

Table A-1 - Ground Water Recharge in the Upper Raritan Watershed Management Area

WMA 8 HUC 14	HUC 14 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
South Branch Raritan River above Spruce Run (02030105010)													
010	5,935.66	5,171.98	12.7	11.2	-1.45	-11.46%	1,781.0	1,576.8	-204.2	-11.46%	0.30	0.0008	0.53
020	4,684.13	3,870.00	12.8	11.0	-1.78	-13.90%	1,345.7	1,158.7	-187.0	-13.90%	0.30	0.0008	0.52
030	3,218.06	2,335.52	12.1	11.1	-1.01	-8.36%	769.2	704.9	-64.3	-8.36%	0.30	0.0008	0.53
040	4,264.79	3,529.68	13.8	13.0	-0.70	-5.11%	1,318.0	1,250.6	-67.4	-5.11%	0.35	0.0010	0.62
050	9,766.24	7,907.73	14.1	13.3	-0.75	-5.35%	3,023.0	2,861.2	-161.9	-5.35%	0.36	0.0010	0.63
060	9,530.51	8,140.96	15.5	14.6	-0.87	-5.64%	3,422.3	3,229.5	-192.9	-5.64%	0.40	0.0011	0.70
070	5,050.33	4,915.42	16.8	15.5	-1.21	-7.21%	2,235.9	2,074.8	-161.2	-7.21%	0.42	0.0012	0.74
080	2,961.24	2,761.94	13.9	13.0	-0.95	-6.81%	1,043.1	972.1	-71.0	-6.81%	0.35	0.0010	0.62
South Branch Raritan River Three Bridges to Spruce Run (02030105020)													
010	7,867.83	6,984.05	16.7	16.2	-0.55	-3.28%	3,174.9	3,070.8	-104.0	-3.28%	0.44	0.0012	0.77
020	2,056.53	1,978.56	16.4	16.0	-0.38	-2.35%	879.2	858.5	-20.7	-2.35%	0.43	0.0012	0.76
030	9,413.41	8,337.42	12.1	11.3	-0.86	-7.14%	2,744.6	2,548.7	-195.8	-7.14%	0.31	0.0008	0.54
040	7,808.14	6,026.71	13.3	12.1	-1.20	-9.03%	2,169.8	1,973.7	-196.0	-9.03%	0.33	0.0009	0.57
050	4,437.97	4,231.17	11.5	10.7	-0.75	-6.55%	1,316.0	1,229.8	-86.3	-6.55%	0.29	0.0008	0.51
060	9,105.42	8,519.14	11.8	11.7	-0.15	-1.26%	2,734.9	2,700.4	-34.5	-1.26%	0.32	0.0009	0.56
070	5,262.95	4,535.18	12.2	11.5	-0.75	-6.18%	1,503.2	1,410.4	-92.8	-6.18%	0.31	0.0009	0.55
080	4,720.69	4,173.42	13.3	12.2	-1.03	-7.73%	1,503.0	1,386.8	-116.2	-7.73%	0.33	0.0009	0.58
090	7,218.25	4,558.69	13.9	12.9	-0.98	-7.07%	1,721.8	1,600.1	-121.8	-7.07%	0.35	0.0010	0.62
100	13,122.00	11,693.52	11.1	10.5	-0.53	-4.82%	3,513.0	3,343.6	-169.4	-4.82%	0.29	0.0008	0.50
Neshanic River (02030105030)													
010	3,303.59	2,923.72	10.7	10.2	-0.52	-4.87%	851.6	810.2	-41.4	-4.87%	0.28	0.0008	0.49
020	3,958.80	3,212.67	11.2	10.7	-0.54	-4.85%	979.8	932.4	-47.5	-4.85%	0.29	0.0008	0.51
030	3,610.30	3,259.05	10.7	10.5	-0.19	-1.81%	947.2	930.1	-17.2	-1.81%	0.29	0.0008	0.50
040	3,319.83	2,929.96	10.8	10.3	-0.52	-4.82%	860.3	818.9	-41.5	-4.82%	0.28	0.0008	0.49
050	7,474.10	6,826.87	11.0	10.8	-0.21	-1.95%	2,040.0	2,000.3	-39.7	-1.95%	0.29	0.0008	0.51
060	13,999.68	12,243.37	11.0	10.6	-0.38	-3.47%	3,644.5	3,518.2	-126.3	-3.47%	0.29	0.0008	0.50
South Branch Raritan River - North Branch to Three Bridges (02030105040)													
010	7,622.69	6,756.73	10.7	10.6	-0.15	-1.36%	1,967.4	1,940.7	-26.8	-1.36%	0.29	0.0008	0.50
020	6,919.04	6,469.06	11.3	11.1	-0.20	-1.74%	1,990.7	1,956.0	-34.7	-1.74%	0.30	0.0008	0.53
030	7,965.60	7,559.07	11.6	11.0	-0.59	-5.07%	2,383.9	2,263.1	-120.8	-5.07%	0.30	0.0008	0.52
040	4,267.84	3,548.89	10.8	10.4	-0.44	-4.10%	1,040.9	998.2	-42.7	-4.10%	0.28	0.0008	0.49
Lamington River (02030105050)													
010	4,014.03	3,423.30	11.2	8.3	-2.90	-25.81%	1,044.7	775.1	-269.7	-25.81%	0.23	0.0006	0.40
020	7,065.55	5,257.62	13.6	12.7	-0.92	-6.75%	1,937.5	1,806.8	-130.7	-6.75%	0.34	0.0009	0.60
030	3,843.04	3,145.33	13.5	13.0	-0.54	-3.96%	1,156.6	1,110.7	-45.8	-3.96%	0.35	0.0010	0.62
040	5,702.56	5,210.80	16.5	15.9	-0.61	-3.69%	2,328.7	2,242.8	-85.9	-3.69%	0.43	0.0012	0.75
050	3,147.93	3,091.06	14.7	14.3	-0.48	-3.26%	1,237.8	1,197.5	-40.3	-3.26%	0.39	0.0011	0.68
060	3,988.01	3,859.31	15.4	14.8	-0.62	-4.05%	1,613.0	1,547.6	-65.3	-4.05%	0.40	0.0011	0.70
070	8,948.04	8,337.29	14.3	13.5	-0.85	-5.95%	3,246.9	3,053.7	-193.2	-5.95%	0.37	0.0010	0.64
080	10,840.33	10,293.55	14.9	14.3	-0.65	-4.34%	4,174.9	3,993.6	-181.3	-4.34%	0.39	0.0011	0.68
090	3,262.54	3,110.42	12.7	11.8	-0.83	-6.54%	1,070.3	1,000.4	-69.9	-6.54%	0.32	0.0009	0.56
100	7,910.01	7,529.04	11.8	11.0	-0.83	-7.06%	2,414.3	2,244.0	-170.4	-7.06%	0.30	0.0008	0.52
110	4,833.29	4,212.75	11.7	11.2	-0.57	-4.87%	1,342.4	1,277.0	-65.4	-4.87%	0.30	0.0008	0.53
North Branch Raritan River above Lamington (02030105060)													
010	4,281.10	3,762.57	13.3	12.4	-0.90	-6.76%	1,355.7	1,264.09	-91.6	-6.76%	0.34	0.0009	0.59
020	4,253.69	3,992.78	15.9	14.5	-1.36	-8.57%	1,723.4	1,575.65	-147.7	-8.57%	0.39	0.0011	0.69
030	4,896.79	4,557.61	14.2	13.5	-0.74	-5.19%	1,759.5	1,668.11	-91.4	-5.19%	0.37	0.0010	0.64
040	4,804.67	4,560.98	14.4	13.8	-0.60	-4.13%	1,787.3	1,713.43	-73.9	-4.13%	0.38	0.0010	0.66
050	4,228.28	4,007.82	15.8	14.7	-1.11	-7.02%	1,720.5	1,599.74	-120.7	-7.02%	0.40	0.0011	0.70
060	3,247.97	3,210.87	13.5	13.0	-0.48	-3.54%	1,174.7	1,133.09	-41.6	-3.54%	0.35	0.0010	0.62
070	5,379.51	5,170.70	12.6	12.0	-0.55	-4.40%	1,762.5	1,685.00	-77.5	-4.40%	0.33	0.0009	0.57
080	4,279.21	4,171.23	12.8	12.4	-0.37	-2.88%	1,445.9	1,404.27	-41.7	-2.88%	0.34	0.0009	0.59
090	5,562.20	5,006.33	10.8	10.1	-0.73	-6.76%	1,469.5	1,370.26	-99.3	-6.76%	0.27	0.0007	0.48
North Branch Raritan River - South Branch to Lamington (02030105070)													
010	5,967.20	5,249.05	10.7	10.1	-0.53	-5.02%	1,519.7	1,443.44	-76.3	-5.02%	0.27	0.0008	0.48
020	6,582.77	6,136.28	10.5	9.8	-0.76	-7.25%	1,755.0	1,627.77	-127.2	-7.25%	0.27	0.0007	0.47
030	3,801.54	3,252.55	9.9	8.8	-1.06	-10.68%	873.4	780.09	-93.3	-10.68%	0.24	0.0007	0.42

Source: Upper Raritan Watershed Association, August 2001