



**City Utilities
Design Standard
Manual**

Exhibit SW5-3
Runoff Curve Numbers for Urban Areas

Created: May 2012

Revised:

<u>Cover Description</u>	<u>Average Percent Impervious Area</u>	<u>Curve Numbers for Hydrologic Soil Group</u>			
		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
<i>Fully Developed Urban Areas (vegetation established)</i>					
Open space (lawns, parks, golf courses, cemeteries, etc):					
Poor Condition (grass cover <50%)		68	79	86	89
Fair Condition (grass cover 50% to 75%)		49	69	79	84
Good Condition (grass cover >75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved; curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved; open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (previous areas only)		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1 to 2 inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential district by average lot size:					
1/8 acre or less (town houses)	65	77	85	90	92
1/4 acre	38	61	75	83	87
1/3 acre	30	57	72	81	86
1/2 acre	25	54	70	80	85
1 acre	20	51	68	79	84
2 acres	12	46	65	77	82
<i>Developing urban areas</i>					
Newly graded areas (previous areas only, no vegetation)		77	86	91	94
Idle lands					