

Location: Stormwater – WinSLAMM – new page attached to WinSLAMM 3

**East Branch DuPage River – 22nd Street Tributary
WinSLAMM Model Results**

East Branch DuPage Watershed - 22nd Street Tributary Pollutant Loading by Land Use							
Land Usage	Residential	Institutional/Educational	Commercial	Industrial	Open Space	Freeway	Total
Total Acreage	330	14	74	42	23	11	494
Percentage of Total Area	67%	3%	15%	9%	5%	2%	100%
Existing TS Load (lbs/yr)	157,518	1,132	41,167	59,749	3,146	10,610	273,320
% TS Load	58%	>1%	15%	22%	1%	4%	100%
Existing TP Load (lbs/yr)	371.9	2.8	73	72.8	13.1	18.6	552.2
% TP Load	67%	1%	13%	13%	2%	3%	100%

East Branch DuPage Watershed - 22nd Street Tributary Pollutant Loading by Source Area					
% Pollutant Load From Area	Roofs	Parking Lots, Driveways and sidewalks	Open Space	Streets	Total
Total Solids	10%	37%	14%	39%	100%
Total Phosphorus	8%	26%	32%	34%	100%
% of Total Acreage	16%	21%	50%	12%	100%
Total Acreage	78	105	249	61	494

From these results we can see that the largest contributing source area of Total Solids in the 22nd Street Tributary watershed is streets with 39% of the load coming from just 12% of the watershed area. Adding up all of the impervious source areas, streets, roofs, parking lots, driveways and sidewalks, 68% of loading comes from 50% of the land area. The open space areas include parks, golf courses and forest preserves and account for 50% of the source area and only 32% of the Total Solids loading. This type of information can help us to prioritize where to implement BMPs.

**East Branch - 22nd Street Tributary
Areas Treated**

Treatment Level	Area Treated (Acres)						Percentage of Watershed Treated	Total Solids Reduction	Total Phosphorus Reduction
	Residential	Institutional/ Educational	Commercial	Industrial	Open Space	Total			
Rain Garden (Treats Roofs and Parking Lots and Residential Landscaping)									
10%	26.8	0.1	3.5	3.1	0.0	33.5	6.8%	1.8%	1.8%
25%	67.1	0.3	8.7	7.7	0.0	83.8	17.0%	4.4%	4.4%
50%	134.2	0.6	17.4	15.7	0.0	167.8	34.0%	8.8%	8.9%
100%	268.3	1.1	34.7	31.4	0.0	335.5	67.9%	17.6%	17.9%
Porous Pavement(Treats Parking Lots and Driveways)									
10%	6.1	0.0	2.3	0.7	0.0	9.1	1.8%	0.9%	0.6%
50%	11.6	0.0	7.4	4.4	0.0	23.3	4.7%	6.8%	4.4%
100%	60.7	0.0	23.4	7.1	0.0	91.1	18.4%	23.1%	15.3%
Rain Barrels (Treats Residential Roofs)									
10%	4.2	0.0	0.0	0.0	0.0	4.2	0.9%	0.0%	0.0%
25%	10.4	0.0	0.0	0.0	0.0	10.4	2.1%	0.0%	0.1%
50%	20.8	0.0	0.0	0.0	0.0	20.8	4.2%	0.1%	0.1%
100%	41.6	0.0	0.0	0.0	0.0	41.6	8.4%	0.2%	0.2%
Mechanical Street Sweeping (Treats Streets)									
2 per Week	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	4.1%	3.5%
1 per Week	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	3.1%	2.7%
2 Weeks	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	1.8%	1.6%
4 Weeks	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	1.8%	1.6%
Vacuum Street Sweeping (Treats Streets)									
2 per Week	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	8.1%	7.7%
1 per Week	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	5.5%	5.2%
2 Weeks	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	2.9%	2.8%
4 Weeks	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	2.2%	2.0%

Centrifugal Separators (Treats Streets)									
10% Installation	3.6	0.0	0.7	0.7	0.0	5.0	1.0%	1.8%	2.2%
25% Installation	8.9	0.0	1.9	1.8	0.0	12.5	2.5%	3.8%	3.9%
50% Installation	17.8	0.0	3.7	3.5	0.0	25.0	5.1%	7.1%	6.9%
100% Installation	35.6	0.0	7.4	7.0	0.0	50.1	10.1%	13.8%	12.7%
Dry Wells (Treats Residential Roofs)									
10%	4.2	0.0	0.0	0.0	0.0	4.2	0.9%	0.0%	0.0%
25%	10.4	0.0	0.0	0.0	0.0	10.4	2.1%	0.1%	0.1%
50%	20.8	0.0	0.0	0.0	0.0	20.8	4.2%	0.1%	0.1%
100%	41.6	0.0	0.0	0.0	0.0	41.6	8.4%	0.3%	0.3%