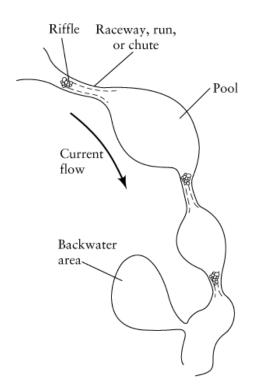
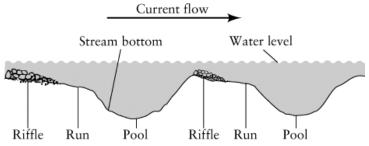
Rivers and streams

Riffles and pools







Rivers and Streams

Stream order – increases by one downstream with every confluence

1's beget 2's 2's beget 3's, . . .

Stream order only increases when 2 streams of equal rank meet

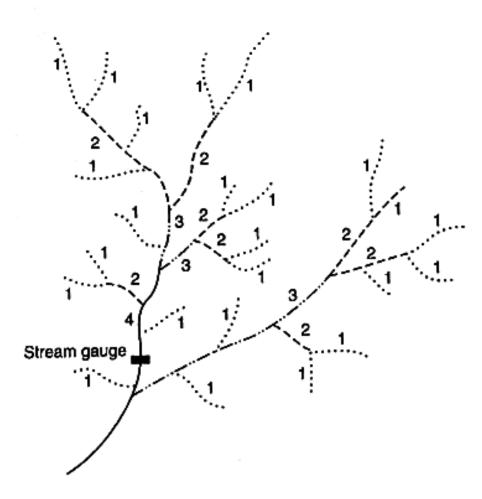


FIGURE 1.13 A drainage network illustrating stream order classification for a fourth-order watershed.

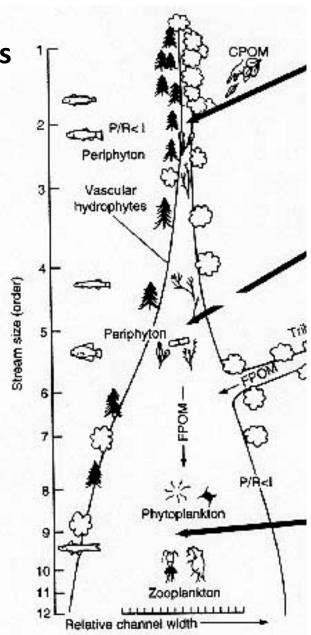
Amazon = 12, Nile, Mississippi = 10

Fish can assemble in relation to stream order

Headwater streams Order 1 - 3

Mid-sized streams Order 4 - 6

Large rivers Order > 6



Higher habitat diversity, structural diversity, depth, and productivity = more fish diversity

Today's Objectives

- Sample stream/river (lotic) system for fish using seines
- Identify and collect new species
- Determine whether species diversity differs between river habitat-types
- Determine whether species diversity and size distribution differ from headwater streams to higher order rivers