An example report

The subtitle

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# Citation

EE Holmes, 2022. Quarto Report Template. Northwest Fisheries Science Center.

# 1. Interior Columbia Snake River Chinook

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Clark (1993) vitae ante quis dui egestas fringilla ac vitae justo (Ansley and Davis 1981; Collins et al. 1996; Deuel and Clark 1968) . Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

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## 1.1 General location

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor.

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| Figure 1.1: Interior Columbia Snake River Chinook. Map of the general location of the ESU. |

## 1.2 Recent trends

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec vitae ante quis dui egestas fringilla ac vitae justo. Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

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| Figure 1.2: Interior Columbia Snake River Chinook. Log spawner count trends. |

## 1.3 Population raw data

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

### 1.3.1 Chinook

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 2,558 | 0.449 |
| 2001 | 9,545 | 0.541 |
| 2002 | 9,347 | 0.226 |
| 2003 | 11,724 | 0.278 |
| 2004 | 15,609 | 0.390 |
| 2005 | 9,924 | 0.462 |
| 2006 | 6,485 | 0.600 |
| 2007 | 8,354 | 0.337 |
| 2008 | 11,925 | 0.251 |
| 2009 | 20,685 | 0.207 |
| 2010 | 39,764 | 0.185 |
| 2011 | 23,580 | 0.342 |
| 2012 | 30,363 | 0.373 |
| 2013 | 51,239 | 0.399 |
| 2014 | 52,989 | 0.248 |
| 2015 | 52,285 | 0.295 |
| 2016 | 31,993 | 0.270 |
| 2017 | 21,248 | 0.289 |
| 2018 | 11,705 | 0.420 |
| 2019 | 12,790 | 0.390 |
| \*\* data file: ICSRFchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

# 2. Upper Columbia Chinook

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Clark (1993) vitae ante quis dui egestas fringilla ac vitae justo (Ansley and Davis 1981; Collins et al. 1996; Deuel and Clark 1968) . Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

## 2.1 General location

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor.

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| Figure 2.1: Upper Columbia Chinook. Map of the general location of the ESU. |

## 2.2 Recent trends

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec vitae ante quis dui egestas fringilla ac vitae justo. Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

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| Figure 2.2: Upper Columbia Chinook. Log spawner count trends. |

## 2.3 Population raw data

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

### 2.3.1 Wenatchee R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 1,250 | 0.39 |
| 2001 | 3,930 | 0.25 |
| 2002 | 1,595 | 0.45 |
| 2003 | 978 | 0.39 |
| 2004 | 1,605 | 0.63 |
| 2005 | 1,473 | 0.21 |
| 2006 | 939 | 0.33 |
| 2007 | 2,005 | 0.19 |
| 2008 | 2,139 | 0.17 |
| 2009 | 2,195 | 0.27 |
| 2010 | 1,759 | 0.31 |
| 2011 | 2,876 | 0.40 |
| 2012 | 2,511 | 0.37 |
| 2013 | 2,033 | 0.34 |
| 2014 | 2,219 | 0.57 |
| 2015 | 1,605 | 0.41 |
| 2016 | 985 | 0.64 |
| 2017 | 799 | 0.43 |
| 2018 | 1,127 | 0.24 |
| \*\* data file: ICUCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 2.3.2 Entiat R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 197 | 0.37 |
| 2001 | 323 | 0.70 |
| 2002 | 230 | 0.66 |
| 2003 | 262 | 0.76 |
| 2004 | 449 | 0.32 |
| 2005 | 263 | 0.49 |
| 2006 | 188 | 0.42 |
| 2007 | 468 | 0.44 |
| 2008 | 194 | 0.49 |
| 2009 | 368 | 0.49 |
| 2010 | 445 | 0.75 |
| 2011 | 508 | 0.75 |
| 2012 | 385 | 0.66 |
| 2013 | 192 | 0.79 |
| 2014 | 245 | 0.92 |
| 2015 | 509 | 0.82 |
| 2016 | 353 | 0.84 |
| 2017 | 101 | 0.62 |
| 2018 | 92 | 0.50 |
| \*\* data file: ICUCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 2.3.3 Methow R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 979 | 0.12 |
| 2001 | 10,971 | 0.17 |
| 2002 | 2,636 | 0.13 |
| 2003 | 1,138 | 0.05 |
| 2004 | 1,497 | 0.33 |
| 2005 | 1,376 | 0.38 |
| 2006 | 1,748 | 0.19 |
| 2007 | 1,079 | 0.25 |
| 2008 | 1,002 | 0.30 |
| 2009 | 2,641 | 0.21 |
| 2010 | 2,364 | 0.25 |
| 2011 | 2,935 | 0.33 |
| 2012 | 1,280 | 0.20 |
| 2013 | 1,089 | 0.22 |
| 2014 | 2,063 | 0.25 |
| 2015 | 1,353 | 0.29 |
| 2016 | 697 | 0.46 |
| 2017 | 464 | 0.38 |
| 2018 | 500 | 0.53 |
| 2019 | 570 | 0.20 |
| \*\* data file: ICUCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

# 3. Lower Columbia Chinook

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Clark (1993) vitae ante quis dui egestas fringilla ac vitae justo (Ansley and Davis 1981; Collins et al. 1996; Deuel and Clark 1968) . Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

## 3.1 General location

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor.

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| --- |
| Figure 3.1: Lower Columbia Chinook. Map of the general location of the ESU. |

## 3.2 Recent trends

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec vitae ante quis dui egestas fringilla ac vitae justo. Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

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| Figure 3.2: Lower Columbia Chinook. Log spawner count trends. |

## 3.3 Population raw data

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

### 3.3.1 Grays & Chinook R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 89 | -99.000 |
| 2001 | 241 | -99.000 |
| 2002 | 78 | -99.000 |
| 2003 | 373 | -99.000 |
| 2004 | 726 | -99.000 |
| 2005 | 122 | -99.000 |
| 2006 | 383 | -99.000 |
| 2007 | 96 | -99.000 |
| 2008 | 95 | 0.347 |
| 2009 | 555 | 0.378 |
| 2010 | 170 | 0.486 |
| 2011 | 416 | 0.149 |
| 2012 | 160 | 0.219 |
| 2013 | 1,644 | 0.055 |
| 2014 | 969 | 0.191 |
| 2015 | 762 | 0.289 |
| 2016 | 356 | 0.226 |
| 2017 | 565 | 0.523 |
| 2018 | 734 | 0.702 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.2 Youngs Bay

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2012 | 6,686 | 0.025 |
| 2013 | 8,485 | 0.048 |
| 2014 | 2,345 | 0.051 |
| 2015 | 2,026 | 0.189 |
| 2016 | 768 | 0.243 |
| 2017 | 1,927 | 0.097 |
| 2018 | 2,383 | 0.014 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.3 Big Ck.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2012 | 1,096 | 0.050 |
| 2013 | 946 | 0.000 |
| 2014 | 2,583 | 0.016 |
| 2015 | 2,586 | 0.000 |
| 2016 | 582 | 0.077 |
| 2017 | 1,279 | 0.000 |
| 2018 | 12,301 | 0.009 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.4 Elochoman R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 146 | -99.000 |
| 2001 | 2,806 | -99.000 |
| 2002 | 7,893 | -99.000 |
| 2003 | 7,348 | -99.000 |
| 2004 | 6,880 | -99.000 |
| 2005 | 2,699 | -99.000 |
| 2006 | 324 | -99.000 |
| 2007 | 168 | -99.000 |
| 2008 | 1,320 | -99.000 |
| 2009 | 1,467 | -99.000 |
| 2010 | 1,260 | 0.108 |
| 2011 | 1,083 | 0.058 |
| 2012 | 206 | 0.301 |
| 2013 | 448 | 0.178 |
| 2014 | 680 | 0.220 |
| 2015 | 989 | 0.237 |
| 2016 | 368 | 0.249 |
| 2017 | 114 | 0.677 |
| 2018 | 77 | 0.643 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.5 Clatskanie R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2002 | 389 | 0.10 |
| 2003 | 475 | 0.10 |
| 2004 | 110 | 0.10 |
| 2005 | 101 | 0.10 |
| 2006 | 42 | 0.10 |
| 2007 | 94 | 0.10 |
| 2008 | 94 | 0.10 |
| 2009 | 167 | 0.56 |
| 2010 | 103 | 0.12 |
| 2011 | 152 | 0.08 |
| 2012 | 80 | 0.10 |
| 2013 | 39 | 0.08 |
| 2014 | 76 | 0.09 |
| 2015 | 76 | 0.09 |
| 2016 | 76 | 0.06 |
| 2017 | 0 | -99.00 |
| 2018 | 76 | 0.01 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.6 Mill/Abernathy/Germany Ck.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 370 | -99.000 |
| 2001 | 3,860 | -99.000 |
| 2002 | 3,299 | -99.000 |
| 2003 | 3,792 | -99.000 |
| 2004 | 4,611 | -99.000 |
| 2005 | 2,066 | -99.000 |
| 2006 | 622 | -99.000 |
| 2007 | 335 | -99.000 |
| 2008 | 780 | -99.000 |
| 2009 | 604 | -99.000 |
| 2010 | 2,410 | 0.065 |
| 2011 | 1,192 | 0.079 |
| 2012 | 147 | 0.143 |
| 2013 | 657 | 0.194 |
| 2014 | 554 | 0.062 |
| 2015 | 989 | 0.081 |
| 2016 | 397 | 0.219 |
| 2017 | 95 | 0.174 |
| 2018 | 14 | 0.394 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.7 Low. Cowlitz R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 2,363 | -99.000 |
| 2001 | 4,652 | -99.000 |
| 2002 | 13,514 | -99.000 |
| 2003 | 10,048 | -99.000 |
| 2004 | 4,466 | -99.000 |
| 2005 | 2,870 | -99.000 |
| 2006 | 2,944 | -99.000 |
| 2007 | 1,847 | -99.000 |
| 2008 | 1,828 | -99.000 |
| 2009 | 2,602 | -99.000 |
| 2010 | 3,734 | 0.683 |
| 2011 | 3,685 | 0.745 |
| 2012 | 2,725 | 0.570 |
| 2013 | 4,320 | 0.805 |
| 2014 | 4,347 | 0.672 |
| 2015 | 5,981 | 0.700 |
| 2016 | 3,885 | 0.741 |
| 2017 | 3,630 | 0.806 |
| 2018 | 3,553 | 0.845 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.8 Coweeman R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 290 | -99.000 |
| 2001 | 802 | -99.000 |
| 2002 | 877 | -99.000 |
| 2003 | 1,106 | -99.000 |
| 2004 | 1,503 | -99.000 |
| 2005 | 853 | -99.000 |
| 2006 | 566 | -99.000 |
| 2007 | 251 | -99.000 |
| 2008 | 424 | -99.000 |
| 2009 | 783 | -99.000 |
| 2010 | 584 | 0.707 |
| 2011 | 707 | 0.881 |
| 2012 | 526 | 0.882 |
| 2013 | 2,322 | 0.675 |
| 2014 | 830 | 0.957 |
| 2015 | 1,391 | 0.977 |
| 2016 | 439 | 0.936 |
| 2017 | 841 | 0.857 |
| 2018 | 244 | 0.884 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.9 Toutle R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 879 | -99.000 |
| 2001 | 4,971 | -99.000 |
| 2002 | 7,896 | -99.000 |
| 2003 | 13,943 | -99.000 |
| 2004 | 4,711 | -99.000 |
| 2005 | 3,303 | -99.000 |
| 2006 | 5,752 | -99.000 |
| 2007 | 1,149 | -99.000 |
| 2008 | 1,725 | -99.000 |
| 2009 | 539 | -99.000 |
| 2010 | 1,917 | 0.119 |
| 2011 | 1,498 | 0.132 |
| 2012 | 907 | 0.259 |
| 2013 | 1,754 | 0.521 |
| 2014 | 783 | 0.514 |
| 2015 | 598 | 0.632 |
| 2016 | 803 | 0.461 |
| 2017 | 594 | 0.529 |
| 2018 | 244 | 0.571 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.10 Up. Cowlitz R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 1 | -99.000 |
| 2001 | 3,646 | -99.000 |
| 2002 | 6,113 | -99.000 |
| 2003 | 4,165 | -99.000 |
| 2004 | 2,145 | -99.000 |
| 2005 | 2,901 | -99.000 |
| 2006 | 1,782 | -99.000 |
| 2007 | 1,325 | -99.000 |
| 2008 | 1,845 | -99.000 |
| 2009 | 7,491 | -99.000 |
| 2010 | 9,808 | 0.215 |
| 2011 | 12,914 | 0.330 |
| 2012 | 5,564 | 0.350 |
| 2013 | 6,488 | 0.505 |
| 2014 | 6,231 | 0.363 |
| 2015 | 5,647 | 0.598 |
| 2016 | 3,959 | 0.774 |
| 2017 | 1,520 | 0.983 |
| 2018 | 674 | 0.923 |
| 2014 | 2,915 | 0.078 |
| 2015 | 14,981 | 0.012 |
| 2016 | 11,946 | 0.017 |
| 2017 | 6,260 | 0.024 |
| 2018 | 779 | 0.198 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.11 Kalama R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 1,420 | -99.000 |
| 2001 | 3,613 | -99.000 |
| 2002 | 18,809 | -99.000 |
| 2003 | 24,710 | -99.000 |
| 2004 | 6,612 | -99.000 |
| 2005 | 9,168 | -99.000 |
| 2006 | 10,386 | -99.000 |
| 2007 | 3,296 | -99.000 |
| 2008 | 3,734 | -99.000 |
| 2009 | 7,546 | -99.000 |
| 2010 | 5,315 | 0.112 |
| 2011 | 7,591 | 0.056 |
| 2012 | 7,477 | 0.039 |
| 2013 | 8,487 | 0.096 |
| 2014 | 9,451 | 0.081 |
| 2015 | 6,423 | 0.451 |
| 2016 | 4,226 | 0.602 |
| 2017 | 3,041 | 0.570 |
| 2018 | 2,548 | 0.647 |
| 2000 | 33 | -99.000 |
| 2001 | 555 | -99.000 |
| 2002 | 886 | -99.000 |
| 2003 | 756 | -99.000 |
| 2004 | 352 | -99.000 |
| 2005 | 380 | -99.000 |
| 2006 | 292 | -99.000 |
| 2007 | 3,469 | 0.011 |
| 2008 | 352 | 0.168 |
| 2009 | 80 | 1.000 |
| 2010 | 46 | 1.000 |
| 2011 | 172 | 1.000 |
| 2012 | 81 | 1.000 |
| 2013 | 107 | 1.000 |
| 2014 | 55 | 1.000 |
| 2015 | 31 | 1.000 |
| 2016 | 28 | 1.000 |
| 2017 | 60 | 1.000 |
| 2018 | 57 | 1.000 |
| 2019 | 52 | 1.000 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.12 Lewis R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 1,689 | -99.000 |
| 2001 | 4,132 | -99.000 |
| 2002 | 5,224 | -99.000 |
| 2003 | 6,518 | -99.000 |
| 2004 | 2,171 | -99.000 |
| 2005 | 2,536 | -99.000 |
| 2006 | 1,332 | -99.000 |
| 2007 | 1,012 | -99.000 |
| 2008 | 1,256 | -99.000 |
| 2009 | 2,437 | -99.000 |
| 2010 | 2,490 | 0.640 |
| 2011 | 2,364 | 0.707 |
| 2012 | 1,950 | 0.677 |
| 2015 | 7,653 | 0.453 |
| 2016 | 4,854 | 0.456 |
| 2017 | 3,781 | 0.527 |
| 2018 | 2,243 | 0.633 |
| 2019 | 2,020 | 0.735 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.13 Sandy R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2009 | 3,128 | -99.000 |
| 2010 | 1,713 | -99.000 |
| 2011 | 1,635 | -99.000 |
| 2012 | 570 | -99.000 |
| 2013 | 2,489 | -99.000 |
| 2014 | 565 | -99.000 |
| 2015 | 2,006 | -99.000 |
| 2016 | 1,281 | -99.000 |
| 2017 | 1,403 | -99.000 |
| 2018 | 4,347 | -99.000 |
| 2019 | 2,449 | -99.000 |
| 2000 | 363 | 0.237 |
| 2001 | 3,510 | 0.237 |
| 2002 | 5,463 | 0.237 |
| 2003 | 3,993 | 0.237 |
| 2004 | 2,524 | 0.237 |
| 2005 | 3,998 | 0.237 |
| 2006 | 5,359 | 0.237 |
| 2013 | 2,413 | 0.907 |
| 2014 | 1,658 | 0.871 |
| 2015 | 3,023 | 0.885 |
| 2016 | 3,615 | 0.952 |
| 2017 | 5,706 | 0.915 |
| 2018 | 2,900 | 0.913 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.14 Clackamas R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2012 | 321 | 0.187 |
| 2013 | 422 | 0.924 |
| 2014 | 183 | 0.694 |
| 2015 | 308 | 0.623 |
| 2016 | 910 | 0.781 |
| 2017 | 90 | 0.378 |
| 2018 | 709 | 0.949 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.15 Washougal R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 2,078 | -99.000 |
| 2001 | 3,836 | -99.000 |
| 2002 | 5,725 | -99.000 |
| 2003 | 3,440 | -99.000 |
| 2004 | 10,404 | -99.000 |
| 2005 | 2,671 | -99.000 |
| 2006 | 2,600 | -99.000 |
| 2007 | 1,528 | -99.000 |
| 2008 | 2,491 | -99.000 |
| 2009 | 2,741 | -99.000 |
| 2010 | 5,530 | 0.107 |
| 2011 | 3,224 | 0.146 |
| 2012 | 965 | 0.262 |
| 2013 | 3,612 | 0.331 |
| 2014 | 1,529 | 0.653 |
| 2015 | 2,925 | 0.456 |
| 2016 | 2,198 | 0.400 |
| 2017 | 1,112 | 0.592 |
| 2018 | 1,019 | 0.886 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.16 Lewis R. Bright

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 8,741 | -99 |
| 2001 | 11,274 | -99 |
| 2002 | 13,293 | -99 |
| 2003 | 12,912 | -99 |
| 2004 | 12,928 | -99 |
| 2005 | 9,775 | -99 |
| 2006 | 5,066 | -99 |
| 2007 | 3,708 | -99 |
| 2008 | 5,485 | -99 |
| 2009 | 6,283 | -99 |
| 2010 | 9,294 | 1 |
| 2011 | 8,205 | 1 |
| 2012 | 8,143 | 1 |
| 2013 | 17,022 | 1 |
| 2014 | 20,489 | 1 |
| 2015 | 18,635 | 1 |
| 2016 | 9,311 | 1 |
| 2017 | 7,149 | 1 |
| 2018 | 4,671 | 1 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.17 NF Lewis R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 473 | -99 |
| 2001 | 678 | -99 |
| 2002 | 493 | -99 |
| 2003 | 679 | -99 |
| 2004 | 494 | -99 |
| 2005 | 116 | -99 |
| 2006 | 847 | -99 |
| 2007 | 264 | -99 |
| 2008 | 25 | -99 |
| 2009 | 58 | -99 |
| 2010 | 157 | -99 |
| 2011 | 90 | -99 |
| 2012 | 190 | -99 |
| 2013 | 60 | -99 |
| 2014 | 403 | -99 |
| 2015 | 147 | -99 |
| 2016 | 49 | -99 |
| 2017 | 68 | -99 |
| 2018 | 326 | -99 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.18 Low. Gorge Tribs.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 681 | -99.000 |
| 2001 | 653 | -99.000 |
| 2002 | 1,796 | -99.000 |
| 2003 | 1,503 | -99.000 |
| 2004 | 1,724 | -99.000 |
| 2005 | 1,346 | -99.000 |
| 2006 | 3,282 | -99.000 |
| 2007 | 552 | -99.000 |
| 2008 | 497 | -99.000 |
| 2009 | 609 | -99.000 |
| 2010 | 670 | 0.954 |
| 2011 | 1,246 | 0.948 |
| 2012 | 671 | 0.941 |
| 2013 | 1,554 | 0.782 |
| 2014 | 1,451 | 0.820 |
| 2015 | 1,569 | 0.921 |
| 2016 | 8,514 | 0.968 |
| 2017 | 2,268 | 0.971 |
| 2018 | 16,221 | 0.988 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.19 Up. Gorge Tribs.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 105 | -99.000 |
| 2001 | 868 | -99.000 |
| 2002 | 621 | -99.000 |
| 2003 | 3,670 | -99.000 |
| 2004 | 3,099 | -99.000 |
| 2005 | 656 | -99.000 |
| 2006 | 466 | -99.000 |
| 2007 | 701 | -99.000 |
| 2008 | 651 | -99.000 |
| 2009 | 661 | -99.000 |
| 2010 | 565 | 0.781 |
| 2011 | 3,084 | 0.369 |
| 2012 | 1,090 | 0.309 |
| 2013 | 2,239 | 0.272 |
| 2014 | 2,191 | 0.246 |
| 2015 | 3,826 | 0.320 |
| 2016 | 1,231 | 0.442 |
| 2017 | 697 | 0.826 |
| 2018 | 303 | 0.716 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 3.3.20 Big White Salmon R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 147 | -99.000 |
| 2001 | 1,668 | -99.000 |
| 2002 | 1,787 | -99.000 |
| 2003 | 11,480 | -99.000 |
| 2004 | 8,691 | -99.000 |
| 2005 | 1,448 | -99.000 |
| 2006 | 755 | -99.000 |
| 2007 | 898 | -99.000 |
| 2008 | 770 | -99.000 |
| 2009 | 964 | -99.000 |
| 2010 | 1,887 | 0.725 |
| 2011 | 723 | 0.885 |
| 2012 | 593 | 0.936 |
| 2013 | 984 | 0.658 |
| 2014 | 1,034 | 0.775 |
| 2015 | 773 | 0.485 |
| 2016 | 565 | 0.680 |
| 2017 | 747 | 0.538 |
| 2018 | 194 | 0.568 |
| 2013 | 88 | 0.170 |
| 2014 | 217 | 0.097 |
| 2015 | 94 | 0.160 |
| 2016 | 54 | 0.111 |
| 2017 | 15 | 0.333 |
| 2018 | 82 | 0.110 |
| \*\* data file: LCchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

# 4. Upper Willamette Chinook

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Clark (1993) vitae ante quis dui egestas fringilla ac vitae justo (Ansley and Davis 1981; Collins et al. 1996; Deuel and Clark 1968) . Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

## 4.1 General location

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor.

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| --- |
| Figure 4.1: Upper Willamette Chinook. Map of the general location of the ESU. |

## 4.2 Recent trends

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec vitae ante quis dui egestas fringilla ac vitae justo. Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

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| --- |
| Figure 4.2: Upper Willamette Chinook. Log spawner count trends. |

## 4.3 Population raw data

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

### 4.3.1 Clackamas R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 2,596 | 0.326 |
| 2001 | 4,474 | 0.326 |
| 2002 | 2,783 | 0.693 |
| 2003 | 4,313 | 0.784 |
| 2004 | 6,636 | 0.783 |
| 2005 | 3,695 | 0.621 |
| 2006 | 1,345 | 0.761 |
| 2007 | 2,122 | 0.712 |
| 2008 | 2,272 | 0.918 |
| 2009 | 1,049 | 0.922 |
| 2010 | 1,719 | 0.933 |
| 2011 | 2,263 | 0.899 |
| 2012 | 2,346 | 0.945 |
| 2013 | 2,869 | 0.955 |
| 2014 | 1,261 | 0.976 |
| 2015 | 3,161 | 0.962 |
| 2016 | 4,462 | 0.974 |
| 2017 | 4,591 | 0.985 |
| 2018 | 2,965 | 0.966 |
| \*\* data file: UWchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 4.3.2 Willamette Falls ESC

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 39,073 | -99.00 |
| 2001 | 53,973 | -99.00 |
| 2002 | 83,136 | -99.00 |
| 2003 | 87,749 | -99.00 |
| 2004 | 96,776 | -99.00 |
| 2005 | 36,633 | -99.00 |
| 2006 | 37,041 | -99.00 |
| 2007 | 23,134 | -99.00 |
| 2008 | 14,672 | -99.00 |
| 2009 | 28,529 | -99.00 |
| 2010 | 67,051 | -99.00 |
| 2011 | 45,147 | -99.00 |
| 2012 | 37,213 | -99.00 |
| 2013 | 29,561 | -99.00 |
| 2014 | 31,669 | -99.00 |
| 2015 | 53,088 | 0.18 |
| 2016 | 32,478 | 0.22 |
| 2017 | 36,628 | 0.17 |
| 2018 | 26,542 | 0.20 |
| 2019 | 20,617 | 0.34 |
| \*\* data file: UWchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 4.3.3 N Santiam R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2007 | 1,399 | 0.221 |
| 2009 | 809 | 0.443 |
| 2010 | 1,656 | 0.176 |
| 2011 | 1,521 | 0.363 |
| 2012 | 1,470 | 0.242 |
| 2013 | 1,578 | 0.223 |
| 2014 | 1,707 | 0.303 |
| 2015 | 1,338 | 0.271 |
| 2016 | 2,228 | 0.187 |
| 2017 | 1,125 | 0.375 |
| 2018 | 1,226 | 0.202 |
| \*\* data file: UWchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 4.3.4 S Santiam R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2007 | 1,735 | 0.141 |
| 2008 | 855 | 0.378 |
| 2009 | 1,418 | 0.644 |
| 2010 | 2,378 | 0.158 |
| 2011 | 1,943 | 0.389 |
| 2012 | 1,662 | 0.327 |
| 2013 | 1,155 | 0.546 |
| 2014 | 1,533 | 0.579 |
| 2015 | 1,544 | 0.407 |
| 2016 | 3,443 | 0.145 |
| 2017 | 2,458 | 0.104 |
| 2018 | 908 | 0.178 |
| \*\* data file: UWchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 4.3.5 McKenzie R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2005 | 2,967 | 0.720 |
| 2006 | 2,894 | 0.708 |
| 2007 | 3,585 | 0.715 |
| 2008 | 2,432 | 0.571 |
| 2009 | 2,540 | 0.470 |
| 2010 | 3,266 | 0.387 |
| 2011 | 3,871 | 0.649 |
| 2012 | 2,885 | 0.613 |
| 2013 | 1,786 | 0.673 |
| 2014 | 2,415 | 0.434 |
| 2015 | 2,973 | 0.562 |
| 2016 | 3,539 | 0.482 |
| 2017 | 2,377 | 0.630 |
| 2018 | 2,889 | 0.622 |
| \*\* data file: UWchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 4.3.6 MF Willamette R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2012 | 2,472 | 0.068 |
| 2013 | 1,058 | 0.051 |
| 2014 | 675 | 0.126 |
| 2015 | 1,160 | 0.120 |
| 2018 | 143 | 0.021 |
| \*\* data file: UWchinook.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

# 5. Interior Columbia Snake River Chinook steelhead

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Clark (1993) vitae ante quis dui egestas fringilla ac vitae justo (Ansley and Davis 1981; Collins et al. 1996; Deuel and Clark 1968) . Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

## 5.1 General location

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor.

|  |
| --- |
| Figure 5.1: Interior Columbia Snake River Chinook steelhead. Map of the general location of the ESU. |

## 5.2 Recent trends

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec vitae ante quis dui egestas fringilla ac vitae justo. Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

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| --- |
| Figure 5.2: Interior Columbia Snake River Chinook steelhead. Log spawner count trends. |

## 5.3 Population raw data

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

### 5.3.1 Asotin Ck.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 431 | 0.89 |
| 2001 | 844 | 0.90 |
| 2002 | 740 | 0.90 |
| 2003 | 766 | 0.90 |
| 2004 | 707 | 0.90 |
| 2005 | 779 | 0.94 |
| 2006 | 696 | 0.92 |
| 2007 | 371 | 0.83 |
| 2008 | 328 | 0.94 |
| 2009 | 375 | 0.97 |
| 2010 | 1,418 | 1.00 |
| 2011 | 1,132 | 1.00 |
| 2012 | 930 | 0.98 |
| 2013 | 540 | 1.00 |
| 2014 | 542 | 0.98 |
| 2015 | 841 | 1.00 |
| 2016 | 583 | 1.00 |
| 2017 | 316 | 0.99 |
| 2018 | 169 | 0.99 |
| \*\* data file: ICSRsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 5.3.2 Joseph Ck.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 2,020 | 1.00 |
| 2001 | 2,596 | 1.00 |
| 2002 | 4,752 | 1.00 |
| 2003 | 2,381 | 1.00 |
| 2004 | 1,756 | 1.00 |
| 2005 | 1,832 | 1.00 |
| 2006 | 1,428 | 1.00 |
| 2007 | 1,212 | 1.00 |
| 2008 | 2,322 | 1.00 |
| 2009 | 3,598 | 1.00 |
| 2010 | 1,831 | 1.00 |
| 2011 | 5,810 | 0.97 |
| 2012 | 1,357 | 0.96 |
| 2013 | 2,197 | 0.98 |
| 2014 | 2,720 | 0.97 |
| 2015 | 2,969 | 0.98 |
| 2016 | 1,663 | 0.96 |
| 2017 | 1,610 | 0.97 |
| \*\* data file: ICSRsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 5.3.3 Grande Ronde R. Up. Mainstem

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 1,084 | 0.76 |
| 2001 | 1,898 | 0.89 |
| 2002 | 1,581 | 0.92 |
| 2003 | 1,581 | 1.00 |
| 2004 | 678 | 0.99 |
| 2005 | 1,310 | 0.99 |
| 2006 | 949 | 0.99 |
| 2007 | 806 | 1.00 |
| 2008 | 2,096 | 1.00 |
| 2009 | 3,148 | 1.00 |
| 2010 | 2,876 | 0.95 |
| 2011 | 3,275 | 1.00 |
| 2012 | 3,260 | 1.00 |
| 2013 | 1,553 | 0.99 |
| 2014 | 2,512 | 1.00 |
| 2015 | 4,939 | 0.99 |
| 2016 | 2,572 | 0.99 |
| 2017 | 1,733 | 0.98 |
| 2018 | 341 | 1.00 |
| \*\* data file: ICSRsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

# 6. Upper Columbia steelhead

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Clark (1993) vitae ante quis dui egestas fringilla ac vitae justo (Ansley and Davis 1981; Collins et al. 1996; Deuel and Clark 1968) . Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

## 6.1 General location

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor.

|  |
| --- |
| Figure 6.1: Upper Columbia steelhead. Map of the general location of the ESU. |

## 6.2 Recent trends

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec vitae ante quis dui egestas fringilla ac vitae justo. Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

|  |
| --- |
| Figure 6.2: Upper Columbia steelhead. Log spawner count trends. |

## 6.3 Population raw data

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

### 6.3.1 Wenatchee R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 1,049 | 0.34 |
| 2001 | 1,656 | 0.43 |
| 2002 | 5,051 | 0.39 |
| 2003 | 2,598 | 0.33 |
| 2004 | 2,940 | 0.22 |
| 2005 | 3,608 | 0.23 |
| 2006 | 2,214 | 0.41 |
| 2007 | 869 | 0.45 |
| 2008 | 1,835 | 0.39 |
| 2009 | 1,733 | 0.41 |
| 2010 | 6,236 | 0.36 |
| 2011 | 3,048 | 0.72 |
| 2012 | 2,514 | 0.57 |
| 2013 | 1,981 | 0.47 |
| 2014 | 1,735 | 0.66 |
| 2015 | 1,738 | 0.54 |
| 2016 | 1,676 | 0.49 |
| 2017 | 752 | 0.49 |
| 2018 | 677 | 0.49 |
| \*\* data file: ICUCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 6.3.2 Entiat R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 211 | 0.24 |
| 2001 | 380 | 0.26 |
| 2002 | 794 | 0.34 |
| 2003 | 456 | 0.26 |
| 2004 | 988 | 0.10 |
| 2005 | 892 | 0.13 |
| 2006 | 461 | 0.28 |
| 2007 | 266 | 0.22 |
| 2008 | 278 | 0.44 |
| 2009 | 693 | 0.15 |
| 2010 | 1,033 | 0.29 |
| 2011 | 892 | 0.33 |
| 2012 | 747 | 0.25 |
| 2013 | 519 | 0.25 |
| 2014 | 433 | 0.37 |
| 2015 | 595 | 0.39 |
| 2016 | 401 | 0.31 |
| 2017 | 161 | 0.31 |
| 2018 | 160 | 0.31 |
| \*\* data file: ICUCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 6.3.3 Methow R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 1,860 | 0.13 |
| 2001 | 3,374 | 0.10 |
| 2002 | 9,884 | 0.06 |
| 2003 | 4,561 | 0.11 |
| 2004 | 4,928 | 0.13 |
| 2005 | 4,304 | 0.12 |
| 2006 | 3,119 | 0.14 |
| 2007 | 3,375 | 0.11 |
| 2008 | 3,306 | 0.22 |
| 2009 | 4,031 | 0.16 |
| 2010 | 7,781 | 0.14 |
| 2011 | 3,103 | 0.32 |
| 2012 | 4,204 | 0.18 |
| 2013 | 3,225 | 0.15 |
| 2014 | 2,528 | 0.39 |
| 2015 | 2,635 | 0.42 |
| 2016 | 3,165 | 0.30 |
| 2017 | 1,899 | 0.24 |
| 2018 | 1,384 | 0.28 |
| 2019 | 1,301 | 0.31 |
| \*\* data file: ICUCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 6.3.4 Okanogan R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 973 | 0.07 |
| 2001 | 1,786 | 0.06 |
| 2002 | 4,842 | 0.03 |
| 2003 | 2,436 | 0.06 |
| 2004 | 2,391 | 0.08 |
| 2005 | 2,123 | 0.07 |
| 2005 | 1,226 | 0.12 |
| 2006 | 899 | 0.22 |
| 2007 | 1,268 | 0.12 |
| 2008 | 1,386 | 0.16 |
| 2009 | 2,133 | 0.10 |
| 2010 | 3,496 | 0.21 |
| 2011 | 1,674 | 0.20 |
| 2012 | 2,802 | 0.12 |
| 2013 | 1,937 | 0.13 |
| 2014 | 1,356 | 0.38 |
| 2015 | 1,461 | 0.31 |
| 2016 | 1,566 | 0.25 |
| 2017 | 1,044 | 0.11 |
| 2018 | 453 | 0.27 |
| \*\* data file: ICUCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

# 7. Lower Columbia steelhead

The is a new line. Clark (1993) vitae ante quis dui egestas fringilla ac vitae justo (Ansley and Davis 1981; Collins et al. 1996; Deuel and Clark 1968) . Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

## 7.1 General location

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor.

|  |
| --- |
| Figure 7.1: Lower Columbia steelhead. Map of the general location of the ESU. |

## 7.2 Recent trends

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec vitae ante quis dui egestas fringilla ac vitae justo. Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

|  |
| --- |
| Figure 7.2: Lower Columbia steelhead. Log spawner count trends. |

## 7.3 Population raw data

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

### 7.3.1 Coweeman R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 530 | -99 |
| 2001 | 384 | -99 |
| 2002 | 298 | -99 |
| 2003 | 460 | -99 |
| 2004 | 722 | -99 |
| 2005 | 370 | -99 |
| 2006 | 372 | -99 |
| 2007 | 384 | -99 |
| 2008 | 722 | -99 |
| 2009 | 602 | -99 |
| 2010 | 528 | -99 |
| 2011 | 408 | -99 |
| 2012 | 256 | -99 |
| 2013 | 622 | -99 |
| 2014 | 496 | -99 |
| 2015 | 940 | -99 |
| 2016 | 886 | -99 |
| 2017 | 294 | -99 |
| 2018 | 474 | -99 |
| 2019 | 354 | -99 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.2 NF Toutle R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2005 | 222 | -99 |
| 2006 | 592 | -99 |
| 2007 | 410 | -99 |
| 2008 | 554 | -99 |
| 2009 | 610 | -99 |
| 2010 | 256 | -99 |
| 2011 | 246 | -99 |
| 2012 | 266 | -99 |
| 2013 | 430 | -99 |
| 2014 | 310 | -99 |
| 2015 | 922 | -99 |
| 2016 | 816 | -99 |
| 2017 | 290 | -99 |
| 2018 | 466 | -99 |
| 2019 | 112 | -99 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.3 SF Toutle R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 490 | -99 |
| 2001 | 348 | -99 |
| 2002 | 640 | -99 |
| 2003 | 1,510 | -99 |
| 2004 | 1,212 | -99 |
| 2005 | 520 | -99 |
| 2006 | 656 | -99 |
| 2007 | 548 | -99 |
| 2008 | 412 | -99 |
| 2009 | 498 | -99 |
| 2010 | 274 | -99 |
| 2011 | 210 | -99 |
| 2012 | 378 | -99 |
| 2013 | 972 | -99 |
| 2014 | 708 | -99 |
| 2015 | 1,340 | -99 |
| 2016 | 1,532 | -99 |
| 2017 | 344 | -99 |
| 2018 | 624 | -99 |
| 2019 | 284 | -99 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.4 Up. Cowlitz R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 412 | -99.000 |
| 2001 | 729 | -99.000 |
| 2002 | 2,787 | -99.000 |
| 2003 | 2,532 | -99.000 |
| 2004 | 1,397 | -99.000 |
| 2005 | 691 | -99.000 |
| 2006 | 999 | -99.000 |
| 2007 | 1,253 | -99.000 |
| 2008 | 1,089 | -99.000 |
| 2009 | 3,556 | -99.000 |
| 2010 | 622 | -99.000 |
| 2011 | 646 | -99.000 |
| 2012 | 580 | 1.000 |
| 2013 | 343 | 1.000 |
| 2014 | 253 | 0.095 |
| 2015 | 449 | 0.336 |
| 2016 | 450 | 0.267 |
| 2017 | 325 | 0.665 |
| 2018 | 586 | 0.683 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.5 Tilton R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 797 | -99.000 |
| 2001 | 1,015 | -99.000 |
| 2002 | 1,855 | -99.000 |
| 2003 | 695 | -99.000 |
| 2004 | 846 | -99.000 |
| 2005 | 555 | -99.000 |
| 2006 | 299 | -99.000 |
| 2007 | 143 | -99.000 |
| 2008 | 142 | -99.000 |
| 2009 | 1,419 | -99.000 |
| 2010 | 179 | 1.000 |
| 2011 | 209 | 1.000 |
| 2012 | 284 | 1.000 |
| 2013 | 445 | 1.000 |
| 2014 | 292 | 1.000 |
| 2015 | 549 | 0.661 |
| 2016 | 513 | 0.710 |
| 2017 | 178 | 0.871 |
| 2018 | 182 | 0.912 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.6 Kalama R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 921 | -99 |
| 2001 | 1,042 | -99 |
| 2002 | 1,495 | -99 |
| 2003 | 1,815 | -99 |
| 2004 | 2,400 | -99 |
| 2005 | 1,982 | -99 |
| 2006 | 1,733 | -99 |
| 2007 | 1,011 | -99 |
| 2008 | 742 | -99 |
| 2009 | 1,044 | -99 |
| 2010 | 961 | -99 |
| 2011 | 622 | -99 |
| 2012 | 1,061 | -99 |
| 2013 | 811 | -99 |
| 2014 | 948 | -99 |
| 2015 | 1,206 | -99 |
| 2016 | 1,203 | -99 |
| 2017 | 686 | -99 |
| 2018 | 594 | -99 |
| 2019 | 153 | -99 |
| 2000 | 140 | -99 |
| 2001 | 286 | -99 |
| 2002 | 454 | -99 |
| 2003 | 817 | -99 |
| 2004 | 549 | -99 |
| 2005 | 435 | -99 |
| 2006 | 387 | -99 |
| 2007 | 361 | -99 |
| 2008 | 237 | -99 |
| 2009 | 308 | -99 |
| 2010 | 370 | -99 |
| 2011 | 534 | -99 |
| 2012 | 646 | -99 |
| 2013 | 738 | -99 |
| 2014 | 400 | -99 |
| 2015 | 814 | -99 |
| 2016 | 868 | -99 |
| 2017 | 647 | -99 |
| 2018 | 321 | -99 |
| 2019 | 377 | -99 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.7 EF Lewis R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2001 | 377 | -99 |
| 2002 | 292 | -99 |
| 2003 | 532 | -99 |
| 2004 | 1,298 | -99 |
| 2005 | 246 | -99 |
| 2006 | 458 | -99 |
| 2007 | 448 | -99 |
| 2008 | 548 | -99 |
| 2009 | 688 | -99 |
| 2010 | 336 | -99 |
| 2011 | 308 | -99 |
| 2012 | 272 | -99 |
| 2013 | 488 | -99 |
| 2014 | 414 | -99 |
| 2015 | 678 | -99 |
| 2016 | 984 | -99 |
| 2017 | 746 | -99 |
| 2018 | 538 | -99 |
| 2019 | 322 | -99 |
| 2000 | 229 | -99 |
| 2001 | 271 | -99 |
| 2002 | 440 | -99 |
| 2003 | 910 | -99 |
| 2004 | 425 | -99 |
| 2005 | 673 | -99 |
| 2006 | 560 | -99 |
| 2007 | 412 | -99 |
| 2008 | 365 | -99 |
| 2009 | 800 | -99 |
| 2010 | 600 | -99 |
| 2011 | 1,036 | -99 |
| 2012 | 1,084 | -99 |
| 2013 | 1,059 | -99 |
| 2014 | 617 | -99 |
| 2015 | 843 | -99 |
| 2016 | 824 | -99 |
| 2017 | 739 | -99 |
| 2018 | 617 | -99 |
| 2019 | 367 | -99 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.8 Clackamas R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 879 | 0.848 |
| 2001 | 2,048 | 0.727 |
| 2002 | 3,330 | 0.698 |
| 2006 | 1,763 | 0.660 |
| 2007 | 1,450 | 0.833 |
| 2012 | 2,790 | 0.980 |
| 2013 | 2,700 | 0.899 |
| 2014 | 3,421 | 0.995 |
| 2015 | 4,024 | 0.929 |
| 2016 | 4,509 | 0.919 |
| 2017 | 2,558 | 0.989 |
| 2018 | 3,428 | 0.884 |
| 2019 | 1,702 | 0.881 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.9 Sandy R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2010 | 2,096 | 0.715 |
| 2011 | 527 | 1.000 |
| 2012 | 357 | 1.000 |
| 2013 | 3,747 | 0.936 |
| 2014 | 3,344 | 0.972 |
| 2015 | 5,189 | 0.900 |
| 2016 | 5,831 | 0.941 |
| 2017 | 2,127 | 0.999 |
| 2018 | 6,539 | 0.915 |
| 2019 | 2,032 | 0.933 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.10 Washougal R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2001 | 216 | -99 |
| 2002 | 286 | -99 |
| 2003 | 764 | -99 |
| 2004 | 1,114 | -99 |
| 2005 | 320 | -99 |
| 2006 | 524 | -99 |
| 2007 | 632 | -99 |
| 2008 | 732 | -99 |
| 2009 | 418 | -99 |
| 2010 | 232 | -99 |
| 2011 | 204 | -99 |
| 2012 | 306 | -99 |
| 2013 | 678 | -99 |
| 2014 | 388 | -99 |
| 2015 | 648 | -99 |
| 2016 | 636 | -99 |
| 2017 | 602 | -99 |
| 2018 | 438 | -99 |
| 2019 | 130 | -99 |
| 2000 | 140 | -99 |
| 2001 | 184 | -99 |
| 2002 | 404 | -99 |
| 2003 | 607 | -99 |
| 2005 | 608 | -99 |
| 2006 | 636 | -99 |
| 2007 | 681 | -99 |
| 2008 | 755 | -99 |
| 2009 | 433 | -99 |
| 2010 | 787 | -99 |
| 2012 | 842 | -99 |
| 2014 | 544 | -99 |
| 2015 | 783 | -99 |
| 2016 | 624 | -99 |
| 2017 | 567 | -99 |
| 2018 | 876 | -99 |
| 2019 | 456 | -99 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.11 Up. Gorge Tribs.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 20 | -99 |
| 2001 | 53 | -99 |
| 2002 | 51 | -99 |
| 2003 | 27 | -99 |
| 2004 | 28 | -99 |
| 2005 | 22 | -99 |
| 2006 | 23 | -99 |
| 2007 | 13 | -99 |
| 2008 | 7 | -99 |
| 2009 | 20 | -99 |
| 2010 | 30 | -99 |
| 2011 | 17 | -99 |
| 2012 | 21 | -99 |
| 2013 | 18 | -99 |
| 2014 | 8 | -99 |
| 2015 | 12 | -99 |
| 2016 | 10 | -99 |
| 2017 | 7 | -99 |
| 2018 | 10 | -99 |
| 2019 | 8 | -99 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.12 Hood R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2011 | 664 | 0.408 |
| 2012 | 1,506 | 0.434 |
| 2013 | 675 | 0.441 |
| 2014 | 974 | 0.182 |
| 2015 | 1,316 | 0.937 |
| 2016 | 1,293 | 0.478 |
| 2017 | 1,047 | 0.490 |
| 2018 | 846 | 0.539 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

### 7.3.13 Wind R.

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 218 | 1.000 |
| 2001 | 503 | 0.966 |
| 2002 | 700 | 0.986 |
| 2003 | 1,113 | 1.000 |
| 2004 | 898 | 0.994 |
| 2005 | 608 | 0.987 |
| 2006 | 661 | 0.995 |
| 2007 | 766 | 1.000 |
| 2008 | 638 | 1.000 |
| 2009 | 614 | 0.985 |
| 2010 | 772 | 0.992 |
| 2011 | 1,501 | 0.997 |
| 2012 | 819 | 0.995 |
| 2013 | 763 | 0.996 |
| 2014 | 281 | 1.000 |
| 2015 | 593 | 0.973 |
| 2016 | 1,018 | 0.995 |
| 2017 | 1,064 | 0.995 |
| 2018 | 516 | 1.000 |
| 2019 | 303 | 1.000 |
| \*\* data file: LCsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

# 8. Upper Willamette steelhead

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Clark (1993) vitae ante quis dui egestas fringilla ac vitae justo (Ansley and Davis 1981; Collins et al. 1996; Deuel and Clark 1968) . Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

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## 8.1 General location

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|  |
| --- |
| Figure 8.1: Upper Willamette steelhead. Map of the general location of the ESU. |

## 8.2 Recent trends

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec vitae ante quis dui egestas fringilla ac vitae justo. Pellentesque quis magna vel odio malesuada rutrum a volutpat nisl. Aliquam fermentum, urna eget tristique mattis, augue augue tristique ipsum, eget finibus nunc eros non nisi. Phasellus mattis hendrerit sapien, quis accumsan dui pretium eget. Nunc eleifend laoreet urna a luctus. Nulla vel sapien in nulla gravida tempus sit amet a metus. Vivamus porta condimentum tempus. Maecenas rhoncus elit id ultricies scelerisque. In gravida urna in ligula fringilla euismod. Curabitur efficitur porta libero ac fermentum. Cras fringilla et libero at posuere. Curabitur sodales dapibus elit a convallis.

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

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| --- |
| Figure 8.2: Upper Willamette steelhead. Log spawner count trends. |

## 8.3 Population raw data

Morbi iaculis eget augue eget facilisis. Etiam non orci dignissim, efficitur purus viverra, pellentesque neque. Aliquam ornare, magna ut dictum mollis, nunc lorem iaculis nibh, eu consequat lectus urna euismod tortor. Etiam ut felis nisl. Nunc quis euismod felis. Vestibulum gravida nisi mi, quis mollis velit ullamcorper non. Aliquam tempus fringilla bibendum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce viverra nulla elementum libero mollis, quis cursus velit sagittis.

### 8.3.1 Willamette Falls ESC

| Year | Spawners | Fracwild |
| --- | --- | --- |
| 2000 | 4,761 | 1 |
| 2001 | 12,525 | 1 |
| 2002 | 17,998 | 1 |
| 2003 | 9,092 | 1 |
| 2004 | 11,842 | 1 |
| 2005 | 5,963 | 1 |
| 2006 | 6,404 | 1 |
| 2007 | 5,497 | 1 |
| 2008 | 5,442 | 1 |
| 2009 | 2,813 | 1 |
| 2010 | 7,337 | 1 |
| 2011 | 7,441 | 1 |
| 2012 | 7,616 | 1 |
| 2013 | 4,944 | 1 |
| 2014 | 5,349 | 1 |
| 2015 | 4,508 | 1 |
| 2016 | 5,778 | 1 |
| 2017 | 822 | 1 |
| 2018 | 1,829 | 1 |
| 2019 | 3,202 | 1 |
| \*\* data file: UWsthd.csv mod date: Wed Aug 10 17:57:25 2022 -0600 | | |
| \* These spawner counts are from river redd surveys. | | |
| flextable | | |

**?(caption)**

# 9. Conclusion

We want to reference the Interior Columbia Upper Columbia Entiat population **?@tbl-rawICUCchinook-100**. It is in Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam commodo sit amet nibh non molestie. Maecenas hendrerit nisl velit, a condimentum enim lobortis sit amet. Ut vitae nunc sed mauris condimentum fermentum. Mauris pellentesque nec neque id elementum. Suspendisse a quam aliquam, facilisis urna venenatis, malesuada diam. Pellentesque in fringilla orci. Cras sed purus urna. Ut pharetra enim ut ligula egestas mattis. I need to reference the work of Hardy (1978).

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