

Table A-2 - Ground Water Recharge in the Lower Raritan Watershed Management Area

WMA 9 (HUC14)	HUC14 Area (acres)	Recharge Area (Acres)	Avg. Recharge 1986 (inches)	Avg. Recharge 1995 (inches)	Net Change Between 1986 - 1995 (inches)	Percent Change Between 1986-1995 (inches)	Avg. Recharge 1986 (Million gallons/yr)	Avg. Recharge 1995 (Million gallons/yr)	Net Change Between 1986 - 1995 (Million gallons/yr)	Percent Change Between 1986 - 1995 (Million gallons/yr)	Avg. Recharge 1995 (Million gallons/yr/acre)	Avg. Recharge 1995 (Million gallons/day/acre) in Recharge Area	Avg. Recharge 1995 (Million gallons/day/square mile) in Recharge Area
Lower Raritan River - Millstone to Confluence (02030105080)													
010	6,358.48	5,732.73	8.2	7.4	-0.73	-8.92%	1,271.2	1,157.7	-113.41	-8.92%	0.20	0.0006	0.35
020	4,501.34	3,755.74	7.5	7.2	-0.31	-4.13%	763.5	732.0	-31.57	-4.13%	0.19	0.0005	0.34
030	4,921.97	3,860.70	7.6	7.4	-0.24	-3.20%	800.0	774.4	-25.59	-3.20%	0.20	0.0005	0.35
Lower Raritan River - Lawrence to Millstone (02030105120)													
010	3,990.21	3,851.27	9.7	9.4	-0.32	-3.33%	1,017.5	983.6	-33.86	-3.33%	0.26	0.0007	0.45
020	1,626.46	1,586.67	6.9	6.8	-0.09	-1.36%	295.7	291.6	-4.02	-1.36%	0.18	0.0005	0.32
030	5,181.85	4,810.41	9.5	9.3	-0.25	-2.59%	1,242.5	1,210.4	-32.13	-2.59%	0.25	0.0007	0.44
040	4,453.33	3,676.50	6.1	5.9	-0.19	-3.14%	609.4	590.3	-19.12	-3.14%	0.16	0.0004	0.28
050	6,131.17	4,713.81	10.6	10.1	-0.52	-4.85%	1,362.3	1,296.3	-66.08	-4.85%	0.27	0.0008	0.48
060	4,187.90	3,184.57	10.3	9.9	-0.41	-4.02%	891.3	855.4	-35.81	-4.02%	0.27	0.0007	0.47
070	1,873.17	1,449.76	6.5	6.3	-0.18	-2.75%	255.1	248.0	-7.02	-2.75%	0.17	0.0005	0.30
080	6,163.53	4,474.65	4.5	4.3	-0.25	-5.51%	546.6	516.5	-30.14	-5.51%	0.12	0.0003	0.20
090	4,583.88	4,321.61	6.1	6.1	0.06	0.98%	712.0	718.9	6.96	0.98%	0.17	0.0005	0.29
100	4,796.94	3,836.41	5.8	5.8	0.06	0.97%	599.8	605.6	5.82	0.97%	0.16	0.0004	0.28
110	3,287.95	2,801.56	4.8	4.9	0.16	3.45%	362.2	374.7	12.50	3.45%	0.13	0.0004	0.23
120	5,798.59	4,640.03	5.7	5.7	-0.05	-0.82%	724.4	718.5	-5.97	-0.82%	0.15	0.0004	0.27
130	1,898.29	1,553.98	6.6	6.5	-0.05	-0.80%	276.7	274.5	-2.21	-0.80%	0.18	0.0005	0.31
140	5,801.03	4,045.82	6.8	6.1	-0.64	-9.46%	743.0	672.7	-70.31	-9.46%	0.17	0.0005	0.29
150	3,632.88	3,494.69	4.1	4.2	0.07	1.70%	393.5	400.2	6.69	1.70%	0.11	0.0003	0.20
160	6,868.54	5,468.03	8.4	7.8	-0.62	-7.33%	1,246.7	1,155.3	-91.38	-7.33%	0.21	0.0006	0.37
170	6,100.85	5,303.32	5.6	5.5	-0.12	-2.18%	810.5	792.8	-17.70	-2.18%	0.15	0.0004	0.26
Lawrence Brook (02030105130)													
010	4,696.65	3,188.71	6.0	4.9	-1.06	-17.73%	518.7	426.8	-91.96	-17.73%	0.13	0.0004	0.23
020	3,184.94	2,207.70	6.8	5.9	-0.92	-13.52%	406.5	351.5	-54.96	-13.52%	0.16	0.0004	0.28
030	3,225.40	2,557.21	5.4	4.8	-0.57	-10.57%	375.4	335.7	-39.70	-10.57%	0.13	0.0004	0.23
040	4,177.00	3,591.27	7.9	7.4	-0.51	-6.40%	770.7	721.4	-49.32	-6.40%	0.20	0.0006	0.35
050	3,463.79	2,529.98	6.4	5.9	-0.57	-8.92%	441.7	402.3	-39.39	-8.92%	0.16	0.0004	0.28
060	4,854.72	4,013.39	7.5	7.2	-0.33	-4.38%	815.8	780.1	-35.70	-4.38%	0.19	0.0005	0.34
070	5,968.58	5,462.53	5.1	4.9	-0.21	-4.11%	754.8	723.8	-31.03	-4.11%	0.13	0.0004	0.23
Manalapan Brook (02030105140)													
010	9,294.06	7,293.31	10.2	9.6	-0.60	-5.86%	2,026.8	1,908.1	-118.71	-5.86%	0.26	0.0007	0.46
020	7,959.55	4,121.47	8.5	8.4	-0.15	-1.72%	951.3	934.9	-16.36	-1.72%	0.23	0.0006	0.40
030	10,856.41	9,145.72	9.1	8.5	-0.66	-7.18%	2,265.8	2,103.0	-162.77	-7.18%	0.23	0.0006	0.40
Matchaponix Brook (02030105150)													
010	4,783.10	3,819.40	8.1	7.5	-0.57	-7.06%	840.2	780.8	-59.35	-7.06%	0.20	0.0006	0.36
020	5,864.67	4,748.38	8.7	8.2	-0.45	-5.22%	1,122.4	1,063.8	-58.63	-5.22%	0.22	0.0006	0.39
030	3,736.49	3,016.47	7.1	6.8	-0.28	-3.90%	583.9	561.1	-22.78	-3.90%	0.19	0.0005	0.33
040	3,795.62	2,942.55	7.7	7.0	-0.64	-8.34%	612.1	561.0	-51.07	-8.34%	0.19	0.0005	0.33
050	3,906.55	1,789.41	7.4	7.0	-0.39	-5.24%	360.7	341.8	-18.90	-5.24%	0.19	0.0005	0.33
060	6,235.87	3,599.37	7.5	7.2	-0.34	-4.46%	737.4	704.5	-32.89	-4.46%	0.20	0.0005	0.34
Lower Raritan River below Lawrence (02030105160)													
010	4,241.96	2,612.29	8.4	8.3	-0.04	-0.51%	593.1	590.1	-3.03	-0.51%	0.23	0.0006	0.40
020	3,762.39	2,049.33	7.5	6.9	-0.58	-7.74%	415.3	383.2	-32.16	-7.74%	0.19	0.0005	0.33
030	4,443.21	2,502.47	7.3	7.1	-0.16	-2.26%	495.7	484.5	-11.19	-2.26%	0.19	0.0005	0.34
040	2,421.13	1,587.12	6.7	6.2	-0.46	-6.90%	288.1	268.2	-19.87	-6.90%	0.17	0.0005	0.30
050	3,148.83	2,629.78	7.9	7.4	-0.43	-5.46%	562.7	531.9	-30.73	-5.46%	0.20	0.0006	0.35
060	3,509.99	2,623.78	6.4	5.7	-0.70	-11.07%	452.8	402.6	-50.13	-11.07%	0.15	0.0004	0.27
070	6,919.15	5,131.30	6.4	5.8	-0.57	-8.99%	886.9	807.2	-79.77	-8.99%	0.16	0.0004	0.28
080	4,100.73	3,783.89	4.8	4.7	-0.08	-1.68%	489.6	481.4	-8.24	-1.68%	0.13	0.0003	0.22
090	3,556.12	2,221.27	2.8	2.5	-0.30	-10.61%	170.6	152.5	-18.11	-10.61%	0.07	0.0002	0.12
100	10,775.20	7,083.30	4.8	4.6	-0.22	-4.52%	931.9	889.8	-42.13	-4.52%	0.13	0.0003	0.22

Source: Upper Raritan Watershed Association, August 2001