

**West Branch DuPage River – Tributary 3 (WBW3)
WinSLAMM Model Results**

West Branch DuPage Watershed - Tributary 3 Pollutant Loading by Land Use						
Land Usage	Residential	Institutional/ Educational	Commercial	Industrial	Open Space	Total
Total Acreage	493	70	33	41	247	884
Percentage of Total Area	56%	8%	4%	5%	28%	100%
Existing TS Load (lbs/yr)	144,625	11,861	21,167	33,018	24,447	235,118
% TS Load	62%	5%	9%	14%	10%	100%
Existing TP Load (lbs/yr)	438.5	31.9	31.4	41.8	93.9	637.4
% TP Load	69%	5%	5%	7%	15%	100%

West Branch DuPage Watershed - Tributary 3 Pollutant Loading by Source Area					
% Pollutant Load From Area	Roofs	Parking Lots, Driveways and sidewalks	Open Space	Streets	Total

Total Solids	5%	21%	35%	39%	100%
Total Phosphorus	3%	11%	58%	28%	100%
% of Total Acreage	6%	7%	80%	7%	100%
Total Acreage	49	64	709	62	884

From these results we can see that the largest contributing source area of Total Solids in the Tributary 3 watershed is streets with 39% of the load coming from just 7% of the watershed area. Adding up all of the impervious source areas, streets, roofs, parking lots, driveways and sidewalks, 65% of loading comes from 20% of the land area. The open space areas include parks, golf courses and forest preserves and account for 80% of the source area and only 35% of the Total Solids loading. This type of information can help us to prioritize areas to implement BMPs.

**West Branch - Tributary 3 - WBW3
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%	41.8	0.2	1.9	1.4	0.0	45.3	5.1%	2.4%	3.2%
25%	104.5	0.5	4.9	3.4	0.0	113.3	12.8%	6.1%	8.1%
50%	209.1	0.9	9.6	6.7	0.0	226.4	25.6%	12.2%	16.3%
100%	418.2	1.8	19.3	13.4	0.0	452.7	51.2%	24.3%	32.6%
Porous Pavement(Treats Parking Lots and Driveways)									
10%	2.3	0.0	1.5	0.9	0.0	4.7	0.5%	3.1%	2.1%
50%	11.6	0.0	7.4	4.4	0.0	23.3	2.6%	5.1%	2.4%
100%	23.3	0.0	14.7	8.7	0.0	46.7	5.3%	15.1%	7.2%
Rain Barrels (Treats Residential Roofs)									
10%	3.74	0	0	0	0	3.7	0.4%	0.0%	0.0%
25%	9.36	0	0	0	0	9.4	1.1%	0.1%	0.0%
50%	18.77	0	0	0	0	18.8	2.1%	0.1%	0.1%
100%	37.50	0	0	0	0	37.5	4.2%	0.3%	0.2%
Mechanical Street Sweeping (Treats Streets)									
2 per Week	48.1	2.6	4.9	6.4	0.0	62.0	7.0%	5.2%	4.0%
1 per Week	48.1	2.6	4.9	6.4	0.0	62.0	7.0%	3.0%	2.2%
2 Weeks	48.1	2.6	4.9	6.4	0.0	62.0	7.0%	1.8%	1.3%
4 Weeks	48.1	2.6	4.9	6.4	0.0	61.9	7.0%	1.8%	1.3%
Vacuum Street Sweeping (Treats Streets)									
2 per Week	48.1	2.6	4.9	6.4	0.0	62.0	7.0%	8.8%	6.7%
1 per Week	48.1	2.6	4.9	6.4	0.0	62.0	7.0%	6.0%	4.5%
2 Weeks	48.1	2.6	4.9	6.4	0.0	62.0	7.0%	3.2%	2.5%
4 Weeks	48.1	2.6	4.9	6.4	0.0	62.0	7.0%	2.3%	1.7%
Centrifugal Separators (Treats Streets)									
10% Installation	4.8	0.3	0.5	0.6	0.0	6.2	0.7%	1.3%	1.0%
25% Installation	12.0	0.7	1.2	1.6	0.0	15.5	1.8%	3.4%	2.6%
50% Installation	24.0	1.3	2.4	3.2	0.0	31.0	3.5%	6.7%	5.1%
100%	48.1	2.6	4.9	6.4	0.0	62.0	7.0%	13.4%	10.3%

Installation									
Dry Wells (Treats Residential Roofs)									
10%	3.74	0	0	0	0	3.7	0.4%	0.1%	0.0%
25%	9.36	0	0	0	0	9.4	1.1%	0.2%	0.1%
50%	18.77	0	0	0	0	18.8	2.1%	0.4%	0.3%
100%	37.50	0	0	0	0	37.5	4.2%	1.0%	0.8%