

Runoff Coefficients for Rational Method

Surface Characteristics	Runoff Coefficient Return Period (Years)				
	5	10	25	50	100
<u>Residential</u>					
Suburban > 1.0 AC.	0.30	0.35	0.40	0.50	0.60
Suburban .5 to 1.0 Ac.	0.35	0.40	0.45	0.52	0.60
Single-family >0.5 Ac.	0.45	0.50	0.53	0.59	0.65
Multi-units (Detached)	0.50	0.55	0.63	0.68	0.75
Multi-units (Attached)	0.65	0.68	0.73	0.77	0.80
Apartments	0.75	0.78	0.80	0.82	0.85
<u>Business</u>					
Downtown	0.85	0.88	0.91	0.93	0.95
Neighborhood	0.60	0.65	0.70	0.75	0.80
<u>Industrial</u>					
Light	0.70	0.75	0.80	0.83	0.85
Heavy	0.80	0.82	0.86	0.88	0.90
<u>Parks & Cemeteries</u>	0.20	0.27	0.37	0.45	0.55
<u>Playgrounds</u>	0.25	0.33	0.43	0.52	0.60
<u>Schools</u>	0.50	0.55	0.63	0.68	0.75
<u>Railroad Yards</u>	0.40	0.48	0.57	0.64	0.70
<u>Undeveloped Areas</u>	0.10	0.16	0.27	0.37	0.50
<u>Streets</u>					
Paved	0.80	0.85	0.90	0.92	0.95
Gravel	0.20	0.27	0.37	0.45	0.55
<u>Drives & Walks</u>					
Roofs	0.80	0.84	0.87	0.88	0.90
Lawns	0.10	0.16	0.27	0.37	0.50