**Table S2.** Pearson’s pairwise correlation coefficients for 13 variables used to characterize multiscale instream habitat at 80 channel unit complexes nested in 22 stream reaches of northeast Oklahoma and southwest Missouri, where WD is width-ratio, Day is Julian day of survey, D-link is downstream link, and RPD is residual pool depth. † distinguishes channel unit complex-scale variables from reach-scale variables.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Bankfull WD | Day | D50 | D-link | Distance to dam | †Percent cover | Percent cover | †Percent riffle | Percent riffle | RPD | †Wetted area | †Water depth | †Wetted width | †Wetted WD |
| Bankfull WD |  1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Day  |  0.40 |  1 |  |  |  |  |  |  |  |  |  |  |  |  |
| D50 |  0.27 | -0.05 |  1 |  |  |  |  |  |  |  |  |  |  |  |
| D-link |  0.66 |  0.29 |  0.10 |  1 |   |  |  |  |  |  |  |  |  |  |
| Distance to dam |  0.04 |  0.39 | -0.03 | -0.07 |  1  |   |  |  |  |  |  |  |  |  |
| †Percent cover  |  0.32 |  0.36 |  0.41 |  0.29 | -0.01 |  1 |  |  |  |  |  |  |  |  |
| Percent cover  |  0.29 |  0.33 |  0.53 |  0.29 | -0.10 |  0.68 |  1  |  |  |  |  |  |  |  |
| †Percent riffle | -0.26 | -0.04 | -0.12 | -0.24 |  0.03 | -0.17 | -0.18 |  1 |  |  |  |  |  |  |
| Percent riffle  | -0.41 | -0.03 | -0.20 | -0.55 |  0.22 | -0.16 | -0.32 |  0.40 |  1 |  |  |  |  |  |
| RPD |  0.19 |  0.24 | -0.21 |  0.50 |  0.47 | -0.02 | -0.13 | -0.11 | -0.22 |  1 |  |  |  |  |
| †Wetted area  |  0.31 | -0.05 | -0.02 |  0.17 | -0.03 | -0.06 | -0.12 | -0.30 | -0.15 |  0.04 |  1 |  |  |  |
| †Water depth |  0.03 | -0.11 |  0.03 | -0.01 | -0.04 |  0.08 |  0.09 | -0.08 |  0.08 | -0.07 | 0.36 |  1 |  |  |
| †Wetted width |  0.20 | -0.02 |  0.05 |  0.10 | -0.13 | -0.02 | -0.01 | -0.28 | -0.13 | -0.09 | 0.84 |  0.35 |  1 |  |
| †Wetted WD |  0.17 |  0.10 | -0.02 |  0.10 | -0.14 | -0.09 | -0.10 | -0.18 | -0.13 | -0.07 | 0.43 | -0.46 | 0.62 | 1 |