

TABLE M-1

UNDERGROUND OUTLET CAPACITY VS. BASIN STORAGE VOLUME

Flooding Duration (hours)	Outlet Capacity (cfs per/acre per/inch runoff)	Storage Volume (% of runoff volume)
6	0.168	42
9	0.112	48
12	0.084	53
18	0.056	59
24	0.042	63
36	0.028	69
48	0.021	75

NOTE: To determine total storage volume, add sediment storage volume to water storage volume after the credit for flood routing has been taken.

The minimum water storage volume required is one inch of runoff from the drainage area.

Table M-1 is based on a simplified mas curve routing technique for a 10-year, 24 hour design storm. Table M-1 may be used in Minnesota to design underground outlets for terraces, diversions, and water and sediment control basins.