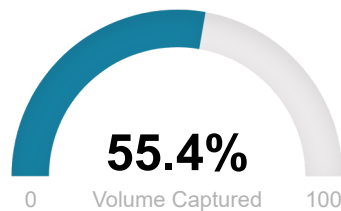


Compare the performance, costs, and benefits of Green Infrastructure to conventional stormwater practices.

This calculator allows you to define one or more properties and then evaluate what combination of Green Infrastructure Best Management Practices (BMPs) meet the necessary volume capacity capture goal in a cost-effective way.



Results: The green infrastructure applied in this scenario increases the area's potential volume capture capacity by **62,277.4 ft³** or **55.4%** of the desired goal.

Total Land Use

Land Use	Original Area	Area including BMP(s)
Total Impervious Area	2,700,720 ft ²	2,653,420 ft ²
Flat Roof	871,200 ft ²	870,900 ft ²
Green Roof		300 ft ²
Sidewalk	261,360 ft ²	261,360 ft ²
Permeable Patio		47000 ft ²
Parking Surface	1,045,440 ft ²	1,045,440 ft ²
Driveway	174,240 ft ²	174,240 ft ²
Street	348,480 ft ²	348,480 ft ²
Total Landscape Area	522,720 ft ²	522,720 ft ²
Lawn/Turf	261,360 ft ²	261,360 ft ²
Shrub and Bushes	261,360 ft ²	261,360 ft ²
Total BMP Area		47,300 ft ²

Total Lot Area	3,223,440 ft ²	3,223,440 ft ²
Other Volume Control		0 gallons

Volume Control

Required Volume Capture Potential from 0.5" over 2700720 ft² of impervious area is: 112,530 ft³ or 841,783 Gallons.

BMP	ft³	Gallons
Green Roof	57.5	430.1
Trees	51126.4	382452.1
Bio-Swales	680.2	5088.2
Urban Farming/Gardening	2450	18327.3
Raised Bed	130	972.5
Permeable Patio	7833.3	58597.4
Total of all BMPs	62,277.4	465,867.6
Percentage of Volume Capacity Capture Goal	55.4	%

Runoff and Hydrology

Runoff	Without BMPs	With BMPs	Difference
Average Annual Rainfall: 32.64" Rain			
Runoff	11.384"	8.745"	23%
Runoff Volume	3057962.9 ft ³ 22875152.8 gal.	2348987.8 ft ³ 17571650 gal.	708975.2 ft ³ 5303502.9 gal.
Average Storm Rainfall: 2.33" Rain			
Runoff	1.732"	1.553"	10%
Runoff Volume	465200.6 ft ³ 3479942.4 gal.	417141.8 ft ³ 3120437.5 gal.	48058.8 ft ³ 359504.9 gal.
Hydrology			
Average Initial Abstractions Rainfall: " Rain			
Initial Abstractions	0.12"	0.17"	0.05%
Initial Abstractions Volume	32653.35 ft ³ 244264.03 gal.	45444.82 ft ³ 339950.85 gal.	12791.47 ft ³ 95686.82 gal.
Average Cumulative Abstractions			
Cumulative Abstractions	0.61"	0.85"	0.24%
Cumulative Abstractions Volume	163266.74 ft ³ 1221320.14 gal.	227224.08 ft ³	63957.33 ft ³

		1699754.26 gal.	478434.12 gal.
Curve Number	94.3	92.2	

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