All SR SIT DSM Summary Tables - EIS

2024-09-26

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## EIS

### Population Abundance, Growth

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

| Year | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1980 | 14888 | 14882 | 14889 | 14889 | 14888 | 14888 | 14890 | 14881 |
| 1981 | 13045 | 13048 | 13046 | 13046 | 13046 | 13046 | 13043 | 13046 |
| 1982 | 13095 | 13118 | 13097 | 13097 | 13108 | 13134 | 13114 | 13125 |
| 1983 | 15807 | 15867 | 15817 | 15817 | 15837 | 15886 | 15888 | 15876 |
| 1984 | 15748 | 15788 | 15758 | 15758 | 15765 | 15778 | 15823 | 15787 |
| 1985 | 14598 | 14609 | 14602 | 14602 | 14600 | 14594 | 14660 | 14608 |
| 1986 | 12859 | 12860 | 12859 | 12859 | 12854 | 12864 | 12917 | 12855 |
| 1987 | 14295 | 14325 | 14337 | 14337 | 14330 | 14364 | 14434 | 14271 |
| 1988 | 19578 | 19605 | 19665 | 19665 | 19667 | 19722 | 19850 | 19548 |
| 1989 | 18233 | 18176 | 18287 | 18287 | 18303 | 18357 | 18452 | 18225 |
| 1990 | 13540 | 13512 | 13554 | 13555 | 13596 | 13607 | 13631 | 13569 |
| 1991 | 13973 | 14029 | 14019 | 14018 | 14070 | 14078 | 14210 | 14055 |
| 1992 | 15275 | 15379 | 15454 | 15401 | 15458 | 15495 | 15731 | 15395 |
| 1993 | 16087 | 16256 | 16381 | 16236 | 16316 | 16334 | 16459 | 16194 |
| 1994 | 18042 | 18148 | 18217 | 18117 | 18116 | 18117 | 18209 | 18088 |
| 1995 | 16889 | 16874 | 16891 | 16903 | 16836 | 16841 | 16995 | 16878 |
| 1996 | 14759 | 14726 | 14747 | 14769 | 14727 | 14745 | 14871 | 14741 |
| 1997 | 18116 | 18135 | 18123 | 18120 | 18113 | 18124 | 18249 | 18123 |
| 1998 | 19405 | 19435 | 19402 | 19405 | 19401 | 19398 | 19547 | 19424 |
| 1999 | 17937 | 17934 | 17940 | 17940 | 17942 | 17940 | 18048 | 17956 |

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

| Year | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1980 | 9562 | 9557 | 9566 | 9566 | 9562 | 9563 | 9566 | 9559 |
| 1981 | 7713 | 7714 | 7713 | 7713 | 7714 | 7713 | 7711 | 7713 |
| 1982 | 7773 | 7796 | 7776 | 7776 | 7786 | 7811 | 7792 | 7802 |
| 1983 | 10483 | 10544 | 10494 | 10494 | 10515 | 10565 | 10564 | 10555 |
| 1984 | 10424 | 10465 | 10433 | 10433 | 10440 | 10453 | 10498 | 10460 |
| 1985 | 9263 | 9275 | 9268 | 9268 | 9267 | 9261 | 9329 | 9274 |
| 1986 | 7536 | 7539 | 7535 | 7535 | 7531 | 7541 | 7595 | 7533 |
| 1987 | 8961 | 8991 | 9004 | 9004 | 8996 | 9029 | 9102 | 8938 |
| 1988 | 14247 | 14272 | 14330 | 14330 | 14332 | 14388 | 14517 | 14215 |
| 1989 | 12898 | 12843 | 12953 | 12953 | 12969 | 13021 | 13119 | 12891 |
| 1990 | 8210 | 8182 | 8225 | 8226 | 8266 | 8278 | 8301 | 8238 |
| 1991 | 8639 | 8695 | 8688 | 8688 | 8738 | 8745 | 8874 | 8721 |
| 1992 | 9941 | 10047 | 10123 | 10067 | 10127 | 10161 | 10399 | 10060 |
| 1993 | 10764 | 10930 | 11058 | 10909 | 10990 | 11011 | 11134 | 10869 |
| 1994 | 12707 | 12816 | 12885 | 12784 | 12782 | 12784 | 12876 | 12754 |
| 1995 | 11564 | 11550 | 11567 | 11579 | 11514 | 11518 | 11673 | 11556 |
| 1996 | 9436 | 9405 | 9426 | 9446 | 9405 | 9425 | 9548 | 9419 |
| 1997 | 12791 | 12811 | 12798 | 12796 | 12788 | 12801 | 12924 | 12799 |
| 1998 | 14081 | 14110 | 14081 | 14081 | 14078 | 14075 | 14222 | 14103 |
| 1999 | 12613 | 12611 | 12617 | 12616 | 12618 | 12615 | 12724 | 12631 |

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**Table** **:** Table EIS.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 | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C | 1.072 | 1.072 | 1.072 | 1.072 | 1.072 | 1.072 | 1.074 | 1.072 |
| D | 0.962 | 0.961 | 0.962 | 0.962 | 0.962 | 0.962 | 0.962 | 0.961 |
| AN | 1.053 | 1.057 | 1.060 | 1.055 | 1.055 | 1.054 | 1.047 | 1.052 |
| W | 1.013 | 1.013 | 1.013 | 1.013 | 1.013 | 1.013 | 1.014 | 1.014 |
| All | 1.010 | 1.010 | 1.010 | 1.010 | 1.010 | 1.010 | 1.010 | 1.010 |

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**Table** **:** Table EIS.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.

| NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1.205 | 1.205 (0) | 1.205 (0) | 1.205 (0) | 1.205 (0) | 1.205 (0) | 1.212 (0.6) | 1.206 (0.1) |

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### Demographic Parameters

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

| WYT | Month | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02195056 |
| All | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02203990 |
| All | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02210708 |
| All | 2 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.021 | 0.02049189 |
| All | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02036345 |
| All | 4 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.01925991 |
| All | 5 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.01884529 |
| C | 11 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02194703 |
| C | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02200818 |
| C | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02210069 |
| C | 2 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02048491 |
| C | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02011296 |
| C | 4 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.01887883 |
| C | 5 | 0.019 | 0.019 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.01952989 |
| D | 11 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02195712 |
| D | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02201845 |
| D | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02209899 |
| D | 2 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02047728 |
| D | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02043862 |
| D | 4 | 0.018 | 0.019 | 0.018 | 0.018 | 0.019 | 0.018 | 0.019 | 0.01857468 |
| D | 5 | 0.018 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.01790020 |
| AN | 11 | 0.022 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.02161395 |
| AN | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02205574 |
| AN | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02211400 |
| AN | 2 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.02050396 |
| AN | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02048514 |
| AN | 4 | 0.019 | 0.020 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.01945712 |
| AN | 5 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.01914700 |
| W | 11 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02202441 |
| W | 12 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02206353 |
| W | 1 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.02211269 |
| W | 2 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.021 | 0.02049959 |
| W | 3 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.02044216 |
| W | 4 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.01973233 |
| W | 5 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.01881796 |

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

| WYT | Month | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997448 |
| All | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996159 |
| All | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996211 |
| All | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997474 |
| All | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998523 |
| All | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997673 |
| All | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996570 |
| C | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996341 |
| 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 | 0.9995601 |
| C | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997334 |
| C | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997749 |
| C | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996560 |
| C | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9995992 |
| D | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997244 |
| D | 12 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.9994810 |
| D | 1 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.9993756 |
| D | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996643 |
| D | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998417 |
| D | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998025 |
| D | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997143 |
| AN | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997811 |
| AN | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997321 |
| AN | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996788 |
| 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 | 0.9999435 |
| AN | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997509 |
| AN | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9995697 |
| W | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998072 |
| W | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997663 |
| W | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997512 |
| W | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997841 |
| 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 | 0.9998171 |
| W | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996830 |

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

| WYT | Month | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998196 |
| All | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996826 |
| All | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996517 |
| All | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997825 |
| All | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998782 |
| All | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998345 |
| All | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998562 |
| C | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997342 |
| C | 12 | 0.999 | 1.000 | 0.999 | 1.000 | 1.000 | 0.999 | 1.000 | 0.9995112 |
| C | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9995729 |
| C | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997513 |
| C | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997931 |
| C | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997308 |
| C | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997961 |
| D | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998176 |
| D | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9995705 |
| D | 1 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.999 | 0.9994265 |
| D | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9996890 |
| D | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998604 |
| D | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998663 |
| D | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998941 |
| AN | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998512 |
| AN | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997770 |
| AN | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997055 |
| AN | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998214 |
| AN | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9999547 |
| AN | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998291 |
| AN | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998166 |
| W | 11 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998608 |
| W | 12 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998066 |
| W | 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9997836 |
| W | 2 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998327 |
| W | 3 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9999164 |
| W | 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998791 |
| W | 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.9998816 |

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

| WYT | Month | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998361 |
| All | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997132 |
| All | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997212 |
| All | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998233 |
| All | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998950 |
| All | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998444 |
| All | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998965 |
| C | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997584 |
| C | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9995194 |
| C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9996071 |
| C | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997487 |
| C | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997943 |
| C | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997457 |
| C | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998480 |
| D | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998418 |
| D | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9996802 |
| D | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9995830 |
| D | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997249 |
| D | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998667 |
| D | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998814 |
| D | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999266 |
| AN | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998586 |
| AN | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997920 |
| AN | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9997242 |
| AN | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999000 |
| AN | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999738 |
| AN | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998379 |
| AN | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998670 |
| W | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998716 |
| W | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9998179 |
| 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 | 0.9998842 |
| W | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.9999166 |

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

| WYT | Month | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 0.919 | 0.919 | 0.920 | 0.919 | 0.920 | 0.920 | 0.919 | 0.9198259 |
| All | 12 | 0.920 | 0.921 | 0.920 | 0.921 | 0.920 | 0.920 | 0.921 | 0.9206429 |
| All | 1 | 0.923 | 0.923 | 0.923 | 0.923 | 0.922 | 0.923 | 0.923 | 0.9231204 |
| All | 2 | 0.930 | 0.930 | 0.929 | 0.929 | 0.929 | 0.929 | 0.930 | 0.9295246 |
| All | 3 | 0.930 | 0.930 | 0.930 | 0.930 | 0.930 | 0.930 | 0.930 | 0.9298677 |
| All | 4 | 0.922 | 0.924 | 0.924 | 0.923 | 0.924 | 0.924 | 0.924 | 0.9232384 |
| All | 5 | 0.919 | 0.919 | 0.919 | 0.919 | 0.919 | 0.920 | 0.920 | 0.9192953 |
| C | 11 | 0.911 | 0.912 | 0.913 | 0.911 | 0.914 | 0.914 | 0.910 | 0.9120685 |
| C | 12 | 0.912 | 0.915 | 0.912 | 0.913 | 0.912 | 0.912 | 0.913 | 0.9122963 |
| C | 1 | 0.916 | 0.915 | 0.917 | 0.915 | 0.914 | 0.917 | 0.917 | 0.9170310 |
| C | 2 | 0.926 | 0.926 | 0.926 | 0.926 | 0.925 | 0.926 | 0.926 | 0.9256069 |
| C | 3 | 0.924 | 0.924 | 0.924 | 0.924 | 0.925 | 0.924 | 0.925 | 0.9241206 |
| C | 4 | 0.912 | 0.917 | 0.917 | 0.915 | 0.917 | 0.918 | 0.916 | 0.9150037 |
| C | 5 | 0.910 | 0.911 | 0.912 | 0.912 | 0.912 | 0.913 | 0.911 | 0.9117319 |
| D | 11 | 0.921 | 0.919 | 0.920 | 0.920 | 0.921 | 0.921 | 0.921 | 0.9201954 |
| D | 12 | 0.917 | 0.917 | 0.918 | 0.918 | 0.917 | 0.917 | 0.918 | 0.9173583 |
| D | 1 | 0.914 | 0.915 | 0.915 | 0.915 | 0.915 | 0.915 | 0.915 | 0.9140456 |
| D | 2 | 0.923 | 0.923 | 0.923 | 0.923 | 0.923 | 0.923 | 0.924 | 0.9234289 |
| D | 3 | 0.928 | 0.927 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.9276155 |
| D | 4 | 0.919 | 0.919 | 0.919 | 0.919 | 0.920 | 0.921 | 0.921 | 0.9200373 |
| D | 5 | 0.917 | 0.918 | 0.917 | 0.917 | 0.917 | 0.917 | 0.912 | 0.9168641 |
| AN | 11 | 0.916 | 0.912 | 0.917 | 0.917 | 0.917 | 0.918 | 0.914 | 0.9174075 |
| AN | 12 | 0.917 | 0.921 | 0.917 | 0.917 | 0.917 | 0.917 | 0.919 | 0.9211889 |
| AN | 1 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.929 | 0.9277133 |
| AN | 2 | 0.934 | 0.934 | 0.934 | 0.934 | 0.934 | 0.934 | 0.934 | 0.9338269 |
| AN | 3 | 0.934 | 0.934 | 0.934 | 0.934 | 0.934 | 0.934 | 0.935 | 0.9342772 |
| AN | 4 | 0.927 | 0.926 | 0.927 | 0.927 | 0.927 | 0.927 | 0.929 | 0.9267696 |
| AN | 5 | 0.921 | 0.922 | 0.921 | 0.921 | 0.921 | 0.922 | 0.926 | 0.9209418 |
| W | 11 | 0.925 | 0.924 | 0.924 | 0.924 | 0.924 | 0.924 | 0.924 | 0.9245088 |
| W | 12 | 0.927 | 0.927 | 0.927 | 0.927 | 0.927 | 0.927 | 0.927 | 0.9266183 |
| W | 1 | 0.929 | 0.930 | 0.929 | 0.929 | 0.929 | 0.929 | 0.930 | 0.9295159 |
| W | 2 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.9334541 |
| W | 3 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.933 | 0.9330817 |
| W | 4 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.928 | 0.930 | 0.9284512 |
| W | 5 | 0.924 | 0.924 | 0.924 | 0.924 | 0.924 | 0.924 | 0.926 | 0.9242119 |

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

| WYT | Month | NAA | Alt1 | Alt2wTUCPwoVA | Alt2woTUCPwoVA | Alt2woTUCPDeltaVA | Alt2woTUCPAllVA | Alt3 | Alt4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All | 11 | 0.329 | 0.323 | 0.330 | 0.329 | 0.333 | 0.332 | 0.326 | 0.3319283 |
| All | 12 | 0.379 | 0.387 | 0.381 | 0.383 | 0.380 | 0.379 | 0.389 | 0.3846347 |
| All | 1 | 0.438 | 0.439 | 0.442 | 0.438 | 0.438 | 0.442 | 0.445 | 0.4400147 |
| All | 2 | 0.470 | 0.468 | 0.469 | 0.469 | 0.463 | 0.469 | 0.469 | 0.4705475 |
| All | 3 | 0.469 | 0.466 | 0.467 | 0.468 | 0.469 | 0.468 | 0.473 | 0.4683637 |
| All | 4 | 0.365 | 0.370 | 0.372 | 0.369 | 0.372 | 0.378 | 0.387 | 0.3698849 |
| All | 5 | 0.345 | 0.348 | 0.347 | 0.347 | 0.346 | 0.349 | 0.359 | 0.3463451 |
| C | 11 | 0.251 | 0.247 | 0.254 | 0.253 | 0.257 | 0.253 | 0.244 | 0.2535977 |
| C | 12 | 0.278 | 0.290 | 0.278 | 0.286 | 0.279 | 0.277 | 0.288 | 0.2783746 |
| C | 1 | 0.323 | 0.317 | 0.333 | 0.319 | 0.319 | 0.334 | 0.334 | 0.3340512 |
| C | 2 | 0.366 | 0.357 | 0.361 | 0.362 | 0.340 | 0.362 | 0.357 | 0.3627318 |
| C | 3 | 0.346 | 0.342 | 0.342 | 0.342 | 0.347 | 0.344 | 0.349 | 0.3430606 |
| C | 4 | 0.248 | 0.277 | 0.275 | 0.261 | 0.272 | 0.279 | 0.265 | 0.2611065 |
| C | 5 | 0.250 | 0.257 | 0.259 | 0.259 | 0.258 | 0.266 | 0.257 | 0.2581781 |
| D | 11 | 0.324 | 0.315 | 0.319 | 0.319 | 0.331 | 0.330 | 0.327 | 0.3225785 |
| D | 12 | 0.323 | 0.322 | 0.331 | 0.331 | 0.323 | 0.322 | 0.329 | 0.3228597 |
| D | 1 | 0.324 | 0.327 | 0.331 | 0.331 | 0.331 | 0.330 | 0.330 | 0.3229247 |
| D | 2 | 0.343 | 0.343 | 0.342 | 0.342 | 0.341 | 0.340 | 0.351 | 0.3475676 |
| D | 3 | 0.412 | 0.413 | 0.413 | 0.413 | 0.413 | 0.414 | 0.429 | 0.4146228 |
| D | 4 | 0.310 | 0.309 | 0.310 | 0.310 | 0.313 | 0.329 | 0.327 | 0.3170989 |
| D | 5 | 0.308 | 0.308 | 0.306 | 0.306 | 0.300 | 0.301 | 0.272 | 0.3030137 |
| AN | 11 | 0.272 | 0.259 | 0.290 | 0.287 | 0.290 | 0.292 | 0.264 | 0.2897605 |
| AN | 12 | 0.308 | 0.343 | 0.306 | 0.305 | 0.306 | 0.306 | 0.331 | 0.3540850 |
| AN | 1 | 0.492 | 0.500 | 0.495 | 0.496 | 0.494 | 0.497 | 0.505 | 0.4833883 |
| AN | 2 | 0.566 | 0.565 | 0.565 | 0.565 | 0.565 | 0.565 | 0.565 | 0.5652119 |
| AN | 3 | 0.559 | 0.555 | 0.554 | 0.559 | 0.553 | 0.550 | 0.563 | 0.5577645 |
| AN | 4 | 0.402 | 0.392 | 0.399 | 0.401 | 0.399 | 0.411 | 0.452 | 0.4006676 |
| AN | 5 | 0.342 | 0.348 | 0.341 | 0.341 | 0.340 | 0.351 | 0.413 | 0.3413836 |
| W | 11 | 0.388 | 0.382 | 0.386 | 0.386 | 0.386 | 0.385 | 0.385 | 0.3889713 |
| W | 12 | 0.477 | 0.479 | 0.477 | 0.477 | 0.477 | 0.477 | 0.485 | 0.4779125 |
| W | 1 | 0.539 | 0.542 | 0.539 | 0.539 | 0.539 | 0.539 | 0.544 | 0.5412846 |
| W | 2 | 0.564 | 0.564 | 0.564 | 0.564 | 0.564 | 0.564 | 0.563 | 0.5640663 |
| W | 3 | 0.542 | 0.539 | 0.542 | 0.542 | 0.542 | 0.542 | 0.542 | 0.5419946 |
| W | 4 | 0.446 | 0.445 | 0.447 | 0.447 | 0.447 | 0.447 | 0.468 | 0.4469373 |
| W | 5 | 0.415 | 0.416 | 0.416 | 0.416 | 0.415 | 0.415 | 0.443 | 0.4156878 |

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