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| Variable | Discription |
| river | River surveyed |
| segment | Segment ID |
| GPS | Sampling site ID |
| mussel | Total mussel abundance |
| adult | Adult mussel abundance (≥40 mm in shell length) |
| juvenile | Juvenile mussel abundance(<40 mm in shell length) |
| po\_l1500 | Upstream distribution range of potential  immigrants |
| pon15\_1 | Number of upstream confluences (scale: 1km) |
| pon15\_2 | Ditto (scale: 2km) |
| pon15\_3 | Ditto (scale: 2km) |
| proximity\_p | Proximity to downstream reproductive subpopulations (if mussel beds were present in unsurveyed reaches) |
| proximity\_a | Ditto (if mussel beds were absent in unsurveyed reaches) |
| River\_width | River width |
| R\_baseflow | Hydraulic radius at base flow conditions |
| R\_bankfull | Hydraulic radius at bankfull flow conditions |
| minimum\_depth | Minimum depth at each site |
| maximaum\_depth | Maximum depth at each site |
| slope | Water surface slope (m/m) |
| tau\_baseflow | Shear stress at base flow conditions |
| tau\_bankfull | Shear stress at bankfull flow conditions |
| pH | pH |
| Sinuosity | sinuosity |

Description of variables.