Bilan\_CIEM

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# Tables for ICES Working Group on North Atlantic Salmon (WGNAS)

Exploitation rate (table 7), Spawning stock, egg deposition and attainment of CLs, (table 8); Juvenile and adult salmon numbers (estim.) in-river return rate (table 9) for the [ORE-DiaPFC](https://www6.inra.fr/diapfc) rivers

# Tables description:

* Table 7 - Exploitation rate in the river Scorff
* Table 8 - Index rivers :spawning stock and egg deposition and attainment of CLs  
  Nota: For Nivelle r., spawning stock is females only.
* Table 9 - Juvenile and adult salmon numbers (estim.) in-river return rate in the monitored rivers  
  Nota : juvenile fish are smolts except in r. Nivelle for which they are parrs 0+ (/! parr 0+ year is then reported for r. Nivelle). Adult numbers refer to the smolt year N: runs of N+1 and N+2 (/! N+2 to N+5 respectively for r. Nivelle according to the river and sea ages of the returning adults of the same cohort; i.e. year of birth). These tables are based on wild fish only except for the river Nivelle were juvenile stocking occurred from 1986 to 1995, which contributed to adult returns from 1988 up to 2000.
* Table 10 - Adult salmon captured (unmarked) at traps in the monitored rivers

# Conservation limits (millions) used:

* Nivelle: 1.44
* Scorff: 0.63 /! revised from data in 2016 by Buoro & Prévost (using 3 eggs/m²)
* Oir: 0.12
* Bresle: 0.36

## Table 7 - Exploitation rate in the rivers

NB: Scorff only

Table 7 - Exploitation rate in the river Scorff

|  |  |  |
| --- | --- | --- |
| Year | 1SW (%) | MSW (%) |
| 1994 | 8.4 | 24.7 |
| 1995 | 9.9 | 11.7 |
| 1996 | 13.5 | 12.6 |
| 1997 | 7.8 | 11.1 |
| 1998 | 12.5 | 17.9 |
| 1999 | 9.8 | 7.0 |
| 2000 | 13.1 | 21.3 |
| 2001 | 10.0 | 15.0 |
| 2002 | 4.1 | 4.3 |
| 2003 | 0.0 | 12.3 |
| 2004 | 7.7 | 15.6 |
| 2005 | 5.9 | 20.0 |
| 2006 | 7.9 | 28.0 |
| 2007 | 10.3 | 12.9 |
| 2008 | 4.2 | 15.9 |
| 2009 | 1.9 | 11.1 |
| 2010 | 7.6 | 4.6 |
| 2011 | 7.3 | 5.6 |
| 2012 | 8.9 | 17.7 |
| 2013 | 4.8 | 6.7 |
| 2014 | 8.1 | 8.8 |
| 2015 | 8.7 | 17.1 |
| 2016 | 5.3 | 11.6 |
| 2017 | 3.8 | 9.2 |
| 2018 | 4.7 | 10.0 |
| 2019 | 4.4 | 21.7 |

# Table 8 - Index rivers :spawning stock, egg deposition and attainment of CLs

Table 8 - Index rivers :spawning stock and egg deposition and attainment of CLs -Nivelle (2019) ; Conservation Limit = 1.44 (millions)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | 1SW | MSW | eggs (million) | eggs/CL |
| 1984 | 63 | 15 | 0.25 | 0.17 |
| 1985 | 37 | 26 | 0.22 | 0.15 |
| 1986 | 179 | 28 | 0.55 | 0.38 |
| 1987 | 69 | 21 | 0.30 | 0.21 |
| 1988 | 76 | 14 | 0.23 | 0.16 |
| 1989 | 144 | 54 | 0.63 | 0.44 |
| 1990 | 218 | 37 | 0.79 | 0.55 |
| 1991 | 157 | 55 | 0.64 | 0.44 |
| 1992 | 180 | 53 | 0.77 | 0.53 |
| 1993 | 419 | 42 | 1.36 | 0.95 |
| 1994 | 277 | 43 | 0.99 | 0.69 |
| 1995 | 155 | 54 | 0.71 | 0.49 |
| 1996 | 139 | 39 | 0.63 | 0.44 |
| 1997 | 88 | 12 | 0.33 | 0.23 |
| 1998 | 139 | 12 | 0.36 | 0.25 |
| 1999 | 129 | 32 | 0.45 | 0.31 |
| 2000 | 133 | 29 | 0.42 | 0.29 |
| 2001 | 176 | 28 | 0.53 | 0.37 |
| 2002 | 377 | 37 | 1.06 | 0.74 |
| 2003 | 20 | 60 | 0.40 | 0.28 |
| 2004 | 76 | 16 | 0.27 | 0.19 |
| 2005 | 77 | 14 | 0.30 | 0.21 |
| 2006 | 33 | 30 | 0.25 | 0.18 |
| 2007 | 52 | 15 | 0.19 | 0.13 |
| 2008 | 54 | 28 | 0.32 | 0.22 |
| 2009 | 46 | 19 | 0.21 | 0.15 |
| 2010 | 136 | 21 | 0.37 | 0.25 |
| 2011 | 37 | 43 | 0.32 | 0.22 |
| 2012 | 74 | 16 | 0.23 | 0.16 |
| 2013 | 86 | 43 | 0.43 | 0.30 |
| 2014 | 75 | 47 | 0.39 | 0.27 |
| 2015 | 54 | 39 | 0.33 | 0.23 |
| 2016 | 59 | 23 | 0.23 | 0.16 |
| 2017 | 80 | 17 | 0.24 | 0.17 |
| 2018 | 36 | 28 | 0.24 | 0.17 |
| 2019 | 117 | 17 | 0.28 | 0.20 |

Table 8 - Index rivers :spawning stock and egg deposition and attainment of CLs -Scorff (2019) ; Conservation Limit = 300 eggs/100m²

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | 1SW | MSW | eggs (million) | eggs/CL |
| 1984 | NA | NA | NA | NA |
| 1985 | NA | NA | NA | NA |
| 1986 | NA | NA | NA | NA |
| 1987 | NA | NA | NA | NA |
| 1988 | NA | NA | NA | NA |
| 1989 | NA | NA | NA | NA |
| 1990 | NA | NA | NA | NA |
| 1991 | NA | NA | NA | NA |
| 1992 | NA | NA | NA | NA |
| 1993 | NA | NA | NA | NA |
| 1994 | 444 | 54 | 0.95 | 1.58 |
| 1995 | 635 | 39 | 1.17 | 1.95 |
| 1996 | 567 | 61 | 1.17 | 1.94 |
| 1997 | 402 | 30 | 0.77 | 1.28 |
| 1998 | 488 | 22 | 0.87 | 1.44 |
| 1999 | 228 | 68 | 0.66 | 1.10 |
| 2000 | 270 | 5 | 0.46 | 0.76 |
| 2001 | 274 | 31 | 0.57 | 0.95 |
| 2002 | 555 | 21 | 0.97 | 1.61 |
| 2003 | 225 | 38 | 0.52 | 0.83 |
| 2004 | 1022 | 52 | 1.84 | 2.92 |
| 2005 | 418 | 98 | 1.10 | 1.74 |
| 2006 | 816 | 75 | 1.62 | 2.57 |
| 2007 | 433 | 79 | 1.04 | 1.64 |
| 2008 | 273 | 72 | 0.75 | 1.19 |
| 2009 | 256 | 102 | 0.86 | 1.36 |
| 2010 | 698 | 61 | 1.37 | 2.17 |
| 2011 | 352 | 191 | 1.41 | 2.23 |
| 2012 | 348 | 115 | 1.07 | 1.49 |
| 2013 | 572 | 96 | 1.33 | 1.94 |
| 2014 | 630 | 122 | 1.54 | 2.24 |
| 2015 | 523 | 139 | 1.44 | 2.10 |
| 2016 | 490 | 68 | 1.07 | 1.56 |
| 2017 | 770 | 123 | 1.76 | 2.56 |
| 2018 | 281 | 125 | 1.00 | 1.46 |
| 2019 | 210 | 34 | 0.49 | 0.71 |

Table 8 - Index rivers :spawning stock and egg deposition and attainment of CLs -Oir (2019) ; Conservation Limit = 0.12 (millions)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | 1SW | MSW | eggs (million) | eggs/CL |
| 1984 | 227 | 31 | 0.50 | 4.18 |
| 1985 | 203 | 62 | 0.68 | 5.68 |
| 1986 | 64 | 46 | 0.35 | 2.94 |
| 1987 | 166 | 15 | 0.17 | 1.44 |
| 1988 | 125 | 72 | 0.62 | 5.13 |
| 1989 | 177 | 26 | 0.39 | 3.21 |
| 1990 | 78 | 20 | 0.24 | 1.96 |
| 1991 | 46 | 7 | 0.10 | 0.79 |
| 1992 | 36 | 8 | 0.14 | 1.15 |
| 1993 | 100 | 10 | 0.15 | 1.23 |
| 1994 | 41 | 15 | 0.24 | 2.03 |
| 1995 | 135 | 6 | 0.31 | 2.59 |
| 1996 | 249 | 13 | 0.58 | 4.83 |
| 1997 | 39 | 17 | 0.20 | 1.70 |
| 1998 | 152 | 15 | 0.34 | 2.84 |
| 1999 | 199 | 29 | 0.46 | 3.86 |
| 2000 | 225 | 31 | 0.70 | 5.83 |
| 2001 | 175 | 17 | 0.35 | 2.91 |
| 2002 | 281 | 36 | 0.72 | 6.02 |
| 2003 | 181 | 33 | 0.56 | 4.68 |
| 2004 | 322 | 74 | 1.19 | 9.95 |
| 2005 | 138 | 27 | 0.34 | 2.82 |
| 2006 | 174 | 37 | 0.62 | 5.20 |
| 2007 | 182 | 28 | 0.49 | 4.05 |
| 2008 | 93 | 21 | 0.38 | 3.18 |
| 2009 | 138 | 26 | 0.36 | 3.00 |
| 2010 | 470 | 26 | 1.07 | 8.92 |
| 2011 | 202 | 72 | 0.92 | 7.67 |
| 2012 | 200 | 53 | 0.46 | 3.80 |
| 2013 | 257 | 65 | 0.70 | 5.87 |
| 2014 | 221 | 58 | 0.79 | 6.62 |
| 2015 | 122 | 46 | 0.55 | 4.58 |
| 2016 | 270 | 31 | 0.64 | 5.30 |
| 2017 | 211 | 47 | 0.46 | 3.82 |
| 2018 | 184 | 44 | 0.70 | 5.80 |
| 2019 | 163 | 36 | 0.47 | 3.95 |

Table 8 - Index rivers :spawning stock and egg deposition and attainment of CLs -Bresle (2019) ; Conservation Limit = 0.36 (millions)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | 1SW | MSW | eggs (million) | eggs/CL |
| 1984 | 62 | 43 | 0.41 | 1.14 |
| 1985 | 100 | 32 | 0.43 | 1.20 |
| 1986 | 172 | 36 | 0.63 | 1.75 |
| 1987 | 133 | 41 | 0.56 | 1.57 |
| 1988 | 96 | 31 | 0.43 | 1.18 |
| 1989 | 173 | 42 | 0.68 | 1.88 |
| 1990 | 71 | 50 | 0.47 | 1.32 |
| 1991 | 160 | 28 | 0.55 | 1.54 |
| 1992 | 135 | 44 | 0.59 | 1.63 |
| 1993 | 48 | 27 | 0.29 | 0.80 |
| 1994 | 45 | 18 | 0.22 | 0.61 |
| 1995 | 114 | 7 | 0.32 | 0.89 |
| 1996 | 36 | 27 | 0.25 | 0.70 |
| 1997 | 32 | 14 | 0.16 | 0.45 |
| 1998 | 227 | 14 | 0.62 | 1.73 |
| 1999 | 29 | 56 | 0.42 | 1.15 |
| 2000 | 58 | 13 | 0.23 | 0.64 |
| 2001 | 88 | 17 | 0.33 | 0.93 |
| 2002 | 108 | 32 | 0.45 | 1.26 |
| 2003 | 28 | 22 | 0.21 | 0.57 |
| 2004 | 83 | 15 | 0.29 | 0.80 |
| 2005 | 260 | 50 | 0.92 | 2.54 |
| 2006 | 107 | 121 | 0.97 | 2.70 |
| 2007 | 75 | 21 | 0.31 | 0.87 |
| 2008 | 130 | 13 | 0.39 | 1.09 |
| 2009 | 85 | 49 | 0.49 | 1.37 |
| 2010 | 136 | 46 | 0.60 | 1.67 |
| 2011 | 135 | 35 | 0.53 | 1.47 |
| 2012 | 130 | 36 | 0.53 | 1.48 |
| 2013 | 134 | 76 | 0.78 | 2.16 |
| 2014 | 75 | 55 | 0.51 | 1.41 |
| 2015 | 153 | 49 | 0.66 | 1.83 |
| 2016 | 230 | 30 | 0.73 | 2.03 |
| 2017 | 316 | 64 | 1.13 | 3.15 |
| 2018 | 105 | 66 | 0.65 | 1.82 |
| 2019 | 135 | 26 | 0.48 | 1.34 |

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# Table 9 - juvenile and adult salmon numbers (estim.), in-river return rate in the monitored rivers

Nota : juvenile fish are smolts, except in r. Nivelle (parrs O+). Adult numbers refer to the smolt year N: runs of N+1 and N+2 These are estimated trap-return numbers of wild fish except in 94-95 years in Nivelle when some stocked fish returned. Stocking is considered to adjust numbers

Table 9 - juvenile and adult salmon numbers (estim.) in-river return rate in the monitored rivers - Nivelle (2019)

|  |  |  |  |
| --- | --- | --- | --- |
| PARR 0+ year | 0+ parr | adults | survival rate (%) |
| 1984 | NA | 376 | NA |
| 1985 | 1318.0 | 223 | 16.92 |
| 1986 | 8058.0 | 189 | 2.35 |
| 1987 | 11821.5 | 296 | 2.50 |
| 1988 | 11095.5 | 329 | 2.97 |
| 1989 | 10734.0 | 222 | 2.07 |
| 1990 | 5831.5 | 255 | 4.37 |
| 1991 | 7046.5 | 519 | 7.37 |
| 1992 | 4935.0 | 392 | 7.94 |
| 1993 | 4705.0 | 228 | 4.85 |
| 1994 | 13846.0 | 180 | 1.30 |
| 1995 | 5974.0 | 124 | 2.08 |
| 1996 | 7243.5 | 195 | 2.69 |
| 1997 | 7608.0 | 177 | 2.33 |
| 1998 | 6908.5 | 163 | 2.36 |
| 1999 | 9994.0 | 226 | 2.26 |
| 2000 | 10969.0 | 452 | 4.12 |
| 2001 | 12417.5 | 50 | 0.40 |
| 2002 | 15458.0 | 103 | 0.67 |
| 2003 | 7129.5 | 120 | 1.68 |
| 2004 | 4433.0 | 64 | 1.44 |
| 2005 | 9562.0 | 93 | 0.97 |
| 2006 | 2478.0 | 82 | 3.31 |
| 2007 | 3098.5 | 76 | 2.45 |
| 2008 | 5102.0 | 191 | 3.74 |
| 2009 | 2783.0 | 59 | 2.12 |
| 2010 | 7254.5 | 117 | 1.61 |
| 2011 | 4748.5 | 135 | 2.84 |
| 2012 | 15522.5 | 114 | 0.73 |
| 2013 | 4700.0 | 77 | 1.64 |
| 2014 | 6864.0 | 76 | 1.11 |
| 2015 | 8270.0 | 109 | 1.32 |
| 2016 | 10262.5 | 53 | 0.52 |
| 2017 | 7186.0 | NA | NA |
| 2018 | 5595.0 | NA | NA |
| 2019 | 14020.5 | NA | NA |

Table 9 - juvenile and adult salmon numbers (estim.) in-river return rate in the monitored rivers - Oir (2019)

|  |  |  |  |
| --- | --- | --- | --- |
| smolt year | smolt | adults | survival rate (%) |
| 1984 | NA | 249 | NA |
| 1985 | NA | 79 | NA |
| 1986 | 744 | 238 | 31.99 |
| 1987 | 356 | 151 | 42.42 |
| 1988 | 413 | 197 | 47.70 |
| 1989 | 823 | 85 | 10.33 |
| 1990 | 805 | 54 | 6.71 |
| 1991 | 199 | 46 | 23.12 |
| 1992 | 673 | 115 | 17.09 |
| 1993 | 227 | 47 | 20.70 |
| 1994 | 575 | 148 | 25.74 |
| 1995 | 742 | 266 | 35.85 |
| 1996 | 998 | 54 | 5.41 |
| 1997 | 479 | 181 | 37.79 |
| 1998 | 1079 | 230 | 21.32 |
| 1999 | 261 | 242 | 92.72 |
| 2000 | 2162 | 211 | 9.76 |
| 2001 | 1368 | 314 | 22.95 |
| 2002 | 2364 | 255 | 10.79 |
| 2003 | 1232 | 349 | 28.33 |
| 2004 | 1230 | 175 | 14.23 |
| 2005 | 845 | 202 | 23.91 |
| 2006 | 1358 | 203 | 14.95 |
| 2007 | 954 | 119 | 12.47 |
| 2008 | 2161 | 164 | 7.59 |
| 2009 | 3393 | 542 | 15.97 |
| 2010 | 1414 | 255 | 18.03 |
| 2011 | 1803 | 265 | 14.70 |
| 2012 | 1361 | 315 | 23.14 |
| 2013 | 1295 | 267 | 20.62 |
| 2014 | 1576 | 153 | 9.71 |
| 2015 | 2310 | 317 | 13.72 |
| 2016 | 2004 | 255 | 12.72 |
| 2017 | 1657 | 220 | 13.28 |
| 2018 | 2219 | NA | NA |
| 2019 | 1236 | NA | NA |

Table 9 - juvenile and adult salmon numbers (estim.) in-river return rate in the monitored rivers - Bresle (2019)

|  |  |  |  |
| --- | --- | --- | --- |
| smolt year | smolt | adults | survival rate (%) |
| 1982 | 3586 | NA | NA |
| 1983 | 3680 | 94 | 2.55 |
| 1984 | 2679 | 136 | 5.08 |
| 1985 | 4518 | 213 | 4.71 |
| 1986 | 2000 | 164 | 8.20 |
| 1987 | 1655 | 138 | 8.34 |
| 1988 | NA | 223 | NA |
| 1989 | NA | 99 | NA |
| 1990 | NA | 204 | NA |
| 1991 | NA | 162 | NA |
| 1992 | 1685 | 66 | 3.92 |
| 1993 | 1743 | 52 | 2.98 |
| 1994 | 2455 | 141 | 5.74 |
| 1995 | 1837 | 50 | 2.72 |
| 1996 | 2089 | 46 | 2.20 |
| 1997 | 6294 | 283 | 4.50 |
| 1998 | 1680 | 42 | 2.50 |
| 1999 | 773 | 75 | 9.70 |
| 2000 | 1623 | 120 | 7.39 |
| 2001 | NA | 130 | NA |
| 2002 | 1859 | 43 | 2.31 |
| 2003 | 2961 | 133 | 4.49 |
| 2004 | 7608 | 381 | 5.01 |
| 2005 | 5233 | 128 | 2.45 |
| 2006 | 2742 | 88 | 3.21 |
| 2007 | 5490 | 179 | 3.26 |
| 2008 | 6630 | 131 | 1.98 |
| 2009 | 1144 | 171 | 14.95 |
| 2010 | 2932 | 171 | 5.83 |
| 2011 | 6427 | 206 | 3.21 |
| 2012 | 6400 | 189 | 2.95 |
| 2013 | 1874 | 124 | 6.62 |
| 2014 | 2608 | 183 | 7.02 |
| 2015 | 7522 | 294 | 3.91 |
| 2016 | 7796 | 382 | 4.90 |
| 2017 | 1501 | 131 | 8.73 |
| 2018 | 4301 | NA | NA |
| 2019 | 6609 | NA | NA |

Table 9 - juvenile and adult salmon numbers (estim.) in-river return rate in the monitored rivers - Scorff (2019)

|  |  |  |  |
| --- | --- | --- | --- |
| smolt year | smolt | adults | survival rate (%) |
| 1984 | NA | NA | NA |
| 1985 | NA | NA | NA |
| 1986 | NA | NA | NA |
| 1987 | NA | NA | NA |
| 1988 | NA | NA | NA |
| 1989 | NA | NA | NA |
| 1990 | NA | NA | NA |
| 1991 | NA | NA | NA |
| 1992 | NA | NA | NA |
| 1993 | NA | 483 | NA |
| 1994 | NA | 696 | NA |
| 1995 | 6237 | 597 | 9.57 |
| 1996 | 2005 | 424 | 21.15 |
| 1997 | 9964 | 556 | 5.58 |
| 1998 | 4775 | 233 | 4.88 |
| 1999 | 2612 | 301 | 11.52 |
| 2000 | 3174 | 295 | 9.29 |
| 2001 | 11980 | 593 | 4.95 |
| 2002 | 1244 | 277 | 22.27 |
| 2003 | 10120 | 1120 | 11.07 |
| 2004 | 7830 | 493 | 6.30 |
| 2005 | 10760 | 895 | 8.32 |
| 2006 | 7144 | 505 | 7.07 |
| 2007 | 7550 | 375 | 4.97 |
| 2008 | 10530 | 317 | 3.01 |
| 2009 | 13680 | 889 | 6.50 |
| 2010 | 10550 | 467 | 4.43 |
| 2011 | 8835 | 444 | 5.03 |
| 2012 | 8161 | 694 | 8.50 |
| 2013 | 8282 | 769 | 9.29 |
| 2014 | 10250 | 591 | 5.77 |
| 2015 | 6615 | 613 | 9.27 |
| 2016 | 9769 | 895 | 9.16 |
| 2017 | 6240 | 315 | 5.05 |
| 2018 | 4891 | NA | NA |
| 2019 | 5100 | NA | NA |

Table 3.3.6.1. Estimated survival of wild smolts (%) to return to homewaters (prior to coastal fisheries) for various monitored rivers in the NE Atlantic area.

|  |  |  |  |
| --- | --- | --- | --- |
| Bresle | Oir | Nivelle | Scorff |
| 5.08 | NA | NA | NA |
| 4.71 | NA | 16.92 | NA |
| 8.20 | 31.99 | 2.35 | NA |
| 8.34 | 42.42 | 2.50 | NA |
| NA | 47.70 | 2.97 | NA |
| NA | 10.33 | 2.07 | NA |
| NA | 6.71 | 4.37 | NA |
| NA | 23.12 | 7.37 | NA |
| 3.92 | 17.09 | 7.94 | NA |
| 2.98 | 20.70 | 4.85 | NA |
| 5.74 | 25.74 | 1.30 | NA |
| 2.72 | 35.85 | 2.08 | 9.57 |
| 2.20 | 5.41 | 2.69 | 21.15 |
| 4.50 | 37.79 | 2.33 | 5.58 |
| 2.50 | 21.32 | 2.36 | 4.88 |
| 9.70 | 92.72 | 2.26 | 11.52 |
| 7.39 | 9.76 | 4.12 | 9.29 |
| NA | 22.95 | 0.40 | 4.95 |
| 2.31 | 10.79 | 0.67 | 22.27 |
| 4.49 | 28.33 | 1.68 | 11.07 |
| 5.01 | 14.23 | 1.44 | 6.30 |
| 2.45 | 23.91 | 0.97 | 8.32 |
| 3.21 | 14.95 | 3.31 | 7.07 |
| 3.26 | 12.47 | 2.45 | 4.97 |
| 1.98 | 7.59 | 3.74 | 3.01 |
| 14.95 | 15.97 | 2.12 | 6.50 |
| 5.83 | 18.03 | 1.61 | 4.43 |
| 3.21 | 14.70 | 2.84 | 5.03 |
| 2.95 | 23.14 | 0.73 | 8.50 |
| 6.62 | 20.62 | 1.64 | 9.29 |
| 7.02 | 9.71 | 1.11 | 5.77 |
| 3.91 | 13.72 | 1.32 | 9.27 |
| 4.90 | 12.72 | 0.52 | 9.16 |
| 8.73 | 13.28 | NA | 5.05 |
| NA | NA | NA | NA |
| NA | NA | NA | NA |

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# Table 10 - Adult salmon captured at traps in the monitored rivers

Table 10 - Adult salmon captured (unmarked) at traps in the monitored rivers - Scorff (2019) Nota : We only considered fish captured at Moulin des Princes

|  |  |  |  |
| --- | --- | --- | --- |
| Years | 1SW | MSW | Total |
| 1994 | 157 | 7 | 164 |
| 1995 | 508 | 43 | 551 |
| 1996 | 507 | 31 | 538 |
| 1997 | 322 | 38 | 360 |
| 1998 | 442 | 9 | 451 |
| 1999 | 167 | 41 | 208 |
| 2000 | 151 | 11 | 162 |
| 2001 | 228 | 17 | 245 |
| 2002 | 420 | 7 | 427 |
| 2003 | 130 | 26 | 156 |
| 2004 | 761 | 33 | 794 |
| 2005 | 335 | 73 | 408 |
| 2006 | 662 | 39 | 701 |
| 2007 | 318 | 47 | 365 |
| 2008 | 190 | 29 | 219 |
| 2009 | 187 | 54 | 241 |
| 2010 | 533 | 34 | 567 |
| 2011 | 307 | 140 | 447 |
| 2012 | 227 | 56 | 283 |
| 2013 | 394 | 43 | 437 |
| 2014 | 433 | 76 | 509 |
| 2015 | 391 | 72 | 463 |
| 2016 | 386 | 39 | 425 |
| 2017 | 762 | 93 | 855 |
| 2018 | 199 | 44 | 243 |
| 2019 | 161 | 21 | 182 |

Table 10 - Adult salmon captured (unmarked) at traps in the monitored rivers - Bresle (2019)

|  |  |  |  |
| --- | --- | --- | --- |
| Years | 1SW | MSW | Total |
| 1984 | 45 | 27 | 72 |
| 1985 | 82 | 19 | 101 |
| 1986 | 124 | 20 | 144 |
| 1987 | 101 | 26 | 127 |
| 1988 | 54 | 12 | 66 |
| 1989 | NA | NA | NA |
| 1990 | 51 | 33 | 84 |
| 1991 | 121 | 19 | 140 |
| 1992 | 123 | 35 | 158 |
| 1993 | NA | NA | NA |
| 1994 | 27 | 6 | 33 |
| 1995 | 38 | 1 | 39 |
| 1996 | 21 | 18 | 39 |
| 1997 | 24 | 10 | 34 |
| 1998 | 181 | 11 | 192 |
| 1999 | 13 | 18 | 31 |
| 2000 | NA | NA | NA |
| 2001 | NA | NA | NA |
| 2002 | 68 | 17 | 85 |
| 2003 | 13 | 10 | 23 |
| 2004 | 52 | 10 | 62 |
| 2005 | 183 | 33 | 216 |
| 2006 | 79 | 72 | 151 |
| 2007 | 36 | 13 | 49 |
| 2008 | 82 | 4 | 86 |
| 2009 | 72 | 34 | 106 |
| 2010 | 108 | 27 | 135 |
| 2011 | 123 | 24 | 147 |
| 2012 | 99 | 24 | 123 |
| 2013 | 96 | 45 | 141 |
| 2014 | 64 | 30 | 94 |
| 2015 | 110 | 33 | 143 |
| 2016 | 128 | 15 | 143 |
| 2017 | 283 | 46 | 329 |
| 2018 | 76 | 30 | 106 |
| 2019 | 82 | 14 | 96 |

Table 10 - Adult salmon captured (unmarked) at traps in the monitored rivers - Nivelle (2019)

|  |  |  |  |
| --- | --- | --- | --- |
| Years | 1SW | MSW | Total |
| 1984 | 123 | 17 | 140 |
| 1985 | 62 | 36 | 98 |
| 1986 | 215 | 31 | 246 |
| 1987 | 142 | 36 | 178 |
| 1988 | 67 | 19 | 86 |
| 1989 | 151 | 36 | 187 |
| 1990 | 195 | 31 | 226 |
| 1991 | 113 | 33 | 146 |
| 1992 | 154 | 42 | 196 |
| 1993 | 339 | 30 | 369 |
| 1994 | 235 | 32 | 267 |
| 1995 | 150 | 35 | 185 |
| 1996 | 150 | 36 | 186 |
| 1997 | 101 | 10 | 111 |
| 1998 | 133 | 7 | 140 |
| 1999 | 115 | 21 | 136 |
| 2000 | 108 | 24 | 132 |
| 2001 | 144 | 18 | 162 |
| 2002 | 258 | 28 | 286 |
| 2003 | 23 | 50 | 73 |
| 2004 | 67 | 15 | 82 |
| 2005 | 63 | 10 | 73 |
| 2006 | 29 | 20 | 49 |
| 2007 | 47 | 11 | 58 |
| 2008 | 41 | 20 | 61 |
| 2009 | 38 | 16 | 54 |
| 2010 | 115 | 17 | 132 |
| 2011 | 35 | 34 | 69 |
| 2012 | 38 | 12 | 50 |
| 2013 | 63 | 34 | 97 |
| 2014 | 38 | 37 | 75 |
| 2015 | 30 | 27 | 57 |
| 2016 | 35 | 18 | 53 |
| 2017 | 57 | 13 | 70 |
| 2018 | 22 | 22 | 44 |
| 2019 | 83 | 13 | 96 |

Table 10 - Adult salmon captured (unmarked) at traps in the monitored rivers - Oir (2019)

|  |  |  |  |
| --- | --- | --- | --- |
| Years | 1SW | MSW | Total |
| 1984 | 151 | 27 | 178 |
| 1985 | 201 | 64 | 265 |
| 1986 | 72 | 57 | 129 |
| 1987 | 35 | 3 | 38 |
| 1988 | 151 | 75 | 226 |
| 1989 | 196 | 39 | 235 |
| 1990 | 22 | 8 | 30 |
| 1991 | 44 | 2 | 46 |
| 1992 | 30 | 5 | 35 |
| 1993 | 95 | 8 | 103 |
| 1994 | 33 | 4 | 37 |
| 1995 | 120 | 3 | 123 |
| 1996 | 127 | 3 | 130 |
| 1997 | 57 | 1 | 58 |
| 1998 | 60 | 6 | 66 |
| 1999 | 148 | 19 | 167 |
| 2000 | 81 | 6 | 87 |
| 2001 | 155 | 9 | 164 |
| 2002 | 129 | 19 | 148 |
| 2003 | 172 | 27 | 199 |
| 2004 | 246 | 45 | 291 |
| 2005 | 103 | 10 | 113 |
| 2006 | 126 | 25 | 151 |
| 2007 | 174 | 14 | 188 |
| 2008 | 45 | 9 | 54 |
| 2009 | 43 | 12 | 55 |
| 2010 | 224 | 7 | 231 |
| 2011 | 116 | 35 | 151 |
| 2012 | 72 | 19 | 91 |
| 2013 | 121 | 26 | 147 |
| 2014 | 89 | 19 | 108 |
| 2015 | 47 | 23 | 70 |
| 2016 | 170 | 18 | 188 |
| 2017 | 77 | 12 | 89 |
| 2018 | 72 | 14 | 86 |
| 2019 | 94 | 16 | 110 |



