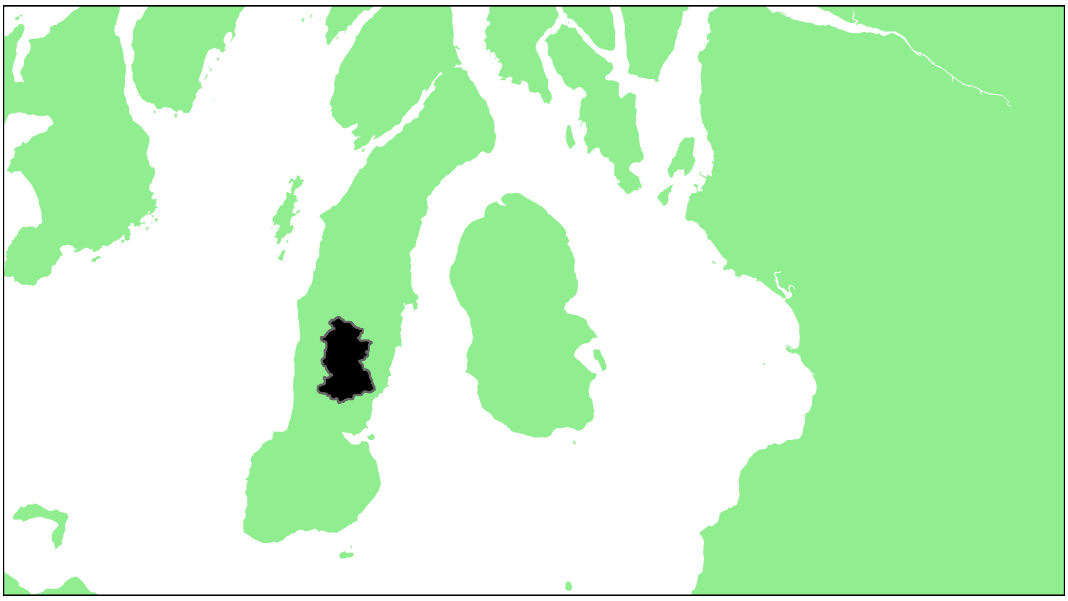
# Clyde Coast Region

## Glenlussa Water: Grade 3



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

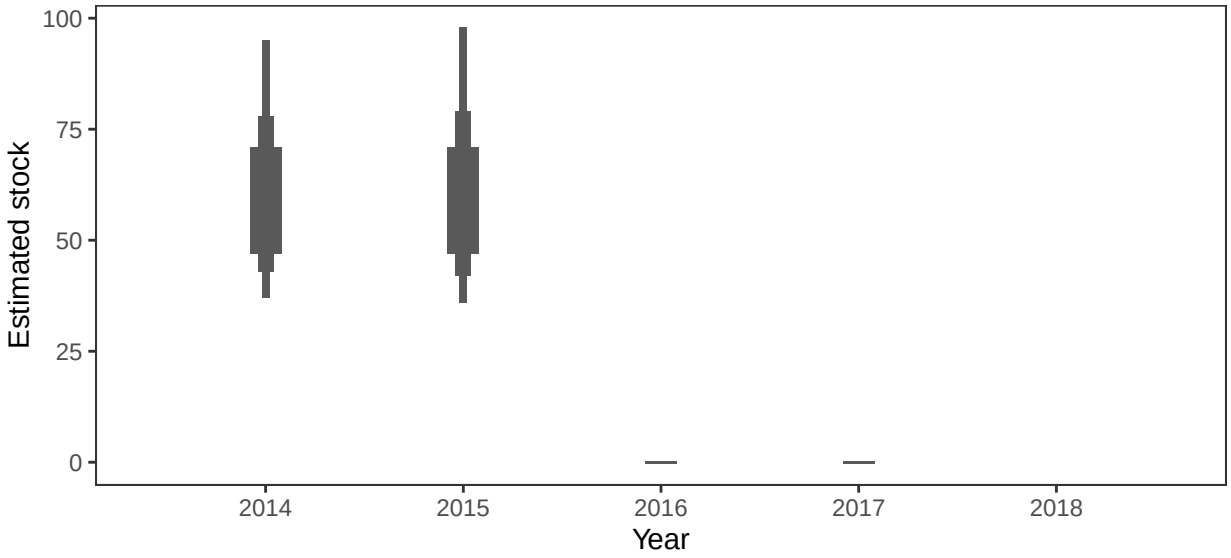
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.37 | 55,800 | 76,571 | 73.16 | 72.95 | 0 | 0 | 0 | 29.22 | 3 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

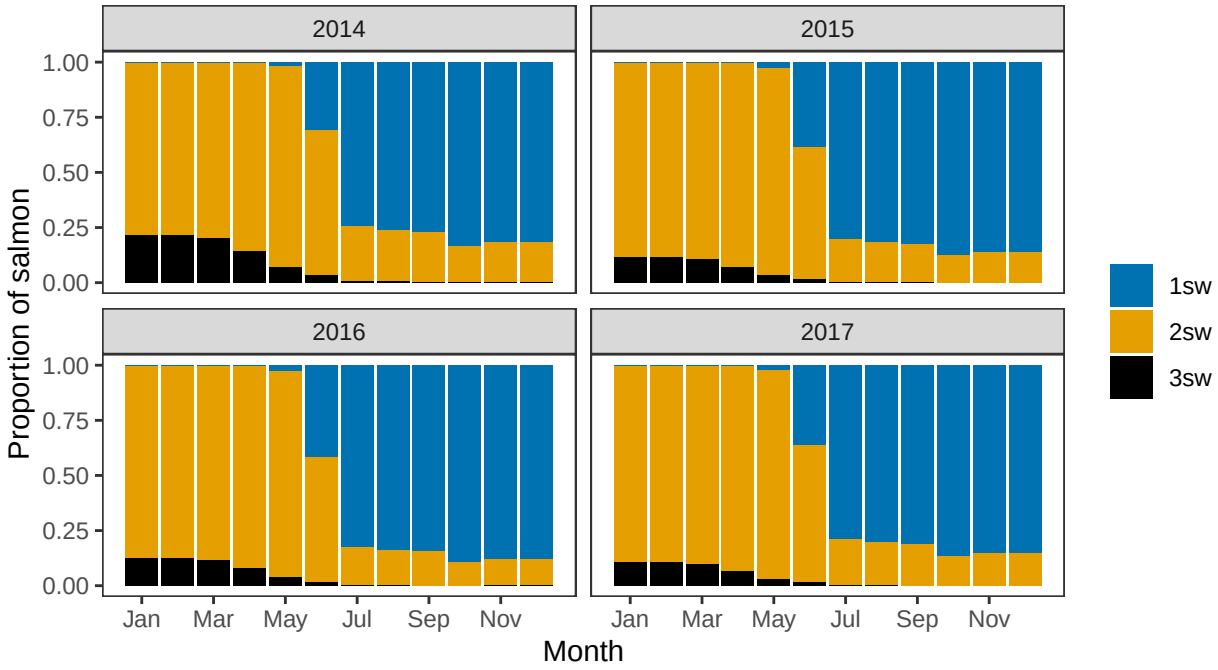
***Annual estimated stock***




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

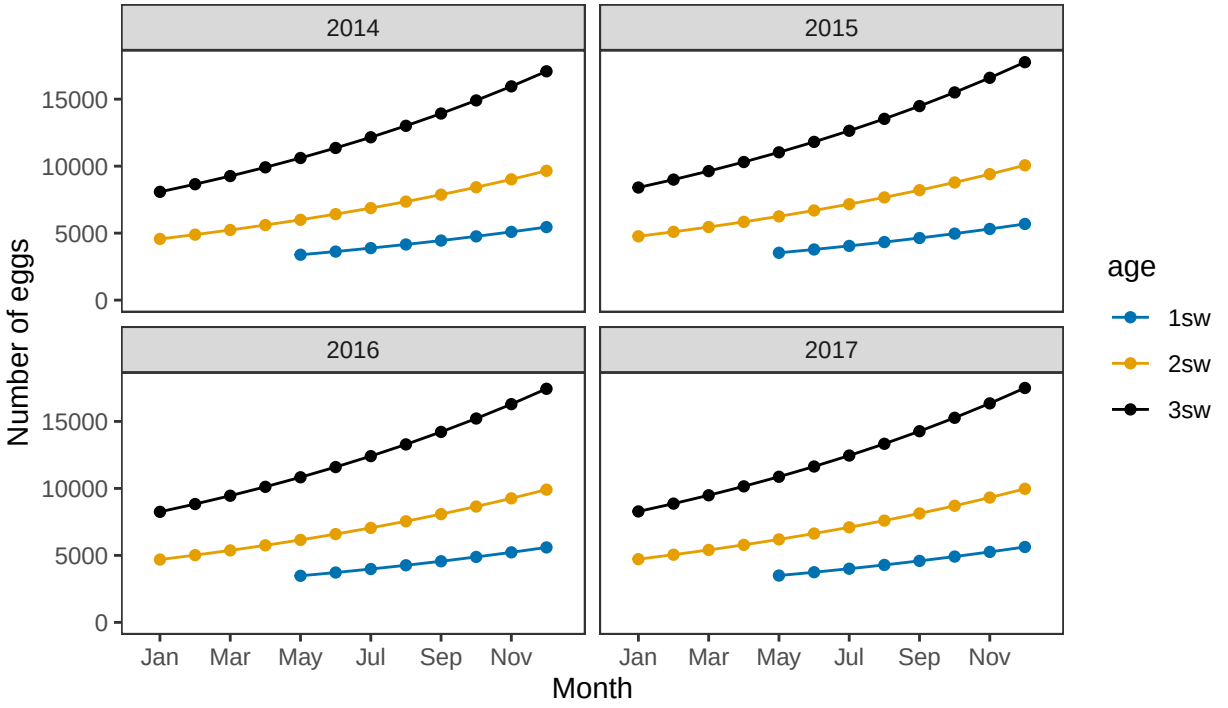
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

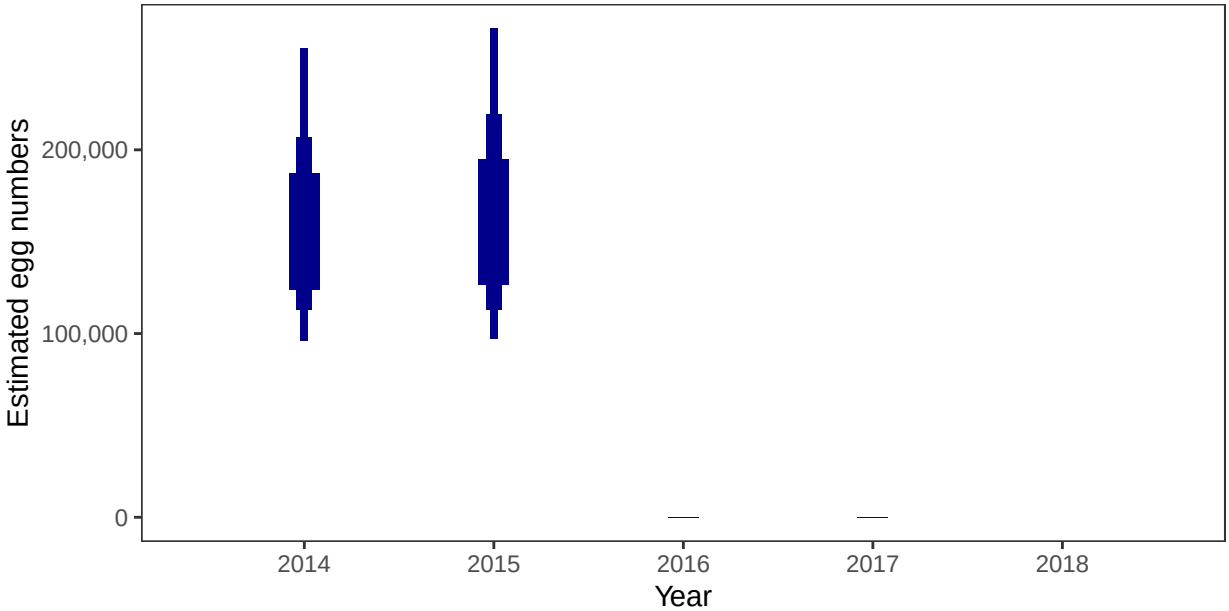


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



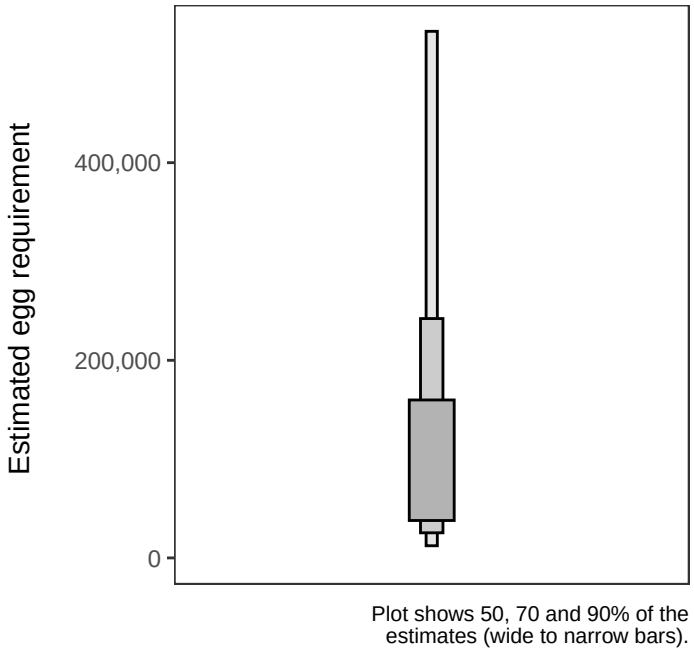

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

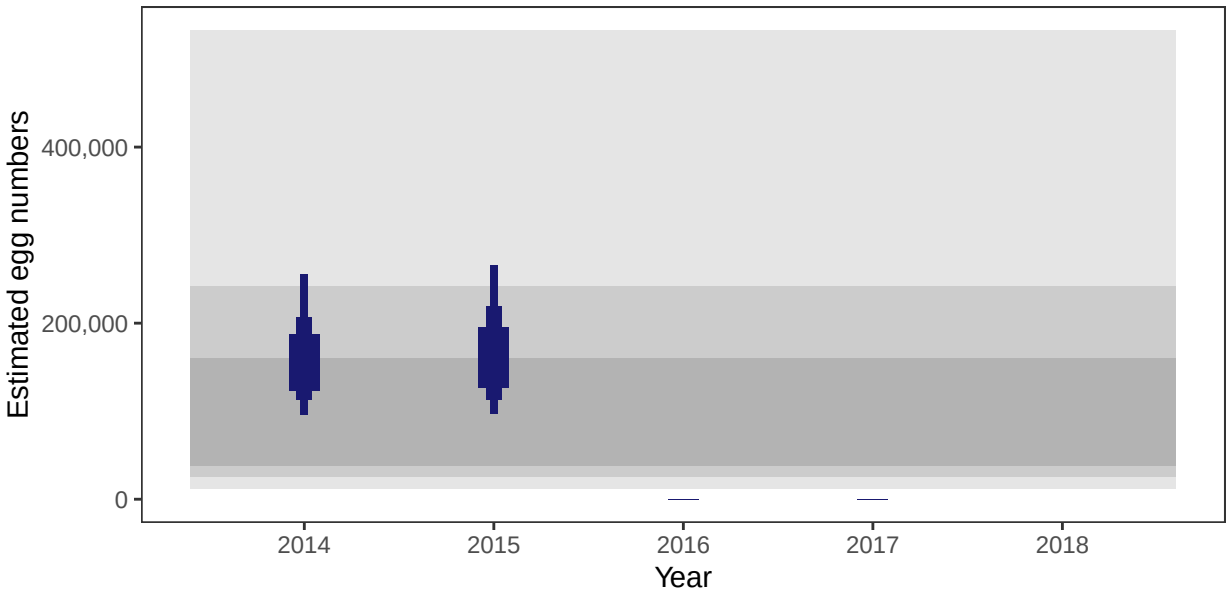
There is an estimated 63,447 square meters of known salmon habitat in the Glenlussa Water and a further 0 square meters where salmon may be present.

### *Egg requirement*



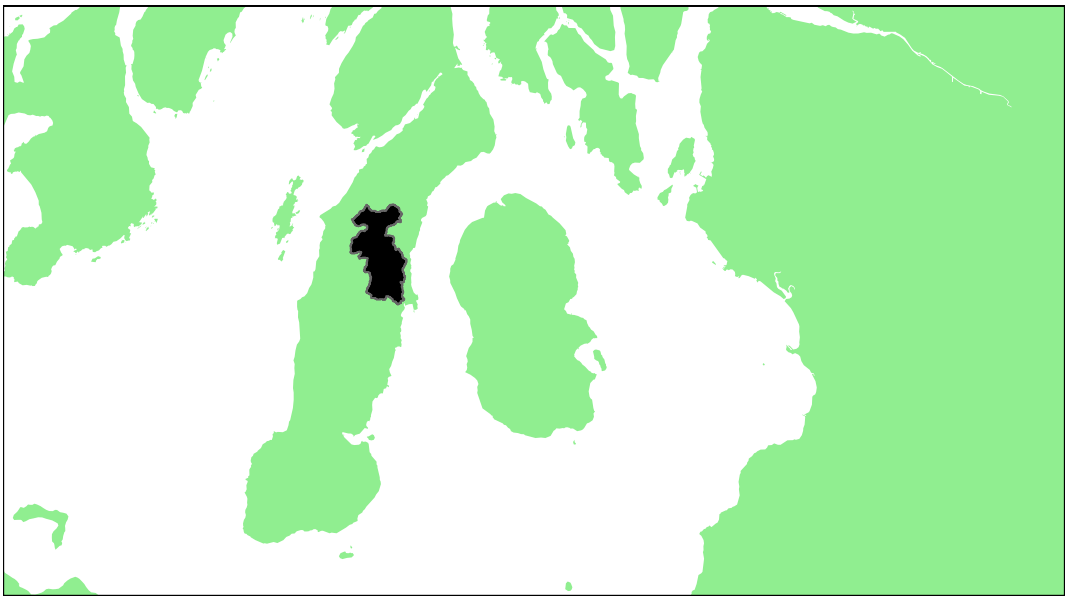

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 73.16 |
| 2015 | 72.95 |
| 2016 | - |
| 2017 | - |
| 2018 | - |




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)

## Carradale Water: Grade 3



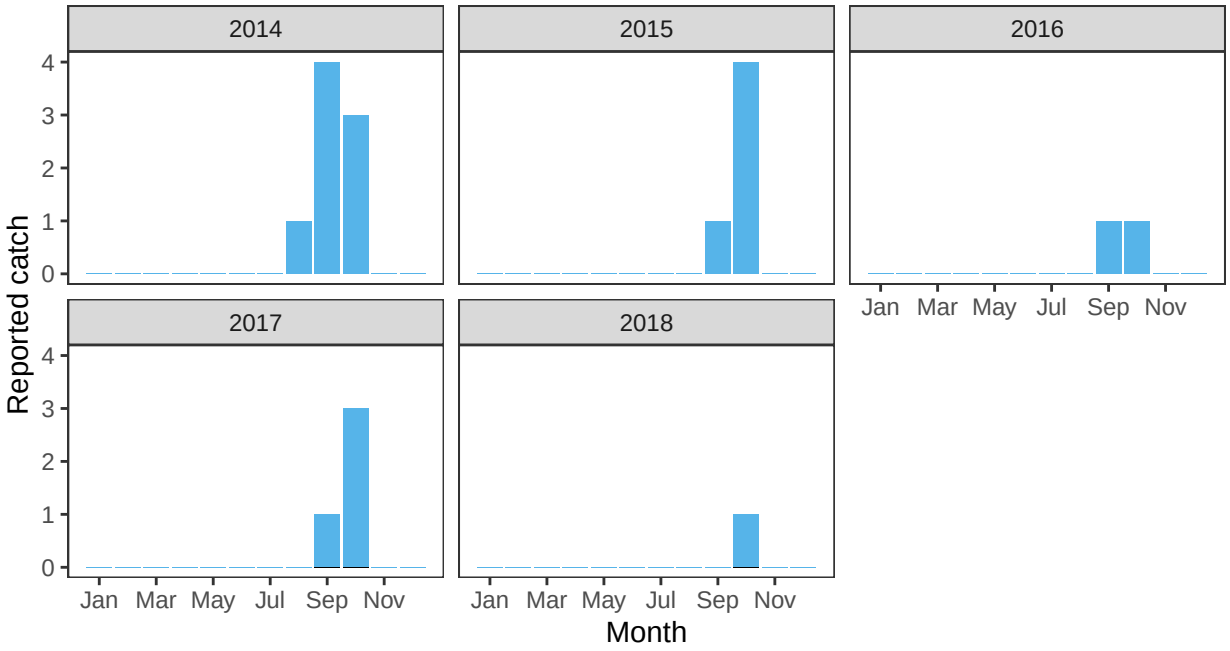
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.41 | 120,300 | 169,238 | 35.15 | 24.19 | 4.22 | 7.57 | 0.74 | 14.37 | 3 |

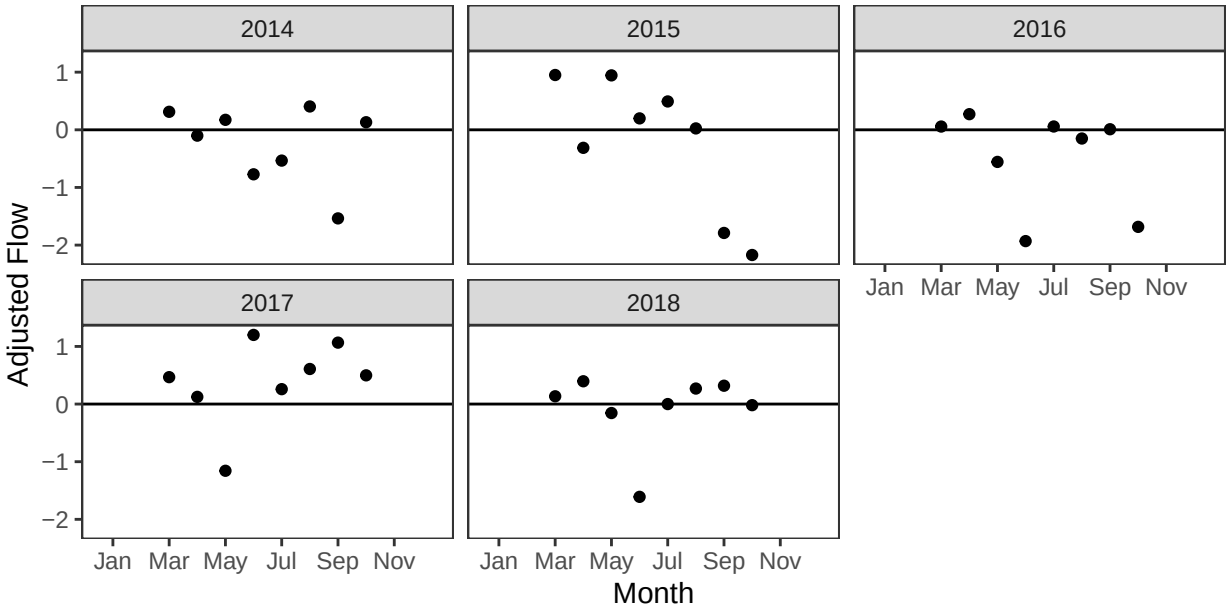
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

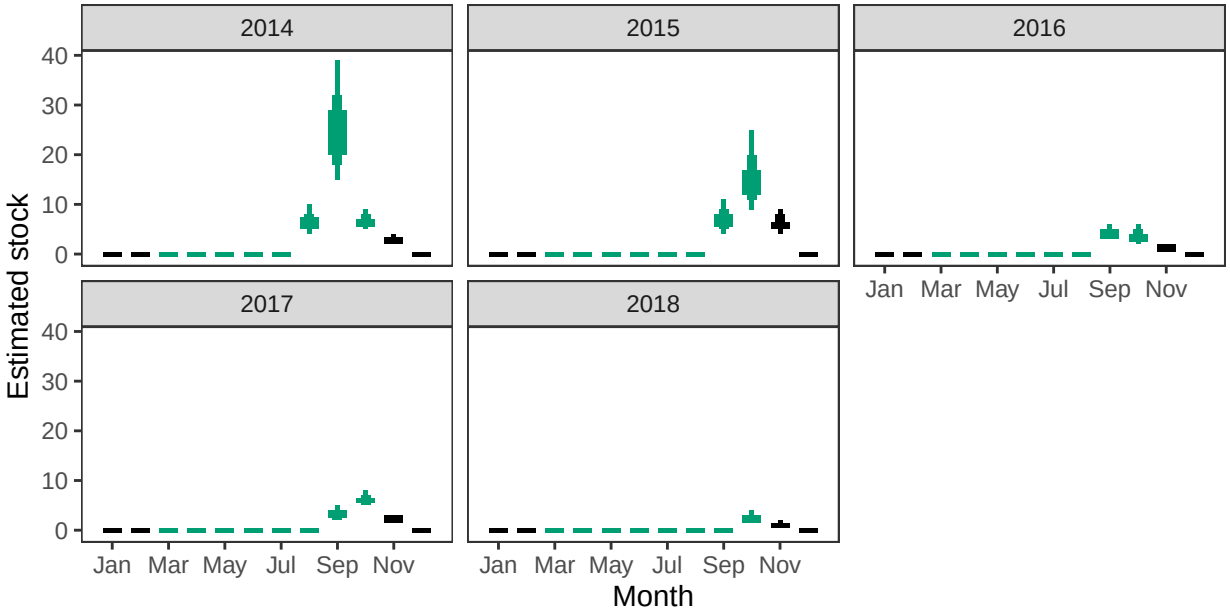
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

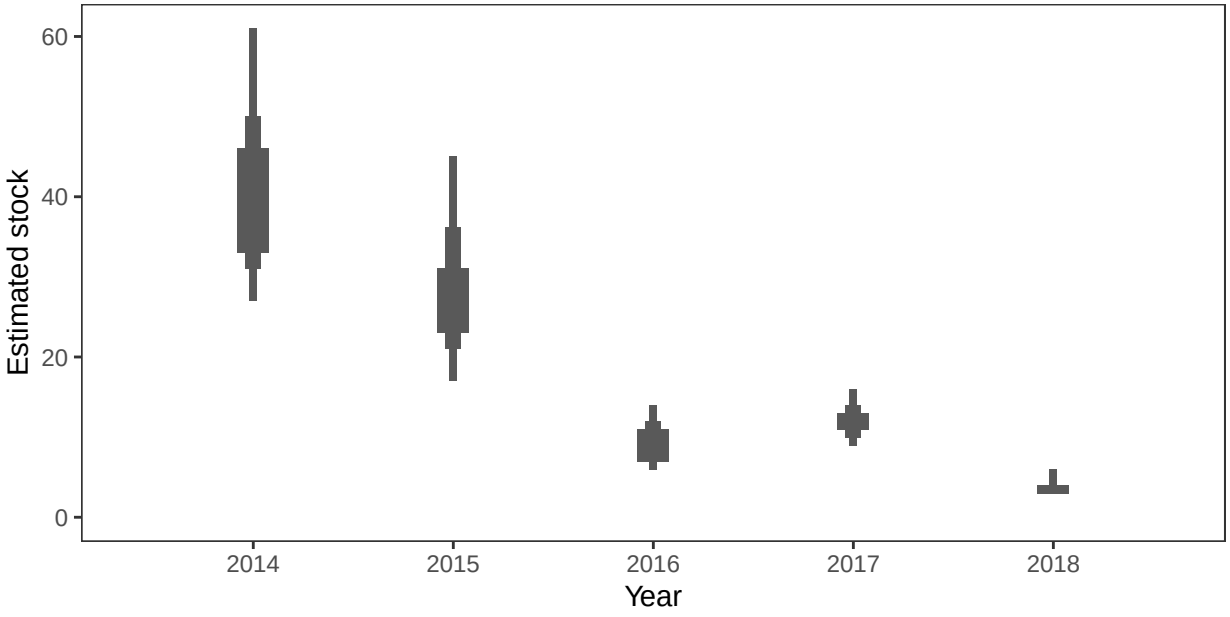


*Monthly stock estimates (out of season in black)*



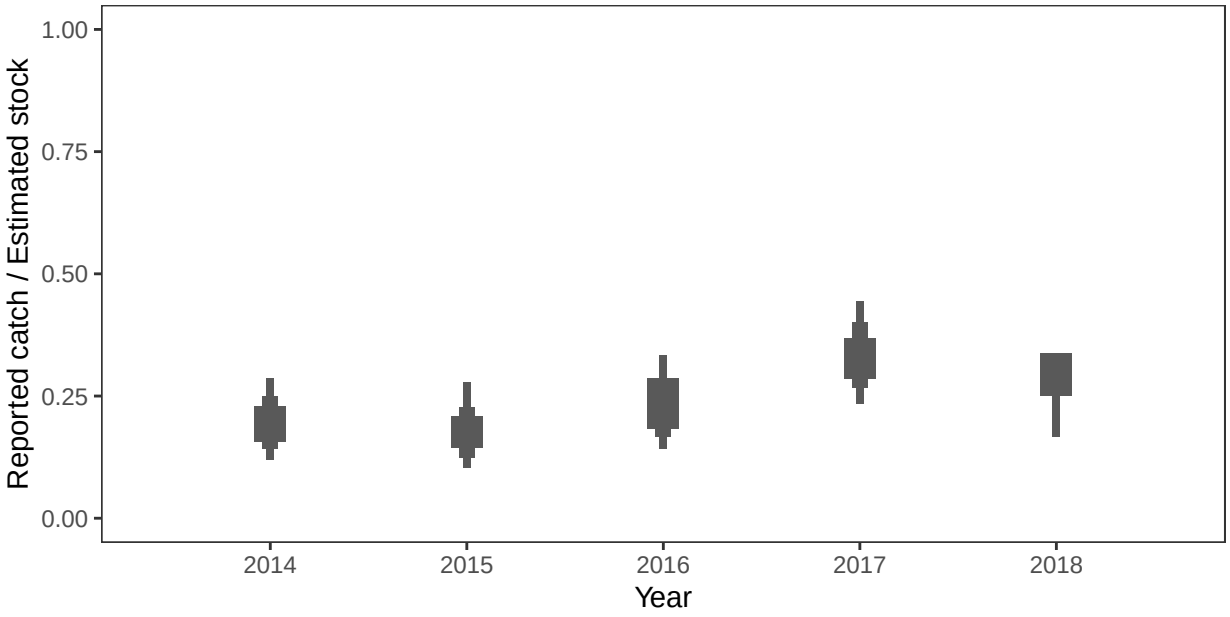

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

*Annual estimated stock*




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

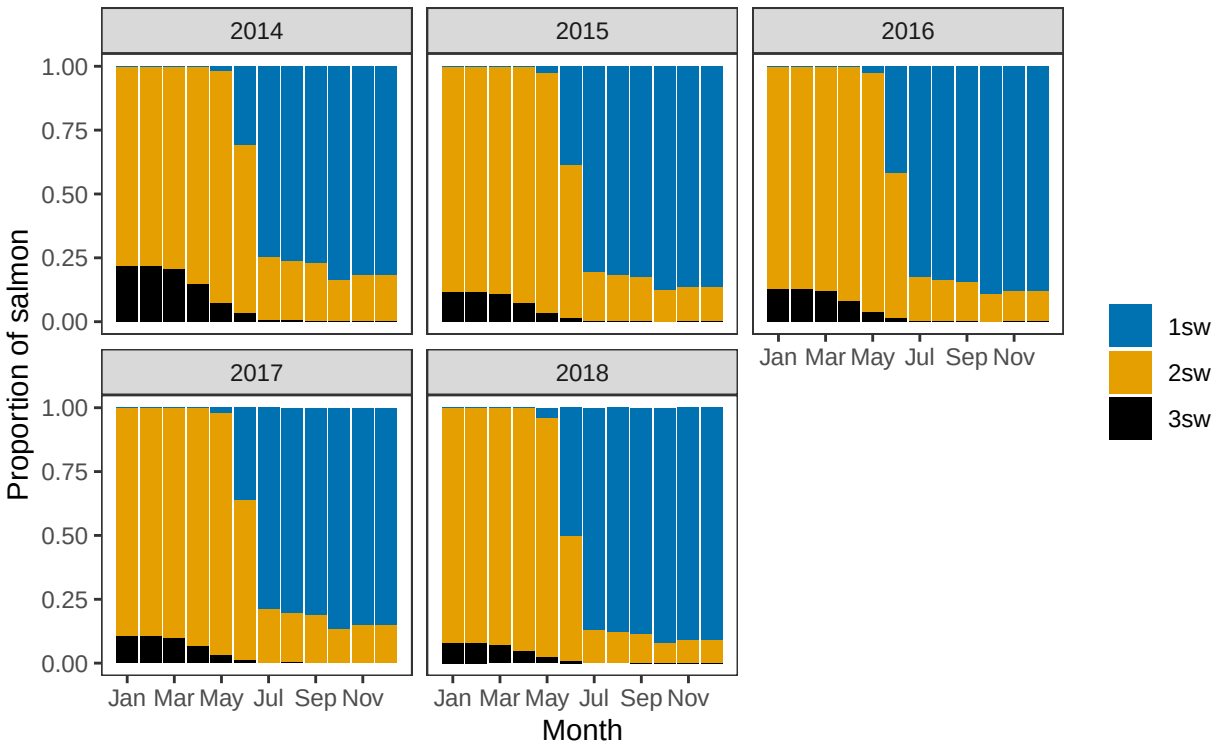
***Annual catch as a proportion of stock***



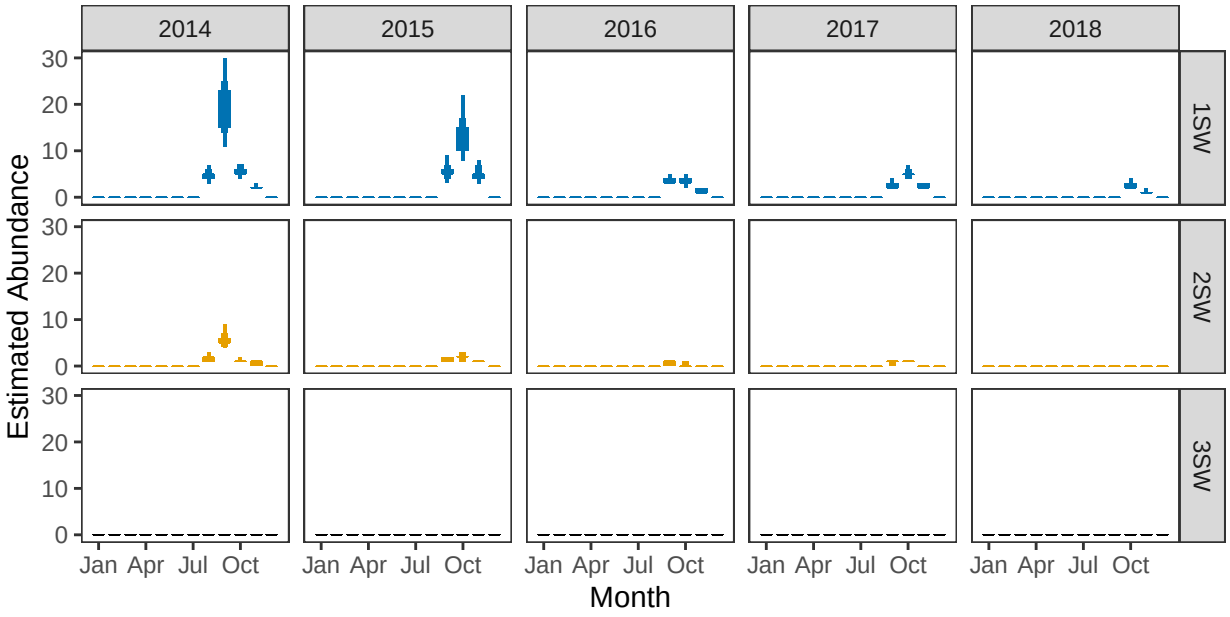

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



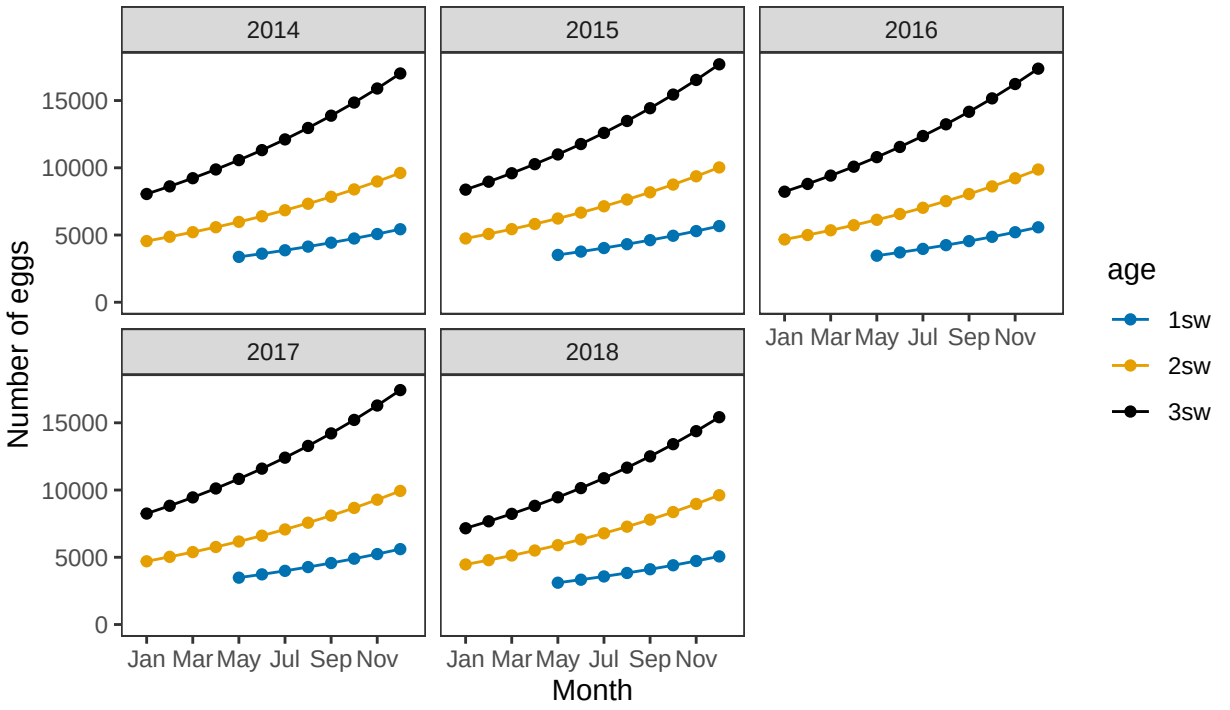
*Monthly number of spawning females*



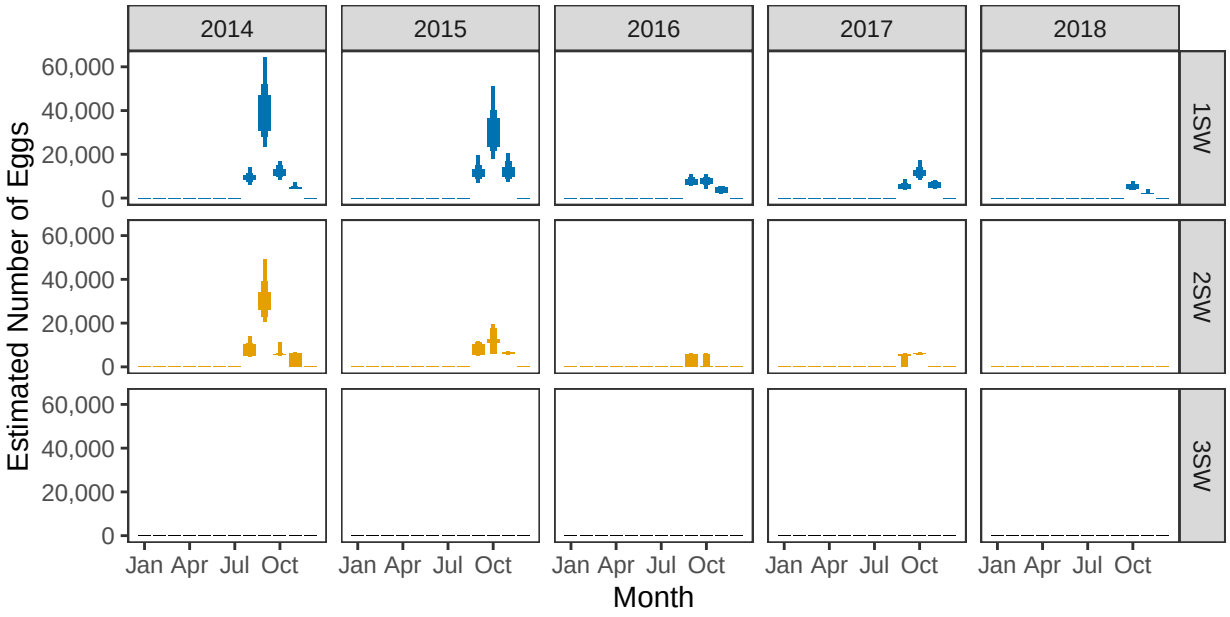

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

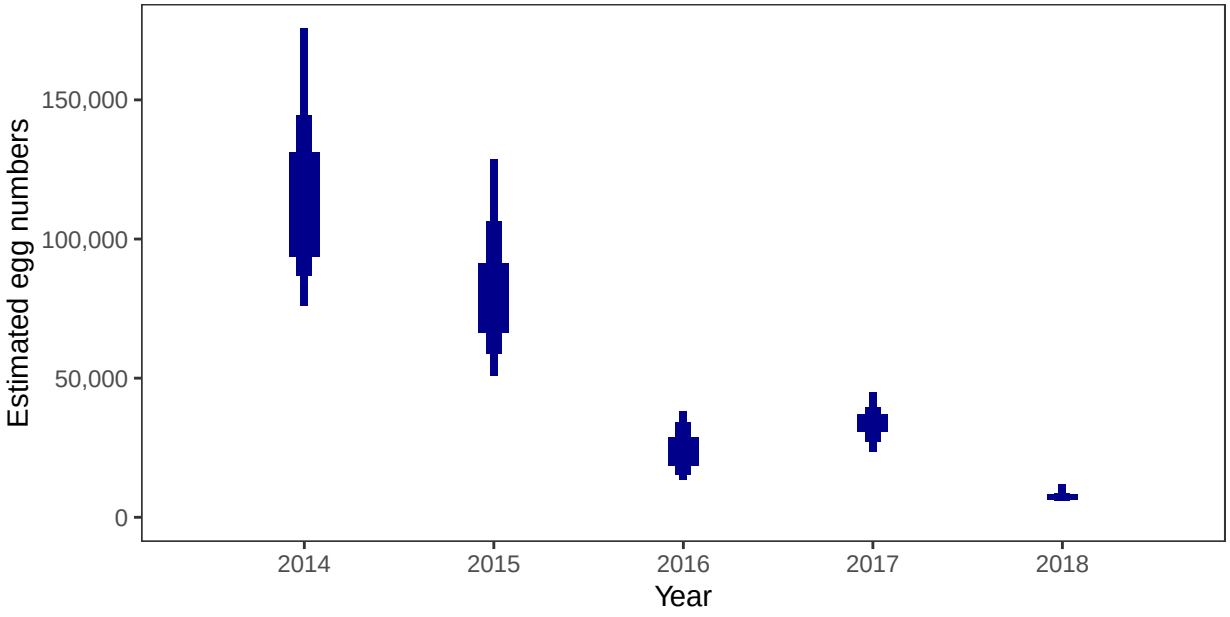


***Monthly number of eggs***




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

***Total annual egg numbers***



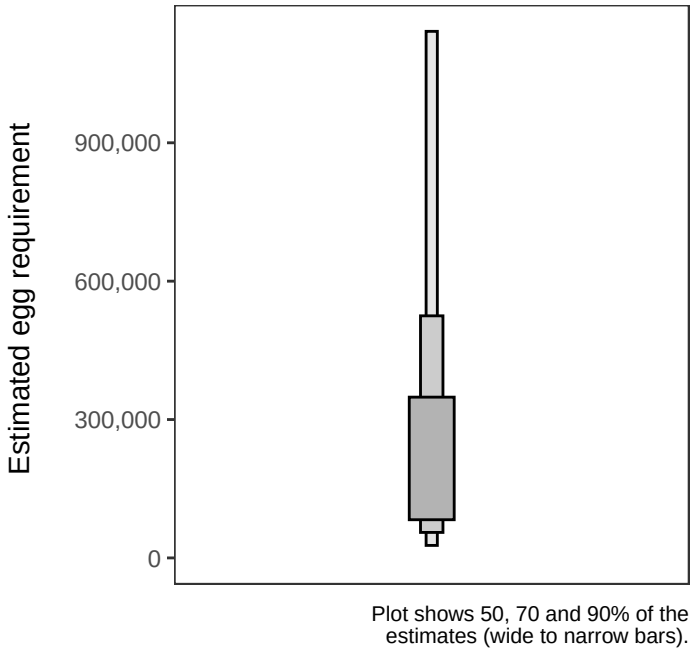

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

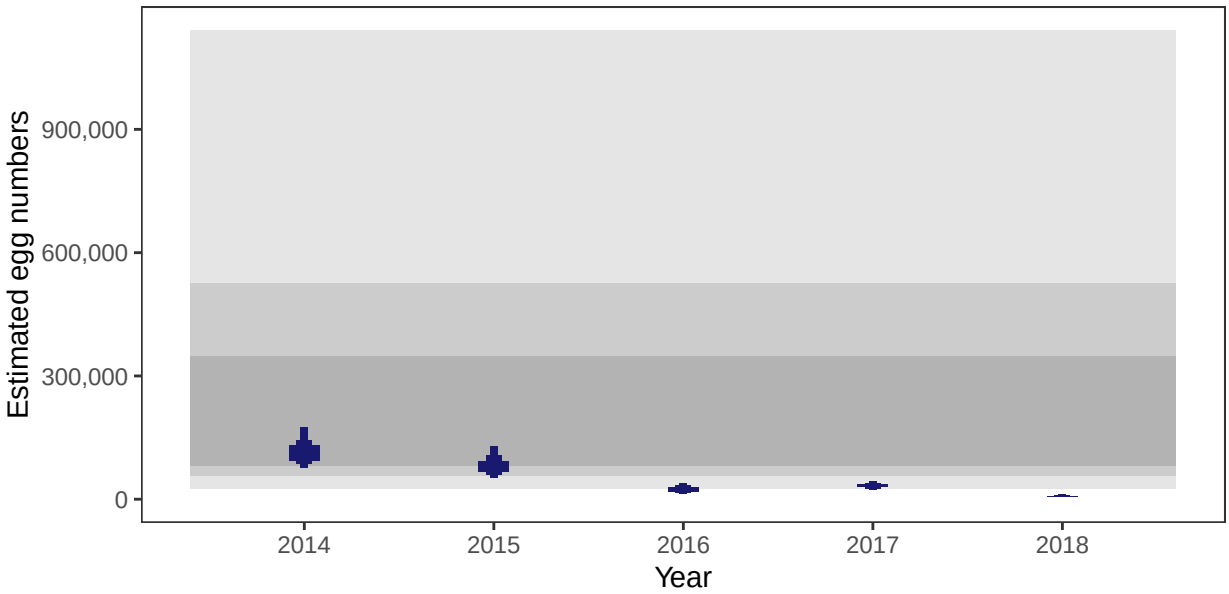
There is an estimated 136,278 square meters of known salmon habitat in the Carradale Water and a further 467 square meters where salmon may be present.

### *Egg requirement*



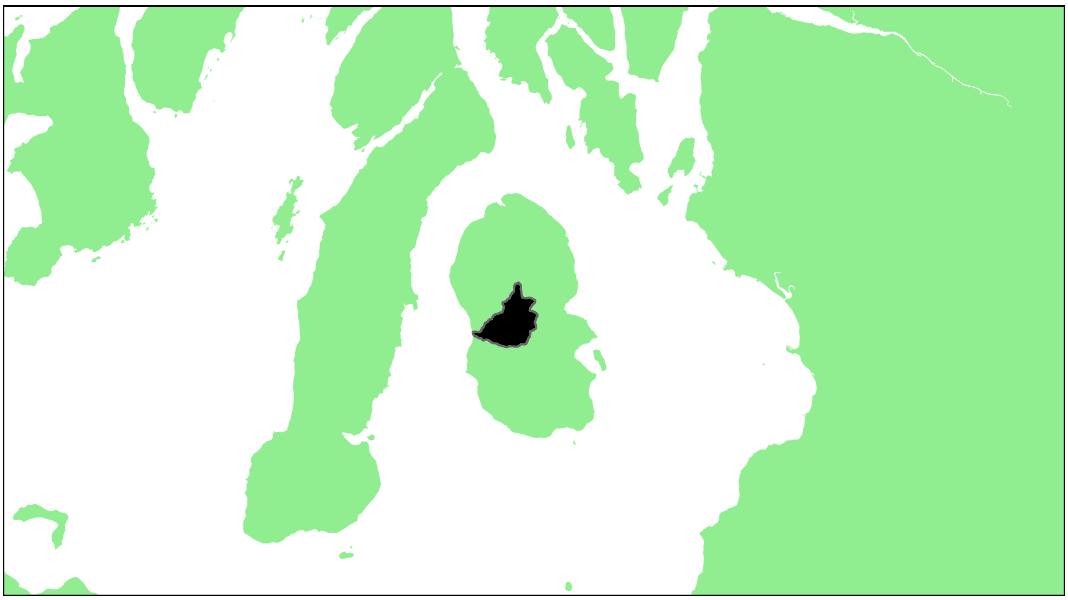

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 35.15 |
| 2015 | 24.19 |
| 2016 | 4.22 |
| 2017 | 7.57 |
| 2018 | 0.74 |




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)

## Machrie Water: Grade 3



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

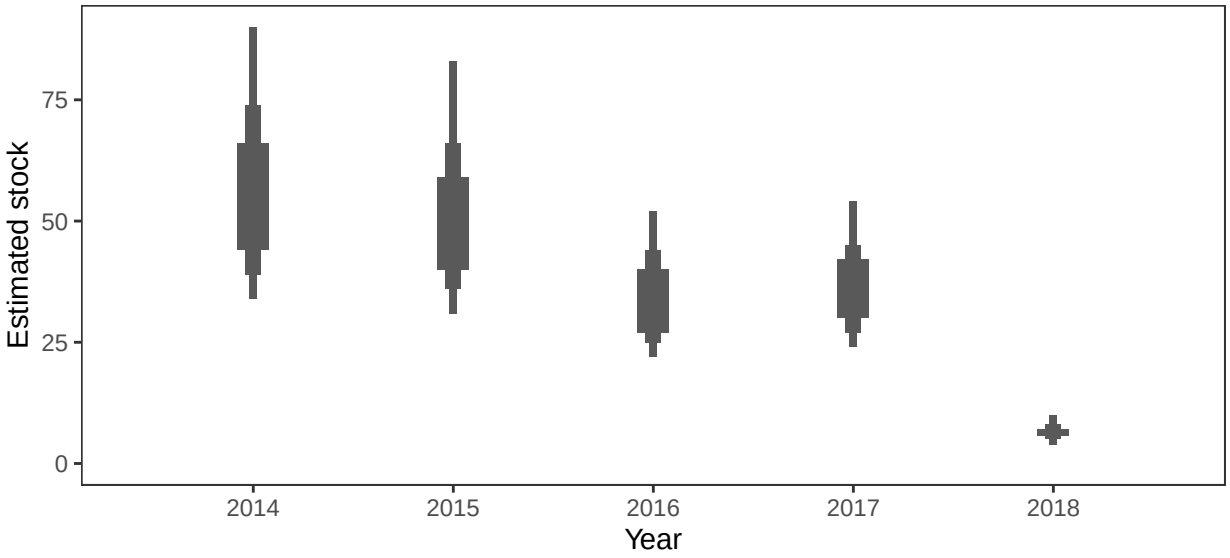
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.2 | 69,800 | 83,558 | 69.84 | 66.27 | 52.49 | 61.28 | 7.21 | 51.42 | 3 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

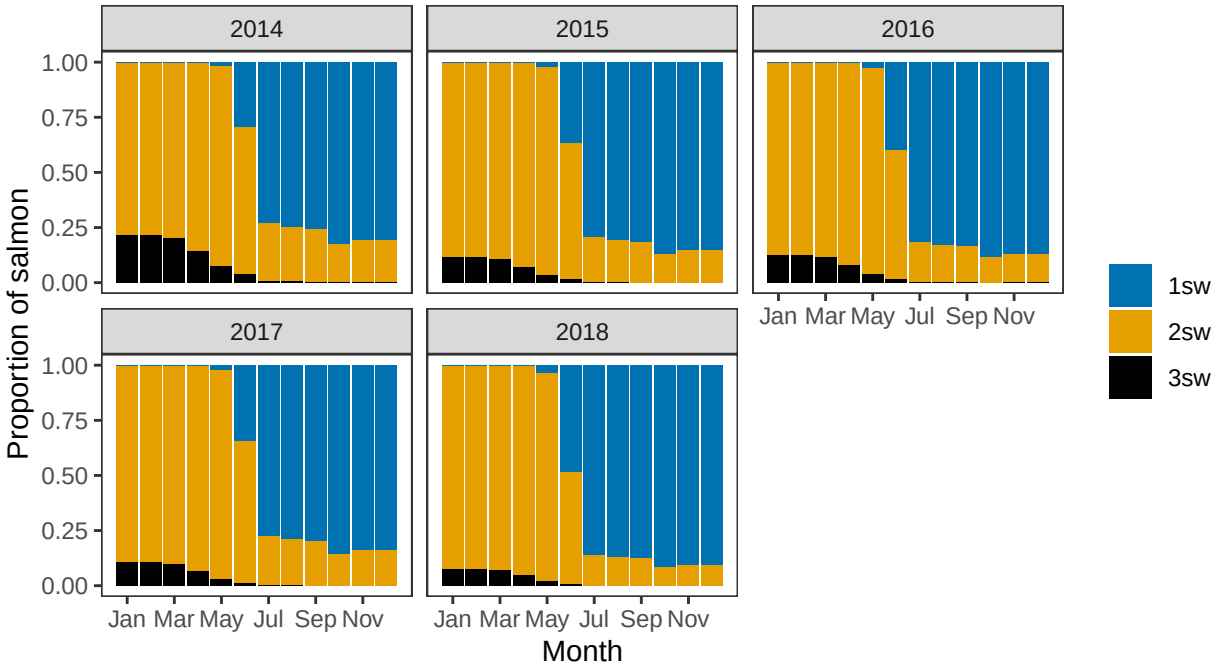
***Annual estimated stock***




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

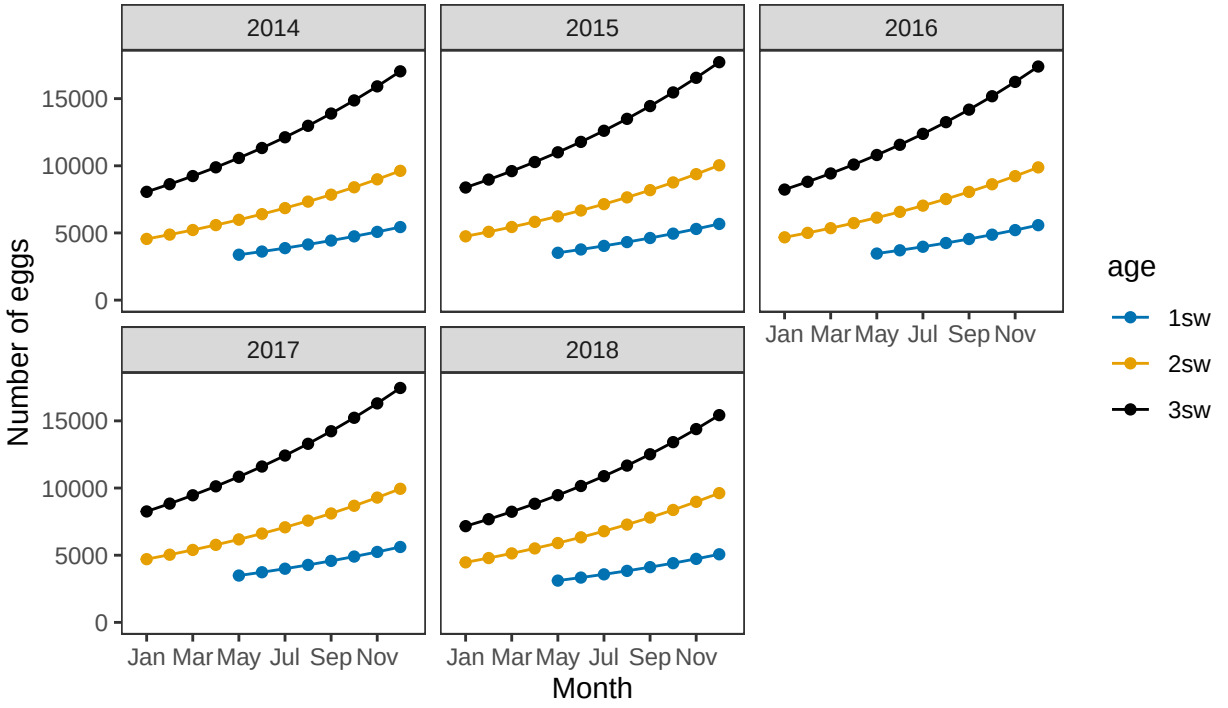
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

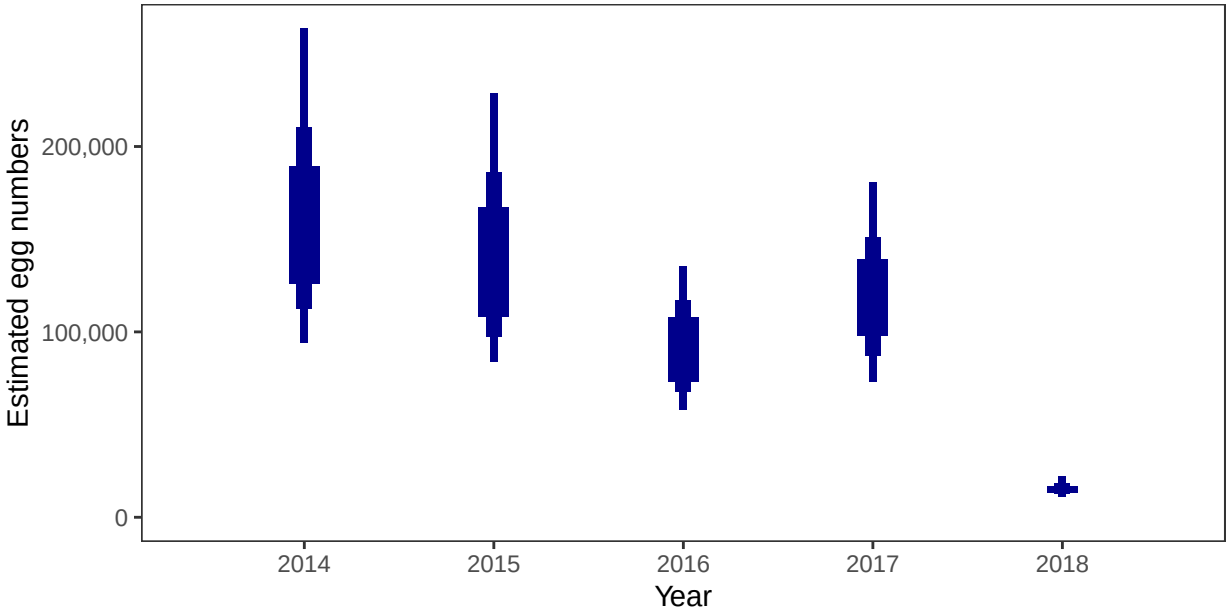


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



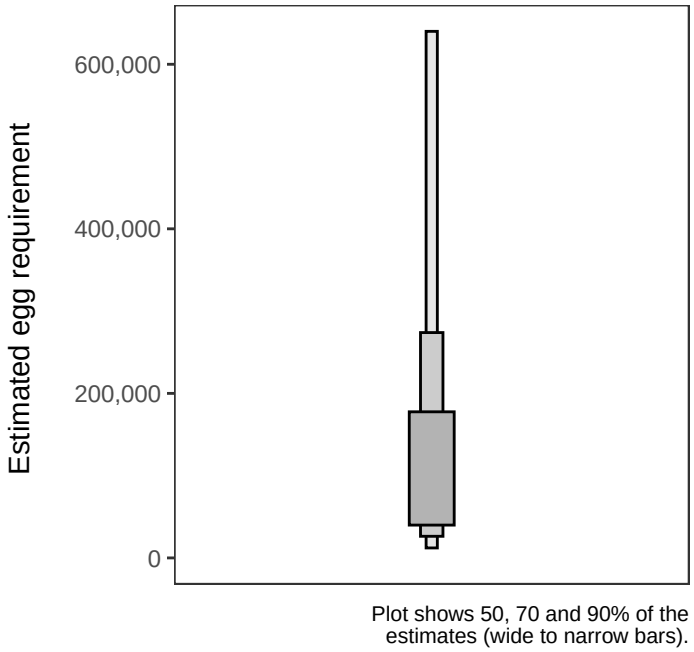

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

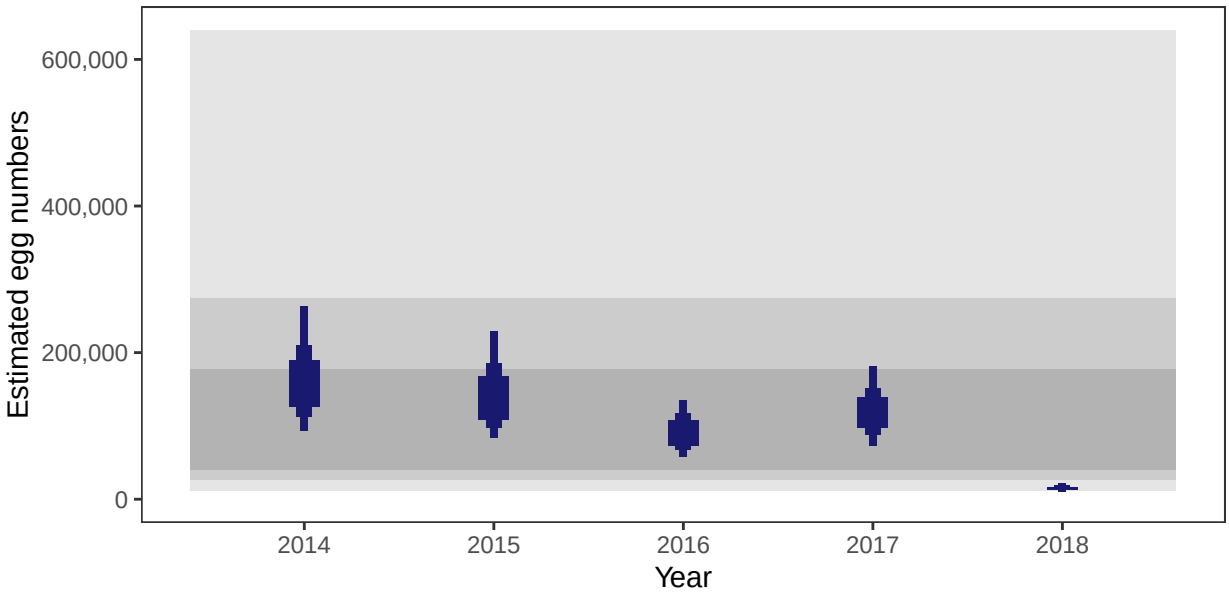
There is an estimated 72,971 square meters of known salmon habitat in the Machrie Water and a further 6,397 square meters where salmon may be present.

### *Egg requirement*



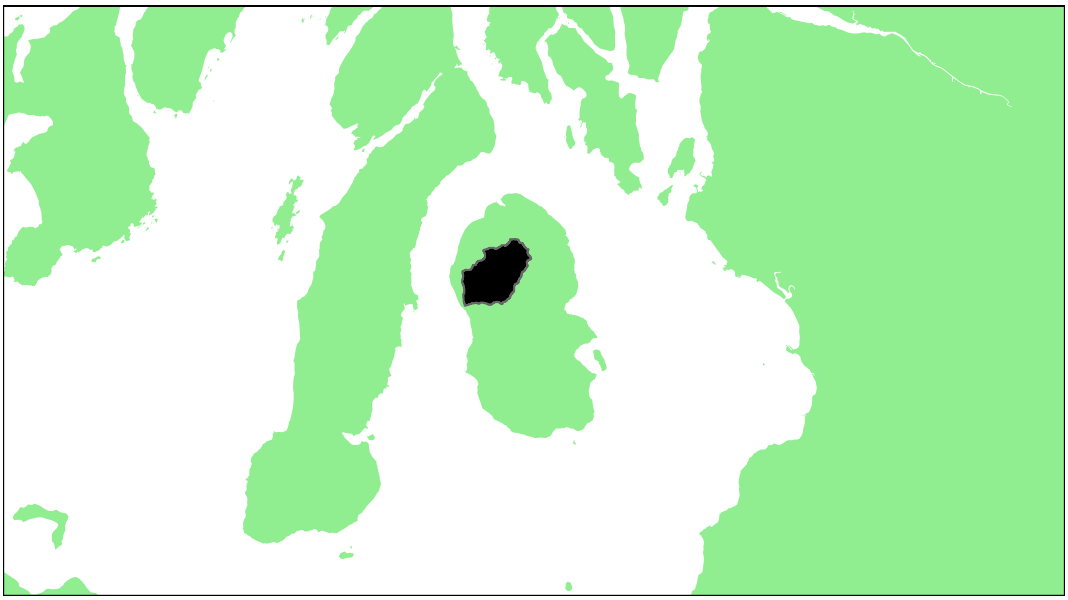

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 69.84 |
| 2015 | 66.27 |
| 2016 | 52.49 |
| 2017 | 61.28 |
| 2018 | 7.21 |




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)

## Iorsa Water: Grade 3



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

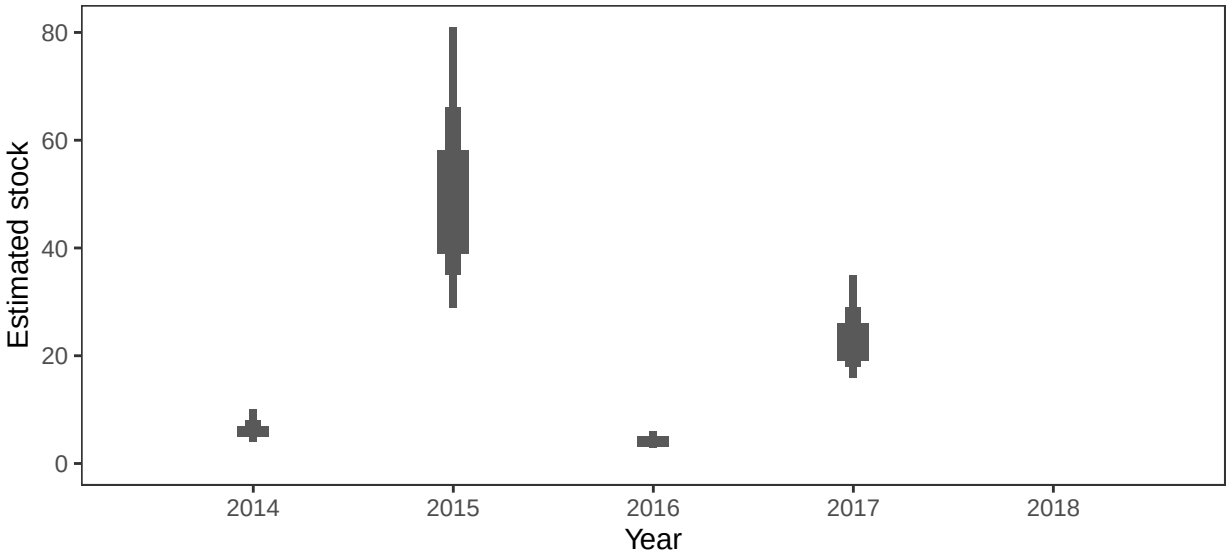
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.05 | 155,400 | 162,839 | 3.46 | 41.7 | 2.02 | 19.44 | 0 | 13.32 | 3 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

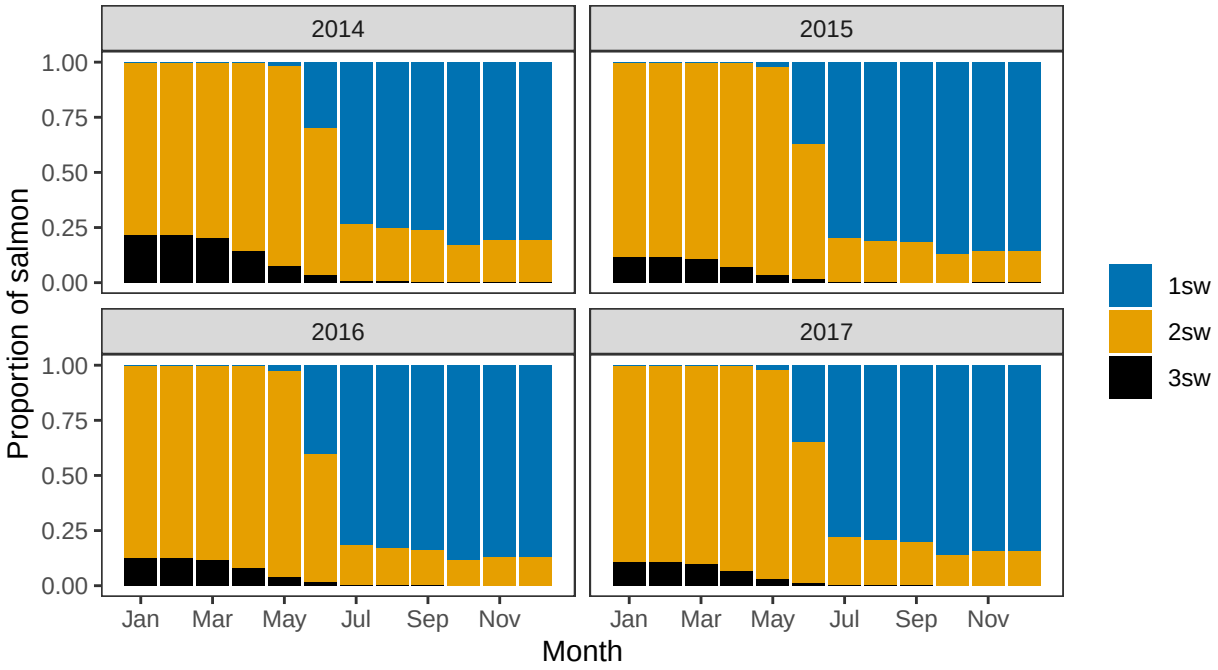
***Annual estimated stock***




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

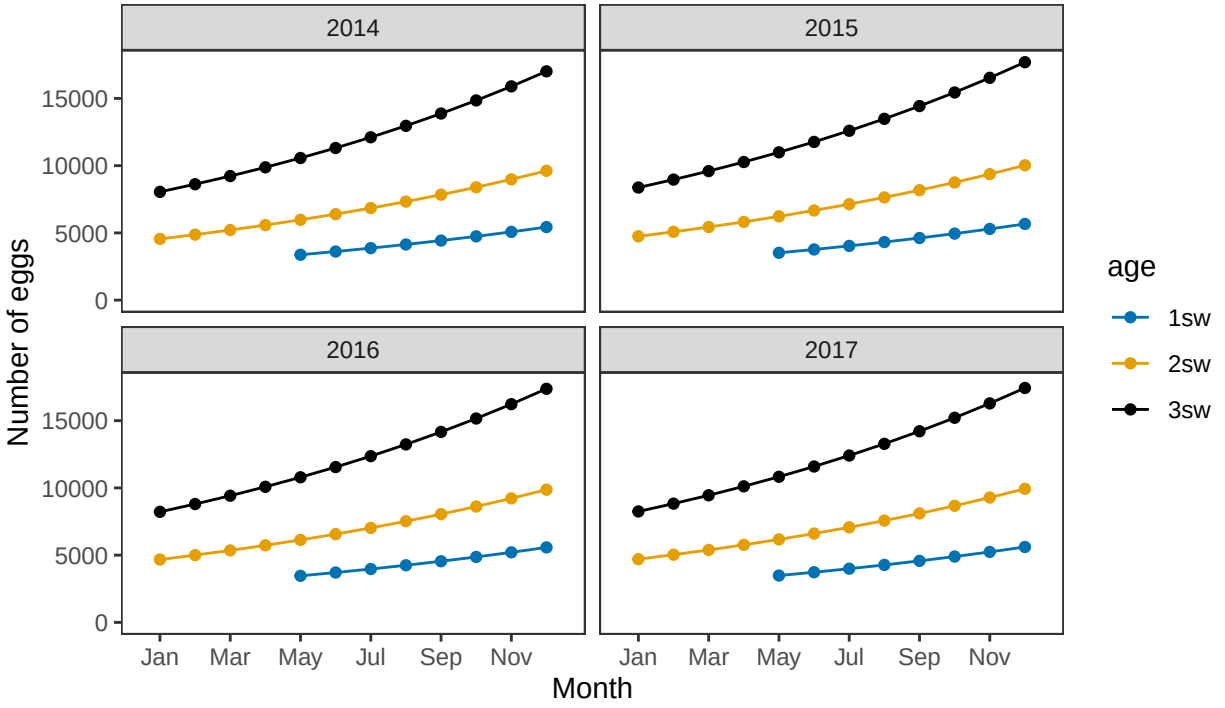
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

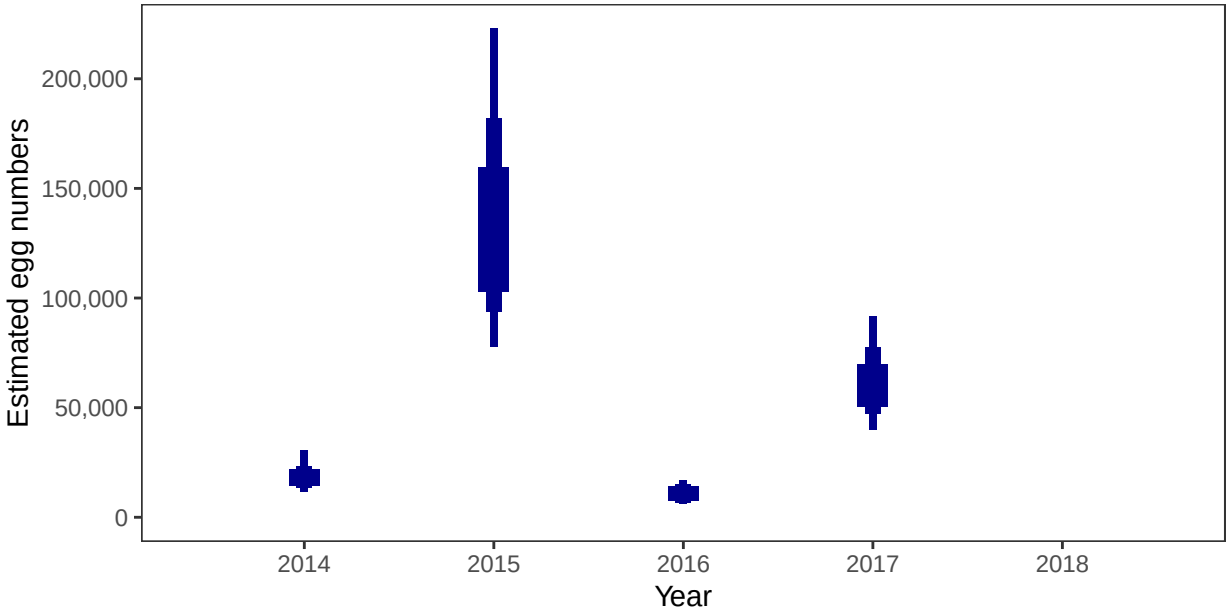


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



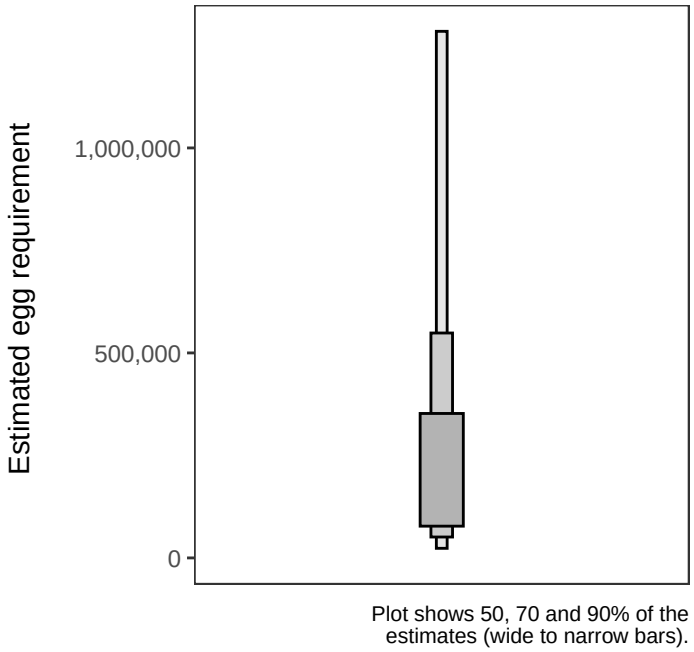

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

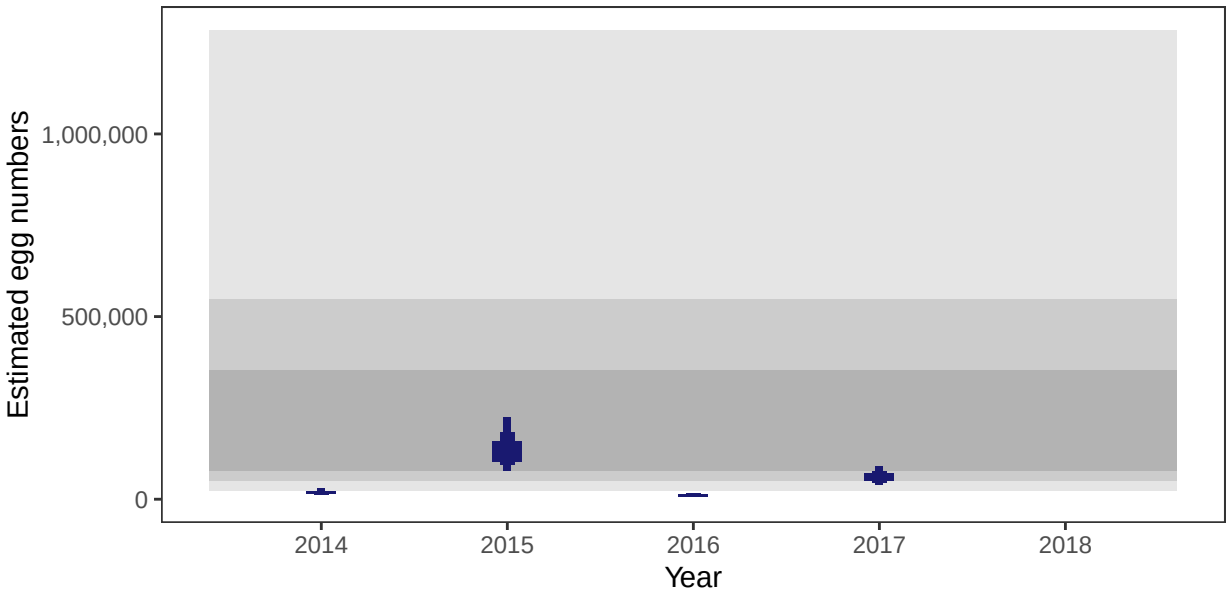
There is an estimated 127,543 square meters of known salmon habitat in the Iorsa Water and a further 49,026 square meters where salmon may be present.

***Egg requirement***



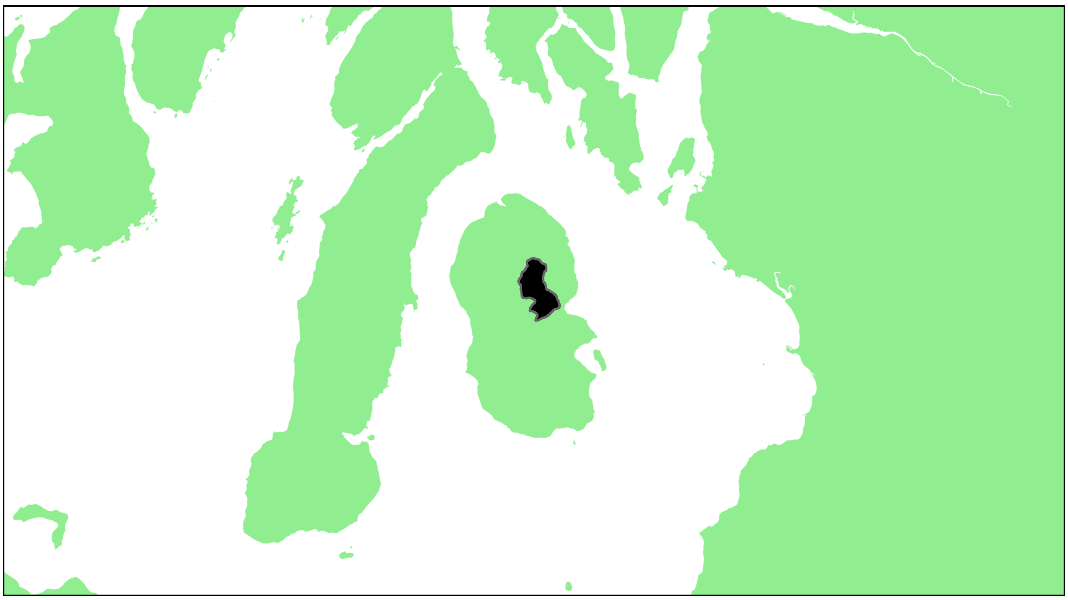

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 3.46 |
| 2015 | 41.70 |
| 2016 | 2.02 |
| 2017 | 19.44 |
| 2018 | - |




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)

## Glenrosa Water: Grade 3



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

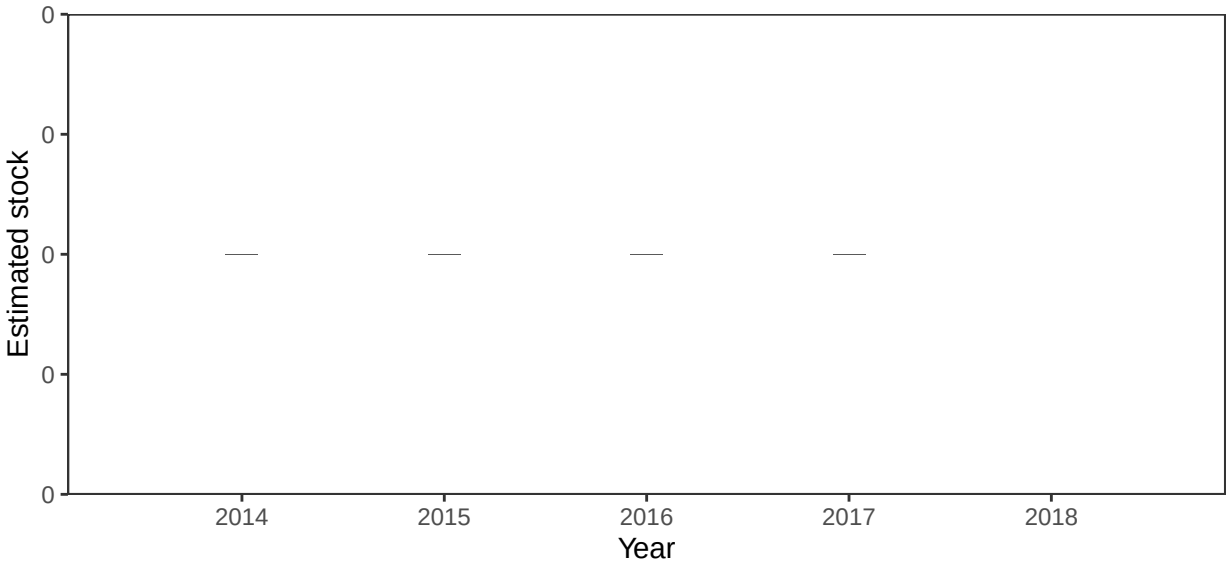
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.23 | 43,300 | 53,056 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

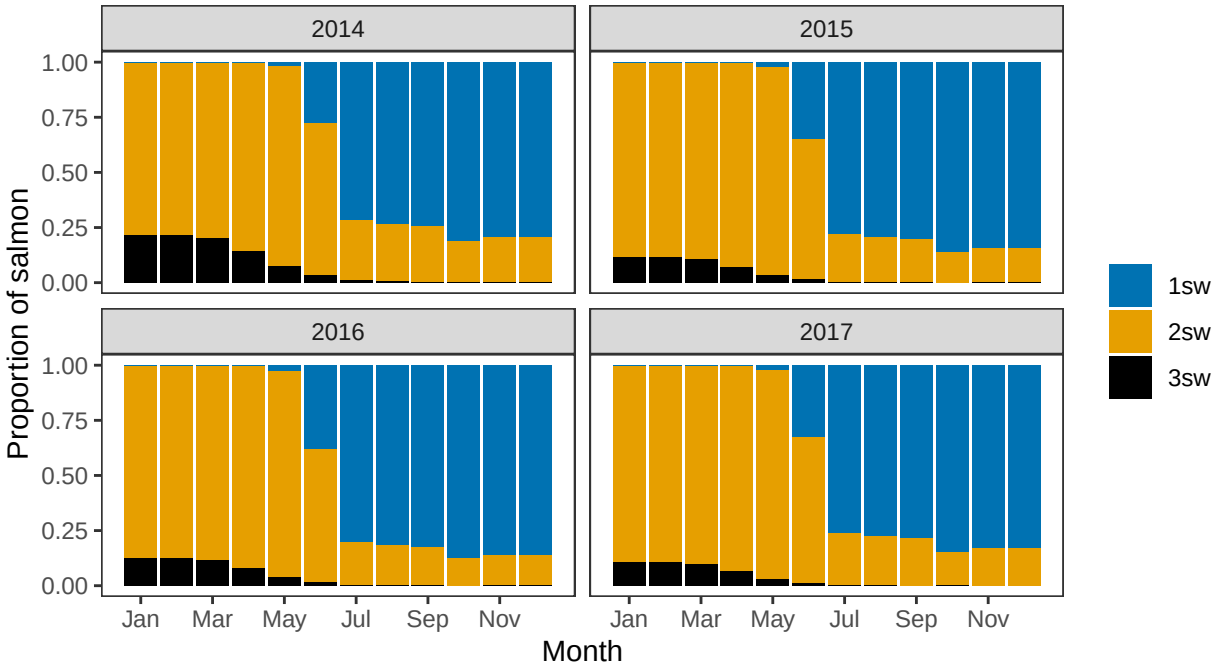
***Annual estimated stock***




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

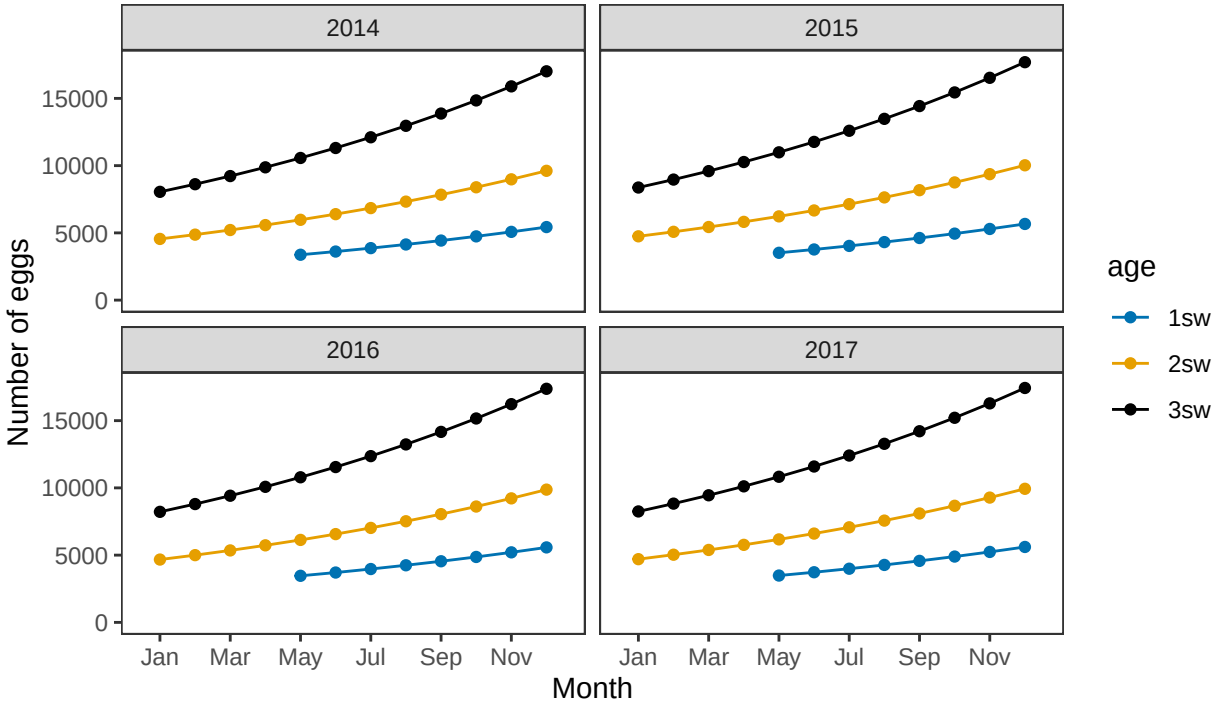
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

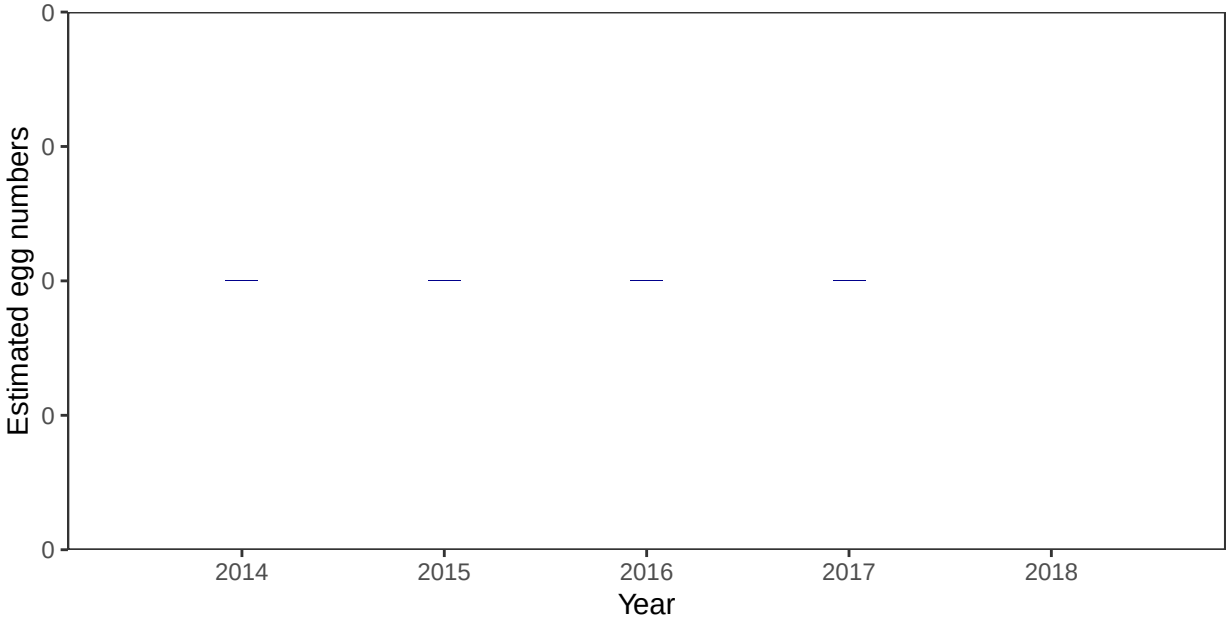


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



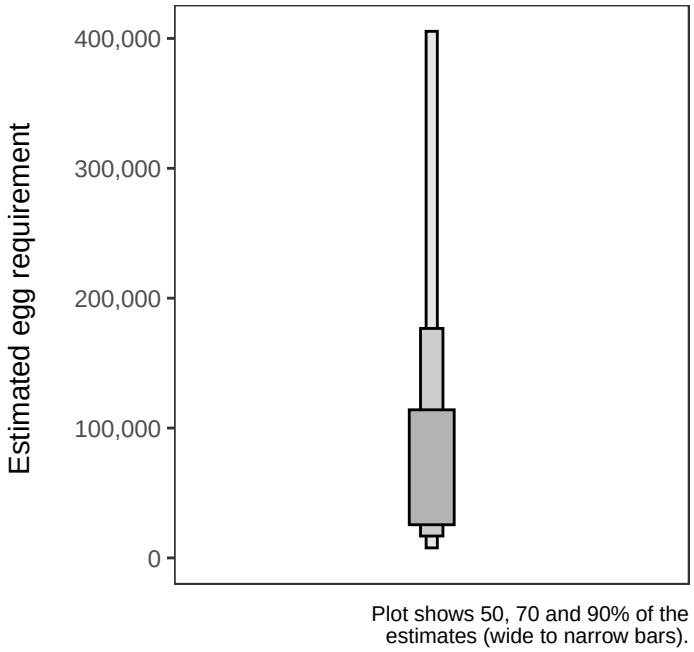

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

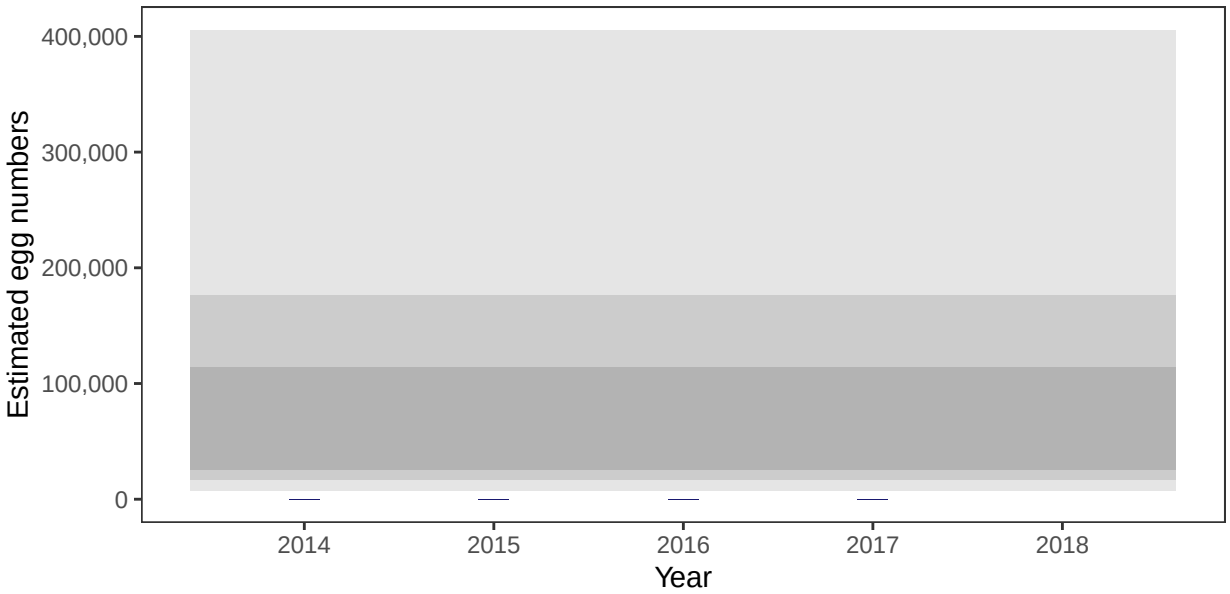
There is an estimated 49,156 square meters of known salmon habitat in the Glenrosa Water and a further 0 square meters where salmon may be present.

### *Egg requirement*



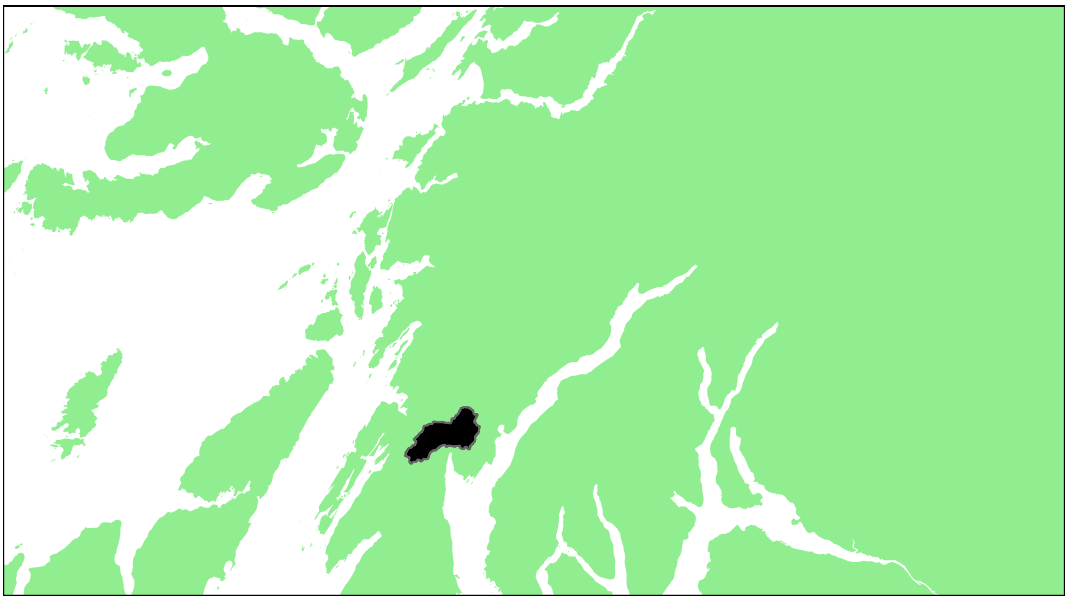

## 5. Percentage chance that the egg requirement has been reached

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




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)

## Cuilarstich Burn: Grade 3



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

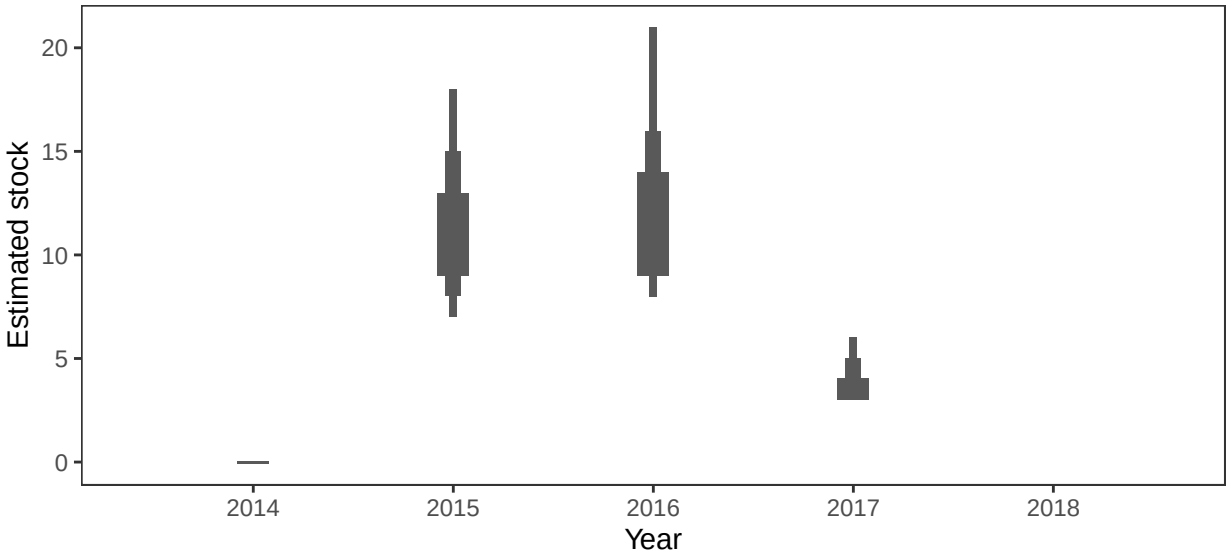
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.96 | 23,400 | 45,896 | 0 | 25.46 | 28.77 | 7.85 | 0 | 12.42 | 3 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

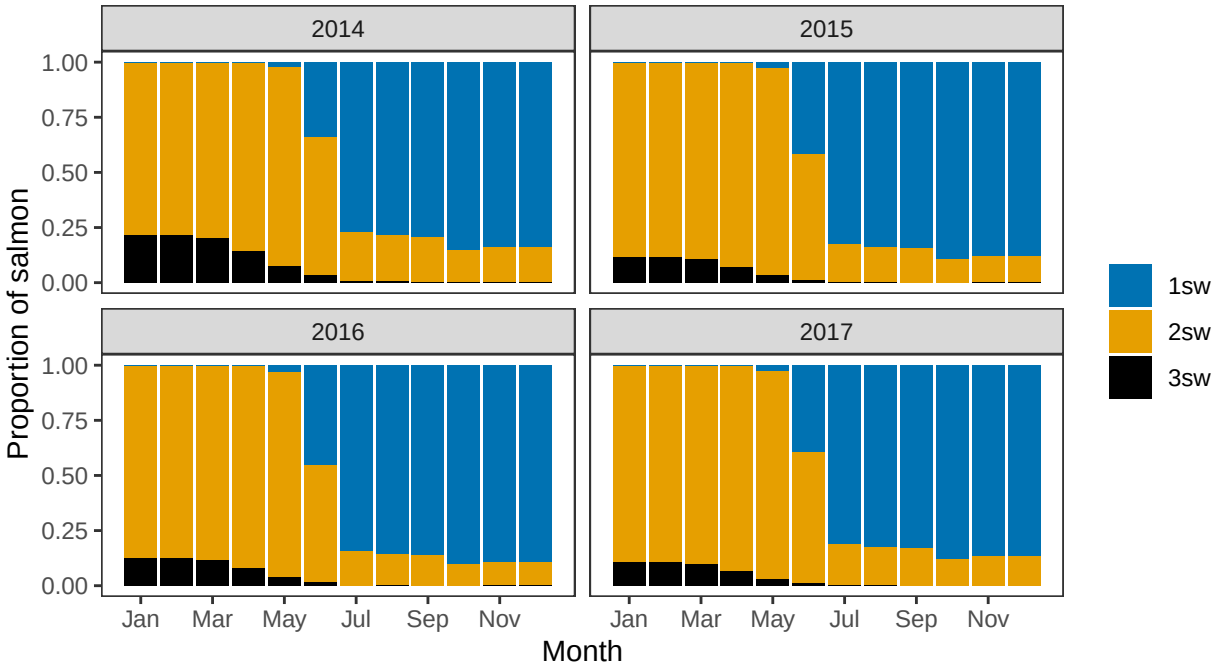
***Annual estimated stock***




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

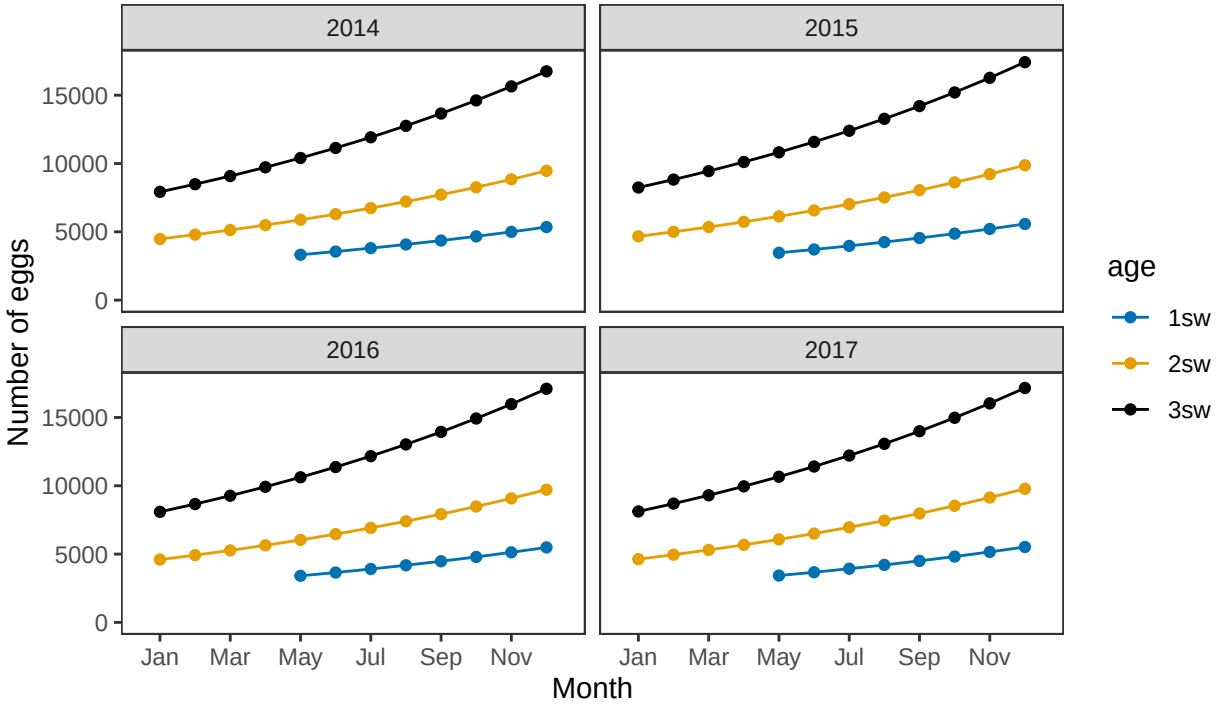
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

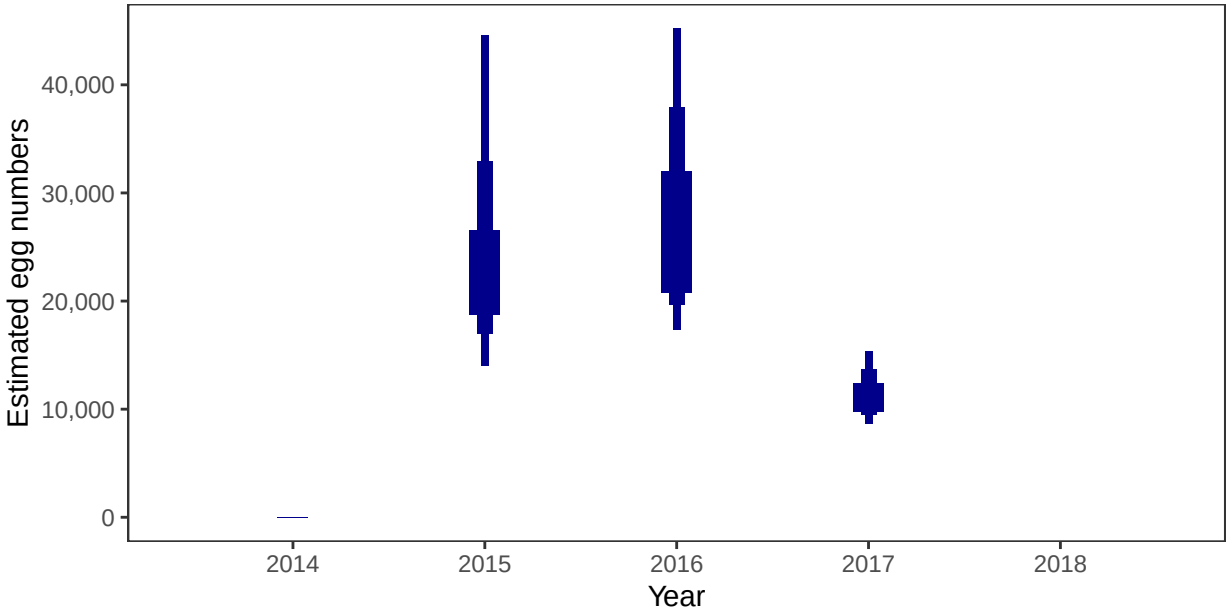


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



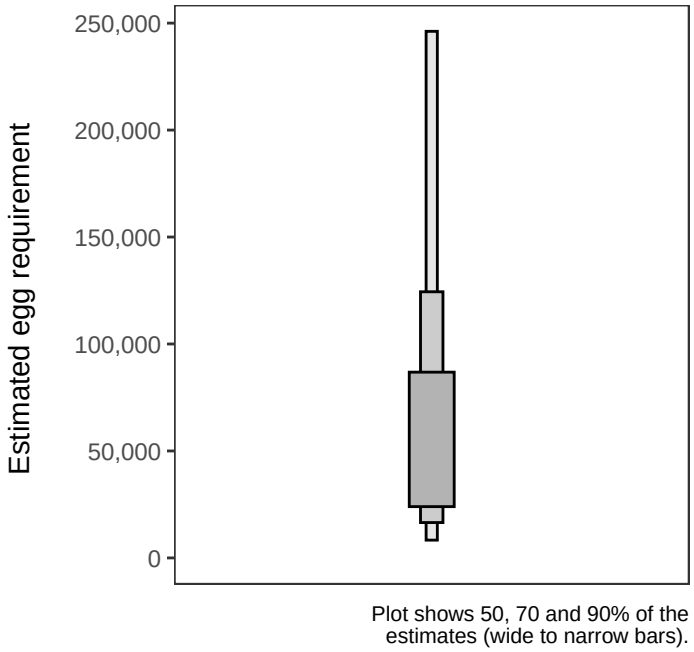

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

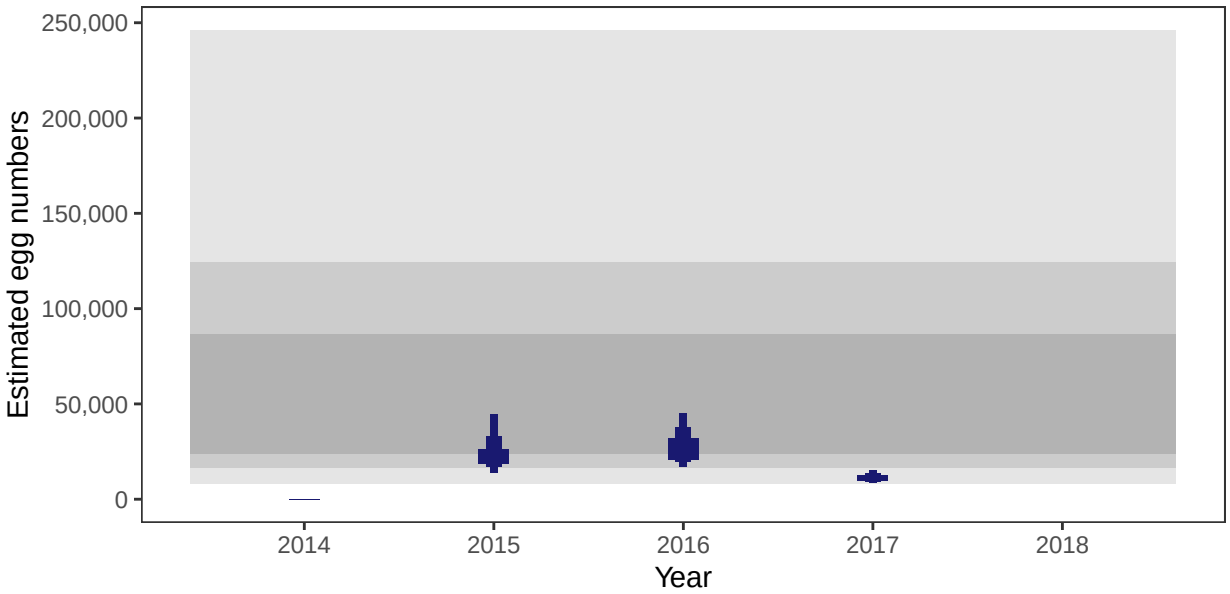
There is an estimated 18,804 square meters of known salmon habitat in the Cuilarstich Burn and a further 7,763 square meters where salmon may be present.

### *Egg requirement*



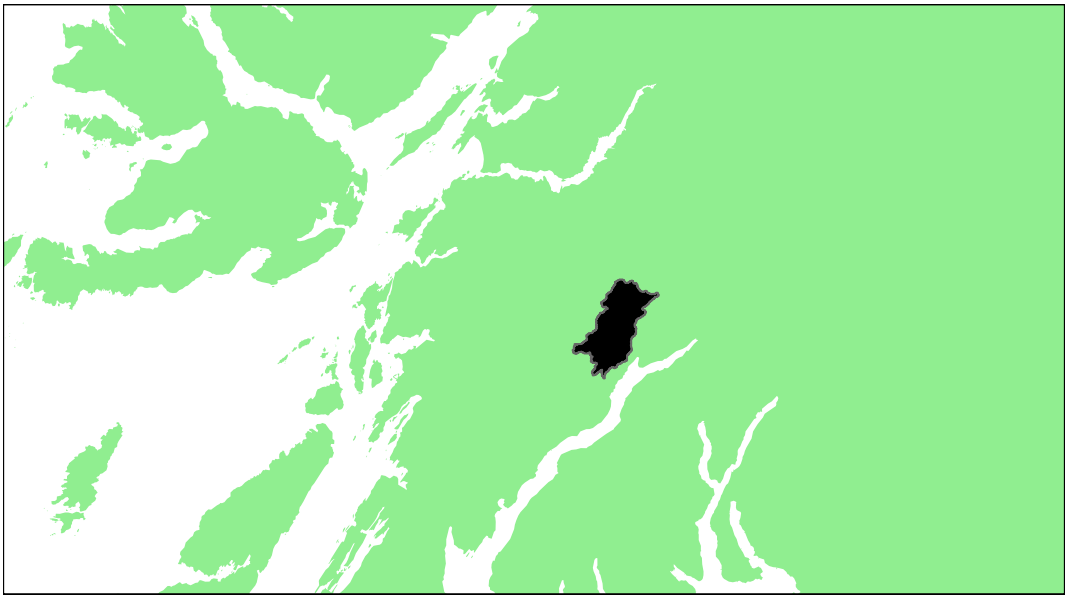

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | - |
| 2015 | 25.46 |
| 2016 | 28.77 |
| 2017 | 7.85 |
| 2018 | - |




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 Aray: Grade 3



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

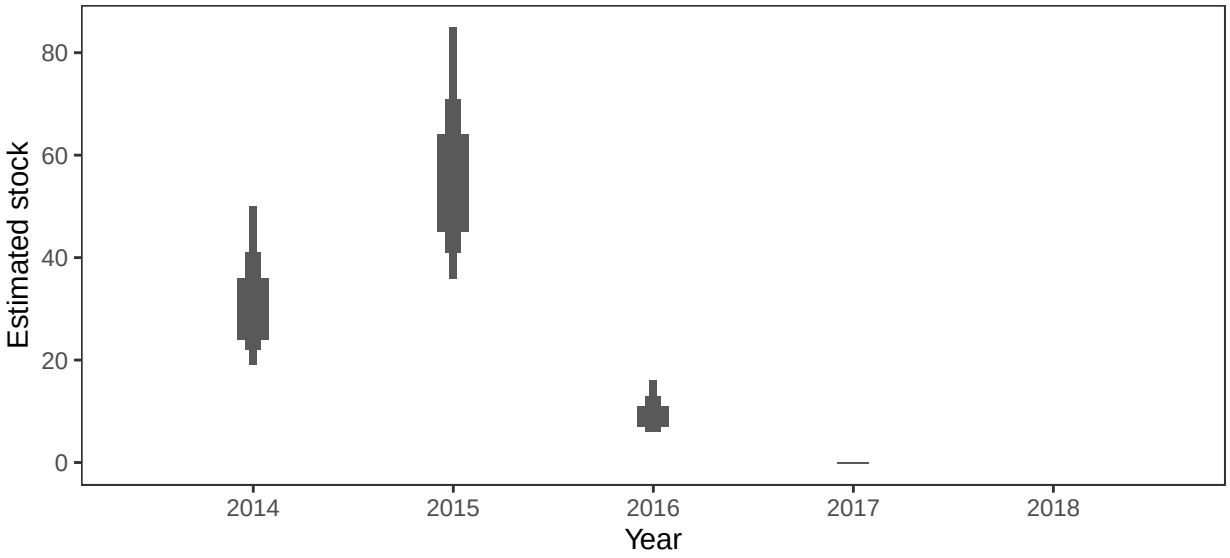
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 2.12 | 168,400 | 356,510 | 7.83 | 18.26 | 0.8 | 0 | 0 | 5.38 | 3 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

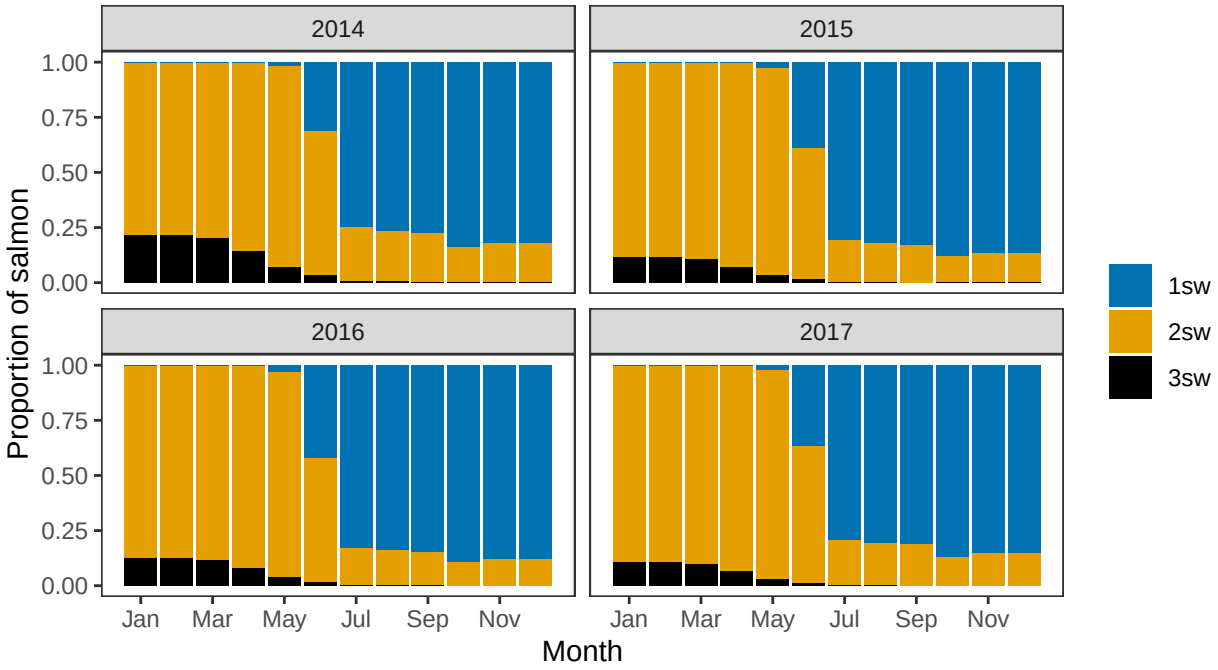
***Annual estimated stock***




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

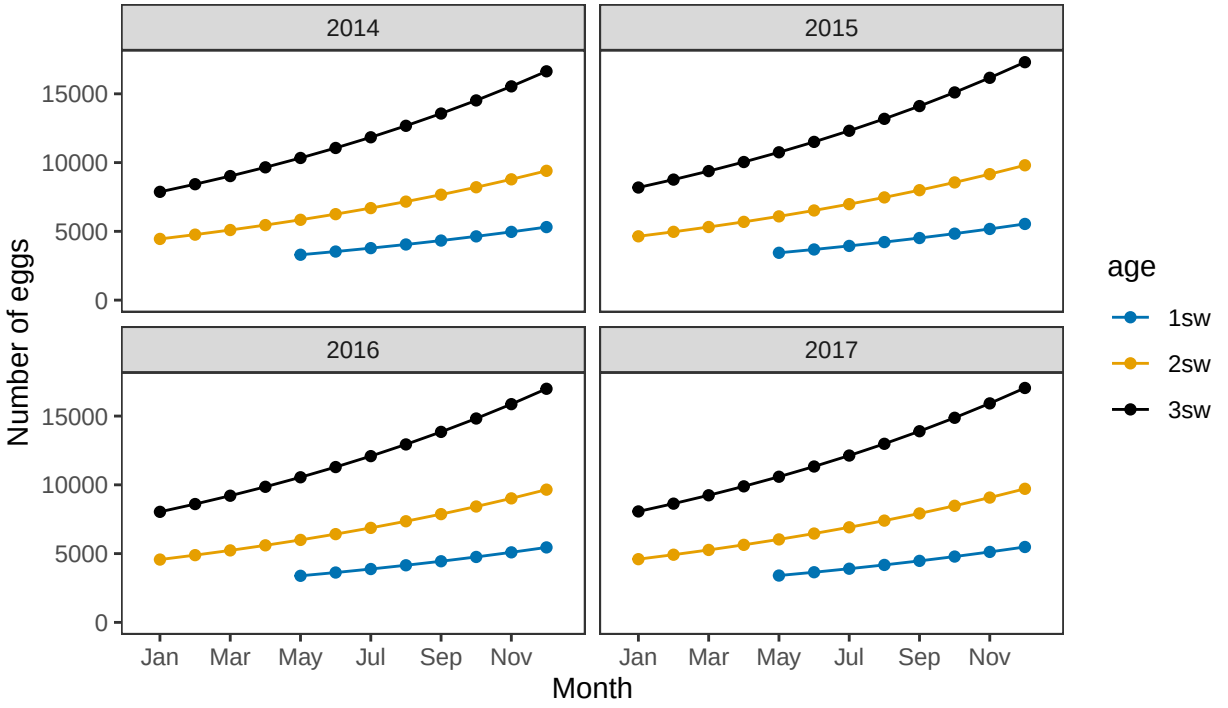
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

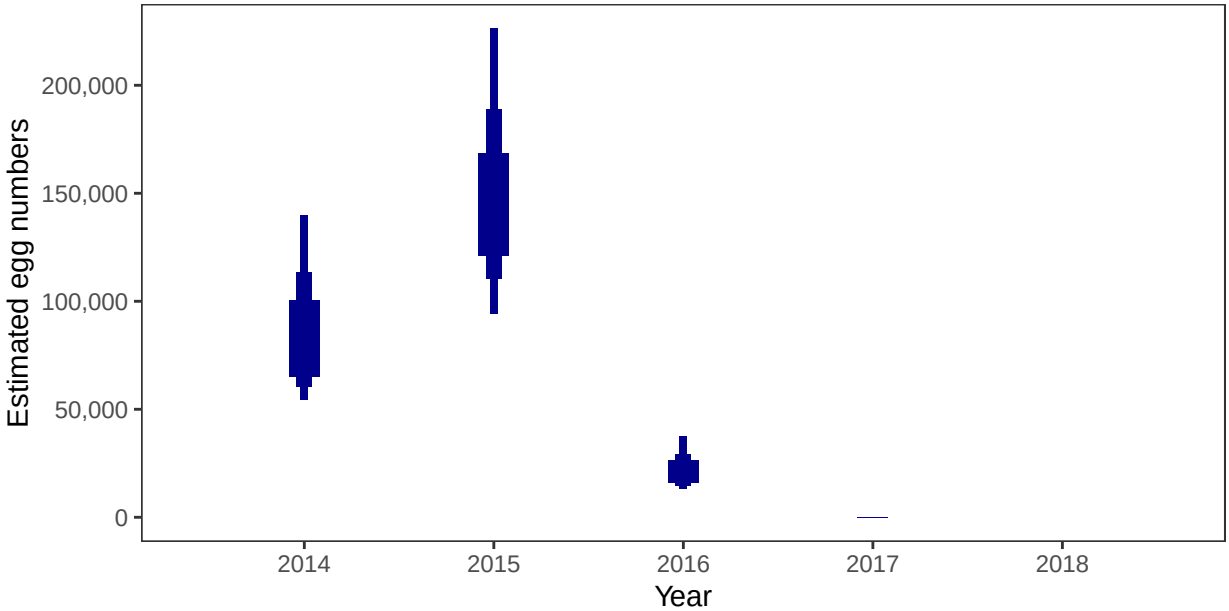


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



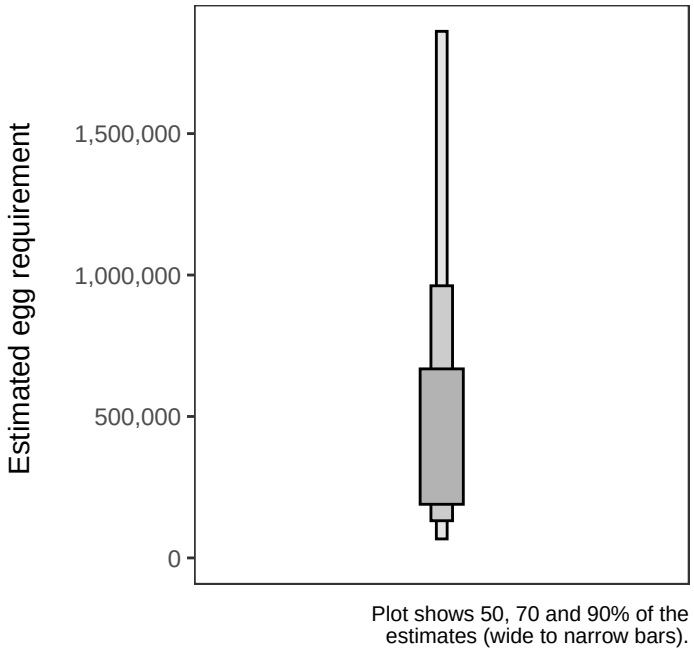

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

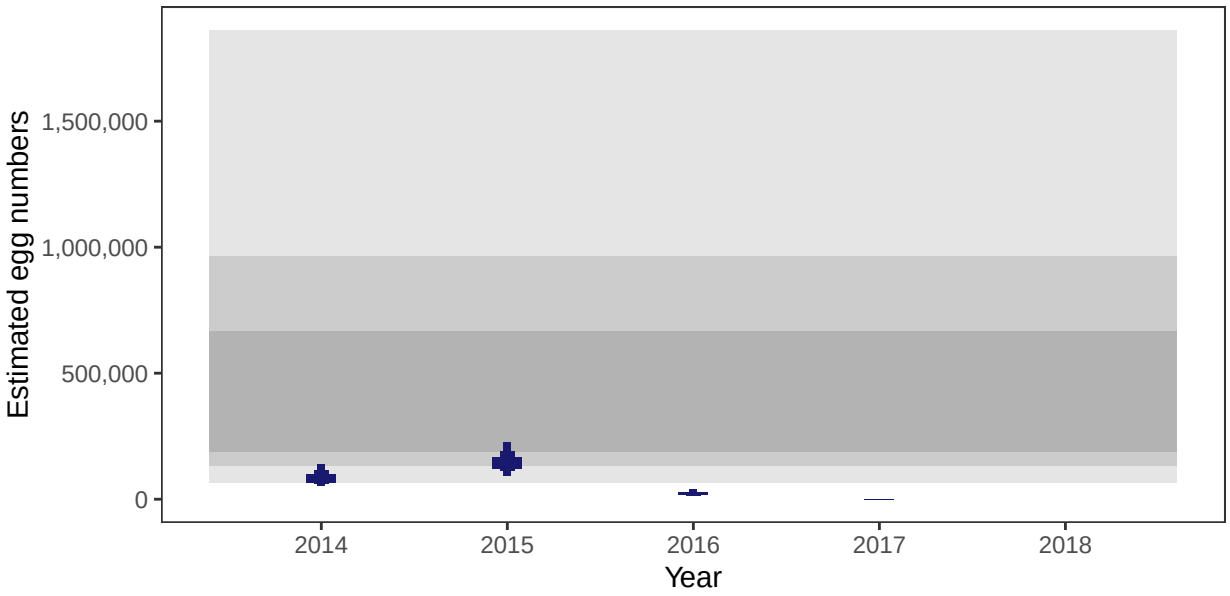
There is an estimated 159,539 square meters of known salmon habitat in the River Aray and a further 31,797 square meters where salmon may be present.

***Egg requirement***



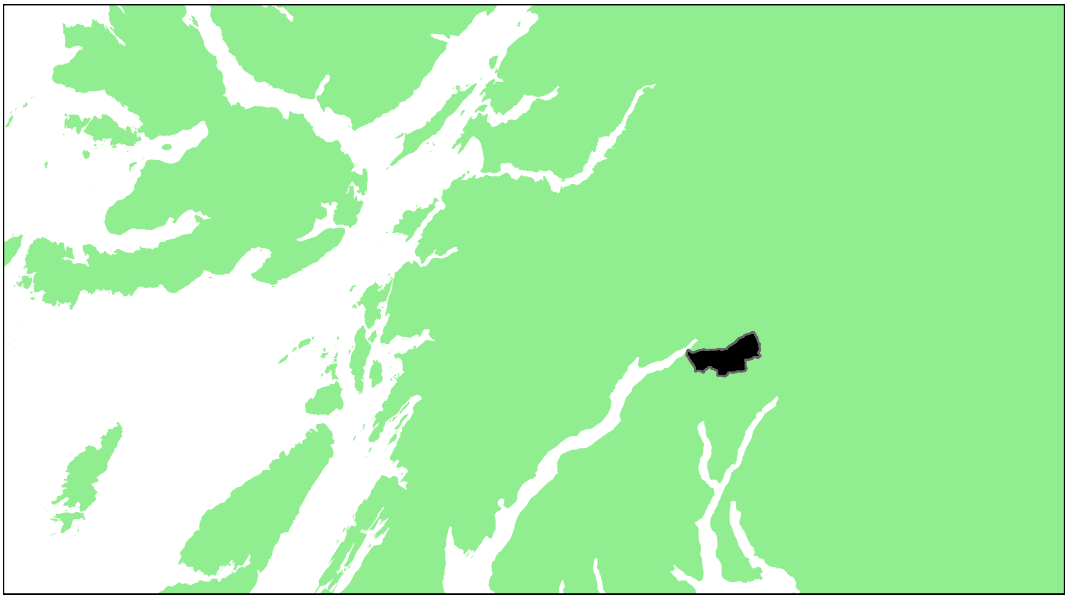

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 7.83 |
| 2015 | 18.26 |
| 2016 | 0.80 |
| 2017 | - |
| 2018 | - |




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)

## Kinglas Water: Grade 3



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

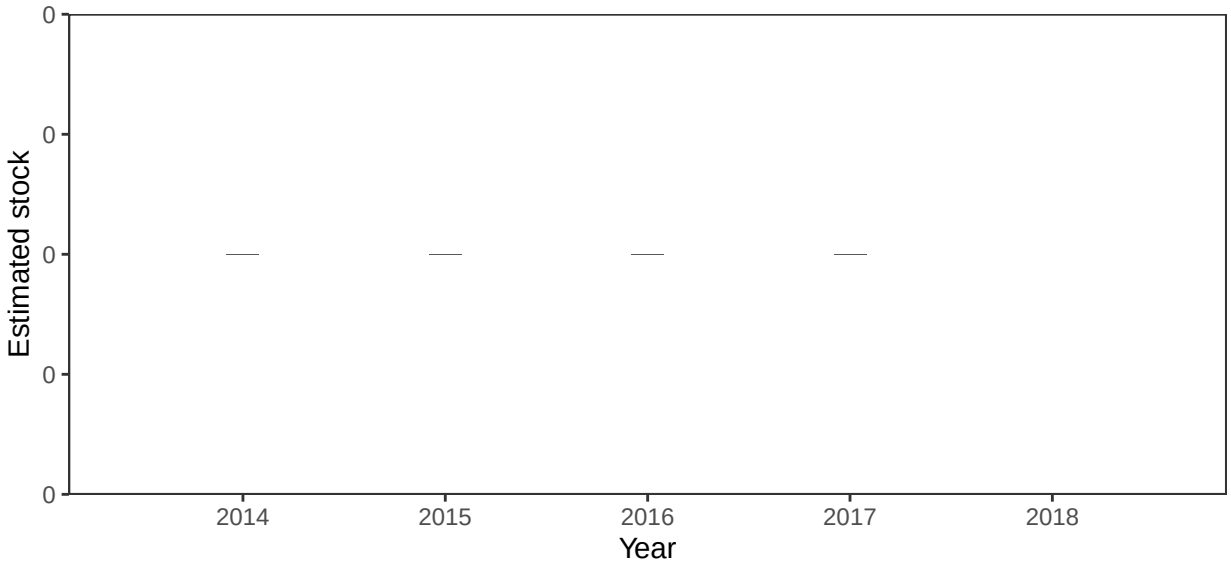
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 2.09 | 10,400 | 21,692 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

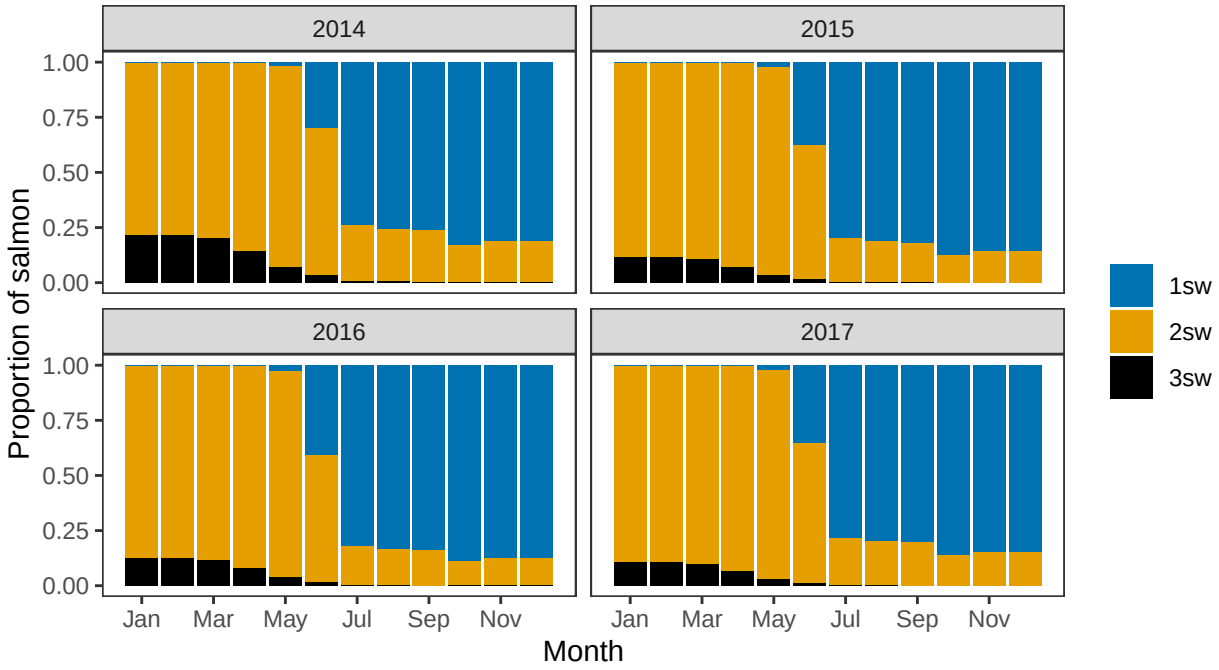
***Annual estimated stock***




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

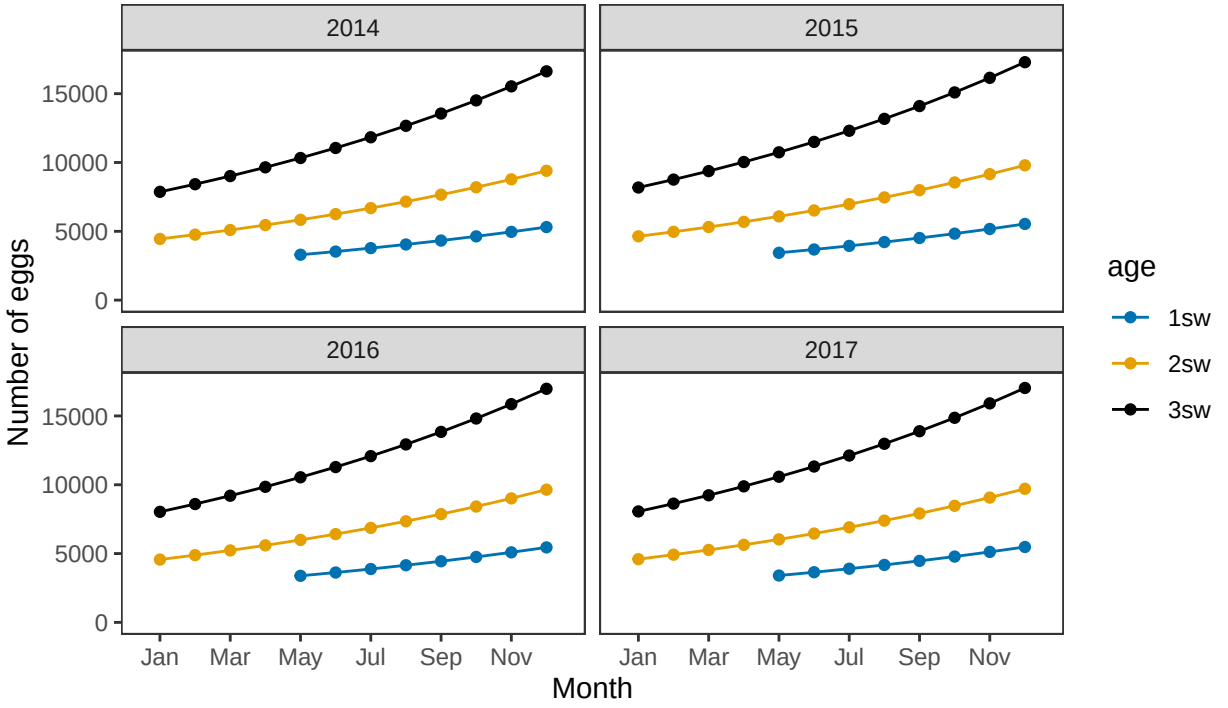
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

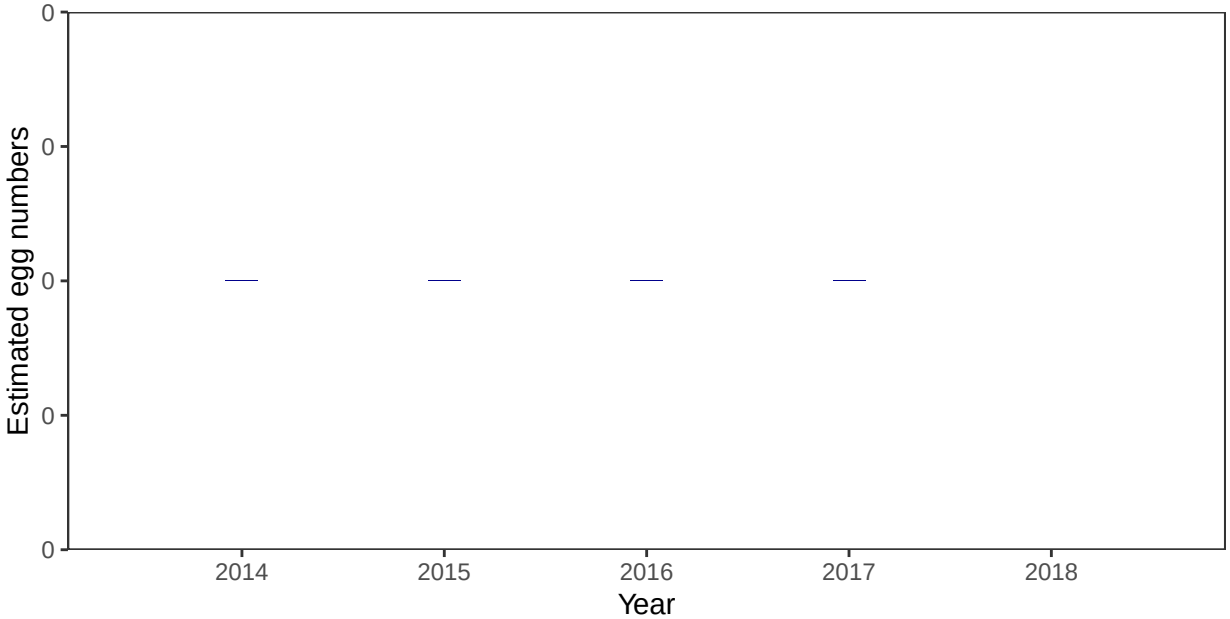


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



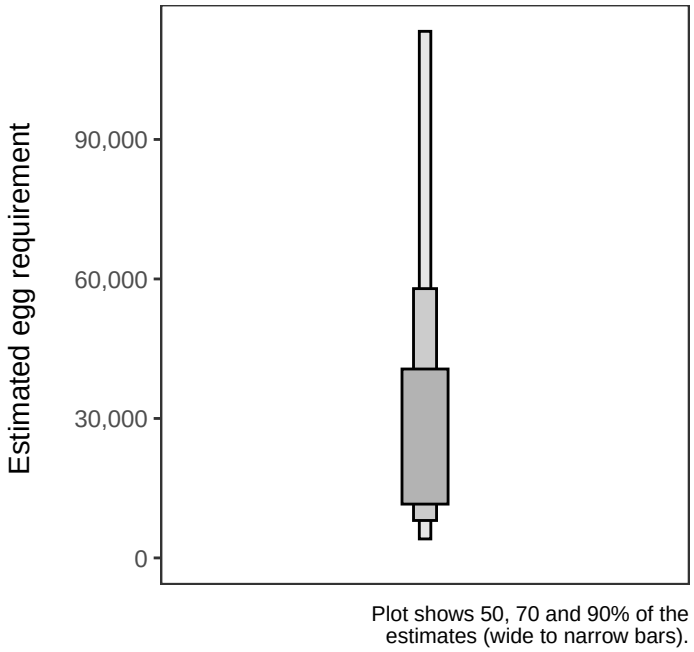

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

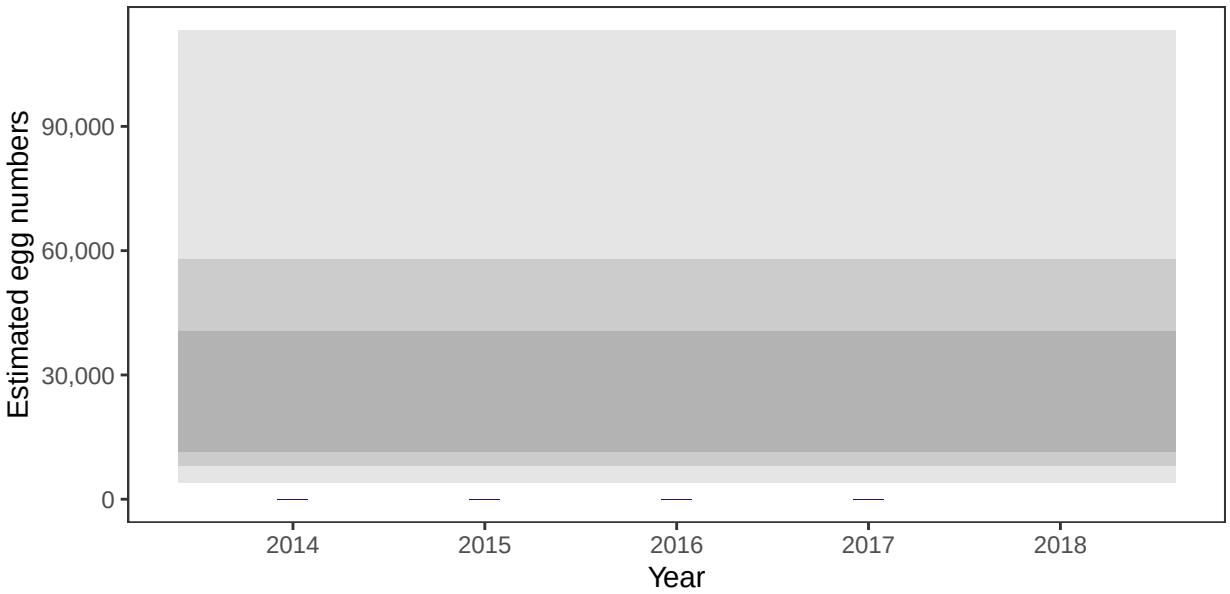
There is an estimated 9,524 square meters of known salmon habitat in the Kinglas Water and a further 2,335 square meters where salmon may be present.

***Egg requirement***



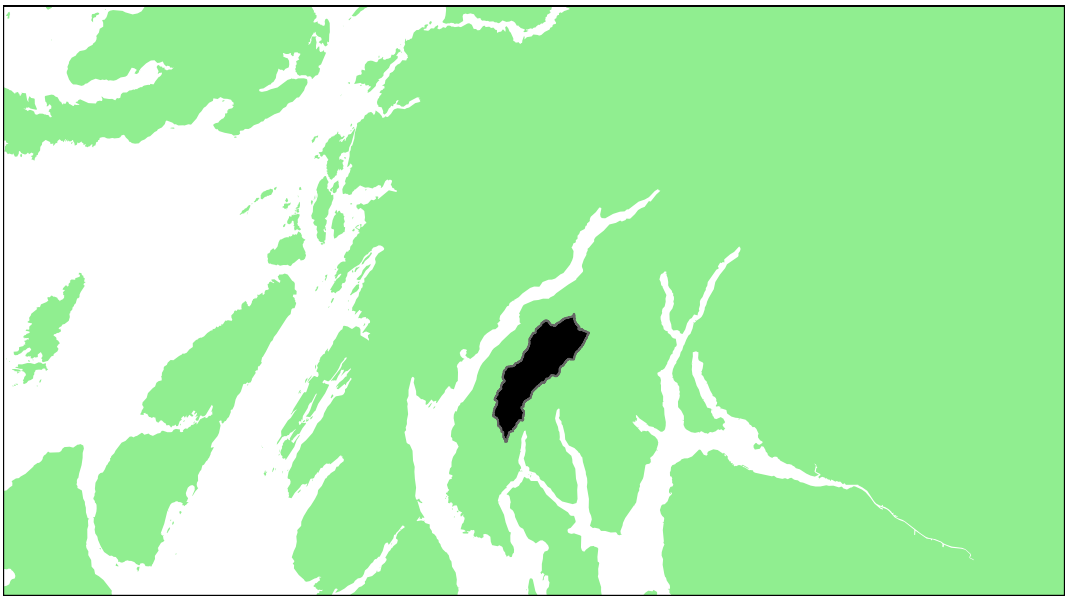

## 5. Percentage chance that the egg requirement has been reached

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




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 Ruel: Grade 3



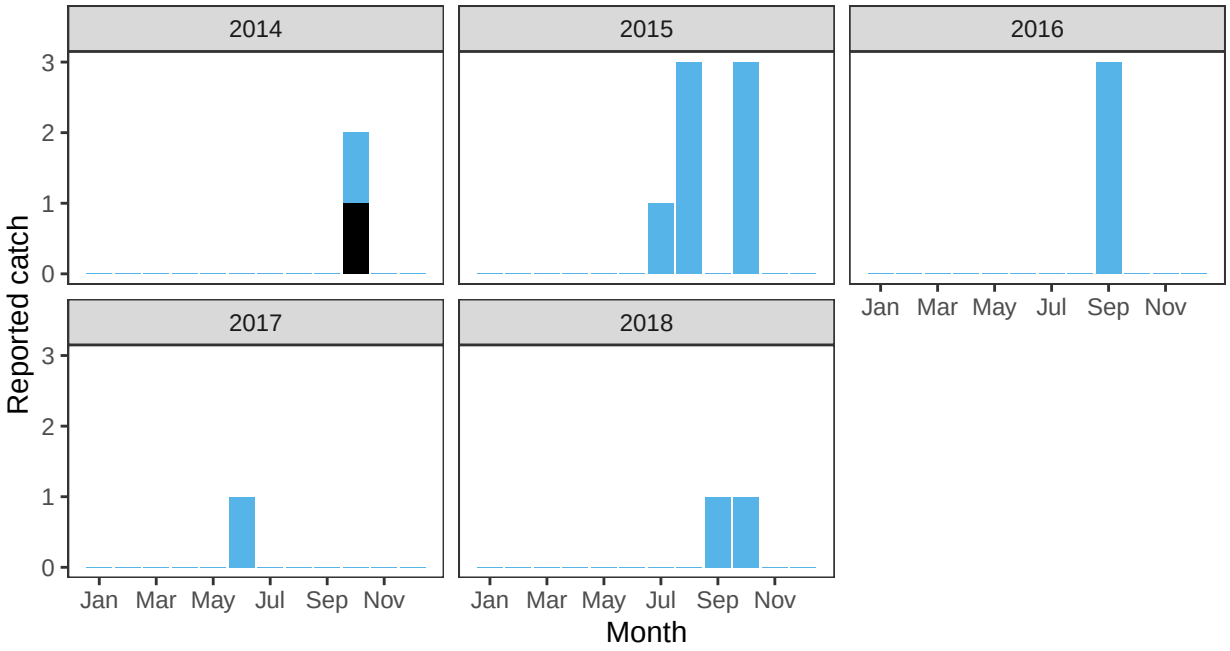
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.36 | 220,200 | 299,536 | 0.77 | 18.57 | 1.94 | 2.92 | 0.82 | 5 | 3 |

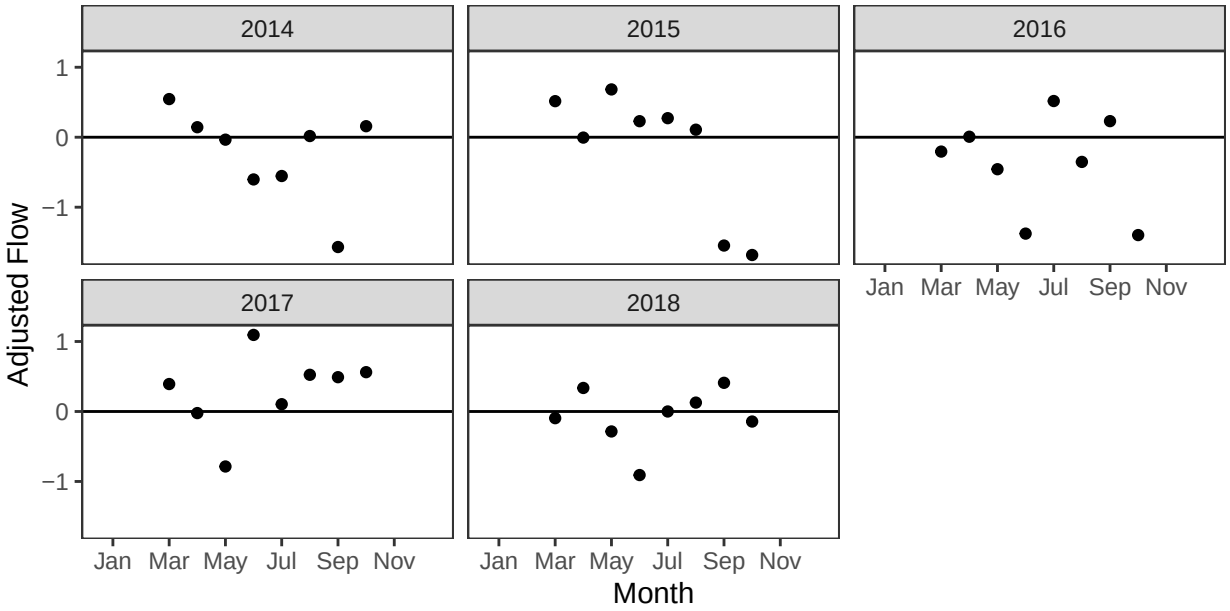
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

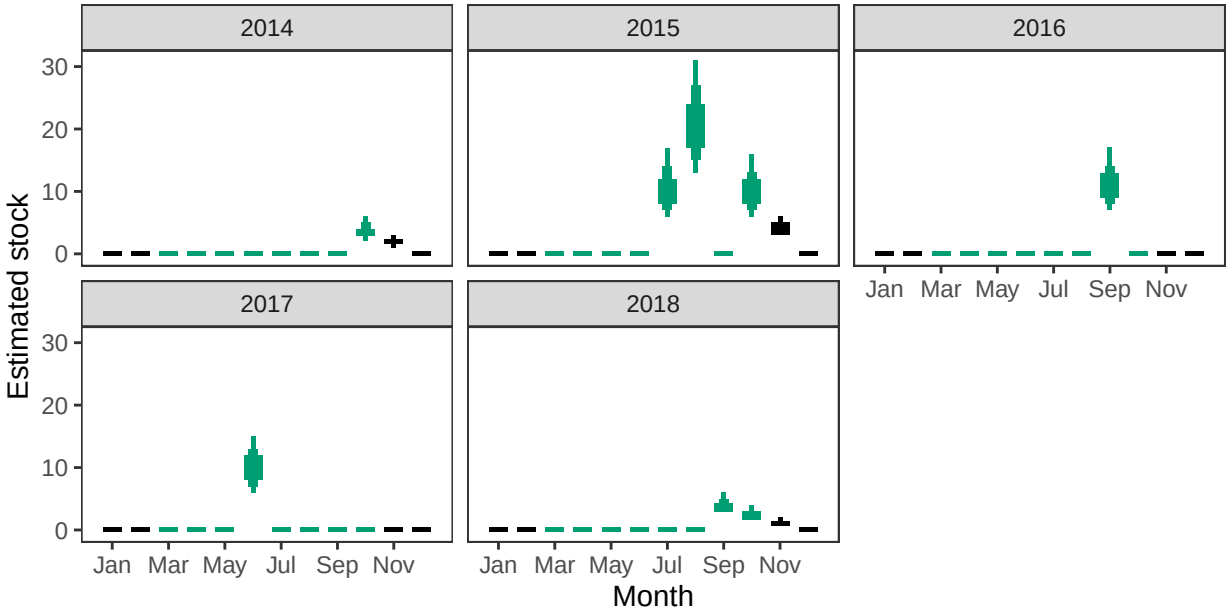
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

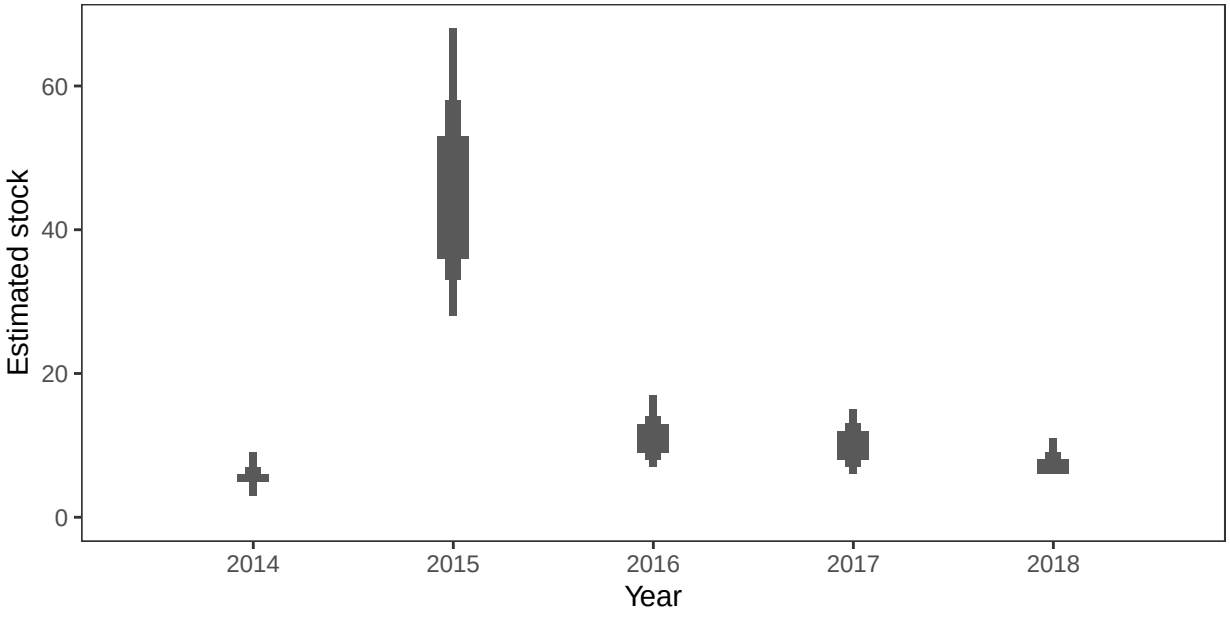


***Monthly stock estimates (out of season in black)***



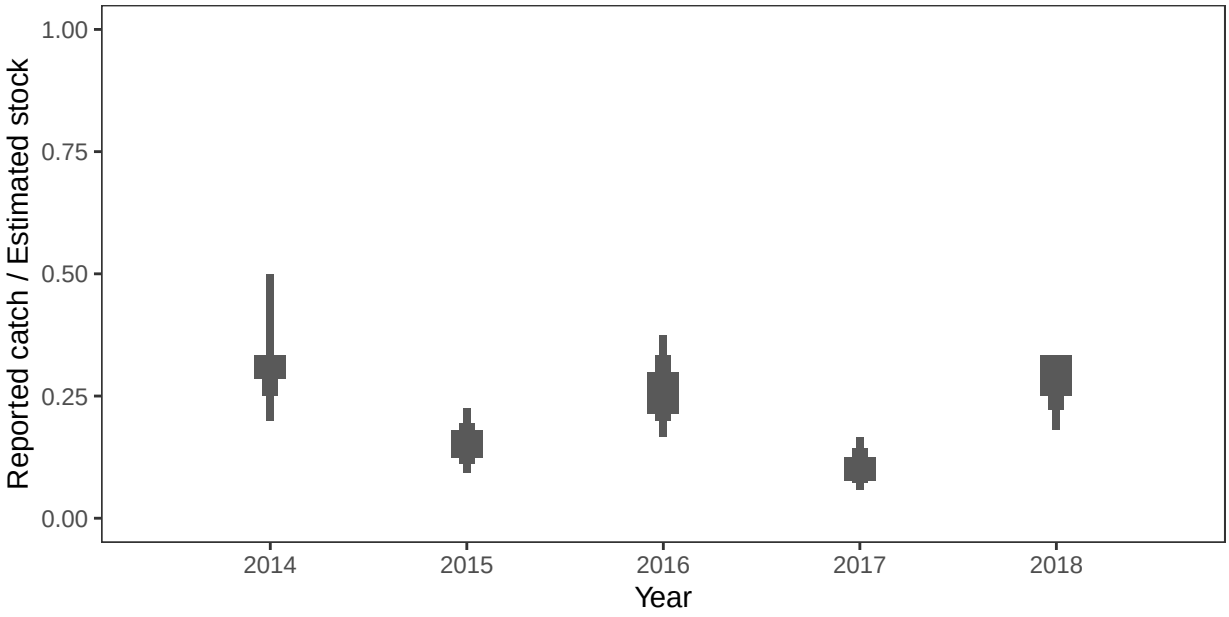

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

***Annual estimated stock***




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

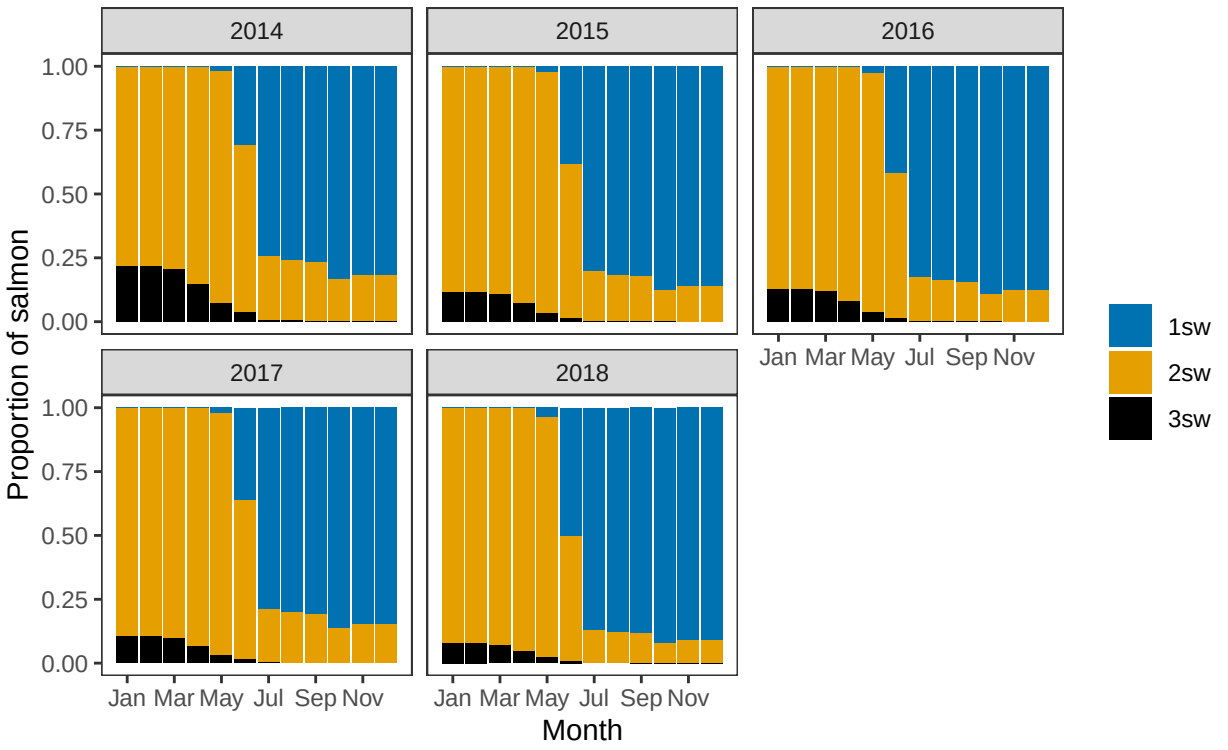
***Annual catch as a proportion of stock***



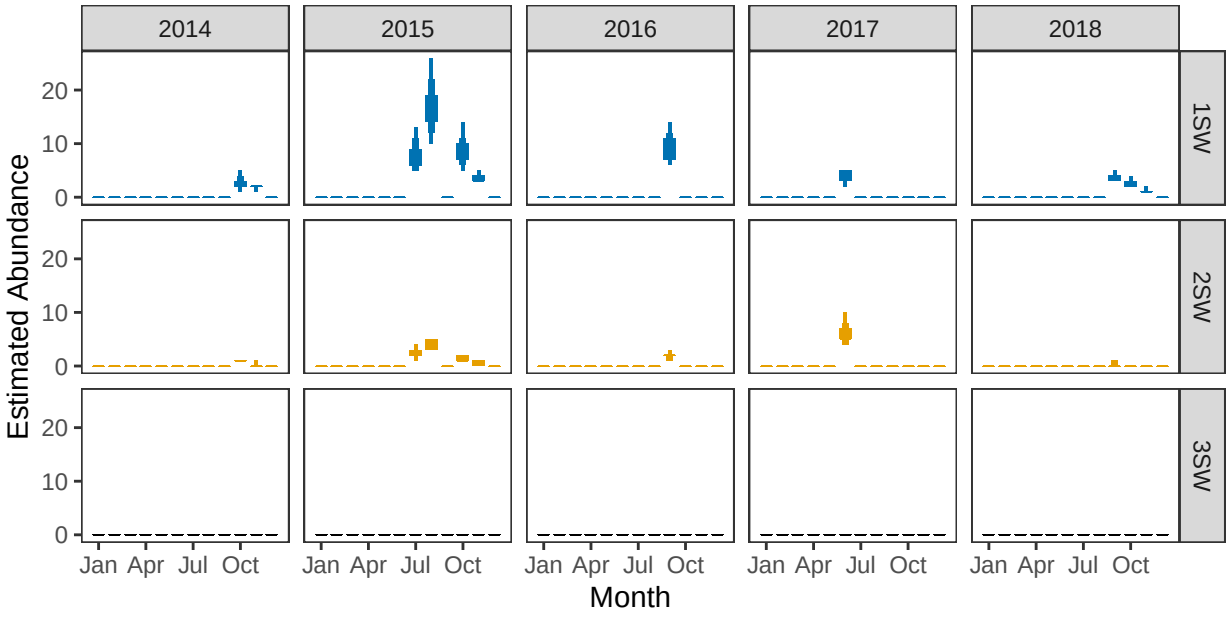

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



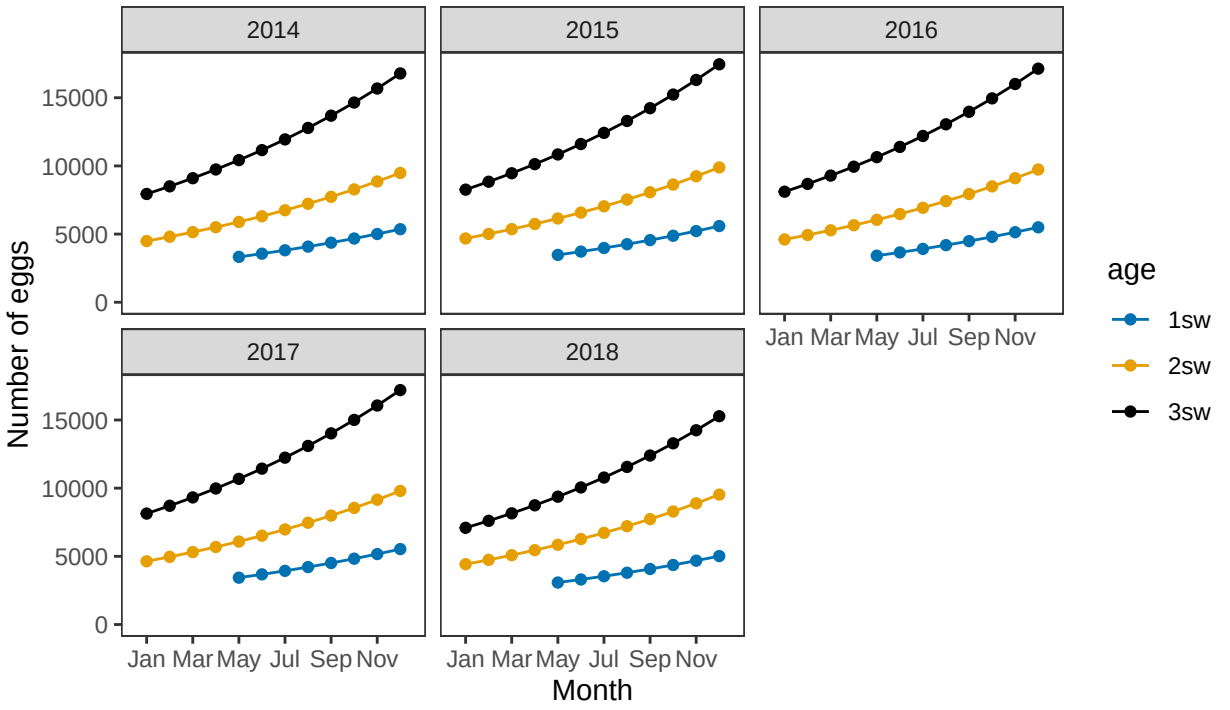
*Monthly number of spawning females*



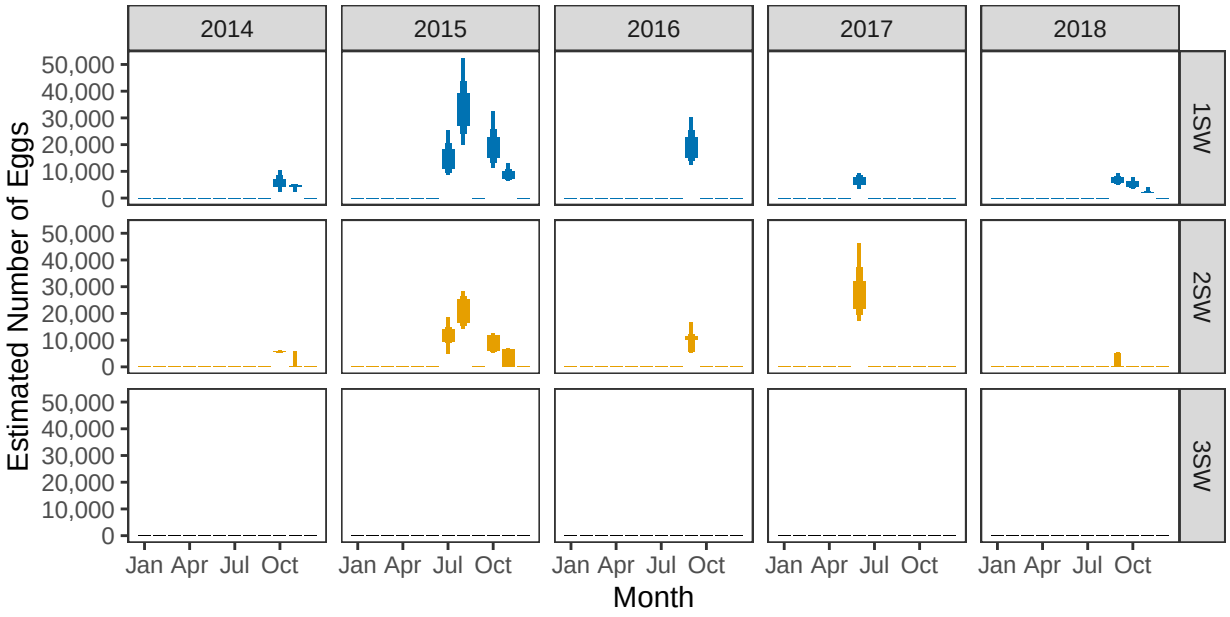

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

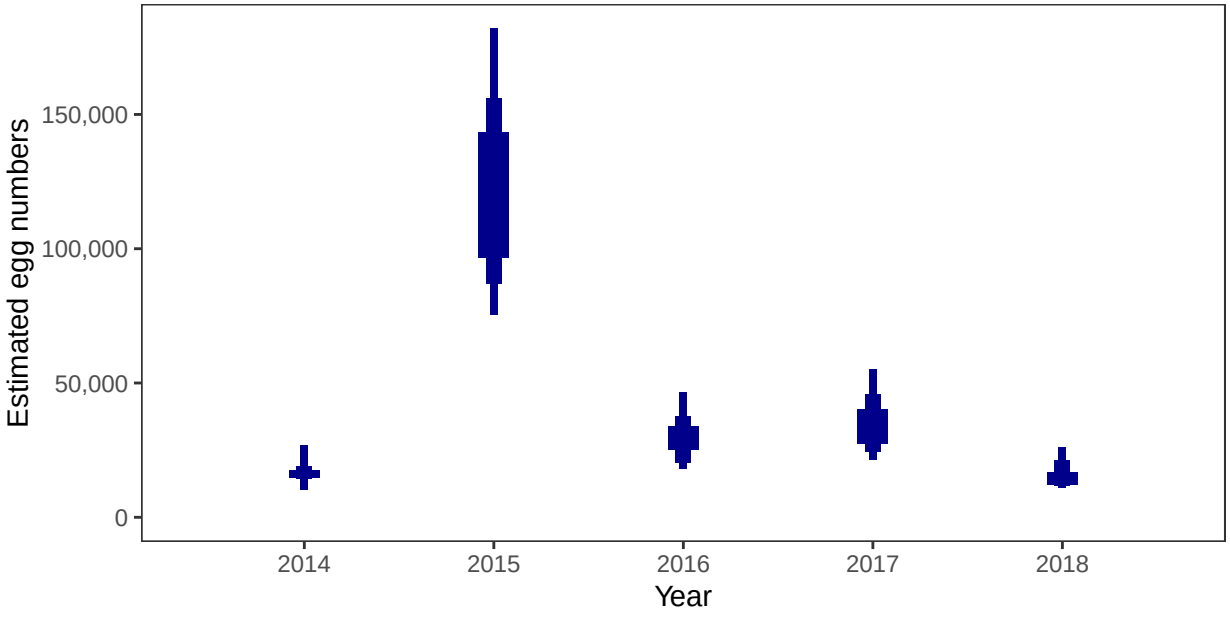


***Monthly number of eggs***




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

***Total annual egg numbers***



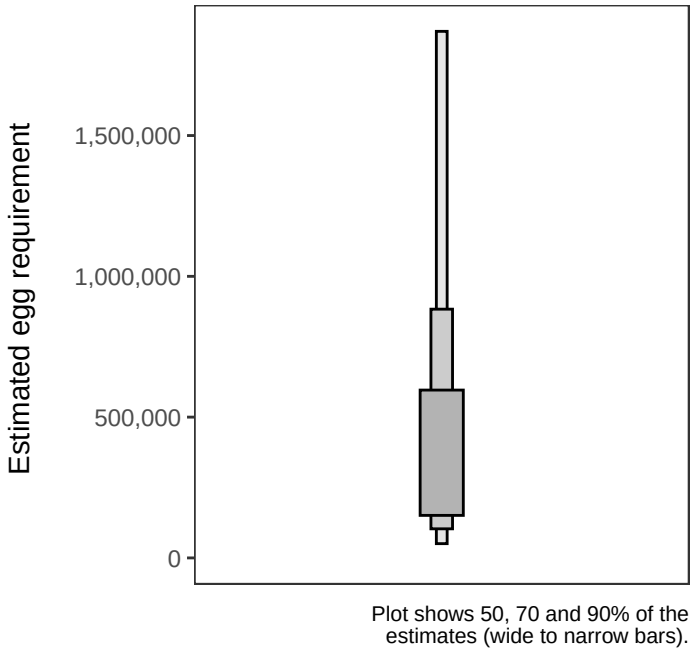

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

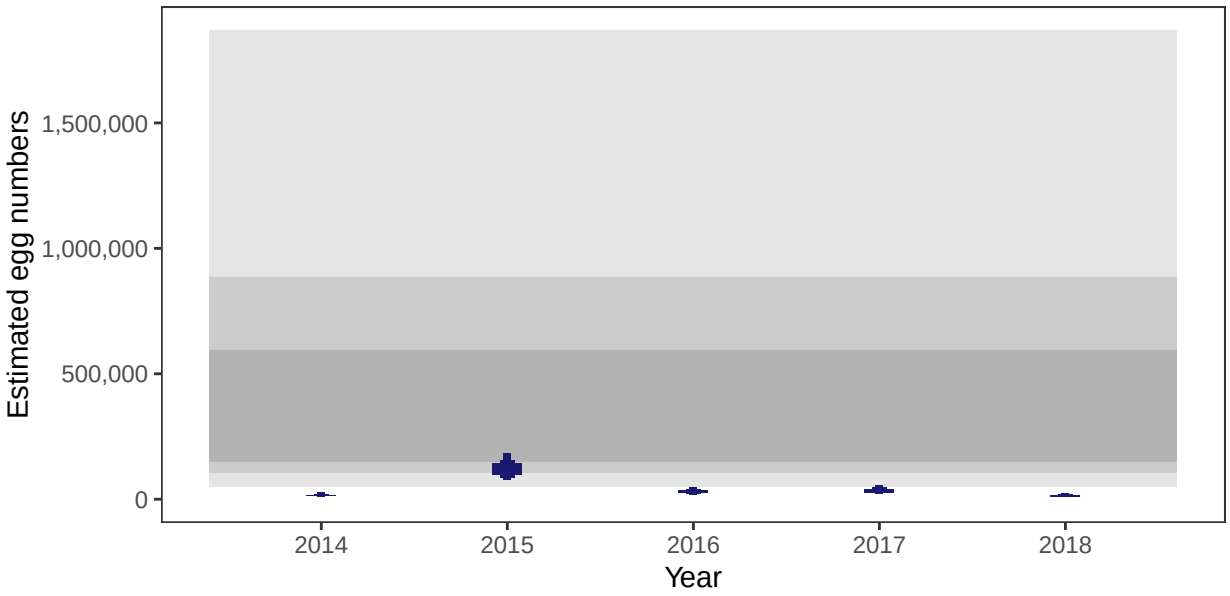
There is an estimated 195,898 square meters of known salmon habitat in the River Ruel and a further 54,346 square meters where salmon may be present.

***Egg requirement***



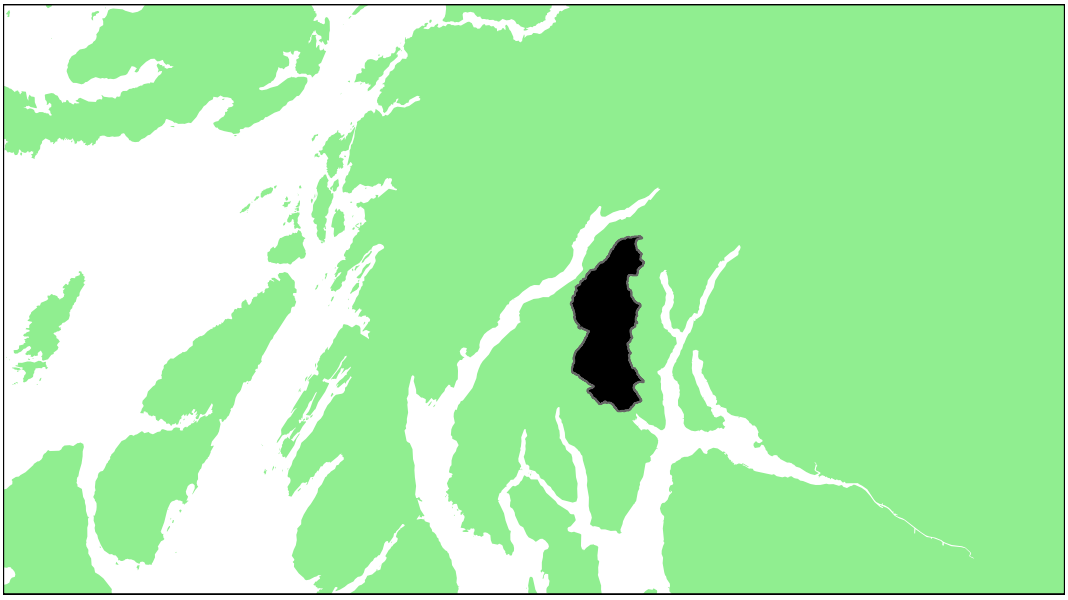

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 0.77 |
| 2015 | 18.57 |
| 2016 | 1.94 |
| 2017 | 2.92 |
| 2018 | 0.82 |




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 Eachaig: Grade 3



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

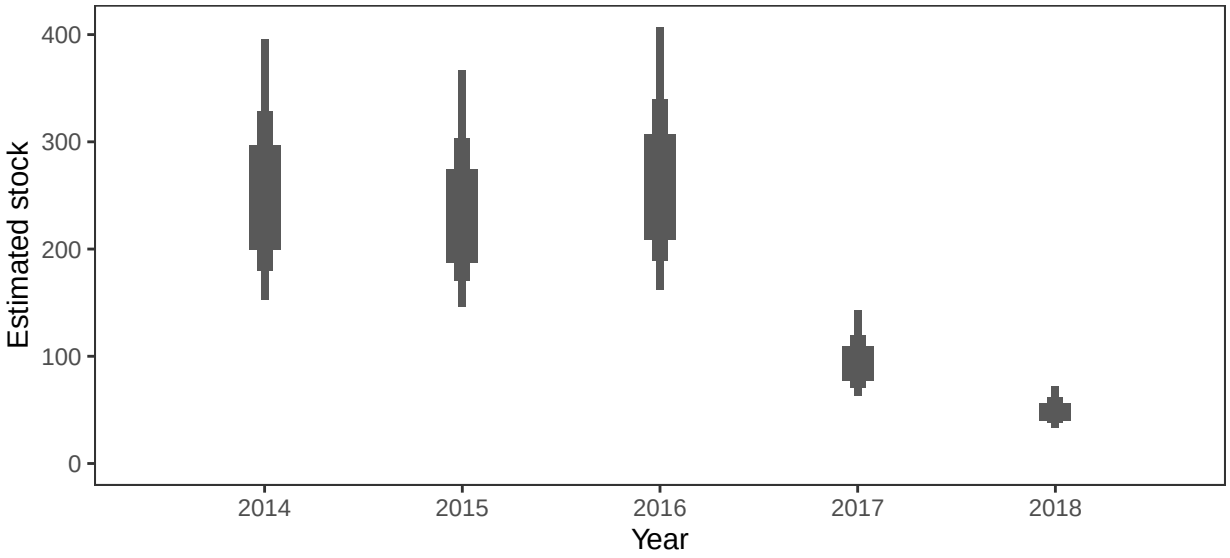
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.7 | 482,400 | 821,346 | 40.91 | 38.38 | 40.54 | 12.68 | 3.12 | 27.13 | 3 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

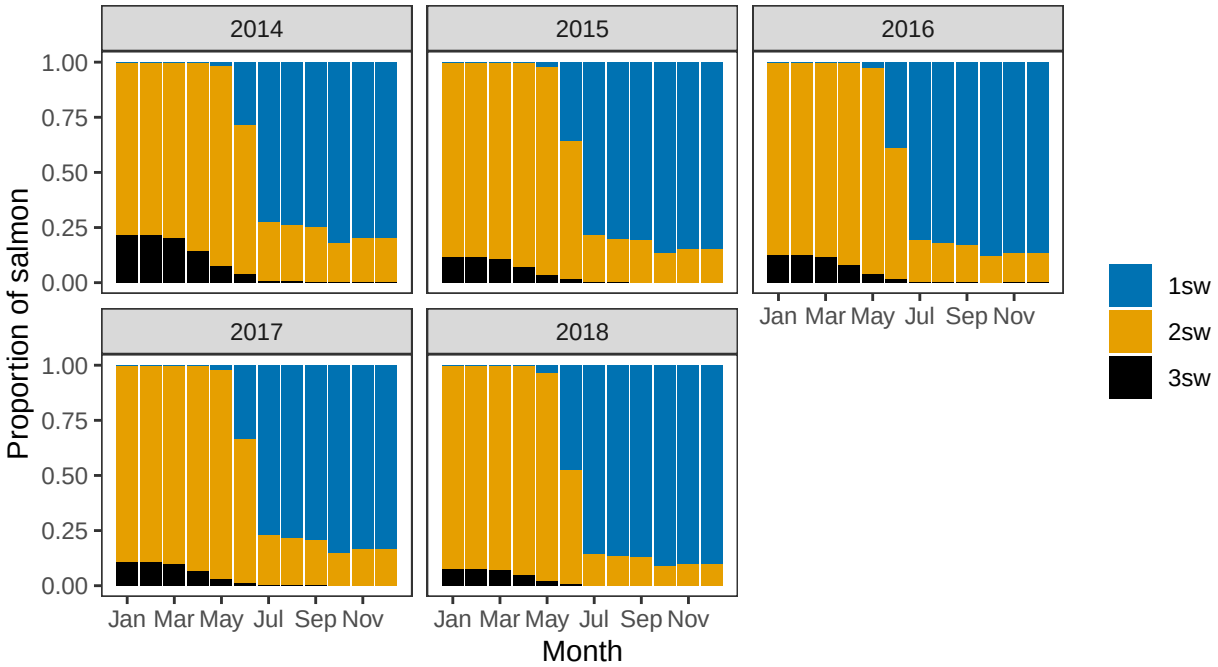
***Annual estimated stock***




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

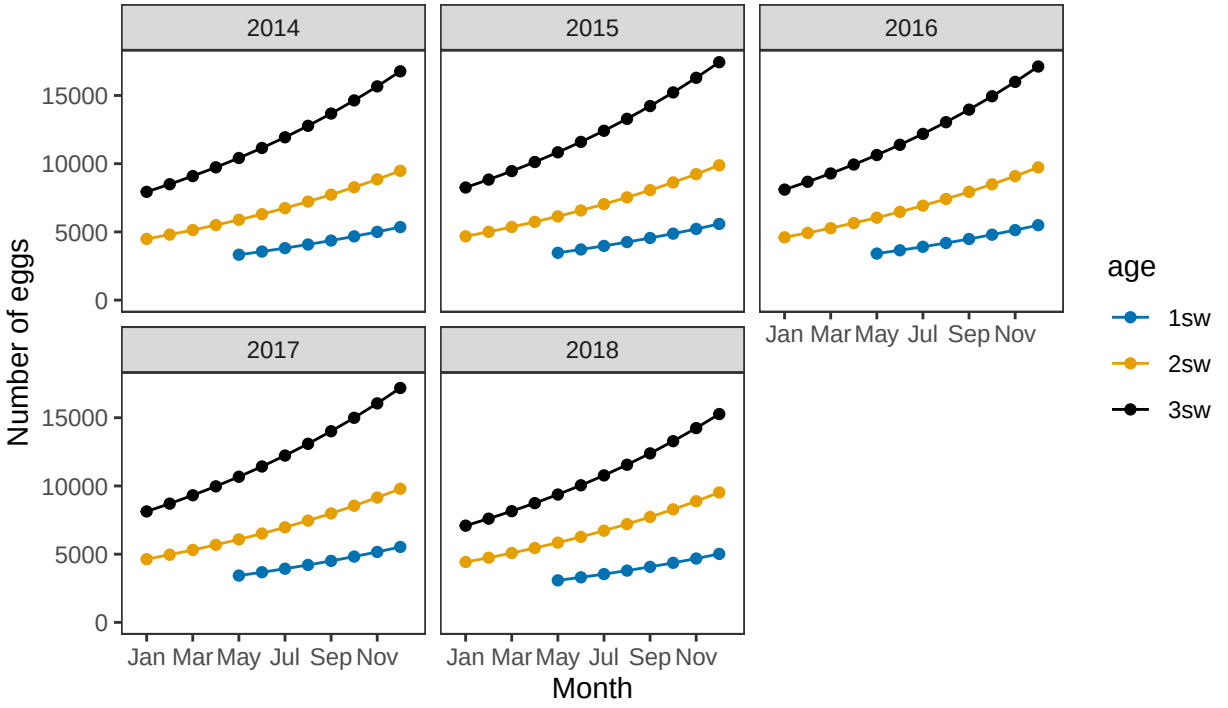
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

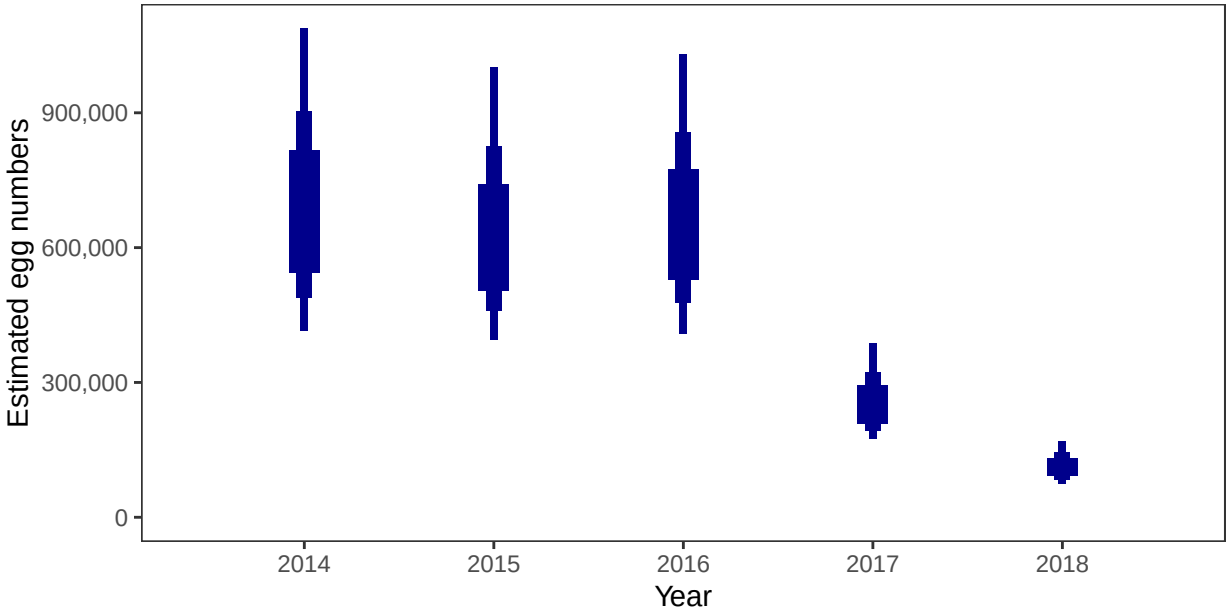


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



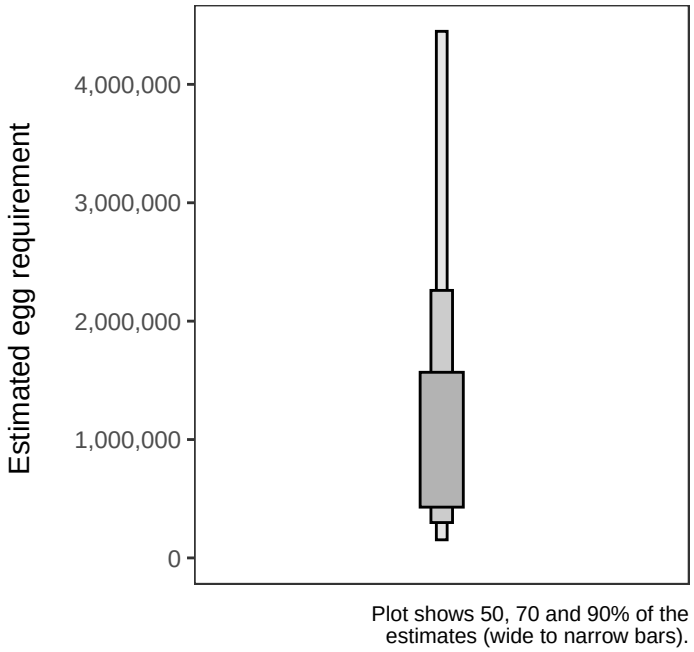

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

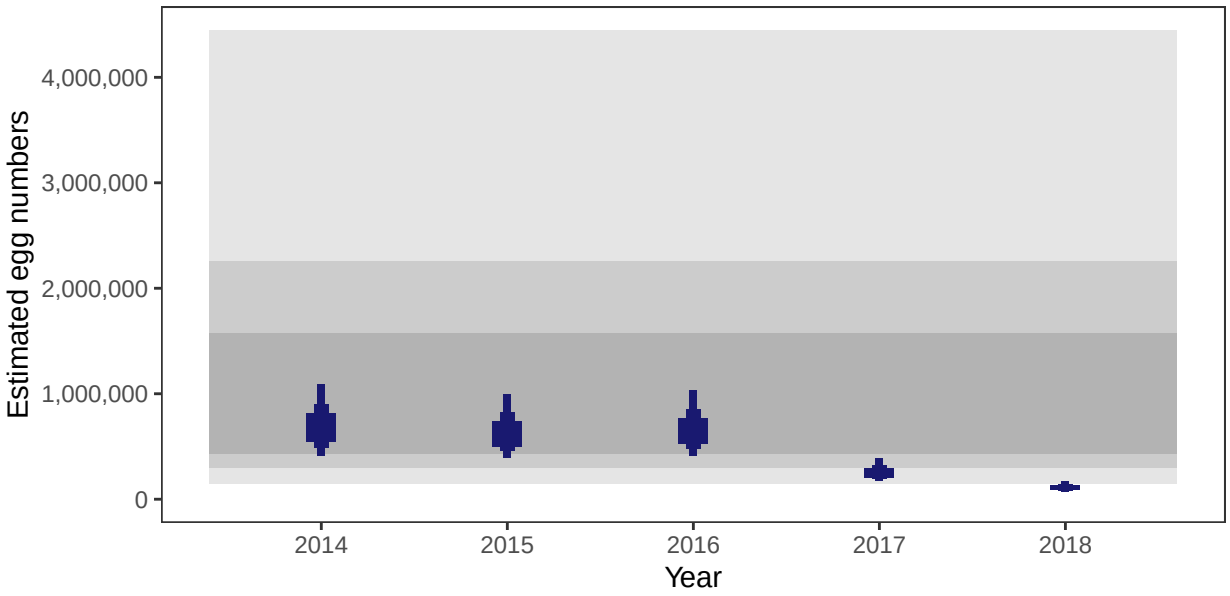
There is an estimated 404,557 square meters of known salmon habitat in the River Eachaig and a further 143,650 square meters where salmon may be present.

***Egg requirement***



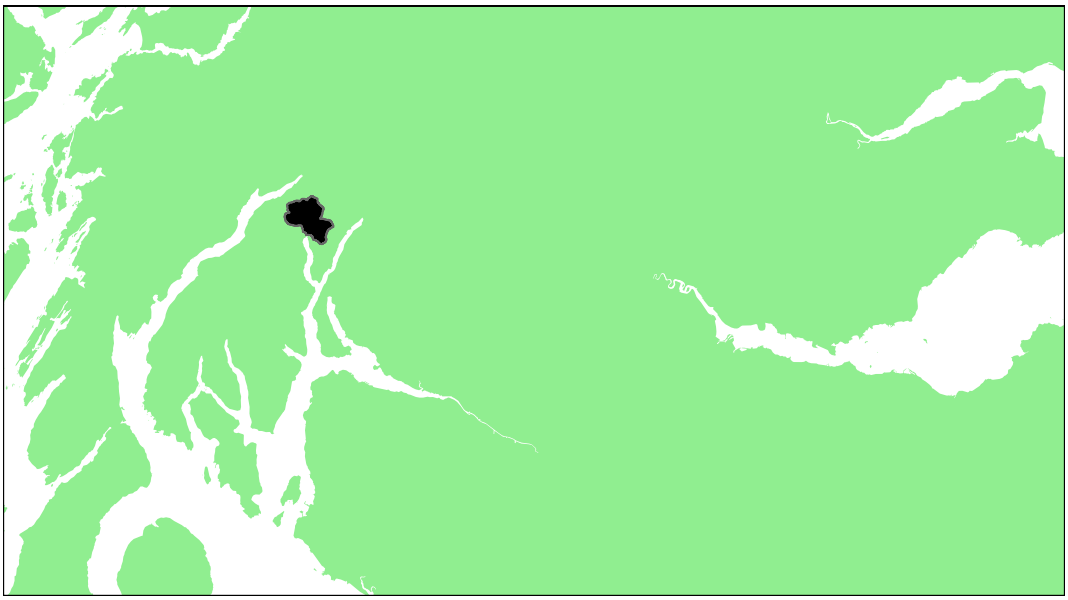

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 40.91 |
| 2015 | 38.38 |
| 2016 | 40.54 |
| 2017 | 12.68 |
| 2018 | 3.12 |




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 Goil: Grade 3



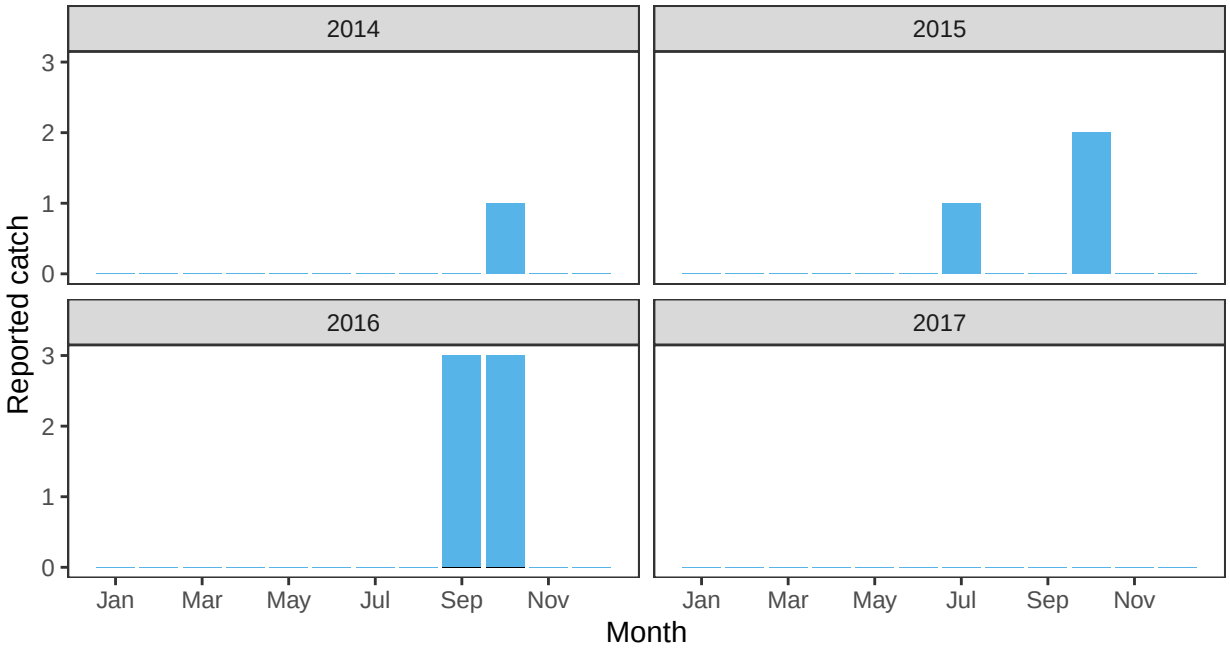
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.47 | 57,100 | 83,652 | 3.06 | 24.46 | 35.58 | 0 | 0 | 12.62 | 3 |

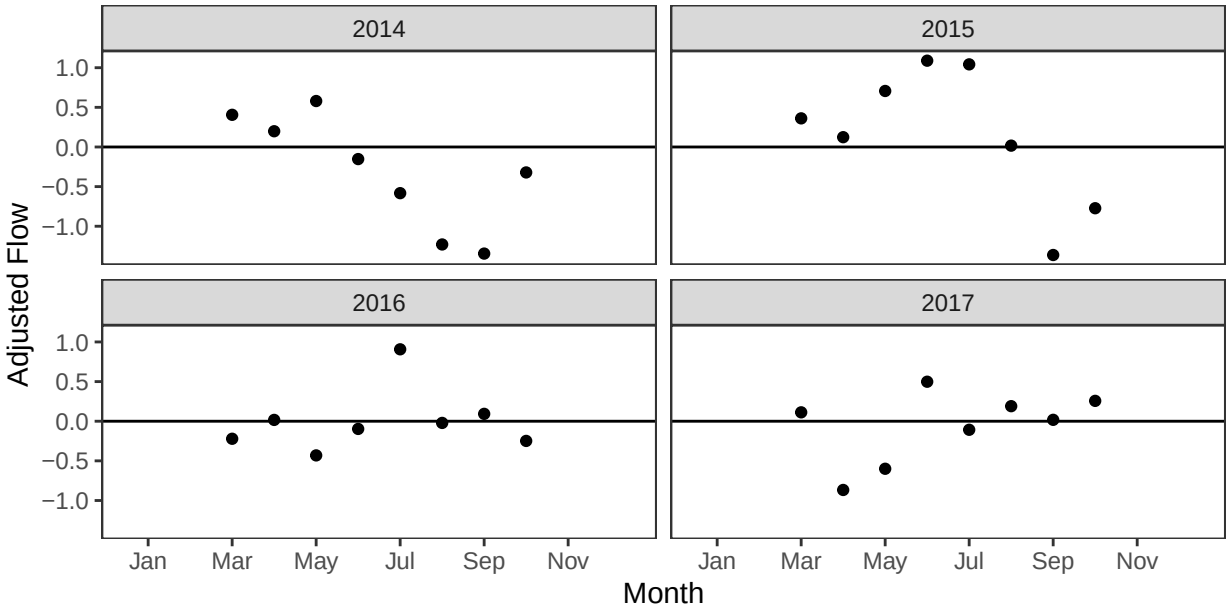
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

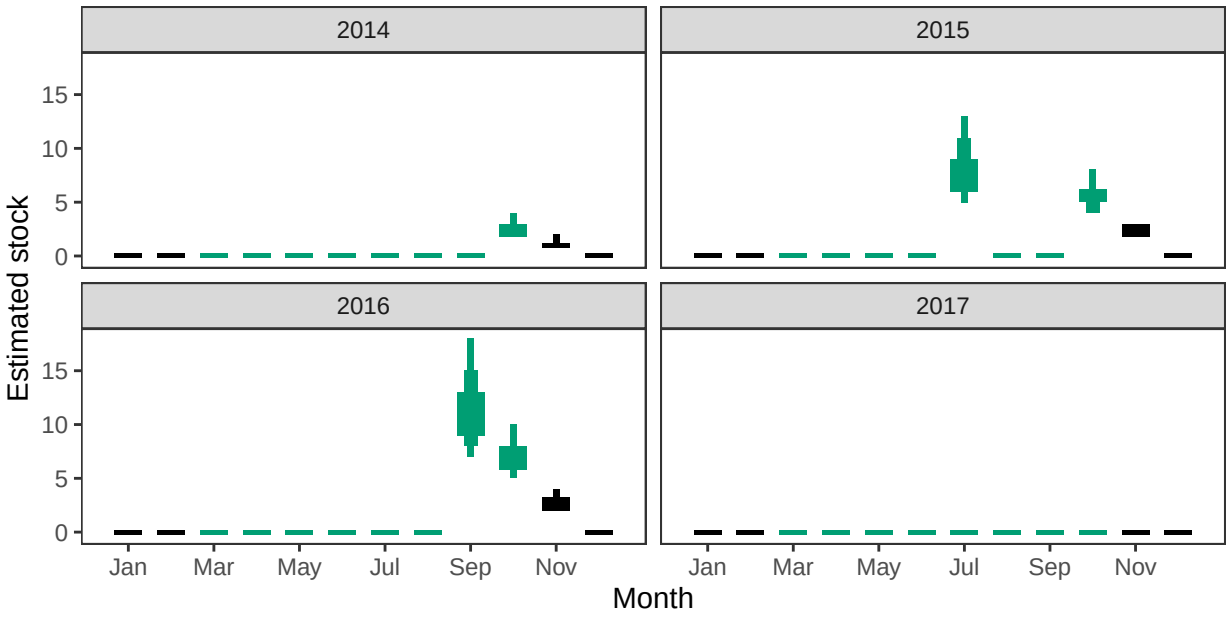
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

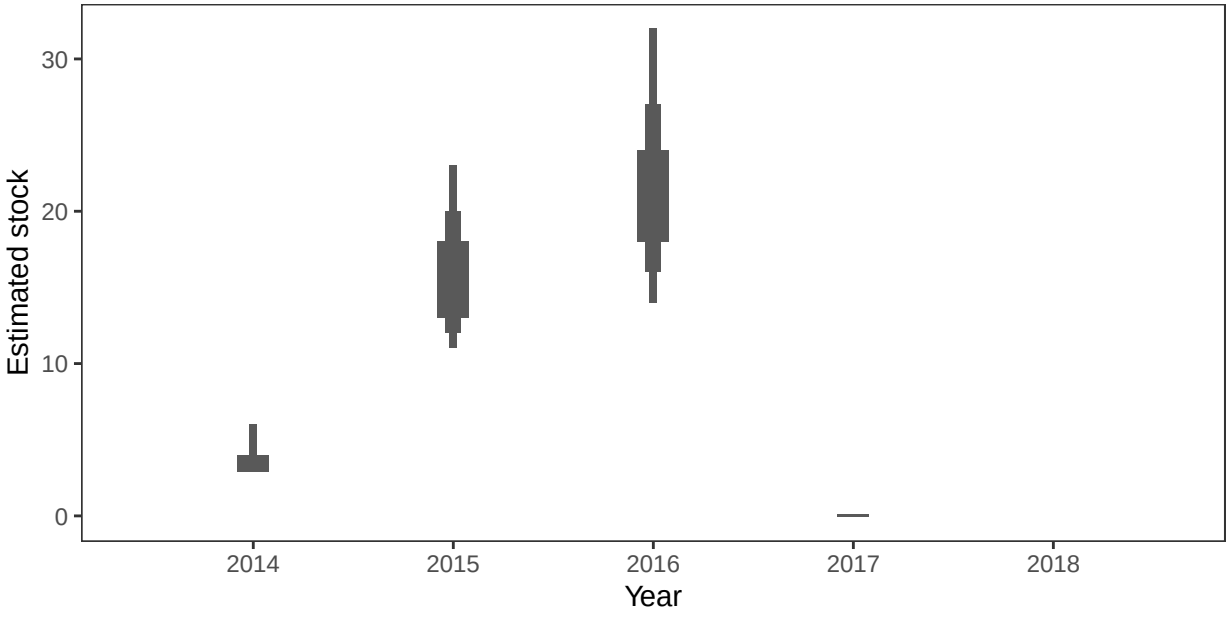


*Monthly stock estimates (out of season in black)*



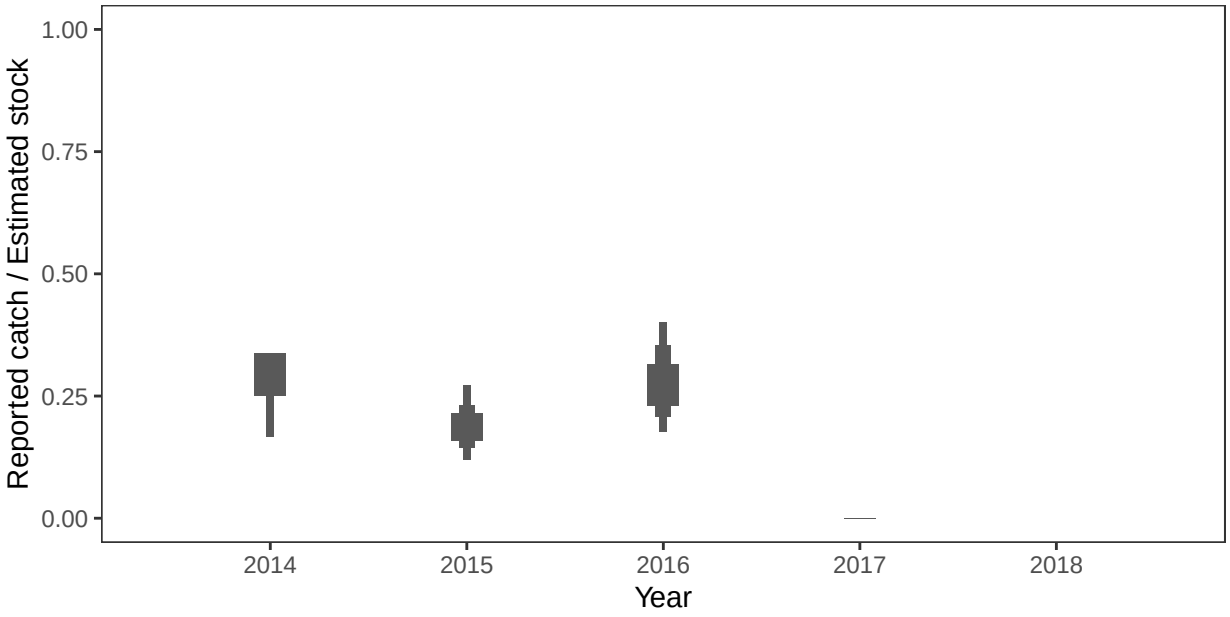

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

*Annual estimated stock*




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

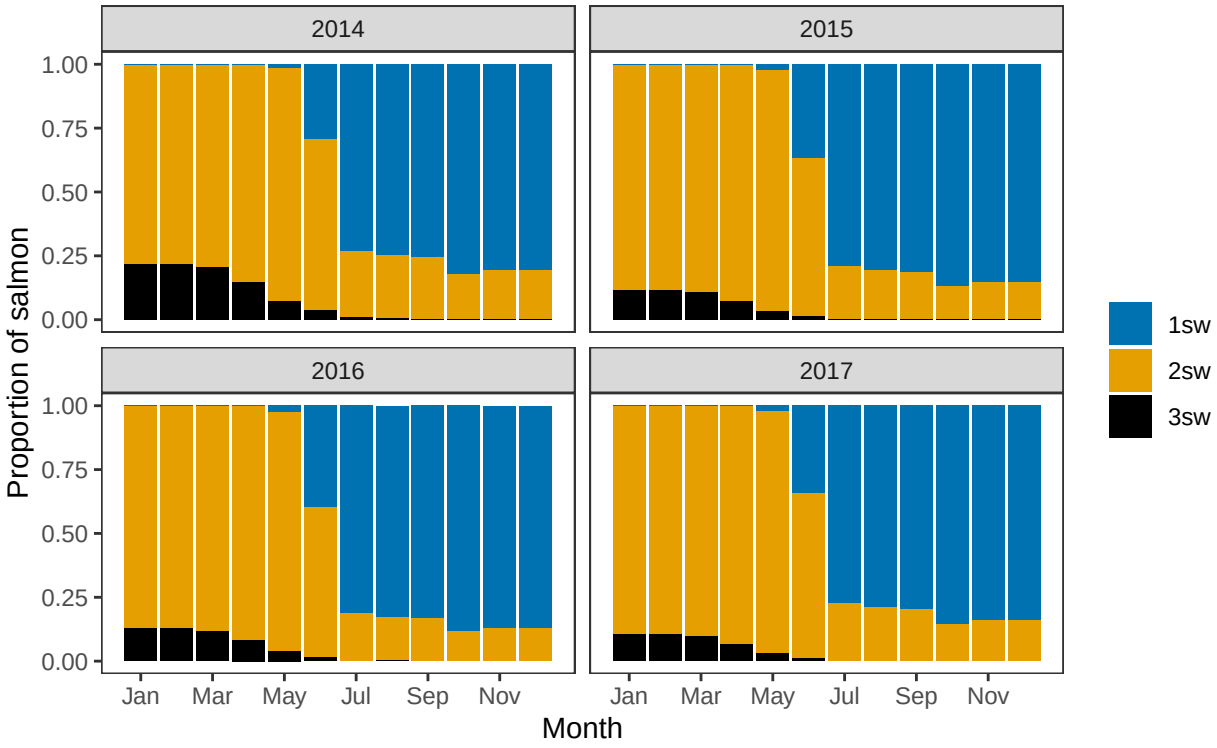
***Annual catch as a proportion of stock***



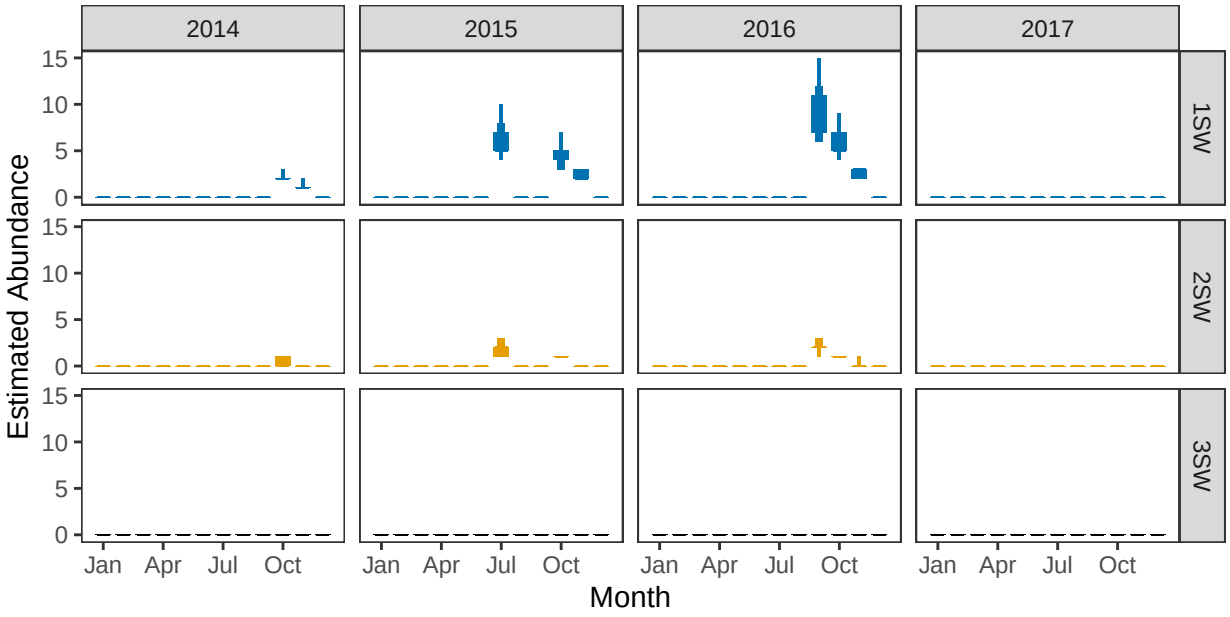

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



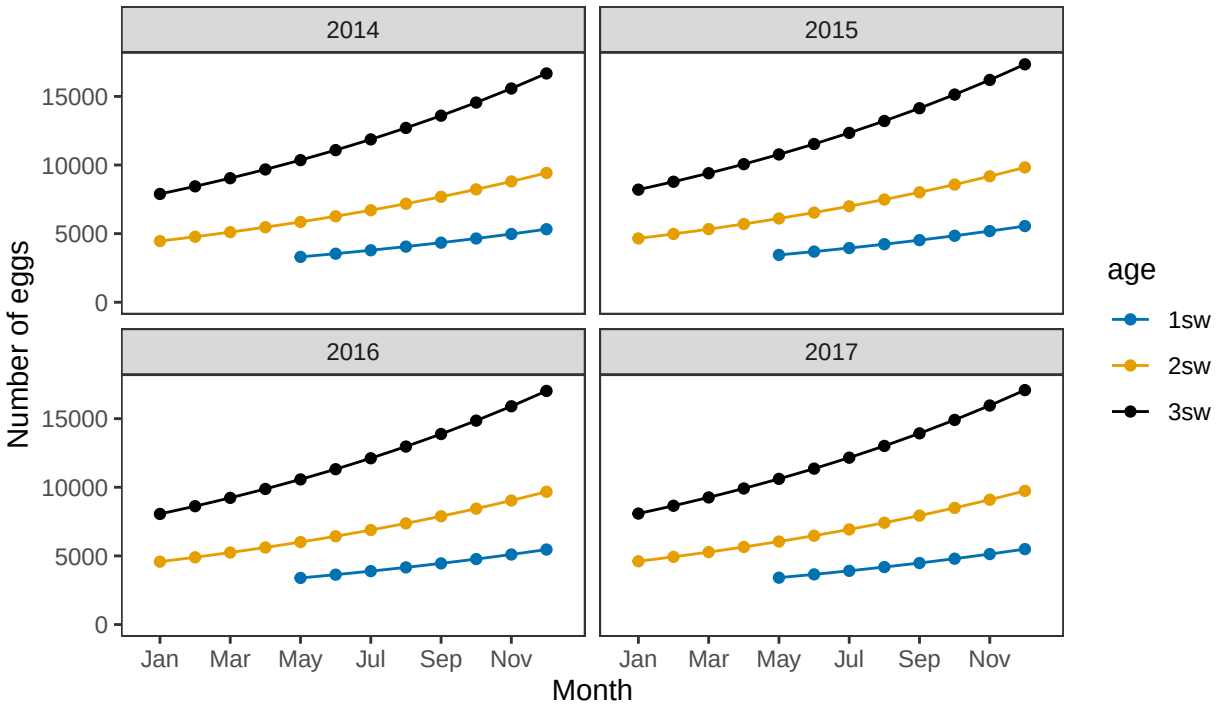
*Monthly number of spawning females*



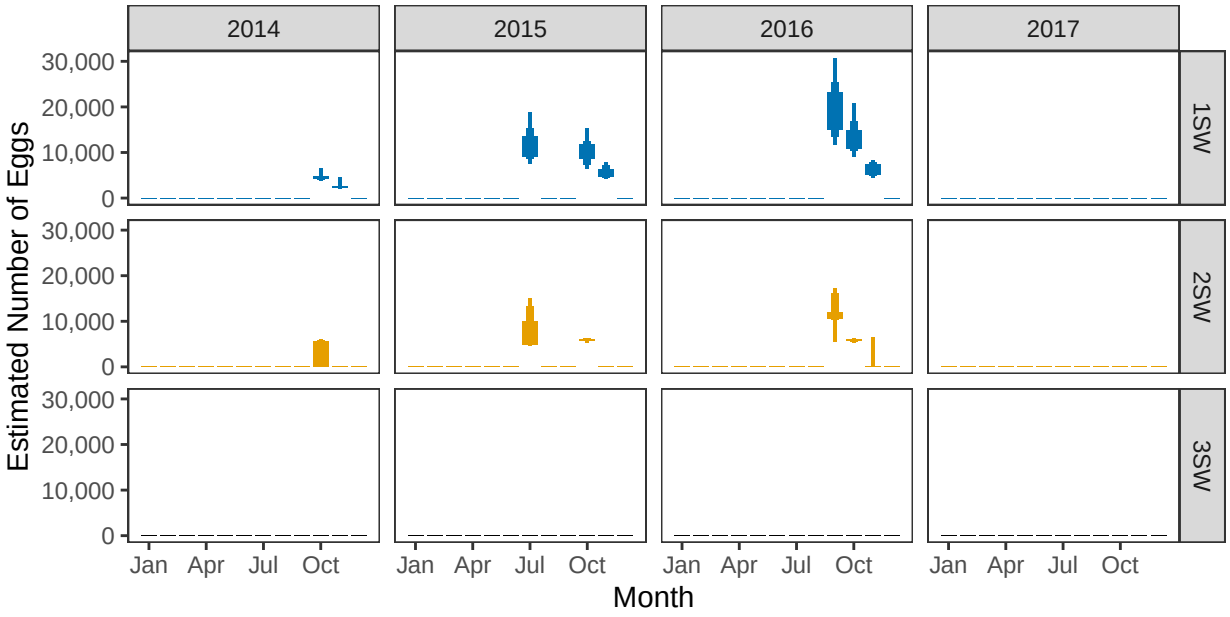

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

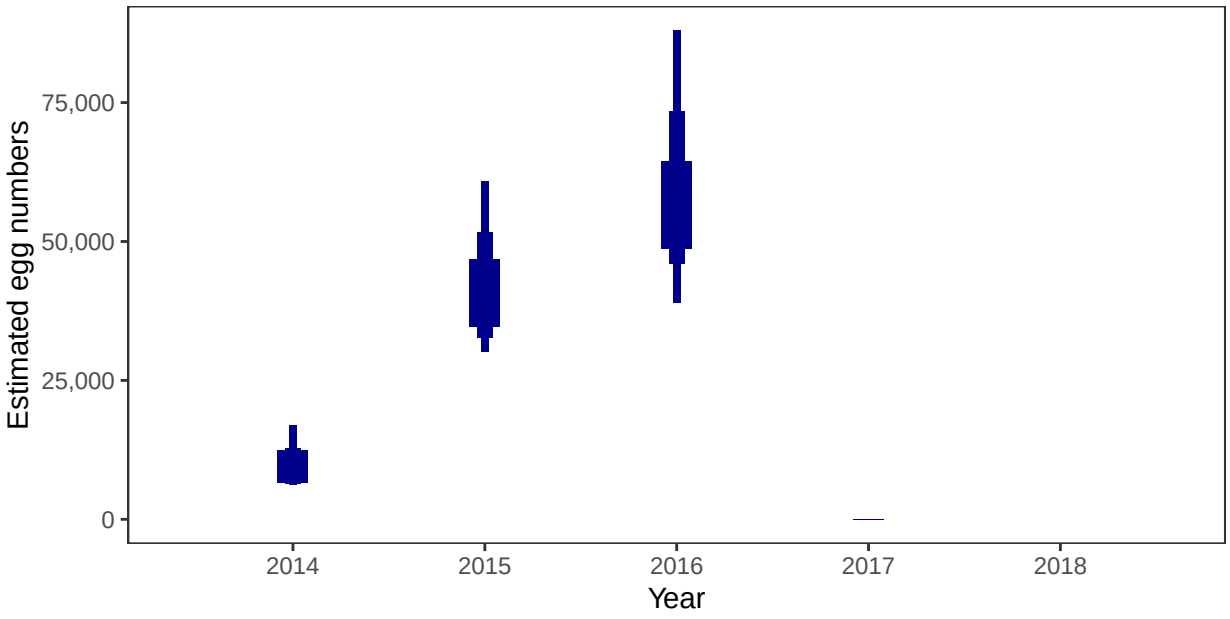


***Monthly number of eggs***




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

***Total annual egg numbers***



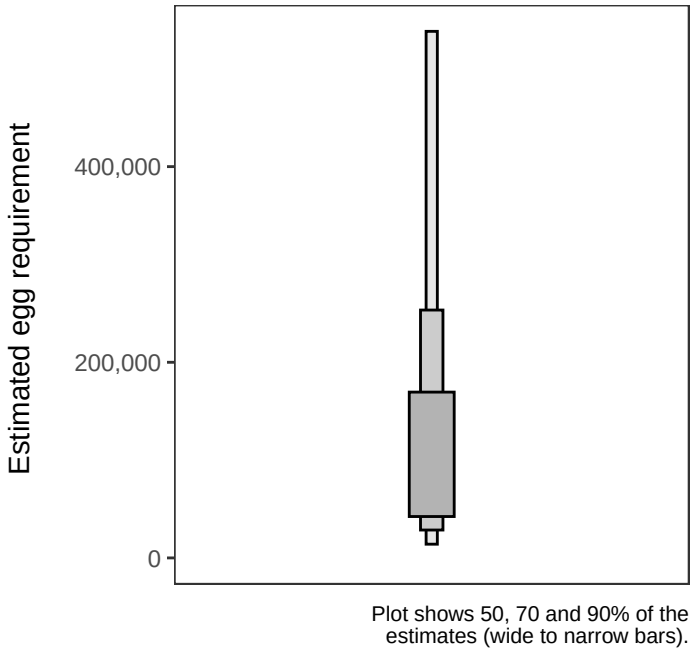

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

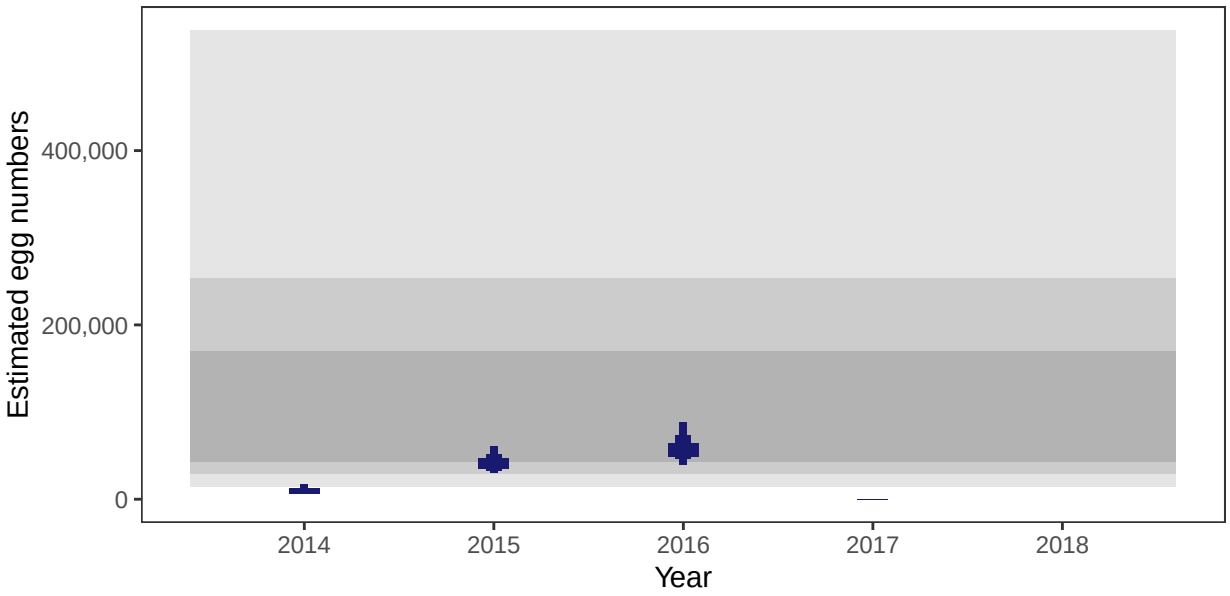
There is an estimated 63,232 square meters of known salmon habitat in the River Goil and a further 1,673 square meters where salmon may be present.

### *Egg requirement*



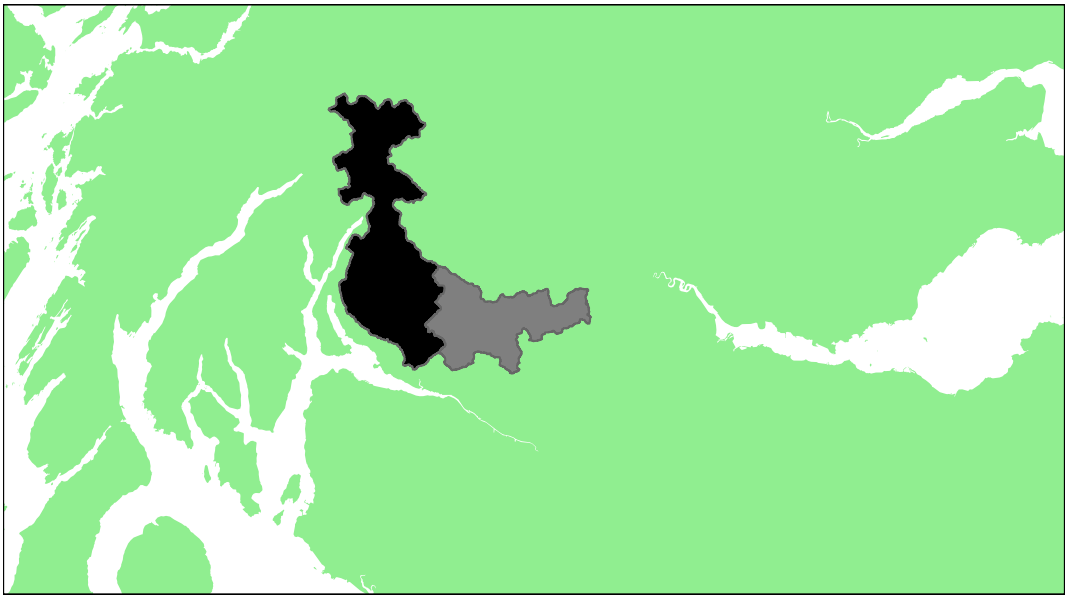

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 3.06 |
| 2015 | 24.46 |
| 2016 | 35.58 |
| 2017 | - |
| 2018 | - |




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 Leven (Dunbartonshire) [non-SAC]: Grade 2



NOTE: assessment carried out using information from whole catchment but grading applies only to non-SAC area (shaded black). SAC (shaded grey) graded separately.

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

***Summary Table***

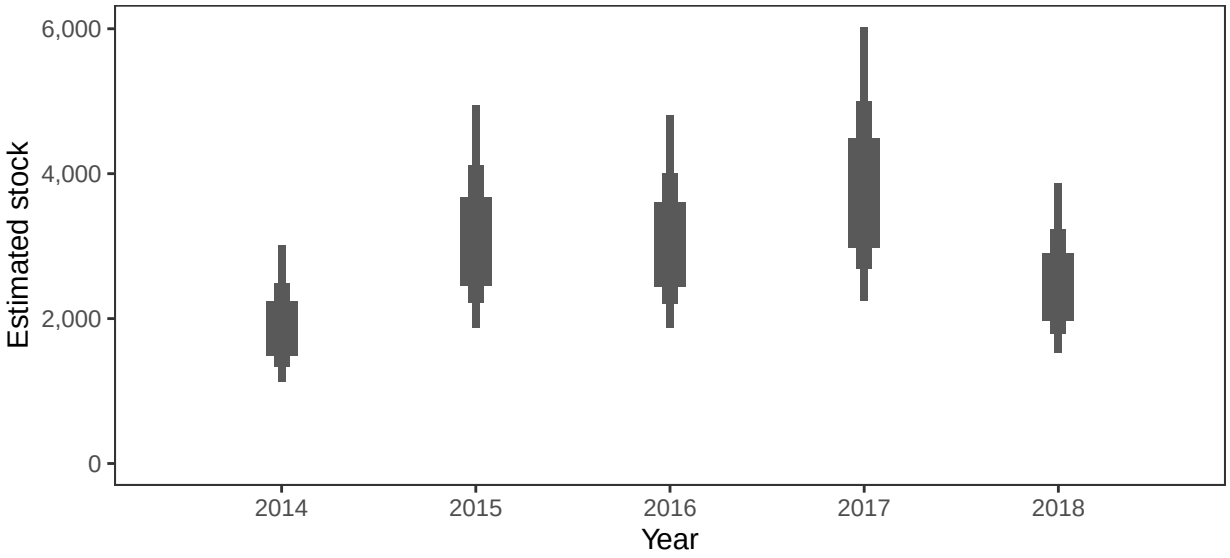
| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.32 | 1,874,500 | 2,476,747 | 80.21 | 88.88 | 88.89 | 92.46 | 82.21 | 86.53 | 2 |

[a] Figures presented are median values

Grade 2 due to the presence of Endrick Water SAC

## 1. Converting Reported Catches to Numbers of Returning Salmon

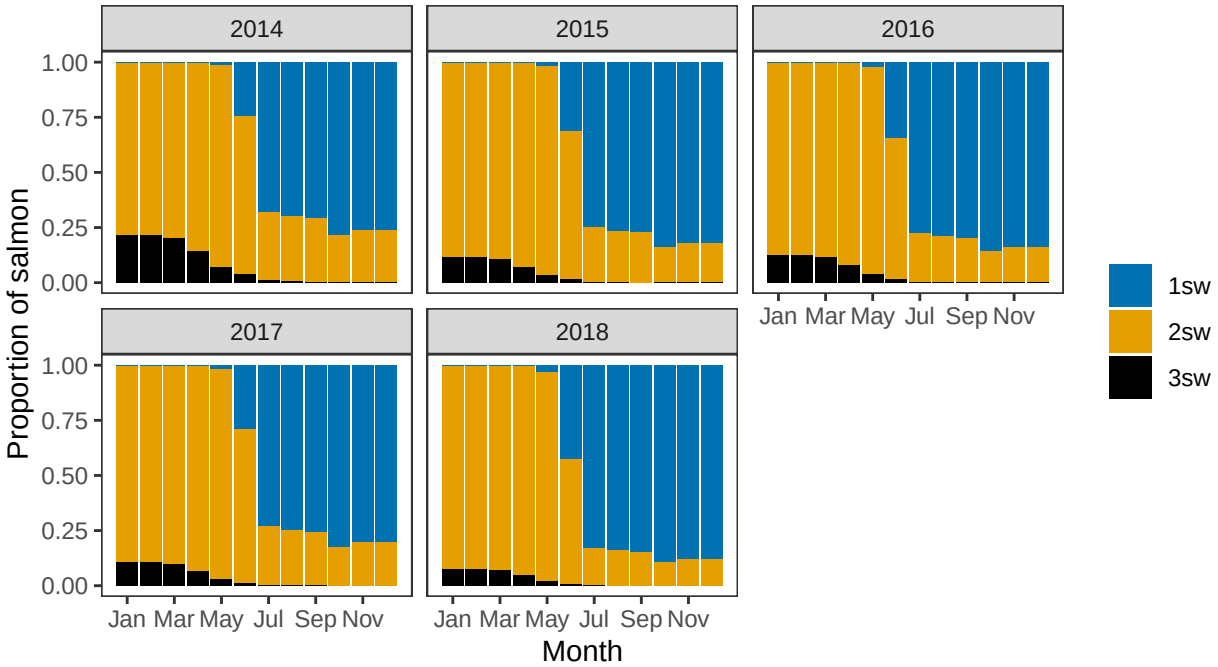
***Annual estimated stock***




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

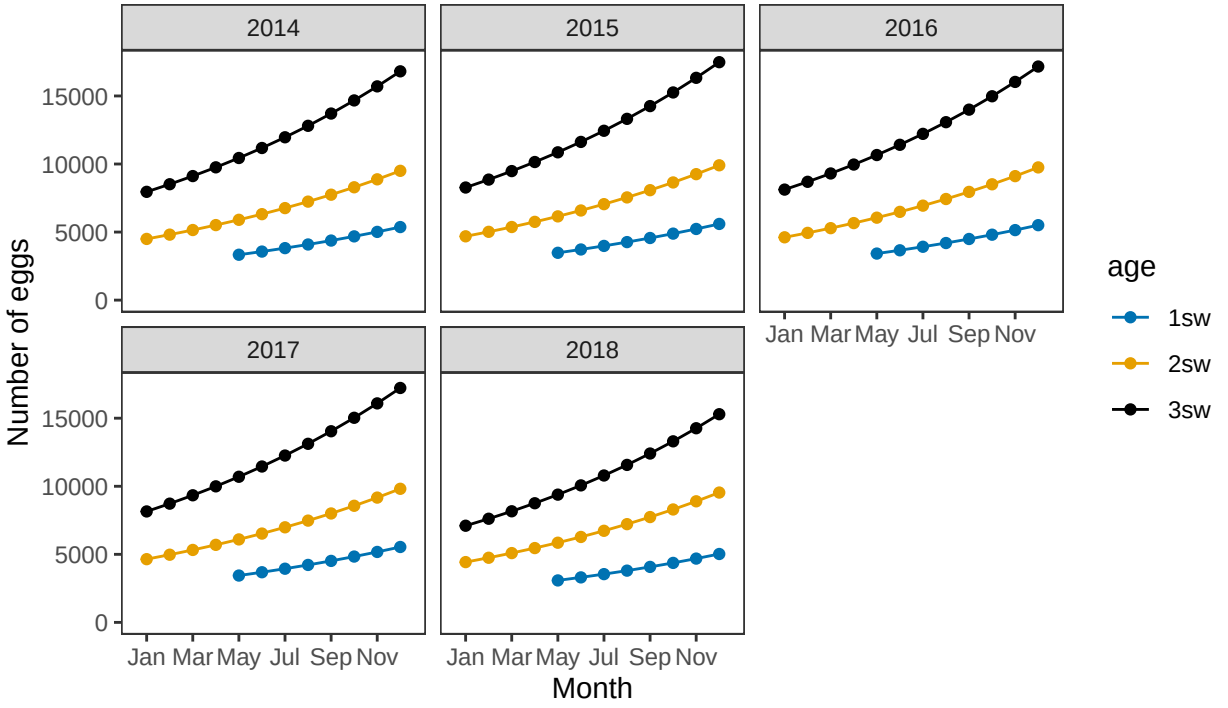
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

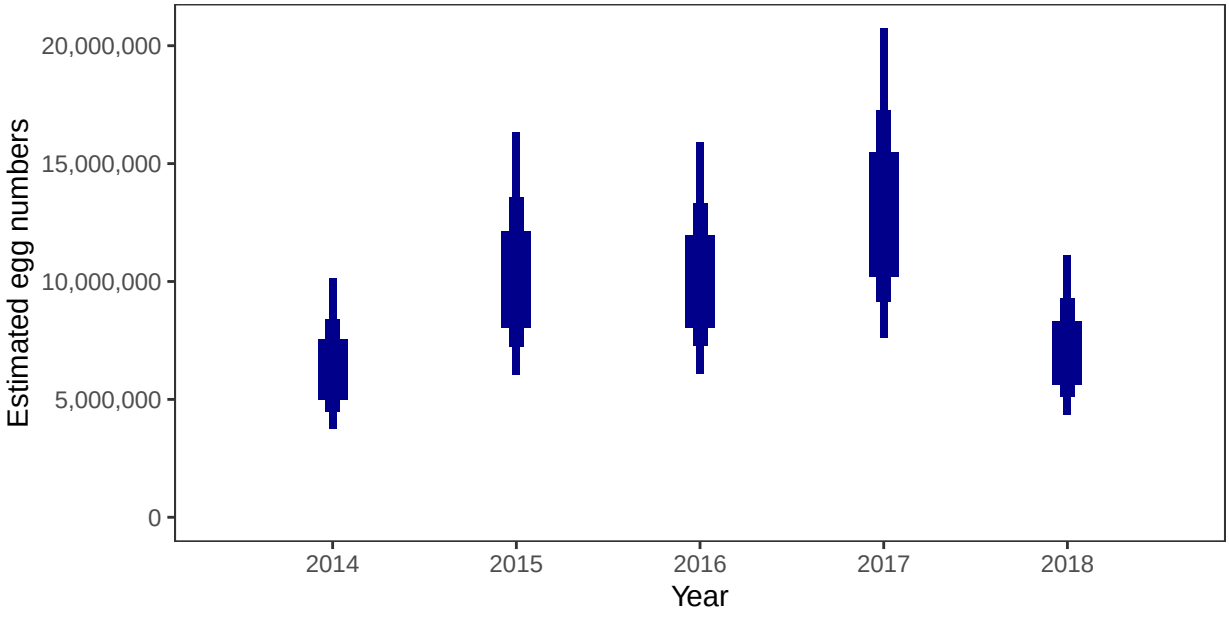


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



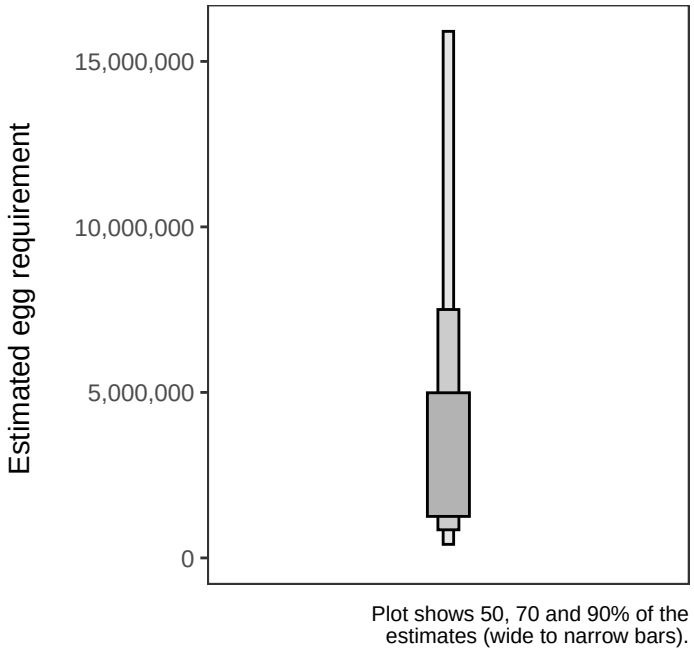

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

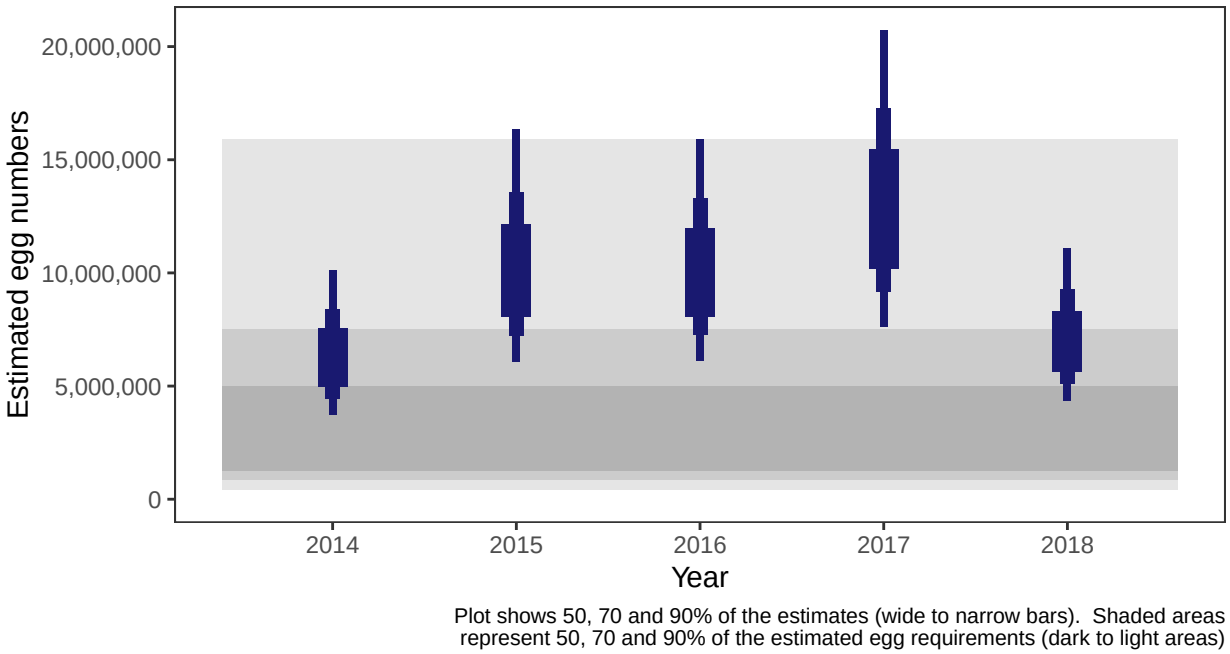
There is an estimated 1,767,149 square meters of known salmon habitat in the River Leven (Dunbartonshire) and a further 362,982 square meters where salmon may be present.

***Egg requirement***



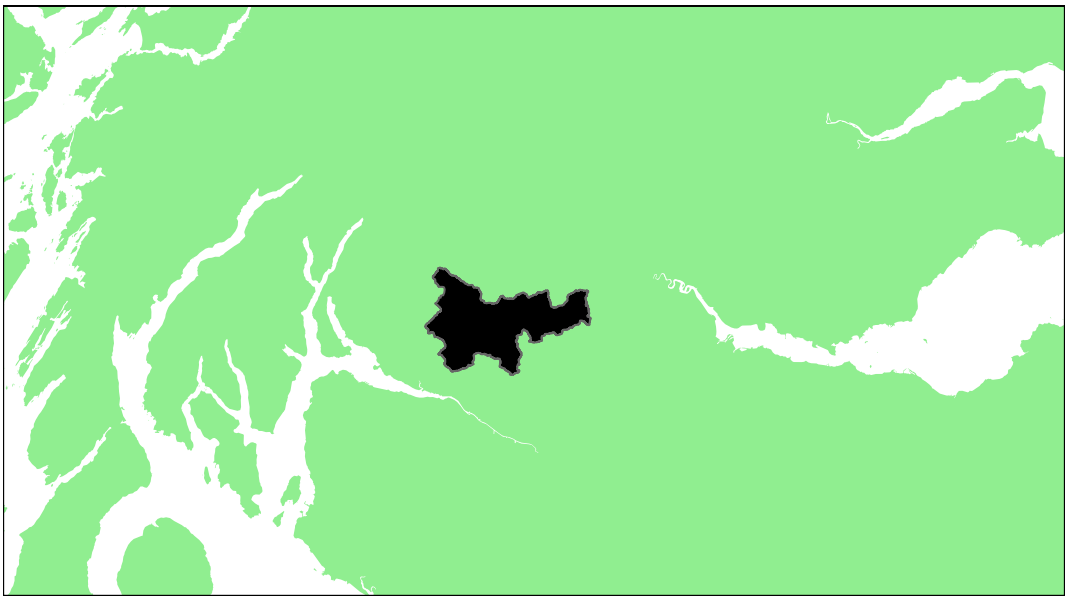

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 80.21 |
| 2015 | 88.88 |
| 2016 | 88.89 |
| 2017 | 92.46 |
| 2018 | 82.21 |




Grade 2 due to the presence of Endrick Water SAC

## Endrick Water SAC: Grade 2



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

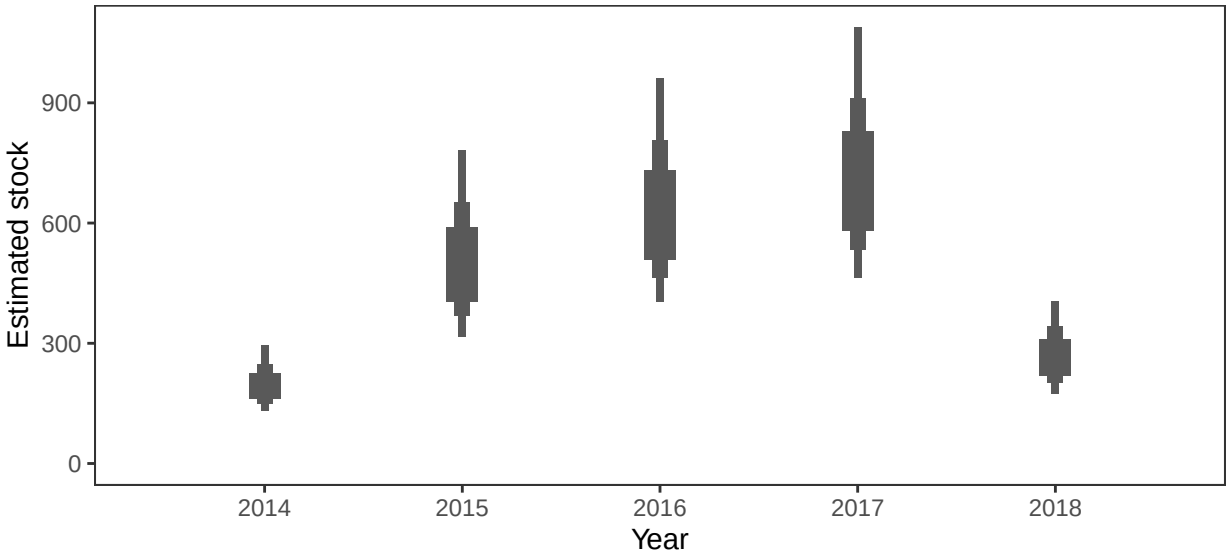
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.43 | 403,300 | 576,118 | 50.44 | 80.52 | 84.24 | 88.04 | 53.91 | 71.43 | 2 |

[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

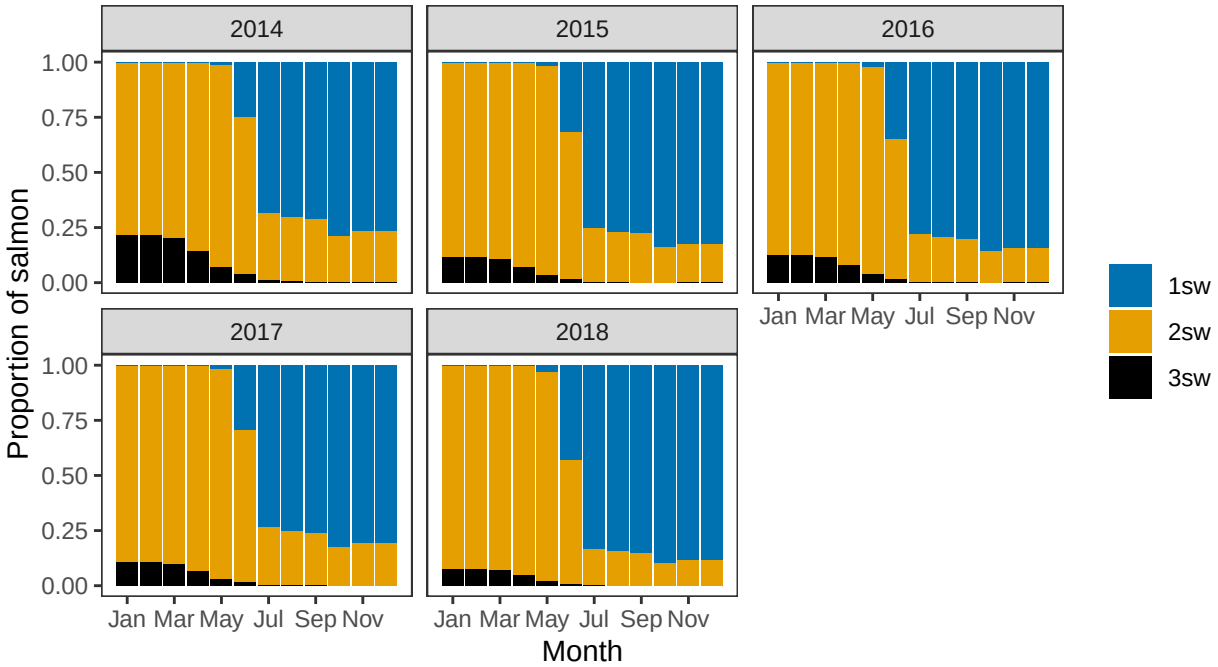
***Annual estimated stock***




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

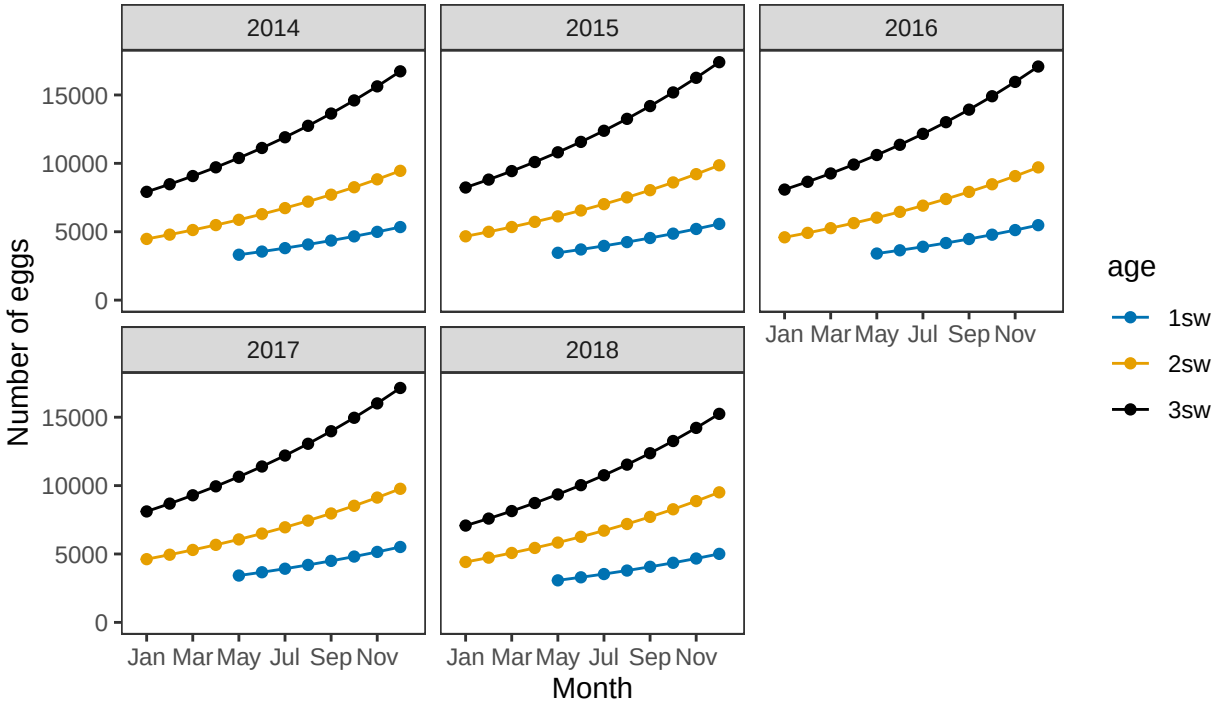
## 2. Converting Numbers of Returning Salmon to Numbers of Spawning Females

***Ages of fish***

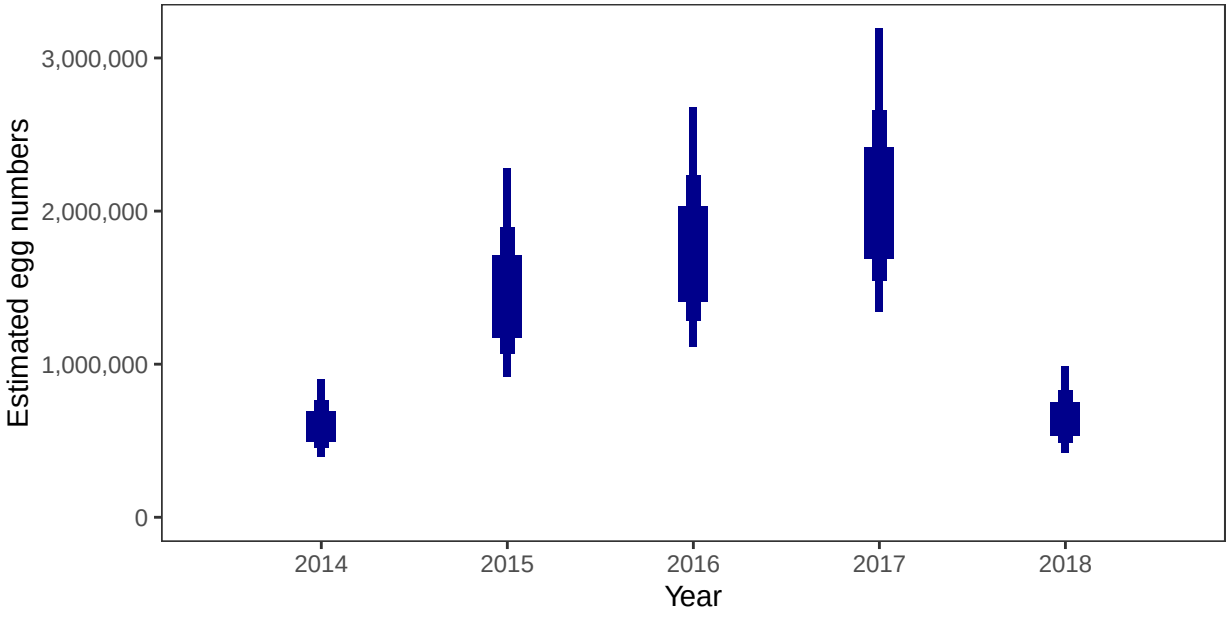


## 3. Converting Number of Spawners to Number of Eggs

### *Egg contents of females*




### *Total annual egg numbers*



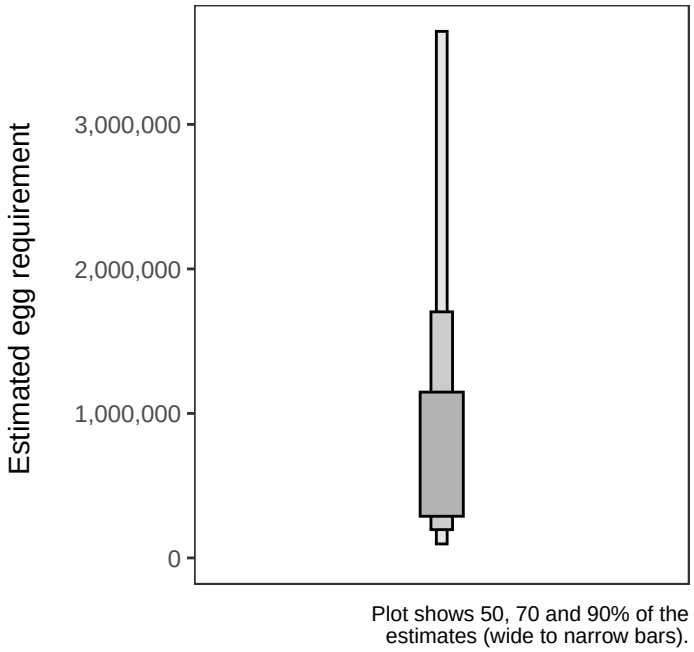

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

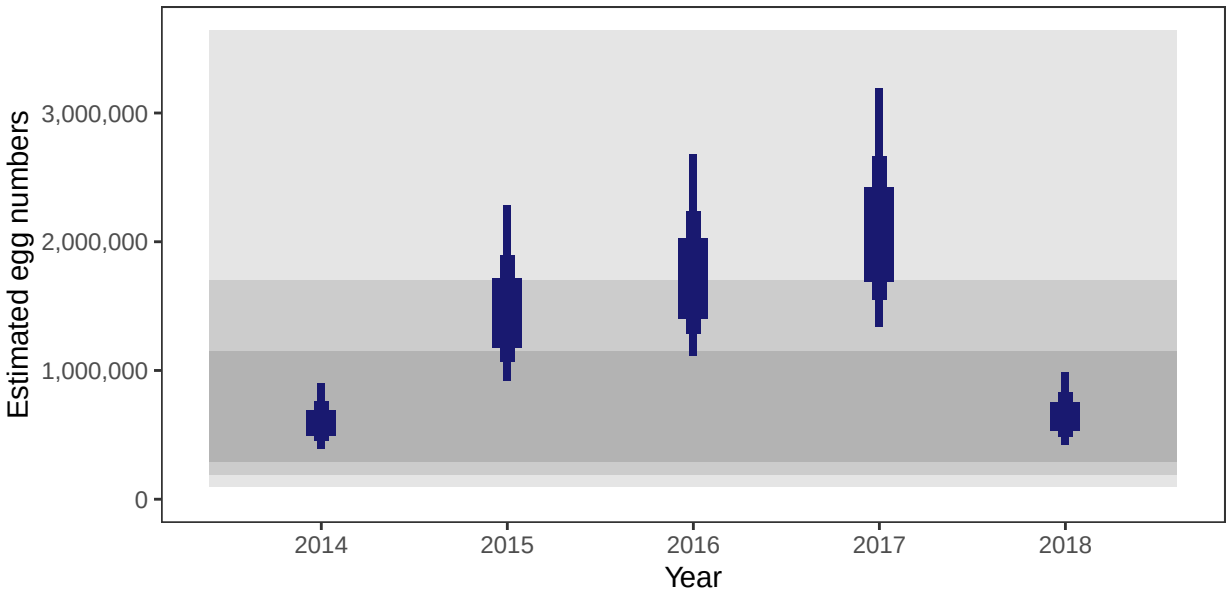
There is an estimated 423,432 square meters of known salmon habitat in the Endrick Water SAC and a further 34,851 square meters where salmon may be present.

***Egg requirement***



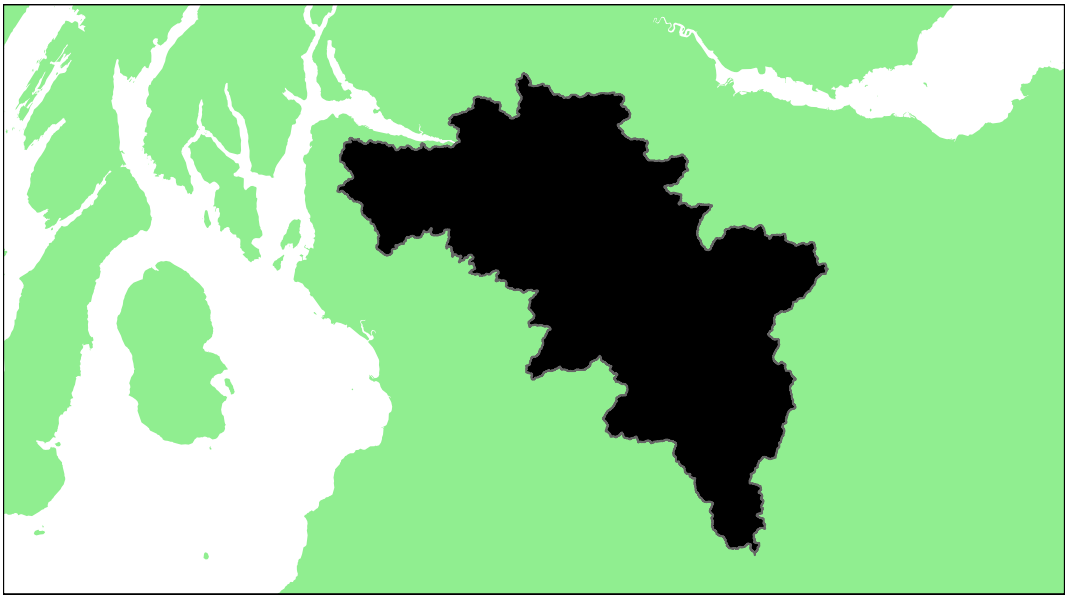

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 50.44 |
| 2015 | 80.52 |
| 2016 | 84.24 |
| 2017 | 88.04 |
| 2018 | 53.91 |




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 Clyde: Grade 2



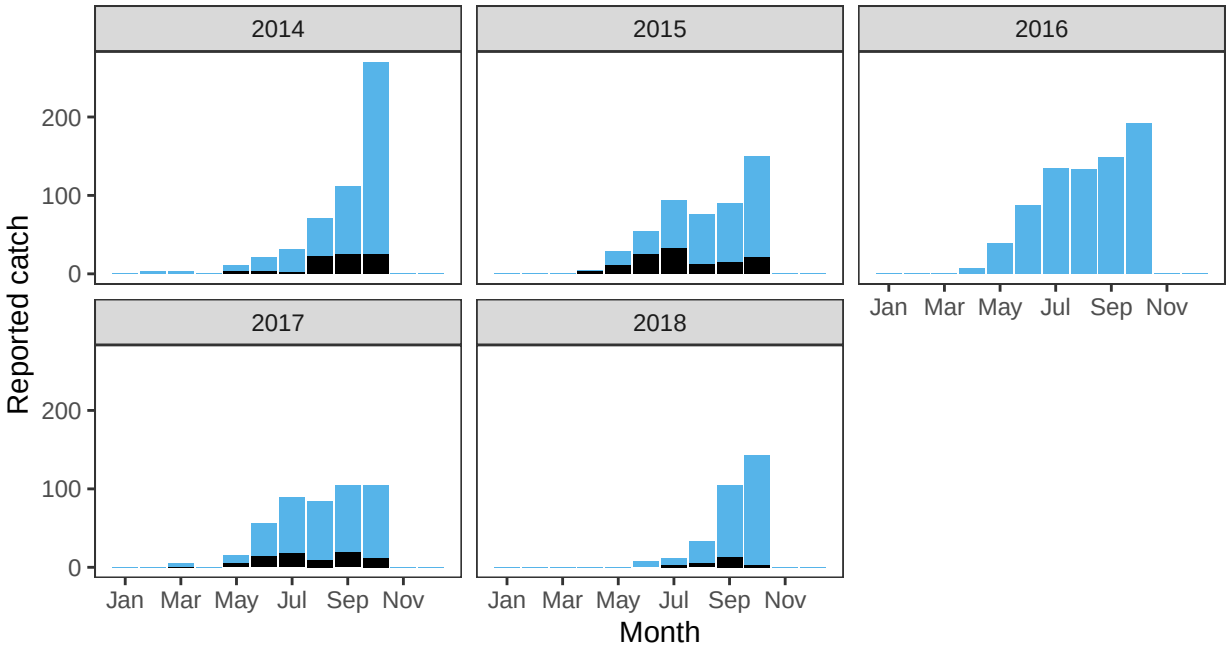
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.29 | 4,590,700 | 5,902,828 | 61.92 | 71.79 | 83.6 | 65.79 | 28.56 | 62.33 | 2 |

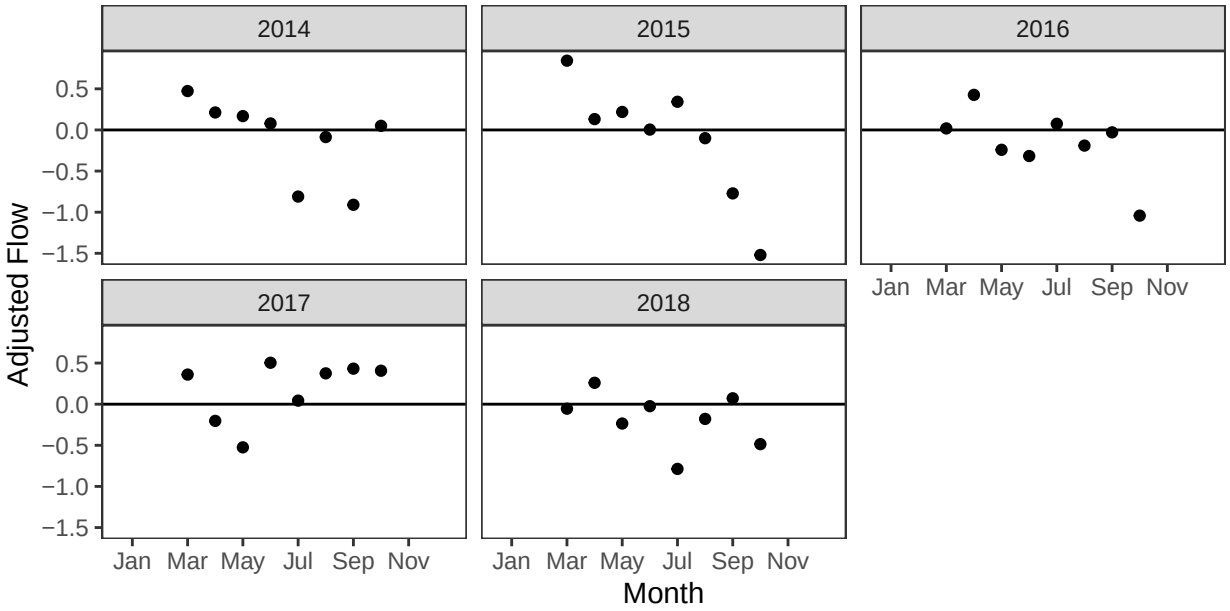
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

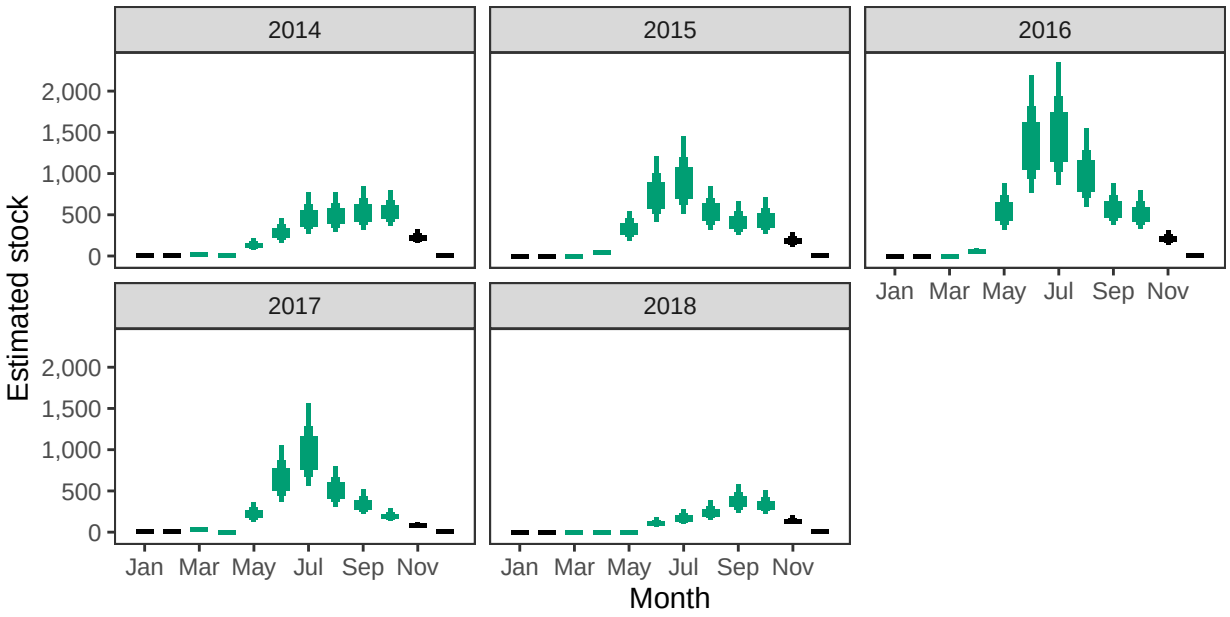
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

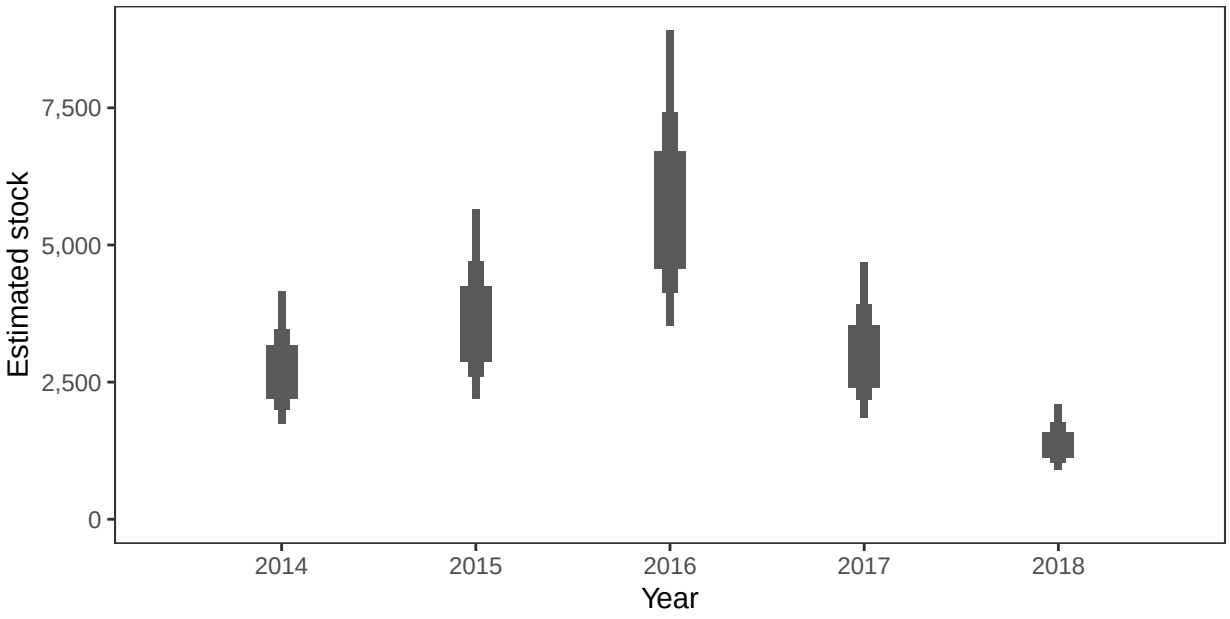


*Monthly stock estimates (out of season in black)*



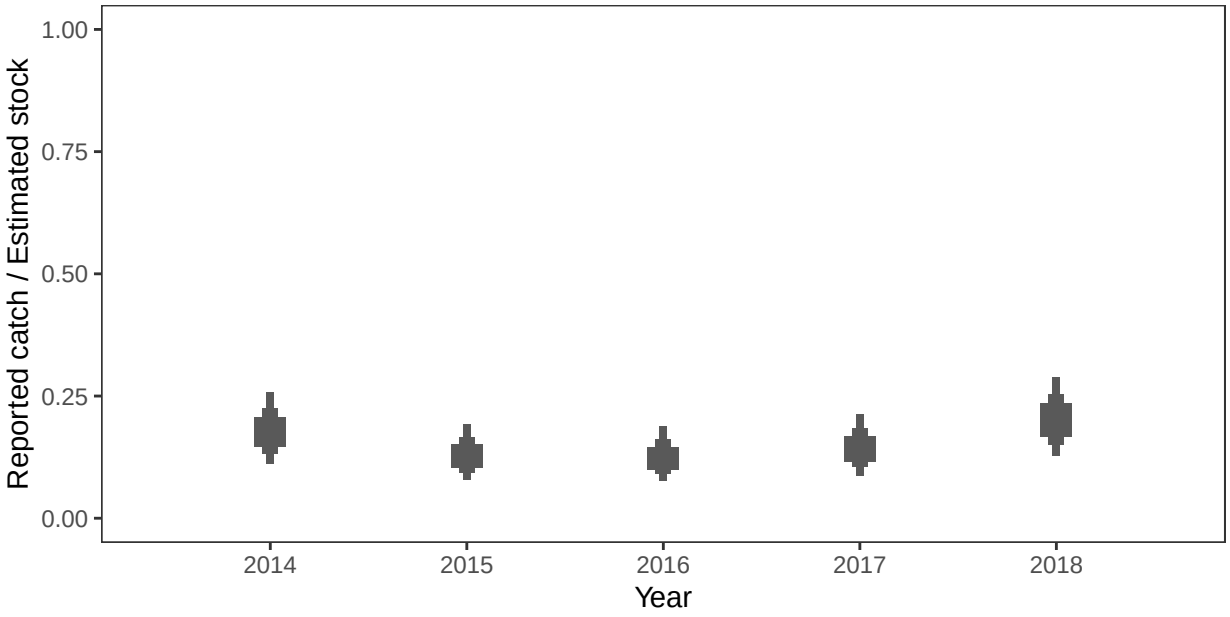

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

*Annual estimated stock*




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

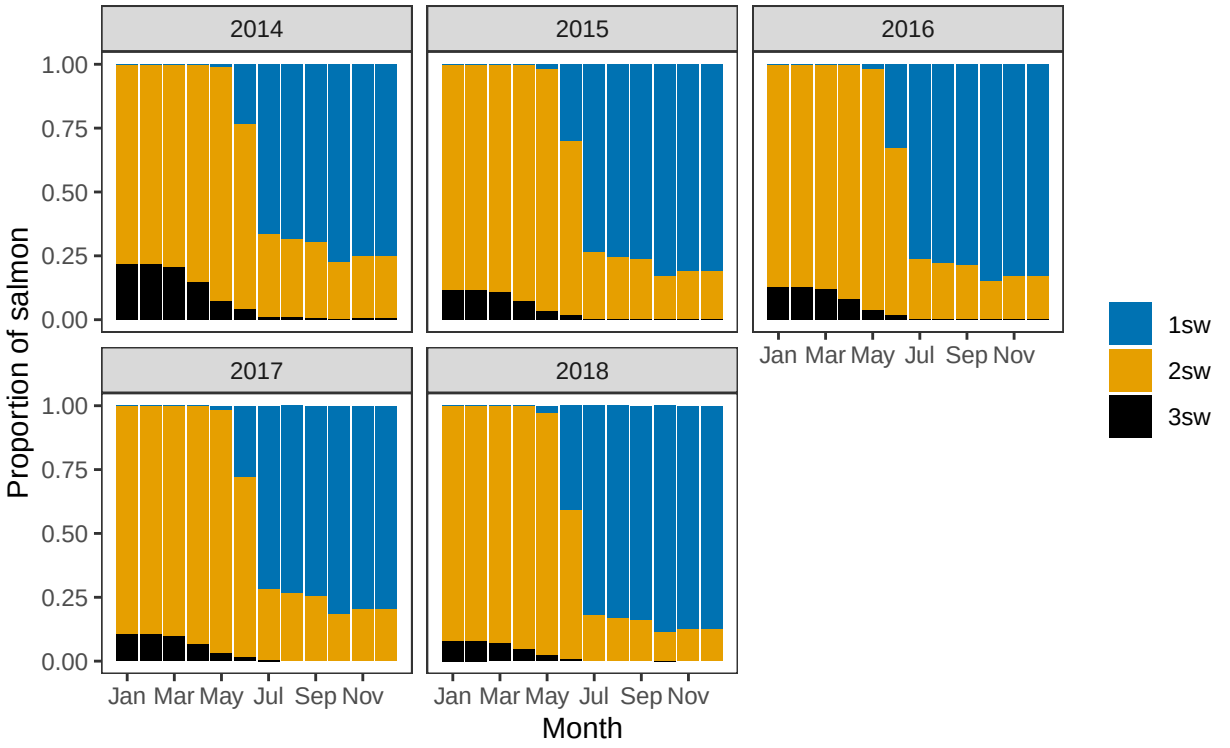
***Annual catch as a proportion of stock***



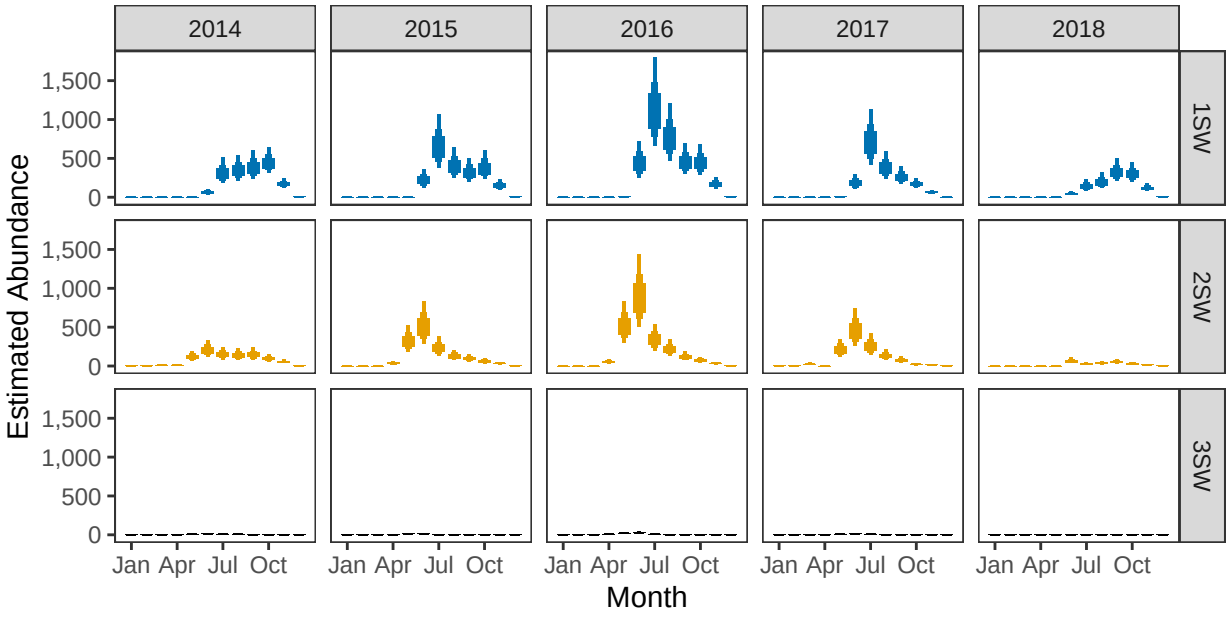

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



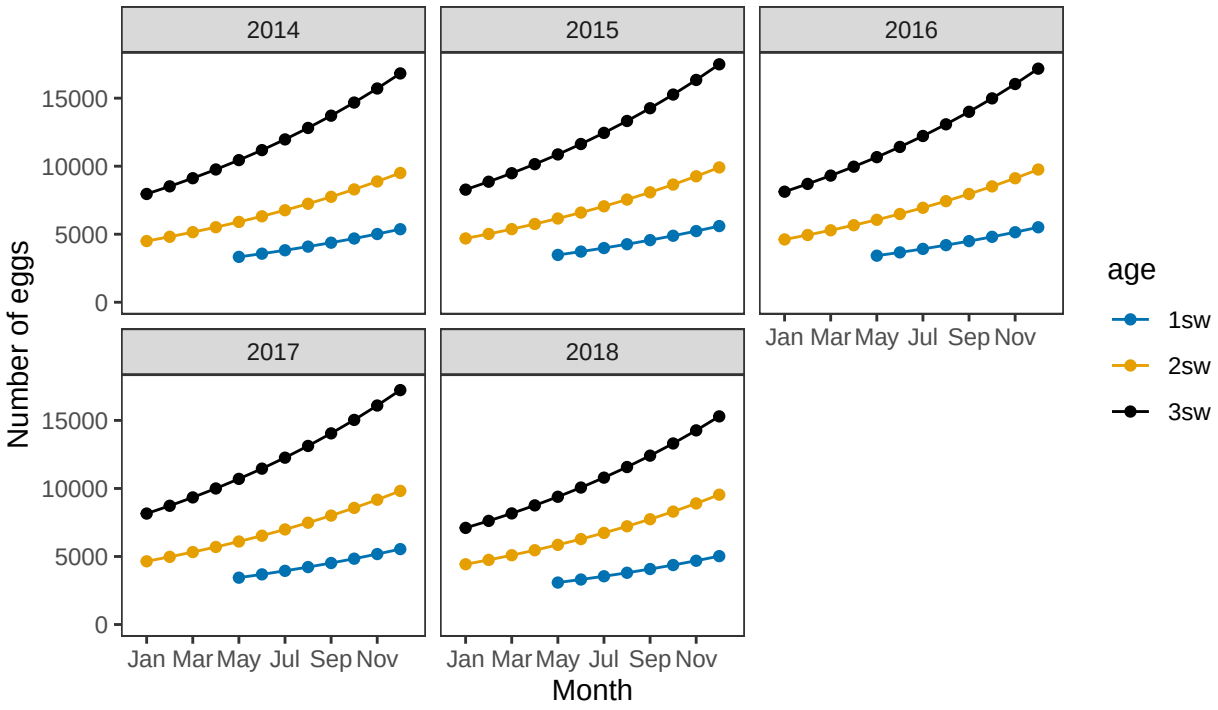
*Monthly number of spawning females*



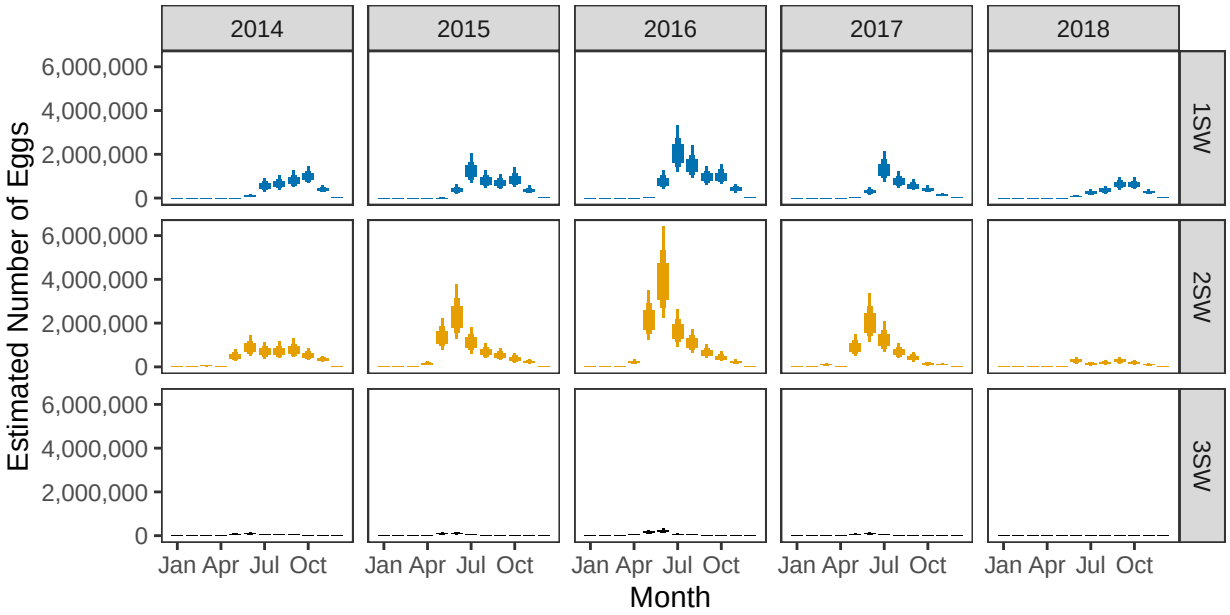

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

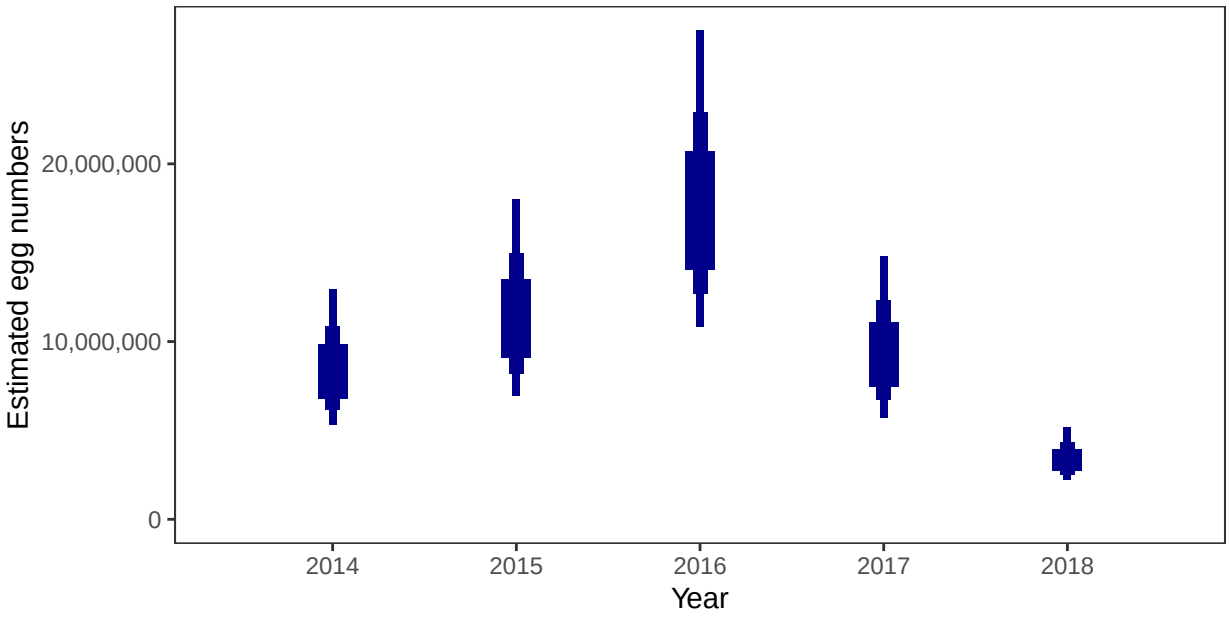


***Monthly number of eggs***




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

***Total annual egg numbers***



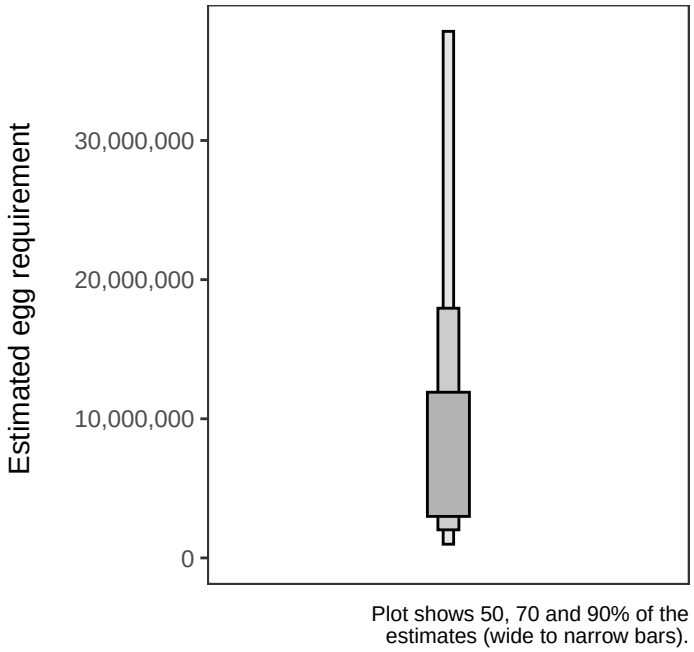

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

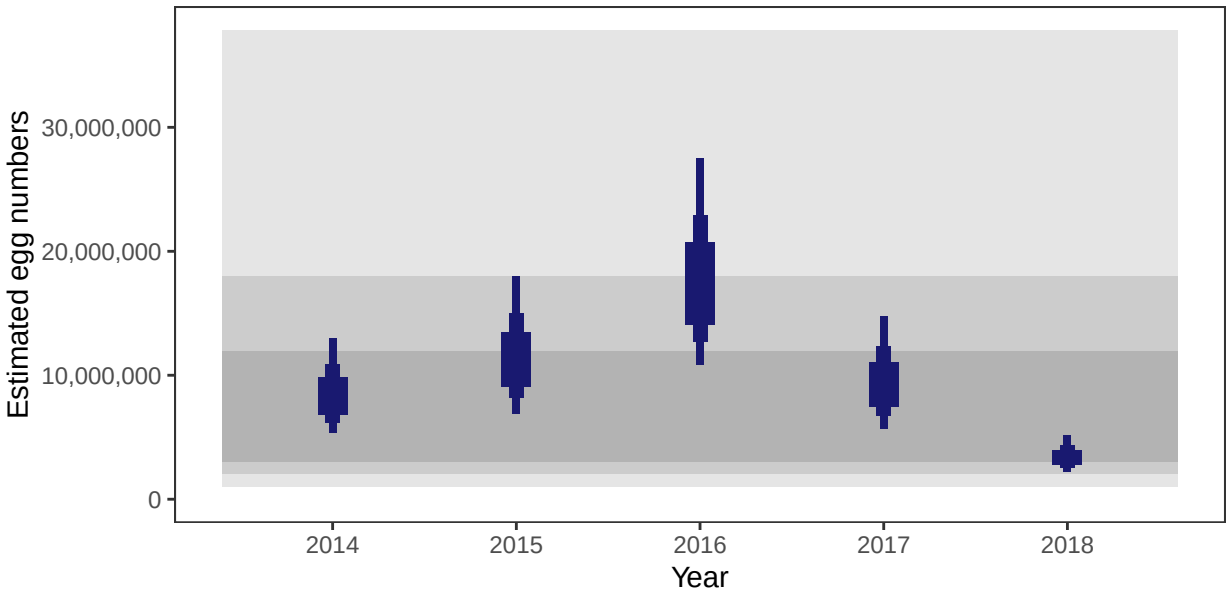
There is an estimated 4,015,765 square meters of known salmon habitat in the River Clyde and a further 1,200,916 square meters where salmon may be present.

***Egg requirement***



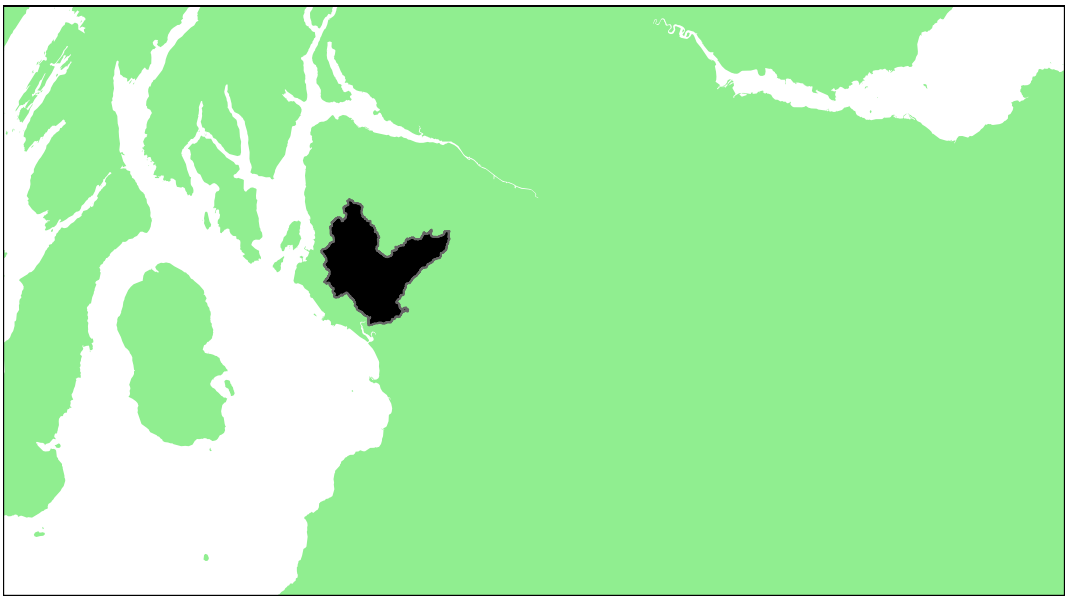

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 61.92 |
| 2015 | 71.79 |
| 2016 | 83.60 |
| 2017 | 65.79 |
| 2018 | 28.56 |




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 Garnock: Grade 2



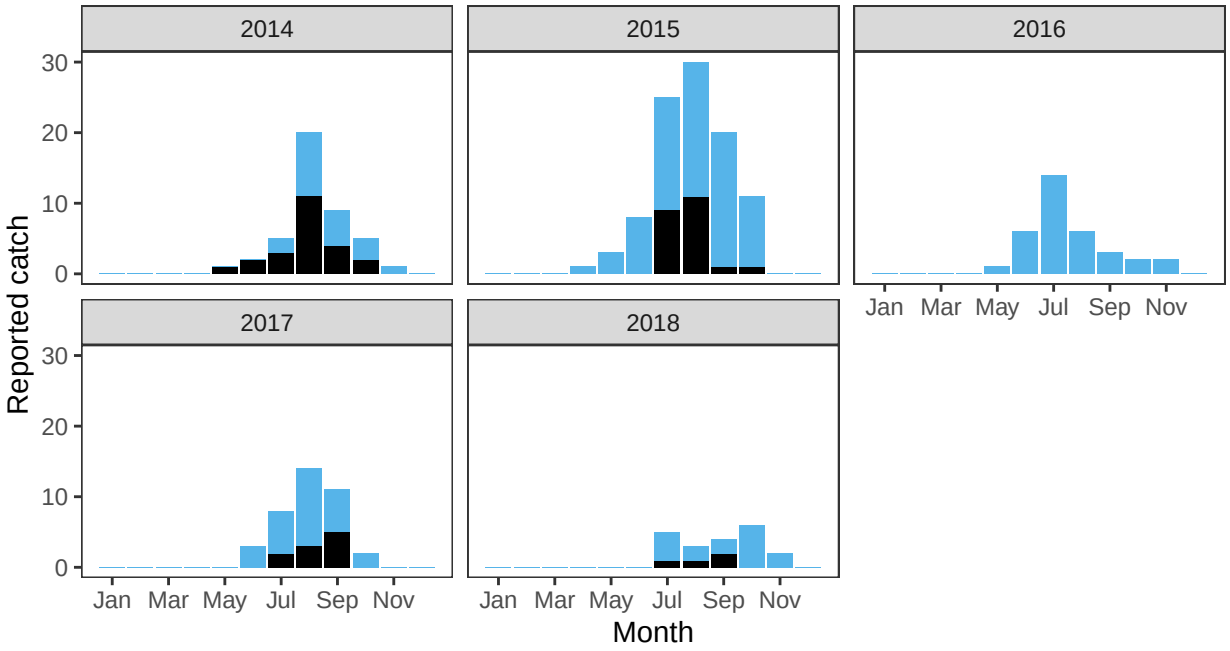
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.5 | 432,700 | 649,760 | 65.83 | 85.4 | 65.57 | 50.23 | 35.1 | 60.43 | 2 |

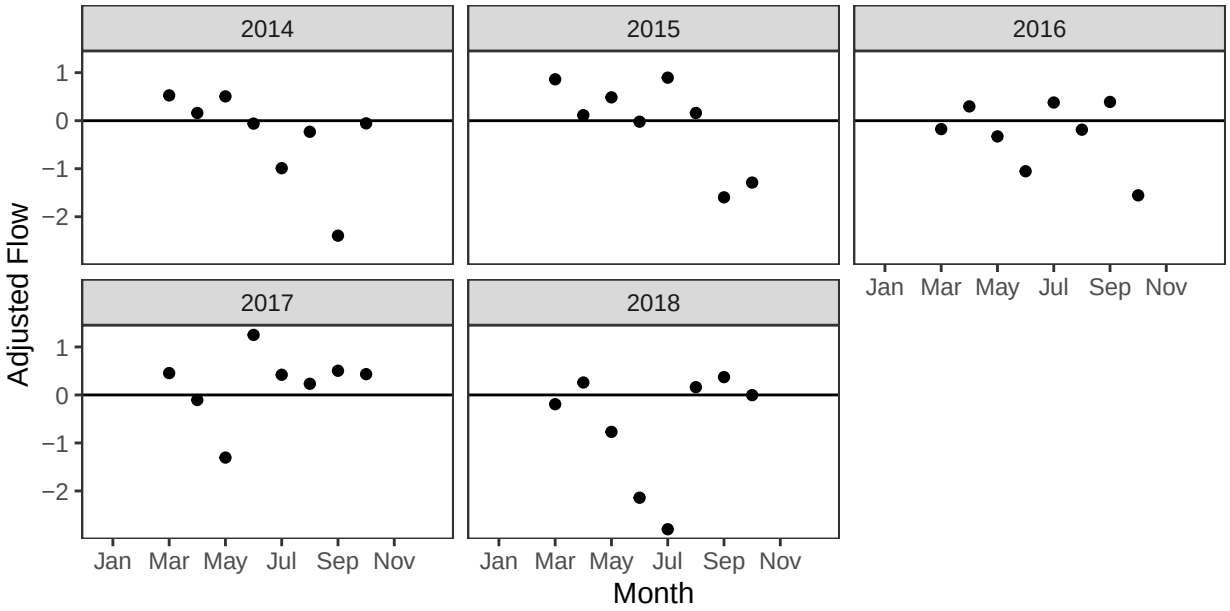
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

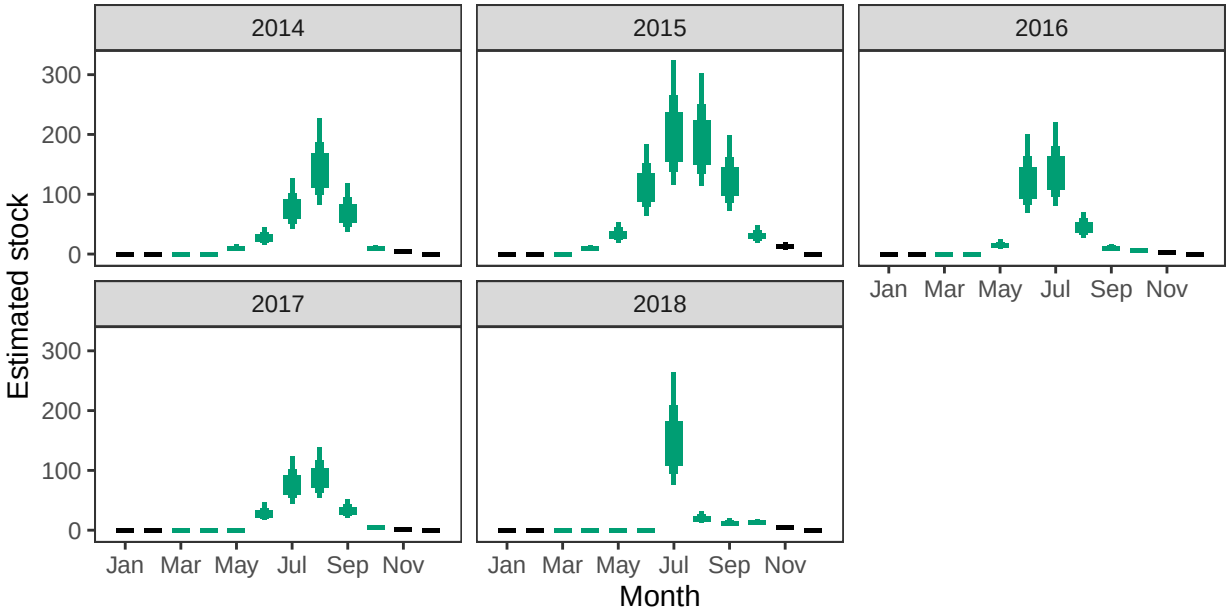
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

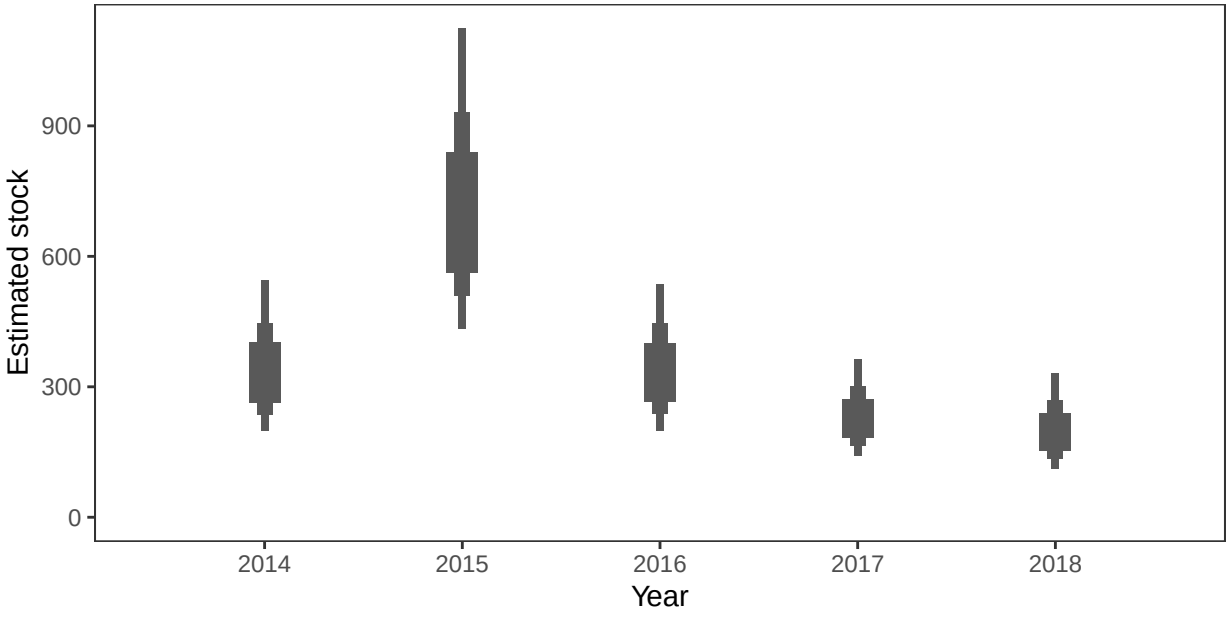


*Monthly stock estimates (out of season in black)*



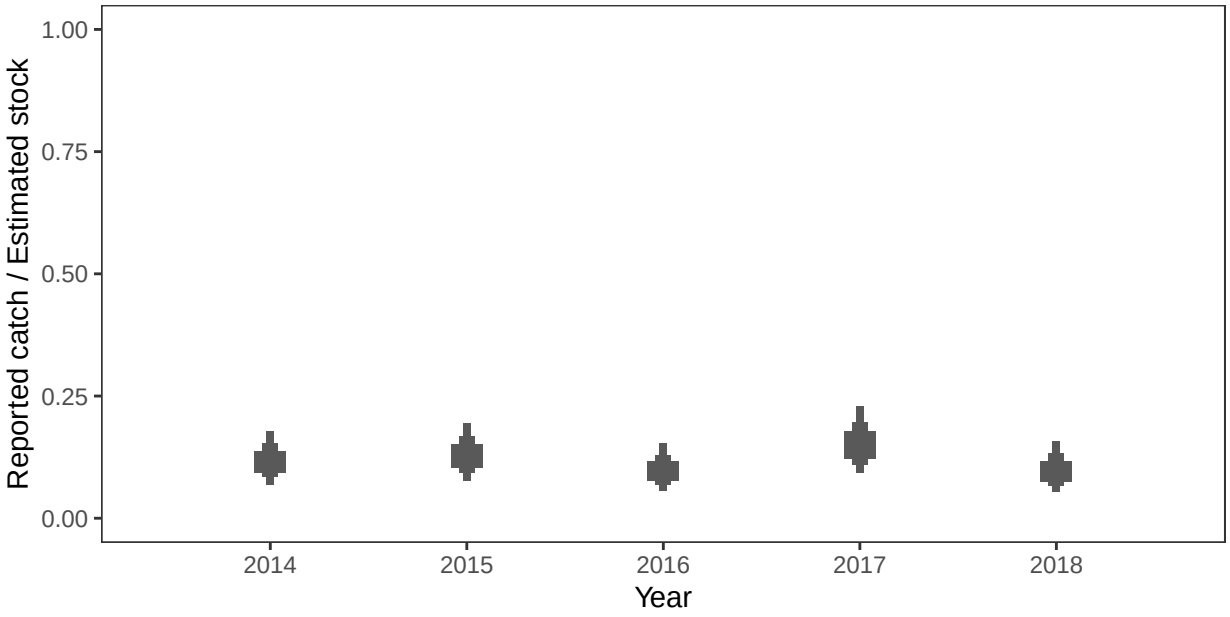

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

*Annual estimated stock*




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

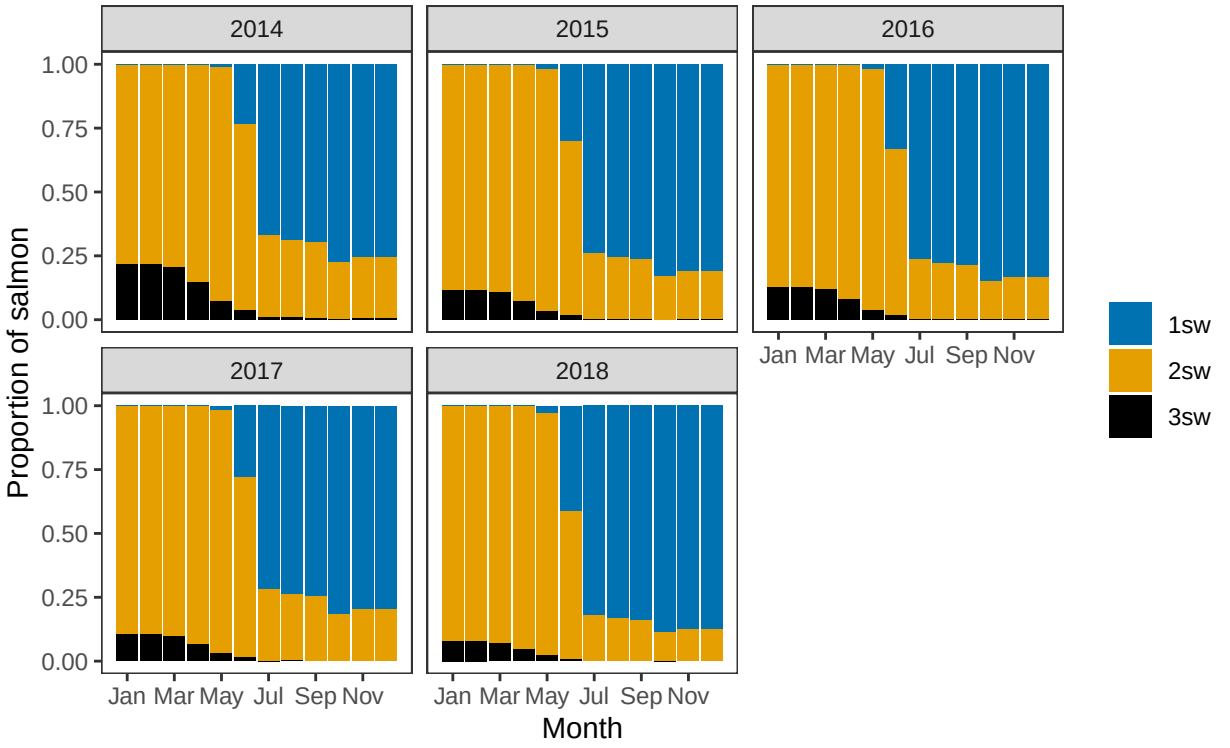
***Annual catch as a proportion of stock***



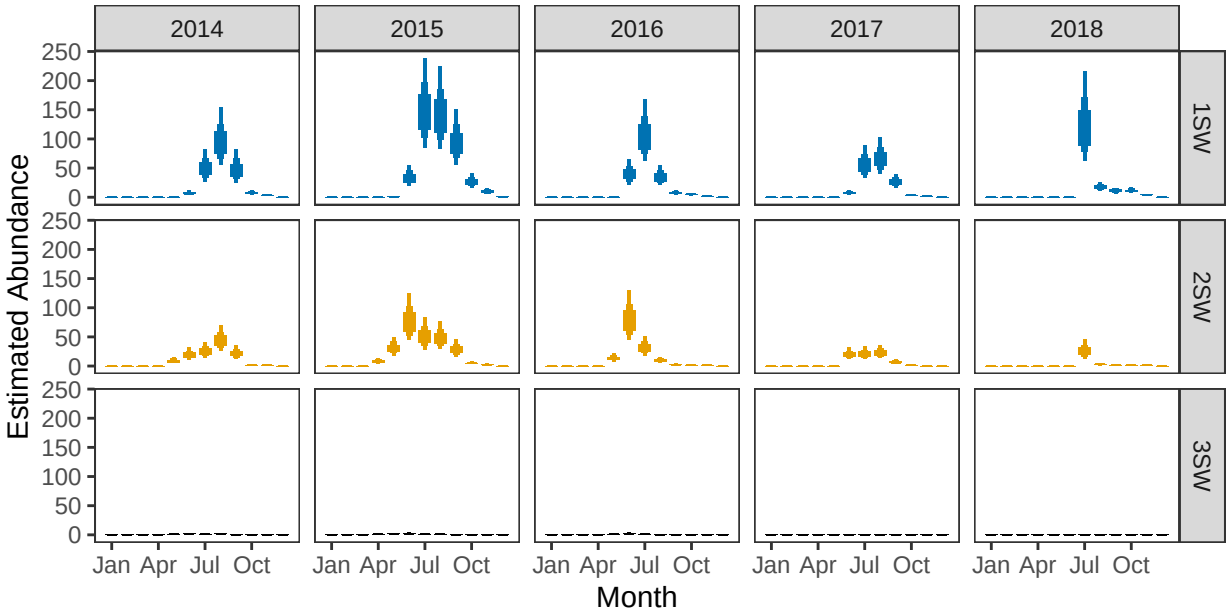

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



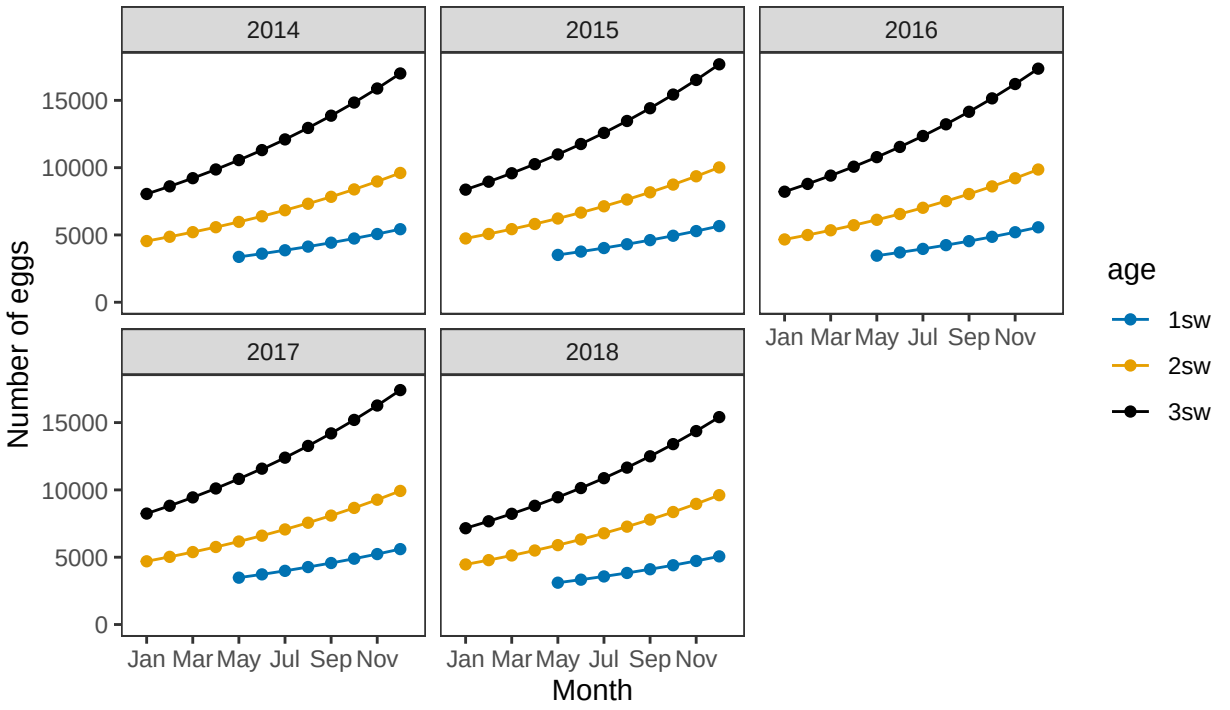
*Monthly number of spawning females*



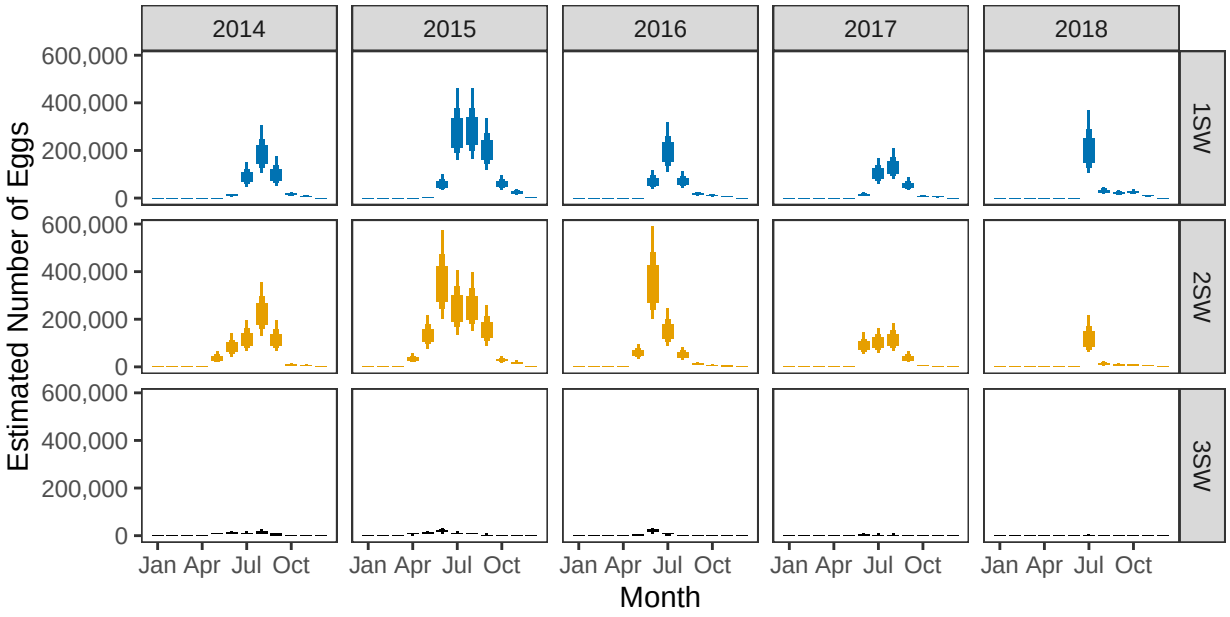

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

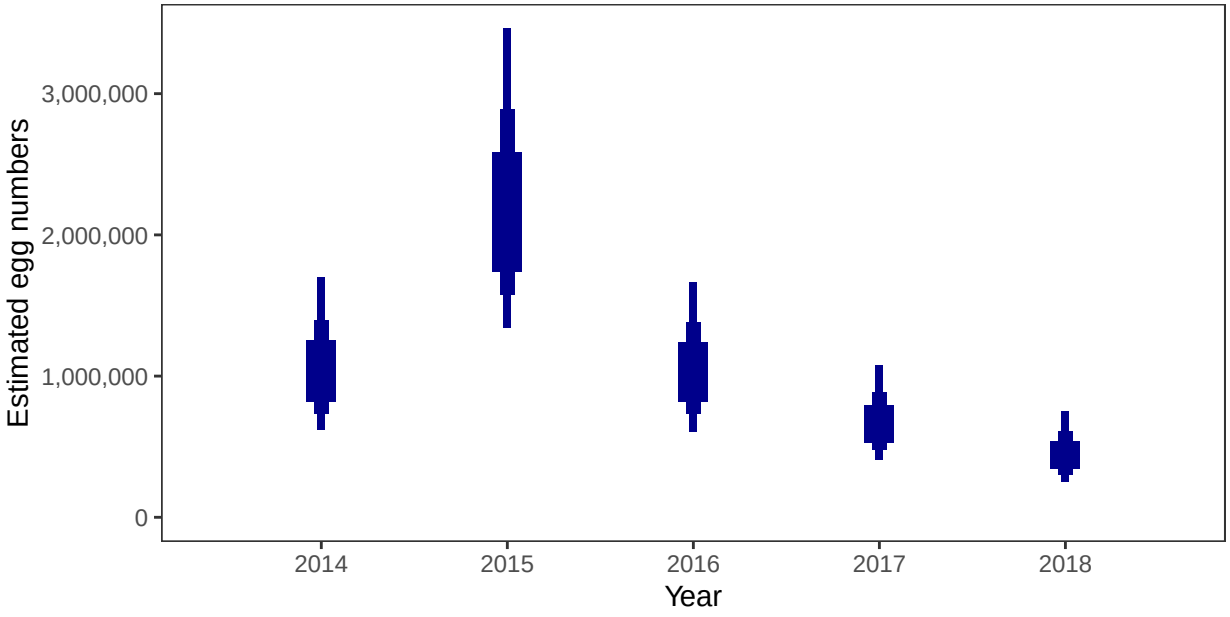


*Monthly number of eggs*




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

*Total annual egg numbers*



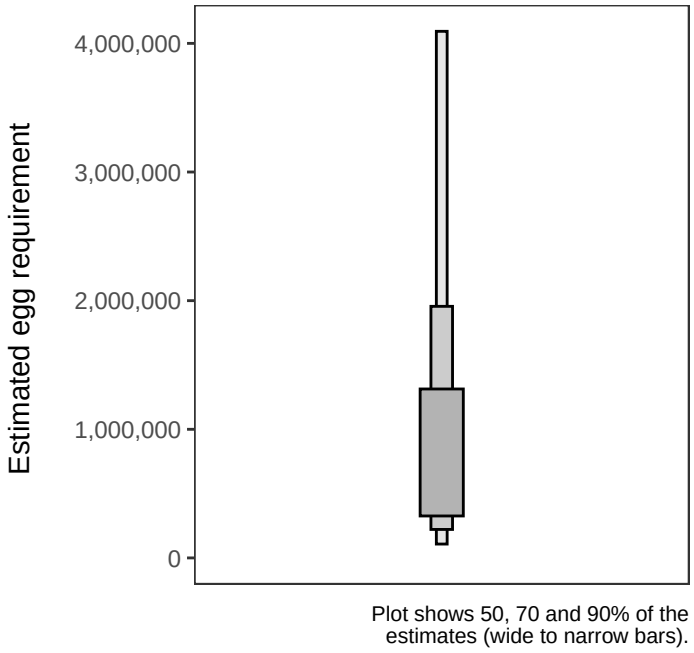

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

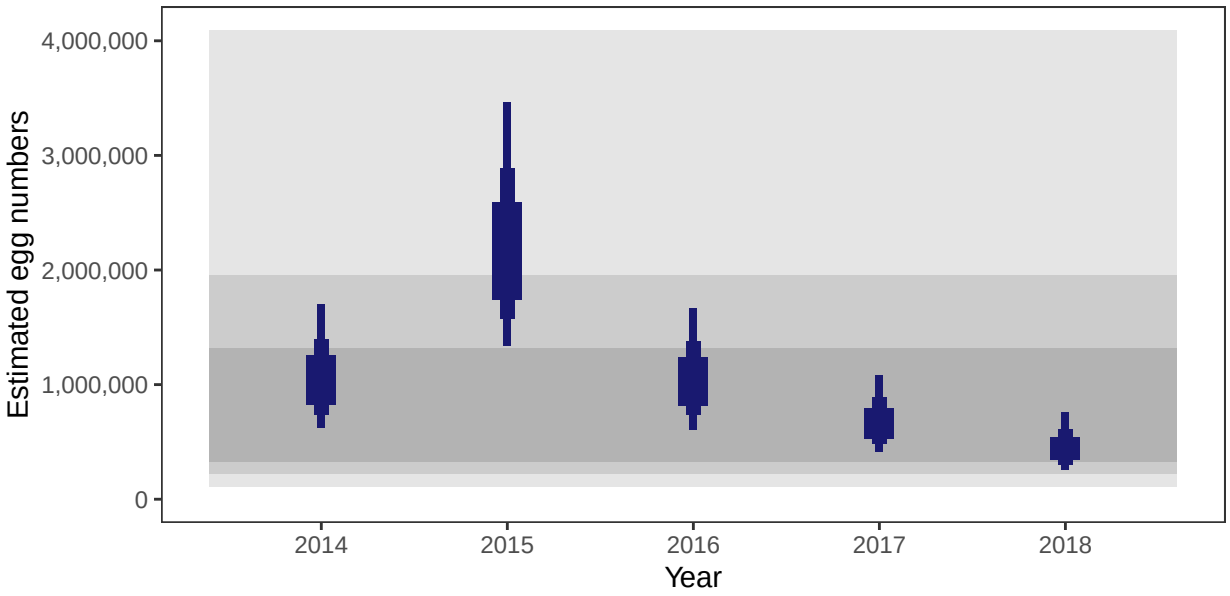
There is an estimated 489,353 square meters of known salmon habitat in the River Garnock and a further 2,338 square meters where salmon may be present.

### *Egg requirement*



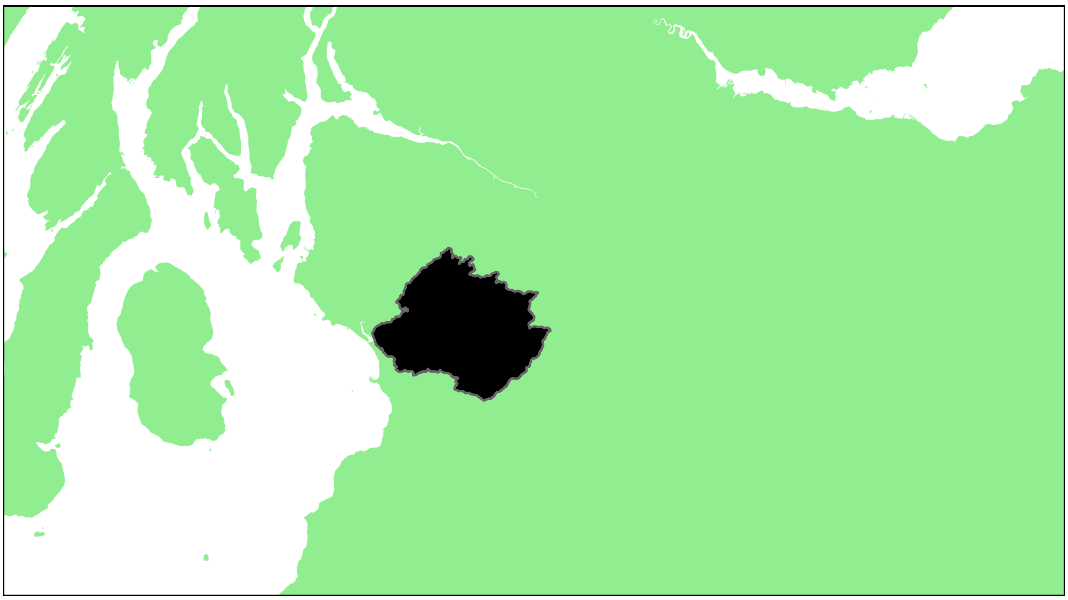

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 65.83 |
| 2015 | 85.40 |
| 2016 | 65.57 |
| 2017 | 50.23 |
| 2018 | 35.10 |




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 Irvine: Grade 3



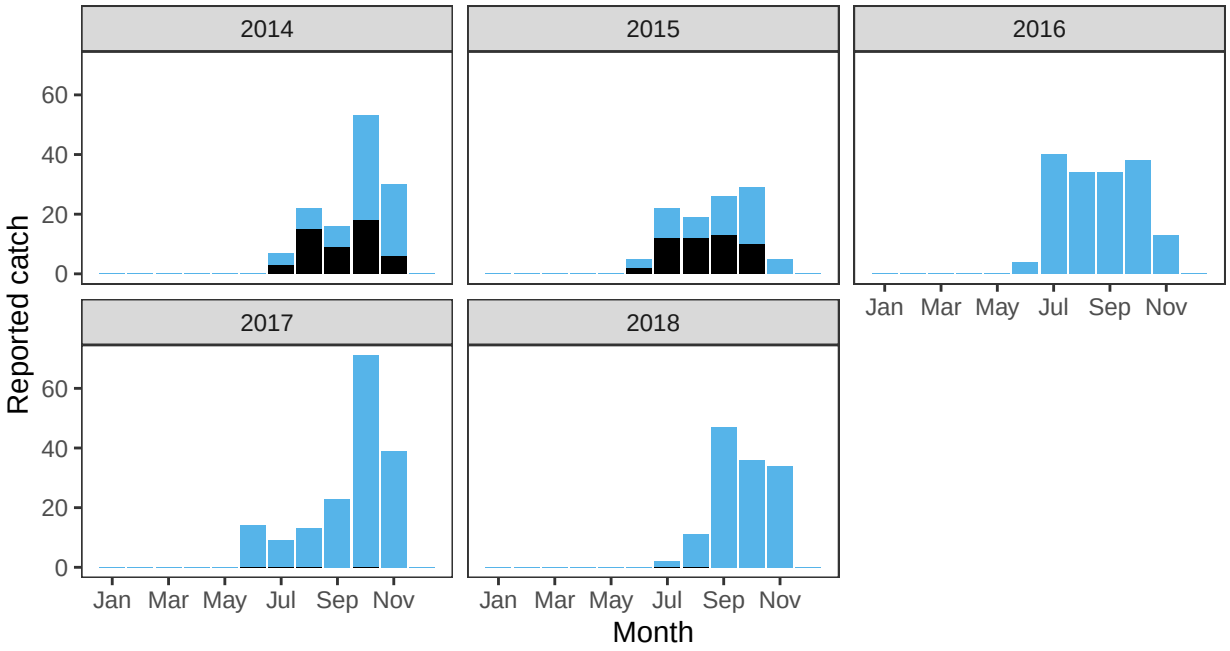
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.47 | 1,249,300 | 1,837,162 | 41.16 | 53.32 | 62.84 | 50.95 | 25.51 | 46.76 | 3 |

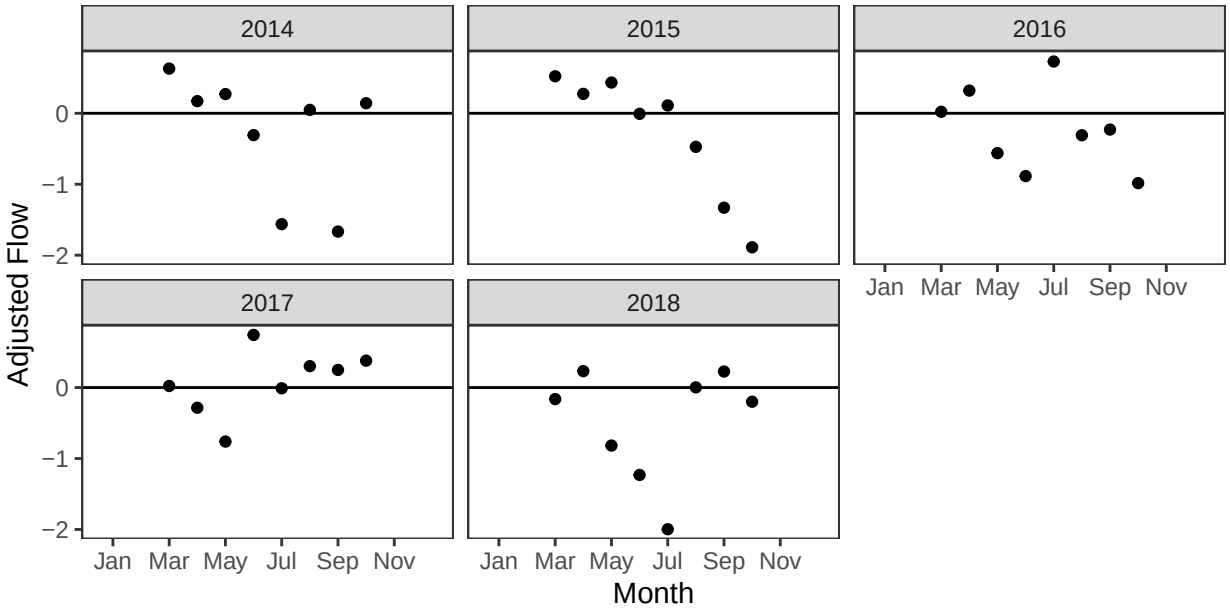
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

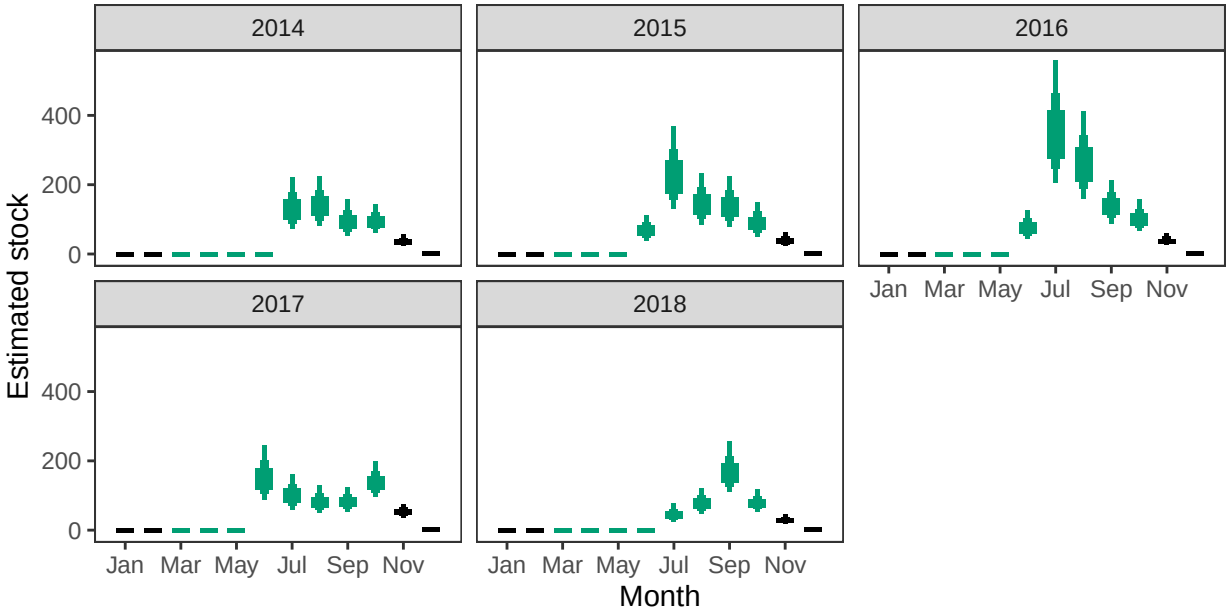
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

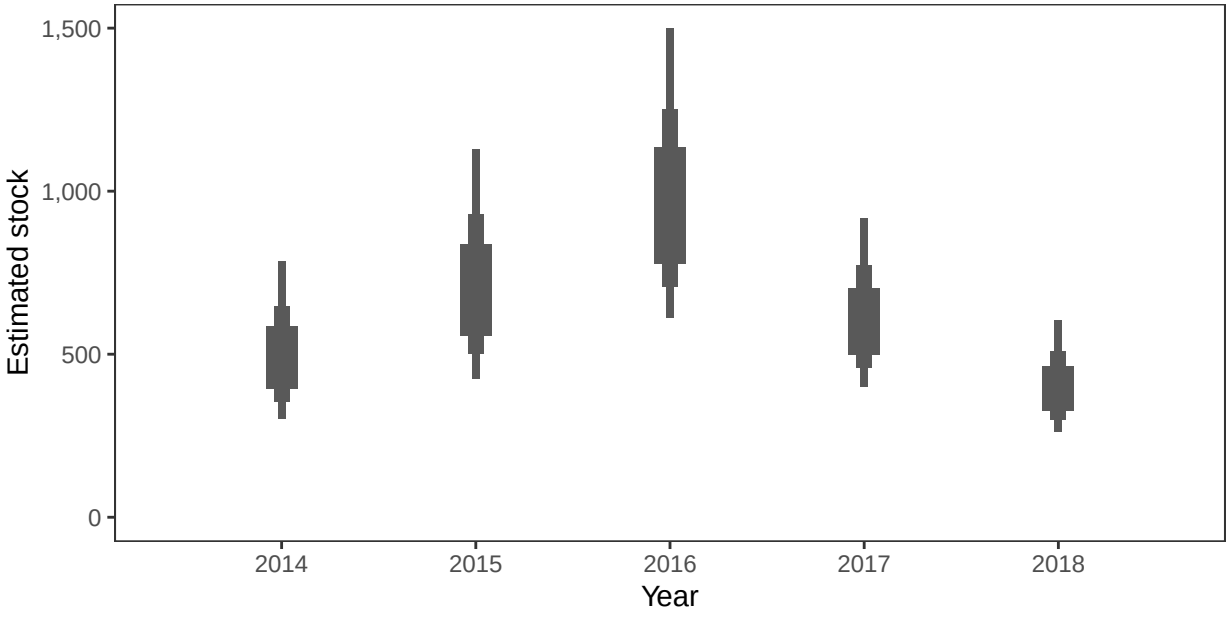


***Monthly stock estimates (out of season in black)***



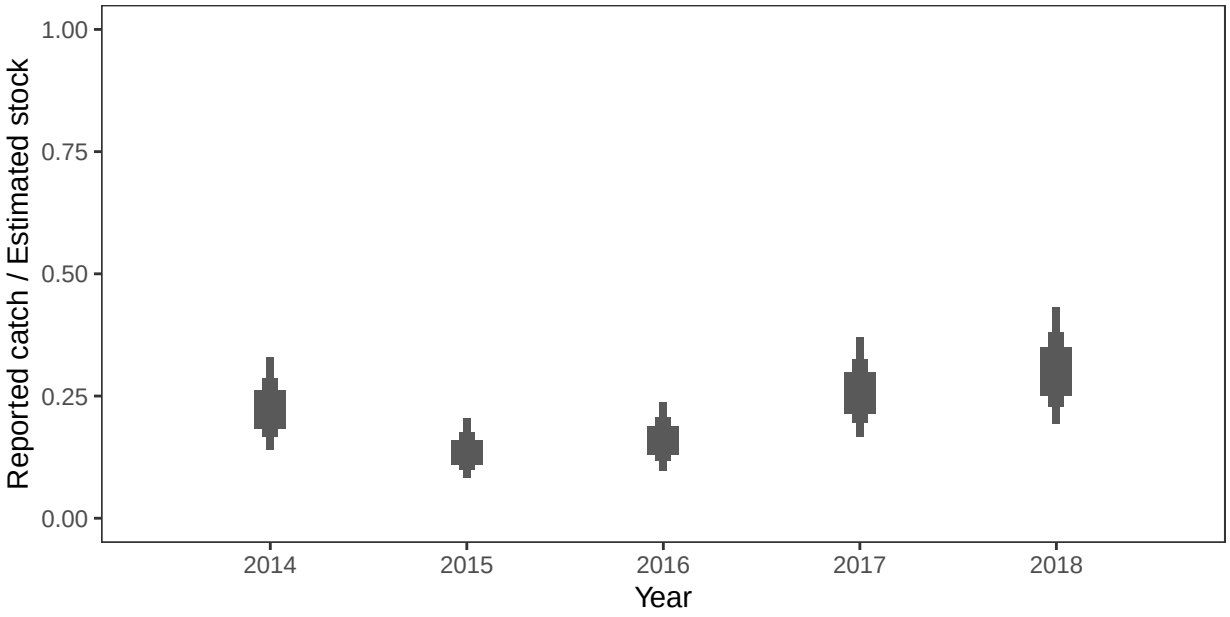

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

***Annual estimated stock***




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

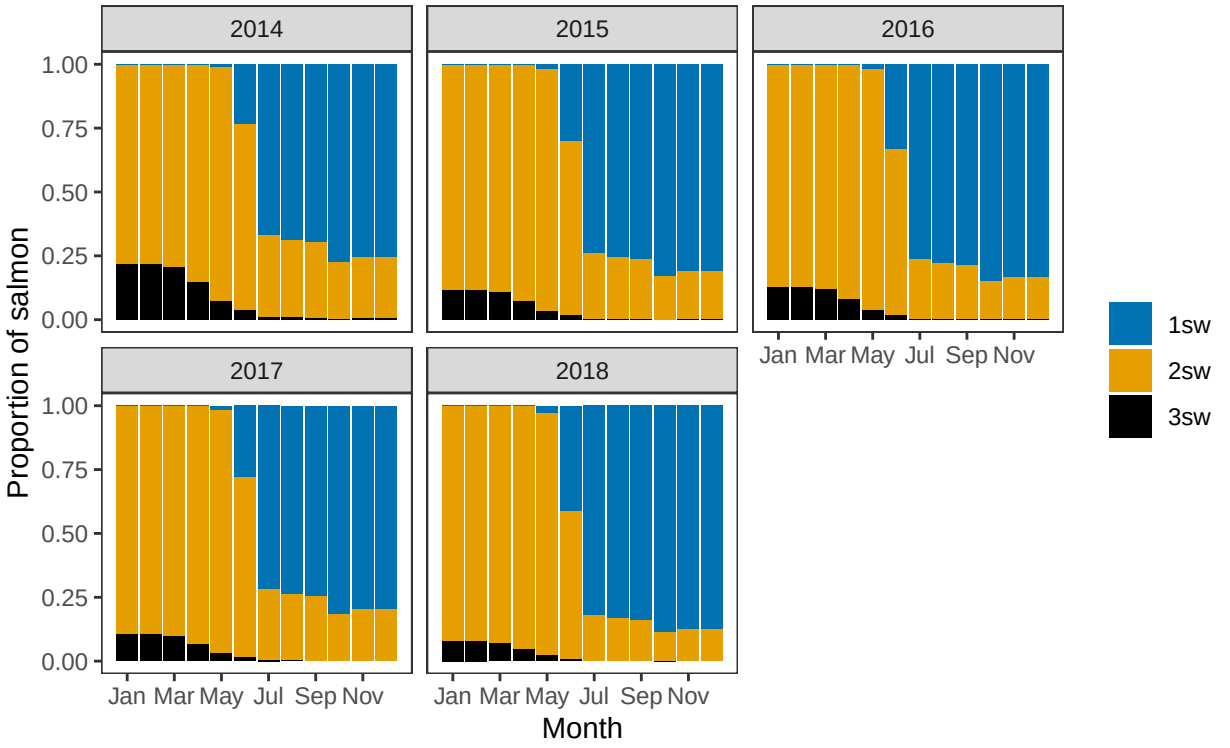
***Annual catch as a proportion of stock***



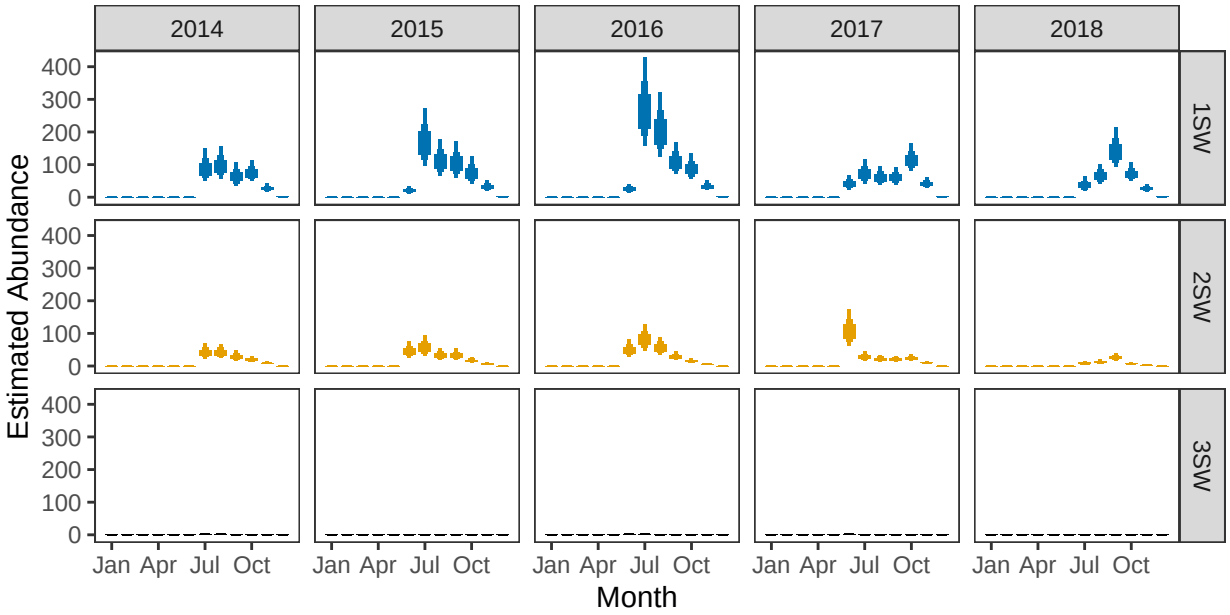

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



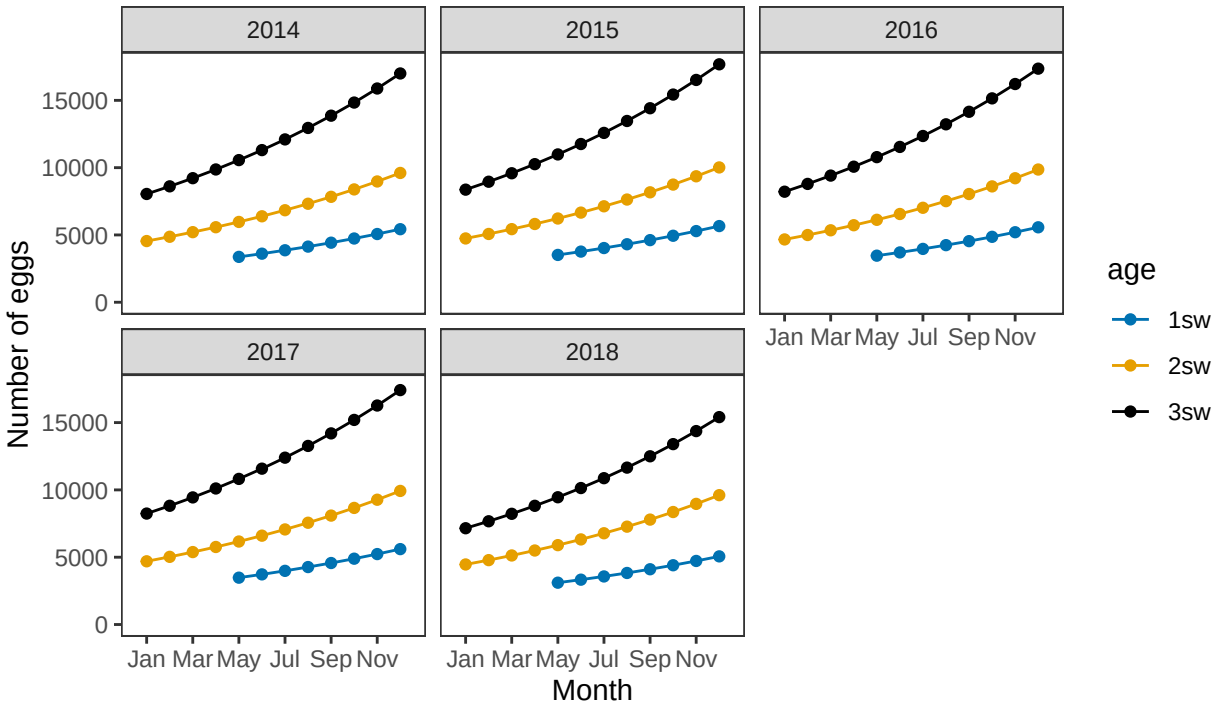
*Monthly number of spawning females*



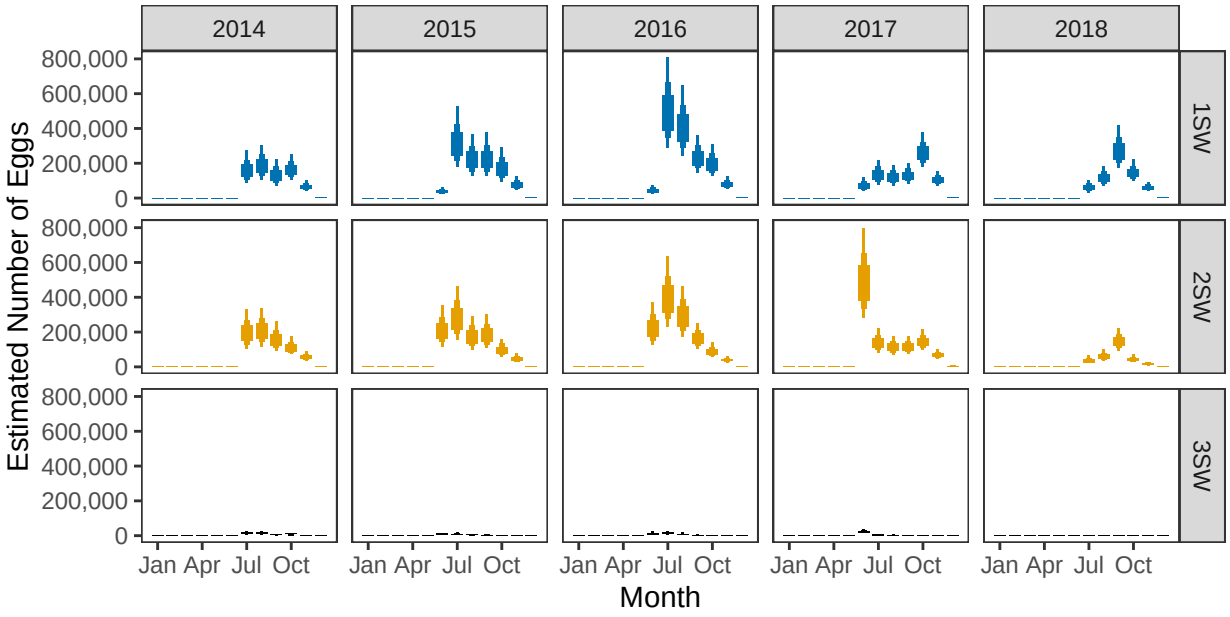

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

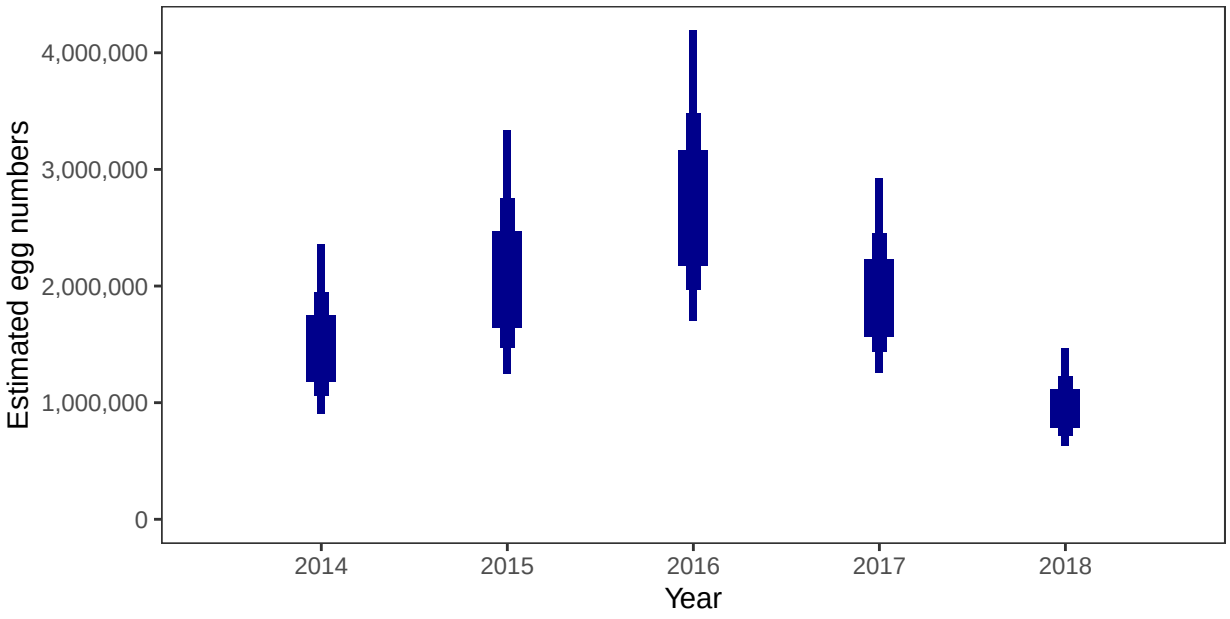


***Monthly number of eggs***




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

***Total annual egg numbers***



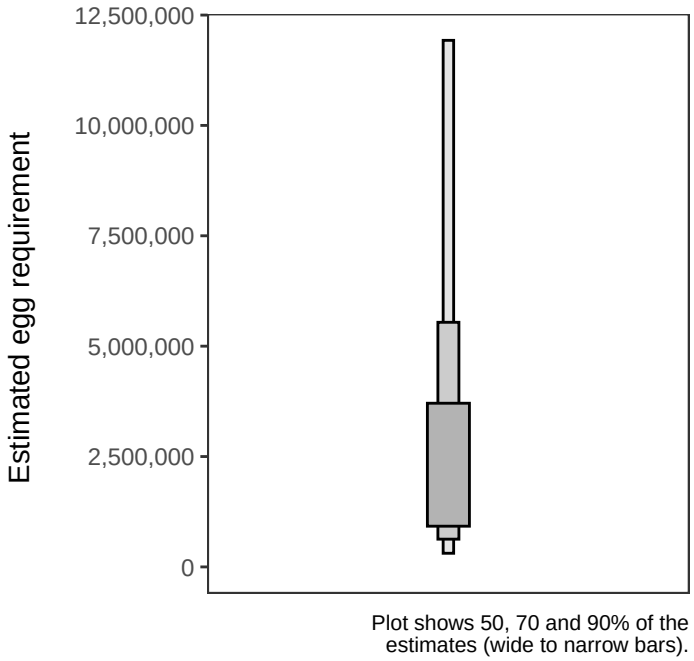

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

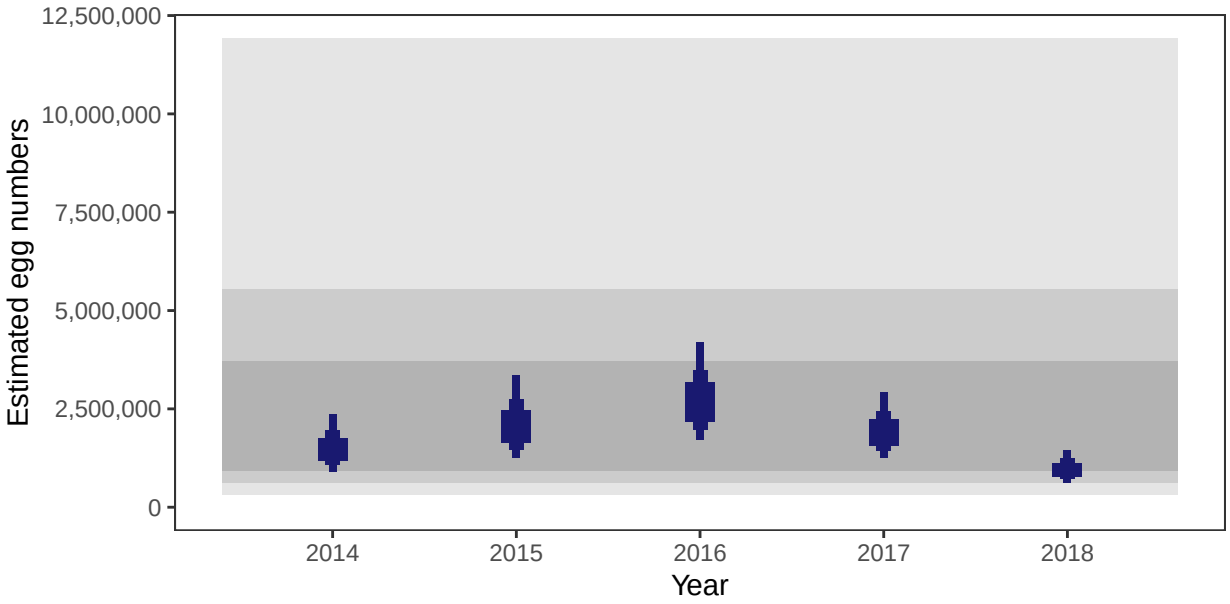
There is an estimated 1,356,360 square meters of known salmon habitat in the River Irvine and a further 63,296 square meters where salmon may be present.

***Egg requirement***



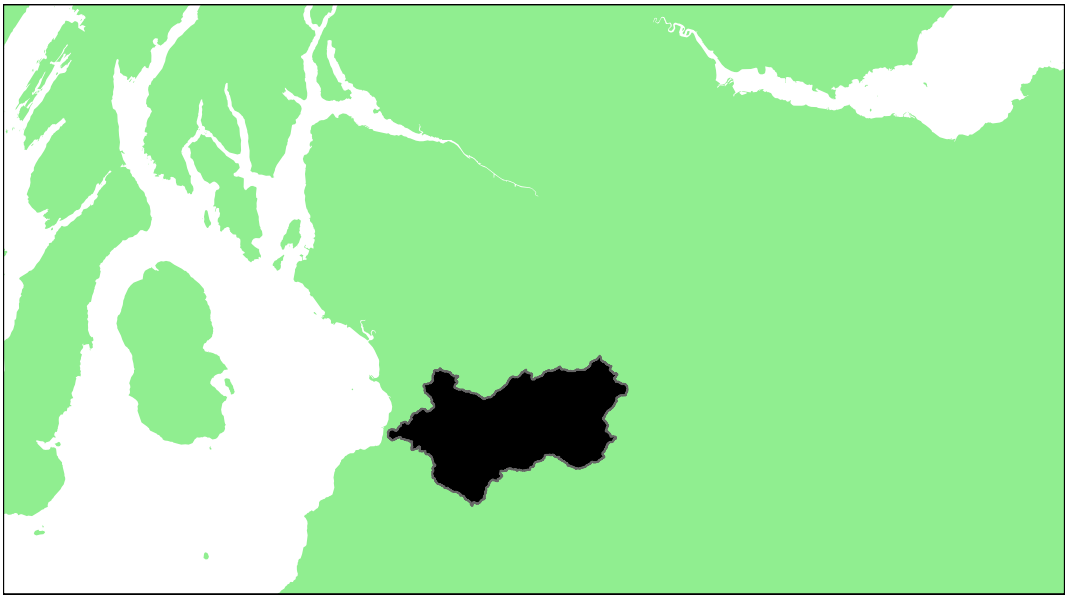

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 41.16 |
| 2015 | 53.32 |
| 2016 | 62.84 |
| 2017 | 50.95 |
| 2018 | 25.51 |




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 Ayr: Grade 3



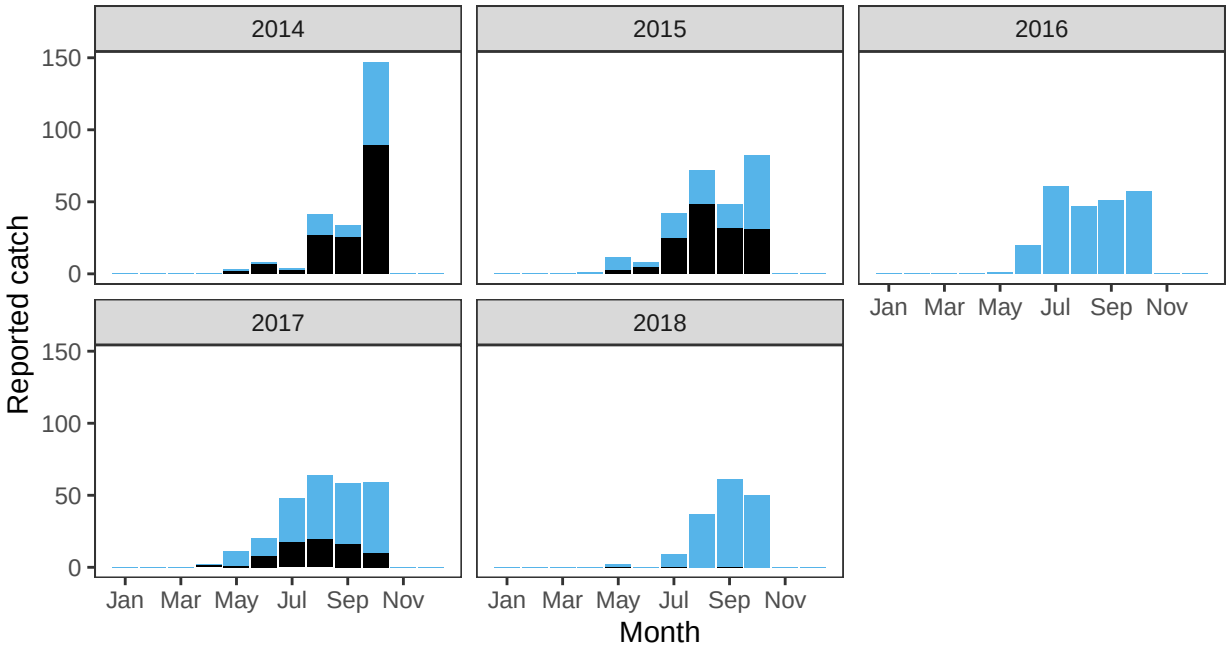
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 1.73 | 2,292,700 | 3,964,102 | 42.53 | 63.68 | 60.31 | 61.27 | 26.42 | 50.84 | 3 |

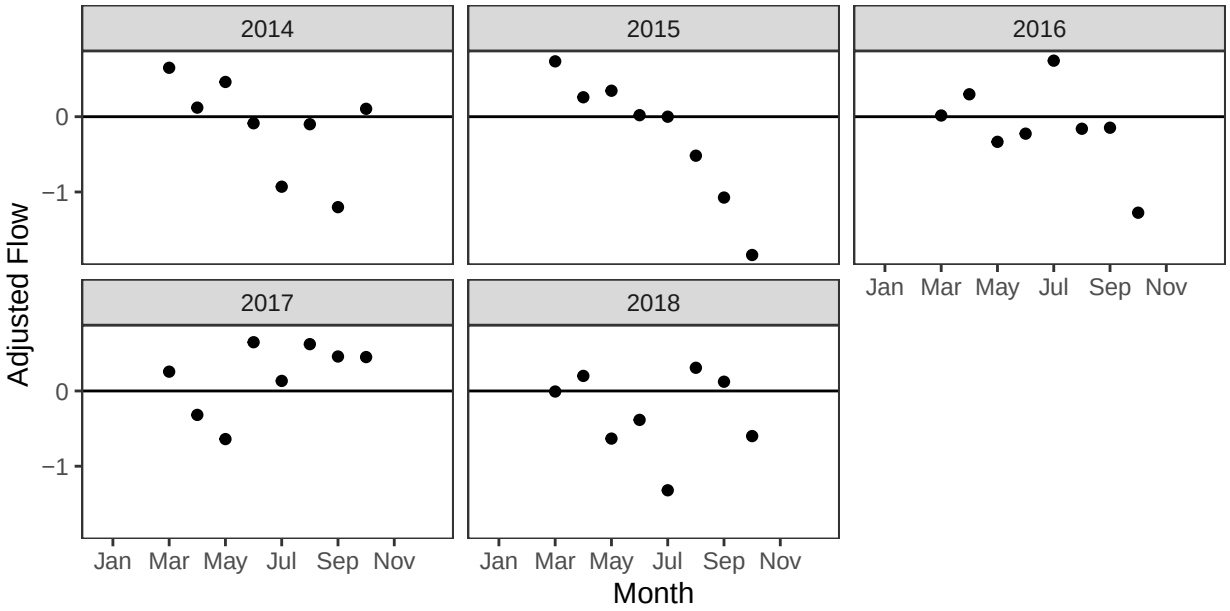
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

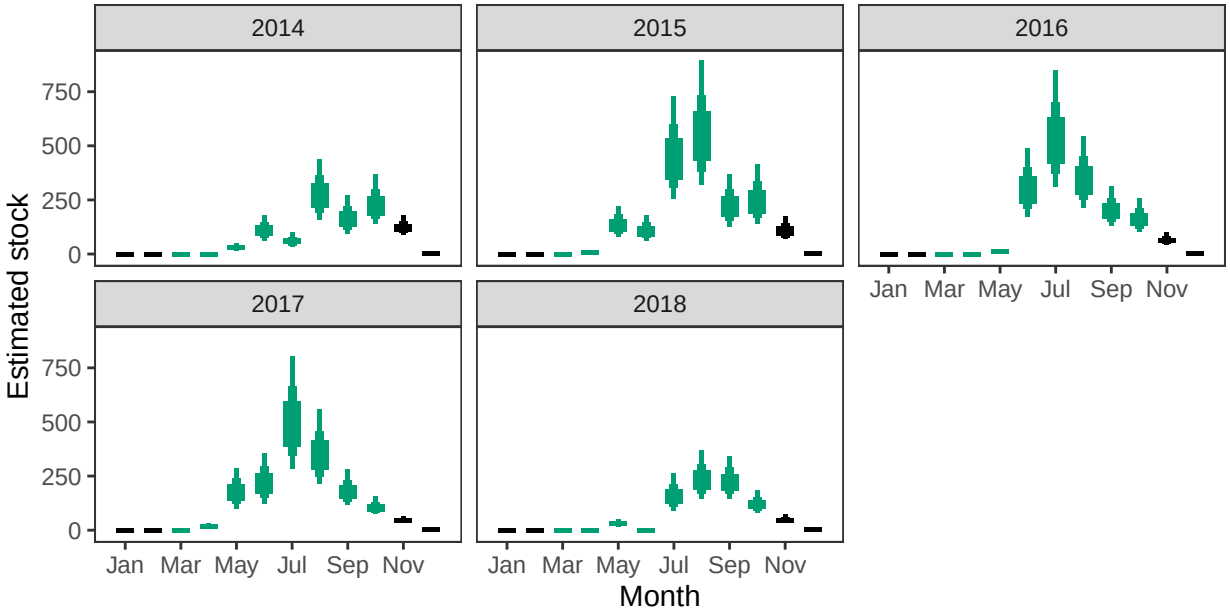
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

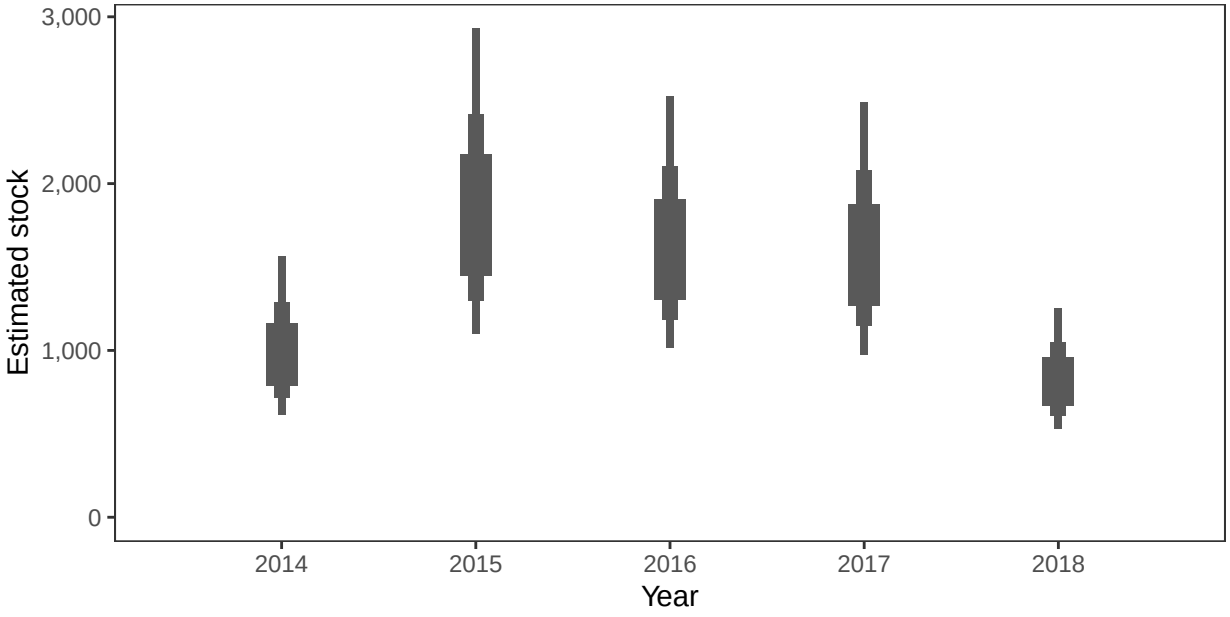


***Monthly stock estimates (out of season in black)***



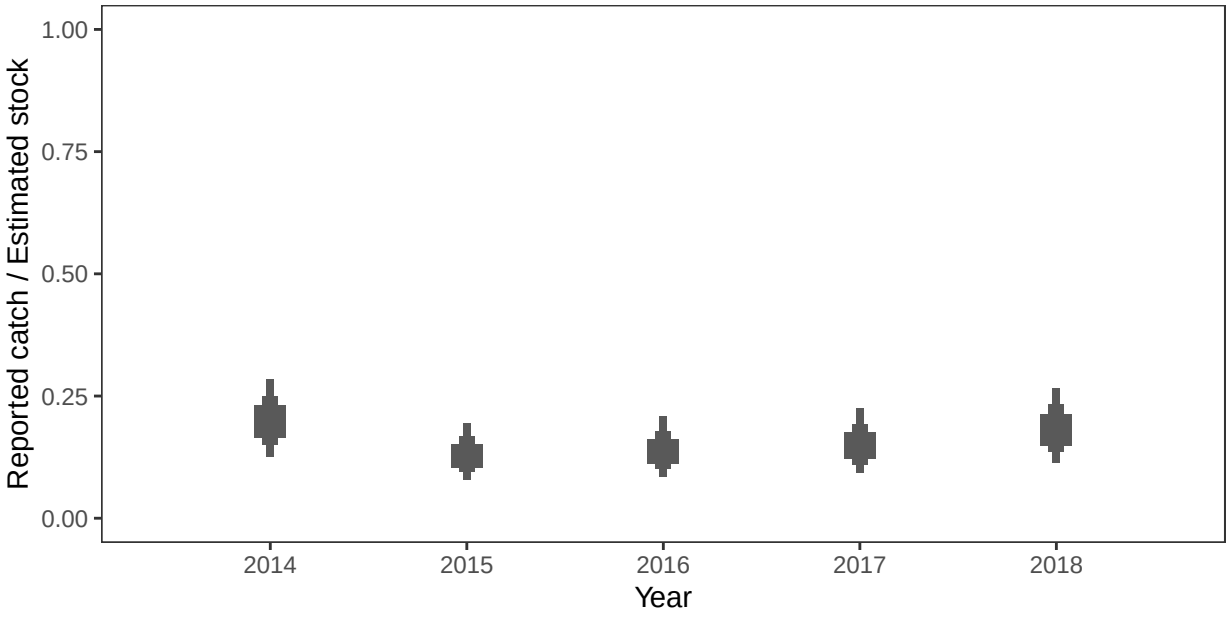

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

***Annual estimated stock***




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

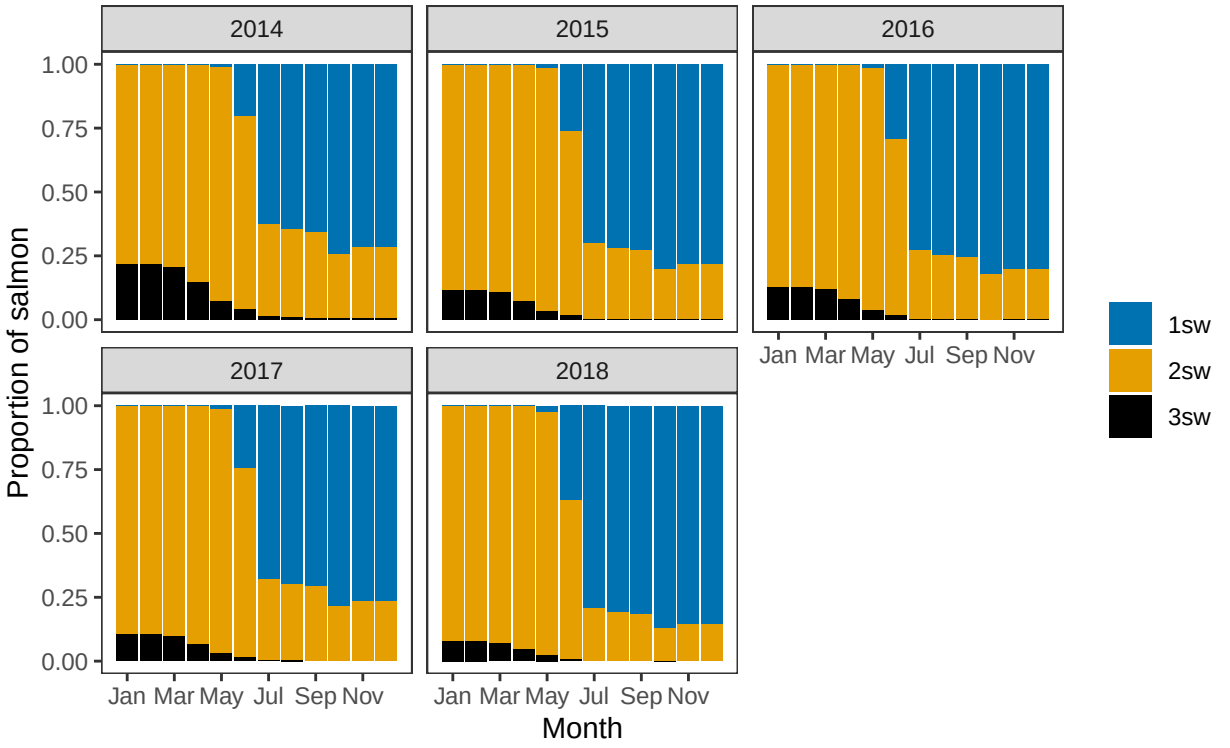
***Annual catch as a proportion of stock***



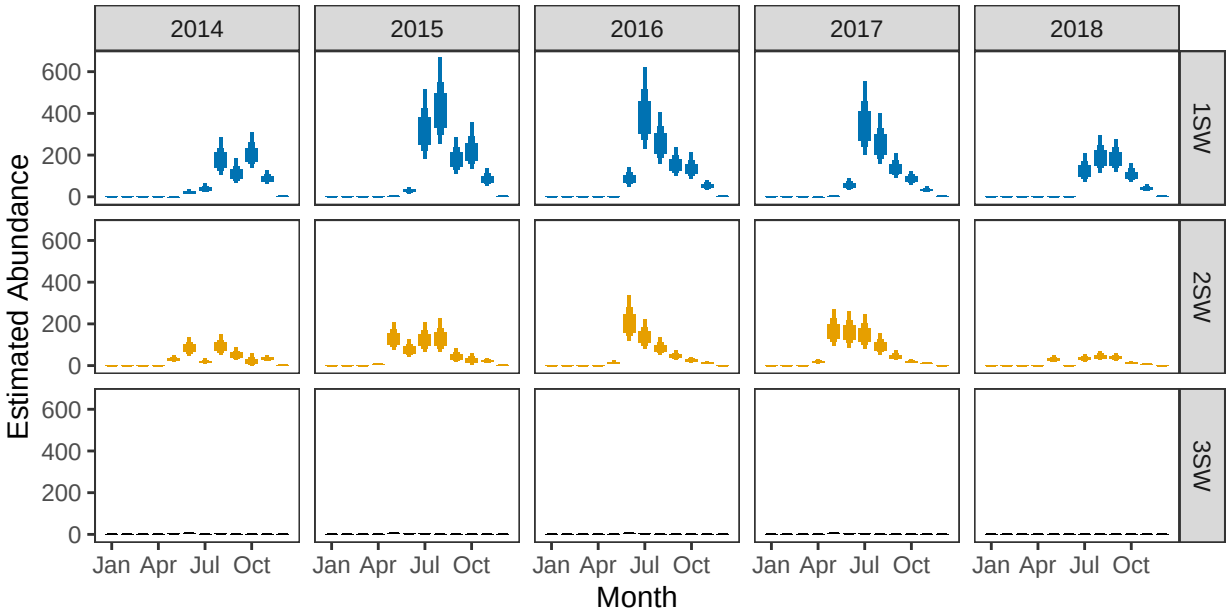

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



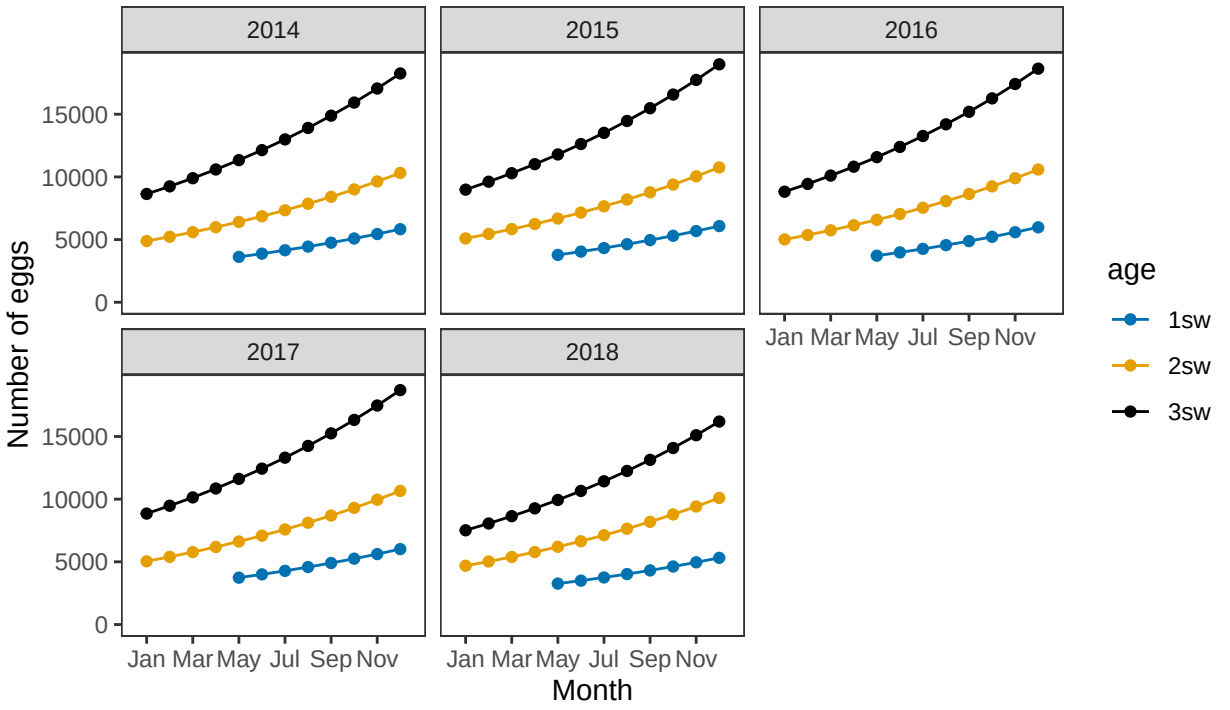
*Monthly number of spawning females*



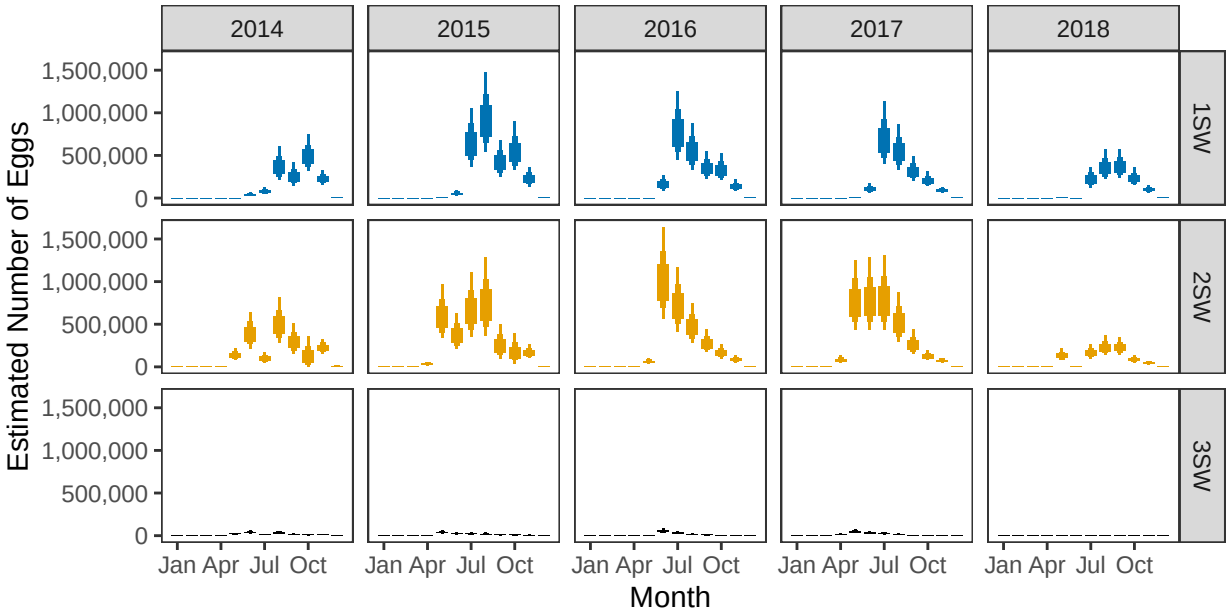

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

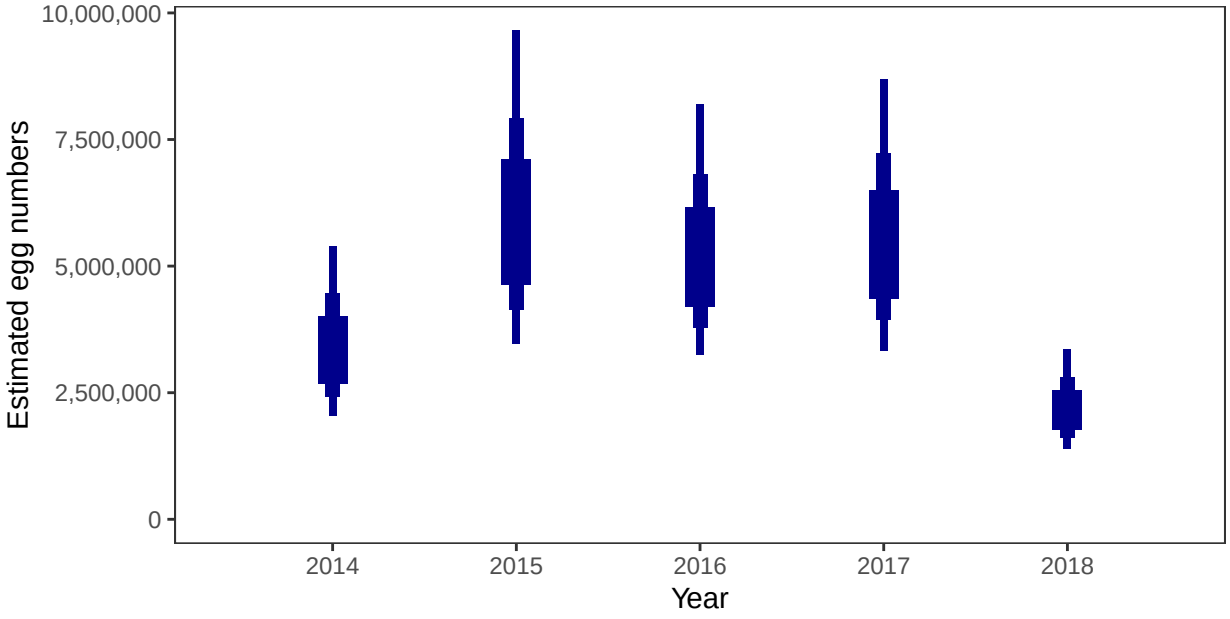


***Monthly number of eggs***




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

***Total annual egg numbers***



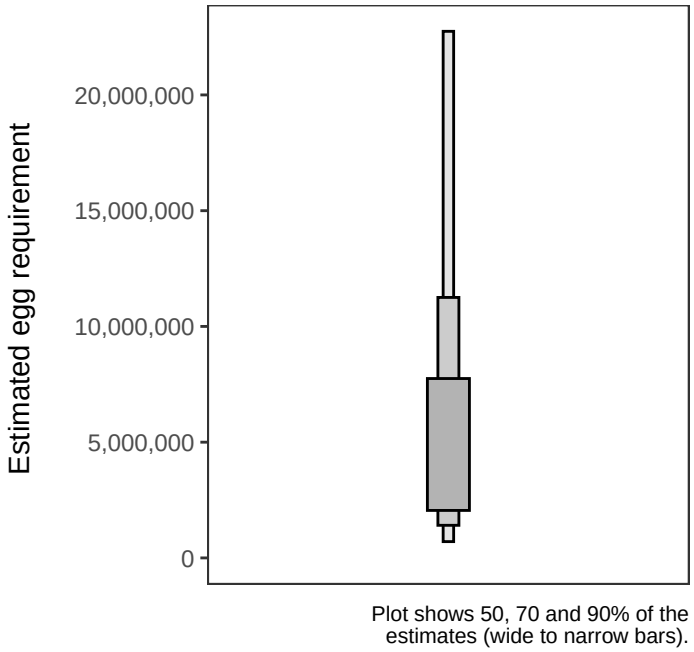

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

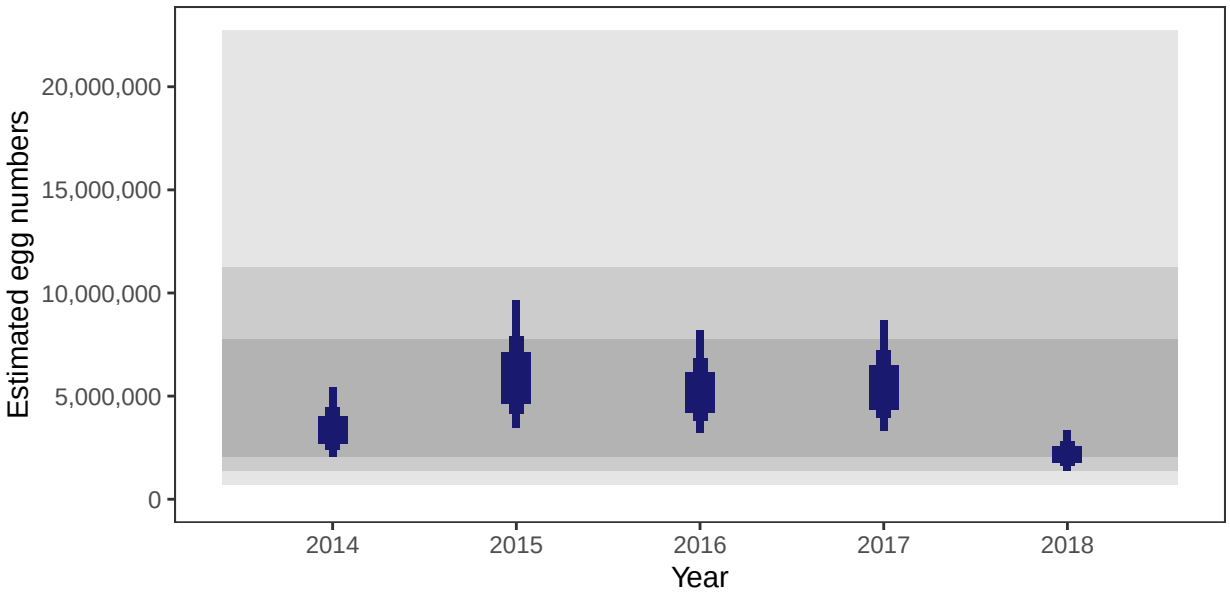
There is an estimated 2,482,214 square meters of known salmon habitat in the River Ayr and a further 123,101 square meters where salmon may be present.

***Egg requirement***



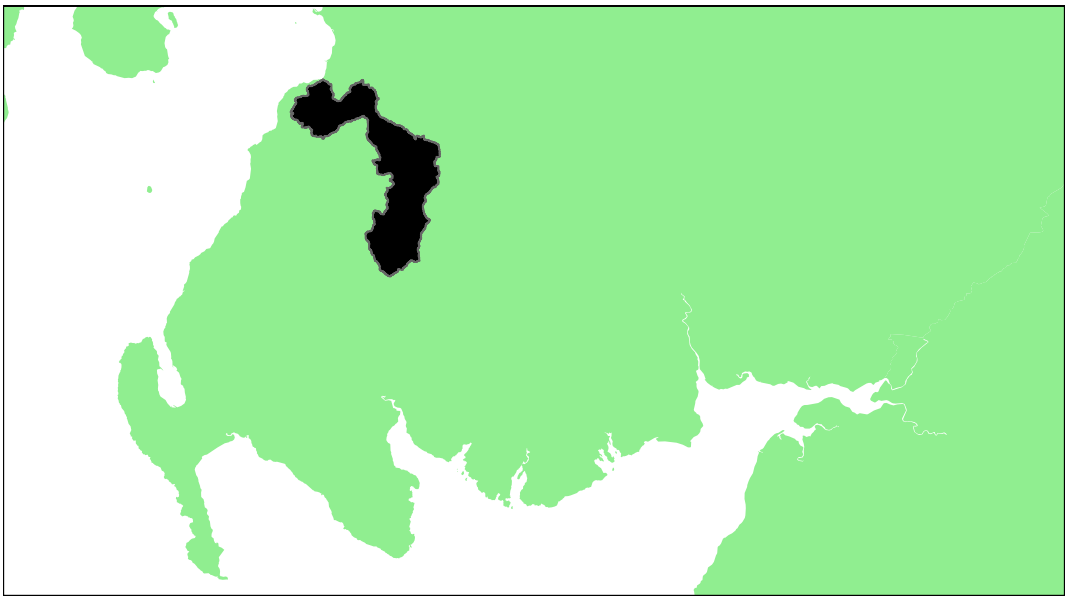

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 42.53 |
| 2015 | 63.68 |
| 2016 | 60.31 |
| 2017 | 61.27 |
| 2018 | 26.42 |




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 Doon: Grade 2



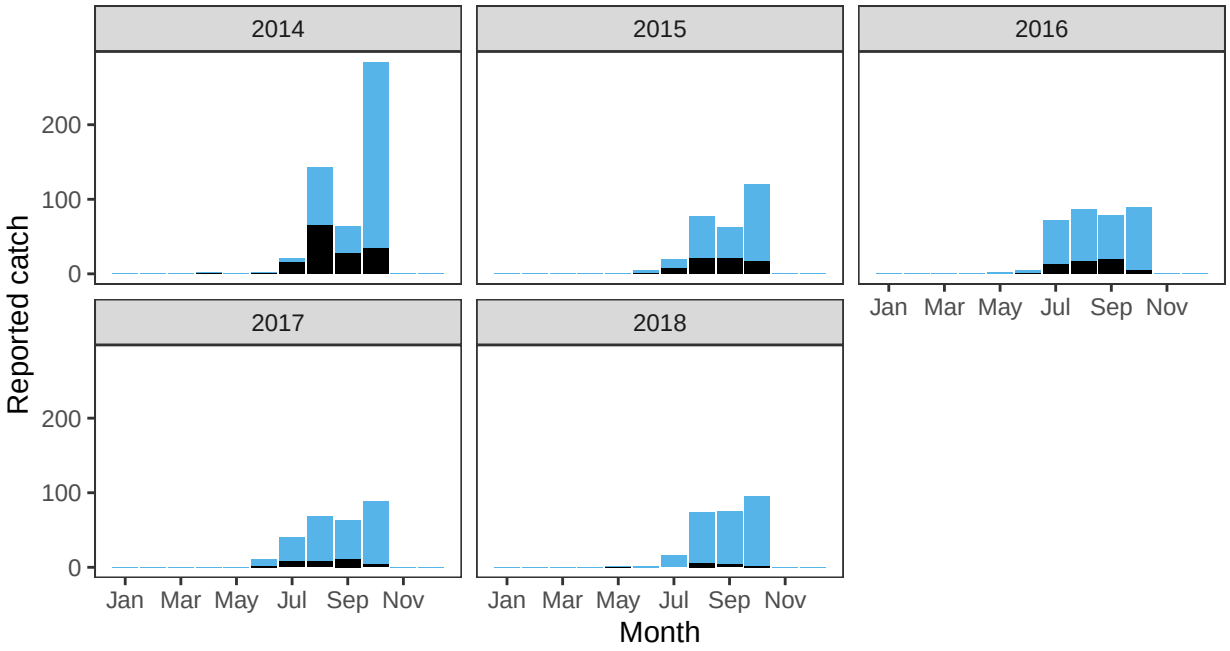
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 2.65 | 983,400 | 2,608,294 | 82.38 | 68.24 | 74.97 | 65.47 | 57.66 | 69.74 | 2 |

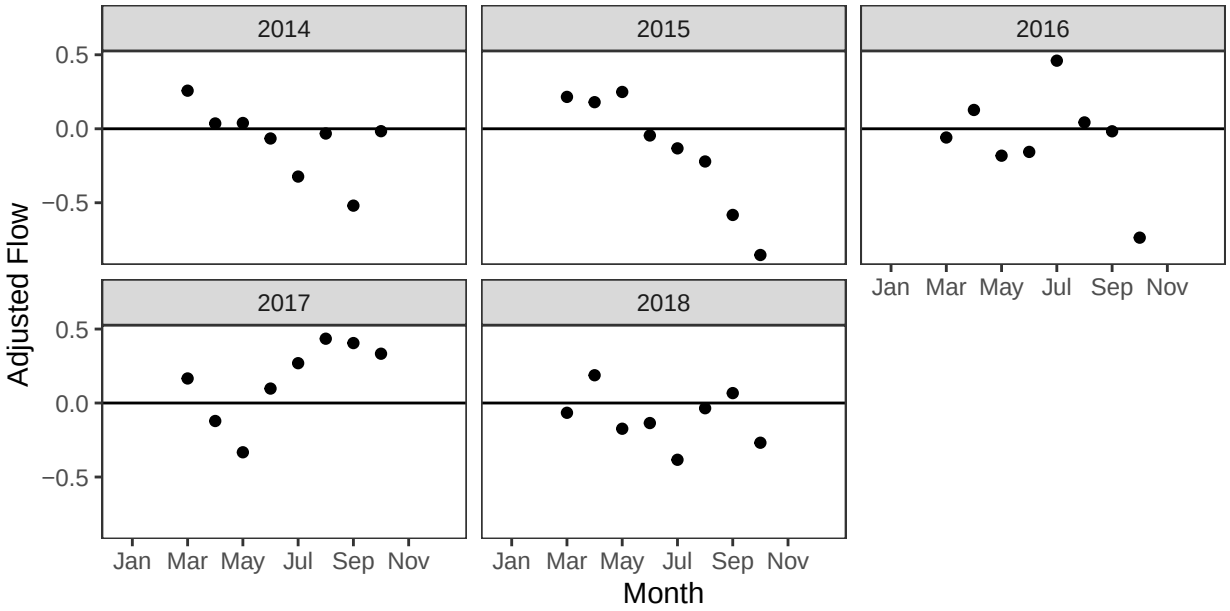
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

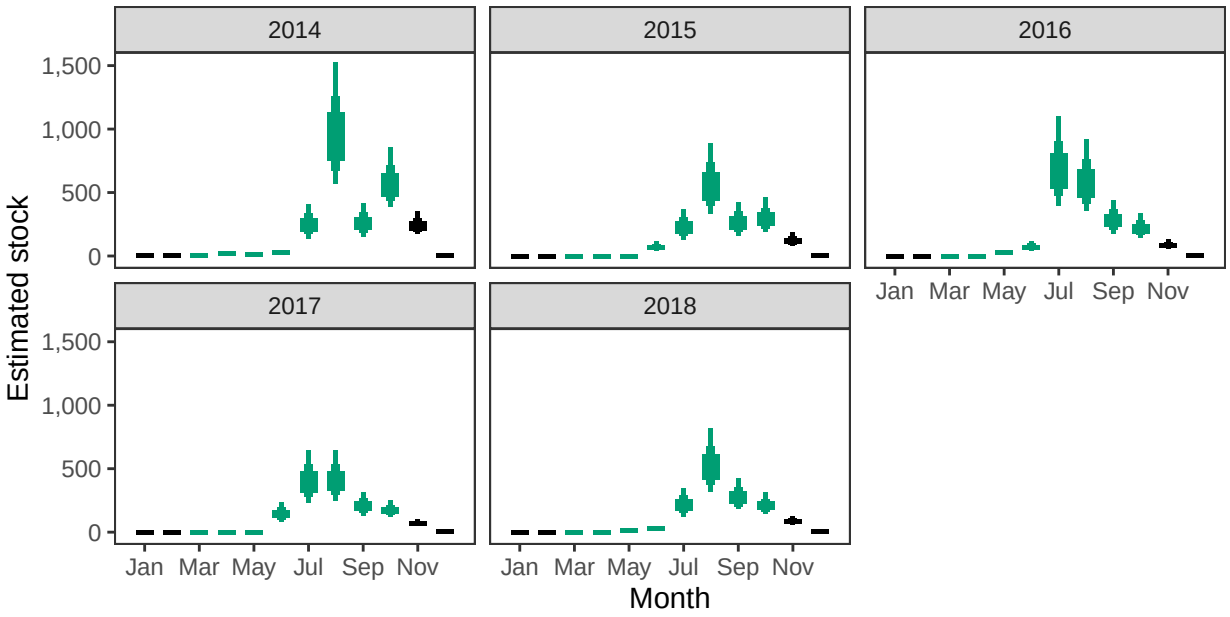
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

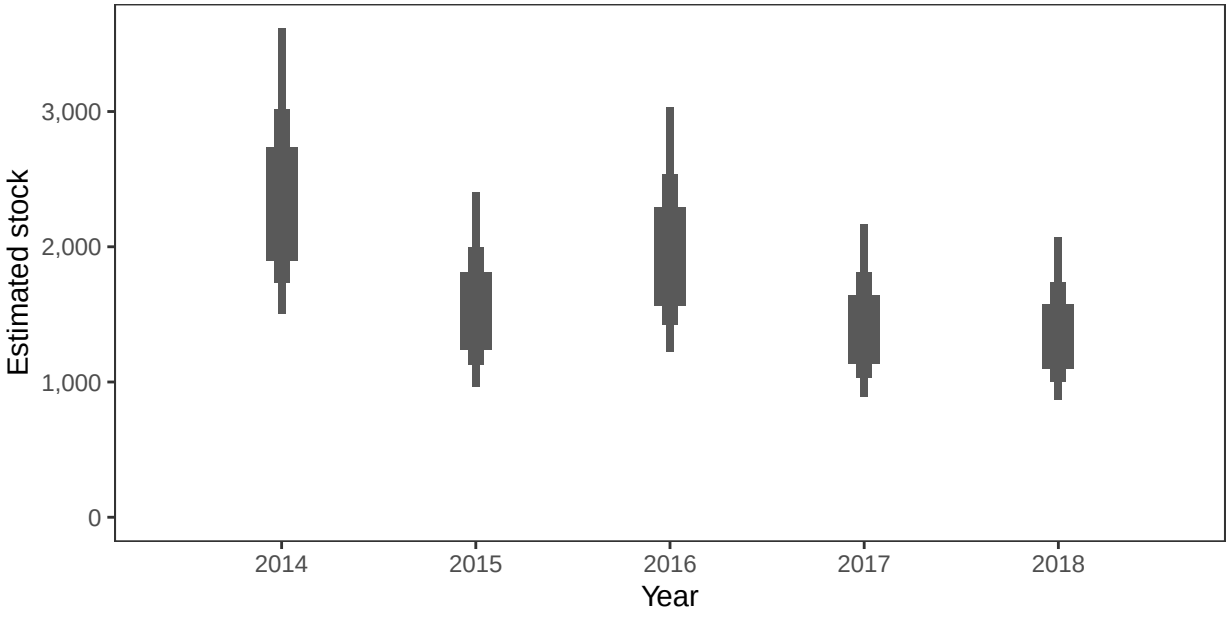


*Monthly stock estimates (out of season in black)*



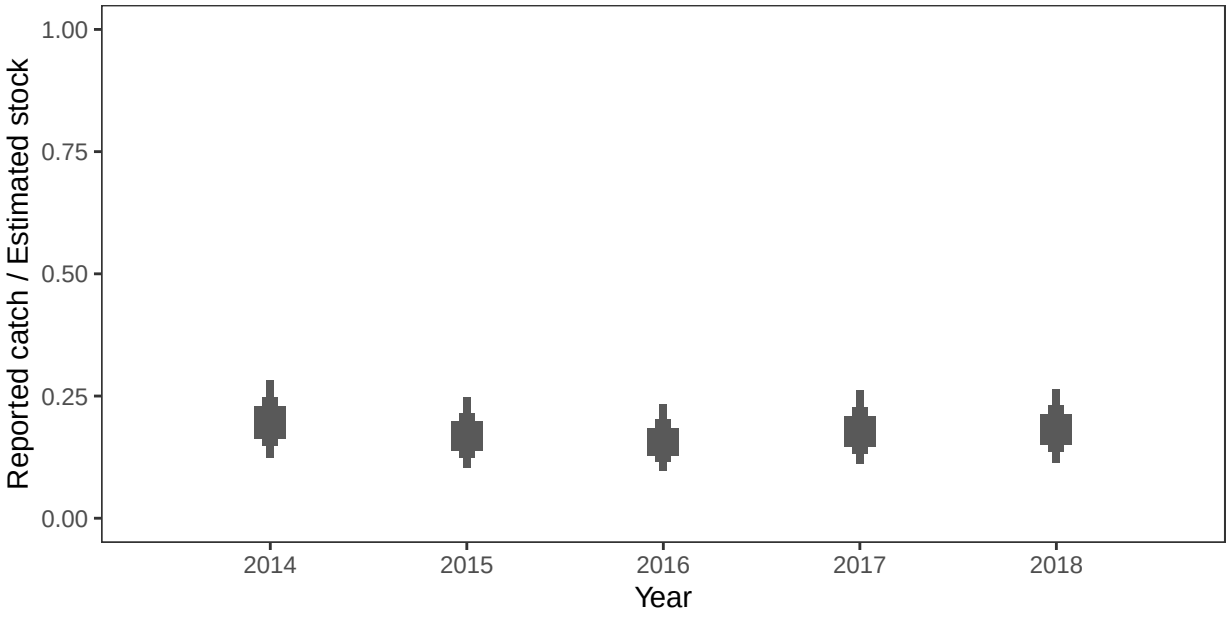

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

*Annual estimated stock*




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

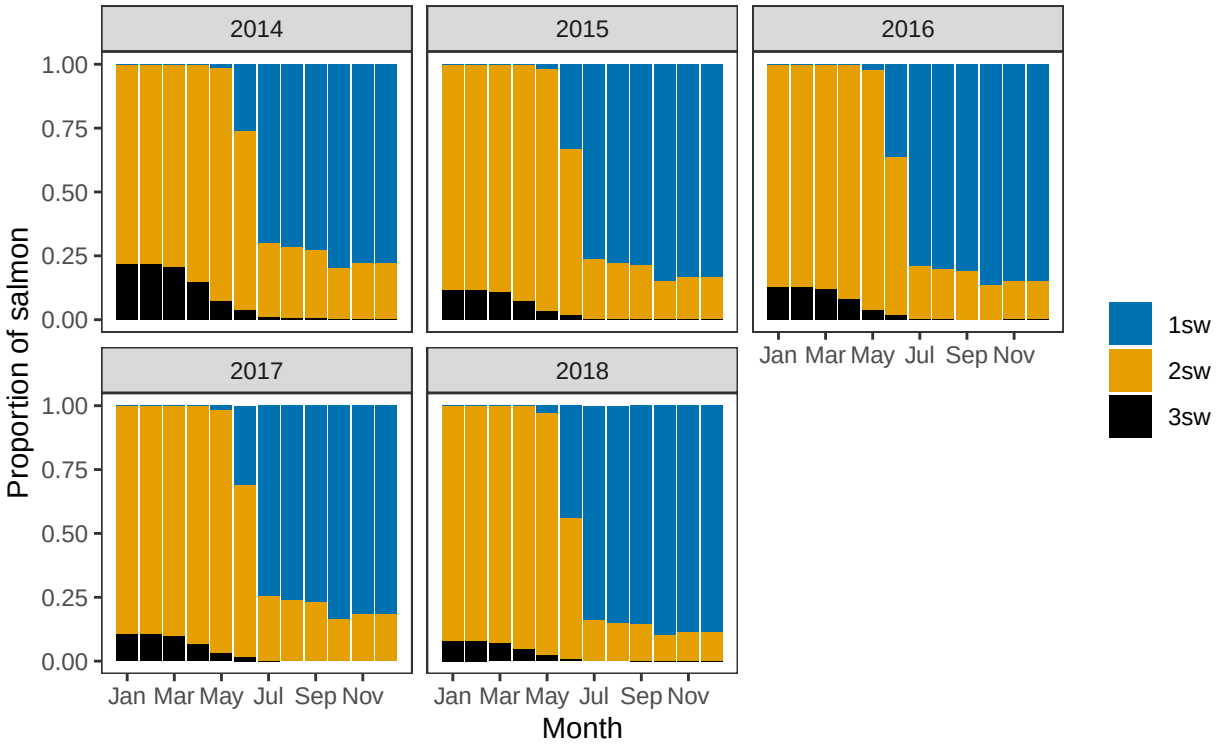
***Annual catch as a proportion of stock***



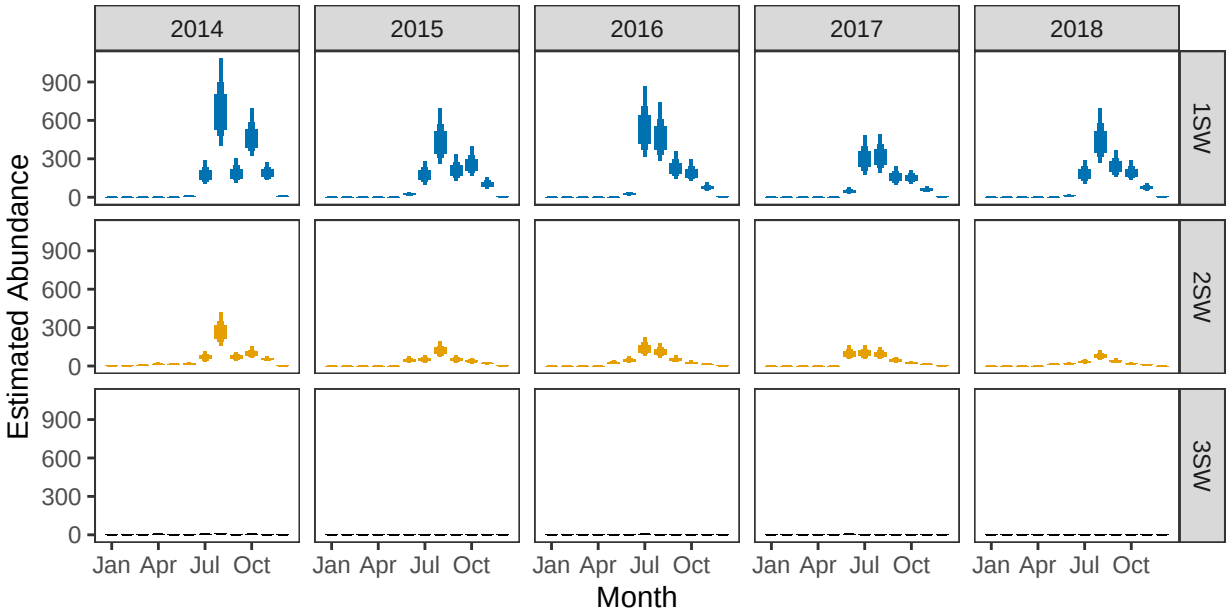

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



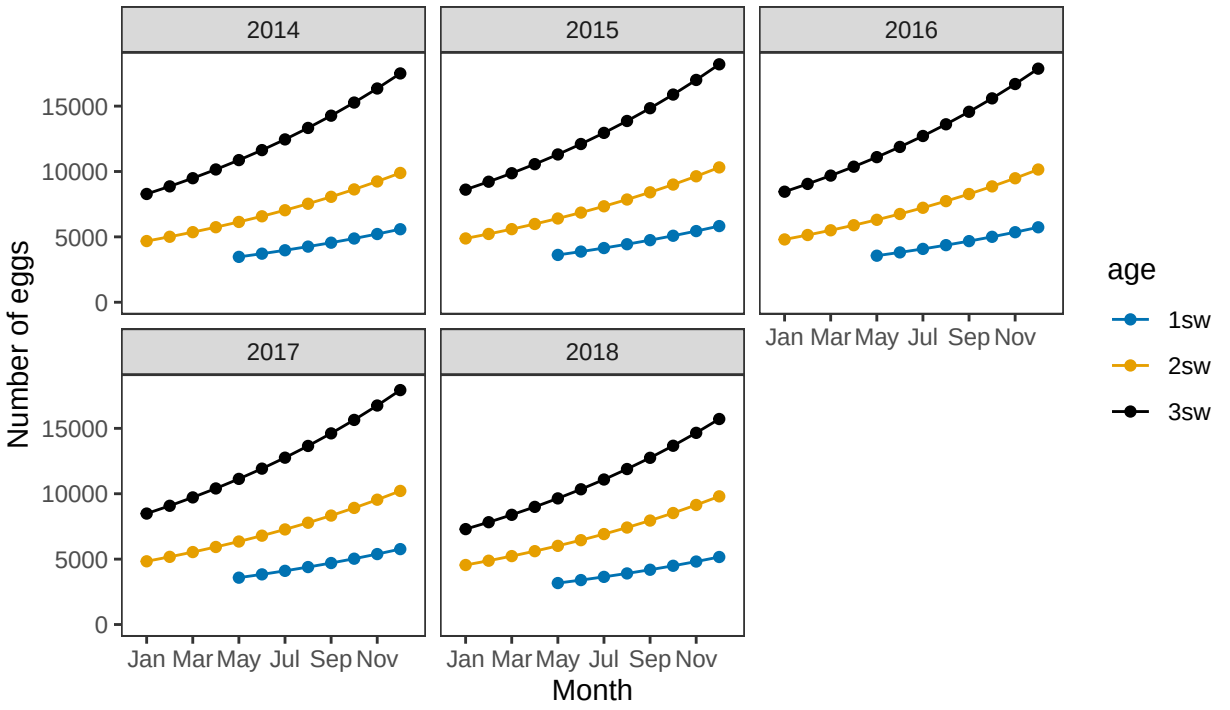
*Monthly number of spawning females*



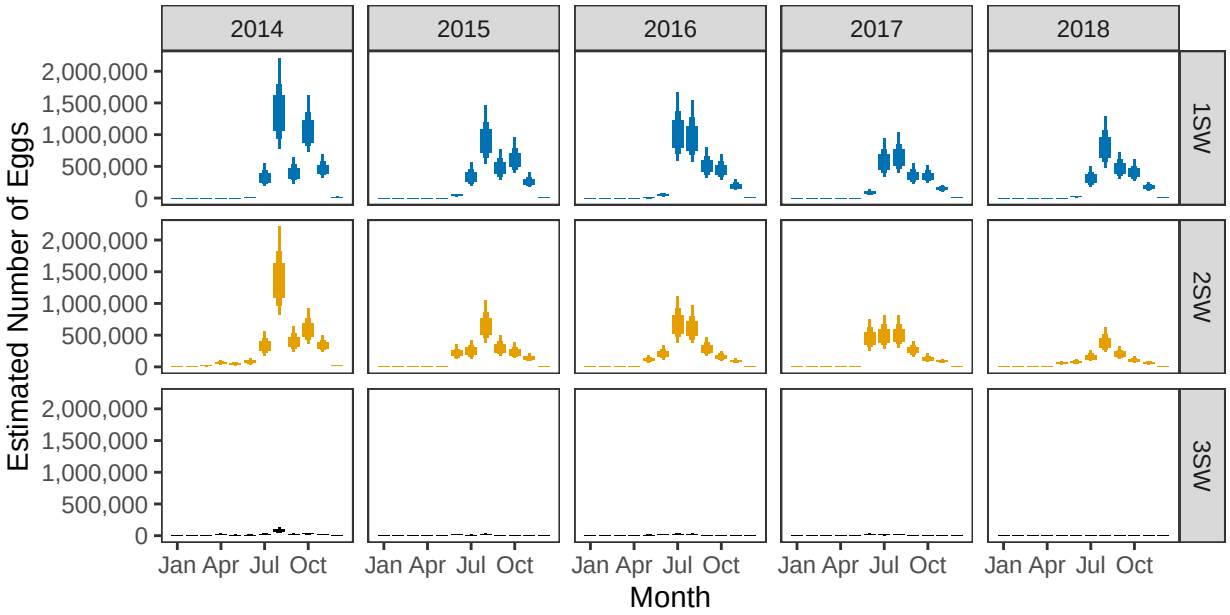

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

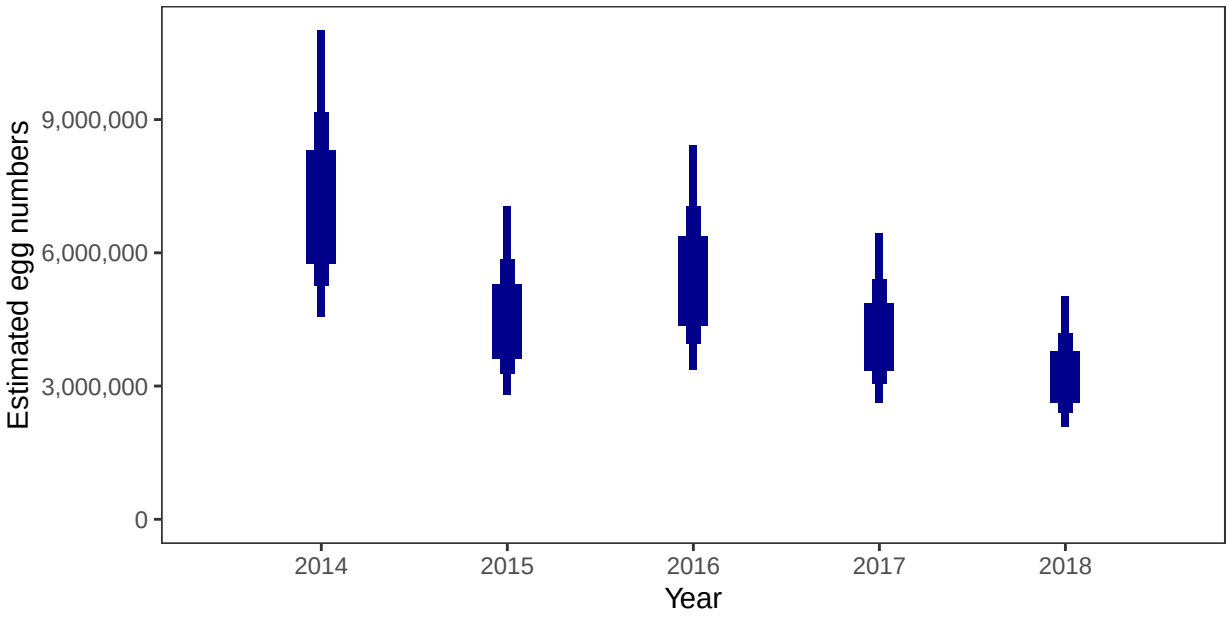


***Monthly number of eggs***




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

***Total annual egg numbers***



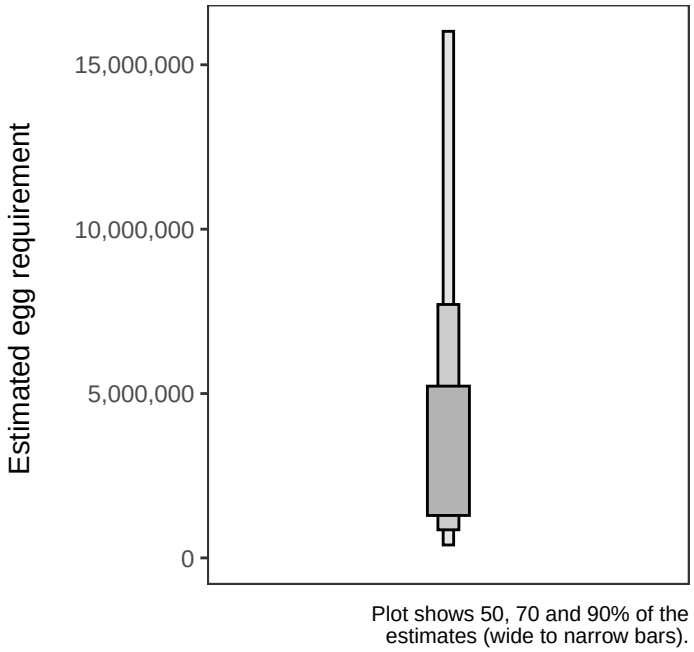

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

***Areas of salmon habitat in square meters***

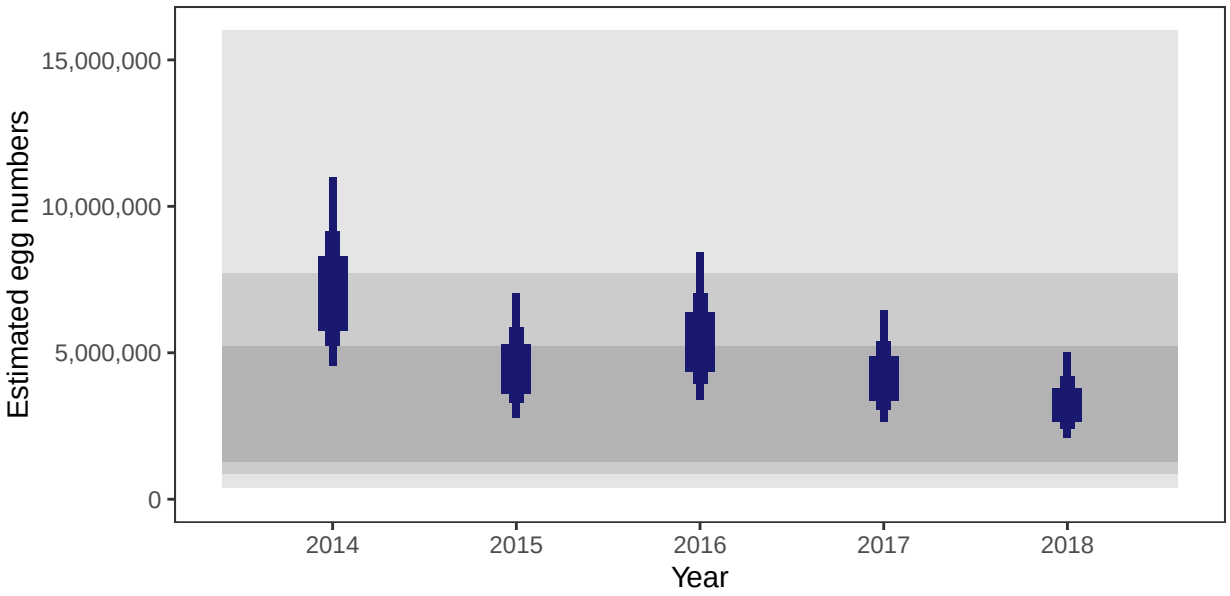
There is an estimated 900,307 square meters of known salmon habitat in the River Doon and a further 217,137 square meters where salmon may be present.

***Egg requirement***



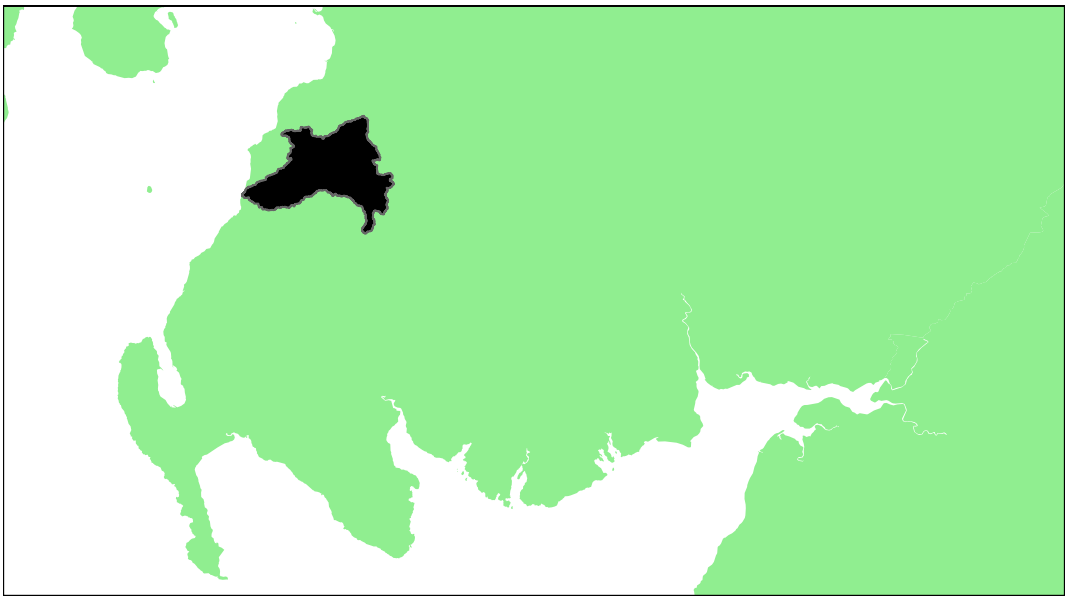

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 82.38 |
| 2015 | 68.24 |
| 2016 | 74.97 |
| 2017 | 65.47 |
| 2018 | 57.66 |




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)

## Water of Girvan: Grade 3



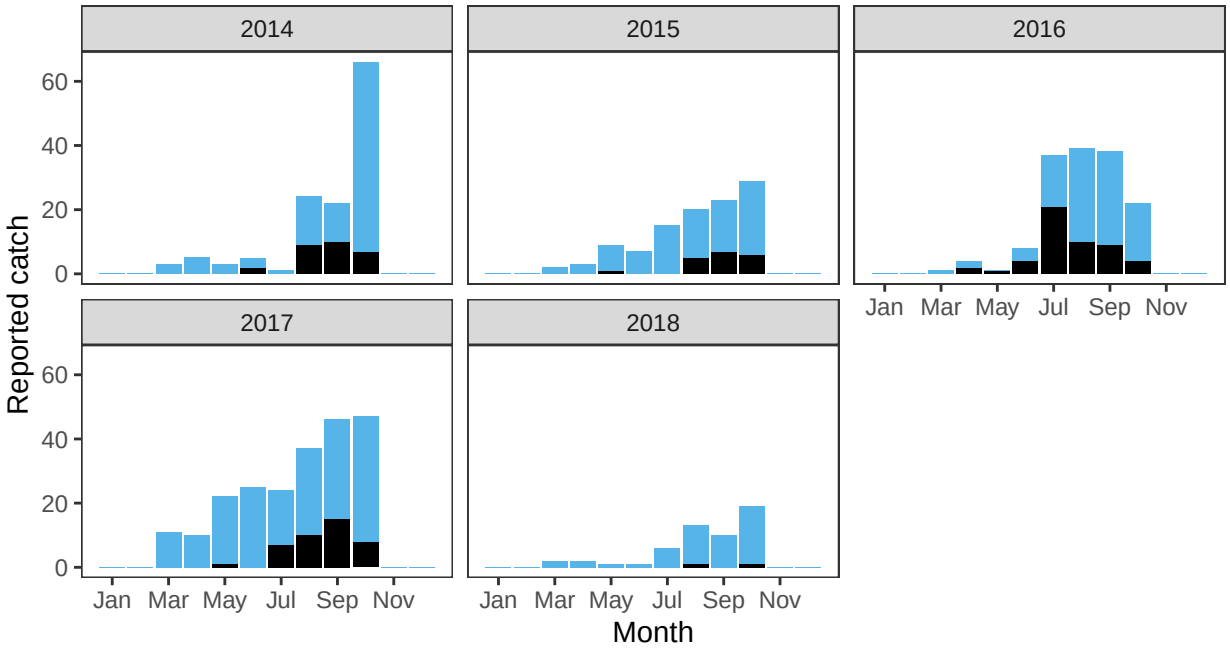
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 2.22 | 833,700 | 1,854,786 | 51.4 | 57.89 | 60.57 | 80.7 | 23.01 | 54.71 | 3 |

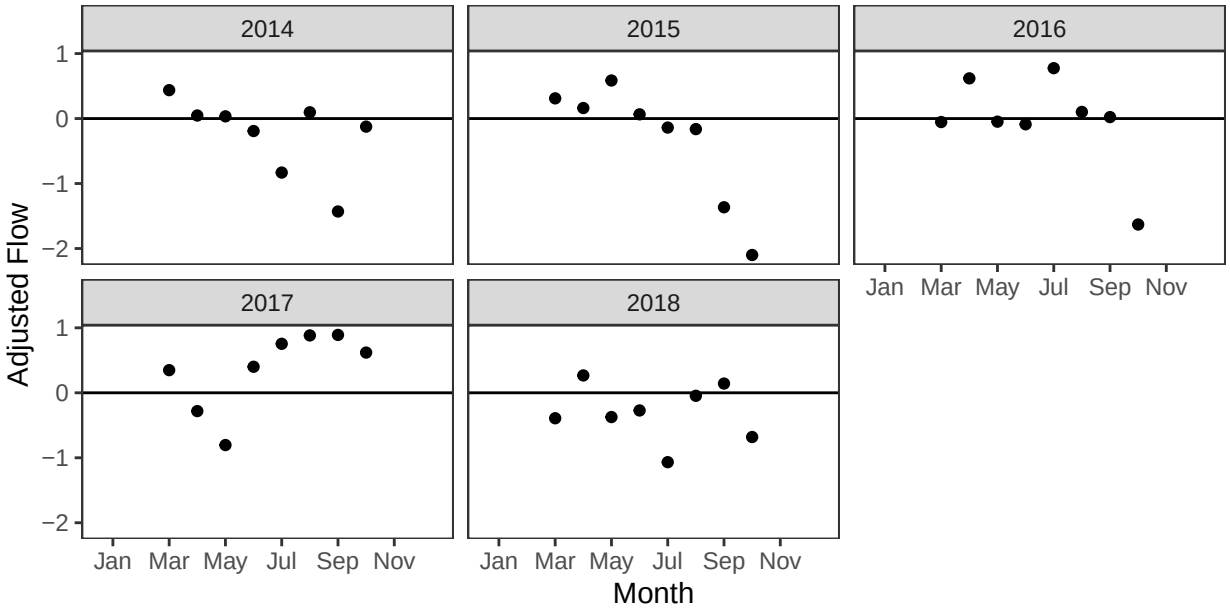
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

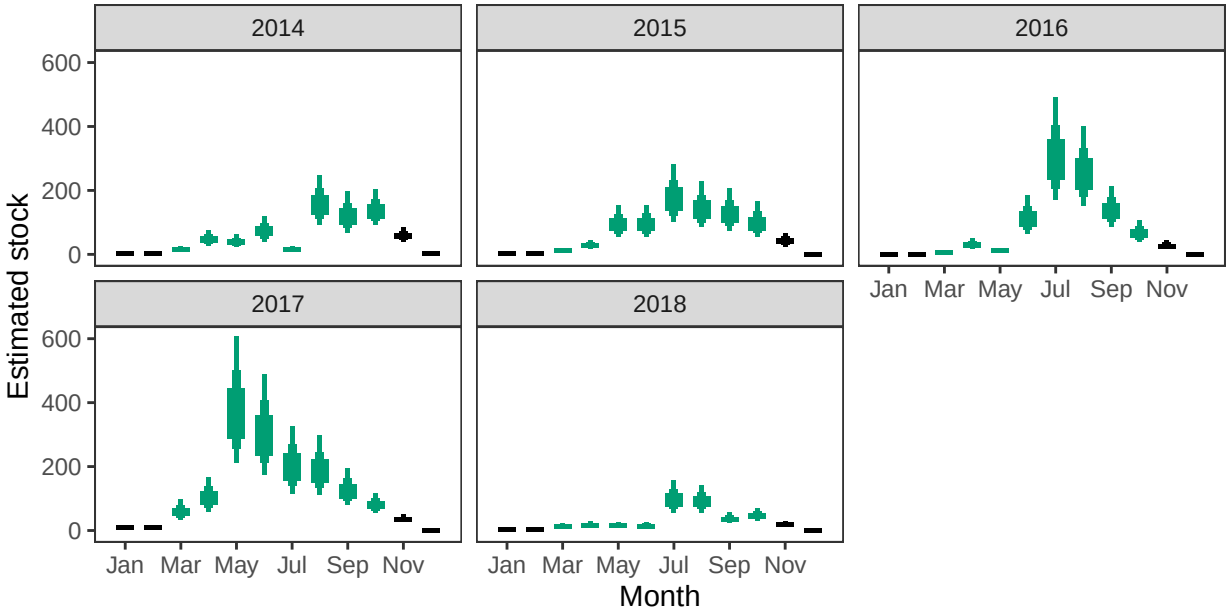
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

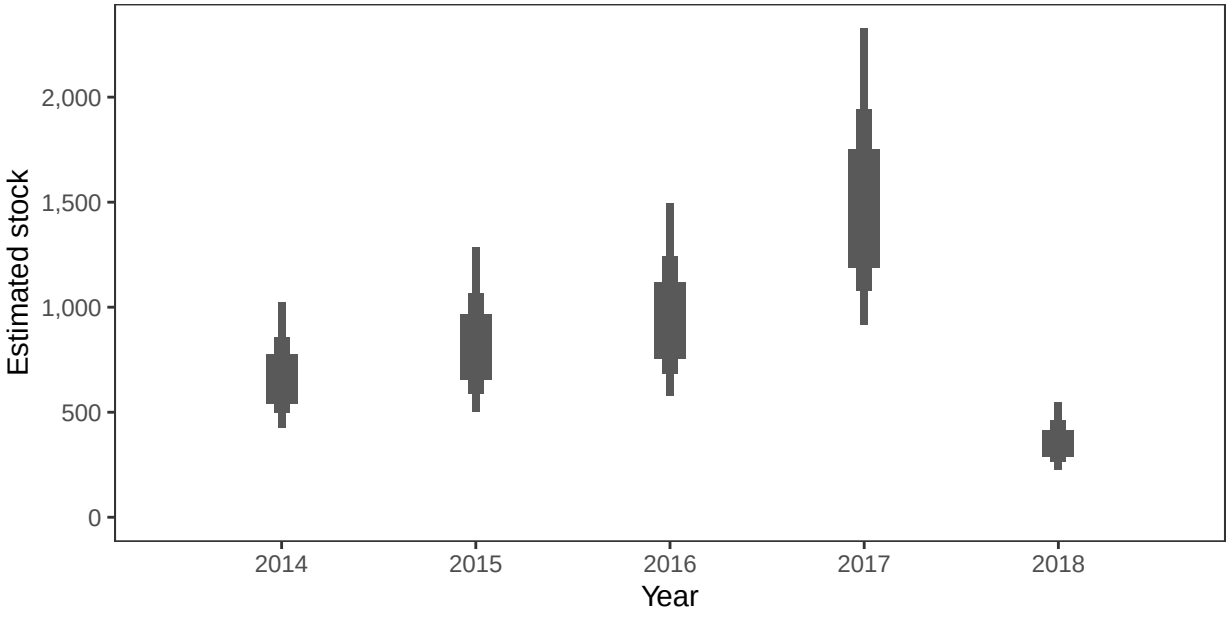


***Monthly stock estimates (out of season in black)***



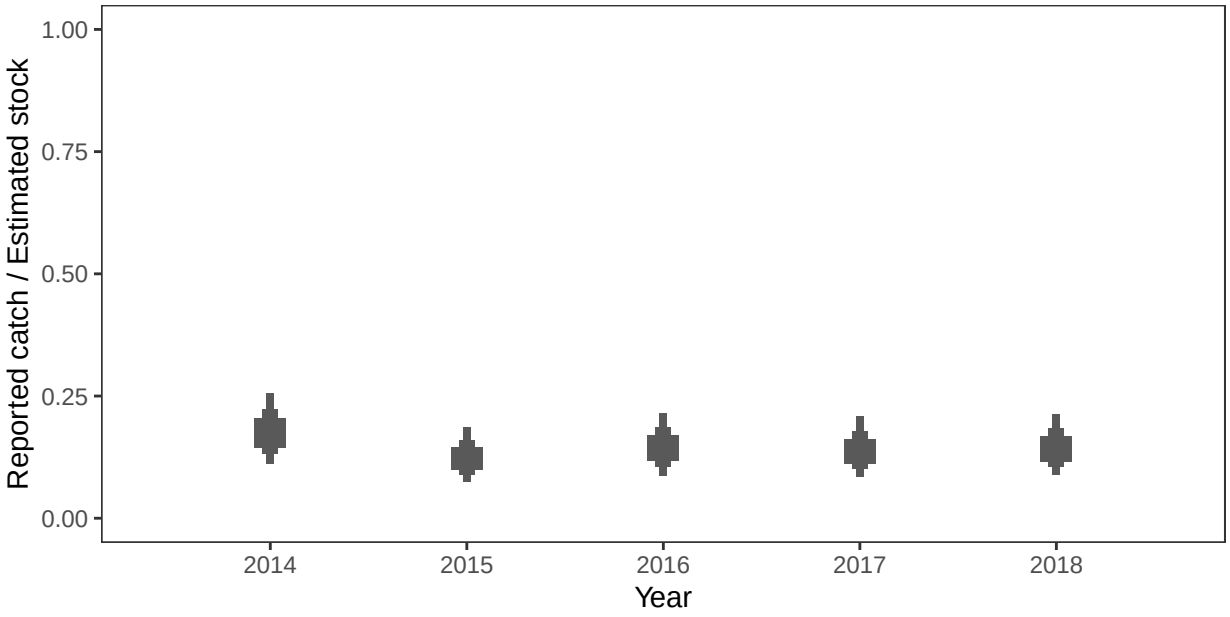

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

***Annual estimated stock***




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

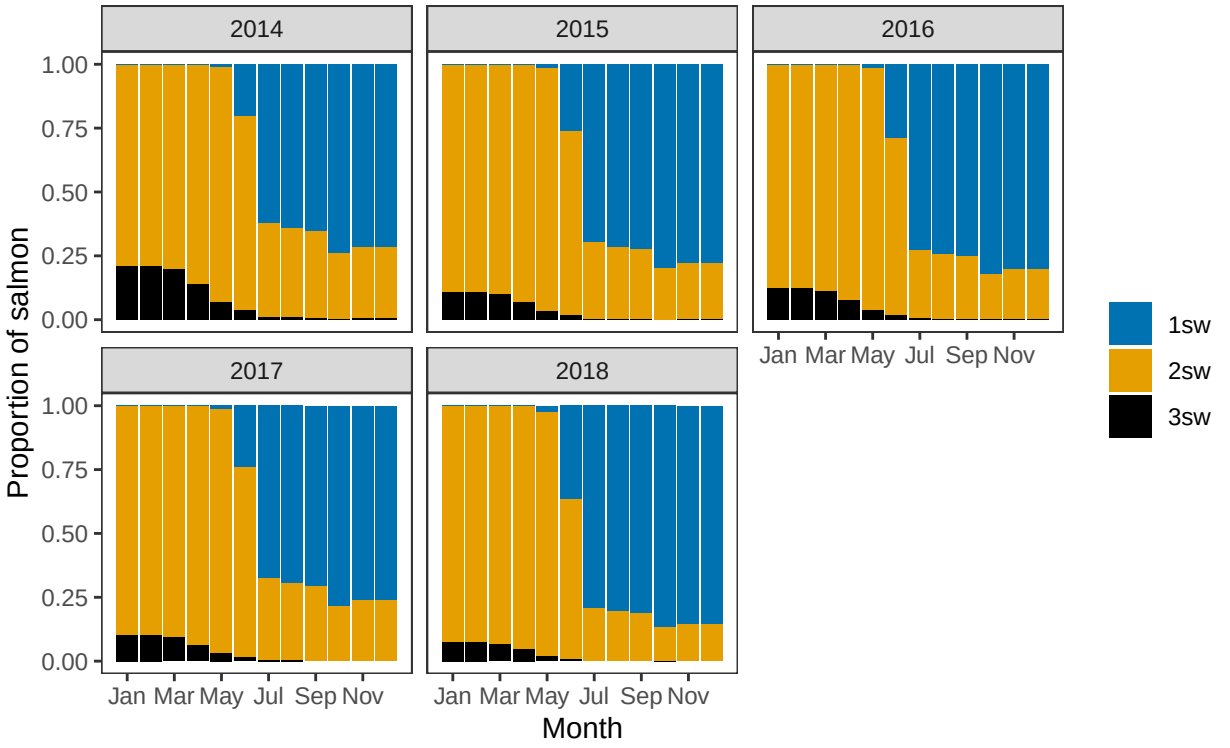
***Annual catch as a proportion of stock***



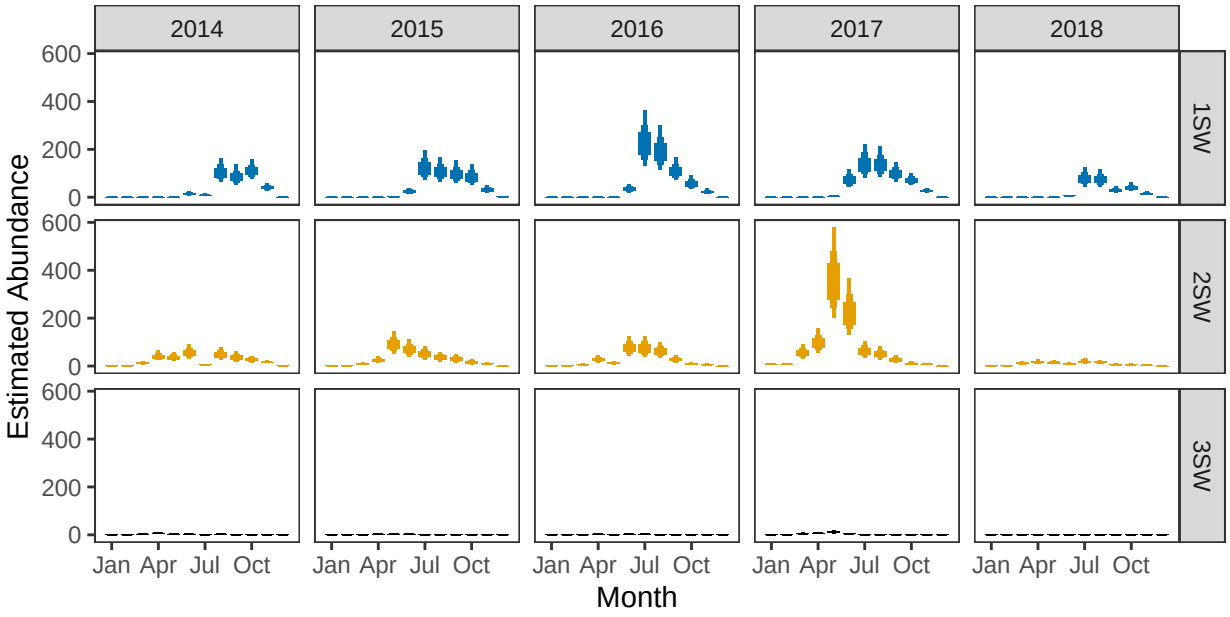

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



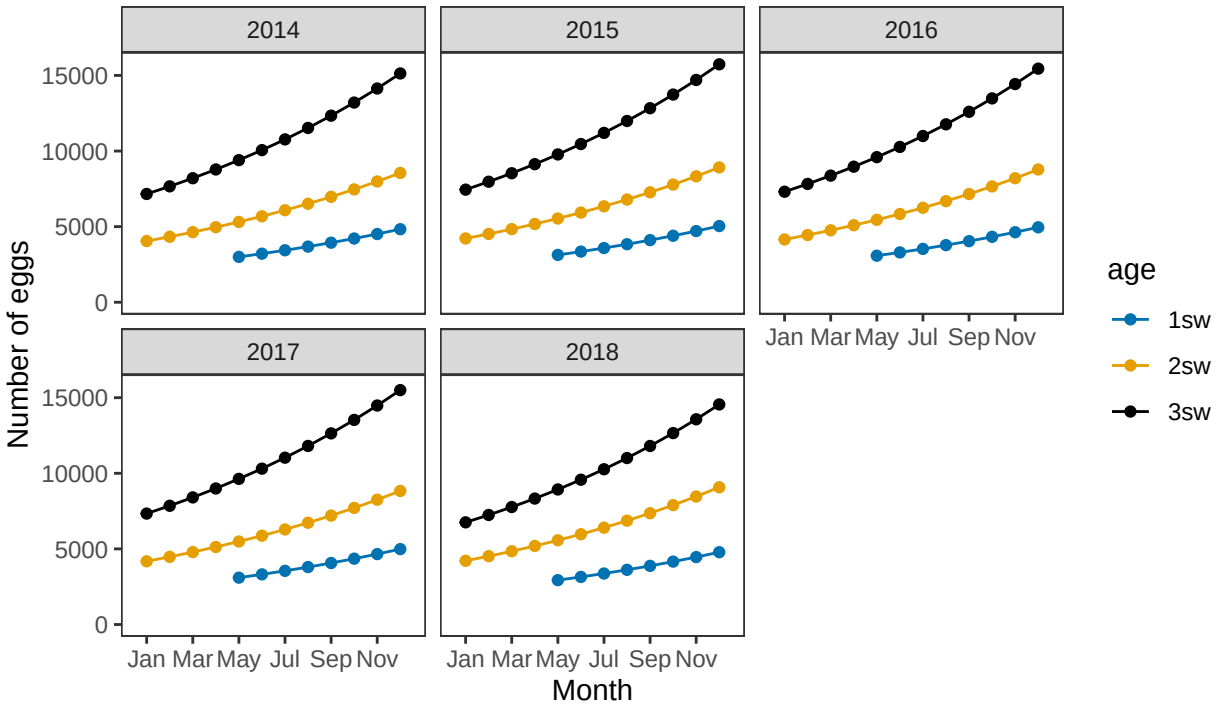
*Monthly number of spawning females*



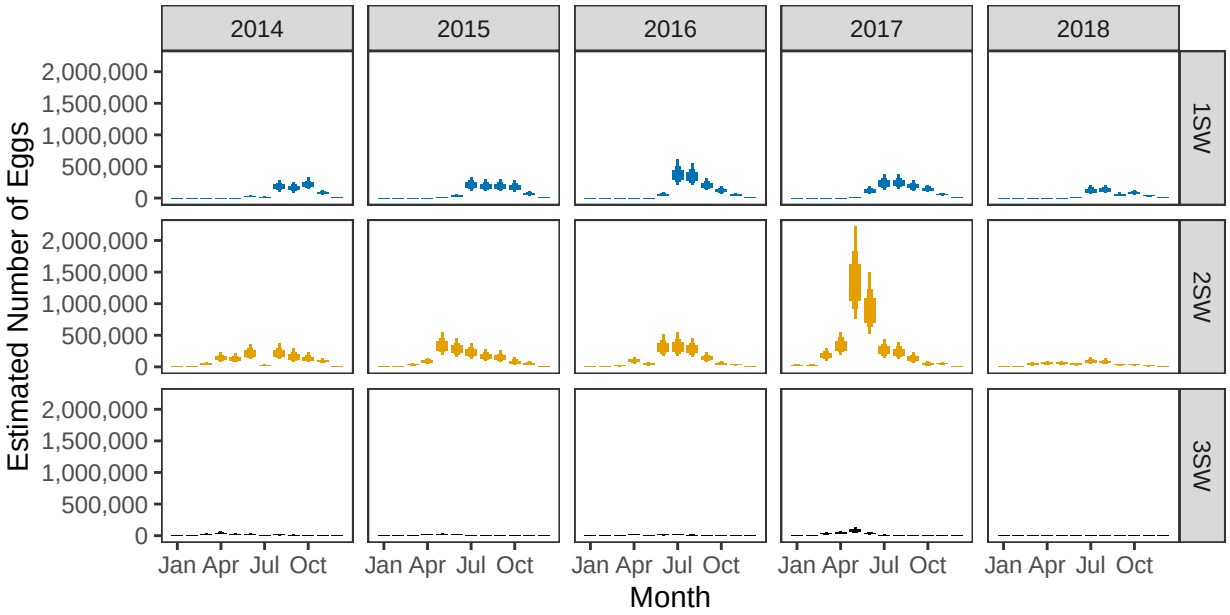

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

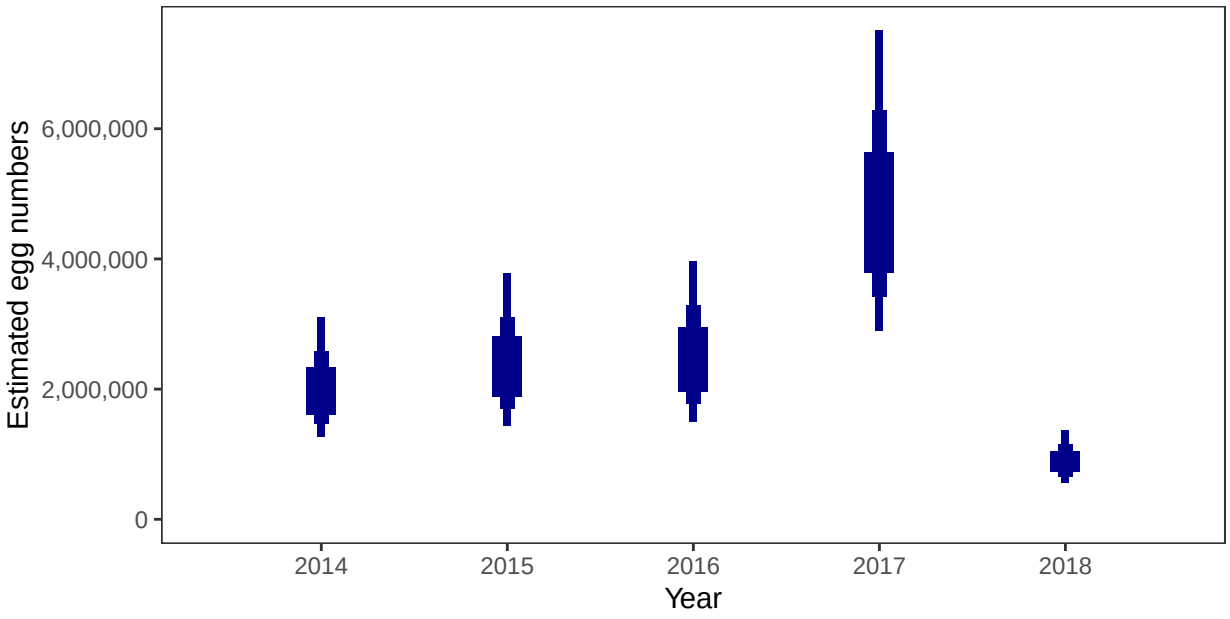


***Monthly number of eggs***




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

***Total annual egg numbers***



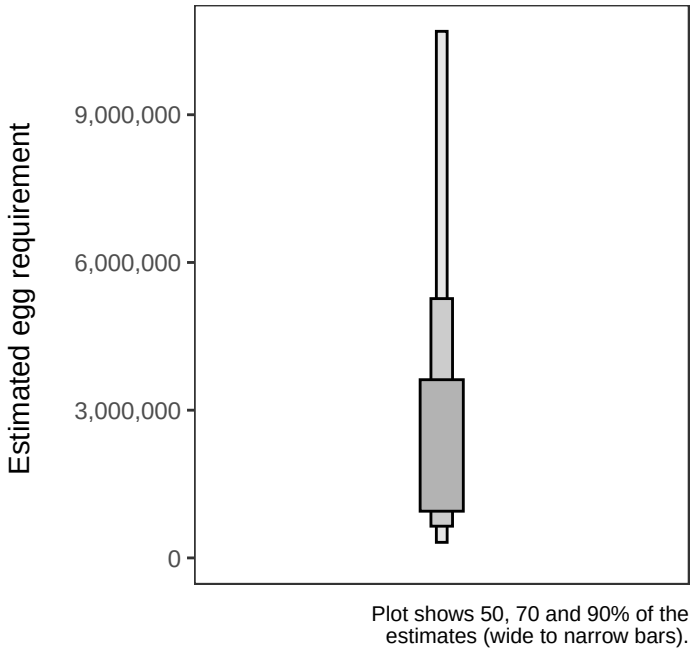

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

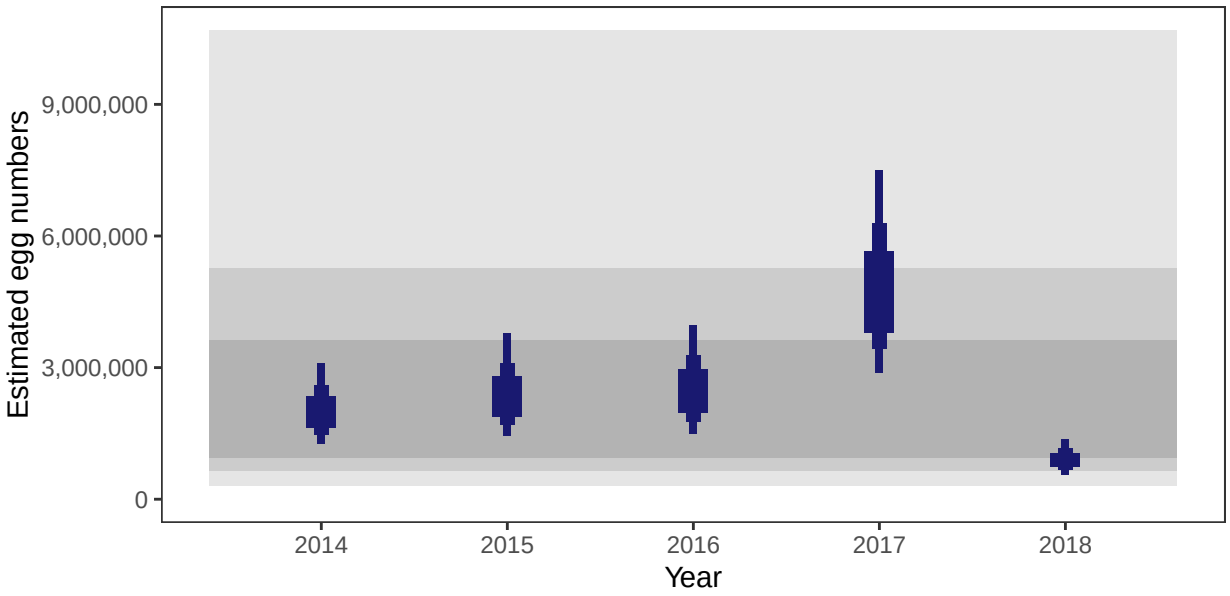
There is an estimated 861,420 square meters of known salmon habitat in the Water of Girvan and a further 85,973 square meters where salmon may be present.

### *Egg requirement*



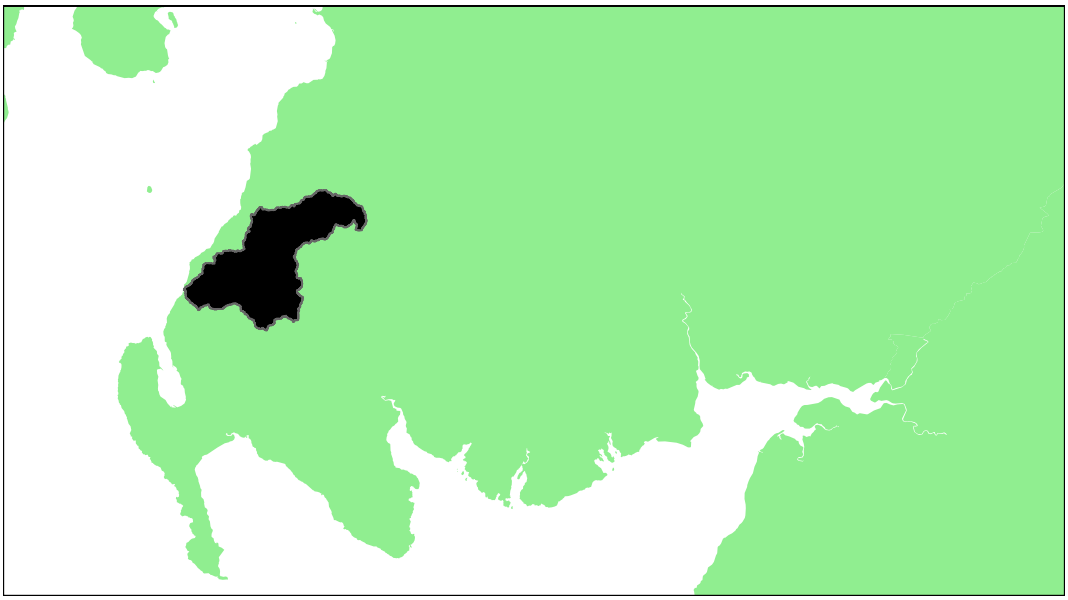

## 5. Percentage chance that the egg requirement has been reached

| Year | Percentage above |
|---|---|
| 2014 | 51.40 |
| 2015 | 57.89 |
| 2016 | 60.57 |
| 2017 | 80.70 |
| 2018 | 23.01 |




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 Stinchar: Grade 2



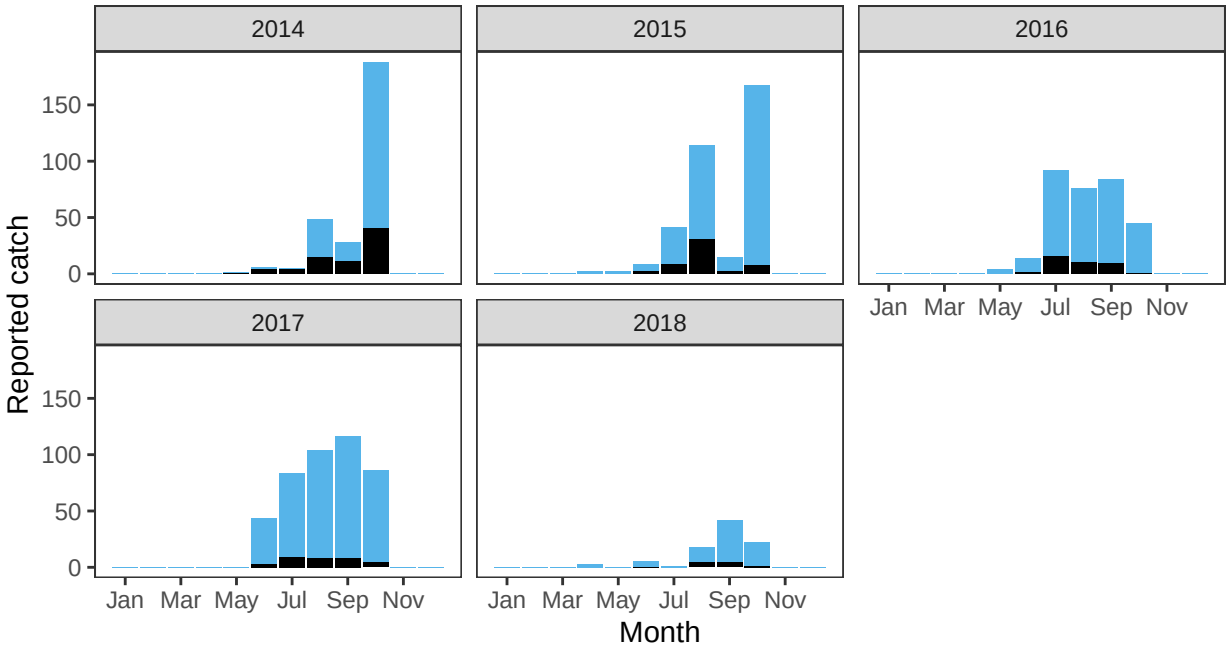
***Summary Table***

| Eggs required ($m^2$)[a] | Area ($m^2$)[a] | Total egg requirement[a] | Percentage chance meeting requirement | | | | | | Grade |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 | 2017 | 2018 | Overall | |
| 2.51 | 1,061,600 | 2,662,546 | 69.7 | 82.58 | 82.53 | 85.02 | 26.73 | 69.31 | 2 |

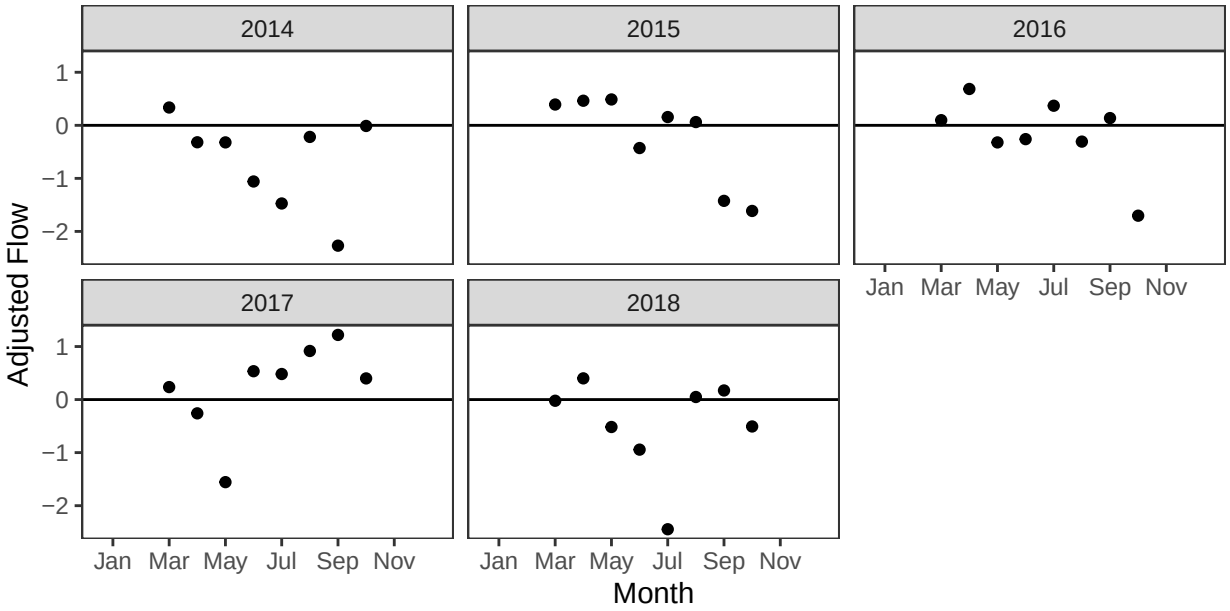
[a] Figures presented are median values

## 1. Converting Reported Catches to Numbers of Returning Salmon

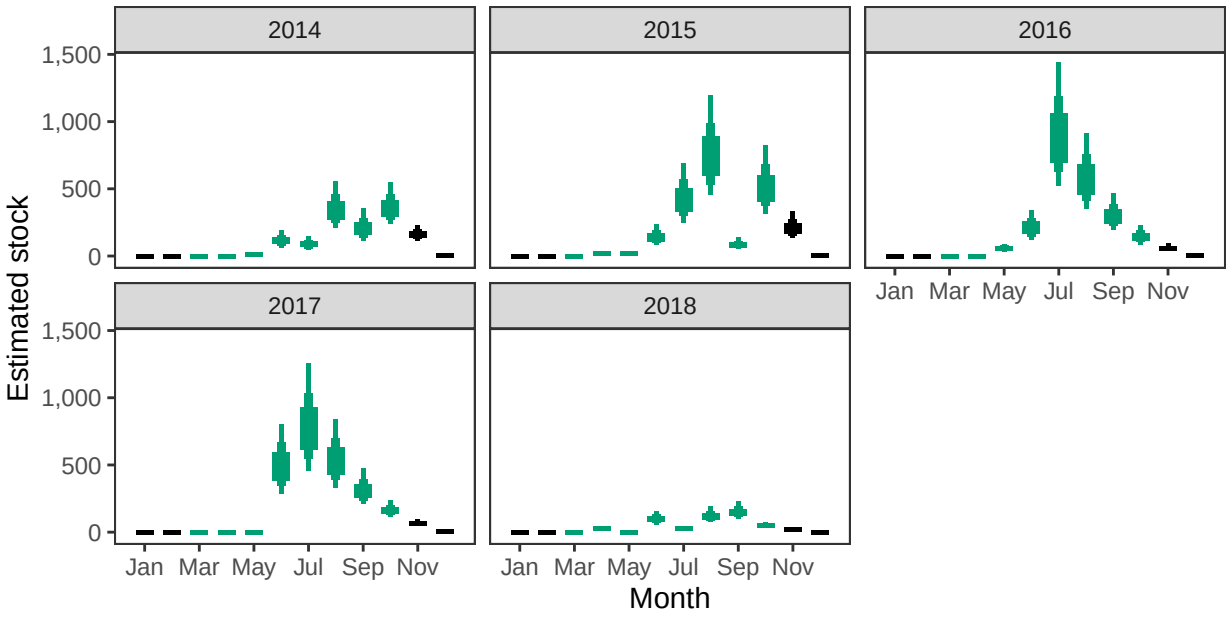
***Reported Catches (black = retained, blue = released)***




***Monthly flow data***

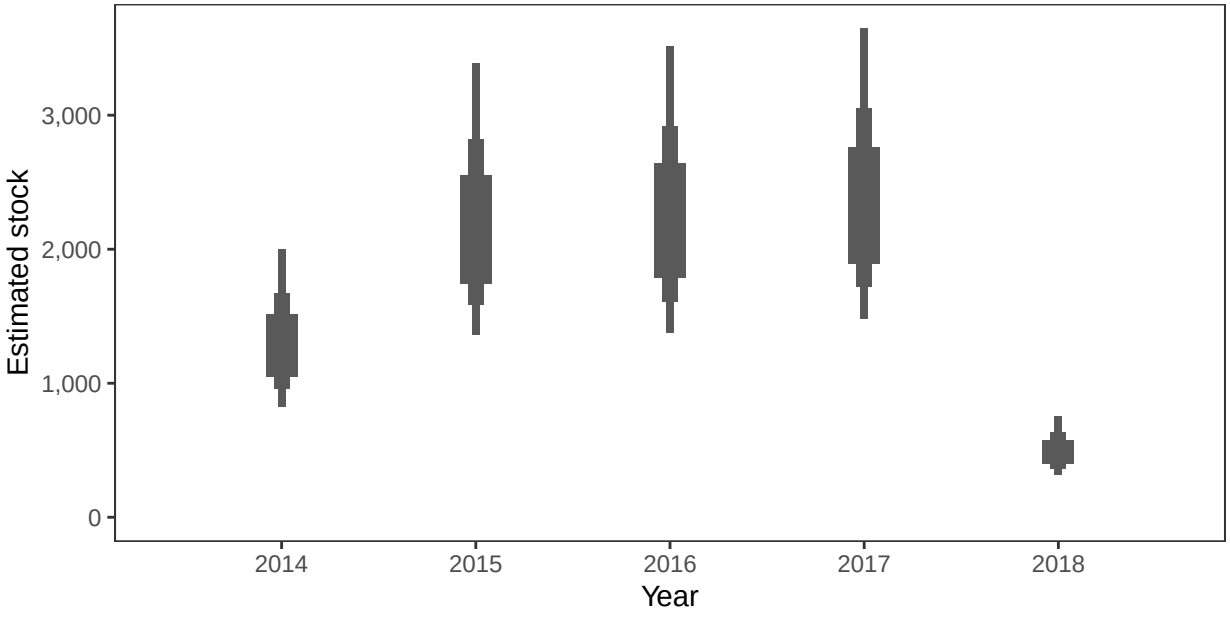


***Monthly stock estimates (out of season in black)***



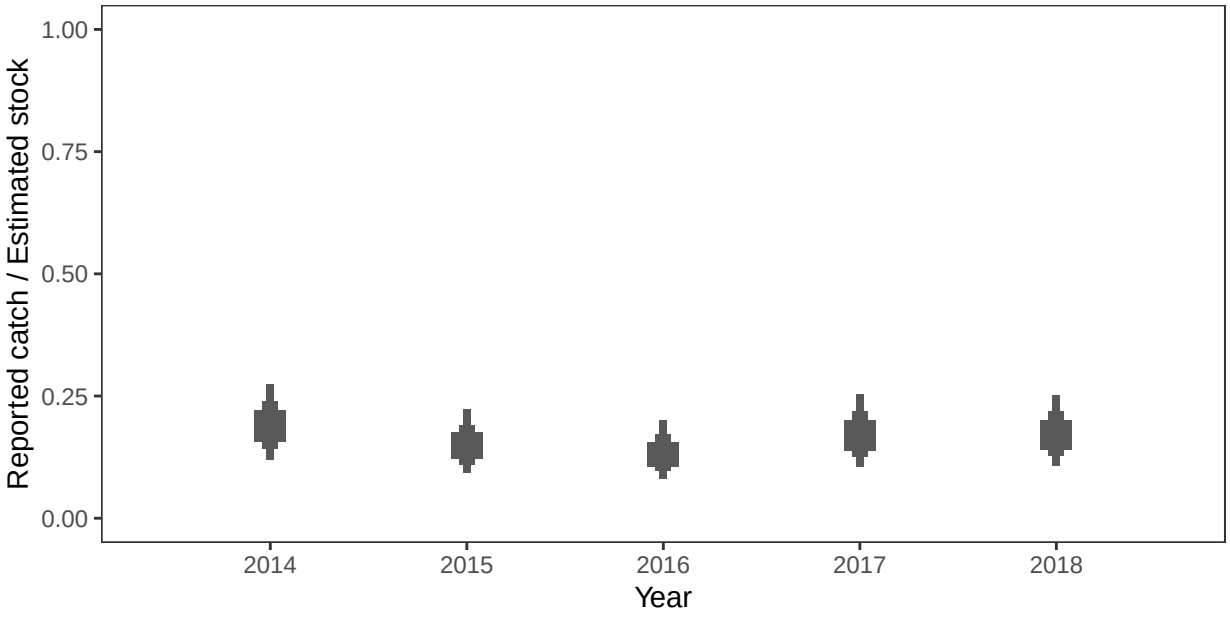

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

***Annual estimated stock***




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

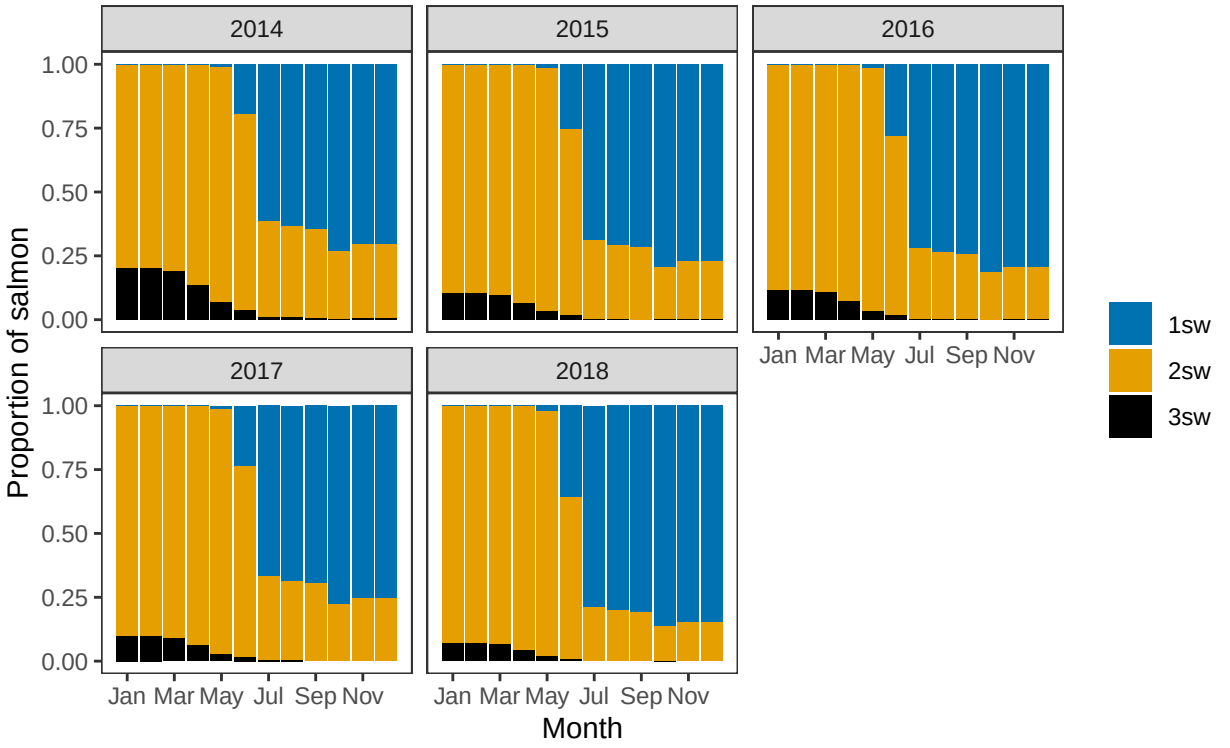
***Annual catch as a proportion of stock***



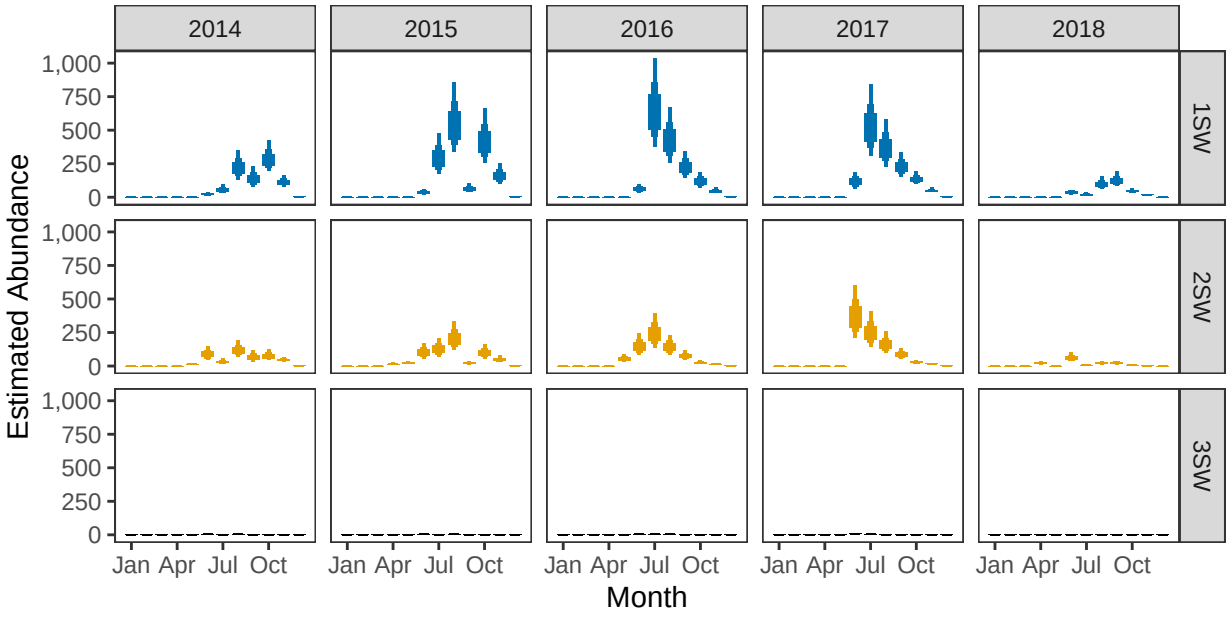

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

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

***Ages of fish***



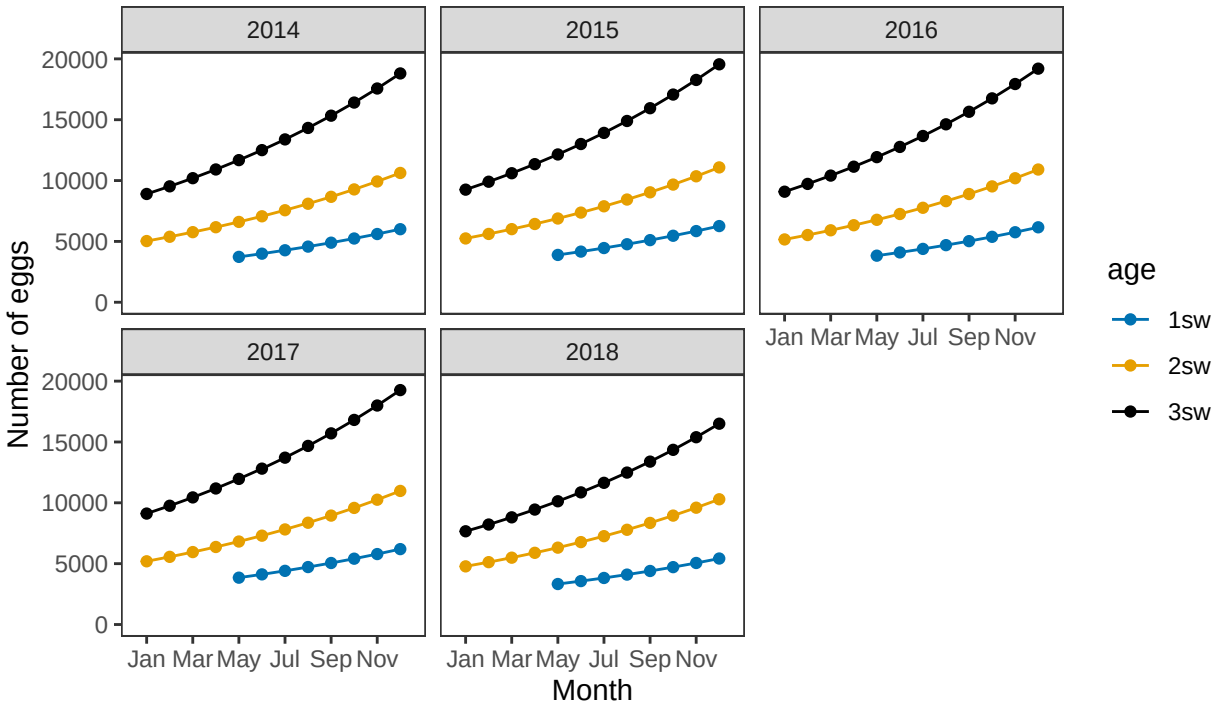
*Monthly number of spawning females*



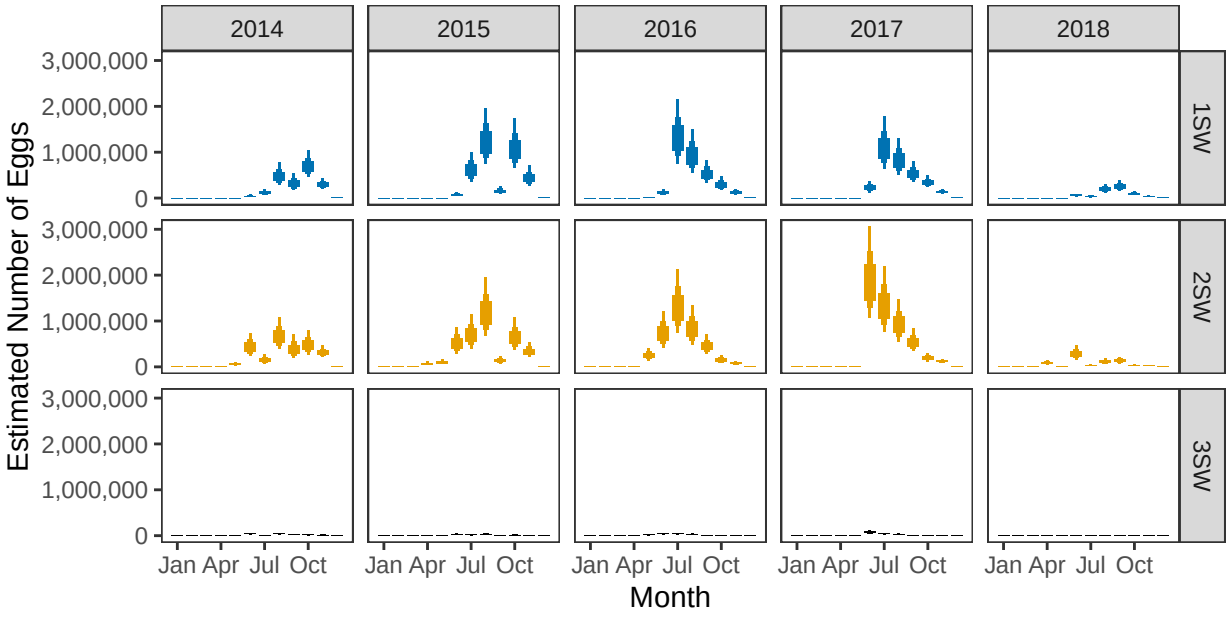

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 3. Converting Number of Spawners to Number of Eggs

*Egg contents of females*

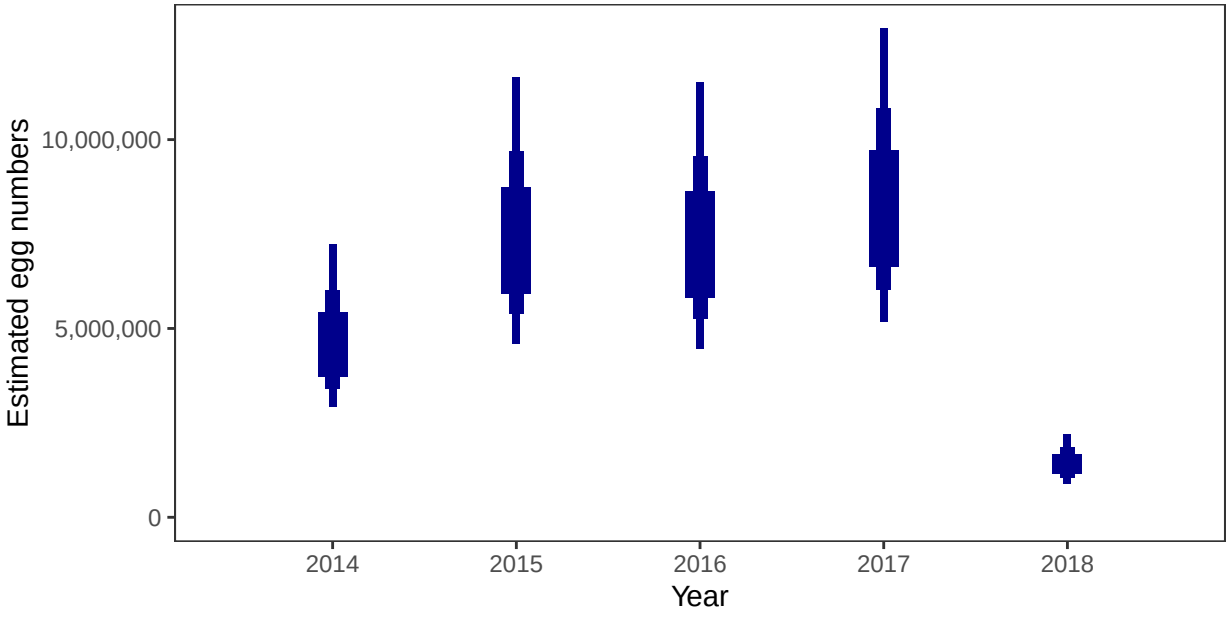


***Monthly number of eggs***




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

***Total annual egg numbers***



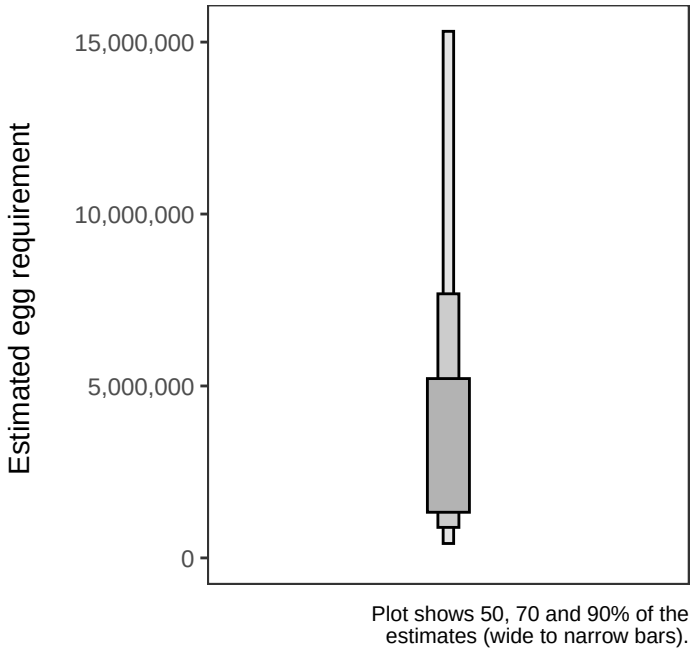

Plot shows 50, 70 and 90% of the estimates (wide to narrow bars).

## 4. Egg requirement

### *Areas of salmon habitat in square meters*

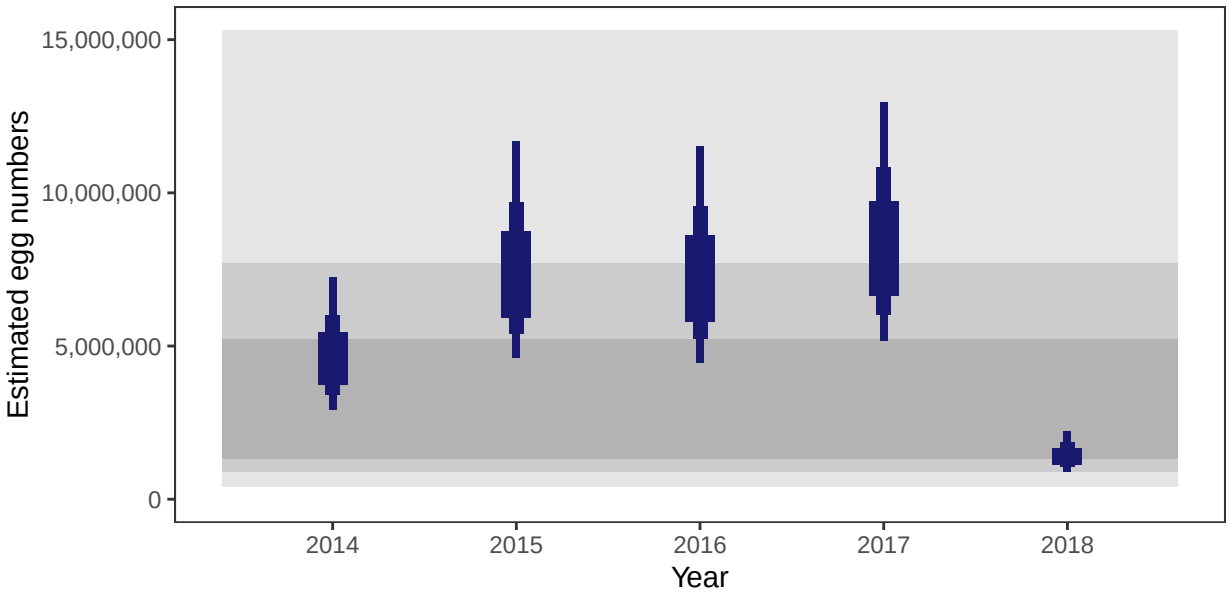
There is an estimated 1,184,975 square meters of known salmon habitat in the River Stinchar and a further 21,353 square meters where salmon may be present.

### *Egg requirement*




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

| Year | Percentage above |
|---|---|
| 2014 | 69.70 |
| 2015 | 82.58 |
| 2016 | 82.53 |
| 2017 | 85.02 |
| 2018 | 26.73 |




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)