

Change Pages for the Stormwater Management Manual 2012 Edition

Revision Date: April 04, 2012

Please print the following pages and replace the existing pages in your Stormwater Management Manual 2012 Edition. These pages reflect recent changes or corrections to the information presented in the manual.

Changes included:

Volume 3, Chapter 1, page 3-5 – Table 3-1 has been modified with the following changes under the section titled “Percentage impervious for modeling fully-developed conditions.”

- A new line was added for “Industrial” with a % impervious value of 70%
- The % impervious value for “Residential” was changed from 65% to 60%.

Table 3 - 1: Runoff Curve Numbers for Selected Agricultural, Suburban and Urban Areas¹

Cover type and hydrologic condition	CNs for hydrologic soil group ²			
	A	B	C	D
Curve Numbers for Pre-Development Conditions				
Pasture, grassland, or range-continuous forage for grazing:				
Fair condition (ground cover 50% to 75% and not heavily grazed)	49	69	79	84
Good condition (ground cover >75% and lightly or only occasionally grazed)	39	61	74	80
Woods:				
Fair condition (grazed but not burned, and some forest litter covers the soil)	36	60	73	79
Good condition (protected from grazing, and litter & brush adequately cover the soil)	30	55	70	77
Curve Numbers for Post-Development Conditions				
Open space (lawns, parks, golf courses, cemeteries, landscaping, etc.):				
Fair condition (grass cover on 50% to 75% of the area)	77	85	90	92
Good condition (grass cover on >75% of the area)	68	80	86	90
Impervious areas:				
Open water bodies (lakes, wetlands, ponds, etc.)	100	100	100	100
Paved parking lots, roofs, driveways, etc. (excluding right-of way)	98	98	98	98
Landscaped area	77	85	90	92
100% impervious area	98	98	98	98
Pasture, grassland, or range-continuous forage for grazing:				
Poor condition (ground cover <50% or heavily grazed with no mulch)	68	79	86	89
Fair condition (ground cover 50% to 75% and not heavily grazed)	49	69	79	84
Good condition (ground cover >75% and lightly or only occasionally grazed)	39	61	74	80
Woods:				
Poor condition (forest litter, small trees & brush are destroyed by heavy grazing or regular burning)	45	66	86	89
Fair condition (grazed but not burned, and some forest litter covers the soil)	36	60	73	79
Good condition (protected from grazing, and litter & brush adequately cover the soil)	30	55	70	77
Percentage impervious for modeling fully-developed conditions				
Land use description³	% impervious			
Commercial	85			
Industrial	70			
Residential	60			

1. Source: Soil Conservation Services Technical Release No. 55 (210 - VI TR55, Second Edition, June 1986)

2. Sites in the City of Tacoma shall be considered Type C soils unless a site specific soils investigation is conducted.

3. For the land use descriptions, roads are included in the percentage impervious.