

BMP SUITABILITY MATRIX

	Site Factors																	Designed to Provide Factors							Maintenance Factors													
	Site Conditions						Drainage Area				Land Use					Land Ownership		Development Type			Location			Water Quality			Water Quantity			Added Value Benefits								
	Steep Slopes	High Groundwater Tables	Shallow Bedrock	Slow Draining Soils	Expansive Clay Soils	Contaminated Soils	Rooftops	Roadways	Sidewalks	Landscapes	Single-family Residential Lot	Subdivisions & Campuses	Commercial	Institutional	Roads and Public Right-of-Way	Industrial	Private	Public	Retrofit	Redevelopment	New Development	Urban	Suburban	Rural	On-site	Downstream	Flood Control	Evaporation	Aquifer Recharge	Aesthetics	Air Quality	Community Identity	Habitat	Public Health	Establishment	Post-Establishment		
Prevent Runoff: Minimize Impervious Area BMPs																																						
Share Parking Spaces BMP	3	3	3	3	3	3		3				2	3	2		1	2	2	2	2	3	3	2	2	M	H	L	M	L	M	L	M			H			
Minimize Pavement Widths BMP	3	3	3	3	3	3			3	3		3	3	2	3	3	1	3	3	2	2	3	2	2	3	M	H	L	M	L	M	L			L	H		
Minimize Front Setbacks BMP	3	3	3	3	3	3		3	3		3	2		2			3	2	1	3	3	3	1		M	H	L	M	L	L	L					H		
Share a Driveway BMP	3	3	3	3	3	3					3	3	2	3		1	3	2	1	2	3	3	2	2	M	H	L	M	L	M	L	M				H		
Minimize Building Footprint(s) BMP	3	3	3	3	3	3	3				2	3	3	3		2	3	2	1	3	3	3	3		M	H	L	M	L	L	L				H			
Minimize New Pavement BMP	3	3	3	3	3	3		3	3		3	3	3	3	2	3	3	3	2	3	3	2	2	3	M	H	L	M	L	M	L			L	H			
Prevent Runoff: Limit Disturbance BMPs																																						
Construction Sequencing BMP	3	3	3	3	3	3					3	3	3	3	3	3	3	3	3	3	3	3	3	3	H	H	L	L	L			M			M	M		
Conserve Fast(er) Draining Soils BMP	3	3	3	3	3	3				3	3	3	3	2	1	3	3	3	3	3	3	3	3	3	M	H	L	M	L					L	H			
Cluster Development BMP	3	3	3	3	3	3	3	3	3	3		3	3	2	2		2	3	3	1	2	2	3	3	H	H	L	H	L	L	L	L	H	M	H	M		
Riparian Buffer(s) BMP	3	3	3	3	3	3		3	3	3	3	3	2	2	3	2	3	3		1	3	2	3	3	H	H	M	L	L	L	H	H	H	H	H	M	L	
Tree Protection BMP	3	3	3	3	3	3	2	3	3	3	3	3	2	2	3	2	3	3	3	2	2	3	3	3	H	H	L	M	L	L	H	H	H	H	H			
Minimal Foundation BMP	3	3	3	3	3	3	3				3	2	3	3		3	3	3	1	3	3	3	3	L	M	H		L	L				L	L				
Prevent Runoff from Landscape and Hardscape Areas																																						
Restored Soils BMP	3	3	3	3	3	3				3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	H	H	L	M	M	H	H			M	L	M	L	
Tree Planting BMP	3	3	3	3	3	3	1	2	2	3	2	3	1	2	2	2	3	3	3	3	3	3	3	3	M	H	M	M	M	H	H	H	H	H	H	M	L	
Depave Existing Pavement BMP	3	3	3	3	3	3		2	2		2	3	2	3	2	2	3	3	3	3	2	2	3	3	M	H	M	M	M	M	H	M	L	H	M	L		
Contained Planter(s) BMP	3	3	3	3	3	3	2	3	3		3	3	3	3	2	2	3	3	3	3	2	2	3	3	M	M	L	H		H	L	M	L	M	L	H	M	
Vegetated Roofs (Green Roofs) BMP	3	3	3	3	3	3	3				2	2	3	2		2	3	1	2	3	3	3	2	M	M	M	H		H	H	M	H	M	L	M	L		
Porous Pavement BMP		1	1	3			3	2	2		2	3	3	3	3	3	2	3	1	1	3	3	2	2	H	H	H	L	H	L	L	L	L	L	H	L	L	
Reduce Runoff from Landscape and Hardscape Areas																																						
Stormwater Planter BMP				2	3		3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	H	H	H	M	H	H	H	M	L	M	H	M		
Infiltration Rain Garden BMP				2	3		3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	H	H	H	M	H	H	H	M	L	M	H	M		
Soakage Trench BMP		1	1	2			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	H	H	H		H	L		L	L	L	M	M		
Drywell BMP		1	3	2			3	2	2	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	H	H	H		H			L	L	L	M	M		
Rain Barrels or Cisterns BMP	3	3	3	3	3	3	3				3	3	2	3		2	3	1	3	3	3	2	3	3	M	L	L	L	L	L				M	M	M		
WQ Conveyance Swale BMP	3	3	3	3	3		3	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	M	L	L	L	L	L	H	M	L	L	L	L	H	M
Dispersion: Downspout Disconnection BMP		1	1	3	3		3				3	3	2	3		2	3	3	3	3	3	3	2	3	M	L	L	L	L	L	L	L	L	L	L	M	M	
Dispersion: Vegetated Filter Strips BMP		1	1	3	3		1	3	3	3	3	3	2	3	3	2	3	3	3	3	3	3	3	3	M	L	L	L	L	L	L	M	L	L	L	L	M	M

Suitability Level	
3	Well Suited to Condition
2	Moderately Suited to Condition
1	Less Suited to Condition
	Not Applicable
Effectiveness Level	
H	High Effectiveness
M	Medium Effectiveness
L	Low Effectiveness (Supports Function)
	Not Applicable
Added Value Benefits	
H	High Benefits
M	Medium Benefits
L	Low Benefits
	Not Applicable
Maintenance Level	
H	Seasonal Maintenance
M	Fall-Spring Maintenance
L	Yearly Maintenance
	Not Applicable

This matrix was adapted from *Low Impact Development in Western Oregon: A Practical Guide for Watershed Health* (2017). Green Girl Land Development Solution LLC first developed this matrix to guide green infrastructure professionals in identifying suitable BMPs for Western Oregon. Oregon State University adapted and expanded the BMP Suitability Matrix for this course to include location, social and ecological benefits and general maintenance considerations.

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