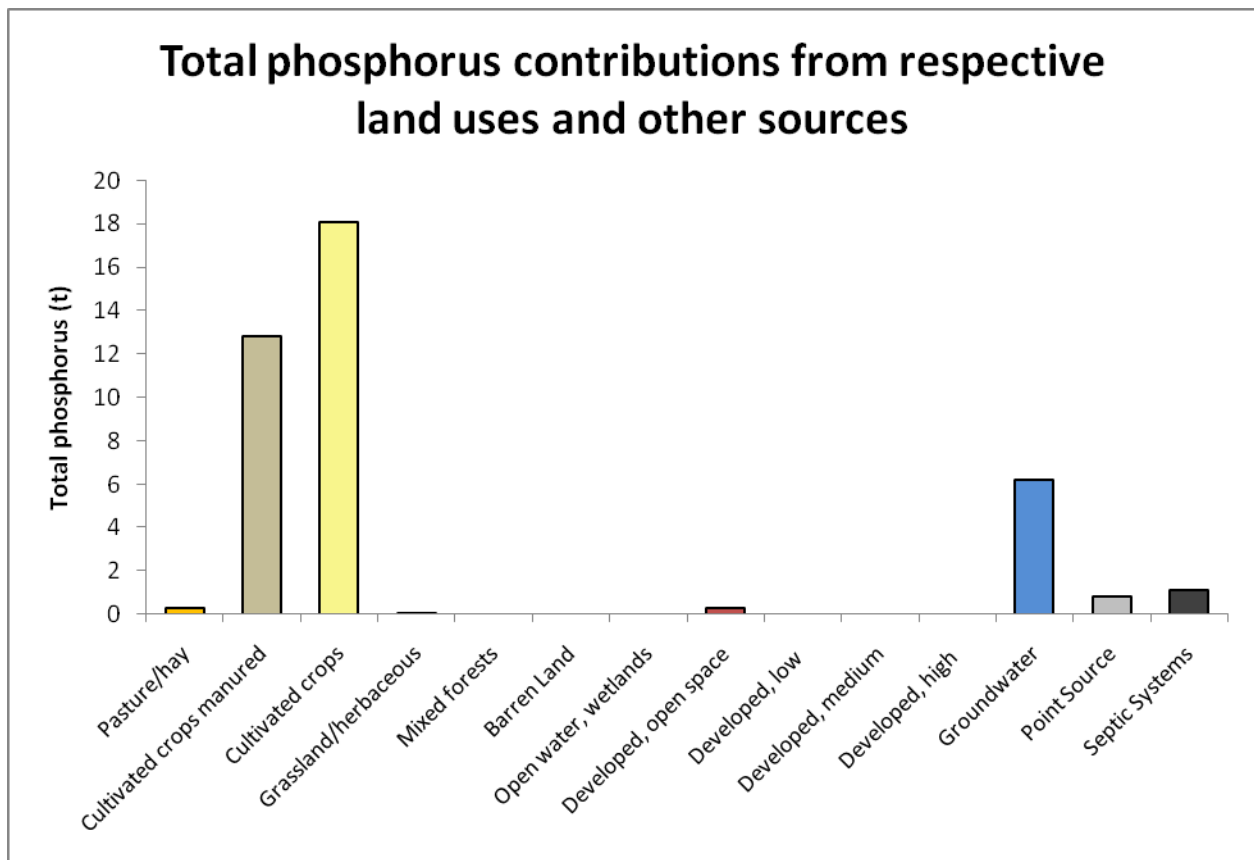


**Appendix B: Blanchard Watershed Total Phosphorus
Loading Based on Land Use and Other
Sources**

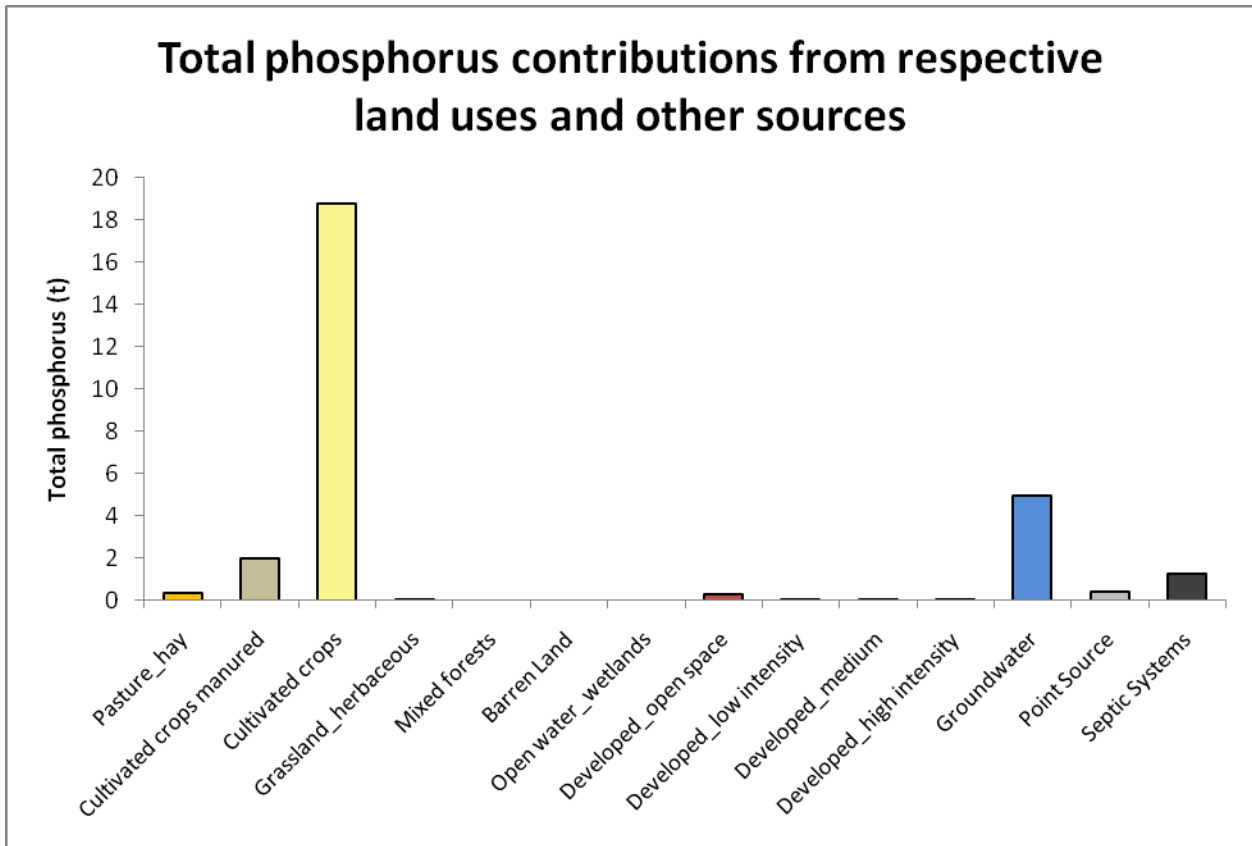
**Headwaters of
Blanchard R
HUC 010**

	Area (ha)	Runoff (cm)	Erosion (t/ha)	Dis. P (t)	Tot. P (t)
Pasture/hay	503	4.88	0.0874	0.2593	0.2654
Cultivated crops manured	9351	6.41	5.0319	6.2198	12.8241
Cultivated crops	20722	6.41	5.0319	3.4514	18.0867
Grassland/herbaceous	643	3.15	0.0874	0.0304	0.0383
Mixed forests	2328	2.43	0	0.0042	0.0042
Barren Land	13	5.33	0	0	0
Open water, wetlands	108	11.68	0	0	0
Developed, open space	2211	13.03	0	0	0.2787
Developed, low	473	4.88	0	0	0.023
Developed, medium	53	9.46	0	0	0.0106
Developed, high	24	49.26	0	0	0.0072
Groundwater				6.2025	6.2025
Point Source				0.817	0.817
Septic Systems				1.1116	1.1116
TOTAL	36429			18.0961	39.6693



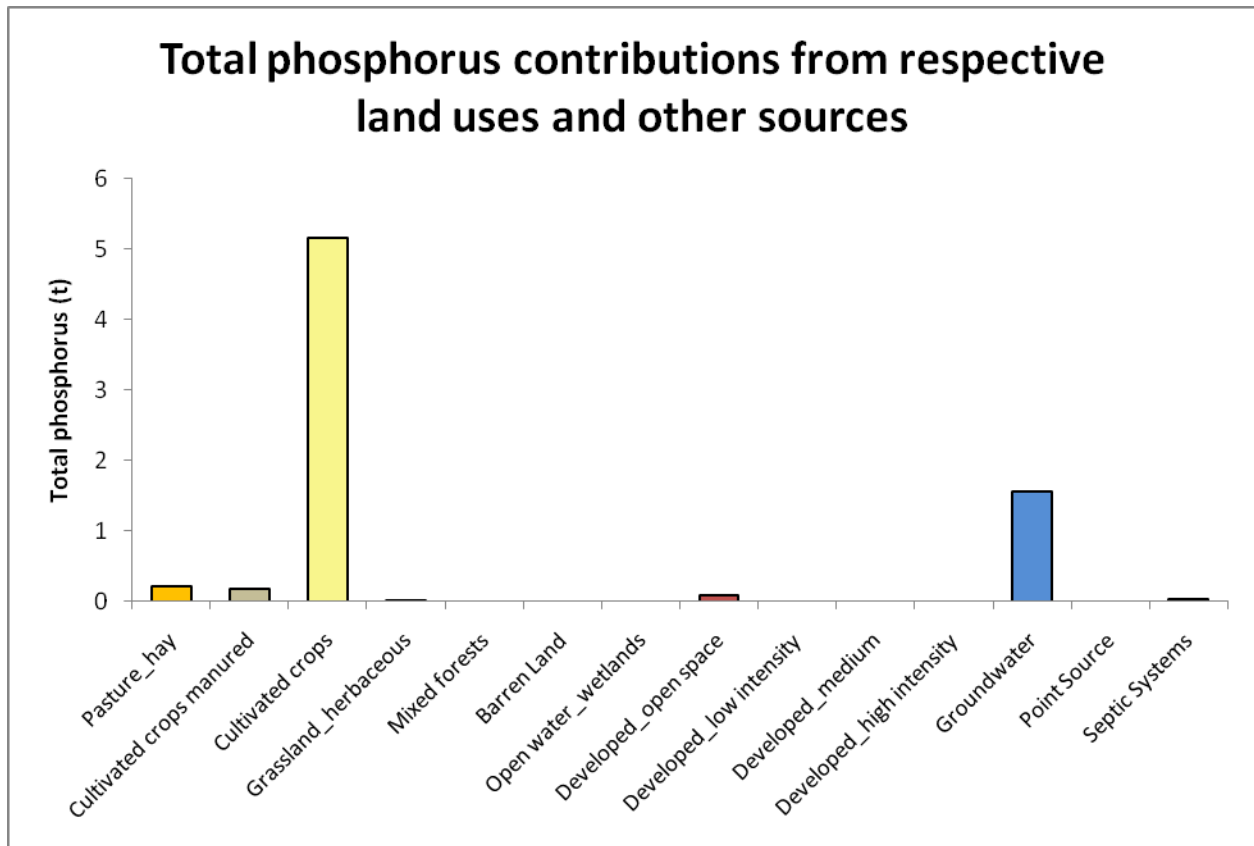
**Blanchard R - below
Potato Cr to above Eagle Cr
HUC 020**

	Area (ha)	Runoff (cm)	Erosion (t/ha)	Dis. P (t)	Tot. P (t)
Pasture_hay	759	4.54	0.066	0.3585	0.3642
Cultivated crops manured	1280	11.42	3.8797	1.434	1.9968
Cultivated crops	25467	11.42	3.8797	7.5618	18.7605
Grassland_herbaceous	657	3.11	0.066	0.0307	0.0356
Mixed forests	1876	2.14	0	0.003	0.003
Barren Land	5	4.99	0	0	0
Open water_wetlands	506	8.23	0	0	0
Developed_open space	2487	12.82	0	0	0.3152
Developed_low intensity	1054	4.99	0	0	0.0552
Developed_medium	284	9.15	0	0	0.0575
Developed_high intensity	135	50.19	0	0	0.0401
Groundwater				4.9503	4.9503
Point Source				0.3782	0.3782
Septic Systems				1.2308	1.2308
TOTAL	34510			15.9473	28.1874



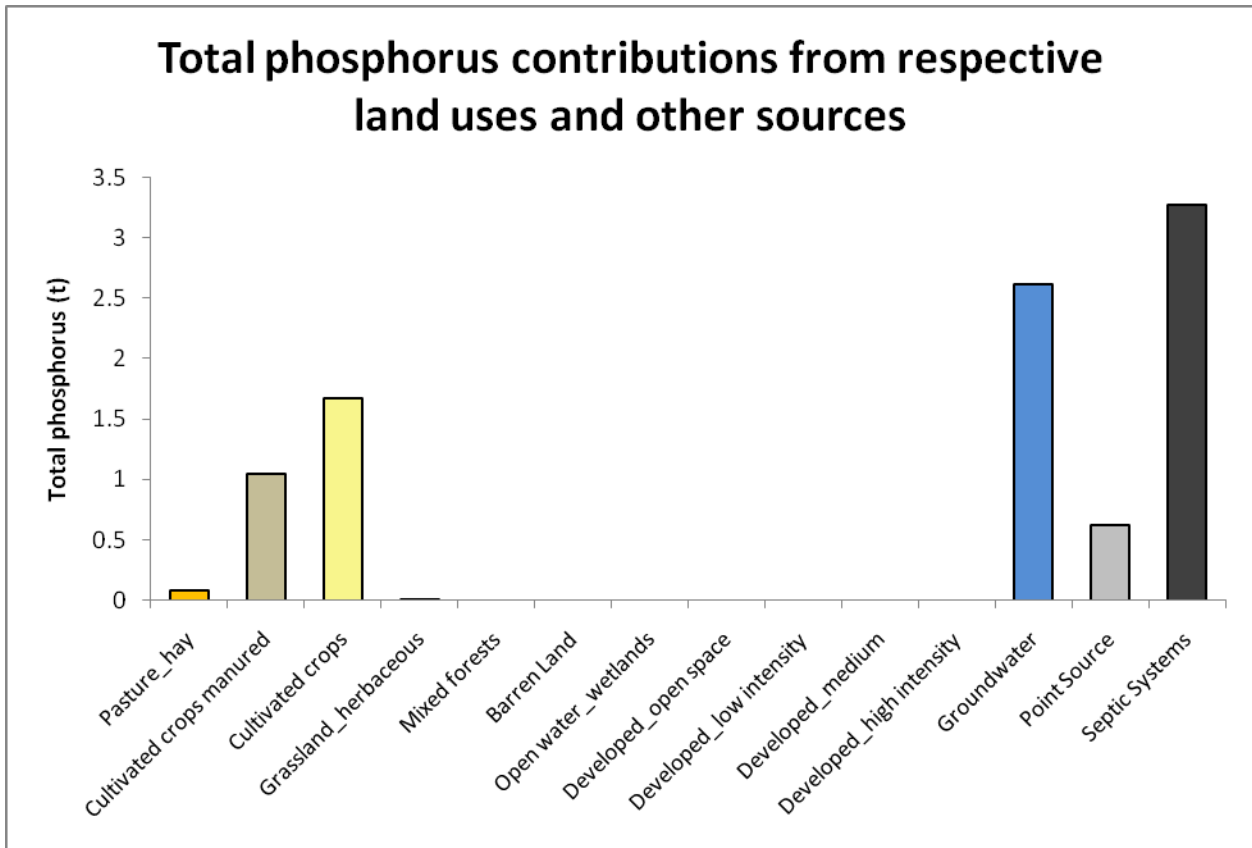
the Outlet sub-watershed only
HUC 020 - 020 & 030

	Area (ha)	Runoff (cm)	Erosion (t/ha)	Dis. P (t)	Tot. P (t)
Pasture_hay	457	4.54	0.066	0.2159	0.2193
Cultivated crops manured	135	8.23	3.8797	0.1112	0.1706
Cultivated crops	7875	8.23	3.8797	1.6846	5.1475
Grassland_herbaceous	144	3.11	0.066	0.0067	0.0078
Mixed forests	550	2.14	0	0.0009	0.0009
Barren Land	0	4.99	0	0	0
Open water_wetlands	39	8.23	0	0	0
Developed_open space	620	12.82	0	0	0.0786
Developed_low intensity	60	4.99	0	0	0.0031
Developed_medium	6	9.15	0	0	0.0012
Developed_high intensity	3	50.19	0	0	0.0009
Groundwater				1.5522	1.5522
Point Source				0	0
Septic Systems				0.028	0.028
TOTAL	9889			3.5994	7.21



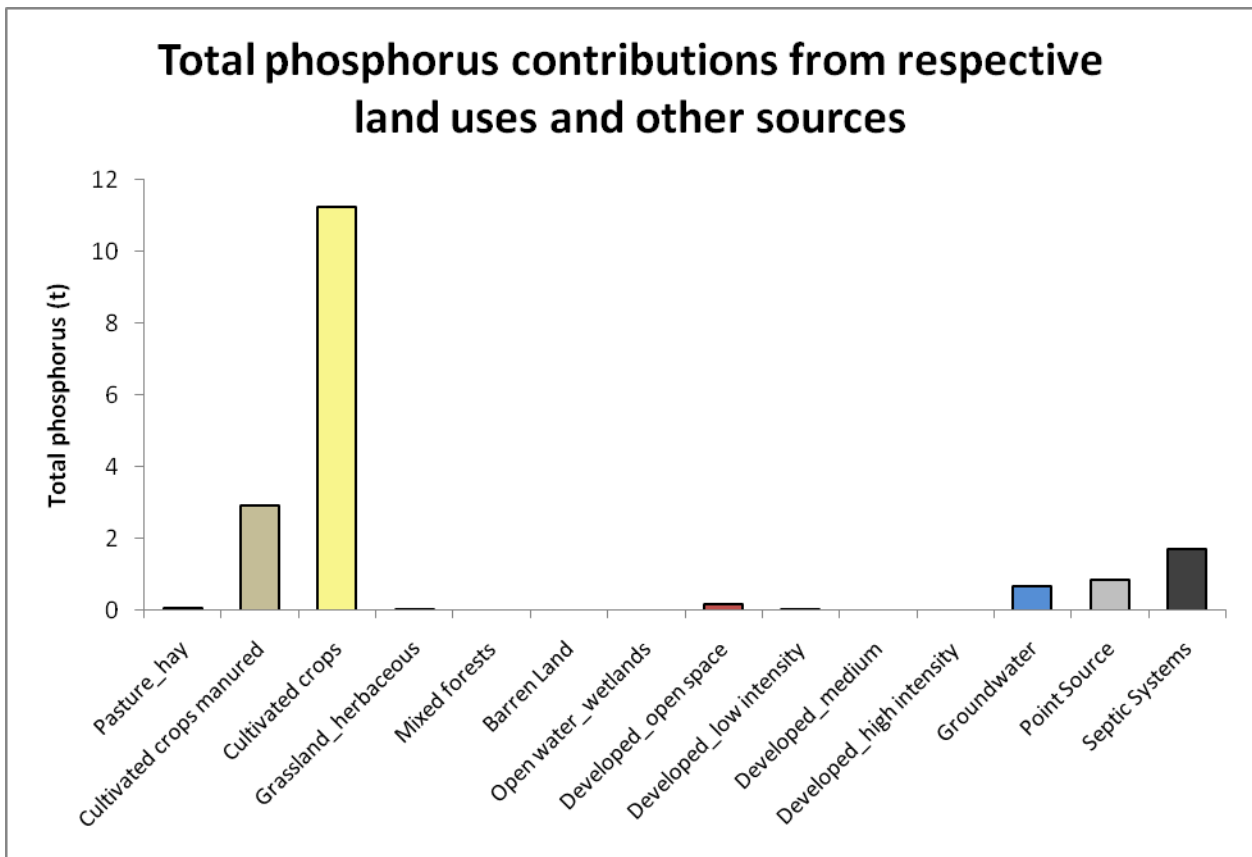
**Eagle Creek
HUC 030**

	Area (ha)	Runoff (cm)	Erosion (t/ha)	Dis. P (t)	Tot. P (t)
Pasture_hay	174	4.68	0.0576	0.0853	0.0867
Cultivated crops manured	1629	6.22	3.3107	1.0424	1.7994
Cultivated crops	10311	6.22	3.3107	1.6677	6.4591
Grassland_herbaceous	286	2.94	0.0576	0.0126	0.0149
Mixed forests	1288	2.03	0	0.002	0.002
Barren Land	1	5.14	0	0	0
Open water_wetlands	187	21.56	0	0	0
Developed_open space	1278	21.56	0	0	0.2312
Developed_low intensity	599	5.14	0	0	0.0316
Developed_medium	93	10.41	0	0	0.0206
Developed_high intensity	32	50.28	0	0	0.0095
Groundwater				2.6152	2.6152
Point Source				0.618	0.618
Septic Systems				3.2758	3.2758
TOTAL	15878			9.3189	15.164



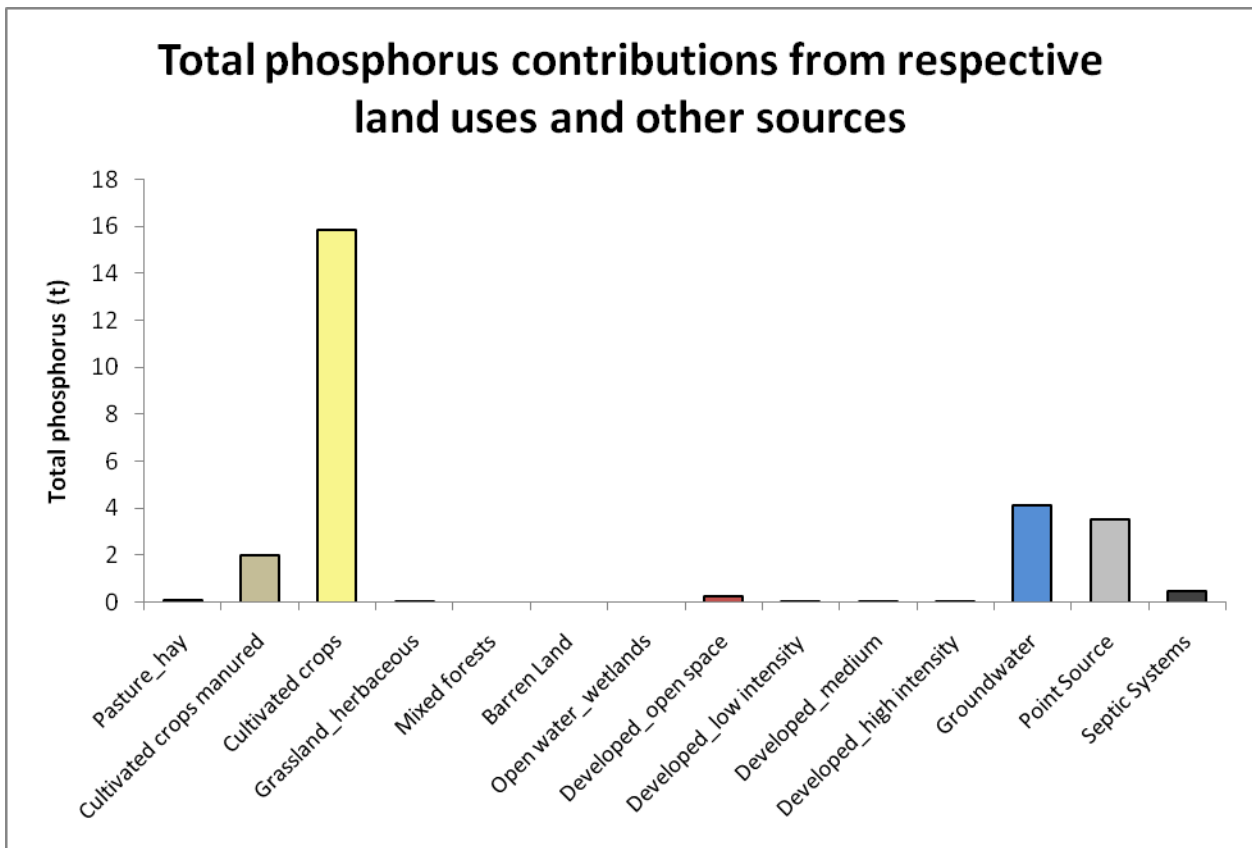
**Ottawa Creek
HUC 040**

	Area (ha)	Runoff (cm)	Erosion (t/ha)	Dis. P (t)	Tot. P (t)
Pasture_hay	88.6	6.45	0.0882	0.058	0.0591
Cultivated crops manured	1835	8.71	5.0881	1.5979	2.9084
Cultivated crops	11936	8.71	5.0881	2.7022	11.2264
Grassland_herbaceous	297.5	4.72	0.0882	0.0211	0.0248
Mixed forests	1183.3	2.59	0	0.0023	0.0023
Barren Land					
Open water_wetlands	38.2	87.41	0	0	0
Developed_open space	1005.1	16.59	0	0	0.1515
Developed_low intensity	216.6	7.25	0	0	0.0148
Developed_medium	19.4	11.47	0	0	0.0046
Developed_high intensity	2.3	50.26	0	0	0.0007
Groundwater				0.6771	0.6771
Point Source				0.8581	0.8581
Septic Systems				1.7029	1.7029
TOTAL	16622.02			7.6196	17.6307



**Riley Creek
HUC 050**

	Area (ha)	Runoff (cm)	Erosion (t/ha)	Dis. P (t)	Tot. P (t)
Pasture_hay	131	7.85	0.0954	0.1052	0.107
Cultivated crops manured	1272	7.85	5.5102	1.0261	2.0099
Cultivated crops	16194	7.85	5.5102	3.3042	15.8288
Grassland_herbaceous	463	5.25	0.0954	0.0365	0.0427
Mixed forests	1470	3.84	0	0.0042	0.0042
Barren Land	8	7.85	0	0	0
Open water_wetlands	153	31.02	0	0	0
Developed_open space	1722	17.62	0	0	0.2515
Developed_low intensity	525	7.85	0	0	0.0353
Developed_medium	173	13.19	0	0	0.0419
Developed_high intensity	56	57.96	0	0	0.0173
Groundwater				4.0998	4.0998
Point Source				3.515	3.515
Septic Systems				0.4785	0.4785
TOTAL	22167			12.5695	26.4318



Total Phosphorus yield by area.

	Tot. P (t)	Area (ha)	Total P (tonnes/ha)	Total P (kg/ha)	Total P (lbs/acre)
the Outlet	0.1706	9889	1.7251E-05	0.017	0.015
HUC 020	1.9968	34510	5.7861E-05	0.058	0.052
Eagle Cr	1.7994	15878	0.00011333	0.113	0.101
Ottawa R.	2.9084	16623	0.00017496	0.175	0.156
Headwaters	12.8241	36429	0.00035203	0.352	0.314
Riley Cr.	0.107	22167	4.827E-06	0.005	0.004