Terminal Velocity

$$V_t = 970.5208 \left[1 - e^{\left(-\frac{0}{0.177} \right)^{1.147}} \right] \left[cm s^{-1} \right]$$

D: Diameter in cm

Rain Rate

$$\mathbb{R} = \sum_{i=1}^{n} \mathcal{N}(D_i) D_i^3 V_{t}(D_i) \stackrel{\text{TT}}{=} \mathcal{D} \qquad \left[m s^{-1} \right]$$

Conversion to mmhr - 1