

STORMWATER MANAGEMENT

160 Attachment 3

TABLE B-3
Rational Formula
Runoff Coefficients

Type of Drainage Area	Runoff Coefficient
Lawns:	
Sandy soil, flat, less than 2%	0.05-0.10
Sandy soil, average, 2 to 7%	0.10-0.15
Sandy soil, steep, greater than 7%	0.15-0.20
Heavy soil, flat, less than 2%	0.13-0.17
Heavy soil, average, 2 to 7%	0.18-0.22
Heavy soil, steep, greater than 7%	0.25-0.35
Business:	
Downtown areas	0.70-0.95
Neighborhood areas	0.50-0.70
Residential:	
Single-family areas	0.30-0.50
Multi units, detached	0.40-0.60
Multi units, attached	0.60-0.75
Suburban	0.25-0.40
Apartment dwelling areas	0.50-0.70
Industrial:	
Light areas	0.50-0.80
Heavy areas	0.60-0.90
Parks, cemeteries	0.10-0.25
Playgrounds	0.20-0.35
Railroad yard areas	0.20-0.40
Unimproved areas	0.10-0.30
Streets:	
Asphalt	0.70-0.95
Concrete	0.80-0.95
Brick	0.70-0.85
Drives and walks	0.75-0.85
Roofs	0.75-0.95

SOURCE: Ven Te Chow, 1964. Handbook of Applied Hydrology, McGraw-Hill Book Co.