

# Demoulin's R1 Index

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## Terms & Definitions

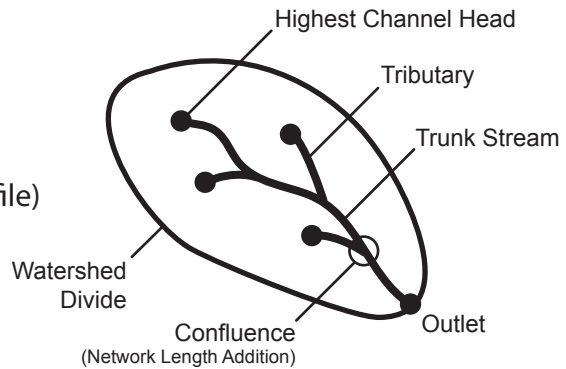
Hb = Basin area-elevation hypsometric curve

Hn = Channel network length curve

Hr = Trunk stream length curve (the long profile)

Ir = Area between Hb and Hn curves

Ib = Area between Hn and Hr curves



## Normalization

Normalization is the transformation of X and Y values to a standard range (0.0 to 1.0). Normalized values are comparable using a single chart. Normalize the values for all 3 curves so that both X and Y axes range from 0.0 to 1.0, which is essentially percent. Integrate over the limits 0 and 1 for both axes to find Area Ib and Area Ir.

