

# Stream Functions Pyramid

*A Guide for Assessing & Restoring Stream Functions* » FUNCTIONS & PARAMETERS

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## **BIOLOGY »**

**FUNCTION:** *Biodiversity and the life histories of aquatic and riparian life*

**PARAMETERS:** *Microbial Communities, Macrophyte Communities, Benthic Macroinvertebrate Communities, Fish Communities, Landscape Connectivity*

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## **PHYSIOCHEMICAL »**

**FUNCTION:** *Temperature and oxygen regulation; processing of organic matter and nutrients*

**PARAMETERS:** *Water Quality, Nutrients, Organic Carbon*

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## **GEOMORPHOLOGY »**

**FUNCTION:** *Transport of wood and sediment to create diverse bed forms and dynamic equilibrium*

**PARAMETERS:** *Sediment Transport Competency, Sediment Transport Capacity, Large Woody Debris Transport and Storage, Channel Evolution, Bank Migration/Lateral Stability, Riparian Vegetation, Bed Form Diversity, Bed Material Characterization*

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## **HYDRAULIC »**

**FUNCTION:** *Transport of water in the channel, on the floodplain, and through sediments*

**PARAMETERS:** *Floodplain Connectivity, Flow Dynamics, Groundwater/Surface Water Exchange*

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## **HYDROLOGY »**

**FUNCTION:** *Transport of water from the watershed to the channel*

**PARAMETERS:** *Channel-Forming Discharge, Precipitation/Runoff Relationship, Flood Frequency, Flow Duration*