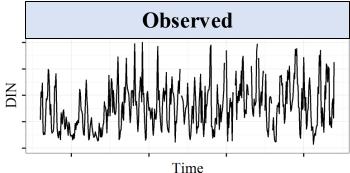
## $\ln(DIN) = \beta_0 + \beta_1 t + \beta_2 \ln(Q) + \beta_3 \sin(2\pi t) + \beta_4 \cos(2\pi t) + \varepsilon$



## Climate

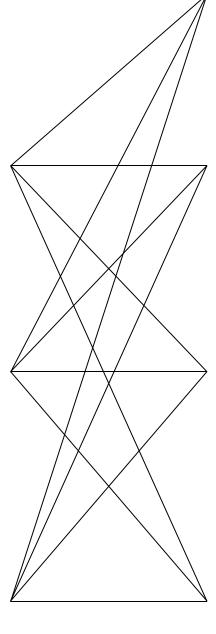
precipitation temperature wind events ENSO effects

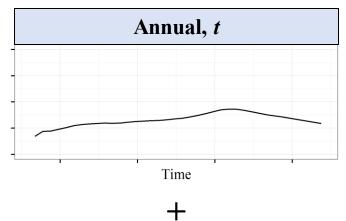
## Local

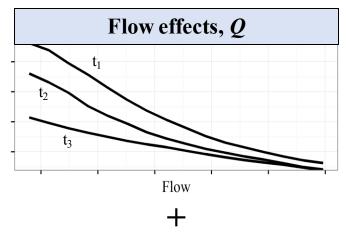
light/turbidity
residence time
invasive species
trophic interactions
invasive species

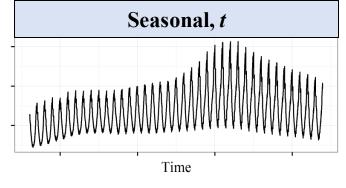
## Regional/Historical

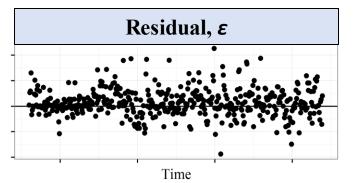
watershed inputs
point sources
management actions
flow changes
downstream effects











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