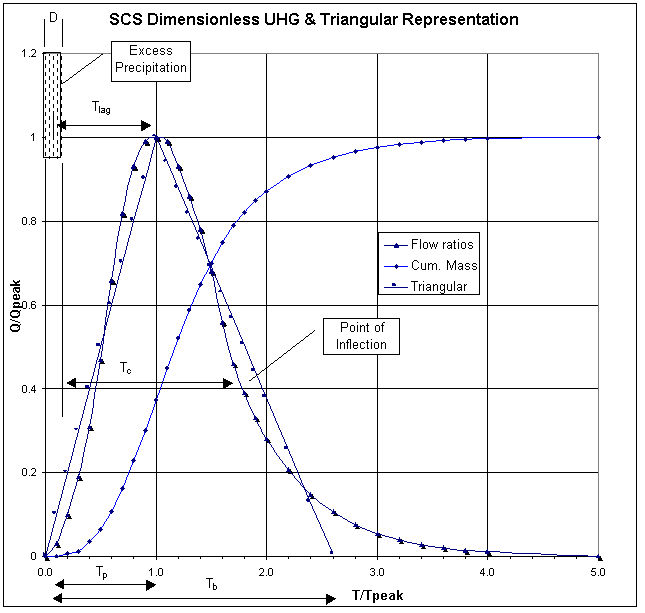
**Unit Hydrograph Mini-Lab**



**Equations:**

|  |  |
| --- | --- |
|  | *L* = hydraulic length (ft)  *Y* = slope (%)  *S* = potential max retention (inches) |
|  | *tc* = Time of concentration |
|  | *tP* = Time to peak |
|  | *Pe* = precipitation excess (inches, 1” in unit hydrograph case)  *Qd* = runoff depth (inches, 1” in unit hydrograph case) |
|  | Where 484 is the default peaking factor  Look up in table if want to change |
|  | *CN* is the curve number, an empirical coefficient based on land cover and soil type |

Look up CN here: <https://en.wikipedia.org/wiki/Runoff_curve_number>