All SR SIT DSM Summary Tables - BA Act5

2025-07-29

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## BA

### Population Abundance, Growth

**Table** **:** Table BA.1. Predicted annual total spring-run spawner abundance in the Central Valley, including both natural- and hatchery-origin fish.

| Year | EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1980 | 14889 | 14887 | 14886 | 14886 | 14886 | 14886 | 14886 | 14886 |
| 1981 | 13041 | 13045 | 13045 | 13045 | 13045 | 13045 | 13045 | 13045 |
| 1982 | 13242 | 13139 | 13094 | 13097 | 13098 | 13108 | 13134 | 13132 |
| 1983 | 16213 | 15968 | 15808 | 15819 | 15819 | 15838 | 15883 | 15881 |
| 1984 | 16135 | 15952 | 15749 | 15759 | 15759 | 15766 | 15779 | 15781 |
| 1985 | 14933 | 14816 | 14600 | 14604 | 14604 | 14602 | 14596 | 14597 |
| 1986 | 13255 | 13111 | 12862 | 12861 | 12861 | 12856 | 12866 | 12856 |
| 1987 | 14743 | 14676 | 14297 | 14338 | 14338 | 14331 | 14365 | 14291 |
| 1988 | 20008 | 19998 | 19576 | 19664 | 19664 | 19666 | 19723 | 19602 |
| 1989 | 18408 | 18325 | 18234 | 18289 | 18289 | 18305 | 18358 | 18308 |
| 1990 | 13716 | 13517 | 13536 | 13551 | 13552 | 13593 | 13604 | 13659 |
| 1991 | 14492 | 14127 | 13976 | 14019 | 14018 | 14068 | 14075 | 14174 |
| 1992 | 15958 | 15444 | 15275 | 15454 | 15397 | 15457 | 15494 | 15511 |
| 1993 | 16758 | 16202 | 16086 | 16381 | 16238 | 16313 | 16331 | 16249 |
| 1994 | 18607 | 18142 | 18044 | 18216 | 18119 | 18118 | 18116 | 18083 |
| 1995 | 17255 | 16976 | 16891 | 16892 | 16903 | 16838 | 16842 | 16872 |
| 1996 | 15057 | 14826 | 14757 | 14746 | 14766 | 14729 | 14747 | 14756 |
| 1997 | 18618 | 18270 | 18116 | 18122 | 18121 | 18112 | 18125 | 18138 |
| 1998 | 19919 | 19592 | 19404 | 19404 | 19403 | 19401 | 19398 | 19436 |
| 1999 | 18239 | 18032 | 17936 | 17940 | 17939 | 17941 | 17938 | 17963 |

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**Table** **:** Table BA.2. Predicted annual natural-origin spring-run spawner abundance in the Central Valley.

| Year | EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1980 | 9565 | 9563 | 9561 | 9562 | 9562 | 9562 | 9562 | 9561 |
| 1981 | 7709 | 7711 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 |
| 1982 | 7919 | 7816 | 7771 | 7774 | 7775 | 7785 | 7811 | 7809 |
| 1983 | 10890 | 10645 | 10485 | 10496 | 10496 | 10515 | 10560 | 10558 |
| 1984 | 10811 | 10628 | 10424 | 10434 | 10434 | 10441 | 10455 | 10456 |
| 1985 | 9600 | 9483 | 9267 | 9271 | 9271 | 9269 | 9262 | 9263 |
| 1986 | 7932 | 7788 | 7539 | 7538 | 7538 | 7533 | 7543 | 7533 |
| 1987 | 9411 | 9342 | 8964 | 9004 | 9005 | 8998 | 9032 | 8958 |
| 1988 | 14674 | 14664 | 14243 | 14331 | 14331 | 14333 | 14389 | 14269 |
| 1989 | 13075 | 12991 | 12901 | 12956 | 12956 | 12972 | 13024 | 12975 |
| 1990 | 8387 | 8187 | 8206 | 8221 | 8222 | 8263 | 8274 | 8329 |
| 1991 | 9159 | 8794 | 8643 | 8686 | 8685 | 8734 | 8742 | 8841 |
| 1992 | 10625 | 10111 | 9942 | 10121 | 10064 | 10124 | 10161 | 10178 |
| 1993 | 11433 | 10878 | 10762 | 11056 | 10913 | 10988 | 11007 | 10924 |
| 1994 | 13274 | 12807 | 12710 | 12882 | 12785 | 12784 | 12782 | 12749 |
| 1995 | 11932 | 11653 | 11568 | 11569 | 11580 | 11515 | 11519 | 11549 |
| 1996 | 9734 | 9501 | 9434 | 9423 | 9443 | 9406 | 9424 | 9433 |
| 1997 | 13289 | 12945 | 12791 | 12798 | 12797 | 12787 | 12801 | 12813 |
| 1998 | 14596 | 14269 | 14081 | 14081 | 14080 | 14078 | 14075 | 14113 |
| 1999 | 12915 | 12707 | 12611 | 12615 | 12614 | 12616 | 12613 | 12638 |

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**Table** **:** Table BA.3. Predicted mean lambda (Nt+1/Nt) for total spring-run spawner abundance in the Central Valley, including both natural- and hatchery-origin fish.

| WYT | EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C | 1.074 | 1.072 | 1.072 | 1.072 | 1.072 | 1.072 | 1.072 | 1.073 |
| D | 0.958 | 0.960 | 0.962 | 0.962 | 0.962 | 0.962 | 0.962 | 0.962 |
| AN | 1.050 | 1.049 | 1.053 | 1.060 | 1.055 | 1.055 | 1.054 | 1.048 |
| W | 1.016 | 1.016 | 1.013 | 1.013 | 1.013 | 1.013 | 1.013 | 1.014 |
| All | 1.011 | 1.010 | 1.010 | 1.010 | 1.010 | 1.010 | 1.010 | 1.010 |

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**Table** **:** Table BA.4. Predicted end lambda (Nt=19/Nt=1) for total spring-run spawner abundance in the Central Valley, including both natural- and hatchery-origin fish.

| EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1.225 | 1.211 | 1.205 | 1.205 | 1.205 | 1.205 | 1.205 | 1.207 |

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### Demographic Parameters

**Table** **:** Table BA.5. Predicted small juvenile rearing survival for spring-run Chinook salmon in the Upper Sacramento River.

| WYT | Month | Act5 | Alt2wTUCPwoVA | Alt2woTUCPAllVA | Alt2woTUCPDeltaVA | Alt2woTUCPwoVA | EXP1 | EXP3 | NAA |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02191478 |
| All | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02206580 |
| All | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02210606 |
| All | 2 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.021 | 0.020 | 0.02049357 |
| All | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02035753 |
| All | 4 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.01917691 |
| All | 5 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.013 | 0.019 | 0.01868488 |
| C | 11 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02179779 |
| C | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02205600 |
| C | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02209912 |
| C | 2 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02048847 |
| C | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02010392 |
| C | 4 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.018 | 0.018 | 0.01875133 |
| C | 5 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.009 | 0.018 | 0.01943284 |
| D | 11 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02195906 |
| D | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02204220 |
| D | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02209915 |
| D | 2 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.021 | 0.020 | 0.02048267 |
| D | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02042221 |
| D | 4 | 0.019 | 0.018 | 0.018 | 0.019 | 0.018 | 0.019 | 0.018 | 0.01832143 |
| D | 5 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.004 | 0.019 | 0.01779668 |
| AN | 11 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.022 | 0.022 | 0.02159837 |
| AN | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02206766 |
| AN | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02211275 |
| AN | 2 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.02050292 |
| AN | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02048450 |
| AN | 4 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.020 | 0.01945800 |
| AN | 5 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.01884448 |
| W | 11 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02203041 |
| W | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02208132 |
| W | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02211151 |
| W | 2 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02049918 |
| W | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02044146 |
| W | 4 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.01973109 |
| W | 5 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.018 | 0.019 | 0.01862864 |

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**Table** **:** Table BA.6. Predicted smolt migratory survival for spring-run Chinook salmon in the Upper-mid Sacramento River.

| WYT | Month | EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997498 |
| All | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996149 |
| All | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996283 |
| All | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997391 |
| All | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998603 |
| All | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997726 |
| All | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996606 |
| C | 11 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996522 |
| C | 12 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.9994067 |
| C | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9995799 |
| C | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997004 |
| C | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998134 |
| C | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996975 |
| C | 5 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996337 |
| D | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997315 |
| D | 12 | 1.000 | 1.000 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.9994919 |
| D | 1 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.9993748 |
| D | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996641 |
| D | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998341 |
| D | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997649 |
| D | 5 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996526 |
| AN | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997162 |
| AN | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996980 |
| AN | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997049 |
| AN | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997833 |
| AN | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9999432 |
| AN | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997925 |
| AN | 5 | 1.000 | 0.999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996434 |
| W | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998197 |
| W | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997669 |
| W | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997507 |
| W | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997840 |
| W | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998796 |
| W | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998133 |
| W | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996828 |

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**Table** **:** Table BA.7. Predicted smolt migratory survival for spring-run Chinook salmon in the Lower-mid Sacramento River.

| WYT | Month | EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998265 |
| All | 12 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996815 |
| All | 1 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996595 |
| All | 2 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997746 |
| All | 3 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998857 |
| All | 4 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998384 |
| All | 5 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998565 |
| C | 11 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997597 |
| C | 12 | 1 | 1.000 | 0.999 | 0.999 | 1.000 | 1.000 | 0.999 | 0.9995100 |
| C | 1 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9995926 |
| C | 2 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997199 |
| C | 3 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998291 |
| C | 4 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997607 |
| C | 5 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998054 |
| D | 11 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998213 |
| D | 12 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9995790 |
| D | 1 | 1 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.9994272 |
| D | 2 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996890 |
| D | 3 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998532 |
| D | 4 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998355 |
| D | 5 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998677 |
| AN | 11 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998056 |
| AN | 12 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997517 |
| AN | 1 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997308 |
| AN | 2 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998214 |
| AN | 3 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9999544 |
| AN | 4 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998594 |
| AN | 5 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998436 |
| W | 11 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998705 |
| W | 12 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998067 |
| W | 1 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997841 |
| W | 2 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998327 |
| W | 3 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9999163 |
| W | 4 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998781 |
| W | 5 | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998827 |

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**Table** **:** Table BA.8. Predicted smolt migratory survival for spring-run Chinook salmon in the Lower Sacramento River.

| WYT | Month | EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998396 |
| All | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997095 |
| All | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997281 |
| All | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998151 |
| All | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999034 |
| All | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998486 |
| All | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998963 |
| C | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997727 |
| C | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9995124 |
| C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9996251 |
| C | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997159 |
| C | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998332 |
| C | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997746 |
| C | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998547 |
| D | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998431 |
| D | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9996835 |
| D | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9995829 |
| D | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997249 |
| D | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998599 |
| D | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998542 |
| D | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999072 |
| AN | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998161 |
| AN | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997679 |
| AN | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997489 |
| AN | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999000 |
| AN | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999735 |
| AN | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998656 |
| AN | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998836 |
| W | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998804 |
| W | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998175 |
| W | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998453 |
| W | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998915 |
| W | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999461 |
| W | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998834 |
| W | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999174 |

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**Table** **:** Table BA.9. Predicted smolt migratory survival for spring-run Chinook salmon in the North Delta.

| WYT | Month | EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 0.912 | 0.921 | 0.919 | 0.920 | 0.919 | 0.920 | 0.920 | 0.9200278 |
| All | 12 | 0.922 | 0.923 | 0.920 | 0.920 | 0.921 | 0.920 | 0.920 | 0.9205473 |
| All | 1 | 0.924 | 0.924 | 0.923 | 0.923 | 0.923 | 0.922 | 0.923 | 0.9232121 |
| All | 2 | 0.931 | 0.930 | 0.930 | 0.929 | 0.929 | 0.929 | 0.929 | 0.9291782 |
| All | 3 | 0.932 | 0.930 | 0.930 | 0.930 | 0.930 | 0.930 | 0.930 | 0.9299986 |
| All | 4 | 0.926 | 0.922 | 0.922 | 0.924 | 0.923 | 0.924 | 0.924 | 0.9236611 |
| All | 5 | 0.913 | 0.917 | 0.919 | 0.919 | 0.919 | 0.919 | 0.920 | 0.9196585 |
| C | 11 | 0.899 | 0.916 | 0.911 | 0.913 | 0.911 | 0.914 | 0.914 | 0.9134193 |
| C | 12 | 0.913 | 0.916 | 0.912 | 0.912 | 0.913 | 0.912 | 0.912 | 0.9118622 |
| C | 1 | 0.913 | 0.915 | 0.916 | 0.917 | 0.915 | 0.914 | 0.917 | 0.9169973 |
| C | 2 | 0.926 | 0.925 | 0.926 | 0.926 | 0.926 | 0.925 | 0.926 | 0.9245824 |
| C | 3 | 0.927 | 0.924 | 0.924 | 0.924 | 0.924 | 0.925 | 0.924 | 0.9247258 |
| C | 4 | 0.918 | 0.913 | 0.912 | 0.917 | 0.915 | 0.917 | 0.918 | 0.9157999 |
| C | 5 | 0.901 | 0.909 | 0.910 | 0.912 | 0.912 | 0.912 | 0.913 | 0.9130471 |
| D | 11 | 0.913 | 0.921 | 0.921 | 0.920 | 0.920 | 0.921 | 0.921 | 0.9196356 |
| D | 12 | 0.919 | 0.919 | 0.917 | 0.918 | 0.918 | 0.917 | 0.917 | 0.9179579 |
| D | 1 | 0.918 | 0.917 | 0.914 | 0.915 | 0.915 | 0.915 | 0.915 | 0.9141647 |
| D | 2 | 0.927 | 0.925 | 0.923 | 0.923 | 0.923 | 0.923 | 0.923 | 0.9229934 |
| D | 3 | 0.931 | 0.930 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.9276214 |
| D | 4 | 0.923 | 0.917 | 0.919 | 0.919 | 0.919 | 0.920 | 0.921 | 0.9209553 |
| D | 5 | 0.894 | 0.910 | 0.917 | 0.917 | 0.917 | 0.917 | 0.917 | 0.9167985 |
| AN | 11 | 0.900 | 0.914 | 0.916 | 0.917 | 0.917 | 0.917 | 0.918 | 0.9163272 |
| AN | 12 | 0.920 | 0.924 | 0.917 | 0.917 | 0.917 | 0.917 | 0.917 | 0.9202431 |
| AN | 1 | 0.931 | 0.930 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.9282922 |
| AN | 2 | 0.935 | 0.934 | 0.934 | 0.934 | 0.934 | 0.934 | 0.934 | 0.9338500 |
| AN | 3 | 0.935 | 0.935 | 0.934 | 0.934 | 0.934 | 0.934 | 0.934 | 0.9340925 |
| AN | 4 | 0.931 | 0.927 | 0.927 | 0.927 | 0.927 | 0.927 | 0.927 | 0.9273398 |
| AN | 5 | 0.926 | 0.921 | 0.921 | 0.921 | 0.921 | 0.921 | 0.922 | 0.9219497 |
| W | 11 | 0.922 | 0.924 | 0.925 | 0.924 | 0.924 | 0.924 | 0.924 | 0.9246959 |
| W | 12 | 0.928 | 0.928 | 0.927 | 0.927 | 0.927 | 0.927 | 0.927 | 0.9265907 |
| W | 1 | 0.931 | 0.930 | 0.929 | 0.929 | 0.929 | 0.929 | 0.929 | 0.9295568 |
| W | 2 | 0.934 | 0.934 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.9334421 |
| W | 3 | 0.934 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.9330748 |
| W | 4 | 0.931 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.9284134 |
| W | 5 | 0.926 | 0.924 | 0.924 | 0.924 | 0.924 | 0.924 | 0.924 | 0.9240935 |

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**Table** **:** Table BA.10. Predicted smolt migratory survival for spring-run Chinook salmon in the South Delta.

| WYT | Month | EXP1 | EXP3 | NAA | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Act5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 0.301 | 0.326 | 0.329 | 0.330 | 0.329 | 0.333 | 0.332 | 0.3298108 |
| All | 12 | 0.402 | 0.411 | 0.379 | 0.381 | 0.383 | 0.380 | 0.379 | 0.3839326 |
| All | 1 | 0.455 | 0.446 | 0.438 | 0.442 | 0.438 | 0.438 | 0.442 | 0.4413519 |
| All | 2 | 0.487 | 0.467 | 0.470 | 0.469 | 0.469 | 0.463 | 0.469 | 0.4640654 |
| All | 3 | 0.505 | 0.475 | 0.469 | 0.467 | 0.468 | 0.469 | 0.468 | 0.4698004 |
| All | 4 | 0.422 | 0.360 | 0.365 | 0.372 | 0.369 | 0.372 | 0.378 | 0.3731113 |
| All | 5 | 0.343 | 0.331 | 0.345 | 0.347 | 0.347 | 0.346 | 0.349 | 0.3489942 |
| C | 11 | 0.205 | 0.258 | 0.251 | 0.254 | 0.253 | 0.257 | 0.253 | 0.2573367 |
| C | 12 | 0.295 | 0.302 | 0.278 | 0.278 | 0.286 | 0.279 | 0.277 | 0.2786249 |
| C | 1 | 0.330 | 0.321 | 0.323 | 0.333 | 0.319 | 0.319 | 0.334 | 0.3333093 |
| C | 2 | 0.374 | 0.349 | 0.366 | 0.361 | 0.362 | 0.340 | 0.362 | 0.3429583 |
| C | 3 | 0.401 | 0.338 | 0.346 | 0.342 | 0.342 | 0.347 | 0.344 | 0.3501440 |
| C | 4 | 0.284 | 0.244 | 0.248 | 0.275 | 0.261 | 0.272 | 0.279 | 0.2661660 |
| C | 5 | 0.239 | 0.245 | 0.250 | 0.259 | 0.259 | 0.258 | 0.266 | 0.2656341 |
| D | 11 | 0.308 | 0.320 | 0.324 | 0.319 | 0.319 | 0.331 | 0.330 | 0.3145642 |
| D | 12 | 0.342 | 0.351 | 0.323 | 0.331 | 0.331 | 0.323 | 0.322 | 0.3294718 |
| D | 1 | 0.352 | 0.336 | 0.324 | 0.331 | 0.331 | 0.331 | 0.330 | 0.3229595 |
| D | 2 | 0.400 | 0.343 | 0.343 | 0.342 | 0.342 | 0.341 | 0.340 | 0.3398873 |
| D | 3 | 0.488 | 0.455 | 0.412 | 0.413 | 0.413 | 0.413 | 0.414 | 0.4144992 |
| D | 4 | 0.361 | 0.287 | 0.310 | 0.310 | 0.310 | 0.313 | 0.329 | 0.3219523 |
| D | 5 | 0.222 | 0.253 | 0.308 | 0.306 | 0.306 | 0.300 | 0.301 | 0.3030333 |
| AN | 11 | 0.221 | 0.246 | 0.272 | 0.290 | 0.287 | 0.290 | 0.292 | 0.2750910 |
| AN | 12 | 0.348 | 0.389 | 0.308 | 0.306 | 0.305 | 0.306 | 0.306 | 0.3384759 |
| AN | 1 | 0.536 | 0.530 | 0.492 | 0.495 | 0.496 | 0.494 | 0.497 | 0.4957151 |
| AN | 2 | 0.576 | 0.573 | 0.566 | 0.565 | 0.565 | 0.565 | 0.565 | 0.5654905 |
| AN | 3 | 0.569 | 0.564 | 0.559 | 0.554 | 0.559 | 0.553 | 0.550 | 0.5551765 |
| AN | 4 | 0.501 | 0.410 | 0.402 | 0.399 | 0.401 | 0.399 | 0.411 | 0.4123588 |
| AN | 5 | 0.403 | 0.337 | 0.342 | 0.341 | 0.341 | 0.340 | 0.351 | 0.3536070 |
| W | 11 | 0.370 | 0.384 | 0.388 | 0.386 | 0.386 | 0.386 | 0.385 | 0.3890104 |
| W | 12 | 0.500 | 0.504 | 0.477 | 0.477 | 0.477 | 0.477 | 0.477 | 0.4767431 |
| W | 1 | 0.553 | 0.546 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.5419136 |
| W | 2 | 0.569 | 0.565 | 0.564 | 0.564 | 0.564 | 0.564 | 0.564 | 0.5639985 |
| W | 3 | 0.556 | 0.540 | 0.542 | 0.542 | 0.542 | 0.542 | 0.542 | 0.5418820 |
| W | 4 | 0.507 | 0.445 | 0.446 | 0.447 | 0.447 | 0.447 | 0.447 | 0.4465411 |
| W | 5 | 0.442 | 0.412 | 0.415 | 0.416 | 0.416 | 0.415 | 0.415 | 0.4147073 |

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