**Table 6.1.1. Twenty-fifth percentile, median, and seventy-fifth percentile of the number of two sea-winter females across all Penobscot River production units in generations (Gen) 1–10 for 100, 500, 1,000, 5,000, and 10,000 model iterations under the Base Case scenario.**

| | Base Case - 100 | | | Base Case - 500 | | | Base Case - 1000 | | | Base Case - 5000 | | | Base Case - 10000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gen | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% |
| 1 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 |
| 2 | 48 | 119 | 291 | 50 | 131 | 299 | 50 | 118 | 325 | 51 | 124 | 329 | 50 | 122 | 339 |
| 3 | 51 | 116 | 299 | 46 | 122 | 317 | 47 | 125 | 338 | 51 | 122 | 323 | 49 | 120 | 330 |
| 4 | 53 | 124 | 346 | 47 | 121 | 357 | 53 | 121 | 325 | 51 | 119 | 344 | 51 | 122 | 323 |
| 5 | 49 | 122 | 339 | 53 | 127 | 319 | 49 | 120 | 327 | 52 | 118 | 324 | 51 | 120 | 331 |
| 6 | 48 | 106 | 352 | 47 | 117 | 352 | 52 | 124 | 315 | 51 | 120 | 329 | 50 | 120 | 329 |
| 7 | 54 | 123 | 293 | 51 | 121 | 341 | 49 | 122 | 321 | 50 | 119 | 330 | 51 | 122 | 328 |
| 8 | 44 | 137 | 324 | 50 | 119 | 326 | 48 | 121 | 328 | 52 | 121 | 327 | 51 | 120 | 330 |
| 9 | 57 | 140 | 281 | 51 | 122 | 329 | 53 | 121 | 325 | 51 | 121 | 329 | 50 | 121 | 330 |
| 10 | 54 | 146 | 303 | 50 | 122 | 312 | 52 | 117 | 326 | 52 | 119 | 324 | 50 | 122 | 321 |

**Table 6.1.2. Proportion of iterations when at least one two sea-winter female was present in three areas of the Penobscot River watershed: the Upper Penobscot (i.e., above West Enfield Dam), the Piscataquis (i.e., the Piscataquis River watershed), and the Lower Penobscot (i.e., below the West Enfield Dam). Values are listed for generations (Gen) 1–10 for 100, 500, 1,000, 5,000, and 10,000 model iterations under the Base Case scenario.**

| | Base Case - 100 | | | Base Case - 500 | | | Base Case - 1000 | | | Base Case - 5000 | | | Base Case - 10000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gen | Upper | Piscataquis | Lower | Upper | Piscataquis | Lower | Upper | Piscataquis | Lower | Upper | Piscataquis | Lower | Upper | Piscataquis | Lower |
| 1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 0.51 | 0.52 | 1.00 | 0.52 | 0.52 | 1.00 | 0.52 | 0.53 | 1.00 | 0.52 | 0.52 | 1.00 | 0.52 | 0.52 | 1.00 |
| 3 | 0.47 | 0.47 | 1.00 | 0.49 | 0.50 | 1.00 | 0.48 | 0.49 | 1.00 | 0.49 | 0.50 | 1.00 | 0.48 | 0.49 | 1.00 |
| 4 | 0.51 | 0.51 | 1.00 | 0.46 | 0.47 | 1.00 | 0.47 | 0.48 | 1.00 | 0.48 | 0.49 | 1.00 | 0.48 | 0.48 | 1.00 |
| 5 | 0.50 | 0.50 | 1.00 | 0.49 | 0.50 | 1.00 | 0.49 | 0.50 | 1.00 | 0.48 | 0.48 | 1.00 | 0.48 | 0.49 | 1.00 |
| 6 | 0.49 | 0.49 | 1.00 | 0.48 | 0.49 | 1.00 | 0.47 | 0.48 | 1.00 | 0.48 | 0.49 | 1.00 | 0.48 | 0.48 | 1.00 |
| 7 | 0.50 | 0.51 | 1.00 | 0.49 | 0.49 | 1.00 | 0.48 | 0.49 | 1.00 | 0.48 | 0.49 | 1.00 | 0.48 | 0.49 | 1.00 |
| 8 | 0.46 | 0.48 | 1.00 | 0.48 | 0.50 | 1.00 | 0.49 | 0.49 | 1.00 | 0.48 | 0.48 | 1.00 | 0.48 | 0.49 | 1.00 |
| 9 | 0.49 | 0.50 | 1.00 | 0.48 | 0.48 | 1.00 | 0.47 | 0.49 | 1.00 | 0.48 | 0.49 | 1.00 | 0.48 | 0.49 | 1.00 |
| 10 | 0.55 | 0.55 | 1.00 | 0.50 | 0.50 | 1.00 | 0.49 | 0.51 | 1.00 | 0.48 | 0.49 | 1.00 | 0.48 | 0.49 | 1.00 |

**Table 6.1.3. Twenty-fifth percentile, median, and seventy-fifth percentile of the number of smolts killed during emigration due to direct and indirect cumulative mortality associated with dam passage across the 15 modeled hydroelectric dams. Values are listed for generations (Gen) 1–10 for 100, 500, 1,000, 5,000, and 10,000 model iterations under the Base Case scenario.**

| | Base Case - 100 | | | Base Case - 500 | | | Base Case - 1000 | | | Base Case - 5000 | | | Base Case - 10000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gen | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% |
| 1 | 164,296 | 181,579 | 201,119 | 165,515 | 178,156 | 194,670 | 165,305 | 178,508 | 198,313 | 165,841 | 178,926 | 197,361 | 165,655 | 178,765 | 196,693 |
| 2 | 149,316 | 158,524 | 183,677 | 150,538 | 160,776 | 175,736 | 150,646 | 162,343 | 179,291 | 150,923 | 162,374 | 178,497 | 150,851 | 162,134 | 178,131 |
| 3 | 150,583 | 162,712 | 179,133 | 150,049 | 162,114 | 177,729 | 150,568 | 161,742 | 177,688 | 150,879 | 161,515 | 176,614 | 150,453 | 161,267 | 177,467 |
| 4 | 148,991 | 164,631 | 178,792 | 150,341 | 160,898 | 176,676 | 149,970 | 161,556 | 177,861 | 150,632 | 162,103 | 178,765 | 150,804 | 161,741 | 177,356 |
| 5 | 152,608 | 166,983 | 183,094 | 151,605 | 162,127 | 177,383 | 150,272 | 162,474 | 176,295 | 150,815 | 161,933 | 177,300 | 150,665 | 161,599 | 177,763 |
| 6 | 151,410 | 162,426 | 176,864 | 152,007 | 163,191 | 177,391 | 150,408 | 160,750 | 177,067 | 150,898 | 161,633 | 178,287 | 150,608 | 162,020 | 178,267 |
| 7 | 148,458 | 159,190 | 171,438 | 150,140 | 161,754 | 178,539 | 150,766 | 161,122 | 176,309 | 150,609 | 161,468 | 177,244 | 150,602 | 161,638 | 177,717 |
| 8 | 156,389 | 166,170 | 178,270 | 152,450 | 162,345 | 177,864 | 150,771 | 161,891 | 179,074 | 151,036 | 162,202 | 178,661 | 150,833 | 161,906 | 177,670 |
| 9 | 149,291 | 161,062 | 177,554 | 149,689 | 160,082 | 177,142 | 151,074 | 160,930 | 176,769 | 150,745 | 161,823 | 177,234 | 150,850 | 161,959 | 177,662 |
| 10 | 151,505 | 161,711 | 172,115 | 150,002 | 162,760 | 177,240 | 150,199 | 160,657 | 177,230 | 150,916 | 161,774 | 177,611 | 150,659 | 161,921 | 178,418 |

**Table 6.1.4. Twenty-fifth percentile, median, and seventy-fifth percentile of the proportion of smolts killed during emigration due to direct and indirect cumulative mortality associated with dam passage across the 15 modeled hydroelectric dams. Values are listed for generations (Gen) 1–10 for 100, 500, 1,000, 5,000, and 10,000 model iterations under the Base Case scenario.**

| | Base Case - 100 | | | Base Case - 500 | | | Base Case - 1000 | | | Base Case - 5000 | | | Base Case - 10000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gen | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% |
| 1 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 2 | 0.10 | 0.10 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 3 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 4 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 5 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 6 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 7 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 8 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 9 | 0.10 | 0.10 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |

**Table 6.1.5. Twenty-fifth percentile, median, and seventy-fifth percentile of the number of two sea-winter females across all Penobscot River production units in generations (Gen) 1–10 for 100, 500, 1,000, 5,000, and 10,000 model iterations under the Recovery scenario.**

| | Recovery - 100 | | | Recovery - 500 | | | Recovery - 1000 | | | Recovery - 5000 | | | Recovery - 10000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gen | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% |
| 1 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 587 |
| 2 | 528 | 1,086 | 2,000 | 549 | 1,027 | 2,125 | 514 | 1,025 | 2,131 | 525 | 1,057 | 2,091 | 521 | 1,043 | 2,098 |
| 3 | 874 | 2,057 | 3,865 | 906 | 1,815 | 4,131 | 950 | 1,886 | 3,783 | 909 | 1,891 | 3,925 | 927 | 1,922 | 3,850 |
| 4 | 1,080 | 2,293 | 4,396 | 1,158 | 2,624 | 5,113 | 1,223 | 2,442 | 4,966 | 1,242 | 2,483 | 4,813 | 1,249 | 2,480 | 4,848 |
| 5 | 1,273 | 2,779 | 5,647 | 1,391 | 2,616 | 5,057 | 1,393 | 2,725 | 5,228 | 1,408 | 2,730 | 5,286 | 1,400 | 2,723 | 5,228 |
| 6 | 1,680 | 2,820 | 4,734 | 1,455 | 2,786 | 5,404 | 1,556 | 2,837 | 5,368 | 1,496 | 2,859 | 5,454 | 1,497 | 2,845 | 5,455 |
| 7 | 1,479 | 2,965 | 5,442 | 1,386 | 2,874 | 5,364 | 1,528 | 2,874 | 5,675 | 1,478 | 2,924 | 5,508 | 1,501 | 2,880 | 5,552 |
| 8 | 1,373 | 2,713 | 6,240 | 1,489 | 2,730 | 5,601 | 1,456 | 2,926 | 5,566 | 1,538 | 2,894 | 5,528 | 1,523 | 2,917 | 5,576 |
| 9 | 1,529 | 3,019 | 5,209 | 1,580 | 2,882 | 5,360 | 1,481 | 2,914 | 5,553 | 1,518 | 2,894 | 5,607 | 1,518 | 2,920 | 5,576 |
| 10 | 1,588 | 2,856 | 5,487 | 1,472 | 2,965 | 5,731 | 1,532 | 2,865 | 5,720 | 1,531 | 2,941 | 5,660 | 1,526 | 2,916 | 5,525 |

**Table 6.1.6. Proportion of iterations when at least one two sea-winter female was present in three areas of the Penobscot River watershed: the Upper Penobscot (i.e., above West Enfield Dam), the Piscataquis (i.e., the Piscataquis River watershed), and the Lower Penobscot (i.e., below the West Enfield Dam). Values are listed for generations (Gen) 1–10 for 100, 500, 1,000, 5,000, and 10,000 model iterations under the Recovery scenario.**

| | Recovery - 100 | | | Recovery - 500 | | | Recovery - 1000 | | | Recovery - 5000 | | | Recovery - 10000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gen | Upper | Piscataquis | Lower | Upper | Piscataquis | Lower | Upper | Piscataquis | Lower | Upper | Piscataquis | Lower | Upper | Piscataquis | Lower |
| 1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 0.95 | 0.95 | 1.00 | 0.96 | 0.96 | 1.00 | 0.96 | 0.96 | 1.00 | 0.96 | 0.96 | 1.00 | 0.96 | 0.96 | 1.00 |
| 3 | 0.98 | 0.98 | 1.00 | 0.97 | 0.97 | 1.00 | 0.98 | 0.98 | 1.00 | 0.98 | 0.98 | 1.00 | 0.98 | 0.98 | 1.00 |
| 4 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.98 | 0.98 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 |
| 5 | 1.00 | 1.00 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 |
| 6 | 1.00 | 1.00 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 |
| 7 | 1.00 | 1.00 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 |
| 8 | 1.00 | 1.00 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 |
| 9 | 0.98 | 0.98 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 |
| 10 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 |

**Table 6.1.7. Twenty-fifth percentile, median, and seventy-fifth percentile of the number of smolts killed during emigration due to direct and indirect cumulative mortality associated with dam passage across the 15 modeled hydroelectric dams. Values are listed for generations (Gen) 1–10 for 100, 500, 1,000, 5,000, and 10,000 model iterations under the Recovery scenario.**

| | Recovery - 100 | | | Recovery - 500 | | | Recovery - 1000 | | | Recovery - 5000 | | | Recovery - 10000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gen | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% |
| 1 | 186,728 | 197,382 | 225,988 | 180,718 | 198,075 | 217,142 | 181,456 | 199,438 | 219,414 | 181,207 | 198,544 | 219,982 | 180,967 | 198,149 | 220,630 |
| 2 | 165,379 | 192,416 | 227,715 | 166,187 | 186,830 | 216,403 | 166,415 | 187,385 | 219,581 | 166,953 | 187,430 | 219,594 | 166,649 | 188,136 | 220,666 |
| 3 | 170,352 | 195,301 | 229,819 | 171,038 | 193,587 | 231,832 | 171,545 | 193,528 | 225,195 | 171,055 | 192,816 | 228,268 | 170,799 | 193,109 | 228,835 |
| 4 | 175,061 | 193,130 | 241,535 | 173,003 | 198,872 | 240,449 | 174,296 | 196,982 | 236,311 | 174,162 | 198,402 | 236,743 | 173,809 | 197,835 | 235,693 |
| 5 | 175,820 | 199,110 | 227,703 | 173,511 | 200,685 | 240,098 | 176,597 | 198,651 | 237,064 | 175,577 | 201,414 | 240,414 | 174,936 | 199,026 | 238,784 |
| 6 | 180,068 | 197,126 | 240,943 | 175,183 | 201,780 | 239,626 | 179,328 | 203,794 | 241,721 | 176,644 | 200,124 | 238,869 | 176,313 | 201,241 | 240,914 |
| 7 | 179,011 | 201,412 | 236,854 | 174,810 | 199,394 | 239,665 | 176,175 | 203,189 | 239,400 | 175,734 | 200,952 | 242,706 | 176,706 | 201,253 | 242,435 |
| 8 | 182,028 | 206,381 | 253,974 | 175,356 | 199,293 | 243,710 | 177,115 | 202,271 | 239,218 | 176,368 | 201,284 | 239,874 | 176,727 | 201,919 | 241,450 |
| 9 | 172,442 | 201,709 | 232,023 | 175,084 | 202,508 | 242,171 | 178,903 | 201,601 | 238,775 | 176,467 | 202,536 | 242,691 | 176,133 | 200,938 | 242,716 |
| 10 | 177,349 | 200,455 | 227,702 | 176,172 | 203,717 | 241,273 | 178,014 | 202,286 | 239,632 | 176,594 | 201,486 | 243,378 | 176,167 | 201,416 | 241,642 |

**Table 6.1.8. Twenty-fifth percentile, median, and seventy-fifth percentile of the proportion of smolts killed during emigration due to direct and indirect cumulative mortality associated with dam passage across the 15 modeled hydroelectric dams. Values are listed for generations (Gen) 1–10 for 100, 500, 1,000, 5,000, and 10,000 model iterations under the Recovery scenario.**

| | Recovery - 100 | | | Recovery - 500 | | | Recovery - 1000 | | | Recovery - 5000 | | | Recovery - 10000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gen | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% | 25% | median | 75% |
| 1 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 2 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 3 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 4 | 0.10 | 0.11 | 0.11 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 5 | 0.10 | 0.11 | 0.11 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 6 | 0.10 | 0.11 | 0.11 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 7 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |
| 8 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 |
| 9 | 0.10 | 0.10 | 0.11 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.12 |
| 10 | 0.10 | 0.11 | 0.12 | 0.10 | 0.10 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 | 0.10 | 0.11 | 0.12 |