

Appendix 11C-1 Equivalent Runoff Curve Number (RCN) for Rational ‘C’

RATIONAL METHOD “C” VALUES		N.R.C.S. “TR-55” METHOD “CN” VALUES					
LAND COVER	RUNOFF COEFFICIENT “C”	COVER TYPE & HYDROLOGIC CONDITION	Avg. % Imp.	Curve Numbers for Hydrologic Soil Group*			
				A	B	C	D
Business, industrial and commercial	0.80 to 0.90	Commercial and business Industrial	85 72	89 81	92 88	94 91	95 93
Residential lots 10,000 sq. ft. - lots 12,000 sq. ft. - lots 17,000 sq. ft. - lots ½ ac. or more	0.40 to 0.50 0.40 to 0.45 0.35 to 0.45 0.30 to 0.40	Residential area by lot size: 1/8 acre or less (town houses) ¼ acre 1/3 acre ½ acre 1 acre 2 acres Farmsteads – buildings, lanes, driveways, and surrounding lots	65 38 30 25 20 12 n.a.	77 61 57 54 51 46 59	85 75 72 70 68 65 74	90 83 81 80 79 77 82	92 87 86 85 84 82 86
Parks, cemeteries and unimproved areas Lawns	0.20 to 0.35 0.20 to 0.40	Open space (lawns, parks, golf courses Cemeteries, etc.) grass cover > 75%	n.a.	39	61	74	80
Paved and roof areas	0.9	Streets & roads: Paved parking lots, roofs, driveways, etc. Paved: open ditches (excluding R/W) Gravel (including R/W) Dirt (including R/W)	n.a. n.a. n.a. n.a.	98 83 76 72	98 89 85 82	98 92 89 87	98 93 91 89
Cultivated areas	0.50 to 0.70	Cultivated areas (combination of straight & Row crops)	n.a.	71	80	87	90
Pasture	0.35 to 0.45	Pasture, grassland, or range Meadow – continuous grass Brush-brush-weed-grass mixture with brush the major element	n.a. n.a. n.a.	39 30 30	61 58 48	74 71 65	80 78 73
Forest	0.20 to 0.30	Woods Woods/grass combination	n.a. n.a.	30 32	55 58	70 72	77 79

If the accurate soil information is not available use Soil Group B.