### S4 Table: Mean conditions experienced by observed fish and used in climate simulations. Variables shown include mean temperatures (*T*) and flows (*F*), arrival day of year (*D*), proportion transported (*J*), proportion hatchery (*H*), average ocean age (*A*), and catch (cube root transformed). Note, Salmon River variables are for observed and simulated summer-run Chinook from the SFSR.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Observed | Historical | | Dry | Wet |
|  | *Chinook* | | | | |
| *T Columbia* | 14.31 (2.46) | 14.49 (2.65) | 15.46 (2.81) | | 15.84 (2.87) |
| *T Snake* | 14.33 (2.43) | 15.41 (2.40) | 17.52 (2.93) | | 17.93 (2.97) |
| *T Salmon* | 16.80 (3.14) | 16.83 (2.70) | 20.12 (2.91) | | 20.68 (3.08) |
| *F Columbia* | 8.16 (2.67) | 8.51 (2.92) | 6.82 (2.47) | | 8.85 (2.98) |
| *F Snake* | 2.74 (1.23) | 2.78 (1.19) | 2.1 (0.98) | | 2.16 (1.16) |
| *F Salmon* | 0.84 (0.49) | 0.81 (0.44) | 0.31 (0.39) | | 0.35 (0.39) |
| *D Columbia* | 150.70 (19.08) | 150.59 (18.53) | 148.24 (20.14) | | 149.33 (20.69) |
| *D Snake* | 159.10 (19.29) | 160.37 (18.26) | 157.52 (19.75) | | 158.74 (20.19) |
| *D Salmon* | 171.23 (15.88) | 175.50 (18.02) | 174.03 (19.42) | | 162.54 (19.85) |
| *J* | 0.33 | 0.35 | 0.35 | | 0.35 |
| *H* | 0.74 | 0.72 | 0.72 | | 0.72 |
| *A* | 1.82 | 1.88 | 1.87 | | 1.88 |
| *C* | 1.06 | 1.02 | 1.01 | | 1.00 |
|  |  |  |  | |  |
|  | *Sockeye* | | | | |
| *T Columbia* | 18.69 (2.33) | 18.48 (1.37) | 19.72 (1.4) | | 19.75 (1.27) |
| *T Snake* | 18.37 (1.77) | 19.03 (1.59) | 21.70 (1.38) | | 21.9 (1.47) |
| *T Salmon* | 21.03 (1.28) | 20.77 (1.59) | 23.06 (1.13) | | 23.56 (1.18) |
| *F Columbia* | 7.20 (2.98) | 7.10 (2.43) | 5.61 (1.85) | | 6.52 (2.00) |
| *F Snake* | 1.85 (0.92) | 1.59 (0.65) | 1.07 (0.37) | | 1.09 (0.35) |
| *F Salmon* | 0.34 (0.17) | 0.43 (0.29) | 0.15 (0.11) | | 0.17 (0.12) |
| *D Columbia* | 183.23 (7.52) | 182.87 (7.51) | 180.82 (7.50) | | 180.81 (7.48) |
| *D Snake* | 190.25 (7.90) | 191.43 (7.86) | 188.94 (7.83) | | 188.96 (7.71) |
| *D Salmon* | 195.46 (7.83) | 195.05 (7.85) | 192.23 (7.82) | | 192.22 (7.70) |
| *J* | 0.38 | 0.31 | 0.31 | | 0.31 |
| *H* | 0.99 | 0.99 | 0.99 | | 0.99 |
| *A* | 1.95 | 2.01 | 2.01 | | 2.01 |
| *C* | 1.62 | 1.57 | 1.56 | | 1.56 |