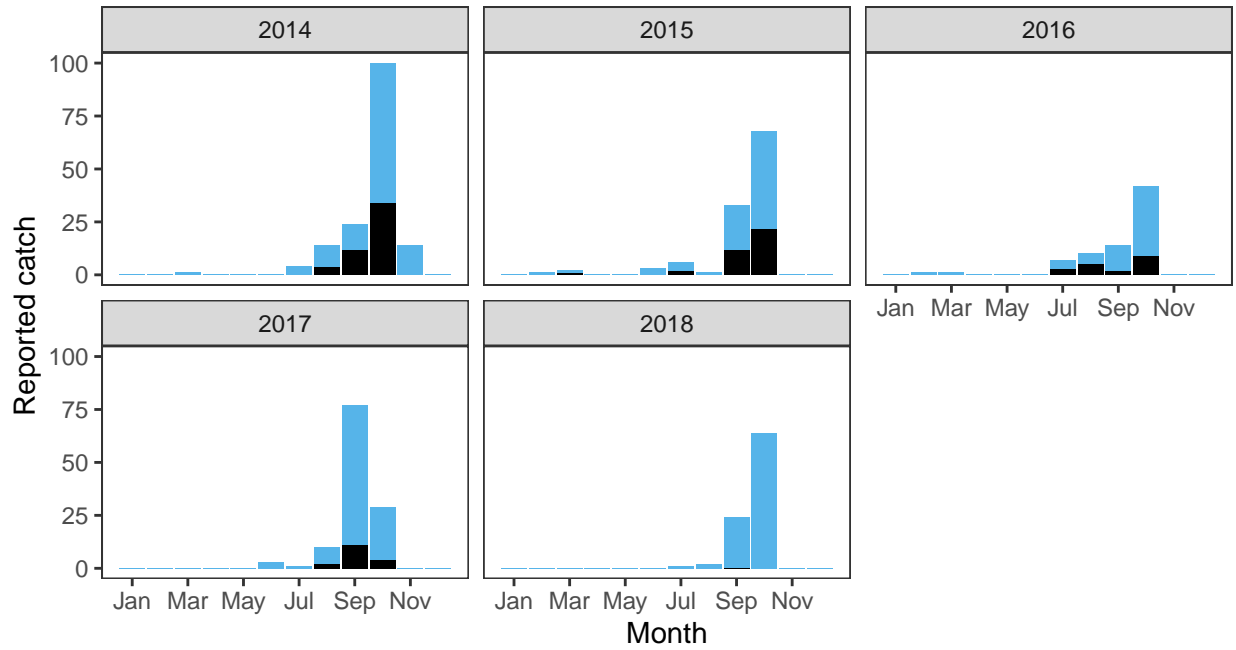
River Ythan: Grade 3

Summary Table

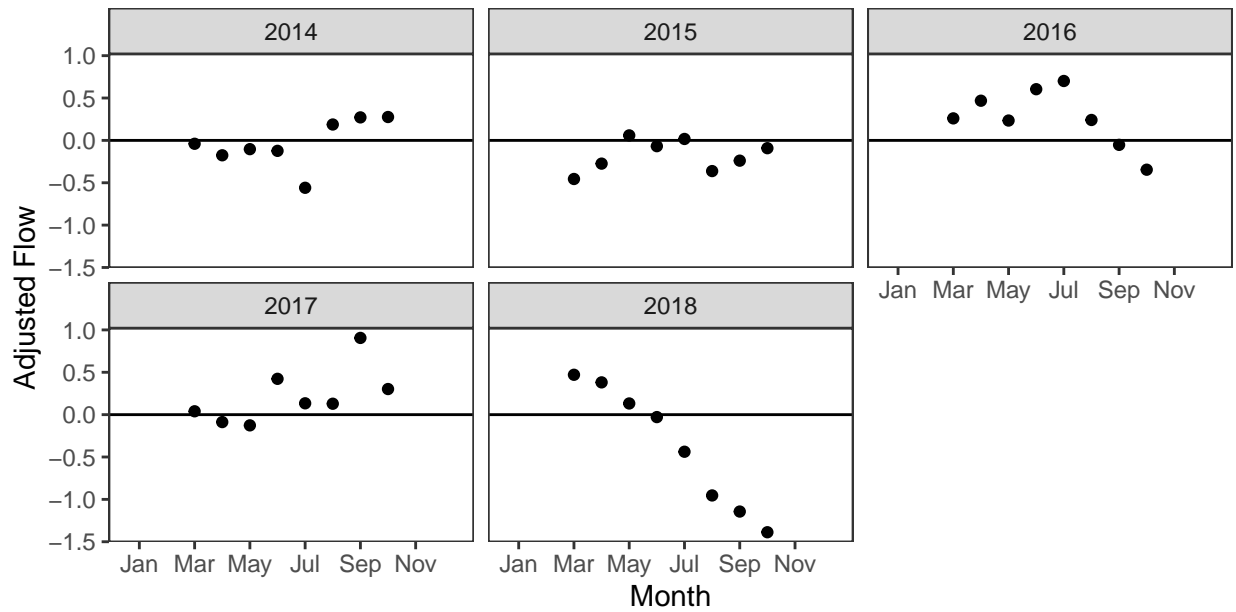| Eggs required (m^2)^a | Area (m^2)^a | Total egg requirement^a | Percentage chance meeting requirement | | | | | | Grade |
			2014	2015	2016	2017	2018	Overall	
2.45	585,100	1,430,731	55.32	50.81	32.17	47.58	40.32	45.24	3

^{a} Figures presented are median values

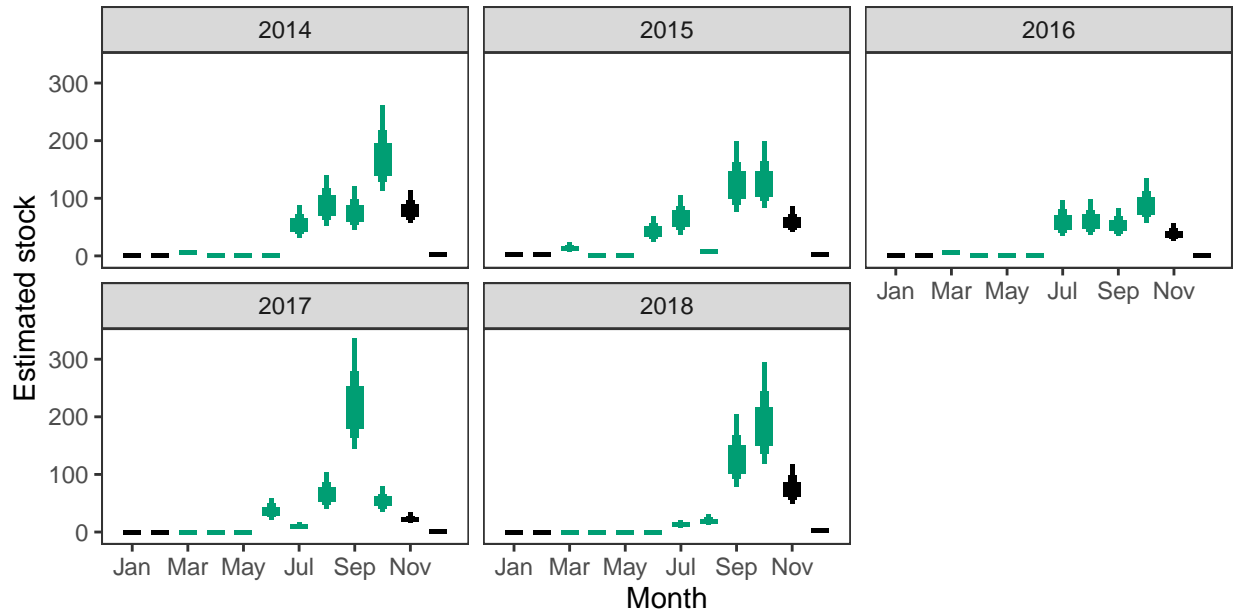# 1. Converting Reported Catches to Numbers of Returning Salmon

Reported Catches (black = retained, blue = released)
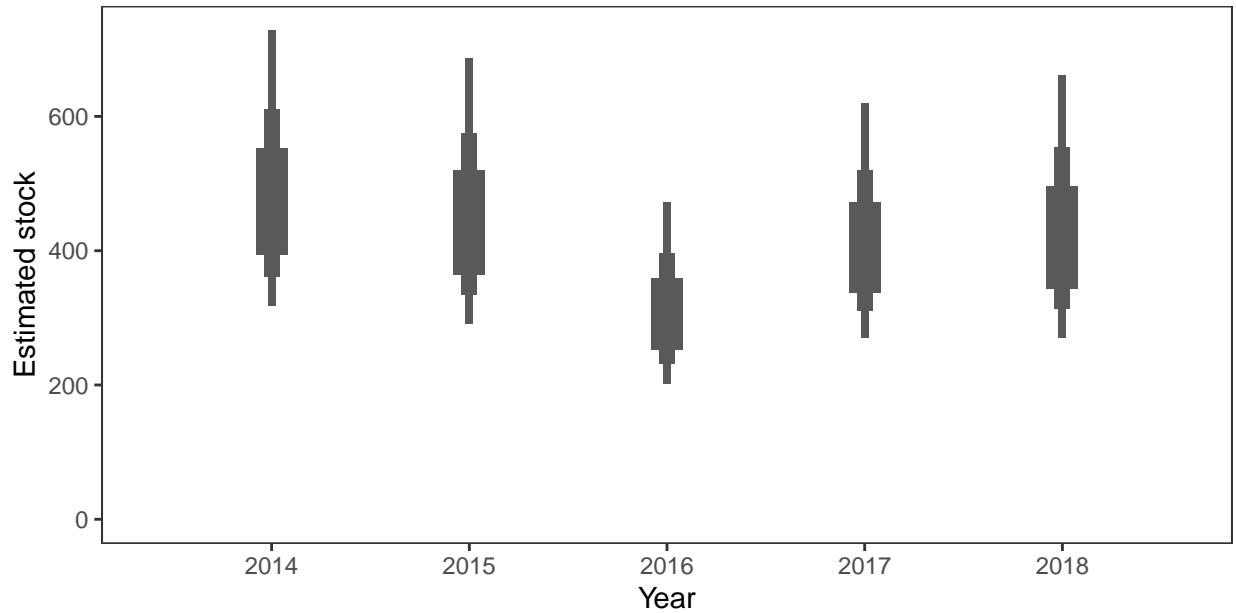

Monthly flow data

Monthly stock estimates (out of season in black)
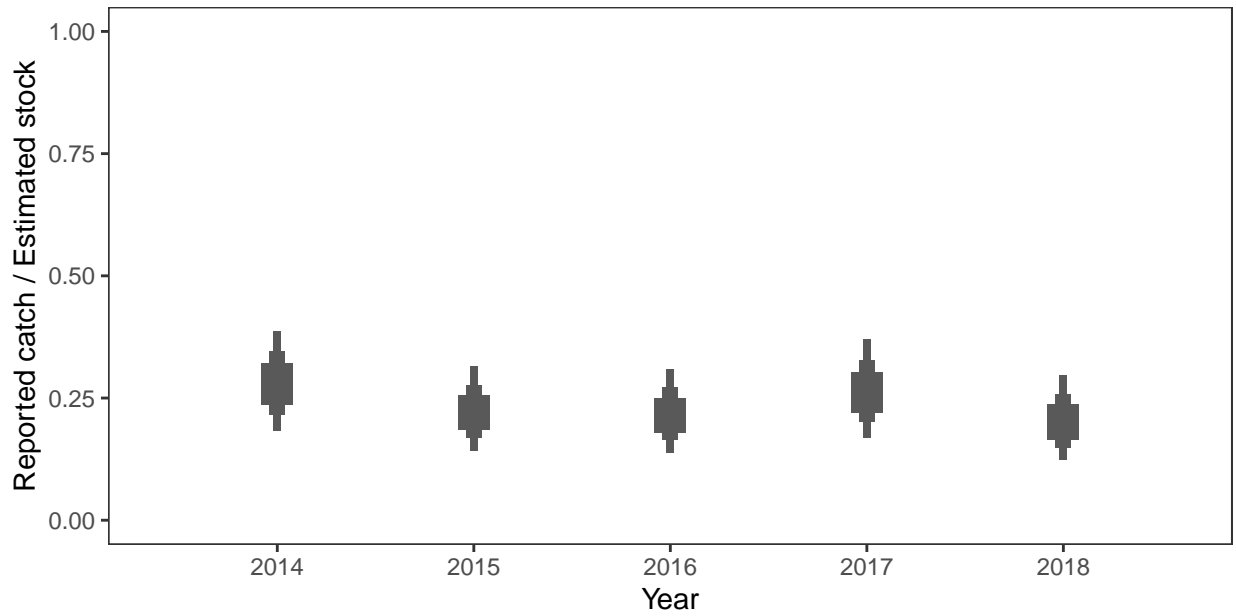

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual estimated stock

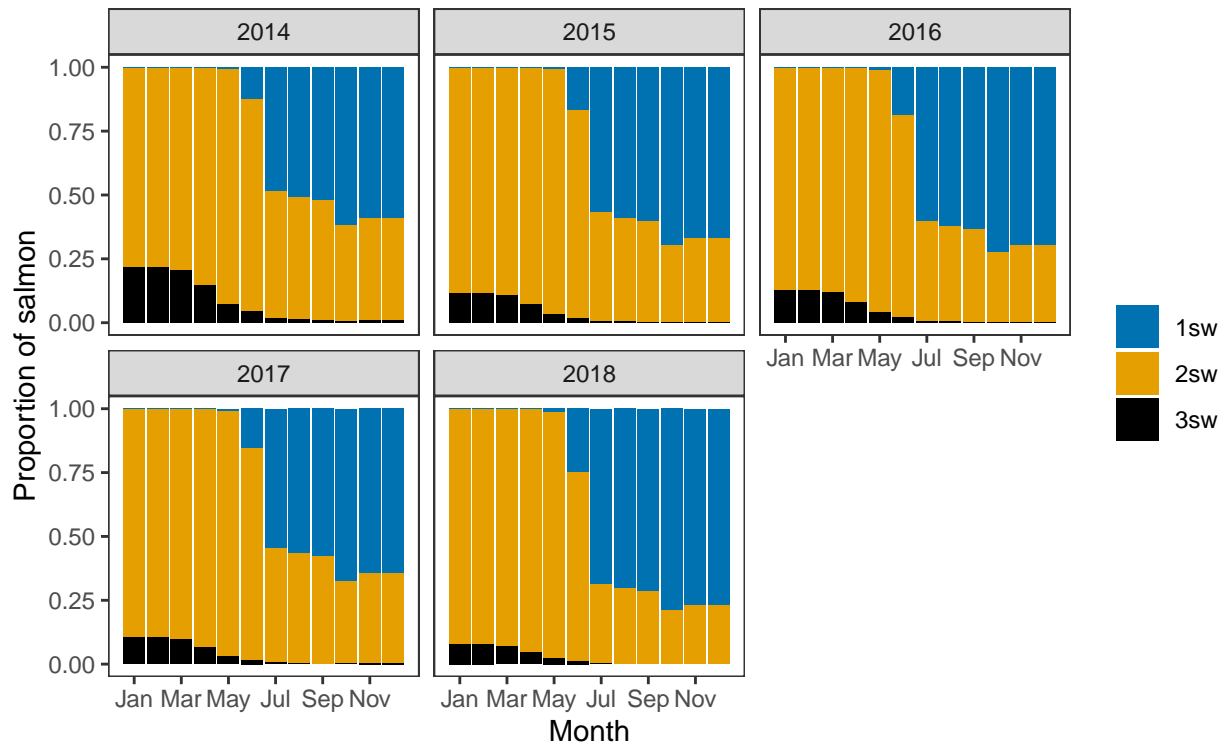Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

Annual catch as a proportion of stock

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

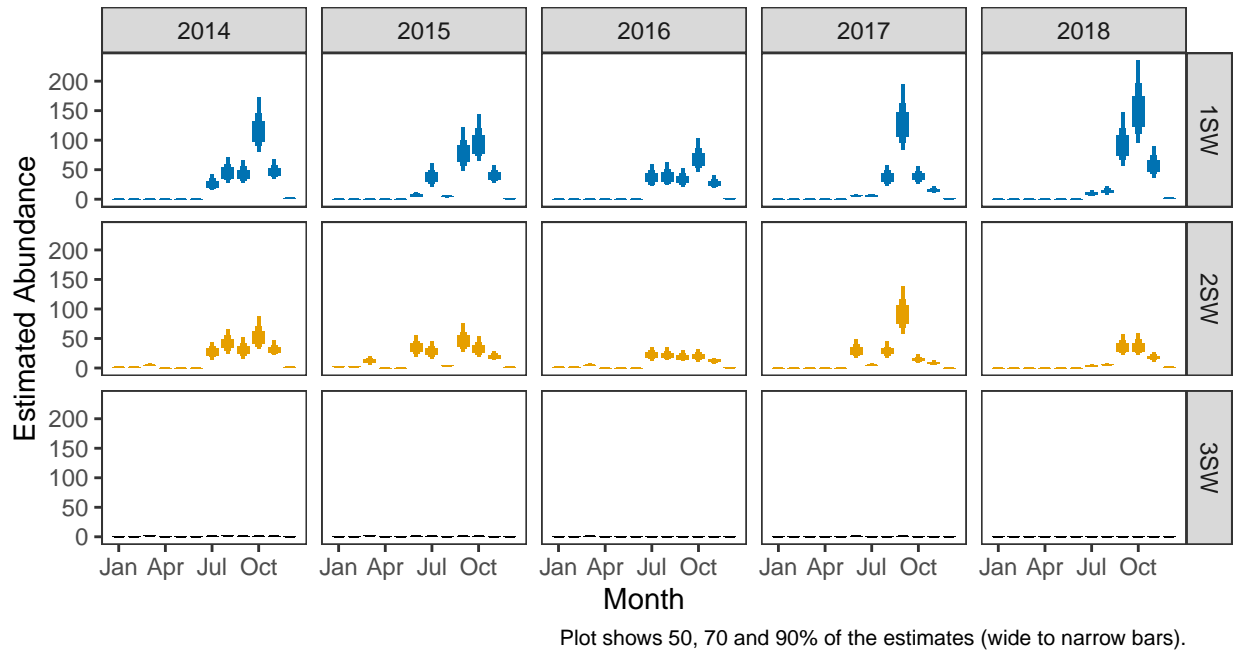## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

Ages of fish

Monthly number of spawning females

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).
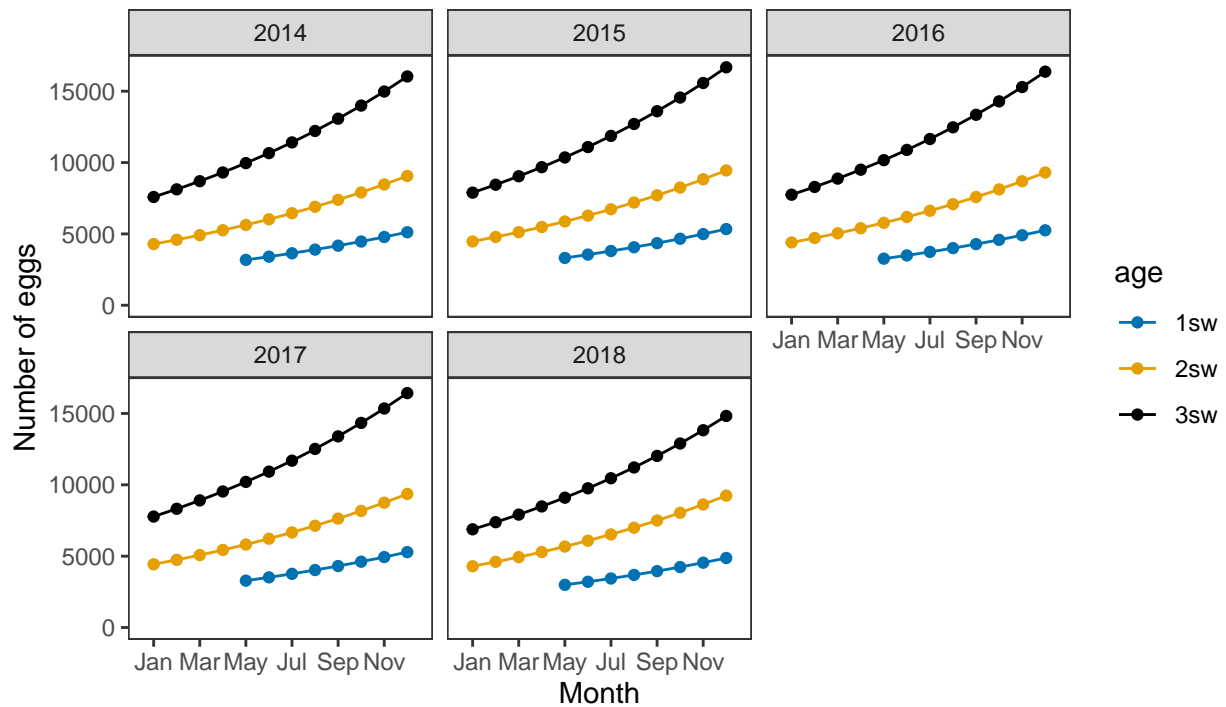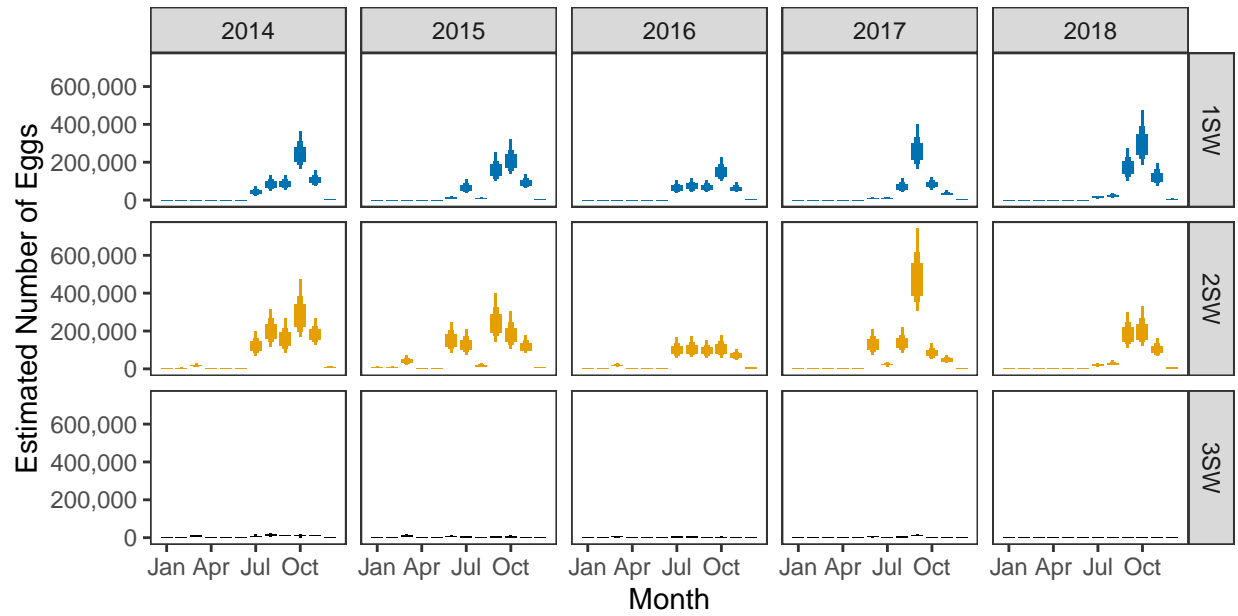
3. Converting Number of Spawners to Number of Eggs

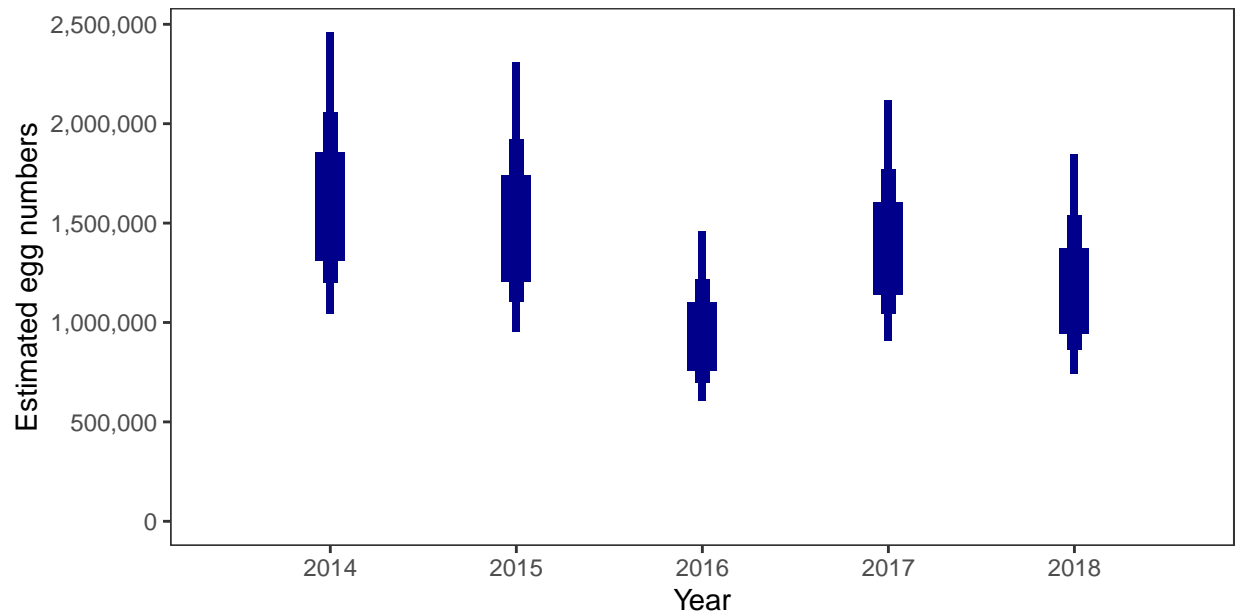*Egg contents of females*

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).

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).
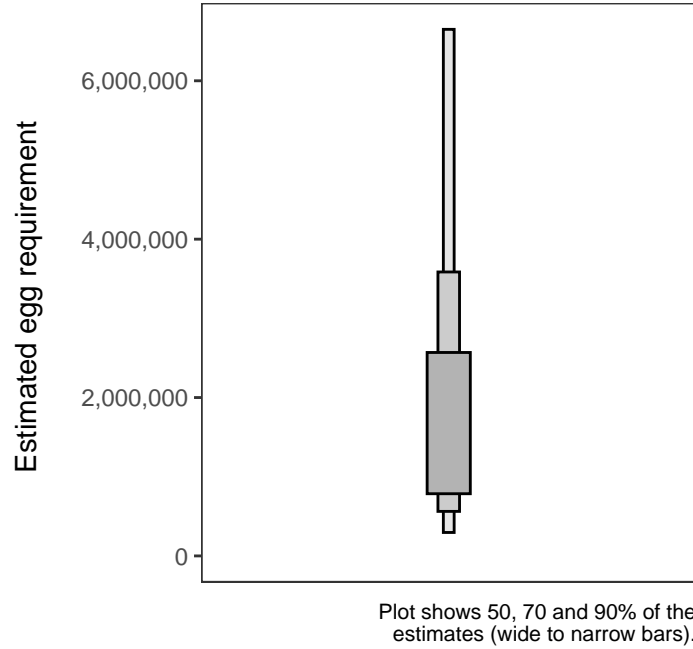
5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	55.32
2015	50.81
2016	32.17
2017	47.58
2018	40.32
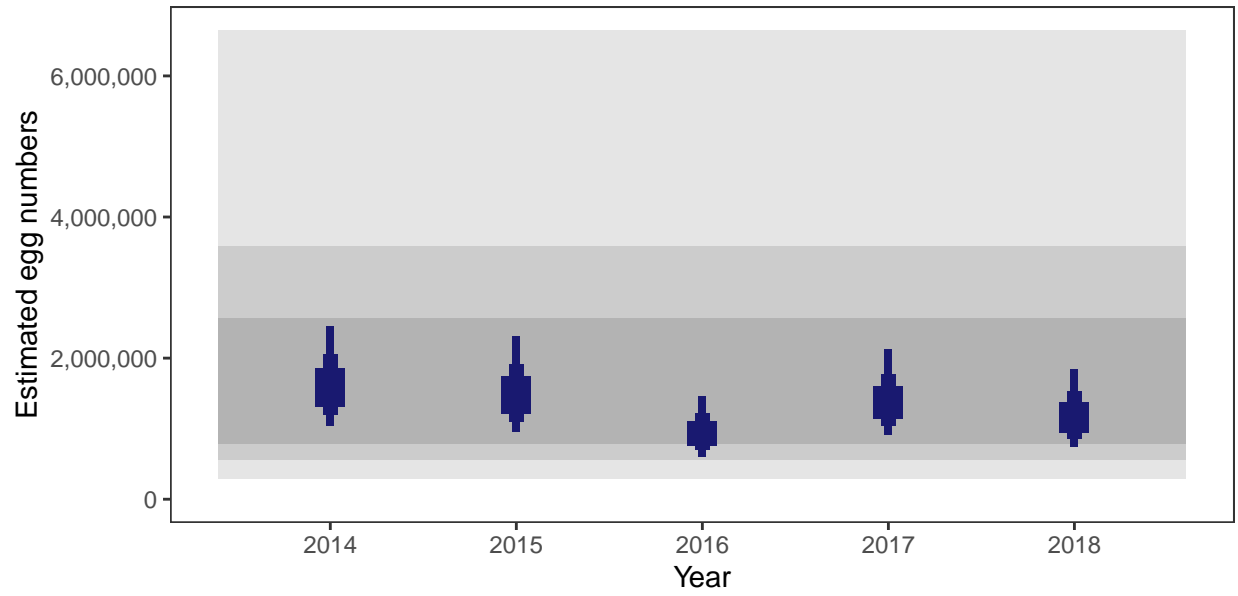
Plot shows 50, 70 and 90% of the estimates (wide to narrow bars). Shaded areas
represent 50, 70 and 90% of the estimated egg requirements (dark to light areas)

River Ugie: Grade 3

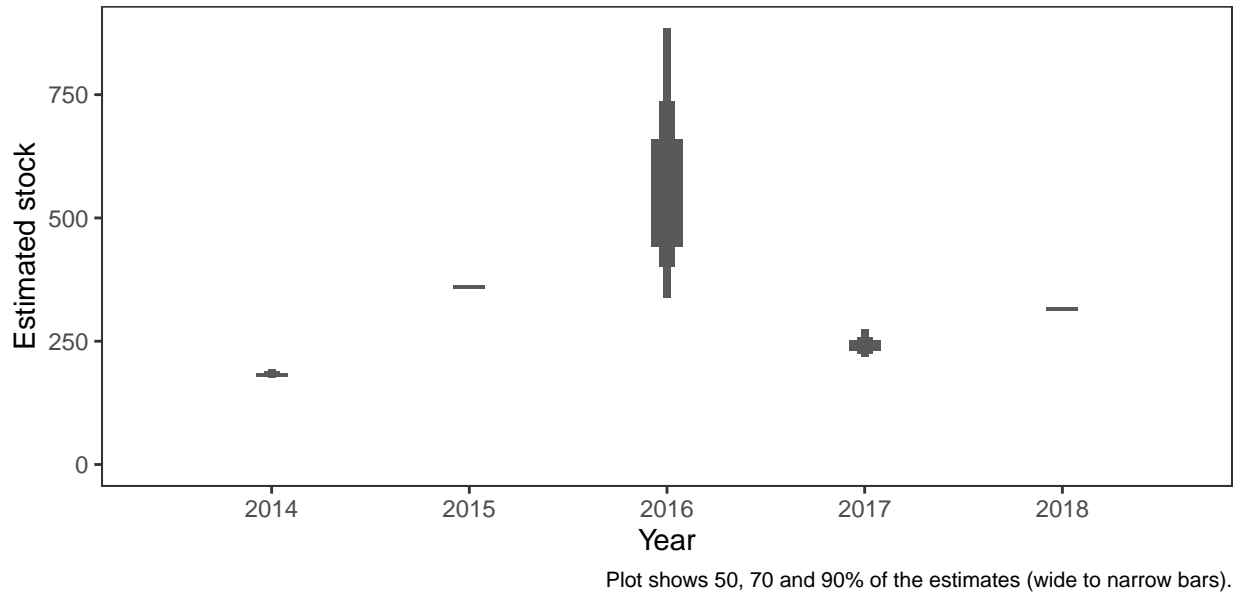**Detailed information on catches is not publicly available for this assessment area**

Summary Table

| Eggs required (m²)[a] | Area (m²)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
			2014	2015	2016	2017	2018	Overall	
2.02	541,200	1,091,448	28.81	57.94	69.97	37.51	39.76	46.8	3

[a] Figures presented are median values

1. Converting Reported Catches to Numbers of Returning Salmon

Annual estimated stock

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).
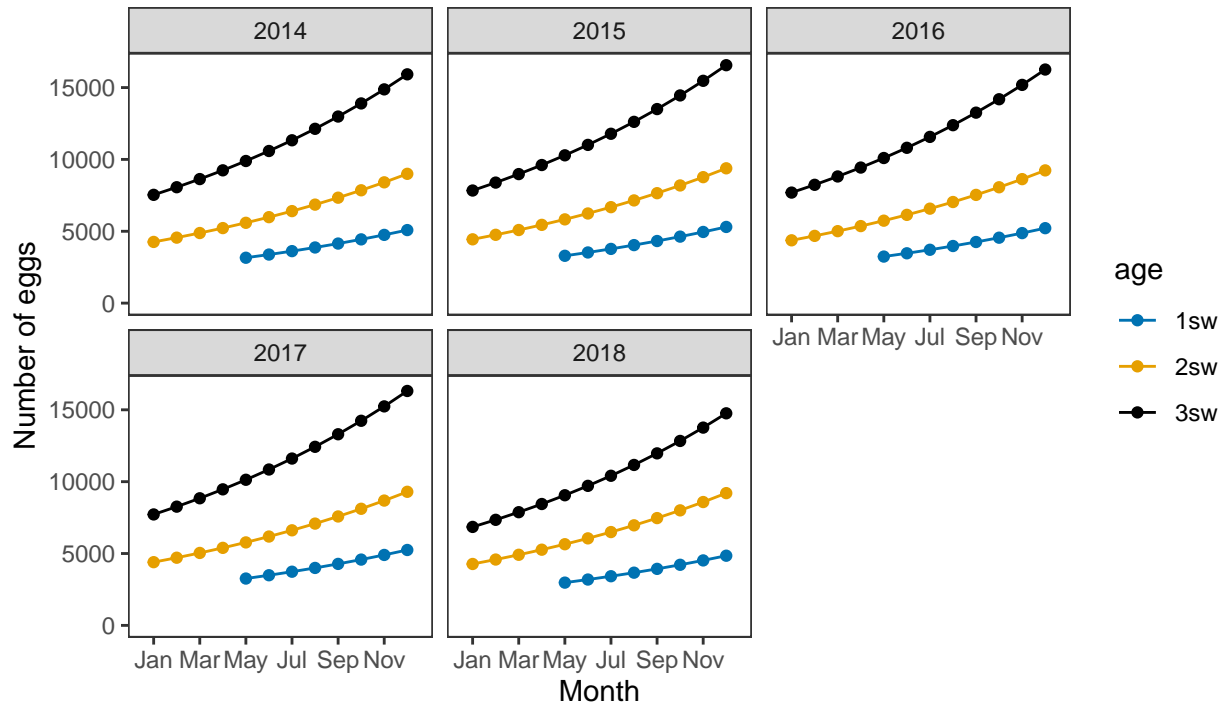
2. Converting Numbers of Returning Salmon to Numbers of Spawning Females
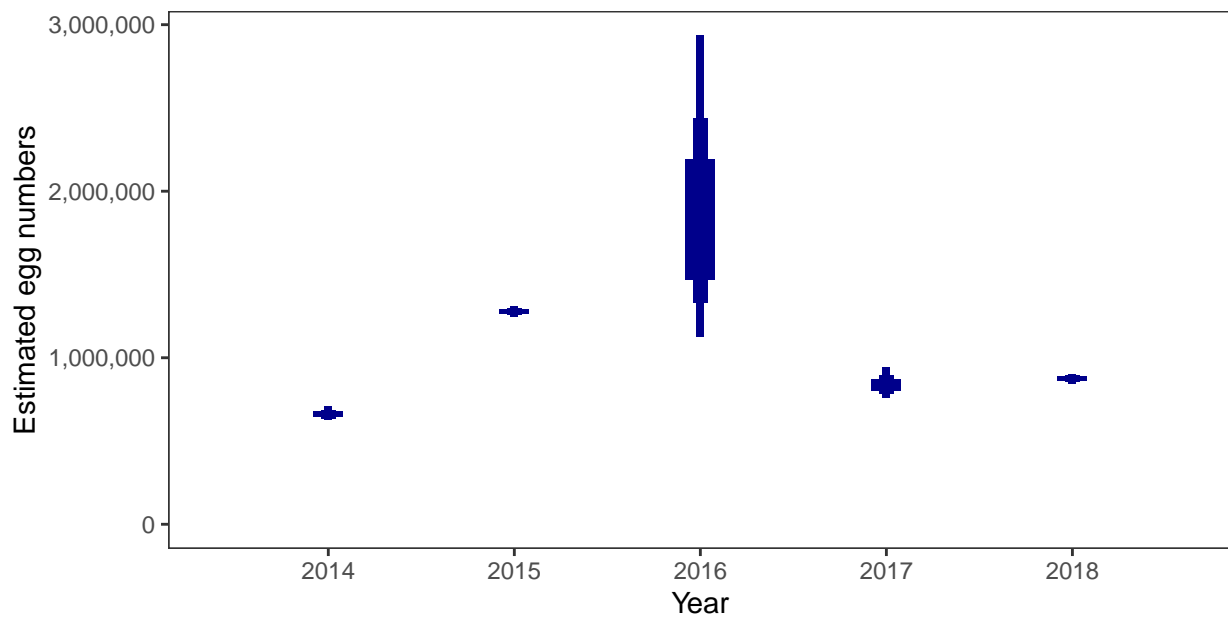
Ages of fish
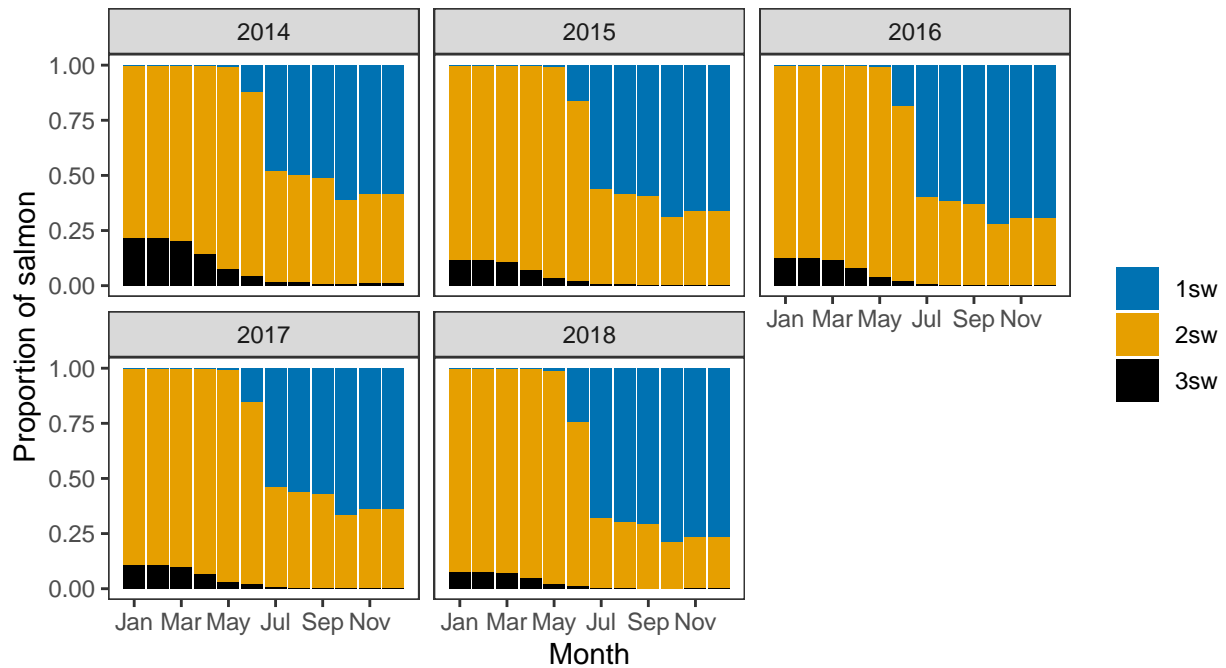
3. Converting Number of Spawners to Number of Eggs

Egg contents of females

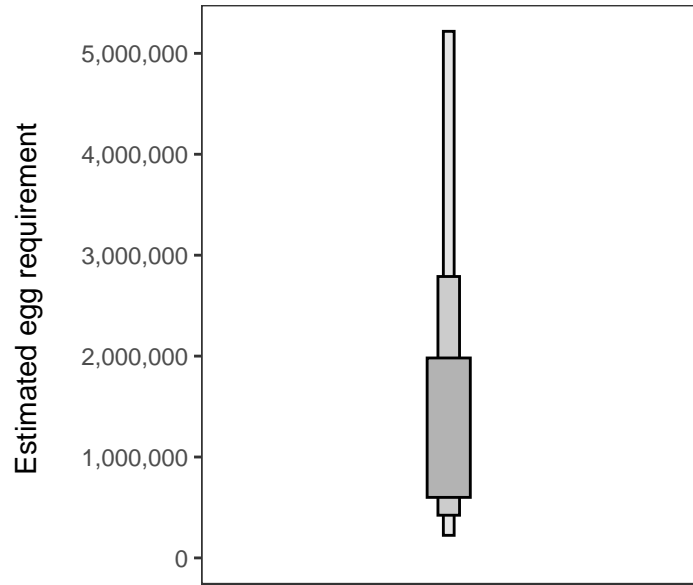

Total annual egg numbers

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

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.
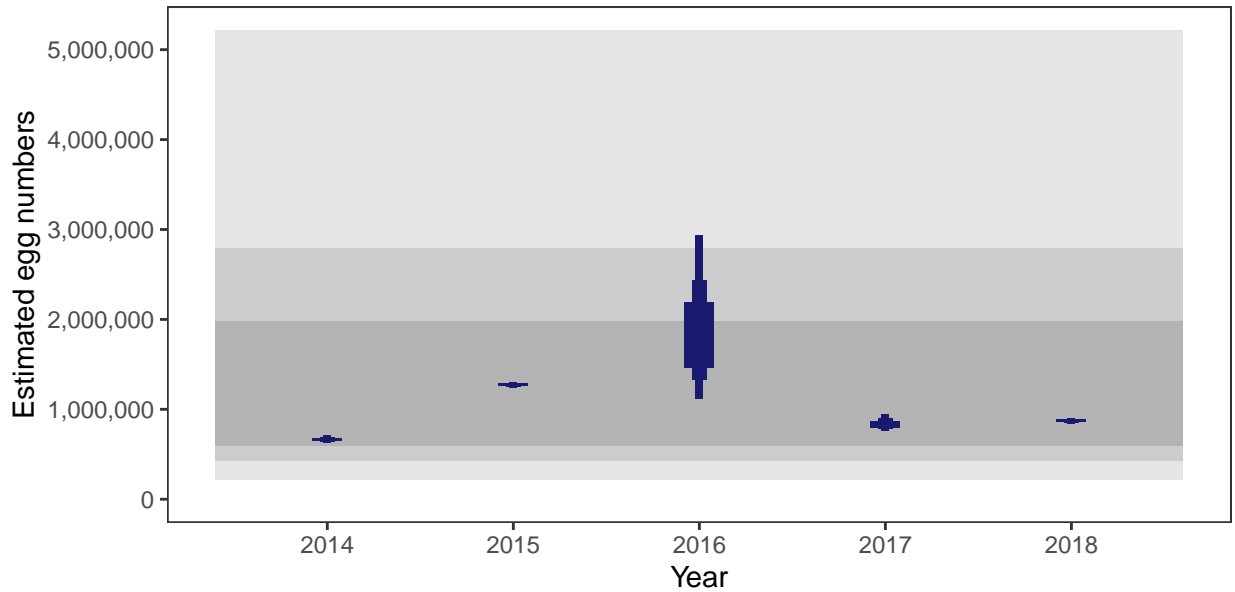
Egg requirement

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

5. Percentage chance that the egg requirement has been reached

Year	Percentage above
2014	28.81
2015	57.94
2016	69.97
2017	37.51
2018	39.76

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)