HMS Parameters

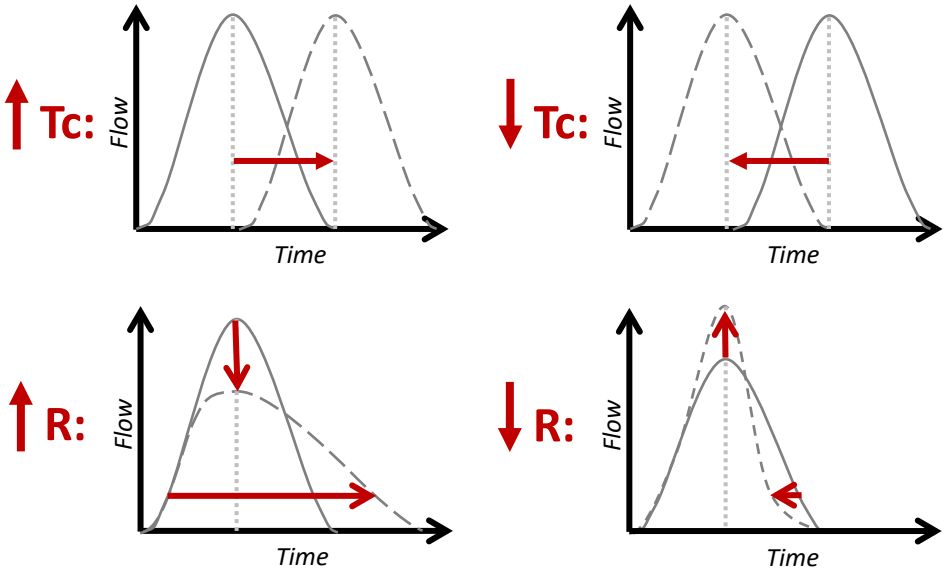
Transform (ModClark)

Parameters Impact Hydrograph **Timing** & **Attenuation** within Subbasins

$$\frac{R}{(T_c+R)} = Constant$$

R = Storage Coefficient (hr)
T_c = Time of Concentration (hr)

T_c =varies greatly (ex: 10-240 hrs)
$R/(T_c+R)$ = typ. 0.4 to 0.85

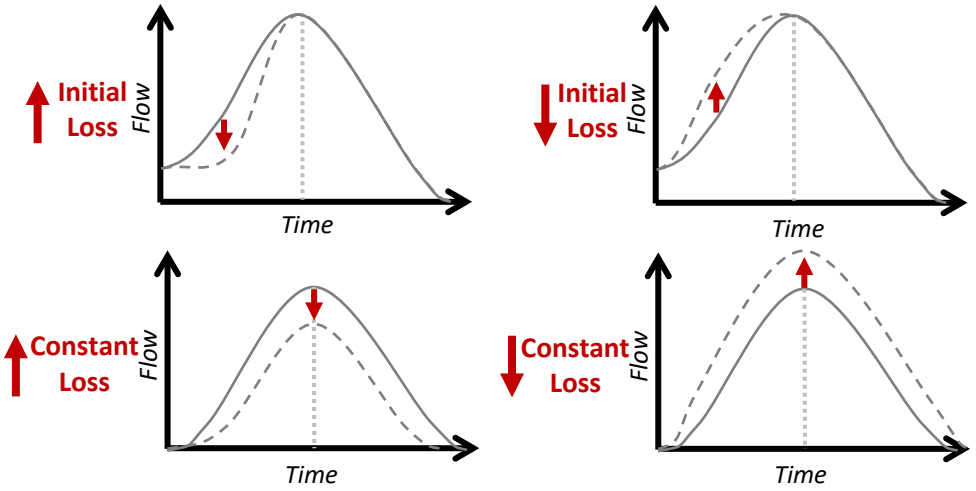


Loss (Deficit & Constant)

Parameters regulate how much precipitation infiltrates into the soil & what becomes runoff.
Dependent on watershed physical characteristics (constant) & antecedent conditions (initial).

Initial Loss: Typ. 0-2”

Constant Loss: Typ. 0-0.5 in/hr



Baseflow (Recession)

Parameters impact the hydrograph’s attenuation & recession.

Recession Constant = Baseflow recession slope.

Ratio to Peak: Threshold at which BF recession begins.

