Rainfall Intensity

$$I = \frac{28.5\ P_1}{(10+T_C)^{0.786}}$$

Where:

I = rainfall intensity (inches per hour)

P_1 = one-hour rainfall depth (inches) from Table 6-5 in the Colorado Springs DCM Volume 1

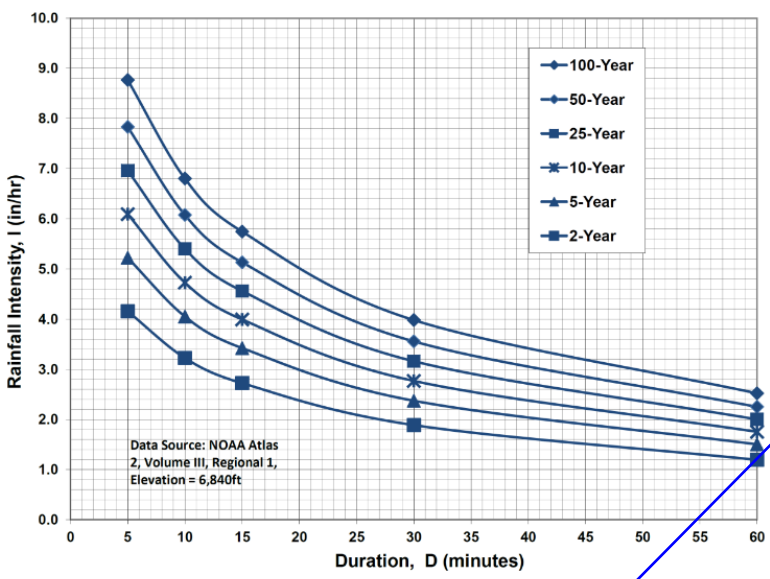
T_C = time of concentration (minutes)

Revise. This does not match the 2014 City DCM adopted by EPC.

Unresolved. The 100yr values in the table does not match Figure 6-5.

2-yr 5-yr 10-yr

Figure 6-5. Colorado Springs Rainfall Intensity Duration Frequency



on

R	100 YR
3	16.79
2	18.54
L	19.56
)	20.28
L	20.85
9	21.31
)	22.03
)	22.59
3	23.05
7	24.80

IDF Equations

$I_{100} = -2.52 \ln(D) + 12.735$

$I_{50} = -2.25 \ln(D) + 11.375$

$I_{25} = -2.00 \ln(D) + 10.111$

$I_{10} = -1.75 \ln(D) + 8.847$

$I_5 = -1.50 \ln(D) + 7.583$

$I_2 = -1.19 \ln(D) + 6.035$

Note: Values calculated by equations may not precisely duplicate values read from figure.