

Appendix I. Chinook Salmon spawning depth (m) and Habitat Suitability Index (HSI). (EBMUD = East Bay Municipal Utility District)

| Location | Depth | HSI |
|-------------------------|--------------|------------|
| American River | 0.000 | 0.00 |
| American River | 0.152 | 0.00 |
| American River | 0.183 | 0.25 |
| American River | 0.213 | 0.31 |
| American River | 0.274 | 0.43 |
| American River | 0.305 | 0.50 |
| American River | 0.335 | 0.56 |
| American River | 0.366 | 0.64 |
| American River | 0.396 | 0.70 |
| American River | 0.427 | 0.77 |
| American River | 0.457 | 0.82 |
| American River | 0.488 | 0.89 |
| American River | 0.549 | 0.97 |
| American River | 0.579 | 0.98 |
| American River | 0.610 | 1.00 |
| American River | 0.640 | 1.00 |
| American River | 3.292 | 0.00 |
| American River | 30.480 | 0.00 |
| Sacramento River (fall) | 0.000 | 0.00 |
| Sacramento River (fall) | 0.122 | 0.00 |
| Sacramento River (fall) | 0.152 | 0.22 |
| Sacramento River (fall) | 0.189 | 0.30 |
| Sacramento River (fall) | 0.238 | 0.41 |
| Sacramento River (fall) | 0.283 | 0.54 |
| Sacramento River (fall) | 0.329 | 0.67 |
| Sacramento River (fall) | 0.378 | 0.79 |

| Location | Depth | HSI |
|------------------------------|--------------|------------|
| Sacramento River (fall) | 0.424 | 0.89 |
| Sacramento River (fall) | 0.469 | 0.96 |
| Sacramento River (fall) | 0.518 | 1.00 |
| Sacramento River (fall) | 0.564 | 1.00 |
| Sacramento River (fall) | 14.630 | 0.00 |
| Sacramento River (fall) | 30.480 | 0.00 |
| Sacramento River (late-fall) | 0.000 | 0.00 |
| Sacramento River (late-fall) | 0.088 | 0.00 |
| Sacramento River (late-fall) | 0.091 | 0.07 |
| Sacramento River (late-fall) | 0.134 | 0.12 |
| Sacramento River (late-fall) | 0.168 | 0.17 |
| Sacramento River (late-fall) | 0.201 | 0.24 |
| Sacramento River (late-fall) | 0.299 | 0.52 |
| Sacramento River (late-fall) | 0.396 | 0.82 |
| Sacramento River (late-fall) | 0.430 | 0.90 |
| Sacramento River (late-fall) | 0.497 | 0.99 |
| Sacramento River (late-fall) | 0.527 | 1.00 |
| Sacramento River (late-fall) | 5.761 | 0.00 |
| Sacramento River (late-fall) | 30.480 | 0.00 |
| Sacramento River (winter) | 0.000 | 0.00 |
| Sacramento River (winter) | 0.335 | 0.00 |
| Sacramento River (winter) | 0.366 | 0.39 |
| Sacramento River (winter) | 0.518 | 0.65 |
| Sacramento River (winter) | 0.701 | 0.87 |
| Sacramento River (winter) | 0.792 | 0.96 |
| Sacramento River (winter) | 0.853 | 0.99 |

| Location | Depth | HSI |
|---------------------------|--------------|------------|
| Sacramento River (winter) | 0.914 | 1.00 |
| Sacramento River (winter) | 0.945 | 1.00 |
| Sacramento River (winter) | 5.182 | 0.00 |
| Sacramento River (winter) | 30.480 | 0.00 |
| Yuba River (spring) | 0.000 | 0.00 |
| Yuba River (spring) | 0.122 | 0.00 |
| Yuba River (spring) | 0.152 | 0.17 |
| Yuba River (spring) | 0.183 | 0.22 |
| Yuba River (spring) | 0.213 | 0.29 |
| Yuba River (spring) | 0.244 | 0.36 |
| Yuba River (spring) | 0.274 | 0.43 |
| Yuba River (spring) | 0.305 | 0.51 |
| Yuba River (spring) | 0.335 | 0.60 |
| Yuba River (spring) | 0.366 | 0.68 |
| Yuba River (spring) | 0.396 | 0.75 |
| Yuba River (spring) | 0.427 | 0.82 |
| Yuba River (spring) | 0.457 | 0.88 |
| Yuba River (spring) | 0.488 | 0.93 |
| Yuba River (spring) | 0.518 | 0.97 |
| Yuba River (spring) | 0.549 | 0.99 |
| Yuba River (spring) | 0.579 | 1.00 |
| Yuba River (spring) | 0.610 | 1.00 |
| Yuba River (spring) | 1.615 | 0.00 |
| Yuba River (spring) | 30.480 | 0.00 |
| Yuba River (fall) | 0.000 | 0.00 |
| Yuba River (fall) | 0.030 | 0.00 |
| Yuba River (fall) | 0.061 | 0.09 |
| Yuba River (fall) | 0.091 | 0.15 |
| Yuba River (fall) | 0.122 | 0.24 |

| Location | Depth | HSI |
|----------------------|--------------|------------|
| Yuba River (fall) | 0.152 | 0.34 |
| Yuba River (fall) | 0.183 | 0.46 |
| Yuba River (fall) | 0.213 | 0.58 |
| Yuba River (fall) | 0.244 | 0.70 |
| Yuba River (fall) | 0.274 | 0.79 |
| Yuba River (fall) | 0.305 | 0.87 |
| Yuba River (fall) | 0.335 | 0.93 |
| Yuba River (fall) | 0.366 | 0.97 |
| Yuba River (fall) | 0.396 | 0.99 |
| Yuba River (fall) | 0.427 | 1.00 |
| Yuba River (fall) | 1.463 | 0.02 |
| Yuba River (fall) | 2.377 | 0.02 |
| Yuba River (fall) | 2.408 | 0.00 |
| Yuba River (fall) | 30.480 | 0.00 |
| Clear Creek (spring) | 0.000 | 0.00 |
| Clear Creek (spring) | 0.213 | 0.00 |
| Clear Creek (spring) | 0.244 | 0.08 |
| Clear Creek (spring) | 0.274 | 0.11 |
| Clear Creek (spring) | 0.305 | 0.15 |
| Clear Creek (spring) | 0.335 | 0.18 |
| Clear Creek (spring) | 0.366 | 0.22 |
| Clear Creek (spring) | 0.427 | 0.28 |
| Clear Creek (spring) | 0.518 | 0.34 |
| Clear Creek (spring) | 0.549 | 0.35 |
| Clear Creek (spring) | 0.579 | 0.36 |
| Clear Creek (spring) | 0.671 | 0.36 |
| Clear Creek (spring) | 0.701 | 0.35 |
| Clear Creek (spring) | 0.732 | 0.35 |
| Clear Creek (spring) | 0.762 | 0.34 |

| Location | Depth | HSI |
|----------------------|--------------|------------|
| Clear Creek (spring) | 0.792 | 0.33 |
| Clear Creek (spring) | 0.823 | 0.33 |
| Clear Creek (spring) | 0.853 | 0.32 |
| Clear Creek (spring) | 0.884 | 0.32 |
| Clear Creek (spring) | 0.914 | 0.31 |
| Clear Creek (spring) | 1.036 | 0.31 |
| Clear Creek (spring) | 1.067 | 0.32 |
| Clear Creek (spring) | 1.097 | 0.32 |
| Clear Creek (spring) | 1.158 | 0.34 |
| Clear Creek (spring) | 1.280 | 0.42 |
| Clear Creek (spring) | 1.372 | 0.51 |
| Clear Creek (spring) | 1.402 | 0.55 |
| Clear Creek (spring) | 1.433 | 0.58 |
| Clear Creek (spring) | 1.463 | 0.62 |
| Clear Creek (spring) | 1.494 | 0.67 |
| Clear Creek (spring) | 1.646 | 0.87 |
| Clear Creek (spring) | 1.707 | 0.93 |
| Clear Creek (spring) | 1.798 | 0.99 |
| Clear Creek (spring) | 1.829 | 1.00 |
| Clear Creek (spring) | 1.890 | 1.00 |
| Clear Creek (spring) | 1.920 | 0.99 |
| Clear Creek (spring) | 1.951 | 0.97 |
| Clear Creek (spring) | 1.981 | 0.94 |
| Clear Creek (spring) | 2.012 | 0.90 |
| Clear Creek (spring) | 2.042 | 0.84 |
| Clear Creek (spring) | 2.073 | 0.76 |
| Clear Creek (spring) | 2.103 | 0.67 |
| Clear Creek (spring) | 2.134 | 0.56 |
| Clear Creek (spring) | 2.164 | 0.00 |

| Location | Depth | HSI |
|----------------------|--------------|------------|
| Clear Creek (spring) | 30.480 | 0.00 |
| Clear Creek (fall) | 0.000 | 0.00 |
| Clear Creek (fall) | 0.122 | 0.00 |
| Clear Creek (fall) | 0.152 | 0.39 |
| Clear Creek (fall) | 0.183 | 0.59 |
| Clear Creek (fall) | 0.213 | 0.76 |
| Clear Creek (fall) | 0.244 | 0.88 |
| Clear Creek (fall) | 0.274 | 0.95 |
| Clear Creek (fall) | 0.305 | 0.99 |
| Clear Creek (fall) | 0.335 | 1.00 |
| Clear Creek (fall) | 2.042 | 0.00 |
| Clear Creek (fall) | 30.480 | 0.00 |
| Butte Creek | 0.000 | 0.00 |
| Butte Creek | 0.061 | 0.00 |
| Butte Creek | 0.091 | 0.16 |
| Butte Creek | 0.122 | 0.32 |
| Butte Creek | 0.152 | 0.52 |
| Butte Creek | 0.183 | 0.71 |
| Butte Creek | 0.213 | 0.85 |
| Butte Creek | 0.244 | 0.95 |
| Butte Creek | 0.274 | 0.99 |
| Butte Creek | 0.305 | 1.00 |
| Butte Creek | 1.250 | 0.00 |
| Butte Creek | 30.480 | 0.00 |
| Merced River | 0.000 | 0.00 |
| Merced River | 0.091 | 0.00 |
| Merced River | 0.204 | 0.39 |
| Merced River | 0.219 | 0.49 |
| Merced River | 0.250 | 0.70 |

| Location | Depth | HSI |
|------------------|--------------|------------|
| Merced River | 0.265 | 0.79 |
| Merced River | 0.277 | 0.88 |
| Merced River | 0.308 | 0.98 |
| Merced River | 0.323 | 1.00 |
| Merced River | 0.332 | 1.00 |
| Merced River | 7.315 | 0.00 |
| Merced River | 30.480 | 0.00 |
| Stanislaus River | 0.000 | 0.00 |
| Stanislaus River | 0.061 | 0.00 |
| Stanislaus River | 0.091 | 0.03 |
| Stanislaus River | 0.122 | 0.08 |
| Stanislaus River | 0.152 | 0.16 |
| Stanislaus River | 0.183 | 0.22 |
| Stanislaus River | 0.213 | 0.26 |
| Stanislaus River | 0.244 | 0.31 |
| Stanislaus River | 0.274 | 0.39 |
| Stanislaus River | 0.305 | 0.46 |
| Stanislaus River | 0.335 | 0.52 |
| Stanislaus River | 0.366 | 0.55 |
| Stanislaus River | 0.396 | 0.58 |
| Stanislaus River | 0.427 | 0.66 |
| Stanislaus River | 0.457 | 0.85 |
| Stanislaus River | 0.488 | 0.95 |
| Stanislaus River | 0.518 | 1.00 |
| Stanislaus River | 0.549 | 0.98 |
| Stanislaus River | 0.579 | 0.96 |
| Stanislaus River | 0.610 | 0.93 |
| Stanislaus River | 0.640 | 0.91 |
| Stanislaus River | 0.671 | 0.89 |

| Location | Depth | HSI |
|------------------|--------------|------------|
| Stanislaus River | 0.701 | 0.88 |
| Stanislaus River | 0.732 | 0.86 |
| Stanislaus River | 0.762 | 0.85 |
| Stanislaus River | 0.792 | 0.83 |
| Stanislaus River | 0.823 | 0.82 |
| Stanislaus River | 0.853 | 0.80 |
| Stanislaus River | 0.884 | 0.79 |
| Stanislaus River | 0.914 | 0.77 |
| Stanislaus River | 0.945 | 0.70 |
| Stanislaus River | 0.975 | 0.63 |
| Stanislaus River | 1.006 | 0.56 |
| Stanislaus River | 1.036 | 0.49 |
| Stanislaus River | 1.067 | 0.42 |
| Stanislaus River | 1.097 | 0.34 |
| Stanislaus River | 1.128 | 0.32 |
| Stanislaus River | 1.158 | 0.23 |
| Stanislaus River | 1.280 | 0.19 |
| Stanislaus River | 1.311 | 0.19 |
| Stanislaus River | 1.341 | 0.18 |
| Stanislaus River | 1.402 | 0.16 |
| Stanislaus River | 1.433 | 0.16 |
| Stanislaus River | 1.463 | 0.13 |
| Stanislaus River | 1.494 | 0.06 |
| Stanislaus River | 1.524 | 0.02 |
| Stanislaus River | 1.527 | 0.00 |
| Stanislaus River | 30.480 | 0.00 |
| Tuolumne River | 0.000 | 0.00 |
| Tuolumne River | 0.152 | 0.00 |
| Tuolumne River | 0.183 | 0.12 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Tuolumne River | 0.213 | 0.23 |
| Tuolumne River | 0.244 | 0.27 |
| Tuolumne River | 0.274 | 1.00 |
| Tuolumne River | 0.792 | 1.00 |
| Tuolumne River | 0.823 | 0.15 |
| Tuolumne River | 0.853 | 0.12 |
| Tuolumne River | 0.884 | 0.08 |
| Tuolumne River | 0.914 | 0.00 |
| Tuolumne River | 30.480 | 0.00 |
| Battle Creek | 0.000 | 0.00 |
| Battle Creek | 0.122 | 0.00 |
| Battle Creek | 0.137 | 0.07 |
| Battle Creek | 0.229 | 0.52 |
| Battle Creek | 0.290 | 1.00 |
| Battle Creek | 0.351 | 0.85 |
| Battle Creek | 0.411 | 0.65 |
| Battle Creek | 0.472 | 0.50 |
| Battle Creek | 0.533 | 0.28 |
| Battle Creek | 0.594 | 0.11 |
| Battle Creek | 0.655 | 0.02 |
| Battle Creek | 1.524 | 0.00 |
| Battle Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 0.00 |
| Feather River | 0.091 | 0.00 |
| Feather River | 0.152 | 0.06 |
| Feather River | 0.213 | 0.14 |
| Feather River | 0.274 | 0.28 |
| Feather River | 0.335 | 0.43 |
| Feather River | 0.396 | 0.60 |

| Location | Depth | HSI |
|------------------------------|--------------|------------|
| Feather River | 0.457 | 0.75 |
| Feather River | 0.518 | 0.87 |
| Feather River | 0.579 | 0.96 |
| Feather River | 0.640 | 1.00 |
| Feather River | 0.701 | 0.99 |
| Feather River | 0.762 | 0.94 |
| Feather River | 0.823 | 0.84 |
| Feather River | 0.884 | 0.71 |
| Feather River | 0.945 | 0.55 |
| Feather River | 1.006 | 0.37 |
| Feather River | 1.067 | 0.20 |
| Feather River | 1.128 | 0.10 |
| Feather River | 1.189 | 0.04 |
| Feather River | 1.250 | 0.02 |
| Feather River | 1.311 | 0.00 |
| Feather River | 30.480 | 0.00 |
| Yuba River Beak | 0.000 | 0.00 |
| Yuba River Beak | 0.076 | 0.00 |
| Yuba River Beak | 0.137 | 0.10 |
| Yuba River Beak | 0.198 | 0.20 |
| Yuba River Beak | 0.229 | 0.50 |
| Yuba River Beak | 0.290 | 1.00 |
| Yuba River Beak | 0.564 | 1.00 |
| Yuba River Beak | 0.655 | 0.50 |
| Yuba River Beak | 0.777 | 0.20 |
| Yuba River Beak | 0.869 | 0.10 |
| Yuba River Beak | 1.021 | 0.00 |
| Yuba River Beak | 30.480 | 0.00 |
| Mokelumne River Envirosphere | 0.000 | 0.00 |

| Location | Depth | HSI |
|------------------------------|--------------|------------|
| Mokelumne River Envirosphere | 0.030 | 0.11 |
| Mokelumne River Envirosphere | 0.091 | 0.25 |
| Mokelumne River Envirosphere | 0.152 | 0.40 |
| Mokelumne River Envirosphere | 0.213 | 0.65 |
| Mokelumne River Envirosphere | 0.274 | 0.85 |
| Mokelumne River Envirosphere | 0.335 | 0.99 |
| Mokelumne River Envirosphere | 0.396 | 1.00 |
| Mokelumne River Envirosphere | 0.457 | 0.92 |
| Mokelumne River Envirosphere | 0.518 | 0.78 |
| Mokelumne River Envirosphere | 0.579 | 0.62 |
| Mokelumne River Envirosphere | 0.640 | 0.47 |
| Mokelumne River Envirosphere | 0.701 | 0.35 |
| Mokelumne River Envirosphere | 0.762 | 0.27 |
| Mokelumne River Envirosphere | 0.823 | 0.20 |
| Mokelumne River Envirosphere | 0.884 | 0.14 |
| Mokelumne River Envirosphere | 0.945 | 0.09 |
| Mokelumne River Envirosphere | 1.006 | 0.04 |
| Mokelumne River Envirosphere | 1.067 | 0.01 |
| Mokelumne River Envirosphere | 1.128 | 0.00 |
| Mokelumne River Envirosphere | 30.480 | 0.00 |
| Mokelumne River EBMUD | 0.000 | 0.00 |
| Mokelumne River EBMUD | 0.061 | 0.00 |
| Mokelumne River EBMUD | 0.122 | 0.02 |
| Mokelumne River EBMUD | 0.183 | 0.12 |
| Mokelumne River EBMUD | 0.244 | 0.35 |
| Mokelumne River EBMUD | 0.305 | 0.69 |
| Mokelumne River EBMUD | 0.366 | 0.96 |
| Mokelumne River EBMUD | 0.488 | 1.00 |
| Mokelumne River EBMUD | 0.549 | 0.90 |

| Location | Depth | HSI |
|-----------------------|--------------|------------|
| Mokelumne River EBMUD | 0.671 | 0.51 |
| Mokelumne River EBMUD | 0.792 | 0.29 |
| Mokelumne River EBMUD | 0.914 | 0.22 |
| Mokelumne River EBMUD | 0.975 | 0.16 |
| Mokelumne River EBMUD | 1.036 | 0.10 |
| Mokelumne River EBMUD | 1.158 | 0.04 |
| Mokelumne River EBMUD | 1.219 | 0.00 |
| Mokelumne River EBMUD | 30.480 | 0.00 |

Appendix II. Chinook Salmon spawning mean water column velocity (m/s) and Habitat Suitability Index (HSI). (EBMUD = East Bay Municipal Utility District)

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| American River | 0.000 | 0.00 |
| American River | 0.030 | 0.02 |
| American River | 0.091 | 0.04 |
| American River | 0.122 | 0.07 |
| American River | 0.213 | 0.15 |
| American River | 0.274 | 0.25 |
| American River | 0.305 | 0.32 |
| American River | 0.335 | 0.38 |
| American River | 0.366 | 0.46 |
| American River | 0.396 | 0.53 |
| American River | 0.427 | 0.62 |
| American River | 0.457 | 0.7 |
| American River | 0.488 | 0.78 |
| American River | 0.518 | 0.85 |
| American River | 0.549 | 0.91 |
| American River | 0.579 | 0.96 |
| American River | 0.610 | 0.99 |
| American River | 0.640 | 1 |
| American River | 0.671 | 0.99 |
| American River | 0.701 | 0.97 |
| American River | 0.732 | 0.93 |
| American River | 0.762 | 0.88 |
| American River | 0.792 | 0.8 |
| American River | 0.823 | 0.73 |
| American River | 0.853 | 0.67 |

| Location | Velocity | HSI |
|-------------------------|-----------------|------------|
| American River | 0.884 | 0.56 |
| American River | 0.914 | 0.49 |
| American River | 0.945 | 0.4 |
| American River | 1.006 | 0.28 |
| American River | 1.036 | 0.21 |
| American River | 1.097 | 0.13 |
| American River | 1.158 | 0.07 |
| American River | 1.219 | 0.03 |
| American River | 1.280 | 0.01 |
| American River | 1.311 | 0 |
| American River | 30.480 | 0.00 |
| Sacramento River (fall) | 0.000 | 0.00 |
| Sacramento River (fall) | 0.094 | 0.00 |
| Sacramento River (fall) | 0.098 | 0.08 |
| Sacramento River (fall) | 0.122 | 0.11 |
| Sacramento River (fall) | 0.158 | 0.17 |
| Sacramento River (fall) | 0.219 | 0.30 |
| Sacramento River (fall) | 0.259 | 0.41 |
| Sacramento River (fall) | 0.296 | 0.54 |
| Sacramento River (fall) | 0.375 | 0.78 |
| Sacramento River (fall) | 0.415 | 0.88 |
| Sacramento River (fall) | 0.472 | 0.98 |
| Sacramento River (fall) | 0.512 | 1.00 |
| Sacramento River (fall) | 0.533 | 1.00 |
| Sacramento River (fall) | 0.573 | 0.97 |

| Location | Velocity | HSI |
|------------------------------|-----------------|------------|
| Sacramento River (fall) | 0.591 | 0.95 |
| Sacramento River (fall) | 0.631 | 0.89 |
| Sacramento River (fall) | 0.710 | 0.73 |
| Sacramento River (fall) | 0.786 | 0.55 |
| Sacramento River (fall) | 0.866 | 0.39 |
| Sacramento River (fall) | 0.945 | 0.27 |
| Sacramento River (fall) | 1.003 | 0.20 |
| Sacramento River (fall) | 1.024 | 0.19 |
| Sacramento River (fall) | 1.061 | 0.15 |
| Sacramento River (fall) | 1.198 | 0.08 |
| Sacramento River (fall) | 1.317 | 0.05 |
| Sacramento River (fall) | 1.375 | 0.05 |
| Sacramento River (fall) | 1.396 | 0.04 |
| Sacramento River (fall) | 1.765 | 0.04 |
| Sacramento River (fall) | 1.768 | 0.00 |
| Sacramento River (fall) | 30.480 | 0.00 |
| Sacramento River (late-fall) | 0.000 | 0.00 |
| Sacramento River (late-fall) | 0.094 | 0.00 |
| Sacramento River (late-fall) | 0.098 | 0.08 |
| Sacramento River (late-fall) | 0.162 | 0.18 |
| Sacramento River (late-fall) | 0.201 | 0.27 |
| Sacramento River (late-fall) | 0.378 | 0.83 |
| Sacramento River (late-fall) | 0.418 | 0.92 |
| Sacramento River (late-fall) | 0.457 | 0.98 |
| Sacramento River (late-fall) | 0.497 | 1.00 |
| Sacramento River (late-fall) | 0.518 | 1.00 |
| Sacramento River (late-fall) | 0.558 | 0.98 |
| Sacramento River (late-fall) | 0.597 | 0.94 |
| Sacramento River (late-fall) | 0.774 | 0.63 |

| Location | Velocity | HSI |
|------------------------------|-----------------|------------|
| Sacramento River (late-fall) | 0.893 | 0.45 |
| Sacramento River (late-fall) | 1.030 | 0.31 |
| Sacramento River (late-fall) | 1.189 | 0.22 |
| Sacramento River (late-fall) | 1.780 | 0.06 |
| Sacramento River (late-fall) | 1.783 | 0.00 |
| Sacramento River (late-fall) | 30.480 | 0.00 |
| Sacramento River (winter) | 0.000 | 0.00 |
| Sacramento River (winter) | 0.262 | 0.00 |
| Sacramento River (winter) | 0.290 | 0.16 |
| Sacramento River (winter) | 0.378 | 0.30 |
| Sacramento River (winter) | 0.607 | 0.80 |
| Sacramento River (winter) | 0.664 | 0.90 |
| Sacramento River (winter) | 0.722 | 0.96 |
| Sacramento River (winter) | 0.780 | 1.00 |
| Sacramento River (winter) | 0.838 | 1.00 |
| Sacramento River (winter) | 0.924 | 0.94 |
| Sacramento River (winter) | 1.012 | 0.84 |
| Sacramento River (winter) | 1.326 | 0.39 |
| Sacramento River (winter) | 1.500 | 0.23 |
| Sacramento River (winter) | 1.615 | 0.17 |
| Sacramento River (winter) | 1.817 | 0.09 |
| Sacramento River (winter) | 1.844 | 0.09 |
| Sacramento River (winter) | 2.134 | 0.04 |
| Sacramento River (winter) | 2.566 | 0.02 |
| Sacramento River (winter) | 2.588 | 0.00 |
| Sacramento River (winter) | 30.480 | 0.00 |
| Yuba River (spring) | 0.000 | 0.00 |
| Yuba River (spring) | 0.085 | 0.00 |
| Yuba River (spring) | 0.088 | 0.04 |

| Location | Velocity | HSI |
|---------------------|-----------------|------------|
| Yuba River (spring) | 0.091 | 0.04 |
| Yuba River (spring) | 0.122 | 0.06 |
| Yuba River (spring) | 0.152 | 0.09 |
| Yuba River (spring) | 0.183 | 0.12 |
| Yuba River (spring) | 0.213 | 0.15 |
| Yuba River (spring) | 0.244 | 0.20 |
| Yuba River (spring) | 0.274 | 0.25 |
| Yuba River (spring) | 0.305 | 0.31 |
| Yuba River (spring) | 0.335 | 0.38 |
| Yuba River (spring) | 0.366 | 0.45 |
| Yuba River (spring) | 0.396 | 0.52 |
| Yuba River (spring) | 0.427 | 0.60 |
| Yuba River (spring) | 0.457 | 0.67 |
| Yuba River (spring) | 0.488 | 0.74 |
| Yuba River (spring) | 0.518 | 0.80 |
| Yuba River (spring) | 0.579 | 0.90 |
| Yuba River (spring) | 0.610 | 0.94 |
| Yuba River (spring) | 0.640 | 0.97 |
| Yuba River (spring) | 0.671 | 0.99 |
| Yuba River (spring) | 0.701 | 1.00 |
| Yuba River (spring) | 0.732 | 1.00 |
| Yuba River (spring) | 0.762 | 0.99 |
| Yuba River (spring) | 0.792 | 0.97 |
| Yuba River (spring) | 0.823 | 0.95 |
| Yuba River (spring) | 0.853 | 0.92 |
| Yuba River (spring) | 0.914 | 0.84 |
| Yuba River (spring) | 0.945 | 0.79 |
| Yuba River (spring) | 1.067 | 0.59 |
| Yuba River (spring) | 1.097 | 0.53 |

| Location | Velocity | HSI |
|---------------------|-----------------|------------|
| Yuba River (spring) | 1.128 | 0.48 |
| Yuba River (spring) | 1.158 | 0.44 |
| Yuba River (spring) | 1.189 | 0.39 |
| Yuba River (spring) | 1.219 | 0.35 |
| Yuba River (spring) | 1.250 | 0.31 |
| Yuba River (spring) | 1.280 | 0.28 |
| Yuba River (spring) | 1.311 | 0.24 |
| Yuba River (spring) | 1.341 | 0.22 |
| Yuba River (spring) | 1.344 | 0.00 |
| Yuba River (spring) | 2.112 | 0.00 |
| Yuba River (spring) | 30.480 | 0.00 |
| Yuba River (fall) | 0.000 | 0.00 |
| Yuba River (fall) | 0.067 | 0.00 |
| Yuba River (fall) | 0.070 | 0.09 |
| Yuba River (fall) | 0.091 | 0.13 |
| Yuba River (fall) | 0.122 | 0.21 |
| Yuba River (fall) | 0.152 | 0.30 |
| Yuba River (fall) | 0.244 | 0.63 |
| Yuba River (fall) | 0.305 | 0.81 |
| Yuba River (fall) | 0.335 | 0.87 |
| Yuba River (fall) | 0.366 | 0.92 |
| Yuba River (fall) | 0.396 | 0.96 |
| Yuba River (fall) | 0.457 | 1.00 |
| Yuba River (fall) | 0.518 | 1.00 |
| Yuba River (fall) | 0.549 | 0.99 |
| Yuba River (fall) | 0.579 | 0.97 |
| Yuba River (fall) | 0.610 | 0.96 |
| Yuba River (fall) | 0.792 | 0.84 |
| Yuba River (fall) | 0.823 | 0.83 |

| Location | Velocity | HSI |
|----------------------|-----------------|------------|
| Yuba River (fall) | 0.853 | 0.81 |
| Yuba River (fall) | 0.945 | 0.78 |
| Yuba River (fall) | 0.975 | 0.78 |
| Yuba River (fall) | 1.006 | 0.77 |
| Yuba River (fall) | 1.036 | 0.77 |
| Yuba River (fall) | 1.067 | 0.76 |
| Yuba River (fall) | 1.097 | 0.76 |
| Yuba River (fall) | 1.158 | 0.74 |
| Yuba River (fall) | 1.189 | 0.72 |
| Yuba River (fall) | 1.219 | 0.71 |
| Yuba River (fall) | 1.280 | 0.65 |
| Yuba River (fall) | 1.311 | 0.61 |
| Yuba River (fall) | 1.341 | 0.56 |
| Yuba River (fall) | 1.372 | 0.51 |
| Yuba River (fall) | 1.402 | 0.45 |
| Yuba River (fall) | 1.433 | 0.38 |
| Yuba River (fall) | 1.463 | 0.31 |
| Yuba River (fall) | 1.494 | 0.24 |
| Yuba River (fall) | 1.554 | 0.12 |
| Yuba River (fall) | 1.585 | 0.08 |
| Yuba River (fall) | 1.615 | 0.05 |
| Yuba River (fall) | 1.618 | 0.05 |
| Yuba River (fall) | 1.622 | 0.00 |
| Yuba River (fall) | 2.112 | 0.00 |
| Yuba River (fall) | 30.480 | 0.00 |
| Clear Creek (spring) | 0.000 | 0.00 |
| Clear Creek (spring) | 0.210 | 0.00 |
| Clear Creek (spring) | 0.213 | 0.06 |
| Clear Creek (spring) | 0.244 | 0.08 |

| Location | Velocity | HSI |
|----------------------|-----------------|------------|
| Clear Creek (spring) | 0.274 | 0.10 |
| Clear Creek (spring) | 0.305 | 0.13 |
| Clear Creek (spring) | 0.335 | 0.17 |
| Clear Creek (spring) | 0.366 | 0.21 |
| Clear Creek (spring) | 0.396 | 0.25 |
| Clear Creek (spring) | 0.427 | 0.30 |
| Clear Creek (spring) | 0.457 | 0.36 |
| Clear Creek (spring) | 0.488 | 0.41 |
| Clear Creek (spring) | 0.518 | 0.48 |
| Clear Creek (spring) | 0.549 | 0.54 |
| Clear Creek (spring) | 0.579 | 0.60 |
| Clear Creek (spring) | 0.610 | 0.66 |
| Clear Creek (spring) | 0.640 | 0.72 |
| Clear Creek (spring) | 0.671 | 0.77 |
| Clear Creek (spring) | 0.701 | 0.82 |
| Clear Creek (spring) | 0.732 | 0.87 |
| Clear Creek (spring) | 0.762 | 0.91 |
| Clear Creek (spring) | 0.792 | 0.94 |
| Clear Creek (spring) | 0.823 | 0.97 |
| Clear Creek (spring) | 0.853 | 0.98 |
| Clear Creek (spring) | 0.884 | 1.00 |
| Clear Creek (spring) | 0.914 | 1.00 |
| Clear Creek (spring) | 0.945 | 1.00 |
| Clear Creek (spring) | 0.975 | 0.99 |
| Clear Creek (spring) | 1.006 | 0.97 |
| Clear Creek (spring) | 1.036 | 0.95 |
| Clear Creek (spring) | 1.067 | 0.92 |
| Clear Creek (spring) | 1.097 | 0.88 |
| Clear Creek (spring) | 1.128 | 0.83 |

| Location | Velocity | HSI |
|----------------------|-----------------|------------|
| Clear Creek (spring) | 1.158 | 0.79 |
| Clear Creek (spring) | 1.189 | 0.73 |
| Clear Creek (spring) | 1.219 | 0.67 |
| Clear Creek (spring) | 1.250 | 0.61 |
| Clear Creek (spring) | 1.280 | 0.55 |
| Clear Creek (spring) | 1.311 | 0.49 |
| Clear Creek (spring) | 1.341 | 0.43 |
| Clear Creek (spring) | 1.344 | 0.00 |
| Clear Creek (spring) | 30.480 | 0.00 |
| Clear Creek (fall) | 0.000 | 0.00 |
| Clear Creek (fall) | 0.027 | 0.00 |
| Clear Creek (fall) | 0.030 | 0.06 |
| Clear Creek (fall) | 0.046 | 0.08 |
| Clear Creek (fall) | 0.067 | 0.10 |
| Clear Creek (fall) | 0.088 | 0.12 |
| Clear Creek (fall) | 0.110 | 0.14 |
| Clear Creek (fall) | 0.131 | 0.17 |
| Clear Creek (fall) | 0.152 | 0.21 |
| Clear Creek (fall) | 0.174 | 0.24 |
| Clear Creek (fall) | 0.195 | 0.29 |
| Clear Creek (fall) | 0.216 | 0.33 |
| Clear Creek (fall) | 0.238 | 0.38 |
| Clear Creek (fall) | 0.259 | 0.43 |
| Clear Creek (fall) | 0.280 | 0.48 |
| Clear Creek (fall) | 0.289 | 0.50 |
| Clear Creek (fall) | 0.302 | 0.53 |
| Clear Creek (fall) | 0.323 | 0.59 |
| Clear Creek (fall) | 0.344 | 0.64 |
| Clear Creek (fall) | 0.366 | 0.70 |

| Location | Velocity | HSI |
|--------------------|-----------------|------------|
| Clear Creek (fall) | 0.387 | 0.75 |
| Clear Creek (fall) | 0.408 | 0.80 |
| Clear Creek (fall) | 0.430 | 0.84 |
| Clear Creek (fall) | 0.451 | 0.88 |
| Clear Creek (fall) | 0.472 | 0.92 |
| Clear Creek (fall) | 0.494 | 0.95 |
| Clear Creek (fall) | 0.515 | 0.97 |
| Clear Creek (fall) | 0.536 | 0.99 |
| Clear Creek (fall) | 0.558 | 1.00 |
| Clear Creek (fall) | 0.600 | 1.00 |
| Clear Creek (fall) | 0.622 | 0.99 |
| Clear Creek (fall) | 1.266 | 0.50 |
| Clear Creek (fall) | 1.923 | 0.00 |
| Clear Creek (fall) | 30.480 | 0.00 |
| Butte Creek | 0.000 | 0.00 |
| Butte Creek | 0.015 | 0.00 |
| Butte Creek | 0.018 | 0.04 |
| Butte Creek | 0.030 | 0.04 |
| Butte Creek | 0.061 | 0.07 |
| Butte Creek | 0.091 | 0.11 |
| Butte Creek | 0.122 | 0.16 |
| Butte Creek | 0.152 | 0.23 |
| Butte Creek | 0.183 | 0.31 |
| Butte Creek | 0.213 | 0.40 |
| Butte Creek | 0.244 | 0.50 |
| Butte Creek | 0.274 | 0.59 |
| Butte Creek | 0.305 | 0.68 |
| Butte Creek | 0.335 | 0.75 |
| Butte Creek | 0.366 | 0.82 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Butte Creek | 0.396 | 0.87 |
| Butte Creek | 0.427 | 0.92 |
| Butte Creek | 0.457 | 0.95 |
| Butte Creek | 0.488 | 0.98 |
| Butte Creek | 0.518 | 0.99 |
| Butte Creek | 0.549 | 1.00 |
| Butte Creek | 0.579 | 1.00 |
| Butte Creek | 0.610 | 0.99 |
| Butte Creek | 0.640 | 0.98 |
| Butte Creek | 0.671 | 0.96 |
| Butte Creek | 0.701 | 0.94 |
| Butte Creek | 0.732 | 0.90 |
| Butte Creek | 0.762 | 0.87 |
| Butte Creek | 0.792 | 0.82 |
| Butte Creek | 0.823 | 0.78 |
| Butte Creek | 0.853 | 0.73 |
| Butte Creek | 0.884 | 0.67 |
| Butte Creek | 0.914 | 0.62 |
| Butte Creek | 0.945 | 0.56 |
| Butte Creek | 0.975 | 0.51 |
| Butte Creek | 1.006 | 0.46 |
| Butte Creek | 1.036 | 0.40 |
| Butte Creek | 1.067 | 0.36 |
| Butte Creek | 1.097 | 0.31 |
| Butte Creek | 1.128 | 0.27 |
| Butte Creek | 1.158 | 0.24 |
| Butte Creek | 1.161 | 0.00 |
| Butte Creek | 30.480 | 0.00 |
| Merced River | 0.000 | 0.00 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Merced River | 0.122 | 0.00 |
| Merced River | 0.128 | 0.07 |
| Merced River | 0.155 | 0.11 |
| Merced River | 0.183 | 0.15 |
| Merced River | 0.210 | 0.21 |
| Merced River | 0.253 | 0.33 |
| Merced River | 0.280 | 0.41 |
| Merced River | 0.308 | 0.51 |
| Merced River | 0.335 | 0.61 |
| Merced River | 0.363 | 0.70 |
| Merced River | 0.393 | 0.79 |
| Merced River | 0.421 | 0.87 |
| Merced River | 0.448 | 0.93 |
| Merced River | 0.503 | 1.00 |
| Merced River | 0.530 | 1.00 |
| Merced River | 0.558 | 0.98 |
| Merced River | 0.585 | 0.95 |
| Merced River | 0.613 | 0.90 |
| Merced River | 0.643 | 0.84 |
| Merced River | 0.671 | 0.77 |
| Merced River | 0.698 | 0.70 |
| Merced River | 0.753 | 0.55 |
| Merced River | 0.780 | 0.48 |
| Merced River | 0.808 | 0.41 |
| Merced River | 0.835 | 0.35 |
| Merced River | 0.878 | 0.27 |
| Merced River | 0.899 | 0.21 |
| Merced River | 0.920 | 0.20 |
| Merced River | 0.960 | 0.15 |

| Location | Velocity | HSI |
|------------------|-----------------|------------|
| Merced River | 1.003 | 0.11 |
| Merced River | 1.030 | 0.08 |
| Merced River | 1.058 | 0.07 |
| Merced River | 1.085 | 0.05 |
| Merced River | 1.113 | 0.04 |
| Merced River | 1.143 | 0.03 |
| Merced River | 1.170 | 0.02 |
| Merced River | 1.198 | 0.02 |
| Merced River | 1.237 | 0.01 |
| Merced River | 1.277 | 0.00 |
| Merced River | 30.480 | 0.00 |
| Stanislaus River | 0.000 | 0.00 |
| Stanislaus River | 0.091 | 0.00 |
| Stanislaus River | 0.122 | 0.02 |
| Stanislaus River | 0.152 | 0.06 |
| Stanislaus River | 0.183 | 0.12 |
| Stanislaus River | 0.213 | 0.21 |
| Stanislaus River | 0.244 | 0.32 |
| Stanislaus River | 0.274 | 0.42 |
| Stanislaus River | 0.305 | 0.53 |
| Stanislaus River | 0.335 | 0.57 |
| Stanislaus River | 0.366 | 0.59 |
| Stanislaus River | 0.396 | 0.63 |
| Stanislaus River | 0.427 | 0.76 |
| Stanislaus River | 0.457 | 0.92 |
| Stanislaus River | 0.488 | 1.00 |
| Stanislaus River | 0.518 | 0.98 |
| Stanislaus River | 0.549 | 0.97 |
| Stanislaus River | 0.579 | 0.95 |

| Location | Velocity | HSI |
|------------------|-----------------|------------|
| Stanislaus River | 0.610 | 0.94 |
| Stanislaus River | 0.640 | 0.92 |
| Stanislaus River | 0.671 | 0.91 |
| Stanislaus River | 0.701 | 0.89 |
| Stanislaus River | 0.732 | 0.88 |
| Stanislaus River | 0.762 | 0.86 |
| Stanislaus River | 0.792 | 0.77 |
| Stanislaus River | 0.823 | 0.69 |
| Stanislaus River | 0.853 | 0.59 |
| Stanislaus River | 0.884 | 0.49 |
| Stanislaus River | 0.914 | 0.44 |
| Stanislaus River | 0.945 | 0.39 |
| Stanislaus River | 0.975 | 0.34 |
| Stanislaus River | 1.006 | 0.29 |
| Stanislaus River | 1.036 | 0.25 |
| Stanislaus River | 1.067 | 0.12 |
| Stanislaus River | 1.250 | 0.06 |
| Stanislaus River | 1.280 | 0.00 |
| Stanislaus River | 30.480 | 0.00 |
| Tuolumne River | 0.000 | 0.00 |
| Tuolumne River | 0.003 | 0.00 |
| Tuolumne River | 0.213 | 0.00 |
| Tuolumne River | 0.244 | 0.06 |
| Tuolumne River | 0.274 | 0.17 |
| Tuolumne River | 0.320 | 0.36 |
| Tuolumne River | 0.381 | 0.42 |
| Tuolumne River | 0.427 | 1.00 |
| Tuolumne River | 0.792 | 1.00 |
| Tuolumne River | 0.823 | 0.62 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Tuolumne River | 0.853 | 0.56 |
| Tuolumne River | 0.884 | 0.45 |
| Tuolumne River | 0.930 | 0.22 |
| Tuolumne River | 0.975 | 0.17 |
| Tuolumne River | 1.158 | 0.07 |
| Tuolumne River | 1.341 | 0.00 |
| Tuolumne River | 30.480 | 0.00 |
| Battle Creek | 0.000 | 0.00 |
| Battle Creek | 0.213 | 0.00 |
| Battle Creek | 0.229 | 0.03 |
| Battle Creek | 0.290 | 0.22 |
| Battle Creek | 0.351 | 0.75 |
| Battle Creek | 0.442 | 1.00 |
| Battle Creek | 0.594 | 0.73 |
| Battle Creek | 0.747 | 0.48 |
| Battle Creek | 0.838 | 0.25 |
| Battle Creek | 1.113 | 0.04 |
| Battle Creek | 1.219 | 0.00 |
| Battle Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 0.00 |
| Feather River | 0.030 | 0.00 |
| Feather River | 0.152 | 0.02 |
| Feather River | 0.213 | 0.10 |
| Feather River | 0.274 | 0.20 |
| Feather River | 0.366 | 0.50 |
| Feather River | 0.457 | 1.00 |
| Feather River | 0.884 | 1.00 |
| Feather River | 1.006 | 0.50 |
| Feather River | 1.189 | 0.20 |

| Location | Velocity | HSI |
|------------------------------|-----------------|------------|
| Feather River | 1.219 | 0.10 |
| Feather River | 1.463 | 0.02 |
| Feather River | 1.524 | 0.00 |
| Feather River | 30.480 | 0.00 |
| Yuba River Beak | 0.00 | 0.10 |
| Yuba River Beak | 0.107 | 0.10 |
| Yuba River Beak | 0.259 | 0.20 |
| Yuba River Beak | 0.381 | 0.50 |
| Yuba River Beak | 0.472 | 1.00 |
| Yuba River Beak | 0.899 | 1.00 |
| Yuba River Beak | 0.991 | 0.50 |
| Yuba River Beak | 1.173 | 0.20 |
| Yuba River Beak | 1.356 | 0.10 |
| Yuba River Beak | 1.417 | 0.00 |
| Yuba River Beak | 30.480 | 0.00 |
| Mokelumne River Envirosphere | 0.000 | 0.00 |
| Mokelumne River Envirosphere | 0.030 | 0.01 |
| Mokelumne River Envirosphere | 0.091 | 0.02 |
| Mokelumne River Envirosphere | 0.152 | 0.06 |
| Mokelumne River Envirosphere | 0.213 | 0.13 |
| Mokelumne River Envirosphere | 0.274 | 0.20 |
| Mokelumne River Envirosphere | 0.335 | 0.26 |
| Mokelumne River Envirosphere | 0.396 | 0.31 |
| Mokelumne River Envirosphere | 0.457 | 0.34 |
| Mokelumne River Envirosphere | 0.518 | 0.40 |
| Mokelumne River Envirosphere | 0.579 | 0.49 |
| Mokelumne River Envirosphere | 0.640 | 0.62 |
| Mokelumne River Envirosphere | 0.701 | 0.78 |
| Mokelumne River Envirosphere | 0.762 | 0.92 |

| Location | Velocity | HSI |
|------------------------------|-----------------|------------|
| Mokelumne River Envirosphere | 0.823 | 1.00 |
| Mokelumne River Envirosphere | 0.884 | 0.98 |
| Mokelumne River Envirosphere | 0.945 | 0.93 |
| Mokelumne River Envirosphere | 1.006 | 0.90 |
| Mokelumne River Envirosphere | 1.067 | 0.75 |
| Mokelumne River Envirosphere | 1.128 | 0.64 |
| Mokelumne River Envirosphere | 1.189 | 0.44 |
| Mokelumne River Envirosphere | 1.250 | 0.33 |
| Mokelumne River Envirosphere | 1.311 | 0.26 |
| Mokelumne River Envirosphere | 1.372 | 0.20 |
| Mokelumne River Envirosphere | 1.433 | 0.15 |
| Mokelumne River Envirosphere | 1.494 | 0.07 |
| Mokelumne River Envirosphere | 1.554 | 0.00 |
| Mokelumne River Envirosphere | 30.480 | 0.00 |
| Mokelumne River EBMUD | 0.000 | 0.00 |
| Mokelumne River EBMUD | 0.061 | 0.03 |
| Mokelumne River EBMUD | 0.122 | 0.03 |
| Mokelumne River EBMUD | 0.183 | 0.18 |
| Mokelumne River EBMUD | 0.244 | 0.21 |
| Mokelumne River EBMUD | 0.305 | 0.50 |
| Mokelumne River EBMUD | 0.366 | 0.71 |
| Mokelumne River EBMUD | 0.427 | 0.95 |
| Mokelumne River EBMUD | 0.488 | 1.00 |
| Mokelumne River EBMUD | 0.671 | 1.00 |
| Mokelumne River EBMUD | 0.732 | 0.79 |
| Mokelumne River EBMUD | 0.914 | 0.58 |
| Mokelumne River EBMUD | 0.975 | 0.37 |
| Mokelumne River EBMUD | 1.036 | 0.16 |
| Mokelumne River EBMUD | 1.097 | 0.13 |

| Location | Velocity | HSI |
|-----------------------|-----------------|------------|
| Mokelumne River EBMUD | 1.158 | 0.08 |
| Mokelumne River EBMUD | 1.219 | 0.08 |
| Mokelumne River EBMUD | 1.280 | 0.05 |
| Mokelumne River EBMUD | 1.341 | 0.00 |
| Mokelumne River EBMUD | 30.480 | 0.00 |

Appendix III. Chinook Salmon spawning substrate codes (S) and Habitat Suitability Index (HSI).

| Location | S | HSI |
|-------------------------|----------|------------|
| American River | 0.1 | 0.00 |
| American River | 1 | 0.00 |
| American River | 1.2 | 0.36 |
| American River | 1.3 | 1.00 |
| American River | 1.4 | 0.97 |
| American River | 2.4 | 0.97 |
| American River | 3.4 | 0.53 |
| American River | 3.5 | 0.28 |
| American River | 4.6 | 0.00 |
| American River | 6.8 | 0.00 |
| American River | 8 | 0.00 |
| American River | 9 | 0.00 |
| American River | 10 | 0.00 |
| Sacramento River (fall) | 0.1 | 0.00 |
| Sacramento River (fall) | 1 | 0.00 |
| Sacramento River (fall) | 1.2 | 0.33 |
| Sacramento River (fall) | 1.3 | 0.91 |
| Sacramento River (fall) | 1.4 | 0.96 |
| Sacramento River (fall) | 2.4 | 1.00 |
| Sacramento River (fall) | 3.4 | 0.76 |
| Sacramento River (fall) | 3.5 | 0.53 |
| Sacramento River (fall) | 4.5 | 0.35 |
| Sacramento River (fall) | 4.6 | 0.16 |
| Sacramento River (fall) | 6.8 | 0.00 |
| Sacramento River (fall) | 8 | 0.00 |
| Sacramento River (fall) | 9 | 0.00 |
| Sacramento River (fall) | 10 | 0.00 |

| Location | S | HSI |
|------------------------------|----------|------------|
| Sacramento River (late-fall) | 0.1 | 0.00 |
| Sacramento River (late-fall) | 1 | 0.00 |
| Sacramento River (late-fall) | 1.2 | 0.02 |
| Sacramento River (late-fall) | 1.3 | 0.25 |
| Sacramento River (late-fall) | 1.4 | 0.84 |
| Sacramento River (late-fall) | 2.4 | 0.92 |
| Sacramento River (late-fall) | 3.4 | 1.00 |
| Sacramento River (late-fall) | 3.5 | 0.81 |
| Sacramento River (late-fall) | 4.5 | 0.62 |
| Sacramento River (late-fall) | 4.6 | 0.53 |
| Sacramento River (late-fall) | 6.8 | 0.44 |
| Sacramento River (late-fall) | 8 | 0.02 |
| Sacramento River (late-fall) | 9 | 0.00 |
| Sacramento River (late-fall) | 10 | 0.00 |
| Sacramento River (winter) | 0.1 | 0.00 |
| Sacramento River (winter) | 1 | 0.01 |
| Sacramento River (winter) | 1.2 | 0.14 |
| Sacramento River (winter) | 1.3 | 0.66 |
| Sacramento River (winter) | 1.4 | 0.83 |
| Sacramento River (winter) | 2.4 | 1.00 |
| Sacramento River (winter) | 3.4 | 0.81 |
| Sacramento River (winter) | 3.5 | 0.62 |
| Sacramento River (winter) | 4.5 | 0.43 |
| Sacramento River (winter) | 4.6 | 0.24 |
| Sacramento River (winter) | 6.8 | 0.00 |
| Sacramento River (winter) | 8 | 0.00 |
| Sacramento River (winter) | 9 | 0.00 |

| Location | S | HSI |
|---------------------------|----------|------------|
| Sacramento River (winter) | 10 | 0.00 |
| Yuba River (spring) | 0.1 | 0.00 |
| Yuba River (spring) | 1 | 0.00 |
| Yuba River (spring) | 1.2 | 0.00 |
| Yuba River (spring) | 1.3 | 0.31 |
| Yuba River (spring) | 2.4 | 1.00 |
| Yuba River (spring) | 3.5 | 0.14 |
| Yuba River (spring) | 4.6 | 0.12 |
| Yuba River (spring) | 6.8 | 0.00 |
| Yuba River (spring) | 8 | 0.00 |
| Yuba River (spring) | 9 | 0.00 |
| Yuba River (spring) | 10 | 0.00 |
| Yuba River (fall) | 0.1 | 0.00 |
| Yuba River (fall) | 1 | 0.00 |
| Yuba River (fall) | 1.2 | 0.05 |
| Yuba River (fall) | 1.3 | 0.58 |
| Yuba River (fall) | 2.4 | 1.00 |
| Yuba River (fall) | 3.5 | 0.65 |
| Yuba River (fall) | 4.6 | 0.29 |
| Yuba River (fall) | 6.8 | 0.01 |
| Yuba River (fall) | 8 | 0.00 |
| Yuba River (fall) | 9 | 0.00 |
| Yuba River (fall) | 10 | 0.00 |
| Clear Creek (spring) | 0.1 | 0.00 |
| Clear Creek (spring) | 1 | 0.00 |
| Clear Creek (spring) | 1.2 | 0.19 |
| Clear Creek (spring) | 1.3 | 0.64 |
| Clear Creek (spring) | 2.3 | 0.82 |
| Clear Creek (spring) | 2.4 | 1.00 |

| Location | S | HSI |
|----------------------|----------|------------|
| Clear Creek (spring) | 3.4 | 0.56 |
| Clear Creek (spring) | 3.5 | 0.12 |
| Clear Creek (spring) | 4.6 | 0.01 |
| Clear Creek (spring) | 6.8 | 0.00 |
| Clear Creek (spring) | 8 | 0.00 |
| Clear Creek (spring) | 9 | 0.00 |
| Clear Creek (spring) | 10 | 0.00 |
| Clear Creek (fall) | 0.1 | 0.00 |
| Clear Creek (fall) | 1 | 0.00 |
| Clear Creek (fall) | 1.2 | 0.05 |
| Clear Creek (fall) | 1.3 | 1.00 |
| Clear Creek (fall) | 2.4 | 0.60 |
| Clear Creek (fall) | 3.5 | 0.03 |
| Clear Creek (fall) | 4.6 | 0.03 |
| Clear Creek (fall) | 6.8 | 0.00 |
| Clear Creek (fall) | 8 | 0.00 |
| Clear Creek (fall) | 9 | 0.00 |
| Clear Creek (fall) | 10 | 0.00 |
| Butte Creek | 0.1 | 0.00 |
| Butte Creek | 1 | 0.00 |
| Butte Creek | 1.2 | 0.10 |
| Butte Creek | 1.3 | 1.00 |
| Butte Creek | 2.4 | 0.99 |
| Butte Creek | 3.5 | 0.73 |
| Butte Creek | 4.6 | 0.47 |
| Butte Creek | 6.8 | 0.00 |
| Butte Creek | 8 | 0.00 |
| Butte Creek | 9 | 0.00 |
| Butte Creek | 10 | 0.00 |

| Location | S | HSI |
|------------------|----------|------------|
| Merced River | 0.1 | 0.00 |
| Merced River | 1 | 0.08 |
| Merced River | 1.2 | 0.71 |
| Merced River | 2.4 | 1.00 |
| Merced River | 4.6 | 0.00 |
| Merced River | 6.8 | 0.00 |
| Merced River | 8 | 0.00 |
| Merced River | 9 | 0.00 |
| Merced River | 10 | 0.00 |
| Stanislaus River | 0.1 | 0.00 |
| Stanislaus River | 1 | 0.97 |
| Stanislaus River | 1.2 | 1.00 |
| Stanislaus River | 2.3 | 0.91 |
| Stanislaus River | 3.5 | 0.85 |
| Stanislaus River | 4.6 | 0.85 |
| Stanislaus River | 6.8 | 0.79 |
| Stanislaus River | 8 | 0.65 |
| Stanislaus River | 9 | 0.00 |
| Stanislaus River | 10 | 0.65 |
| Tuolumne River | 0.1 | 0.00 |
| Tuolumne River | 1 | 0.26 |
| Tuolumne River | 1.2 | 1.00 |
| Tuolumne River | 2.4 | 1.00 |
| Tuolumne River | 4.6 | 0.30 |
| Tuolumne River | 6.8 | 0.00 |
| Tuolumne River | 8 | 0.00 |
| Tuolumne River | 9 | 0.00 |
| Tuolumne River | 10 | 0.00 |
| Battle Creek | 0.1 | 0.00 |

| Location | S | HSI |
|-----------------|----------|------------|
| Battle Creek | 1 | 0.35 |
| Battle Creek | 1.2 | 0.82 |
| Battle Creek | 2.3 | 1.00 |
| Battle Creek | 3.5 | 0.71 |
| Battle Creek | 4.6 | 0.71 |
| Battle Creek | 6.8 | 0.06 |
| Battle Creek | 8 | 0.00 |
| Battle Creek | 9 | 0.00 |
| Battle Creek | 10 | 0.00 |
| Feather River | 0.1 | 0.00 |
| Feather River | 1 | 0.00 |
| Feather River | 1.2 | 1.00 |
| Feather River | 2.3 | 1.00 |
| Feather River | 3.5 | 1.00 |
| Feather River | 4.6 | 1.00 |
| Feather River | 6.8 | 0.00 |
| Feather River | 8 | 0.00 |
| Feather River | 9 | 0.00 |
| Feather River | 10 | 0.00 |
| Yuba River Beak | 0.1 | 0.02 |
| Yuba River Beak | 1 | 0.07 |
| Yuba River Beak | 1.2 | 0.50 |
| Yuba River Beak | 2.3 | 0.85 |
| Yuba River Beak | 3.5 | 1.00 |
| Yuba River Beak | 4.6 | 1.00 |
| Yuba River Beak | 6.8 | 0.37 |
| Yuba River Beak | 8 | 0.02 |
| Yuba River Beak | 9 | 0.00 |
| Yuba River Beak | 10 | 0.00 |

| Location | S | HSI |
|-----------------|----------|------------|
| Mokelumne River | 0.1 | 0.00 |
| Mokelumne River | 1 | 1.00 |
| Mokelumne River | 1.2 | 1.00 |
| Mokelumne River | 2.4 | 1.00 |
| Mokelumne River | 4.6 | 0.51 |
| Mokelumne River | 6.8 | 0.51 |
| Mokelumne River | 8 | 0.51 |
| Mokelumne River | 9 | 0.00 |
| Mokelumne River | 10 | 0.51 |

Appendix IV. Chinook Salmon fry rearing depth (m) and Habitat Suitability Index (HSI).

| Location | Depth | HSI |
|------------------------------|--------------|------------|
| American River | 0.030 | 0.00 |
| American River | 0.213 | 1.00 |
| American River | 0.305 | 1.00 |
| American River | 0.366 | 0.75 |
| American River | 0.610 | 0.50 |
| American River | 0.914 | 0.15 |
| American River | 1.219 | 0.10 |
| American River | 3.048 | 0.01 |
| American River | 3.100 | 0.00 |
| American River | 30.480 | 0.00 |
| Sacramento River (fall) | 0.030 | 0.00 |
| Sacramento River (fall) | 0.061 | 0.82 |
| Sacramento River (fall) | 0.213 | 0.94 |
| Sacramento River (fall) | 0.396 | 1.00 |
| Sacramento River (fall) | 0.549 | 1.00 |
| Sacramento River (fall) | 0.762 | 0.93 |
| Sacramento River (fall) | 0.914 | 0.85 |
| Sacramento River (fall) | 1.524 | 0.37 |
| Sacramento River (fall) | 1.829 | 0.19 |
| Sacramento River (fall) | 2.134 | 0.10 |
| Sacramento River (fall) | 2.438 | 0.05 |
| Sacramento River (fall) | 3.048 | 0.02 |
| Sacramento River (fall) | 3.962 | 0.02 |
| Sacramento River (fall) | 4.572 | 0.04 |
| Sacramento River (fall) | 5.029 | 0.04 |
| Sacramento River (fall) | 5.669 | 0.01 |
| Sacramento River (fall) | 5.700 | 0.00 |
| Sacramento River (fall) | 30.480 | 0.00 |
| Sacramento River (late-fall) | 0.030 | 0.00 |
| Sacramento River (late-fall) | 0.061 | 0.84 |

| Location | Depth | HSI |
|------------------------------|--------------|------------|
| Sacramento River (late-fall) | 0.183 | 0.96 |
| Sacramento River (late-fall) | 0.305 | 1.00 |
| Sacramento River (late-fall) | 0.366 | 1.00 |
| Sacramento River (late-fall) | 0.488 | 0.96 |
| Sacramento River (late-fall) | 0.610 | 0.87 |
| Sacramento River (late-fall) | 0.762 | 0.48 |
| Sacramento River (late-fall) | 0.914 | 0.25 |
| Sacramento River (late-fall) | 1.067 | 0.10 |
| Sacramento River (late-fall) | 1.219 | 0.04 |
| Sacramento River (late-fall) | 1.372 | 0.01 |
| Sacramento River (late-fall) | 5.273 | 0.00 |
| Sacramento River (late-fall) | 30.480 | 0.00 |
| Sacramento River (winter) | 0.030 | 0.00 |
| Sacramento River (winter) | 0.061 | 0.71 |
| Sacramento River (winter) | 0.152 | 0.89 |
| Sacramento River (winter) | 0.274 | 1.00 |
| Sacramento River (winter) | 0.335 | 1.00 |
| Sacramento River (winter) | 0.427 | 0.95 |
| Sacramento River (winter) | 0.488 | 0.89 |
| Sacramento River (winter) | 0.914 | 0.24 |
| Sacramento River (winter) | 1.067 | 0.12 |
| Sacramento River (winter) | 1.219 | 0.06 |
| Sacramento River (winter) | 1.524 | 0.02 |
| Sacramento River (winter) | 2.134 | 0.02 |
| Sacramento River (winter) | 2.743 | 0.08 |
| Sacramento River (winter) | 2.896 | 0.08 |
| Sacramento River (winter) | 3.109 | 0.05 |
| Sacramento River (winter) | 3.139 | 0.00 |
| Sacramento River (winter) | 30.480 | 0.00 |
| Yuba River (fall/spring) | 0.000 | 0.00 |

| Location | Depth | HSI |
|--------------------------|--------------|------------|
| Yuba River (fall/spring) | 0.030 | 0.00 |
| Yuba River (fall/spring) | 0.061 | 0.80 |
| Yuba River (fall/spring) | 0.091 | 0.84 |
| Yuba River (fall/spring) | 0.152 | 0.90 |
| Yuba River (fall/spring) | 0.183 | 0.92 |
| Yuba River (fall/spring) | 0.213 | 0.95 |
| Yuba River (fall/spring) | 0.244 | 0.96 |
| Yuba River (fall/spring) | 0.274 | 0.98 |
| Yuba River (fall/spring) | 0.335 | 1.00 |
| Yuba River (fall/spring) | 0.427 | 1.00 |
| Yuba River (fall/spring) | 0.518 | 0.97 |
| Yuba River (fall/spring) | 0.671 | 0.87 |
| Yuba River (fall/spring) | 0.762 | 0.78 |
| Yuba River (fall/spring) | 0.792 | 0.76 |
| Yuba River (fall/spring) | 0.823 | 0.73 |
| Yuba River (fall/spring) | 0.853 | 0.69 |
| Yuba River (fall/spring) | 1.067 | 0.48 |
| Yuba River (fall/spring) | 1.097 | 0.46 |
| Yuba River (fall/spring) | 1.158 | 0.40 |
| Yuba River (fall/spring) | 1.189 | 0.38 |
| Yuba River (fall/spring) | 1.219 | 0.35 |
| Yuba River (fall/spring) | 1.402 | 0.23 |
| Yuba River (fall/spring) | 1.433 | 0.22 |
| Yuba River (fall/spring) | 1.463 | 0.20 |
| Yuba River (fall/spring) | 1.494 | 0.19 |
| Yuba River (fall/spring) | 1.524 | 0.17 |
| Yuba River (fall/spring) | 1.737 | 0.10 |
| Yuba River (fall/spring) | 1.768 | 0.10 |
| Yuba River (fall/spring) | 1.829 | 0.08 |
| Yuba River (fall/spring) | 1.859 | 0.08 |
| Yuba River (fall/spring) | 1.890 | 0.07 |

| Location | Depth | HSI |
|--------------------------|--------------|------------|
| Yuba River (fall/spring) | 1.920 | 0.07 |
| Yuba River (fall/spring) | 1.951 | 0.06 |
| Yuba River (fall/spring) | 1.981 | 0.06 |
| Yuba River (fall/spring) | 2.012 | 0.05 |
| Yuba River (fall/spring) | 2.103 | 0.05 |
| Yuba River (fall/spring) | 2.134 | 0.04 |
| Yuba River (fall/spring) | 2.225 | 0.04 |
| Yuba River (fall/spring) | 2.256 | 0.03 |
| Yuba River (fall/spring) | 2.438 | 0.03 |
| Yuba River (fall/spring) | 2.469 | 0.02 |
| Yuba River (fall/spring) | 5.608 | 0.02 |
| Yuba River (fall/spring) | 5.639 | 0.00 |
| Yuba River (fall/spring) | 30.480 | 0.00 |
| Clear Creek (spring) | 0.000 | 0.00 |
| Clear Creek (spring) | 0.030 | 1.00 |
| Clear Creek (spring) | 0.061 | 0.95 |
| Clear Creek (spring) | 0.091 | 0.89 |
| Clear Creek (spring) | 0.122 | 0.84 |
| Clear Creek (spring) | 0.152 | 0.78 |
| Clear Creek (spring) | 0.183 | 0.73 |
| Clear Creek (spring) | 0.213 | 0.68 |
| Clear Creek (spring) | 0.244 | 0.63 |
| Clear Creek (spring) | 0.274 | 0.58 |
| Clear Creek (spring) | 0.305 | 0.53 |
| Clear Creek (spring) | 0.335 | 0.48 |
| Clear Creek (spring) | 0.366 | 0.44 |
| Clear Creek (spring) | 0.396 | 0.40 |
| Clear Creek (spring) | 0.427 | 0.36 |
| Clear Creek (spring) | 0.457 | 0.33 |
| Clear Creek (spring) | 0.488 | 0.30 |
| Clear Creek (spring) | 0.518 | 0.27 |

| Location | Depth | HSI |
|----------------------|--------------|------------|
| Clear Creek (spring) | 0.549 | 0.24 |
| Clear Creek (spring) | 0.579 | 0.21 |
| Clear Creek (spring) | 0.610 | 0.19 |
| Clear Creek (spring) | 0.640 | 0.17 |
| Clear Creek (spring) | 0.671 | 0.15 |
| Clear Creek (spring) | 0.701 | 0.14 |
| Clear Creek (spring) | 0.732 | 0.12 |
| Clear Creek (spring) | 0.762 | 0.11 |
| Clear Creek (spring) | 0.792 | 0.10 |
| Clear Creek (spring) | 0.823 | 0.09 |
| Clear Creek (spring) | 0.853 | 0.08 |
| Clear Creek (spring) | 0.884 | 0.07 |
| Clear Creek (spring) | 0.914 | 0.06 |
| Clear Creek (spring) | 0.945 | 0.05 |
| Clear Creek (spring) | 0.975 | 0.05 |
| Clear Creek (spring) | 1.006 | 0.04 |
| Clear Creek (spring) | 1.036 | 0.04 |
| Clear Creek (spring) | 1.067 | 0.03 |
| Clear Creek (spring) | 1.128 | 0.03 |
| Clear Creek (spring) | 1.158 | 0.02 |
| Clear Creek (spring) | 1.219 | 0.02 |
| Clear Creek (spring) | 1.250 | 0.00 |
| Clear Creek (spring) | 30.480 | 0.00 |
| Clear Creek (fall) | 0.000 | 0.00 |
| Clear Creek (fall) | 0.030 | 0.94 |
| Clear Creek (fall) | 0.061 | 0.97 |
| Clear Creek (fall) | 0.091 | 0.98 |
| Clear Creek (fall) | 0.122 | 1.00 |
| Clear Creek (fall) | 0.152 | 1.00 |
| Clear Creek (fall) | 0.183 | 1.00 |
| Clear Creek (fall) | 0.213 | 0.99 |

| Location | Depth | HSI |
|--------------------|--------------|------------|
| Clear Creek (fall) | 0.244 | 0.99 |
| Clear Creek (fall) | 0.274 | 0.97 |
| Clear Creek (fall) | 0.305 | 0.96 |
| Clear Creek (fall) | 0.335 | 0.94 |
| Clear Creek (fall) | 0.366 | 0.92 |
| Clear Creek (fall) | 1.433 | 0.92 |
| Clear Creek (fall) | 1.463 | 0.91 |
| Clear Creek (fall) | 1.494 | 0.90 |
| Clear Creek (fall) | 1.524 | 0.89 |
| Clear Creek (fall) | 1.554 | 0.87 |
| Clear Creek (fall) | 1.585 | 0.84 |
| Clear Creek (fall) | 1.615 | 0.80 |
| Clear Creek (fall) | 1.646 | 0.76 |
| Clear Creek (fall) | 1.676 | 0.70 |
| Clear Creek (fall) | 1.707 | 0.64 |
| Clear Creek (fall) | 1.737 | 0.57 |
| Clear Creek (fall) | 1.768 | 0.49 |
| Clear Creek (fall) | 1.798 | 0.41 |
| Clear Creek (fall) | 1.829 | 0.33 |
| Clear Creek (fall) | 1.859 | 0.00 |
| Clear Creek (fall) | 30.480 | 0.00 |
| Stanislaus River | 0.000 | 0.00 |
| Stanislaus River | 0.030 | 0.12 |
| Stanislaus River | 0.061 | 0.31 |
| Stanislaus River | 0.091 | 0.58 |
| Stanislaus River | 0.122 | 0.85 |
| Stanislaus River | 0.152 | 0.99 |
| Stanislaus River | 0.183 | 1.00 |
| Stanislaus River | 0.213 | 0.91 |
| Stanislaus River | 0.244 | 0.80 |
| Stanislaus River | 0.274 | 0.66 |

| Location | Depth | HSI |
|------------------|--------------|------------|
| Stanislaus River | 0.305 | 0.55 |
| Stanislaus River | 0.335 | 0.47 |
| Stanislaus River | 0.366 | 0.43 |
| Stanislaus River | 0.396 | 0.41 |
| Stanislaus River | 0.427 | 0.40 |
| Stanislaus River | 0.457 | 0.36 |
| Stanislaus River | 0.488 | 0.30 |
| Stanislaus River | 0.518 | 0.23 |
| Stanislaus River | 0.549 | 0.19 |
| Stanislaus River | 0.579 | 0.16 |
| Stanislaus River | 0.610 | 0.16 |
| Stanislaus River | 0.640 | 0.14 |
| Stanislaus River | 0.671 | 0.11 |
| Stanislaus River | 0.701 | 0.09 |
| Stanislaus River | 0.732 | 0.07 |
| Stanislaus River | 0.762 | 0.06 |
| Stanislaus River | 0.792 | 0.05 |
| Stanislaus River | 0.823 | 0.05 |
| Stanislaus River | 0.853 | 0.04 |
| Stanislaus River | 0.884 | 0.04 |
| Stanislaus River | 0.914 | 0.03 |
| Stanislaus River | 0.945 | 0.02 |
| Stanislaus River | 1.951 | 0.02 |
| Stanislaus River | 1.981 | 0.01 |
| Stanislaus River | 2.000 | 0.00 |
| Stanislaus River | 30.480 | 0.00 |
| Tuolumne River | 0.000 | 0.00 |
| Tuolumne River | 0.030 | 0.05 |
| Tuolumne River | 0.061 | 0.12 |
| Tuolumne River | 0.091 | 0.24 |
| Tuolumne River | 0.122 | 0.41 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Tuolumne River | 0.152 | 0.61 |
| Tuolumne River | 0.183 | 0.79 |
| Tuolumne River | 0.213 | 0.94 |
| Tuolumne River | 0.244 | 1.00 |
| Tuolumne River | 0.274 | 1.00 |
| Tuolumne River | 0.305 | 0.92 |
| Tuolumne River | 0.335 | 0.80 |
| Tuolumne River | 0.366 | 0.66 |
| Tuolumne River | 0.396 | 0.55 |
| Tuolumne River | 0.427 | 0.45 |
| Tuolumne River | 0.457 | 0.38 |
| Tuolumne River | 0.488 | 0.32 |
| Tuolumne River | 0.518 | 0.26 |
| Tuolumne River | 0.549 | 0.21 |
| Tuolumne River | 0.579 | 0.15 |
| Tuolumne River | 0.610 | 0.10 |
| Tuolumne River | 0.640 | 0.07 |
| Tuolumne River | 0.732 | 0.07 |
| Tuolumne River | 0.762 | 0.06 |
| Tuolumne River | 0.792 | 0.05 |
| Tuolumne River | 0.823 | 0.04 |
| Tuolumne River | 0.853 | 0.03 |
| Tuolumne River | 0.884 | 0.02 |
| Tuolumne River | 0.914 | 0.02 |
| Tuolumne River | 0.945 | 0.01 |
| Tuolumne River | 0.975 | 0.01 |
| Tuolumne River | 1.006 | 0.00 |
| Tuolumne River | 30.480 | 0.00 |
| Battle Creek | 0.000 | 0.00 |
| Battle Creek | 0.015 | 0.10 |
| Battle Creek | 0.046 | 0.29 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Battle Creek | 0.076 | 0.45 |
| Battle Creek | 0.107 | 0.59 |
| Battle Creek | 0.137 | 0.71 |
| Battle Creek | 0.168 | 0.80 |
| Battle Creek | 0.198 | 0.88 |
| Battle Creek | 0.229 | 0.93 |
| Battle Creek | 0.259 | 0.97 |
| Battle Creek | 0.290 | 0.99 |
| Battle Creek | 0.320 | 1.00 |
| Battle Creek | 0.351 | 0.99 |
| Battle Creek | 0.381 | 0.98 |
| Battle Creek | 0.411 | 0.95 |
| Battle Creek | 0.442 | 0.91 |
| Battle Creek | 0.472 | 0.86 |
| Battle Creek | 0.503 | 0.81 |
| Battle Creek | 0.533 | 0.75 |
| Battle Creek | 0.564 | 0.68 |
| Battle Creek | 0.594 | 0.61 |
| Battle Creek | 0.625 | 0.54 |
| Battle Creek | 0.655 | 0.47 |
| Battle Creek | 0.686 | 0.40 |
| Battle Creek | 0.716 | 0.33 |
| Battle Creek | 0.747 | 0.27 |
| Battle Creek | 0.777 | 0.20 |
| Battle Creek | 0.808 | 0.15 |
| Battle Creek | 0.838 | 0.10 |
| Battle Creek | 0.869 | 0.06 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Battle Creek | 1.052 | 0.06 |
| Battle Creek | 1.082 | 0.00 |
| Battle Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 0.00 |
| Feather River | 0.061 | 0.17 |
| Feather River | 0.183 | 0.94 |
| Feather River | 0.274 | 1.00 |
| Feather River | 0.396 | 0.72 |
| Feather River | 0.518 | 0.43 |
| Feather River | 0.640 | 0.22 |
| Feather River | 0.732 | 0.12 |
| Feather River | 0.853 | 0.06 |
| Feather River | 0.975 | 0.03 |
| Feather River | 1.097 | 0.01 |
| Feather River | 1.554 | 0.01 |
| Feather River | 1.768 | 0.00 |
| Feather River | 30.480 | 0.00 |
| Yuba River Beak | 0.076 | 0.00 |
| Yuba River Beak | 0.107 | 0.10 |
| Yuba River Beak | 0.137 | 0.50 |
| Yuba River Beak | 0.229 | 1.00 |
| Yuba River Beak | 0.442 | 1.00 |
| Yuba River Beak | 0.655 | 0.50 |
| Yuba River Beak | 0.686 | 0.20 |
| Yuba River Beak | 0.869 | 0.10 |
| Yuba River Beak | 0.991 | 0.00 |
| Yuba River Beak | 30.480 | 0.00 |

Appendix V. Chinook Salmon fry mean water column velocity (m/s) and Habitat Suitability Index (HSI).

| Location | Velocity | HSI |
|------------------------------|-----------------|------------|
| American River | 0.000 | 0.50 |
| American River | 0.046 | 1.00 |
| American River | 0.091 | 1.00 |
| American River | 0.122 | 0.50 |
| American River | 0.305 | 0.30 |
| American River | 0.457 | 0.18 |
| American River | 0.610 | 0.10 |
| American River | 1.067 | 0.00 |
| American River | 30.480 | 0.00 |
| Sacramento River (fall) | 0.000 | 0.86 |
| Sacramento River (fall) | 0.030 | 0.96 |
| Sacramento River (fall) | 0.061 | 1.00 |
| Sacramento River (fall) | 0.076 | 1.00 |
| Sacramento River (fall) | 0.122 | 0.95 |
| Sacramento River (fall) | 0.183 | 0.77 |
| Sacramento River (fall) | 0.274 | 0.40 |
| Sacramento River (fall) | 0.335 | 0.22 |
| Sacramento River (fall) | 0.396 | 0.13 |
| Sacramento River (fall) | 0.488 | 0.06 |
| Sacramento River (fall) | 0.774 | 0.02 |
| Sacramento River (fall) | 0.777 | 0.00 |
| Sacramento River (fall) | 30.480 | 0.00 |
| Sacramento River (late-fall) | 0.000 | 1.00 |
| Sacramento River (late-fall) | 0.061 | 0.98 |
| Sacramento River (late-fall) | 0.091 | 0.95 |
| Sacramento River (late-fall) | 0.183 | 0.79 |

| Location | Velocity | HSI |
|------------------------------|-----------------|------------|
| Sacramento River (late-fall) | 0.366 | 0.30 |
| Sacramento River (late-fall) | 0.427 | 0.18 |
| Sacramento River (late-fall) | 0.488 | 0.10 |
| Sacramento River (late-fall) | 0.549 | 0.05 |
| Sacramento River (late-fall) | 0.671 | 0.01 |
| Sacramento River (late-fall) | 0.732 | 0.01 |
| Sacramento River (late-fall) | 0.796 | 0.00 |
| Sacramento River (late-fall) | 30.480 | 0.00 |
| Sacramento River (winter) | 0.000 | 1.00 |
| Sacramento River (winter) | 0.030 | 0.99 |
| Sacramento River (winter) | 0.091 | 0.92 |
| Sacramento River (winter) | 0.152 | 0.79 |
| Sacramento River (winter) | 0.335 | 0.27 |
| Sacramento River (winter) | 0.396 | 0.15 |
| Sacramento River (winter) | 0.457 | 0.08 |
| Sacramento River (winter) | 0.518 | 0.04 |
| Sacramento River (winter) | 0.610 | 0.01 |
| Sacramento River (winter) | 0.671 | 0.01 |
| Sacramento River (winter) | 0.786 | 0.00 |
| Sacramento River (winter) | 30.480 | 0.00 |
| Yuba River (fall/spring) | 0.000 | 1.00 |
| Yuba River (fall/spring) | 0.030 | 0.99 |
| Yuba River (fall/spring) | 0.061 | 0.95 |
| Yuba River (fall/spring) | 0.091 | 0.89 |
| Yuba River (fall/spring) | 0.122 | 0.81 |
| Yuba River (fall/spring) | 0.183 | 0.65 |

| Location | Velocity | HSI |
|--------------------------|-----------------|------------|
| Yuba River (fall/spring) | 0.213 | 0.56 |
| Yuba River (fall/spring) | 0.244 | 0.49 |
| Yuba River (fall/spring) | 0.274 | 0.42 |
| Yuba River (fall/spring) | 0.335 | 0.30 |
| Yuba River (fall/spring) | 0.396 | 0.22 |
| Yuba River (fall/spring) | 0.427 | 0.19 |
| Yuba River (fall/spring) | 0.518 | 0.13 |
| Yuba River (fall/spring) | 0.610 | 0.10 |
| Yuba River (fall/spring) | 0.640 | 0.10 |
| Yuba River (fall/spring) | 0.671 | 0.09 |
| Yuba River (fall/spring) | 0.823 | 0.09 |
| Yuba River (fall/spring) | 0.853 | 0.10 |
| Yuba River (fall/spring) | 0.884 | 0.10 |
| Yuba River (fall/spring) | 0.914 | 0.11 |
| Yuba River (fall/spring) | 0.945 | 0.11 |
| Yuba River (fall/spring) | 0.975 | 0.12 |
| Yuba River (fall/spring) | 1.036 | 0.12 |
| Yuba River (fall/spring) | 1.067 | 0.13 |
| Yuba River (fall/spring) | 1.103 | 0.13 |
| Yuba River (fall/spring) | 1.106 | 0.00 |
| Yuba River (fall/spring) | 30.480 | 0.00 |
| Clear Creek (spring) | 0.000 | 1.00 |
| Clear Creek (spring) | 0.030 | 0.84 |
| Clear Creek (spring) | 0.061 | 0.70 |
| Clear Creek (spring) | 0.091 | 0.58 |
| Clear Creek (spring) | 0.122 | 0.48 |
| Clear Creek (spring) | 0.152 | 0.40 |
| Clear Creek (spring) | 0.183 | 0.33 |
| Clear Creek (spring) | 0.213 | 0.28 |

| Location | Velocity | HSI |
|----------------------|-----------------|------------|
| Clear Creek (spring) | 0.244 | 0.24 |
| Clear Creek (spring) | 0.274 | 0.20 |
| Clear Creek (spring) | 0.305 | 0.18 |
| Clear Creek (spring) | 0.335 | 0.16 |
| Clear Creek (spring) | 0.366 | 0.14 |
| Clear Creek (spring) | 0.396 | 0.13 |
| Clear Creek (spring) | 0.427 | 0.12 |
| Clear Creek (spring) | 0.457 | 0.11 |
| Clear Creek (spring) | 0.488 | 0.10 |
| Clear Creek (spring) | 1.097 | 0.10 |
| Clear Creek (spring) | 1.100 | 0.00 |
| Clear Creek (spring) | 30.480 | 0.00 |
| Clear Creek (fall) | 0.000 | 1.00 |
| Clear Creek (fall) | 0.030 | 0.99 |
| Clear Creek (fall) | 0.061 | 0.97 |
| Clear Creek (fall) | 0.091 | 0.93 |
| Clear Creek (fall) | 0.122 | 0.88 |
| Clear Creek (fall) | 0.152 | 0.82 |
| Clear Creek (fall) | 0.183 | 0.76 |
| Clear Creek (fall) | 0.213 | 0.69 |
| Clear Creek (fall) | 0.244 | 0.62 |
| Clear Creek (fall) | 0.274 | 0.56 |
| Clear Creek (fall) | 0.305 | 0.50 |
| Clear Creek (fall) | 0.335 | 0.45 |
| Clear Creek (fall) | 0.366 | 0.41 |
| Clear Creek (fall) | 0.396 | 0.38 |
| Clear Creek (fall) | 0.427 | 0.35 |
| Clear Creek (fall) | 0.762 | 0.34 |
| Clear Creek (fall) | 0.792 | 0.34 |

| Location | Velocity | HSI |
|--------------------|-----------------|------------|
| Clear Creek (fall) | 0.823 | 0.32 |
| Clear Creek (fall) | 0.853 | 0.30 |
| Clear Creek (fall) | 0.884 | 0.27 |
| Clear Creek (fall) | 0.914 | 0.23 |
| Clear Creek (fall) | 0.945 | 0.18 |
| Clear Creek (fall) | 0.948 | 0.17 |
| Clear Creek (fall) | 0.951 | 0.00 |
| Clear Creek (fall) | 30.480 | 0.00 |
| Stanislaus River | 0.000 | 1.00 |
| Stanislaus River | 0.030 | 0.94 |
| Stanislaus River | 0.061 | 0.85 |
| Stanislaus River | 0.091 | 0.73 |
| Stanislaus River | 0.122 | 0.59 |
| Stanislaus River | 0.152 | 0.45 |
| Stanislaus River | 0.183 | 0.33 |
| Stanislaus River | 0.213 | 0.23 |
| Stanislaus River | 0.244 | 0.15 |
| Stanislaus River | 0.274 | 0.10 |
| Stanislaus River | 0.305 | 0.07 |
| Stanislaus River | 0.335 | 0.05 |
| Stanislaus River | 0.366 | 0.03 |
| Stanislaus River | 0.396 | 0.02 |
| Stanislaus River | 0.427 | 0.01 |
| Stanislaus River | 0.518 | 0.01 |
| Stanislaus River | 0.549 | 0.00 |
| Stanislaus River | 30.480 | 0.00 |
| Tuolumne River | 0.000 | 1.00 |
| Tuolumne River | 0.030 | 0.71 |
| Tuolumne River | 0.061 | 0.51 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Tuolumne River | 0.091 | 0.40 |
| Tuolumne River | 0.122 | 0.34 |
| Tuolumne River | 0.152 | 0.29 |
| Tuolumne River | 0.183 | 0.24 |
| Tuolumne River | 0.213 | 0.21 |
| Tuolumne River | 0.244 | 0.20 |
| Tuolumne River | 0.274 | 0.19 |
| Tuolumne River | 0.305 | 0.17 |
| Tuolumne River | 0.335 | 0.14 |
| Tuolumne River | 0.366 | 0.10 |
| Tuolumne River | 0.396 | 0.08 |
| Tuolumne River | 0.518 | 0.08 |
| Tuolumne River | 0.549 | 0.07 |
| Tuolumne River | 0.579 | 0.06 |
| Tuolumne River | 0.610 | 0.05 |
| Tuolumne River | 0.640 | 0.03 |
| Tuolumne River | 0.884 | 0.03 |
| Tuolumne River | 0.914 | 0.02 |
| Tuolumne River | 0.975 | 0.02 |
| Tuolumne River | 1.006 | 0.01 |
| Tuolumne River | 1.463 | 0.01 |
| Tuolumne River | 1.494 | 0.00 |
| Tuolumne River | 30.480 | 0.00 |
| Battle Creek | 0.000 | 0.61 |
| Battle Creek | 0.006 | 0.68 |
| Battle Creek | 0.021 | 0.81 |
| Battle Creek | 0.037 | 0.90 |
| Battle Creek | 0.052 | 0.96 |
| Battle Creek | 0.067 | 0.99 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Battle Creek | 0.082 | 1.00 |
| Battle Creek | 0.098 | 0.98 |
| Battle Creek | 0.113 | 0.95 |
| Battle Creek | 0.128 | 0.91 |
| Battle Creek | 0.143 | 0.85 |
| Battle Creek | 0.158 | 0.78 |
| Battle Creek | 0.174 | 0.71 |
| Battle Creek | 0.189 | 0.64 |
| Battle Creek | 0.204 | 0.56 |
| Battle Creek | 0.219 | 0.49 |
| Battle Creek | 0.235 | 0.42 |
| Battle Creek | 0.250 | 0.35 |
| Battle Creek | 0.265 | 0.29 |
| Battle Creek | 0.280 | 0.23 |
| Battle Creek | 0.296 | 0.18 |
| Battle Creek | 0.311 | 0.14 |
| Battle Creek | 0.326 | 0.11 |
| Battle Creek | 0.341 | 0.08 |
| Battle Creek | 0.357 | 0.06 |
| Battle Creek | 0.372 | 0.05 |
| Battle Creek | 0.387 | 0.05 |
| Battle Creek | 0.555 | 0.05 |
| Battle Creek | 0.570 | 0.00 |
| Battle Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 1.00 |
| Feather River | 0.030 | 1.00 |
| Feather River | 0.091 | 0.54 |
| Feather River | 0.122 | 0.27 |
| Feather River | 0.183 | 0.13 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Feather River | 0.244 | 0.06 |
| Feather River | 0.305 | 0.03 |
| Feather River | 0.335 | 0.01 |
| Feather River | 0.396 | 0.01 |
| Feather River | 0.457 | 0.00 |
| Feather River | 30.480 | 0.00 |
| Yuba River Beak | 0.000 | 0.20 |
| Yuba River Beak | 0.015 | 1.00 |
| Yuba River Beak | 0.137 | 1.00 |
| Yuba River Beak | 0.320 | 0.50 |
| Yuba River Beak | 0.381 | 0.20 |
| Yuba River Beak | 0.564 | 0.10 |
| Yuba River Beak | 0.686 | 0.00 |
| Yuba River Beak | 30.480 | 0.00 |

Appendix VI. Chinook Salmon fry rearing cover code (C) and Habitat Suitability Index (HSI).

| Location | C | HSI |
|------------------------------|----------|------------|
| Sacramento River (fall) | 0.1 | 0.24 |
| Sacramento River (fall) | 1 | 0.24 |
| Sacramento River (fall) | 2 | 0.24 |
| Sacramento River (fall) | 3 | 0.24 |
| Sacramento River (fall) | 3.7 | 1.00 |
| Sacramento River (fall) | 4 | 1.00 |
| Sacramento River (fall) | 4.7 | 1.00 |
| Sacramento River (fall) | 5 | 1.00 |
| Sacramento River (fall) | 5.7 | 1.00 |
| Sacramento River (fall) | 7 | 0.24 |
| Sacramento River (fall) | 8 | 1.00 |
| Sacramento River (fall) | 9 | 0.24 |
| Sacramento River (fall) | 9.7 | 0.24 |
| Sacramento River (fall) | 10 | 0.24 |
| Sacramento River (late-fall) | 0.1 | 0.21 |
| Sacramento River (late-fall) | 1 | 0.21 |
| Sacramento River (late-fall) | 2 | 0.39 |
| Sacramento River (late-fall) | 3 | 0.39 |
| Sacramento River (late-fall) | 3.7 | 1.00 |
| Sacramento River (late-fall) | 4 | 0.39 |
| Sacramento River (late-fall) | 4.7 | 1.00 |
| Sacramento River (late-fall) | 5 | 1.00 |
| Sacramento River (late-fall) | 5.7 | 1.00 |
| Sacramento River (late-fall) | 7 | 0.39 |
| Sacramento River (late-fall) | 8 | 1.00 |
| Sacramento River (late-fall) | 9 | 0.21 |
| Sacramento River (late-fall) | 9.7 | 0.21 |

| Location | C | HSI |
|------------------------------|----------|------------|
| Sacramento River (late-fall) | 10 | 0.39 |
| Sacramento River (winter) | 0.1 | 0.07 |
| Sacramento River (winter) | 1 | 0.07 |
| Sacramento River (winter) | 2 | 1.00 |
| Sacramento River (winter) | 3 | 1.00 |
| Sacramento River (winter) | 3.7 | 1.00 |
| Sacramento River (winter) | 4 | 1.00 |
| Sacramento River (winter) | 4.7 | 1.00 |
| Sacramento River (winter) | 5 | 1.00 |
| Sacramento River (winter) | 5.7 | 1.00 |
| Sacramento River (winter) | 7 | 1.00 |
| Sacramento River (winter) | 8 | 1.00 |
| Sacramento River (winter) | 9 | 0.07 |
| Sacramento River (winter) | 9.7 | 0.07 |
| Sacramento River (winter) | 10 | 1.00 |
| Yuba River (fall/spring) | 0.1 | 0.10 |
| Yuba River (fall/spring) | 1 | 0.25 |
| Yuba River (fall/spring) | 2 | 0.10 |
| Yuba River (fall/spring) | 3 | 0.54 |
| Yuba River (fall/spring) | 3.7 | 1.00 |
| Yuba River (fall/spring) | 4 | 1.00 |
| Yuba River (fall/spring) | 4.7 | 1.00 |
| Yuba River (fall/spring) | 5 | 1.00 |
| Yuba River (fall/spring) | 5.7 | 1.00 |
| Yuba River (fall/spring) | 7 | 0.25 |
| Yuba River (fall/spring) | 8 | 1.00 |
| Yuba River (fall/spring) | 9 | 0.25 |

| Location | C | HSI |
|--------------------------|----------|------------|
| Yuba River (fall/spring) | 9.7 | 0.10 |
| Yuba River (fall/spring) | 10 | 0.54 |
| Clear Creek (spring) | 0.1 | 0.10 |
| Clear Creek (spring) | 1 | 0.25 |
| Clear Creek (spring) | 2 | 0.10 |
| Clear Creek (spring) | 3 | 0.54 |
| Clear Creek (spring) | 3.7 | 1.00 |
| Clear Creek (spring) | 4 | 1.00 |
| Clear Creek (spring) | 4.7 | 1.00 |
| Clear Creek (spring) | 5 | 1.00 |
| Clear Creek (spring) | 5.7 | 1.00 |
| Clear Creek (spring) | 7 | 0.25 |
| Clear Creek (spring) | 8 | 1.00 |
| Clear Creek (spring) | 9 | 0.25 |
| Clear Creek (spring) | 9.7 | 0.10 |

| Location | C | HSI |
|----------------------|----------|------------|
| Clear Creek (spring) | 10 | 0.54 |
| Clear Creek (fall) | 0.1 | 0.33 |
| Clear Creek (fall) | 1 | 0.33 |
| Clear Creek (fall) | 2 | 0.33 |
| Clear Creek (fall) | 3 | 1 |
| Clear Creek (fall) | 3.7 | 1 |
| Clear Creek (fall) | 4 | 1 |
| Clear Creek (fall) | 4.7 | 1 |
| Clear Creek (fall) | 5 | 1 |
| Clear Creek (fall) | 5.7 | 1 |
| Clear Creek (fall) | 7 | 0.33 |
| Clear Creek (fall) | 8 | 1 |
| Clear Creek (fall) | 9 | 1 |
| Clear Creek (fall) | 9.7 | 1 |
| Clear Creek (fall) | 10 | 0.33 |

Appendix VII. Chinook Salmon fry rearing adjacent velocity (AV) (m/s) and Habitat Suitability Index (HSI).

| Location | AV | HSI |
|------------------------------|-----------|------------|
| Sacramento River (fall) | 0.000 | 0.56 |
| Sacramento River (fall) | 0.558 | 1.00 |
| Sacramento River (fall) | 30.480 | 1.00 |
| Sacramento River (late-fall) | 0.000 | 0.69 |
| Sacramento River (late-fall) | 0.902 | 1.00 |
| Sacramento River (late-fall) | 30.480 | 1.00 |
| Sacramento River (winter) | 0.000 | 0.54 |
| Sacramento River (winter) | 0.686 | 1.00 |
| Sacramento River (winter) | 30.480 | 1.00 |
| Yuba River (fall/spring) | 0.000 | 0.36 |
| Yuba River (fall/spring) | 1.097 | 1.00 |
| Yuba River (fall/spring) | 30.480 | 1.00 |
| Clear Creek (fall) | 0.000 | 0.70 |
| Clear Creek (fall) | 1.097 | 1.00 |
| Clear Creek (fall) | 30.480 | 1.00 |

Appendix VIII. Chinook Salmon juvenile rearing depth (m) and Habitat Suitability Index (HSI).

| Location | Depth | HSI |
|--|--------------|------------|
| American River | 0.000 | 0.00 |
| American River | 0.061 | 0.00 |
| American River | 0.244 | 0.90 |
| American River | 0.305 | 1.00 |
| American River | 0.762 | 1.00 |
| American River | 0.914 | 0.75 |
| American River | 1.219 | 0.20 |
| American River | 1.524 | 0.10 |
| American River | 3.048 | 0.10 |
| American River | 7.620 | 0.00 |
| American River | 30.480 | 0.00 |
| Sacramento River (fall/late-fall/winter) | 0.000 | 0.00 |
| Sacramento River (fall/late-fall/winter) | 0.091 | 0.00 |
| Sacramento River (fall/late-fall/winter) | 0.122 | 0.41 |
| Sacramento River (fall/late-fall/winter) | 0.488 | 0.90 |
| Sacramento River (fall/late-fall/winter) | 0.610 | 0.98 |
| Sacramento River (fall/late-fall/winter) | 0.671 | 1.00 |
| Sacramento River (fall/late-fall/winter) | 0.762 | 1.00 |
| Sacramento River (fall/late-fall/winter) | 0.914 | 0.94 |
| Sacramento River (fall/late-fall/winter) | 1.067 | 0.84 |
| Sacramento River (fall/late-fall/winter) | 1.676 | 0.32 |
| Sacramento River (fall/late-fall/winter) | 1.981 | 0.17 |
| Sacramento River (fall/late-fall/winter) | 2.438 | 0.07 |
| Sacramento River (fall/late-fall/winter) | 2.896 | 0.04 |
| Sacramento River (fall/late-fall/winter) | 3.200 | 0.03 |
| Sacramento River (fall/late-fall/winter) | 4.115 | 0.03 |
| Sacramento River (fall/late-fall/winter) | 5.334 | 0.07 |

| Location | Depth | HSI |
|--|--------------|------------|
| Sacramento River (fall/late-fall/winter) | 5.791 | 0.07 |
| Sacramento River (fall/late-fall/winter) | 6.096 | 0.06 |
| Sacramento River (fall/late-fall/winter) | 6.706 | 0.02 |
| Sacramento River (fall/late-fall/winter) | 7.224 | 0.01 |
| Sacramento River (fall/late-fall/winter) | 7.254 | 0.00 |
| Sacramento River (fall/late-fall/winter) | 30.480 | 0.00 |
| Yuba River (fall/spring) | 0.000 | 0.00 |
| Yuba River (fall/spring) | 0.213 | 0.00 |
| Yuba River (fall/spring) | 0.244 | 0.03 |
| Yuba River (fall/spring) | 0.305 | 0.05 |
| Yuba River (fall/spring) | 0.366 | 0.09 |
| Yuba River (fall/spring) | 0.427 | 0.15 |
| Yuba River (fall/spring) | 0.488 | 0.23 |
| Yuba River (fall/spring) | 0.579 | 0.38 |
| Yuba River (fall/spring) | 0.732 | 0.68 |
| Yuba River (fall/spring) | 0.762 | 0.73 |
| Yuba River (fall/spring) | 0.792 | 0.79 |
| Yuba River (fall/spring) | 0.884 | 0.91 |
| Yuba River (fall/spring) | 0.945 | 0.97 |
| Yuba River (fall/spring) | 1.036 | 1.00 |
| Yuba River (fall/spring) | 1.067 | 1.00 |
| Yuba River (fall/spring) | 1.158 | 0.97 |
| Yuba River (fall/spring) | 1.219 | 0.93 |
| Yuba River (fall/spring) | 1.250 | 0.90 |
| Yuba River (fall/spring) | 1.280 | 0.88 |
| Yuba River (fall/spring) | 1.341 | 0.82 |
| Yuba River (fall/spring) | 1.372 | 0.78 |

| Location | Depth | HSI |
|--------------------------|--------------|------------|
| Yuba River (fall/spring) | 1.646 | 0.51 |
| Yuba River (fall/spring) | 1.676 | 0.49 |
| Yuba River (fall/spring) | 1.707 | 0.46 |
| Yuba River (fall/spring) | 1.890 | 0.34 |
| Yuba River (fall/spring) | 1.920 | 0.33 |
| Yuba River (fall/spring) | 1.951 | 0.31 |
| Yuba River (fall/spring) | 2.134 | 0.25 |
| Yuba River (fall/spring) | 2.164 | 0.25 |
| Yuba River (fall/spring) | 2.195 | 0.24 |
| Yuba River (fall/spring) | 2.225 | 0.23 |
| Yuba River (fall/spring) | 2.286 | 0.23 |
| Yuba River (fall/spring) | 2.316 | 0.22 |
| Yuba River (fall/spring) | 3.597 | 0.22 |
| Yuba River (fall/spring) | 3.627 | 0.00 |
| Yuba River (fall/spring) | 30.480 | 0.00 |
| Clear Creek (spring) | 0.000 | 0.00 |
| Clear Creek (spring) | 0.061 | 0.00 |
| Clear Creek (spring) | 0.091 | 0.36 |
| Clear Creek (spring) | 0.183 | 0.45 |
| Clear Creek (spring) | 0.213 | 0.49 |
| Clear Creek (spring) | 0.274 | 0.55 |
| Clear Creek (spring) | 0.305 | 0.59 |
| Clear Creek (spring) | 0.366 | 0.65 |
| Clear Creek (spring) | 0.396 | 0.69 |
| Clear Creek (spring) | 0.427 | 0.72 |
| Clear Creek (spring) | 0.518 | 0.81 |
| Clear Creek (spring) | 0.579 | 0.87 |
| Clear Creek (spring) | 0.701 | 0.95 |
| Clear Creek (spring) | 0.732 | 0.96 |

| Location | Depth | HSI |
|----------------------|--------------|------------|
| Clear Creek (spring) | 0.762 | 0.98 |
| Clear Creek (spring) | 0.792 | 0.99 |
| Clear Creek (spring) | 0.823 | 0.99 |
| Clear Creek (spring) | 0.853 | 1.00 |
| Clear Creek (spring) | 0.914 | 1.00 |
| Clear Creek (spring) | 0.945 | 0.99 |
| Clear Creek (spring) | 0.975 | 0.99 |
| Clear Creek (spring) | 1.036 | 0.97 |
| Clear Creek (spring) | 1.189 | 0.87 |
| Clear Creek (spring) | 1.250 | 0.81 |
| Clear Creek (spring) | 1.280 | 0.79 |
| Clear Creek (spring) | 1.311 | 0.76 |
| Clear Creek (spring) | 1.341 | 0.72 |
| Clear Creek (spring) | 1.402 | 0.66 |
| Clear Creek (spring) | 1.433 | 0.62 |
| Clear Creek (spring) | 1.463 | 0.59 |
| Clear Creek (spring) | 1.494 | 0.56 |
| Clear Creek (spring) | 1.524 | 0.52 |
| Clear Creek (spring) | 1.585 | 0.46 |
| Clear Creek (spring) | 1.615 | 0.42 |
| Clear Creek (spring) | 1.676 | 0.36 |
| Clear Creek (spring) | 1.707 | 0.00 |
| Clear Creek (spring) | 30.480 | 0.00 |
| Clear Creek (fall) | 0.000 | 0.00 |
| Clear Creek (fall) | 0.122 | 0.00 |
| Clear Creek (fall) | 0.152 | 0.30 |
| Clear Creek (fall) | 0.183 | 0.33 |
| Clear Creek (fall) | 0.213 | 0.37 |
| Clear Creek (fall) | 0.244 | 0.40 |

| Location | Depth | HSI |
|--------------------|--------------|------------|
| Clear Creek (fall) | 0.488 | 0.72 |
| Clear Creek (fall) | 0.518 | 0.75 |
| Clear Creek (fall) | 0.549 | 0.79 |
| Clear Creek (fall) | 0.640 | 0.88 |
| Clear Creek (fall) | 0.762 | 0.96 |
| Clear Creek (fall) | 0.884 | 1.00 |
| Clear Creek (fall) | 0.975 | 1.00 |
| Clear Creek (fall) | 1.097 | 0.96 |
| Clear Creek (fall) | 1.128 | 0.94 |
| Clear Creek (fall) | 1.158 | 0.93 |
| Clear Creek (fall) | 1.189 | 0.90 |
| Clear Creek (fall) | 1.219 | 0.88 |
| Clear Creek (fall) | 1.280 | 0.82 |
| Clear Creek (fall) | 1.311 | 0.79 |
| Clear Creek (fall) | 1.341 | 0.76 |
| Clear Creek (fall) | 1.372 | 0.73 |
| Clear Creek (fall) | 1.615 | 0.41 |
| Clear Creek (fall) | 1.646 | 0.00 |
| Clear Creek (fall) | 30.480 | 0.00 |
| Stanislaus River | 0.000 | 0.00 |
| Stanislaus River | 0.030 | 0.01 |
| Stanislaus River | 0.061 | 0.02 |
| Stanislaus River | 0.091 | 0.05 |
| Stanislaus River | 0.122 | 0.10 |
| Stanislaus River | 0.152 | 0.17 |
| Stanislaus River | 0.183 | 0.27 |
| Stanislaus River | 0.213 | 0.36 |
| Stanislaus River | 0.244 | 0.42 |
| Stanislaus River | 0.274 | 0.46 |

| Location | Depth | HSI |
|------------------|--------------|------------|
| Stanislaus River | 0.305 | 0.50 |
| Stanislaus River | 0.335 | 0.53 |
| Stanislaus River | 0.366 | 0.56 |
| Stanislaus River | 0.396 | 0.61 |
| Stanislaus River | 0.427 | 0.66 |
| Stanislaus River | 0.457 | 0.71 |
| Stanislaus River | 0.488 | 0.76 |
| Stanislaus River | 0.518 | 0.82 |
| Stanislaus River | 0.549 | 0.87 |
| Stanislaus River | 0.579 | 0.92 |
| Stanislaus River | 0.610 | 0.97 |
| Stanislaus River | 0.640 | 1.00 |
| Stanislaus River | 0.671 | 0.93 |
| Stanislaus River | 0.701 | 0.86 |
| Stanislaus River | 0.732 | 0.78 |
| Stanislaus River | 0.762 | 0.71 |
| Stanislaus River | 0.792 | 0.64 |
| Stanislaus River | 0.823 | 0.57 |
| Stanislaus River | 0.853 | 0.49 |
| Stanislaus River | 0.884 | 0.42 |
| Stanislaus River | 0.914 | 0.41 |
| Stanislaus River | 0.945 | 0.39 |
| Stanislaus River | 0.975 | 0.38 |
| Stanislaus River | 1.006 | 0.36 |
| Stanislaus River | 1.036 | 0.35 |
| Stanislaus River | 1.067 | 0.34 |
| Stanislaus River | 1.097 | 0.32 |
| Stanislaus River | 1.128 | 0.31 |
| Stanislaus River | 1.158 | 0.29 |

| Location | Depth | HSI |
|------------------|--------------|------------|
| Stanislaus River | 1.189 | 0.28 |
| Stanislaus River | 1.219 | 0.25 |
| Stanislaus River | 1.250 | 0.18 |
| Stanislaus River | 1.280 | 0.12 |
| Stanislaus River | 1.311 | 0.08 |
| Stanislaus River | 1.341 | 0.05 |
| Stanislaus River | 1.372 | 0.03 |
| Stanislaus River | 1.402 | 0.03 |
| Stanislaus River | 1.433 | 0.02 |
| Stanislaus River | 2.134 | 0.02 |
| Stanislaus River | 2.164 | 0.00 |
| Stanislaus River | 30.480 | 0.00 |
| Tuolumne River | 0.000 | 0.00 |
| Tuolumne River | 0.030 | 0.01 |
| Tuolumne River | 0.061 | 0.03 |
| Tuolumne River | 0.122 | 0.03 |
| Tuolumne River | 0.152 | 0.12 |
| Tuolumne River | 0.183 | 0.15 |
| Tuolumne River | 0.213 | 0.48 |
| Tuolumne River | 0.244 | 0.55 |
| Tuolumne River | 0.274 | 0.60 |
| Tuolumne River | 0.305 | 0.64 |
| Tuolumne River | 0.335 | 0.73 |
| Tuolumne River | 0.366 | 0.76 |
| Tuolumne River | 0.396 | 0.79 |
| Tuolumne River | 0.427 | 0.81 |
| Tuolumne River | 0.457 | 0.84 |
| Tuolumne River | 0.488 | 0.87 |
| Tuolumne River | 0.518 | 0.90 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Tuolumne River | 0.549 | 0.93 |
| Tuolumne River | 0.579 | 0.96 |
| Tuolumne River | 0.610 | 1.00 |
| Tuolumne River | 0.640 | 0.55 |
| Tuolumne River | 0.671 | 0.49 |
| Tuolumne River | 0.701 | 0.43 |
| Tuolumne River | 0.732 | 0.37 |
| Tuolumne River | 0.762 | 0.33 |
| Tuolumne River | 0.792 | 0.30 |
| Tuolumne River | 0.853 | 0.30 |
| Tuolumne River | 0.884 | 0.24 |
| Tuolumne River | 0.914 | 0.24 |
| Tuolumne River | 0.945 | 0.23 |
| Tuolumne River | 0.975 | 0.22 |
| Tuolumne River | 1.006 | 0.21 |
| Tuolumne River | 1.036 | 0.20 |
| Tuolumne River | 1.067 | 0.19 |
| Tuolumne River | 1.097 | 0.18 |
| Tuolumne River | 1.158 | 0.18 |
| Tuolumne River | 1.189 | 0.12 |
| Tuolumne River | 1.981 | 0.12 |
| Tuolumne River | 2.012 | 0.06 |
| Tuolumne River | 2.134 | 0.06 |
| Tuolumne River | 2.164 | 0.00 |
| Tuolumne River | 30.480 | 0.00 |
| Battle Creek | 0.000 | 0.00 |
| Battle Creek | 0.155 | 0.00 |
| Battle Creek | 0.168 | 0.10 |
| Battle Creek | 0.198 | 0.32 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Battle Creek | 0.229 | 0.51 |
| Battle Creek | 0.259 | 0.66 |
| Battle Creek | 0.290 | 0.78 |
| Battle Creek | 0.320 | 0.87 |
| Battle Creek | 0.351 | 0.93 |
| Battle Creek | 0.381 | 0.98 |
| Battle Creek | 0.411 | 1.00 |
| Battle Creek | 0.442 | 1.00 |
| Battle Creek | 0.472 | 0.99 |
| Battle Creek | 0.503 | 0.96 |
| Battle Creek | 0.533 | 0.93 |
| Battle Creek | 0.564 | 0.88 |
| Battle Creek | 0.594 | 0.82 |
| Battle Creek | 0.625 | 0.76 |
| Battle Creek | 0.655 | 0.70 |
| Battle Creek | 0.686 | 0.63 |
| Battle Creek | 0.716 | 0.57 |
| Battle Creek | 0.747 | 0.50 |
| Battle Creek | 0.777 | 0.43 |
| Battle Creek | 0.808 | 0.37 |
| Battle Creek | 0.838 | 0.31 |
| Battle Creek | 0.869 | 0.25 |
| Battle Creek | 0.930 | 0.19 |
| Battle Creek | 0.991 | 0.17 |
| Battle Creek | 1.509 | 0.17 |
| Battle Creek | 1.539 | 0.17 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Battle Creek | 1.570 | 0.16 |
| Battle Creek | 1.600 | 0.14 |
| Battle Creek | 1.631 | 0.11 |
| Battle Creek | 1.661 | 0.06 |
| Battle Creek | 1.692 | 0.00 |
| Battle Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 0.00 |
| Feather River | 0.122 | 0.10 |
| Feather River | 0.183 | 0.20 |
| Feather River | 0.213 | 0.50 |
| Feather River | 0.274 | 1.00 |
| Feather River | 1.600 | 1.00 |
| Feather River | 1.829 | 1.00 |
| Feather River | 30.480 | 1.00 |
| Yuba River Beak | 0.000 | 0.00 |
| Yuba River Beak | 0.046 | 0.10 |
| Yuba River Beak | 0.076 | 0.20 |
| Yuba River Beak | 0.137 | 0.50 |
| Yuba River Beak | 0.168 | 1.00 |
| Yuba River Beak | 0.442 | 1.00 |
| Yuba River Beak | 0.533 | 0.50 |
| Yuba River Beak | 0.686 | 0.20 |
| Yuba River Beak | 0.747 | 0.10 |
| Yuba River Beak | 0.899 | 0.02 |
| Yuba River Beak | 0.930 | 0.00 |
| Yuba River Beak | 30.480 | 0.00 |

Appendix IX. Chinook Salmon juvenile rearing mean water column velocity (m/s) and Habitat Suitability Index (HSI).

| Location | Velocity | HSI |
|--|-----------------|------------|
| American River | 0.000 | 0.30 |
| American River | 0.046 | 0.55 |
| American River | 0.091 | 0.90 |
| American River | 0.122 | 1.00 |
| American River | 0.244 | 1.00 |
| American River | 0.290 | 0.85 |
| American River | 0.366 | 0.30 |
| American River | 0.533 | 0.15 |
| American River | 1.067 | 0.05 |
| American River | 1.372 | 0.01 |
| American River | 1.524 | 0.00 |
| American River | 30.480 | 0.00 |
| Sacramento River (fall/late-fall/winter) | 0.000 | 0.47 |
| Sacramento River (fall/late-fall/winter) | 0.061 | 0.85 |
| Sacramento River (fall/late-fall/winter) | 0.091 | 0.96 |
| Sacramento River (fall/late-fall/winter) | 0.122 | 1.00 |
| Sacramento River (fall/late-fall/winter) | 0.152 | 0.98 |
| Sacramento River (fall/late-fall/winter) | 0.183 | 0.91 |
| Sacramento River (fall/late-fall/winter) | 0.335 | 0.35 |
| Sacramento River (fall/late-fall/winter) | 0.396 | 0.21 |
| Sacramento River (fall/late-fall/winter) | 0.457 | 0.13 |
| Sacramento River (fall/late-fall/winter) | 0.518 | 0.09 |
| Sacramento River (fall/late-fall/winter) | 0.640 | 0.06 |
| Sacramento River (fall/late-fall/winter) | 0.792 | 0.08 |
| Sacramento River (fall/late-fall/winter) | 0.838 | 0.10 |
| Sacramento River (fall/late-fall/winter) | 1.198 | 0.00 |
| Sacramento River (fall/late-fall/winter) | 30.480 | 0.00 |

| Location | Velocity | HSI |
|--------------------------|-----------------|------------|
| Yuba River (fall/spring) | 0.000 | 1.00 |
| Yuba River (fall/spring) | 0.030 | 1.00 |
| Yuba River (fall/spring) | 0.061 | 0.99 |
| Yuba River (fall/spring) | 0.091 | 0.98 |
| Yuba River (fall/spring) | 0.122 | 0.97 |
| Yuba River (fall/spring) | 0.152 | 0.96 |
| Yuba River (fall/spring) | 0.183 | 0.94 |
| Yuba River (fall/spring) | 0.213 | 0.92 |
| Yuba River (fall/spring) | 0.244 | 0.89 |
| Yuba River (fall/spring) | 0.274 | 0.87 |
| Yuba River (fall/spring) | 0.305 | 0.84 |
| Yuba River (fall/spring) | 0.335 | 0.81 |
| Yuba River (fall/spring) | 0.366 | 0.78 |
| Yuba River (fall/spring) | 0.396 | 0.74 |
| Yuba River (fall/spring) | 0.427 | 0.71 |
| Yuba River (fall/spring) | 0.457 | 0.67 |
| Yuba River (fall/spring) | 0.488 | 0.63 |
| Yuba River (fall/spring) | 0.518 | 0.60 |
| Yuba River (fall/spring) | 0.549 | 0.56 |
| Yuba River (fall/spring) | 0.579 | 0.52 |
| Yuba River (fall/spring) | 0.610 | 0.48 |
| Yuba River (fall/spring) | 0.640 | 0.45 |
| Yuba River (fall/spring) | 0.671 | 0.41 |
| Yuba River (fall/spring) | 0.701 | 0.38 |
| Yuba River (fall/spring) | 0.732 | 0.34 |
| Yuba River (fall/spring) | 0.762 | 0.31 |
| Yuba River (fall/spring) | 0.777 | 0.30 |

| Location | Velocity | HSI |
|--------------------------|-----------------|------------|
| Yuba River (fall/spring) | 1.213 | 0.30 |
| Yuba River (fall/spring) | 1.216 | 0.00 |
| Yuba River (fall/spring) | 30.480 | 0.00 |
| Clear Creek (spring) | 0.000 | 1.00 |
| Clear Creek (spring) | 0.244 | 1.00 |
| Clear Creek (spring) | 0.274 | 0.99 |
| Clear Creek (spring) | 0.335 | 0.99 |
| Clear Creek (spring) | 0.366 | 0.98 |
| Clear Creek (spring) | 0.427 | 0.98 |
| Clear Creek (spring) | 0.457 | 0.97 |
| Clear Creek (spring) | 0.488 | 0.96 |
| Clear Creek (spring) | 0.518 | 0.96 |
| Clear Creek (spring) | 0.549 | 0.95 |
| Clear Creek (spring) | 0.579 | 0.94 |
| Clear Creek (spring) | 0.610 | 0.93 |
| Clear Creek (spring) | 0.640 | 0.92 |
| Clear Creek (spring) | 0.671 | 0.91 |
| Clear Creek (spring) | 0.701 | 0.90 |
| Clear Creek (spring) | 0.732 | 0.88 |
| Clear Creek (spring) | 0.762 | 0.87 |
| Clear Creek (spring) | 0.792 | 0.85 |
| Clear Creek (spring) | 0.823 | 0.84 |
| Clear Creek (spring) | 1.067 | 0.68 |
| Clear Creek (spring) | 1.097 | 0.65 |
| Clear Creek (spring) | 1.158 | 0.61 |
| Clear Creek (spring) | 1.189 | 0.58 |
| Clear Creek (spring) | 1.219 | 0.56 |
| Clear Creek (spring) | 1.250 | 0.53 |
| Clear Creek (spring) | 1.280 | 0.51 |

| Location | Velocity | HSI |
|----------------------|-----------------|------------|
| Clear Creek (spring) | 1.341 | 0.45 |
| Clear Creek (spring) | 1.372 | 0.43 |
| Clear Creek (spring) | 1.402 | 0.40 |
| Clear Creek (spring) | 1.433 | 0.38 |
| Clear Creek (spring) | 1.463 | 0.36 |
| Clear Creek (spring) | 1.494 | 0.33 |
| Clear Creek (spring) | 1.646 | 0.23 |
| Clear Creek (spring) | 1.676 | 0.21 |
| Clear Creek (spring) | 1.686 | 0.20 |
| Clear Creek (spring) | 1.689 | 0.00 |
| Clear Creek (spring) | 30.480 | 0.00 |
| Clear Creek (fall) | 0.000 | 1.00 |
| Clear Creek (fall) | 0.030 | 0.94 |
| Clear Creek (fall) | 0.061 | 0.88 |
| Clear Creek (fall) | 0.091 | 0.82 |
| Clear Creek (fall) | 0.122 | 0.77 |
| Clear Creek (fall) | 0.152 | 0.72 |
| Clear Creek (fall) | 0.183 | 0.68 |
| Clear Creek (fall) | 0.640 | 0.67 |
| Clear Creek (fall) | 0.671 | 0.67 |
| Clear Creek (fall) | 0.701 | 0.65 |
| Clear Creek (fall) | 0.732 | 0.63 |
| Clear Creek (fall) | 0.762 | 0.59 |
| Clear Creek (fall) | 0.792 | 0.53 |
| Clear Creek (fall) | 0.823 | 0.47 |
| Clear Creek (fall) | 0.853 | 0.39 |
| Clear Creek (fall) | 0.884 | 0.30 |
| Clear Creek (fall) | 0.914 | 0.22 |
| Clear Creek (fall) | 0.933 | 0.18 |

| Location | Velocity | HSI |
|--------------------|-----------------|------------|
| Clear Creek (fall) | 0.936 | 0.00 |
| Clear Creek (fall) | 30.480 | 0.00 |
| Stanislaus River | 0.000 | 0.92 |
| Stanislaus River | 0.030 | 0.96 |
| Stanislaus River | 0.061 | 1.00 |
| Stanislaus River | 0.091 | 0.99 |
| Stanislaus River | 0.122 | 0.99 |
| Stanislaus River | 0.152 | 0.98 |
| Stanislaus River | 0.183 | 0.97 |
| Stanislaus River | 0.213 | 0.97 |
| Stanislaus River | 0.244 | 0.96 |
| Stanislaus River | 0.274 | 0.96 |
| Stanislaus River | 0.305 | 0.95 |
| Stanislaus River | 0.335 | 0.94 |
| Stanislaus River | 0.366 | 0.94 |
| Stanislaus River | 0.396 | 0.93 |
| Stanislaus River | 0.427 | 0.92 |
| Stanislaus River | 0.457 | 0.92 |
| Stanislaus River | 0.488 | 0.91 |
| Stanislaus River | 0.518 | 0.79 |
| Stanislaus River | 0.549 | 0.68 |
| Stanislaus River | 0.579 | 0.56 |
| Stanislaus River | 0.610 | 0.44 |
| Stanislaus River | 0.640 | 0.33 |
| Stanislaus River | 0.671 | 0.28 |
| Stanislaus River | 0.701 | 0.24 |
| Stanislaus River | 0.732 | 0.19 |
| Stanislaus River | 0.762 | 0.15 |
| Stanislaus River | 0.792 | 0.10 |

| Location | Velocity | HSI |
|------------------|-----------------|------------|
| Stanislaus River | 0.823 | 0.06 |
| Stanislaus River | 0.853 | 0.01 |
| Stanislaus River | 1.036 | 0.01 |
| Stanislaus River | 1.067 | 0.00 |
| Stanislaus River | 30.480 | 0.00 |
| Tuolumne River | 0.000 | 0.00 |
| Tuolumne River | 0.030 | 0.72 |
| Tuolumne River | 0.061 | 1.00 |
| Tuolumne River | 0.091 | 0.83 |
| Tuolumne River | 0.122 | 0.66 |
| Tuolumne River | 0.152 | 0.62 |
| Tuolumne River | 0.183 | 0.57 |
| Tuolumne River | 0.213 | 0.31 |
| Tuolumne River | 0.244 | 0.30 |
| Tuolumne River | 0.518 | 0.30 |
| Tuolumne River | 0.549 | 0.29 |
| Tuolumne River | 0.579 | 0.22 |
| Tuolumne River | 0.610 | 0.15 |
| Tuolumne River | 0.640 | 0.11 |
| Tuolumne River | 0.671 | 0.10 |
| Tuolumne River | 0.701 | 0.09 |
| Tuolumne River | 0.732 | 0.08 |
| Tuolumne River | 0.762 | 0.08 |
| Tuolumne River | 0.792 | 0.07 |
| Tuolumne River | 0.823 | 0.06 |
| Tuolumne River | 0.853 | 0.05 |
| Tuolumne River | 0.884 | 0.04 |
| Tuolumne River | 0.914 | 0.04 |
| Tuolumne River | 0.945 | 0.03 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Tuolumne River | 1.097 | 0.03 |
| Tuolumne River | 1.128 | 0.00 |
| Tuolumne River | 30.480 | 0.00 |
| Battle Creek | 0.000 | 0.00 |
| Battle Creek | 0.043 | 0.00 |
| Battle Creek | 0.046 | 0.03 |
| Battle Creek | 0.076 | 0.25 |
| Battle Creek | 0.107 | 0.44 |
| Battle Creek | 0.137 | 0.60 |
| Battle Creek | 0.168 | 0.73 |
| Battle Creek | 0.198 | 0.83 |
| Battle Creek | 0.229 | 0.90 |
| Battle Creek | 0.259 | 0.95 |
| Battle Creek | 0.290 | 0.99 |
| Battle Creek | 0.320 | 1.00 |
| Battle Creek | 0.351 | 1.00 |
| Battle Creek | 0.381 | 0.98 |
| Battle Creek | 0.411 | 0.94 |
| Battle Creek | 0.442 | 0.89 |
| Battle Creek | 0.472 | 0.84 |
| Battle Creek | 0.503 | 0.77 |
| Battle Creek | 0.533 | 0.70 |
| Battle Creek | 0.564 | 0.63 |
| Battle Creek | 0.594 | 0.55 |
| Battle Creek | 0.625 | 0.47 |
| Battle Creek | 0.655 | 0.39 |
| Battle Creek | 0.686 | 0.32 |
| Battle Creek | 0.716 | 0.25 |
| Battle Creek | 0.747 | 0.19 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Battle Creek | 0.777 | 0.13 |
| Battle Creek | 0.808 | 0.09 |
| Battle Creek | 0.838 | 0.05 |
| Battle Creek | 0.869 | 0.03 |
| Battle Creek | 0.899 | 0.03 |
| Battle Creek | 0.930 | 0.03 |
| Battle Creek | 0.960 | 0.00 |
| Battle Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 1.00 |
| Feather River | 0.091 | 1.00 |
| Feather River | 0.274 | 0.50 |
| Feather River | 0.427 | 0.20 |
| Feather River | 0.671 | 0.10 |
| Feather River | 0.914 | 0.00 |
| Feather River | 30.480 | 0.00 |
| Yuba River Beak | 0.000 | 0.10 |
| Yuba River Beak | 0.015 | 0.20 |
| Yuba River Beak | 0.107 | 0.50 |
| Yuba River Beak | 0.168 | 1.00 |
| Yuba River Beak | 0.381 | 1.00 |
| Yuba River Beak | 0.533 | 0.50 |
| Yuba River Beak | 0.686 | 0.20 |
| Yuba River Beak | 0.899 | 0.10 |
| Yuba River Beak | 0.960 | 0.02 |
| Yuba River Beak | 0.991 | 0.00 |
| Yuba River Beak | 30.480 | 0.00 |

Appendix X. Chinook Salmon juvenile rearing cover code (C) and Habitat Suitability Index (HSI).

| Location | C | HSI |
|------------------------------|----------|------------|
| Sacramento River (fall) | 0.1 | 0.24 |
| Sacramento River (fall) | 1 | 0.24 |
| Sacramento River (fall) | 2 | 0.24 |
| Sacramento River (fall) | 3 | 0.24 |
| Sacramento River (fall) | 3.7 | 1.00 |
| Sacramento River (fall) | 4 | 1.00 |
| Sacramento River (fall) | 4.7 | 1.00 |
| Sacramento River (fall) | 5 | 1.00 |
| Sacramento River (fall) | 5.7 | 1.00 |
| Sacramento River (fall) | 7 | 0.24 |
| Sacramento River (fall) | 8 | 1.00 |
| Sacramento River (fall) | 9 | 0.24 |
| Sacramento River (fall) | 9.7 | 0.24 |
| Sacramento River (fall) | 10 | 0.24 |
| Sacramento River (late-fall) | 0.1 | 0.21 |
| Sacramento River (late-fall) | 1 | 0.21 |
| Sacramento River (late-fall) | 2 | 0.39 |
| Sacramento River (late-fall) | 3 | 0.39 |
| Sacramento River (late-fall) | 3.7 | 1.00 |
| Sacramento River (late-fall) | 4 | 0.39 |
| Sacramento River (late-fall) | 4.7 | 1.00 |
| Sacramento River (late-fall) | 5 | 1.00 |
| Sacramento River (late-fall) | 5.7 | 1.00 |
| Sacramento River (late-fall) | 7 | 0.39 |
| Sacramento River (late-fall) | 8 | 1.00 |
| Sacramento River (late-fall) | 9 | 0.21 |
| Sacramento River (late-fall) | 9.7 | 0.21 |

| Location | C | HSI |
|------------------------------|----------|------------|
| Sacramento River (late-fall) | 10 | 0.39 |
| Sacramento River (winter) | 0.1 | 0.07 |
| Sacramento River (winter) | 1 | 0.07 |
| Sacramento River (winter) | 2 | 1.00 |
| Sacramento River (winter) | 3 | 1.00 |
| Sacramento River (winter) | 3.7 | 1.00 |
| Sacramento River (winter) | 4 | 1.00 |
| Sacramento River (winter) | 4.7 | 1.00 |
| Sacramento River (winter) | 5 | 1.00 |
| Sacramento River (winter) | 5.7 | 1.00 |
| Sacramento River (winter) | 7 | 1.00 |
| Sacramento River (winter) | 8 | 1.00 |
| Sacramento River (winter) | 9 | 0.07 |
| Sacramento River (winter) | 9.7 | 0.07 |
| Sacramento River (winter) | 10 | 1.00 |
| Yuba River (fall/spring) | 0.1 | 0.24 |
| Yuba River (fall/spring) | 1 | 0.24 |
| Yuba River (fall/spring) | 2 | 0.24 |
| Yuba River (fall/spring) | 3 | 0.24 |
| Yuba River (fall/spring) | 3.7 | 1.00 |
| Yuba River (fall/spring) | 4 | 1.00 |
| Yuba River (fall/spring) | 4.7 | 1.00 |
| Yuba River (fall/spring) | 5 | 1.00 |
| Yuba River (fall/spring) | 5.7 | 1.00 |
| Yuba River (fall/spring) | 7 | 0.24 |
| Yuba River (fall/spring) | 8 | 1.00 |
| Yuba River (fall/spring) | 9 | 0.24 |

| Location | C | HSI |
|--------------------------|----------|------------|
| Yuba River (fall/spring) | 9.7 | 0.24 |
| Yuba River (fall/spring) | 10 | 0.24 |
| Clear Creek (spring) | 0.1 | 0.40 |
| Clear Creek (spring) | 1 | 1.00 |
| Clear Creek (spring) | 2 | 0.40 |
| Clear Creek (spring) | 3 | 0.40 |
| Clear Creek (spring) | 3.7 | 1.00 |
| Clear Creek (spring) | 4 | 1.00 |
| Clear Creek (spring) | 4.7 | 1.00 |
| Clear Creek (spring) | 5 | 1.00 |
| Clear Creek (spring) | 5.7 | 0.40 |
| Clear Creek (spring) | 7 | 1.00 |
| Clear Creek (spring) | 8 | 1.00 |
| Clear Creek (spring) | 9 | 0.40 |
| Clear Creek (spring) | 9.7 | 0.40 |

| Location | C | HSI |
|----------------------|----------|------------|
| Clear Creek (spring) | 10 | 0.40 |
| Clear Creek (fall) | 0.1 | 0.33 |
| Clear Creek (fall) | 1 | 1.00 |
| Clear Creek (fall) | 2 | 0.33 |
| Clear Creek (fall) | 3 | 0.33 |
| Clear Creek (fall) | 3.7 | 1.00 |
| Clear Creek (fall) | 4 | 1.00 |
| Clear Creek (fall) | 4.7 | 1.00 |
| Clear Creek (fall) | 5 | 1.00 |
| Clear Creek (fall) | 5.7 | 1.00 |
| Clear Creek (fall) | 7 | 0.33 |
| Clear Creek (fall) | 8 | 1.00 |
| Clear Creek (fall) | 9 | 1.00 |
| Clear Creek (fall) | 9.7 | 1.00 |
| Clear Creek (fall) | 10 | 0.33 |

Appendix XI. Chinook Salmon juvenile rearing adjacent velocity (AV) (m/s) and Habitat Suitability Index (HSI).

| Location | AV | HSI |
|--|-----------|------------|
| Sacramento River (fall/late-fall/winter) | 0.000 | 0.09 |
| Sacramento River (fall/late-fall/winter) | 1.262 | 1.00 |
| Sacramento River (fall/late-fall/winter) | 30.480 | 1.00 |
| Yuba River (fall/spring) | 0.000 | 0.17 |
| Yuba River (fall/spring) | 1.433 | 1.00 |
| Yuba River (fall/spring) | 30.480 | 1.00 |
| Clear Creek (spring) | 0.000 | 0.03 |
| Clear Creek (spring) | 2.423 | 1.00 |
| Clear Creek (spring) | 30.480 | 1.00 |
| Clear Creek (fall) | 0.000 | 0.51 |
| Clear Creek (fall) | 1.417 | 1.00 |
| Clear Creek (fall) | 30.480 | 1.00 |

Appendix XII. Steelhead spawning depth (m) and Habitat Suitability Index (HSI).

| Location | D | HSI |
|-----------------|----------|------------|
| Yuba River | 0.000 | 0.00 |
| Yuba River | 0.091 | 0.00 |
| Yuba River | 0.122 | 0.01 |
| Yuba River | 0.152 | 0.01 |
| Yuba River | 0.183 | 0.01 |
| Yuba River | 0.213 | 0.01 |
| Yuba River | 0.244 | 0.02 |
| Yuba River | 0.274 | 0.02 |
| Yuba River | 0.305 | 0.03 |
| Yuba River | 0.335 | 0.04 |
| Yuba River | 0.366 | 0.06 |
| Yuba River | 0.396 | 0.08 |
| Yuba River | 0.427 | 0.10 |
| Yuba River | 0.457 | 0.14 |
| Yuba River | 0.488 | 0.18 |
| Yuba River | 0.518 | 0.23 |
| Yuba River | 0.549 | 0.29 |
| Yuba River | 0.579 | 0.36 |
| Yuba River | 0.610 | 0.43 |
| Yuba River | 0.640 | 0.51 |
| Yuba River | 0.671 | 0.58 |
| Yuba River | 0.701 | 0.64 |
| Yuba River | 0.732 | 0.70 |
| Yuba River | 0.762 | 0.74 |
| Yuba River | 0.792 | 0.78 |
| Yuba River | 0.823 | 0.82 |
| Yuba River | 0.853 | 0.84 |

| Location | D | HSI |
|-----------------|----------|------------|
| Yuba River | 0.884 | 0.86 |
| Yuba River | 0.914 | 0.88 |
| Yuba River | 0.945 | 0.89 |
| Yuba River | 0.975 | 0.90 |
| Yuba River | 1.006 | 0.91 |
| Yuba River | 1.036 | 0.92 |
| Yuba River | 1.067 | 0.92 |
| Yuba River | 1.097 | 0.92 |
| Yuba River | 1.128 | 0.92 |
| Yuba River | 1.158 | 0.92 |
| Yuba River | 1.981 | 0.94 |
| Yuba River | 2.012 | 0.96 |
| Yuba River | 2.042 | 0.97 |
| Yuba River | 2.073 | 0.98 |
| Yuba River | 2.103 | 0.99 |
| Yuba River | 2.134 | 1.00 |
| Yuba River | 6.066 | 1.00 |
| Yuba River | 6.096 | 0.00 |
| Yuba River | 30.480 | 0.00 |
| Clear Creek | 0.000 | 0.00 |
| Clear Creek | 0.091 | 0.00 |
| Clear Creek | 0.122 | 0.16 |
| Clear Creek | 0.152 | 0.26 |
| Clear Creek | 0.183 | 0.38 |
| Clear Creek | 0.213 | 0.51 |
| Clear Creek | 0.244 | 0.64 |
| Clear Creek | 0.274 | 0.75 |

| Location | D | HSI |
|-----------------|----------|------------|
| Clear Creek | 0.305 | 0.85 |
| Clear Creek | 0.335 | 0.92 |
| Clear Creek | 0.366 | 0.96 |
| Clear Creek | 0.396 | 0.99 |
| Clear Creek | 0.427 | 1.00 |
| Clear Creek | 0.457 | 1.00 |
| Clear Creek | 8.717 | 0.00 |
| Clear Creek | 30.480 | 0.00 |
| American River | 0.000 | 0.00 |
| American River | 0.213 | 0.00 |
| American River | 0.223 | 0.32 |
| American River | 0.396 | 0.87 |
| American River | 0.457 | 1.00 |
| American River | 30.480 | 1.00 |
| Feather River | 0.000 | 0.00 |
| Feather River | 0.030 | 0.00 |
| Feather River | 0.091 | 0.46 |
| Feather River | 0.152 | 0.75 |
| Feather River | 0.213 | 0.92 |
| Feather River | 0.274 | 1.00 |
| Feather River | 0.335 | 0.99 |
| Feather River | 0.396 | 0.92 |
| Feather River | 0.457 | 0.80 |
| Feather River | 0.518 | 0.64 |
| Feather River | 0.579 | 0.47 |

| Location | D | HSI |
|-----------------|----------|------------|
| Feather River | 0.640 | 0.30 |
| Feather River | 0.701 | 0.19 |
| Feather River | 0.762 | 0.14 |
| Feather River | 0.823 | 0.09 |
| Feather River | 0.914 | 0.04 |
| Feather River | 1.006 | 0.00 |
| Feather River | 30.480 | 0.00 |
| Mokelumne River | 0.000 | 0.00 |
| Mokelumne River | 0.122 | 0.00 |
| Mokelumne River | 0.183 | 0.05 |
| Mokelumne River | 0.244 | 0.11 |
| Mokelumne River | 0.305 | 0.47 |
| Mokelumne River | 0.366 | 0.53 |
| Mokelumne River | 0.427 | 1.00 |
| Mokelumne River | 0.610 | 0.89 |
| Mokelumne River | 0.671 | 0.84 |
| Mokelumne River | 0.792 | 0.74 |
| Mokelumne River | 0.853 | 0.58 |
| Mokelumne River | 0.914 | 0.37 |
| Mokelumne River | 0.975 | 0.21 |
| Mokelumne River | 1.036 | 0.16 |
| Mokelumne River | 1.097 | 0.11 |
| Mokelumne River | 1.158 | 0.11 |
| Mokelumne River | 1.219 | 0.00 |
| Mokelumne River | 30.480 | 0.00 |

Appendix XIII. Steelhead spawning mean water column velocity (m/s) and Habitat Suitability Index (HSI).

| Location | Velocity | HSI |
|------------|----------|------|
| Yuba River | 0.000 | 0.00 |
| Yuba River | 0.024 | 0.00 |
| Yuba River | 0.027 | 0.02 |
| Yuba River | 0.061 | 0.02 |
| Yuba River | 0.091 | 0.03 |
| Yuba River | 0.122 | 0.05 |
| Yuba River | 0.152 | 0.07 |
| Yuba River | 0.183 | 0.09 |
| Yuba River | 0.213 | 0.12 |
| Yuba River | 0.244 | 0.15 |
| Yuba River | 0.274 | 0.20 |
| Yuba River | 0.305 | 0.24 |
| Yuba River | 0.335 | 0.30 |
| Yuba River | 0.366 | 0.35 |
| Yuba River | 0.396 | 0.41 |
| Yuba River | 0.427 | 0.48 |
| Yuba River | 0.457 | 0.54 |
| Yuba River | 0.488 | 0.60 |
| Yuba River | 0.518 | 0.67 |
| Yuba River | 0.549 | 0.72 |
| Yuba River | 0.579 | 0.78 |
| Yuba River | 0.610 | 0.83 |
| Yuba River | 0.640 | 0.87 |
| Yuba River | 0.671 | 0.91 |
| Yuba River | 0.732 | 0.96 |
| Yuba River | 0.792 | 1.00 |
| Yuba River | 0.884 | 1.00 |

| Location | Velocity | HSI |
|-------------|----------|------|
| Yuba River | 1.006 | 0.94 |
| Yuba River | 1.036 | 0.91 |
| Yuba River | 1.067 | 0.88 |
| Yuba River | 1.158 | 0.79 |
| Yuba River | 1.250 | 0.68 |
| Yuba River | 1.280 | 0.65 |
| Yuba River | 1.311 | 0.61 |
| Yuba River | 1.341 | 0.58 |
| Yuba River | 1.402 | 0.51 |
| Yuba River | 1.554 | 0.38 |
| Yuba River | 1.585 | 0.36 |
| Yuba River | 1.615 | 0.34 |
| Yuba River | 1.859 | 0.27 |
| Yuba River | 1.890 | 0.26 |
| Yuba River | 1.920 | 0.27 |
| Yuba River | 2.073 | 0.30 |
| Yuba River | 2.103 | 0.32 |
| Yuba River | 2.109 | 0.33 |
| Yuba River | 2.112 | 0.00 |
| Yuba River | 30.480 | 0.00 |
| Clear Creek | 0.000 | 0.00 |
| Clear Creek | 0.183 | 0.00 |
| Clear Creek | 0.186 | 0.08 |
| Clear Creek | 0.213 | 0.14 |
| Clear Creek | 0.244 | 0.25 |
| Clear Creek | 0.274 | 0.38 |
| Clear Creek | 0.305 | 0.53 |

| Location | Velocity | HSI |
|-------------|----------|------|
| Clear Creek | 0.335 | 0.66 |
| Clear Creek | 0.366 | 0.78 |
| Clear Creek | 0.396 | 0.87 |
| Clear Creek | 0.427 | 0.94 |
| Clear Creek | 0.457 | 0.98 |
| Clear Creek | 0.488 | 1.00 |
| Clear Creek | 0.518 | 1.00 |
| Clear Creek | 0.549 | 0.99 |
| Clear Creek | 0.579 | 0.97 |
| Clear Creek | 0.610 | 0.95 |
| Clear Creek | 0.640 | 0.93 |
| Clear Creek | 0.671 | 0.90 |
| Clear Creek | 0.701 | 0.87 |
| Clear Creek | 0.732 | 0.85 |
| Clear Creek | 0.762 | 0.82 |
| Clear Creek | 0.792 | 0.80 |
| Clear Creek | 0.823 | 0.78 |
| Clear Creek | 0.853 | 0.76 |
| Clear Creek | 0.884 | 0.73 |
| Clear Creek | 0.914 | 0.70 |
| Clear Creek | 0.945 | 0.66 |
| Clear Creek | 0.975 | 0.61 |
| Clear Creek | 1.006 | 0.56 |
| Clear Creek | 1.036 | 0.49 |
| Clear Creek | 1.067 | 0.41 |
| Clear Creek | 1.097 | 0.33 |
| Clear Creek | 1.128 | 0.25 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Clear Creek | 1.158 | 0.17 |
| Clear Creek | 1.186 | 0.11 |
| Clear Creek | 1.189 | 0.00 |
| Clear Creek | 30.480 | 0.00 |
| American River | 0.000 | 0.00 |
| American River | 0.088 | 0.00 |
| American River | 0.094 | 0.53 |
| American River | 0.213 | 0.97 |
| American River | 0.241 | 1.00 |
| American River | 0.268 | 1.00 |
| American River | 0.347 | 0.90 |
| American River | 0.491 | 0.62 |
| American River | 0.610 | 0.49 |
| American River | 1.033 | 0.49 |
| American River | 1.100 | 0.38 |
| American River | 1.280 | 0.00 |
| American River | 30.480 | 0.00 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Feather River | 0.000 | 0.00 |
| Feather River | 0.030 | 0.00 |
| Feather River | 0.152 | 0.02 |
| Feather River | 0.213 | 0.10 |
| Feather River | 0.274 | 0.20 |
| Feather River | 0.366 | 0.50 |
| Feather River | 0.457 | 1.00 |
| Feather River | 0.884 | 1.00 |
| Feather River | 1.006 | 0.50 |
| Feather River | 1.189 | 0.20 |
| Feather River | 1.219 | 0.10 |
| Feather River | 1.463 | 0.02 |
| Feather River | 1.524 | 0.00 |
| Feather River | 1.923 | 0.00 |
| Feather River | 30.480 | 0.00 |
| Mokelumne River | 0.000 | 0.00 |
| Mokelumne River | 0.061 | 0.00 |

| Location | Velocity | HSI |
|-----------------|-----------------|------------|
| Mokelumne River | 0.122 | 0.06 |
| Mokelumne River | 0.244 | 0.17 |
| Mokelumne River | 0.305 | 0.22 |
| Mokelumne River | 0.366 | 0.50 |
| Mokelumne River | 0.427 | 0.67 |
| Mokelumne River | 0.488 | 0.89 |
| Mokelumne River | 0.549 | 1.00 |
| Mokelumne River | 0.732 | 1.00 |
| Mokelumne River | 0.792 | 0.61 |
| Mokelumne River | 0.914 | 0.56 |
| Mokelumne River | 0.975 | 0.28 |
| Mokelumne River | 1.036 | 0.22 |
| Mokelumne River | 1.097 | 0.11 |
| Mokelumne River | 1.158 | 0.11 |
| Mokelumne River | 1.280 | 0.06 |
| Mokelumne River | 1.341 | 0.00 |
| Mokelumne River | 30.480 | 0.00 |

Appendix XIV. Steelhead spawning substrate codes (S) and Habitat Suitability Index (HSI).

| Location | S | HSI |
|-----------------|----------|------------|
| Yuba River | 0.1 | 0.00 |
| Yuba River | 1 | 0.13 |
| Yuba River | 1.2 | 1.00 |
| Yuba River | 1.3 | 0.85 |
| Yuba River | 2.4 | 0.28 |
| Yuba River | 3.5 | 0.16 |
| Yuba River | 4.6 | 0.05 |
| Yuba River | 6.8 | 0.00 |
| Yuba River | 8 | 0.00 |
| Yuba River | 9 | 0.00 |
| Yuba River | 10 | 0.00 |
| Clear Creek | 0.1 | 0.00 |
| Clear Creek | 1 | 0.38 |
| Clear Creek | 1.2 | 1.00 |
| Clear Creek | 1.3 | 0.44 |
| Clear Creek | 2.4 | 0.07 |
| Clear Creek | 3.5 | 0.04 |

| Location | S | HSI |
|-----------------|----------|------------|
| Clear Creek | 4.6 | 0.01 |
| Clear Creek | 6.8 | 0.00 |
| Clear Creek | 8 | 0.00 |
| Clear Creek | 9 | 0.00 |
| Clear Creek | 10 | 0.00 |
| Feather River | 0.1 | 0.00 |
| Feather River | 1 | 0.50 |
| Feather River | 1.2 | 1.00 |
| Feather River | 1.3 | 0.45 |
| Feather River | 2.4 | 0.03 |
| Feather River | 3.5 | 0.03 |
| Feather River | 4.6 | 0.00 |
| Feather River | 6.8 | 0.00 |
| Feather River | 8 | 0.00 |
| Feather River | 9 | 0.00 |
| Feather River | 10 | 0.00 |

Appendix XV. Steelhead fry rearing depth (m) and Habitat Suitability Index (HSI).

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Yuba River | 0.000 | 0.00 |
| Yuba River | 0.030 | 0.00 |
| Yuba River | 0.061 | 0.47 |
| Yuba River | 0.122 | 0.57 |
| Yuba River | 0.152 | 0.63 |
| Yuba River | 0.183 | 0.67 |
| Yuba River | 0.213 | 0.72 |
| Yuba River | 0.244 | 0.77 |
| Yuba River | 0.305 | 0.85 |
| Yuba River | 0.335 | 0.88 |
| Yuba River | 0.366 | 0.91 |
| Yuba River | 0.396 | 0.94 |
| Yuba River | 0.457 | 0.98 |
| Yuba River | 0.518 | 1.00 |
| Yuba River | 0.579 | 1.00 |
| Yuba River | 0.671 | 0.97 |
| Yuba River | 0.732 | 0.93 |
| Yuba River | 0.762 | 0.90 |
| Yuba River | 0.884 | 0.78 |
| Yuba River | 0.914 | 0.75 |
| Yuba River | 0.945 | 0.71 |
| Yuba River | 0.975 | 0.67 |
| Yuba River | 1.006 | 0.64 |
| Yuba River | 1.036 | 0.60 |
| Yuba River | 1.067 | 0.57 |
| Yuba River | 1.097 | 0.53 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Yuba River | 1.128 | 0.50 |
| Yuba River | 1.158 | 0.46 |
| Yuba River | 1.280 | 0.34 |
| Yuba River | 1.311 | 0.32 |
| Yuba River | 1.341 | 0.29 |
| Yuba River | 1.372 | 0.27 |
| Yuba River | 1.402 | 0.24 |
| Yuba River | 1.463 | 0.20 |
| Yuba River | 1.494 | 0.19 |
| Yuba River | 1.524 | 0.17 |
| Yuba River | 1.554 | 0.16 |
| Yuba River | 1.585 | 0.14 |
| Yuba River | 1.798 | 0.07 |
| Yuba River | 1.829 | 0.07 |
| Yuba River | 1.859 | 0.06 |
| Yuba River | 1.890 | 0.06 |
| Yuba River | 1.920 | 0.05 |
| Yuba River | 1.951 | 0.00 |
| Yuba River | 30.480 | 0.00 |
| Clear Creek | 0.000 | 0.00 |
| Clear Creek | 0.030 | 1.00 |
| Clear Creek | 0.061 | 0.95 |
| Clear Creek | 0.091 | 0.89 |
| Clear Creek | 0.122 | 0.84 |
| Clear Creek | 0.152 | 0.78 |
| Clear Creek | 0.183 | 0.73 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Clear Creek | 0.213 | 0.68 |
| Clear Creek | 0.244 | 0.63 |
| Clear Creek | 0.274 | 0.58 |
| Clear Creek | 0.305 | 0.53 |
| Clear Creek | 0.335 | 0.48 |
| Clear Creek | 0.366 | 0.44 |
| Clear Creek | 0.396 | 0.40 |
| Clear Creek | 0.427 | 0.36 |
| Clear Creek | 0.457 | 0.33 |
| Clear Creek | 0.488 | 0.30 |
| Clear Creek | 0.518 | 0.27 |
| Clear Creek | 0.549 | 0.24 |
| Clear Creek | 0.579 | 0.21 |
| Clear Creek | 0.671 | 0.15 |
| Clear Creek | 0.701 | 0.14 |
| Clear Creek | 0.732 | 0.12 |
| Clear Creek | 0.945 | 0.05 |
| Clear Creek | 0.975 | 0.05 |
| Clear Creek | 1.006 | 0.04 |
| Clear Creek | 1.036 | 0.04 |
| Clear Creek | 1.067 | 0.03 |
| Clear Creek | 1.128 | 0.03 |
| Clear Creek | 1.158 | 0.02 |
| Clear Creek | 1.219 | 0.02 |
| Clear Creek | 1.250 | 0.00 |
| Clear Creek | 30.480 | 0.00 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Feather River | 0.000 | 0.74 |
| Feather River | 0.030 | 0.84 |
| Feather River | 0.091 | 0.96 |
| Feather River | 0.152 | 1.00 |
| Feather River | 0.213 | 0.96 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Feather River | 0.274 | 0.86 |
| Feather River | 0.335 | 0.72 |
| Feather River | 0.396 | 0.58 |
| Feather River | 0.457 | 0.44 |
| Feather River | 0.518 | 0.30 |

| Location | Depth | HSI |
|-----------------|--------------|------------|
| Feather River | 0.579 | 0.17 |
| Feather River | 0.640 | 0.07 |
| Feather River | 0.701 | 0.00 |
| Feather River | 30.480 | 0.00 |

Appendix XVI. Steelhead fry rearing mean water column velocity (m/s) and Habitat Suitability Index (HSI).

| Location | Velocity | HSI |
|------------|----------|------|
| Yuba River | 0.000 | 1.00 |
| Yuba River | 0.030 | 1.00 |
| Yuba River | 0.061 | 0.99 |
| Yuba River | 0.091 | 0.98 |
| Yuba River | 0.122 | 0.97 |
| Yuba River | 0.152 | 0.96 |
| Yuba River | 0.183 | 0.94 |
| Yuba River | 0.213 | 0.92 |
| Yuba River | 0.244 | 0.89 |
| Yuba River | 0.274 | 0.87 |
| Yuba River | 0.305 | 0.84 |
| Yuba River | 0.335 | 0.81 |
| Yuba River | 0.366 | 0.78 |
| Yuba River | 0.396 | 0.74 |
| Yuba River | 0.427 | 0.71 |
| Yuba River | 0.457 | 0.67 |
| Yuba River | 0.488 | 0.63 |
| Yuba River | 0.518 | 0.60 |
| Yuba River | 0.549 | 0.56 |
| Yuba River | 0.579 | 0.52 |
| Yuba River | 0.610 | 0.48 |
| Yuba River | 0.640 | 0.45 |
| Yuba River | 0.671 | 0.41 |
| Yuba River | 0.701 | 0.38 |

| Location | Velocity | HSI |
|-------------|----------|------|
| Yuba River | 0.732 | 0.34 |
| Yuba River | 0.762 | 0.31 |
| Yuba River | 0.792 | 0.28 |
| Yuba River | 0.823 | 0.25 |
| Yuba River | 0.853 | 0.23 |
| Yuba River | 0.884 | 0.20 |
| Yuba River | 0.914 | 0.18 |
| Yuba River | 0.945 | 0.16 |
| Yuba River | 0.975 | 0.14 |
| Yuba River | 1.006 | 0.12 |
| Yuba River | 1.036 | 0.11 |
| Yuba River | 1.067 | 0.09 |
| Yuba River | 1.097 | 0.08 |
| Yuba River | 1.116 | 0.07 |
| Yuba River | 1.119 | 0.00 |
| Yuba River | 30.480 | 0.00 |
| Clear Creek | 0.000 | 1.00 |
| Clear Creek | 0.030 | 0.84 |
| Clear Creek | 0.061 | 0.70 |
| Clear Creek | 0.091 | 0.58 |
| Clear Creek | 0.122 | 0.48 |
| Clear Creek | 0.152 | 0.40 |
| Clear Creek | 0.183 | 0.33 |
| Clear Creek | 0.213 | 0.28 |

| Location | Velocity | HSI |
|---------------|----------|------|
| Clear Creek | 0.244 | 0.24 |
| Clear Creek | 0.274 | 0.20 |
| Clear Creek | 0.305 | 0.18 |
| Clear Creek | 0.335 | 0.16 |
| Clear Creek | 0.366 | 0.14 |
| Clear Creek | 0.396 | 0.13 |
| Clear Creek | 0.427 | 0.12 |
| Clear Creek | 0.457 | 0.11 |
| Clear Creek | 0.488 | 0.10 |
| Clear Creek | 1.097 | 0.10 |
| Clear Creek | 1.100 | 0.00 |
| Clear Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 1.00 |
| Feather River | 0.029 | 1.00 |
| Feather River | 0.076 | 0.54 |
| Feather River | 0.131 | 0.28 |
| Feather River | 0.183 | 0.14 |
| Feather River | 0.235 | 0.07 |
| Feather River | 0.287 | 0.04 |
| Feather River | 0.341 | 0.02 |
| Feather River | 0.393 | 0.02 |
| Feather River | 0.448 | 0.00 |
| Feather River | 30.480 | 0.00 |

Appendix XVII. Steelhead fry rearing cover code (C) and Habitat Suitability Index (HSI).

| Location | C | HSI |
|-----------------|----------|------------|
| Yuba River | 0.1 | 0.12 |
| Yuba River | 1 | 0.57 |
| Yuba River | 2 | 0.28 |
| Yuba River | 3 | 0.28 |
| Yuba River | 3.7 | 1.00 |
| Yuba River | 4 | 0.57 |
| Yuba River | 4.7 | 1.00 |
| Yuba River | 5 | 1.00 |
| Yuba River | 5.7 | 1.00 |
| Yuba River | 7 | 0.28 |
| Yuba River | 8 | 1.00 |
| Yuba River | 9 | 0.12 |
| Yuba River | 9.7 | 0.12 |
| Yuba River | 10 | 1.00 |

| Location | C | HSI |
|-----------------|----------|------------|
| Clear Creek | 0.1 | 0.14 |
| Clear Creek | 1 | 0.14 |
| Clear Creek | 2 | 0.14 |
| Clear Creek | 3 | 0.66 |
| Clear Creek | 3.7 | 1.00 |
| Clear Creek | 4 | 0.66 |
| Clear Creek | 4.7 | 1.00 |
| Clear Creek | 5 | 1.00 |
| Clear Creek | 5.7 | 1.00 |
| Clear Creek | 7 | 0.66 |
| Clear Creek | 8 | 1.00 |
| Clear Creek | 9 | 0.66 |
| Clear Creek | 9.7 | 0.66 |
| Clear Creek | 10 | 0.14 |

Appendix XVIII. Steelhead fry rearing adjacent velocity (AV) (m/s) and Habitat Suitability Index (HSI).

| Location | AV | HSI |
|-----------------|-----------|------------|
| Yuba River | 0.000 | 0.02 |
| Yuba River | 1.676 | 1.00 |
| Yuba River | 30.480 | 1.00 |
| Clear Creek | 0.000 | 0.59 |
| Clear Creek | 2.064 | 1.00 |
| Clear Creek | 30.480 | 1.00 |

Appendix XIX. Steelhead juvenile rearing depth (m) and Habitat Suitability Index (HSI).

| Location | Depth | HSI |
|-------------|--------|------|
| Yuba River | 0.000 | 0.00 |
| Yuba River | 0.122 | 0.00 |
| Yuba River | 0.152 | 0.45 |
| Yuba River | 0.488 | 0.90 |
| Yuba River | 0.610 | 0.98 |
| Yuba River | 0.671 | 1.00 |
| Yuba River | 0.762 | 1.00 |
| Yuba River | 0.914 | 0.94 |
| Yuba River | 1.067 | 0.84 |
| Yuba River | 1.676 | 0.32 |
| Yuba River | 1.981 | 0.17 |
| Yuba River | 2.438 | 0.07 |
| Yuba River | 2.896 | 0.04 |
| Yuba River | 3.200 | 0.03 |
| Yuba River | 4.115 | 0.03 |
| Yuba River | 4.572 | 0.04 |
| Yuba River | 4.602 | 0.00 |
| Yuba River | 30.480 | 0.00 |
| Clear Creek | 0.000 | 0.00 |
| Clear Creek | 0.061 | 0.00 |
| Clear Creek | 0.091 | 0.36 |
| Clear Creek | 0.183 | 0.45 |
| Clear Creek | 0.213 | 0.49 |
| Clear Creek | 0.274 | 0.55 |
| Clear Creek | 0.305 | 0.59 |

| Location | Depth | HSI |
|-------------|-------|------|
| Clear Creek | 0.366 | 0.65 |
| Clear Creek | 0.396 | 0.69 |
| Clear Creek | 0.427 | 0.72 |
| Clear Creek | 0.518 | 0.81 |
| Clear Creek | 0.579 | 0.87 |
| Clear Creek | 0.701 | 0.95 |
| Clear Creek | 0.732 | 0.96 |
| Clear Creek | 0.762 | 0.98 |
| Clear Creek | 0.792 | 0.99 |
| Clear Creek | 0.823 | 0.99 |
| Clear Creek | 0.853 | 1.00 |
| Clear Creek | 0.914 | 1.00 |
| Clear Creek | 0.945 | 0.99 |
| Clear Creek | 0.975 | 0.99 |
| Clear Creek | 1.036 | 0.97 |
| Clear Creek | 1.189 | 0.87 |
| Clear Creek | 1.250 | 0.81 |
| Clear Creek | 1.280 | 0.79 |
| Clear Creek | 1.311 | 0.76 |
| Clear Creek | 1.341 | 0.72 |
| Clear Creek | 1.402 | 0.66 |
| Clear Creek | 1.433 | 0.62 |
| Clear Creek | 1.463 | 0.59 |
| Clear Creek | 1.494 | 0.56 |
| Clear Creek | 1.524 | 0.52 |

| Location | Depth | HSI |
|---------------|--------|------|
| Clear Creek | 1.585 | 0.46 |
| Clear Creek | 1.615 | 0.42 |
| Clear Creek | 1.676 | 0.36 |
| Clear Creek | 1.707 | 0.00 |
| Clear Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 0.00 |
| Feather River | 0.030 | 0.00 |
| Feather River | 0.091 | 0.40 |
| Feather River | 0.152 | 0.74 |
| Feather River | 0.213 | 0.91 |
| Feather River | 0.274 | 1.00 |
| Feather River | 0.305 | 1.00 |
| Feather River | 0.335 | 0.99 |
| Feather River | 0.396 | 0.94 |
| Feather River | 0.457 | 0.78 |
| Feather River | 0.518 | 0.64 |
| Feather River | 0.579 | 0.49 |
| Feather River | 0.640 | 0.33 |
| Feather River | 0.701 | 0.20 |
| Feather River | 0.762 | 0.07 |
| Feather River | 0.823 | 0.03 |
| Feather River | 0.884 | 0.00 |
| Feather River | 30.480 | 0.00 |

Appendix XX. Steelhead juvenile rearing mean water column velocity (m/s) and Habitat Suitability Index (HSI).

| Location | Velocity | HSI |
|------------|----------|------|
| Yuba River | 0.000 | 1.00 |
| Yuba River | 0.030 | 1.00 |
| Yuba River | 0.061 | 0.99 |
| Yuba River | 0.091 | 0.98 |
| Yuba River | 0.122 | 0.97 |
| Yuba River | 0.152 | 0.96 |
| Yuba River | 0.183 | 0.94 |
| Yuba River | 0.213 | 0.92 |
| Yuba River | 0.244 | 0.89 |
| Yuba River | 0.274 | 0.87 |
| Yuba River | 0.305 | 0.84 |
| Yuba River | 0.335 | 0.81 |
| Yuba River | 0.366 | 0.78 |
| Yuba River | 0.396 | 0.74 |
| Yuba River | 0.427 | 0.71 |
| Yuba River | 0.457 | 0.67 |
| Yuba River | 0.488 | 0.63 |
| Yuba River | 0.518 | 0.60 |
| Yuba River | 0.549 | 0.56 |
| Yuba River | 0.579 | 0.52 |
| Yuba River | 0.610 | 0.48 |
| Yuba River | 0.640 | 0.45 |
| Yuba River | 0.671 | 0.41 |
| Yuba River | 0.701 | 0.38 |
| Yuba River | 0.732 | 0.34 |
| Yuba River | 0.762 | 0.31 |
| Yuba River | 0.777 | 0.30 |

| Location | Velocity | HSI |
|-------------|----------|------|
| Yuba River | 1.213 | 0.30 |
| Yuba River | 1.216 | 0.00 |
| Yuba River | 30.480 | 0.00 |
| Clear Creek | 0.000 | 1.00 |
| Clear Creek | 0.244 | 1.00 |
| Clear Creek | 0.274 | 0.99 |
| Clear Creek | 0.335 | 0.99 |
| Clear Creek | 0.366 | 0.98 |
| Clear Creek | 0.427 | 0.98 |
| Clear Creek | 0.457 | 0.97 |
| Clear Creek | 0.488 | 0.96 |
| Clear Creek | 0.518 | 0.96 |
| Clear Creek | 0.549 | 0.95 |
| Clear Creek | 0.579 | 0.94 |
| Clear Creek | 0.610 | 0.93 |
| Clear Creek | 0.640 | 0.92 |
| Clear Creek | 0.671 | 0.91 |
| Clear Creek | 0.701 | 0.90 |
| Clear Creek | 0.732 | 0.88 |
| Clear Creek | 0.762 | 0.87 |
| Clear Creek | 0.792 | 0.85 |
| Clear Creek | 0.823 | 0.84 |
| Clear Creek | 1.067 | 0.68 |
| Clear Creek | 1.097 | 0.65 |
| Clear Creek | 1.158 | 0.61 |
| Clear Creek | 1.189 | 0.58 |
| Clear Creek | 1.219 | 0.56 |

| Location | Velocity | HSI |
|---------------|----------|------|
| Clear Creek | 1.250 | 0.53 |
| Clear Creek | 1.280 | 0.51 |
| Clear Creek | 1.341 | 0.45 |
| Clear Creek | 1.372 | 0.43 |
| Clear Creek | 1.402 | 0.40 |
| Clear Creek | 1.433 | 0.38 |
| Clear Creek | 1.463 | 0.36 |
| Clear Creek | 1.494 | 0.33 |
| Clear Creek | 1.646 | 0.23 |
| Clear Creek | 1.676 | 0.21 |
| Clear Creek | 1.686 | 0.20 |
| Clear Creek | 1.689 | 0.00 |
| Clear Creek | 30.480 | 0.00 |
| Feather River | 0.000 | 0.33 |
| Feather River | 0.015 | 0.40 |
| Feather River | 0.107 | 0.71 |
| Feather River | 0.198 | 0.91 |
| Feather River | 0.290 | 0.98 |
| Feather River | 0.381 | 1.00 |
| Feather River | 0.472 | 0.96 |
| Feather River | 0.564 | 0.84 |
| Feather River | 0.655 | 0.71 |
| Feather River | 0.747 | 0.57 |
| Feather River | 0.838 | 0.45 |
| Feather River | 0.930 | 0.33 |
| Feather River | 1.021 | 0.22 |
| Feather River | 1.113 | 0.13 |

| Location | Velocity | HSI |
|---------------|----------|------|
| Feather River | 1.204 | 0.08 |
| Feather River | 1.295 | 0.05 |

| Location | Velocity | HSI |
|---------------|----------|------|
| Feather River | 1.387 | 0.04 |
| Feather River | 1.478 | 0.00 |

| Location | Velocity | HSI |
|---------------|----------|------|
| Feather River | 30.480 | 0.00 |

Appendix XXI. Steelhead juvenile rearing cover code (C) and Habitat Suitability Index (HSI).

| Location | C | HSI |
|------------|-----|------|
| Yuba River | 0.1 | 0.24 |
| Yuba River | 1 | 0.24 |
| Yuba River | 2 | 0.24 |
| Yuba River | 3 | 0.24 |
| Yuba River | 3.7 | 1.00 |
| Yuba River | 4 | 1.00 |
| Yuba River | 4.7 | 1.00 |
| Yuba River | 5 | 1.00 |
| Yuba River | 5.7 | 1.00 |
| Yuba River | 7 | 0.24 |
| Yuba River | 8 | 1.00 |
| Yuba River | 9 | 0.24 |
| Yuba River | 9.7 | 0.24 |
| Yuba River | 10 | 0.24 |

| Location | C | HSI |
|-------------|-----|------|
| Clear Creek | 0.1 | 0.40 |
| Clear Creek | 1 | 1.00 |
| Clear Creek | 2 | 0.40 |
| Clear Creek | 3 | 0.40 |
| Clear Creek | 3.7 | 1.00 |
| Clear Creek | 4 | 1.00 |
| Clear Creek | 4.7 | 1.00 |
| Clear Creek | 5 | 1.00 |
| Clear Creek | 5.7 | 0.40 |
| Clear Creek | 7 | 1.00 |
| Clear Creek | 8 | 1.00 |
| Clear Creek | 9 | 0.40 |
| Clear Creek | 9.7 | 0.40 |
| Clear Creek | 10 | 0.40 |

Appendix XXII. Steelhead juvenile rearing adjacent velocity (AV) (m/s) and Habitat Suitability Index (HSI).

| Location | AV | HSI |
|------------|--------|------|
| Yuba River | 0.000 | 0.02 |
| Yuba River | 1.676 | 1.00 |
| Yuba River | 30.480 | 1.00 |

| Location | AV | HSI |
|-------------|--------|------|
| Clear Creek | 0.000 | 0.03 |
| Clear Creek | 2.423 | 1.00 |
| Clear Creek | 30.480 | 1.00 |