

Minnesota Region	Natural Vegetation	Developed Site Imperviousness	X needed for "X times the impervious area" to not exceed the Natural Average Annual Runoff Volume (inches)			Retainage from Percentile Storm needed to not exceed the Natural Average Annual Runoff Volume (Precipitation Amount, inches)		
			Hydrologic Soil Group			Hydrologic Soil Group		
			A	B	C	A	B	C
North Central (93% storm = 1.25")	Meadow	20%	1	0.8	0.8	92.0% (1.15)	89.5% (1.03)	87.5% (0.98)
		80%	1	0.9	0.9	92.0% (1.15)	91.0% (1.10)	91.0% (1.10)
		Average	1	0.85	0.85	92.0% (1.15)	90.3% (1.06)	89.3% (1.04)
	Woods	20%	1	1	1	92.0% (1.15)	92.0% (1.15)	90.0% (1.05)
		80%	1	1	1	92.0% (1.15)	92.0% (1.15)	92.0% (1.15)
		Average	1	1	1	92.0% (1.15)	92.0% (1.15)	91.0% (1.10)
	Average	Average	1	0.93	0.93	92.0% (1.15)	91.1% (1.11)	90.1% (1.07)
Metro (93% storm = 1.25")	Meadow	20%	1.2	1.2	1.3	95.5% (1.48)	95.0% (1.40)	93.0% (1.25)
		80%	1.2	1	1	94.0% (1.35)	93.5% (1.30)	92.0% (1.20)
		Average	1.2	1.1	1.15	94.8% (1.41)	94.3% (1.35)	92.5% (1.23)
	Woods	20%	1.3	1.5	1.6	96.0% (1.55)	97.0% (1.60)	95.0% (1.40)
		80%	1.2	1.1	1.1	95.0% (1.40)	93.5% (1.30)	93.0% (1.25)
		Average	1.25	1.3	1.35	95.5% (1.48)	95.3% (1.45)	94.0% (1.33)
	Average	Average	1.23	1.2	1.25	95.1% (1.44)	94.8% (1.40)	93.3% (1.28)
Southeast (93% storm = 1.3")	Meadow	20%	1.2	1.2	1.2	94.0% (1.45)	92.5% (1.28)	91.0% (1.20)
		80%	1.2	1.1	1.1	94.0% (1.45)	92.5% (1.28)	92.5% (1.28)
		Average	1.2	1.15	1.15	94.0% (1.45)	92.5% (1.28)	91.8% (1.24)
	Woods	20%	1.3	1.4	1.4	95.0% (1.50)	95.0% (1.50)	92.5% (1.28)
		80%	1.2	1.2	1.2	94.0% (1.45)	93.5% (1.38)	93.0% (1.30)
		Average	1.25	1.3	1.3	94.5% (1.48)	94.3% (1.44)	92.8% (1.29)
	Average	Average	1.23	1.23	1.23	94.3% (1.46)	93.4% (1.36)	92.3% (1.26)
Overall Average	Average	Average	1.15	1.12	1.13	93.8%	93.1%	91.9%