

| 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) | |
| | | <i>Average</i> | <i>1</i> | <i>0.85</i> | <i>0.85</i> | <i>92.0% (1.15)</i> | <i>90.3% (1.06)</i> | <i>89.3% (1.04)</i> | |
| | 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) | |
| | | <i>Average</i> | <i>1</i> | <i>1</i> | <i>1</i> | <i>92.0% (1.15)</i> | <i>92.0% (1.15)</i> | <i>91.0% (1.10)</i> | |
| | <i>Average</i> | <i>Average</i> | <i>1</i> | <i>0.93</i> | <i>0.93</i> | <i>92.0% (1.15)</i> | <i>91.1% (1.11)</i> | <i>90.1% (1.07)</i> | |
| | 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) |
| <i>Average</i> | | | <i>1.2</i> | <i>1.1</i> | <i>1.15</i> | <i>94.8% (1.41)</i> | <i>94.3% (1.35)</i> | <i>92.5% (1.23)</i> | |
| 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) | |
| | | <i>Average</i> | <i>1.25</i> | <i>1.3</i> | <i>1.35</i> | <i>95.5% (1.48)</i> | <i>95.3% (1.45)</i> | <i>94.0% (1.33)</i> | |
| <i>Average</i> | | <i>Average</i> | <i>1.23</i> | <i>1.2</i> | <i>1.25</i> | <i>95.1% (1.44)</i> | <i>94.8% (1.40)</i> | <i>93.3% (1.28)</i> | |
| 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) |
| | <i>Average</i> | | <i>1.2</i> | <i>1.15</i> | <i>1.15</i> | <i>94.0% (1.45)</i> | <i>92.5% (1.28)</i> | <i>91.8% (1.24)</i> | |
| | 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) | |
| | | <i>Average</i> | <i>1.25</i> | <i>1.3</i> | <i>1.3</i> | <i>94.5% (1.48)</i> | <i>94.3% (1.44)</i> | <i>92.8% (1.29)</i> | |
| | <i>Average</i> | <i>Average</i> | <i>1.23</i> | <i>1.23</i> | <i>1.23</i> | <i>94.3% (1.46)</i> | <i>93.4% (1.36)</i> | <i>92.3% (1.26)</i> | |
| | Overall Average | Average | Average | 1.15 | 1.12 | 1.13 | 93.8% | 93.1% | 91.9% |