



The following chart is derived from a 2019 U of Florida study comparing the cost-effectiveness of various stormwater BMPs at 14 Florida MS4s. Link below is to an interview conducted by Ranger Kidwell-Ross, WS.com's Editor, with Dr. John Sansalone, University of Florida Principal Study Researcher. Link to article, study and one-hour audio podcast located at: <https://bit.ly/2TrCxxv1>

## Street Sweeping Far More Effective — and Cost-Effective — Than All Other BMPs for Stormwater Runoff Pollutant Removal

### **\$Cost/Pound: TN, TP, PM for Separation or Recovery**

All \$Costs/Pound Updated to Reflect 2020 CPI

TN = Total Nitrogen • TP = Total Phosphorus • PM = Particulate Matter

Separation or Recovery Method	Cost (\$/lb) (excluding SW landfill costs)		
	TN	TP	PM
BMP Treatment Train <sup>a</sup>	\$1,068	\$37,243	\$29.70
FL Database for BMPs <sup>b</sup>	\$2,171	\$11,995	\$46.84
Screened Hydrodynamic Separator <sup>c</sup> (Range of costs shown in parentheses.)	\$4,261 (\$1,462 - 16,976)	\$10,521 (\$3,621 - \$41,903)	\$4.60 (\$1 - \$15)
Baffled Hydrodynamic Separator <sup>c</sup> (Range of costs shown in parentheses.)	\$3,450 (\$1,462 - \$16,976)	\$ 8,511 (\$3,621 - \$41,904)	\$ 3.43 (1 - 15)
Catch Basin Cleaning <sup>d</sup> (2nd lowest)	\$1,016	\$1,656	\$0.70
<b>Street Cleaning (lowest cost)</b>	<b>\$189</b>	<b>\$294</b>	<b>\$0.11</b>

<sup>a</sup> Wet basin sedimentation followed by granular media filtration, University of Florida, 2010.

<sup>b</sup> TMDL database for Florida Best Management Practices, 2009

<sup>c</sup> Based on 2000 m2 urban catchment draining to a screened hydrodynamic separator (HS) with 50% PM annual removal efficiency based on clean sump conditions

<sup>d</sup> Based on 100 dry pounds of PM recovery with an annual cleaning frequency

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