

TYPE OF SURFACE

RUNOFF COEFFICIENT

Rural Areas

Concrete or sheet asphalt pavement.....	0.8 - 0.9
Asphalt macadam pavement	0.6 - 0.8
Gravel roadways or shoulders	0.4 - 0.6
Bare earth.....	0.2 - 0.9
Steep grassed areas (2:1)	0.5 - 0.7
Turf meadows	0.1 - 0.4
Forested areas	0.1 - 0.3
Cultivated fields.....	0.2 - 0.4

Urban Areas

All water-tight roof surfaces	0.75 - 0.95
Bituminous or concrete pavement	0.80 - 0.95
Traffic bound pavement.....	0.70 - 0.90
Gravel pavement.....	0.35 - 0.70
Impervious soil (heavy)	0.40 - 0.65
Impervious soil (with turf).....	0.30 - 0.55
Slightly pervious soil	0.15 - 0.40
Slightly pervious soil (with turf).....	0.10 - 0.30
Moderately pervious soil	0.05 - 0.20
Moderately pervious soil (with turf)	0.00 - 0.10

Example of a Weighted "C" Factor

5% Water-tight roof surfaces.....	5% x 0.85 = 0.04
10% Bituminous or concrete pavement	10% x 0.9 = 0.09
10% Traffic bound pavement	10% x 0.8 = 0.08
50% Slightly impervious soil.....	50% x 0.4 = 0.2
15% Slightly impervious soil (with turf)	15% x 0.2 = 0.03
10% Moderately pervious soil	10% x 0.1 = <u>0.01</u>

WEIGHTED "C" FACTOR = 0.45

RUNOFF COEFFICIENTS FOR THE RATIONAL FORMULA**Figure 29-8A**