

**STUDY AREA STATISTICS**

Estimates based on GIS data and assumptions from literature review.

**STANDARD - NO BMPS**

		Study Area Land Use Indicators							Riparian Indicators			
Study Area	Scenario	Acres	% Sewer	Percent High Intensity Land Use	% Impervious	% Forest	% Wetland	% Forest & wetland	RIP % HILU	RIP% Impervious	RIP % Forest	RIP % Wetland
Abbott Run Brook Watershed	Current Land Use	5765	17%	23%	17%	32%	4%	36%	14%	10%	44%	9%
Diamond Hill Reservoir Watershed	Current Land Use	5590	0%	13%	4%	55%	5%	61%	15%	3%	58%	13%
Happy Hollow Reservoir Watershed	Current Land Use	775	34%	32%	31%	16%	1%	18%	23%	20%	42%	4%
Arnold Mills Reservoir Watershed	Current Land Use	5777	3%	7%	7%	51%	9%	60%	6%	5%	54%	21%
Sneech Pond Watershed	Current Land Use	540	3%	8%	7%	44%	10%	54%	2%	2%	57%	22%
Pawtucket WHPA	Current Land Use	731	65%	55%	31%	15%	8%	23%	24%	14%	37%	22%
Cumberland Abbott Run WHPA	Current Land Use	35	21%	7%	17%	19%	8%	27%	2%	5%	32%	25%
Cumberland Manville WHPA	Current Land Use	473	94%	53%	34%	27%	6%	33%	14%	10%	65%	11%
Lincoln Lonsdale WHPA	Current Land Use	487	71%	47%	22%	21%	2%	24%	35%	18%	34%	6%

**STUDY AREA STATISTICS** Note: Nutrient loading estimates are potential inputs at the source & represent amounts entering runoff or groundwater recharge.

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Study Area	Estimated Nutrient Loading						Estimated Nitrate-N sources to grw recharge					
	RIP % Forest and Wetland	NO3N in GW Recharge mg/l	NO3N to GW recharge lbs/ac/yr	N SW runoff lbs/ac/yr	Total N to study area lbs/ac/yr	% N in SW runoff from Atm.	P to SW lbs/ac/yr	Septic Systems	Lawn Fert.	Agri. Fert	Pet Waste	Other
Abbott Run Brook Watershed	54%	3.3	13.3	3.9	17.2	2.8%	0.9	57%	11%	24%	4%	4%
Diamond Hill Reservoir Watershed	72%	2.7	10.7	6.0	16.7	9.6%	0.7	19%	4%	69%	1%	7%
Happy Hollow Reservoir Watershed	46%	3.9	11.5	4.3	15.8	12.9%	1.1	73%	19%	1%	4%	3%
Arnold Mills Reservoir Watershed	74%	1.5	6.6	3.1	9.7	14.9%	0.5	55%	12%	18%	3%	11%
Sneech Pond Watershed	79%	1.8	5.9	3.6	9.5	37.4%	0.5	60%	10%	16%	3%	11%
Pawtucket WHPA	59%	3.6	8.1	5.7	13.8	13.7%	1.5	71%	21%	0%	4%	4%
Cumberland Abbott Run WHPA	57%	3.7	16.1	3.5	19.6	0.0%	1.0	79%	13%	0%	5%	3%
Cumberland Manville WHPA	76%	1.3	3.2	6.4	9.6	2.1%	1.8	30%	56%	0%	2%	12%
Lincoln Lonsdale WHPA	40%	2.7	8.5	6.3	14.8	4.2%	1.3	6%	15%	73%	0%	6%

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Study Area	SOILS hydrologic groups				SWAP							# ISDS	ISDS /Acre
	% A	% B	% C	% D	%SHWT <1.5-3.5'	%SHWT 1.5'-3.5'	%Restr.C, .2"/hr	%Erode	HILU on A soil	HILU on HWT <3.5'			
Abbott Run Brook Watershed	47%	32%	18%	3%	7.0%	1%	17%	28%	6%	1%	2,886	0.50	
Diamond Hill Reservoir Watershed	1%	45%	46%	8%	39.7%	26%	38%	33%	0%	7%	742	0.13	
Happy Hollow Reservoir Watershed	93%	0%	0%	7%	3.5%	0%	0%	11%	15%	0%	429	0.55	
Arnold Mills Reservoir Watershed	12%	67%	16%	5%	13.8%	3%	10%	62%	2%	0%	1,389	0.24	
Sneech Pond Watershed	0%	81%	15%	4%	14.7%	4%	6%	66%	0%	2%	128	0.24	
Pawtucket WHPA	51%	32%	8%	10%	11.2%	0%	11%	49%	25%	1%	278	0.38	
Cumberland Abbott Run WHPA	47%	53%	0%	0%	14.9%	15%	0%	99%	5%	0%	29	0.84	
Cumberland Manville WHPA	19%	54%	27%	0%	21.9%	14%	22%	56%	10%	7%	29	0.06	
Lincoln Lonsdale WHPA	38%	53%	8%	1%	14.3%	10%	5%	47%	27%	6%	16	0.03	

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**Estimated Water Budget / Runoff / Recharge**

<b>Study Area</b>	Precip Inches	ET Inches	Avail. Precip Inches	SW runoff Inches	Net recharge Precip. Inches	ISDS recharge Inches	SW runoff % avail.	GW recharge % avail	Precip Mgal/yr	ET Mgal/yr	Avail. Precip Mgal/yr
Abbott Run Brook Watershed	44	18	26	8.9	17.1	0.8	34%	66%	6888	2818	4070
Diamond Hill Reservoir Watershed	44	18	26	8.6	17.4	0.2	33%	67%	6679	2732	3946
Happy Hollow Reservoir Watershed	44	18	26	14.0	12.0	0.9	54%	46%	926	379	547
Arnold Mills Reservoir Watershed	44	18	26	7.2	18.8	0.4	28%	72%	6902	2824	4079
Sneech Pond Watershed	44	18	26	11.6	14.4	0.4	45%	55%	645	264	381
Pawtucket WHPA	44	18	26	16.5	9.5	0.6	64%	36%	874	358	516
Cumberland Abbott Run WHPA	44	18	26	8.0	18.0	1.4	31%	69%	42	17	25
Cumberland Manville WHPA	44	18	26	15.6	10.4	0.1	60%	40%	566	231	334
Lincoln Lonsdale WHPA	44	18	26	11.9	14.1	0.1	46%	54%	582	238	344

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Study Area	surface runoff Mgal/yr	Avg.net recharge precip. Mgal/yr	ISDS recharge Mgal/yr	If 100% forested surface runoff Mgal/yr	Lost recharge from 100% forested Mgal/yr
Abbott Run Brook Watershed	1,389	2,680	126	266	1,123
Diamond Hill Reservoir Watershed	1,301	2,646	32	819	482
Happy Hollow Reservoir Watershed	294	253	19	65	230
Arnold Mills Reservoir Watershed	1,133	2,946	61	647	486
Sneech Pond Watershed	171	210	6	130	41
Pawtucket WHPA	328	188	12	101	227
Cumberland Abbott Run WHPA	8	17	1	1	7
Cumberland Manville WHPA	200	134	1	30	170
Lincoln Lonsdale WHPA	158	186	1	33	125