

Fish volitional and non-volitional swimming performance for fishway design: An evidence-based review – Dataset Supplementary Document

Refer to the following list for explanation on the column headings of the accompanying dataset.

Headings	Explanation
Apparatus	Swimming performance assessment apparatus corresponding specifically to the model (e.g., Blazka- or Brett-type respirometer)
Category	Assessment category divided into volitional fishway related (VF), volitional non-fishway related (VNF), non-volitional fishway related (NVF), and non-volitional non-fishway related (NVNF)
Classification	Classification of test apparatus; fishway model (FM), observation arena (OA), recirculating flume (RF; CC for closed conduit and OC for open channel), respirometer (RM), and raceway (RW). Apparatus sharing features of a respirometer or a recirculating flume (both closed conduit and open channel), but without sufficient description to properly identify, were classified as swim tunnel (ST)
Evelocity	Swimming speed that resulted in specific endurance time; only available where metric is endurance (E) and measurement is equivalent to time
Length	Fish body length (in mm)
Measurement	Measurement of swim speed (ms ⁻¹ ; if variable type is a speed metric) or endurance time (in s; if variable type is endurance)
n	Number of fish or replicate measurements per treatment as specified in the study
Order	Order-level classification of the species assessed
Reclassified	Reclassified order-level classification, keeping the three main orders of Cypriniformes, Perciformes, and Salmoniformes, and classifying others under 'others'
Source	Publication source, either indexed (ID; publications obtained from <i>Web of Science Core Collection</i> or <i>Scopus</i>) or Google Scholar (GS)
Stage	Life stage tested, either adult (ADT) or juvenile (JUV)
Species	Fish species tested, formatted as [first letter of the genus]_[specific epithet]
Study	Identifier for the publication, formatted as [first author's last name]_et/and_al/[second author's last name]_[identifying number if applicable]

Temp	Water temperature during trial (in °C)
Type	Assessment type, either non-volitional (NON) or volitional (VOL)
Use	Identifier for data application type; either for flow criteria (FC), modelling passage (MP), non-specific application (NS), or comparative passage performance (PP). Non-fishway related publications were assigned non-fishway use (NF)
VarType	Corresponding to response metrics reported (refer to main publication for explanation of abbreviations)
Year	Publication year of the corresponding study
