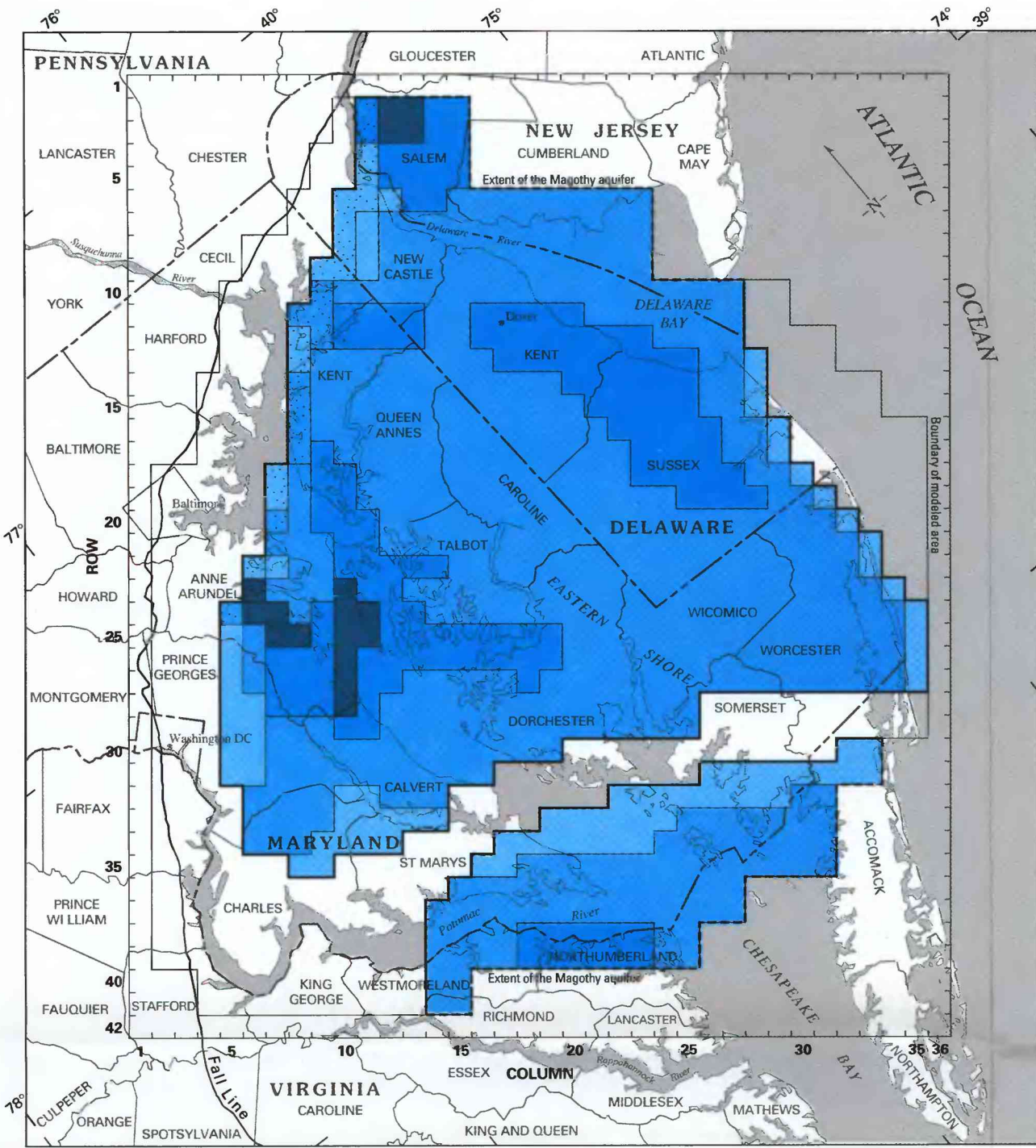
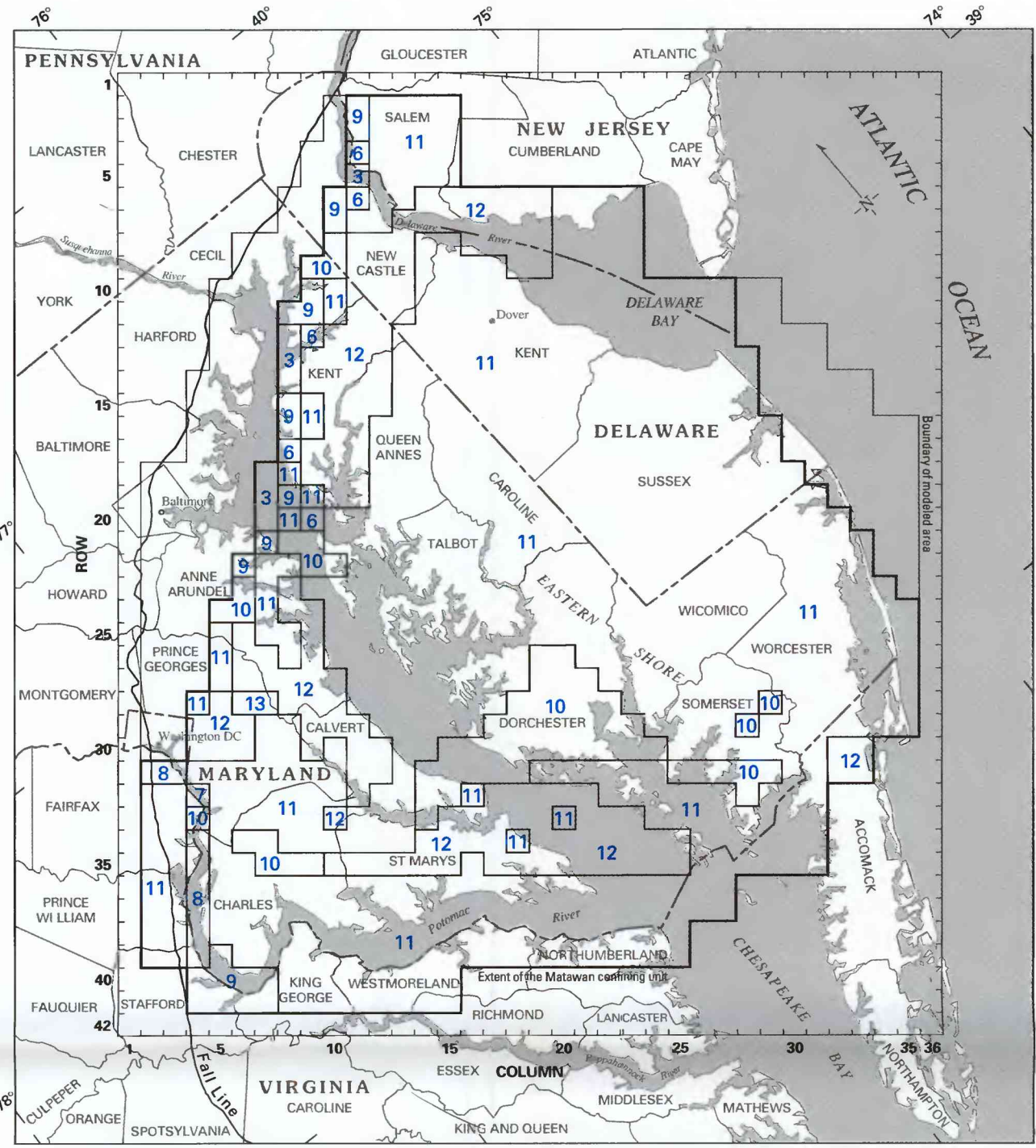
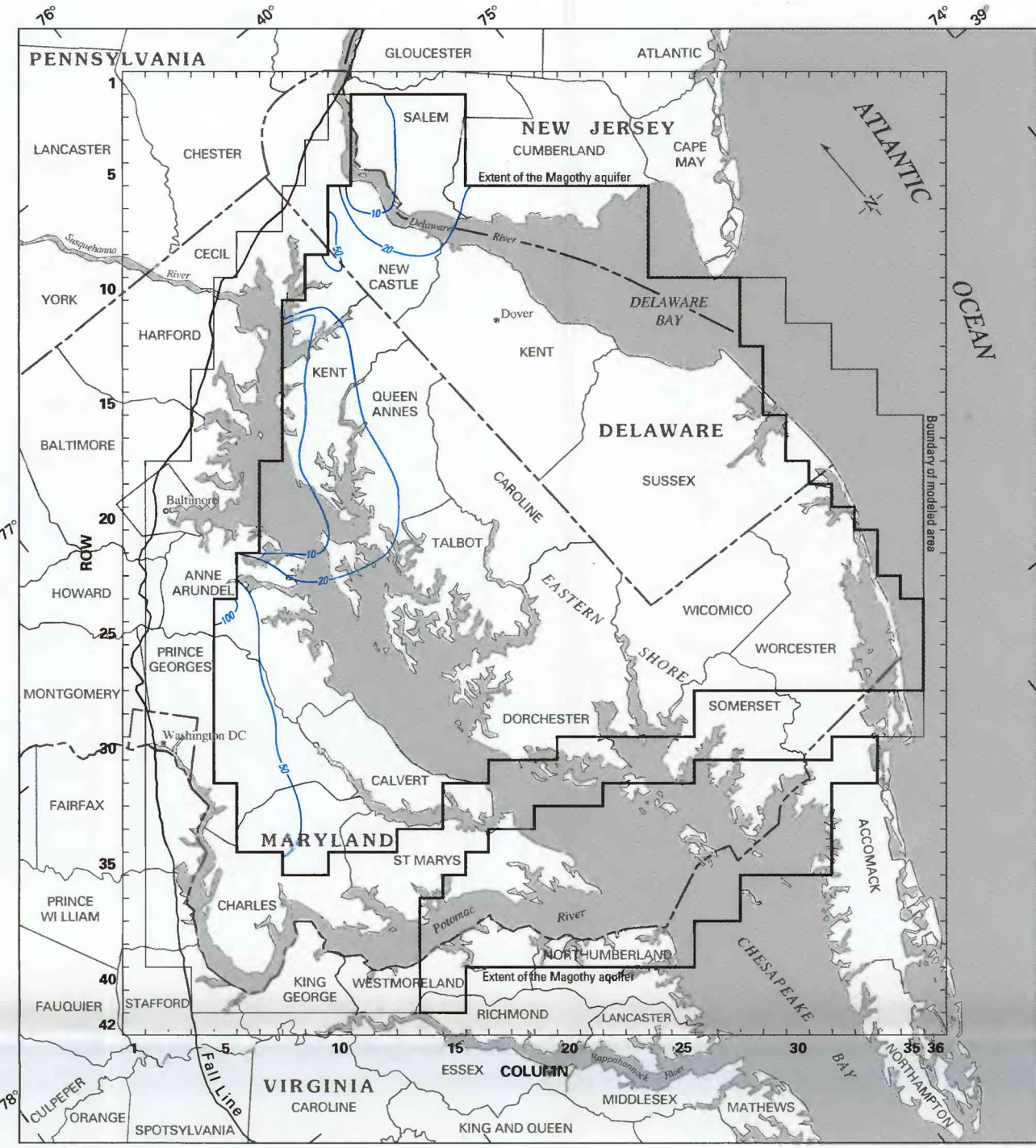




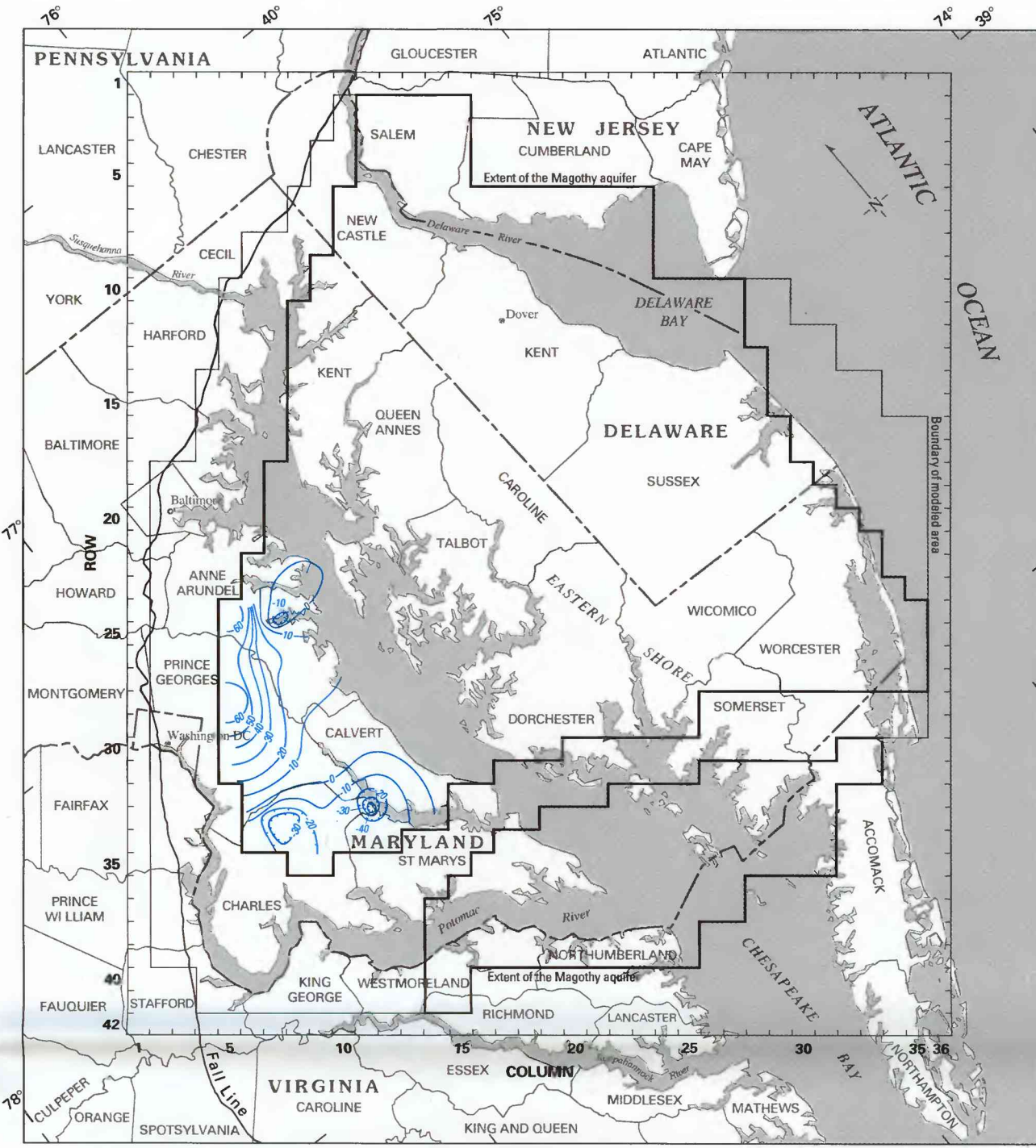
A. Transmissivity, boundary conditions, and extent of the Magothly aquifer as used in model



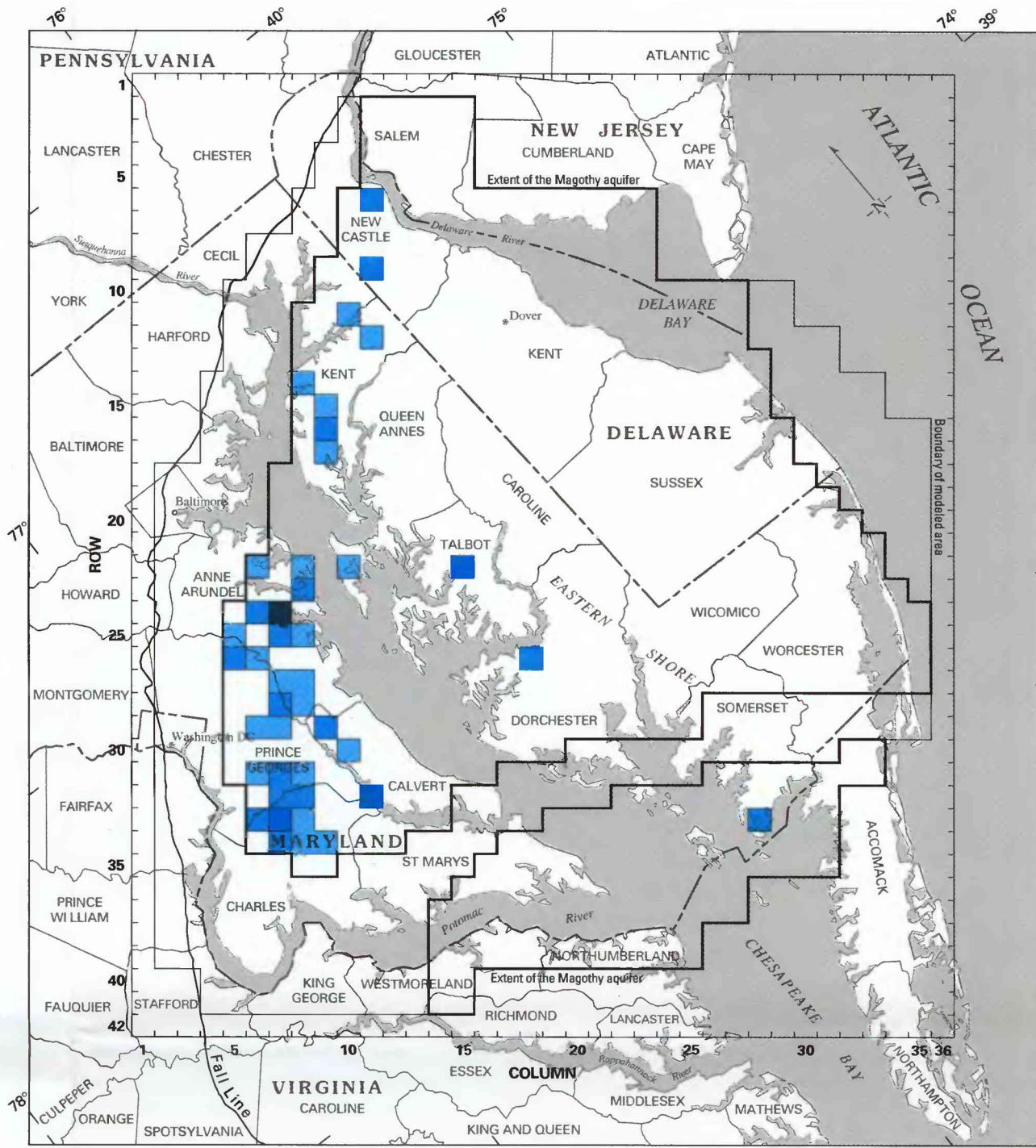
B. Leakage values of the Matawan confining unit used in model



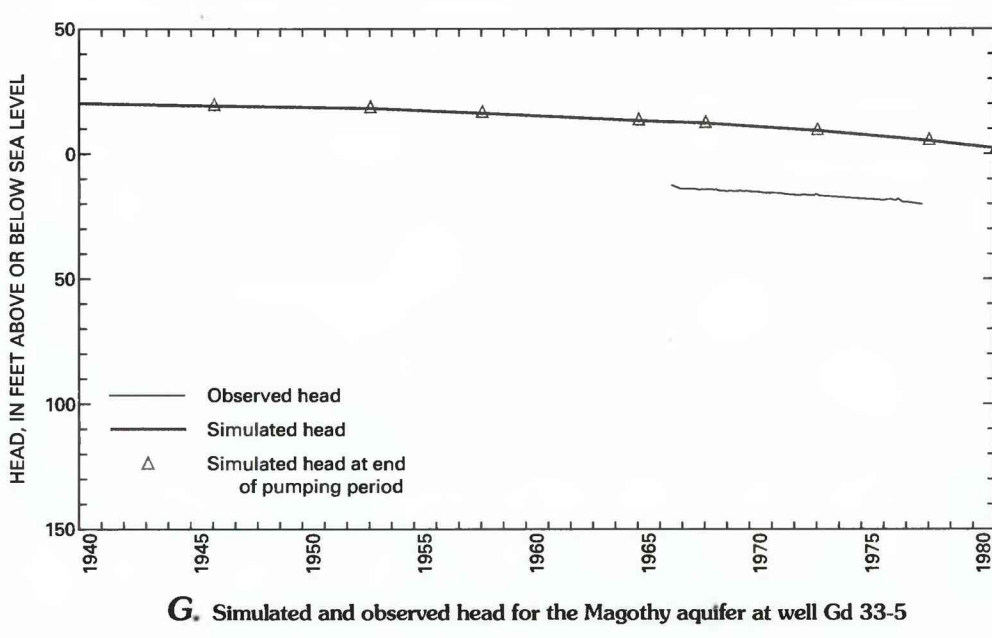
C. Simulated heads of the Magothly aquifer for prepping conditions



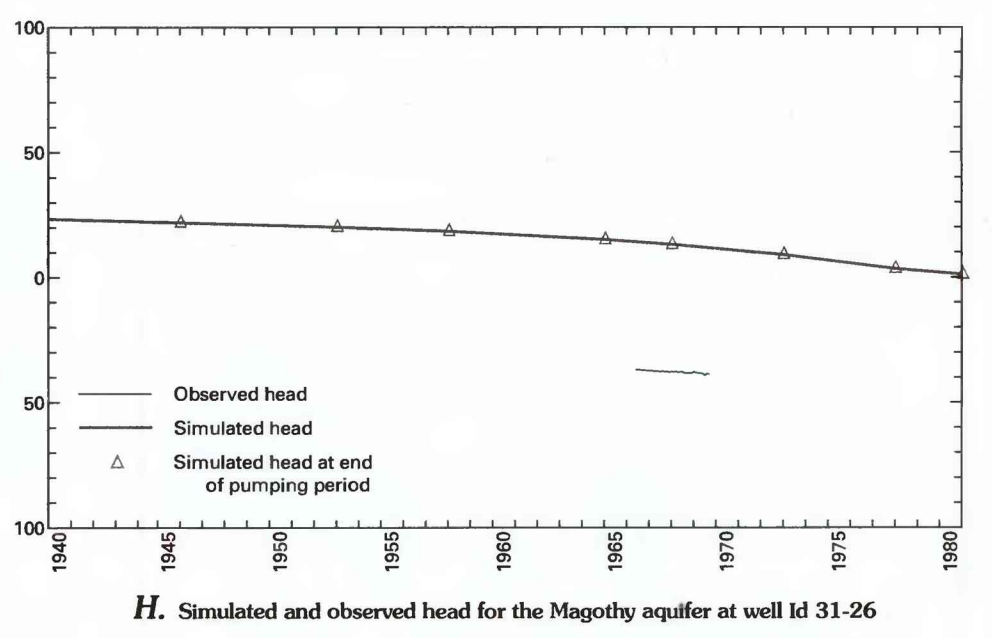
D. Observed heads of the Magothly aquifer for 1980



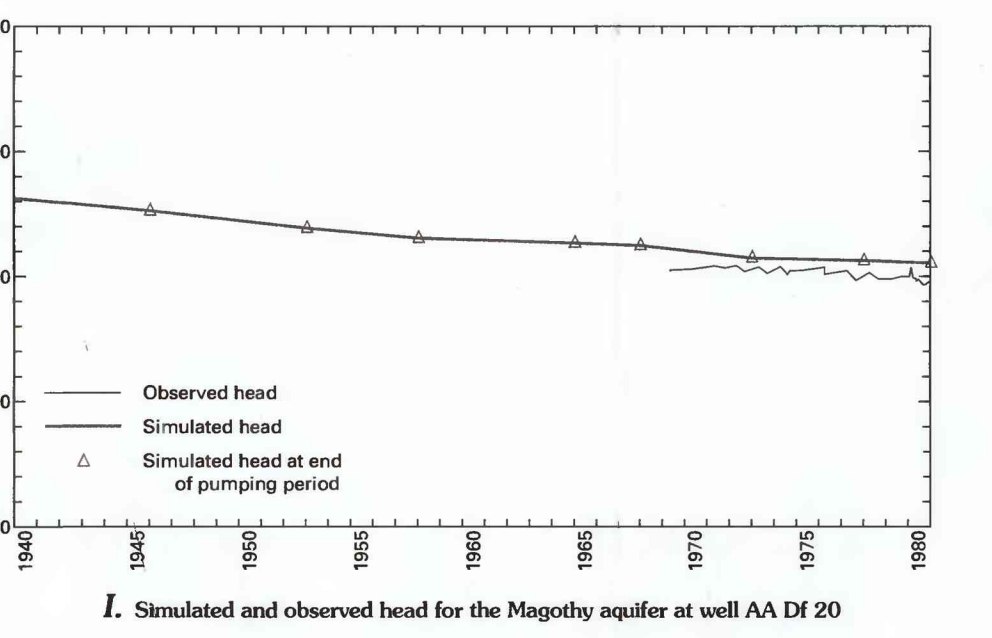
E. Location and magnitude of pumpage (1978-80) for the Magothly aquifer as used in model



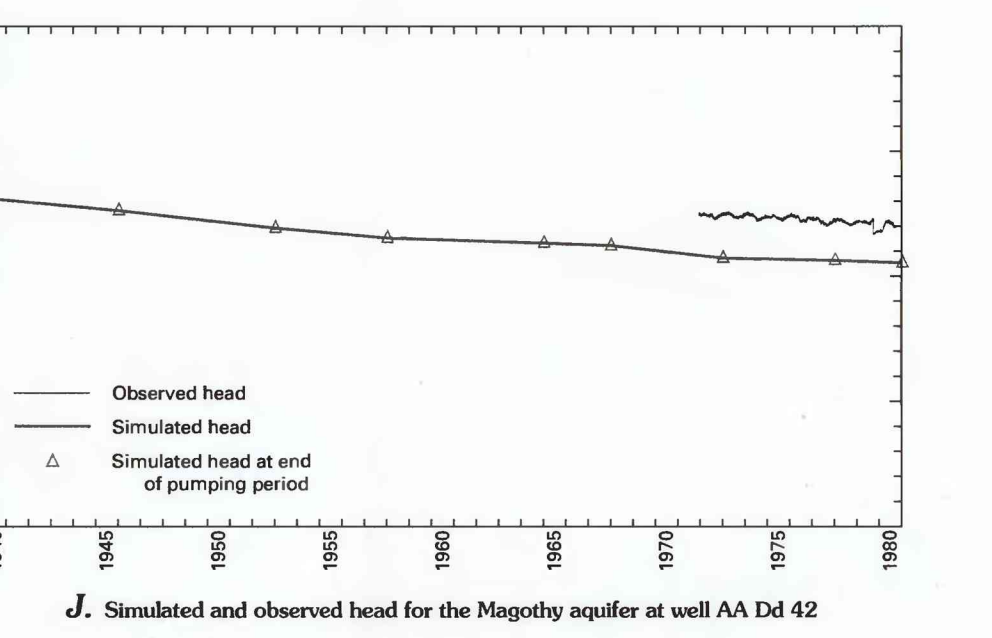
G. Simulated and observed head for the Magothly aquifer at well Gd 33-5



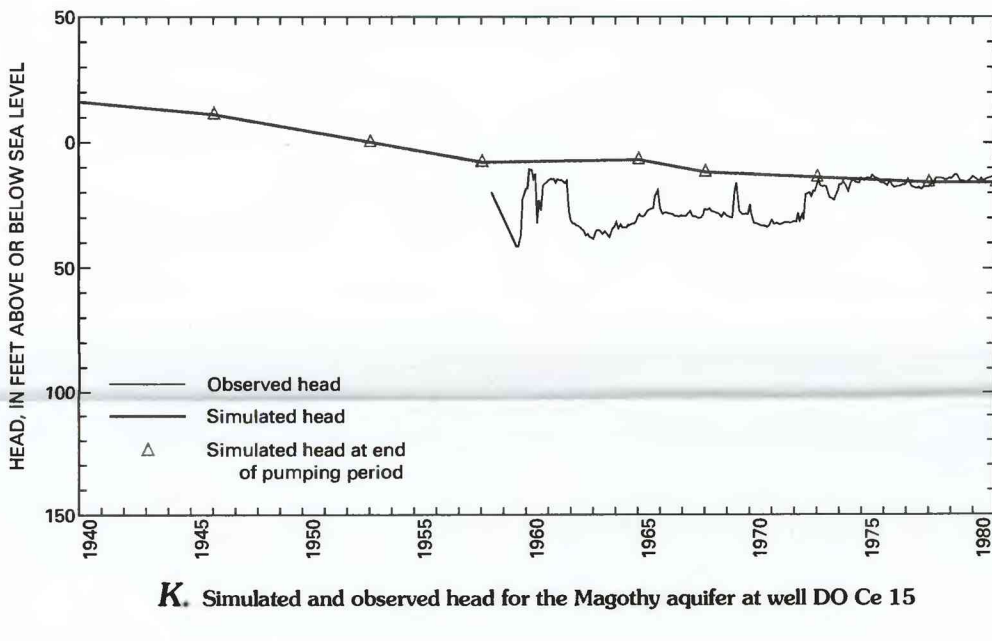
H. Simulated and observed head for the Magothly aquifer at well M 31-26



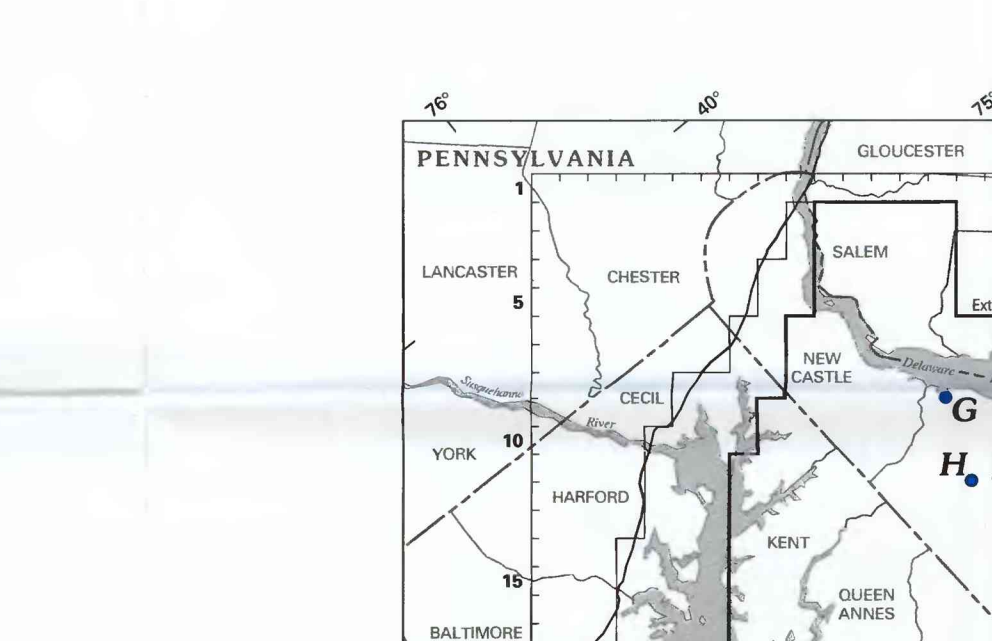
I. Simulated and observed head for the Magothly aquifer at well AA Dd 20



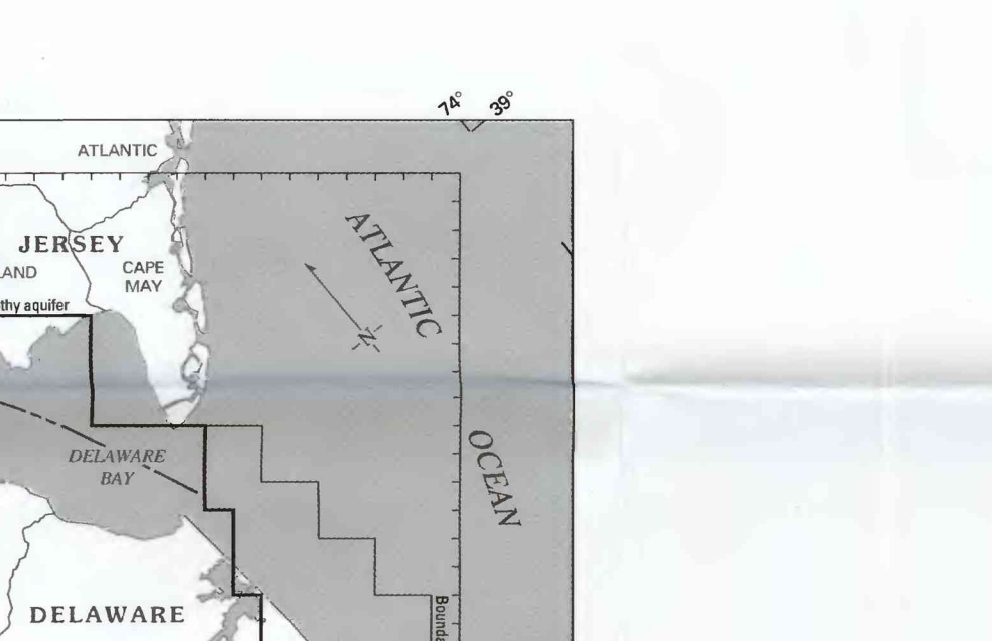
J. Simulated and observed head for the Magothly aquifer at well AA Dd 42



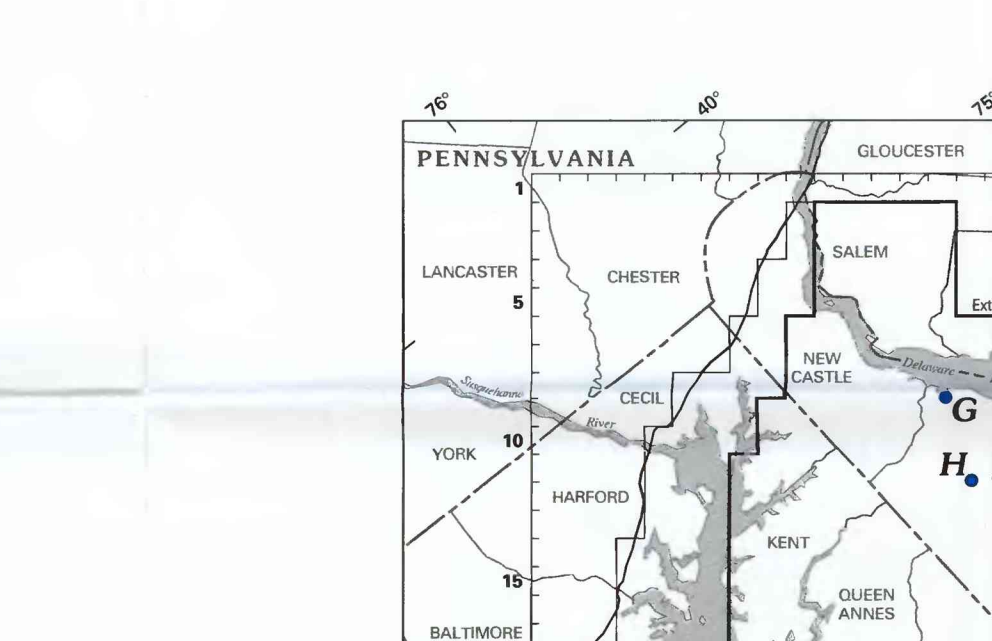
K. Simulated and observed head for the Magothly aquifer at well DO Ce 15



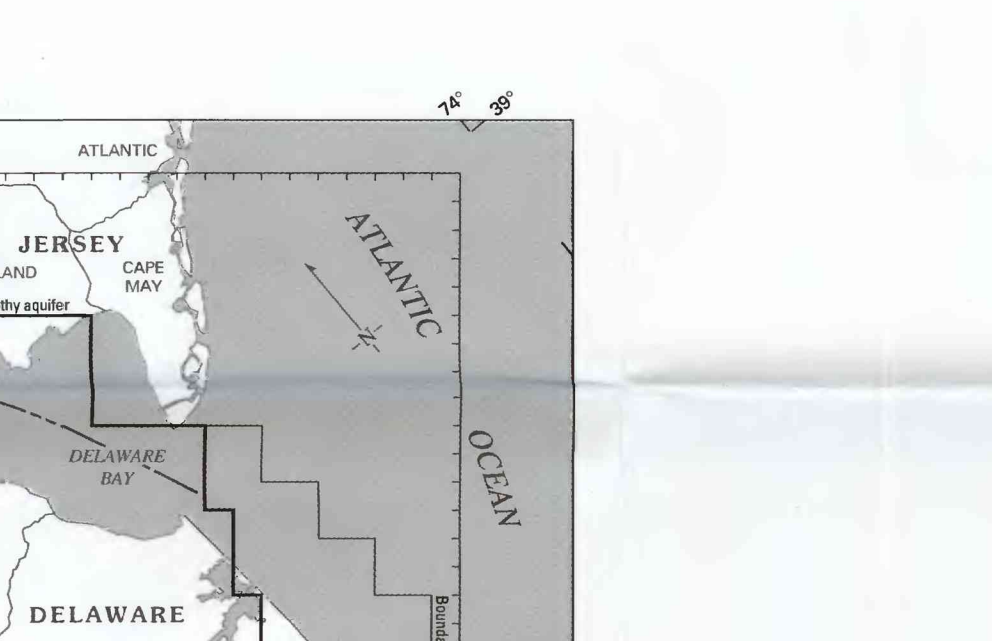
L. Simulated and observed head for the Magothly aquifer at well AA Fe 47



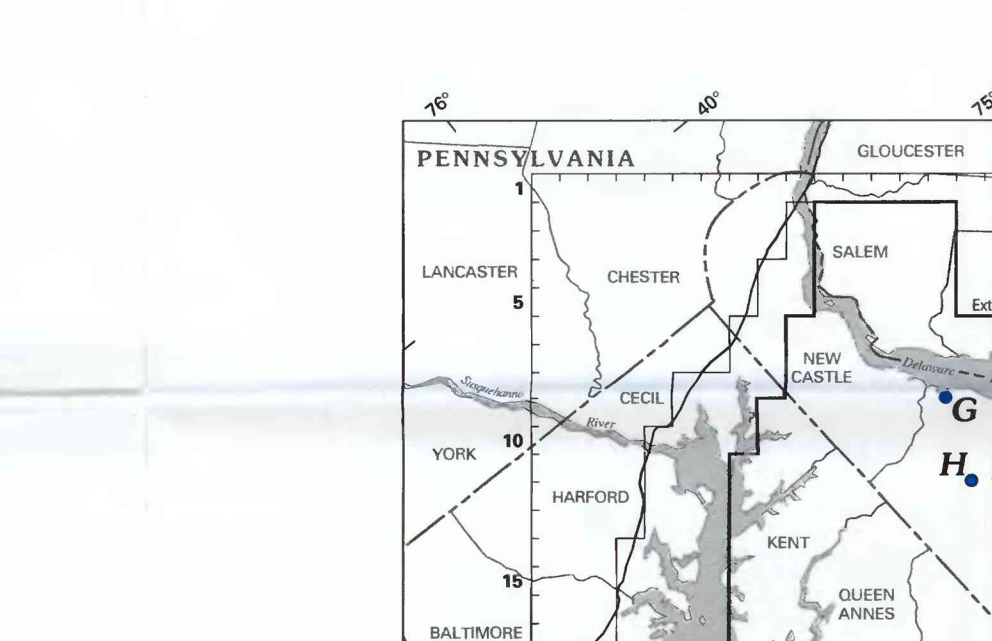
M. Simulated and observed head for the Magothly aquifer at well PG Hf 41



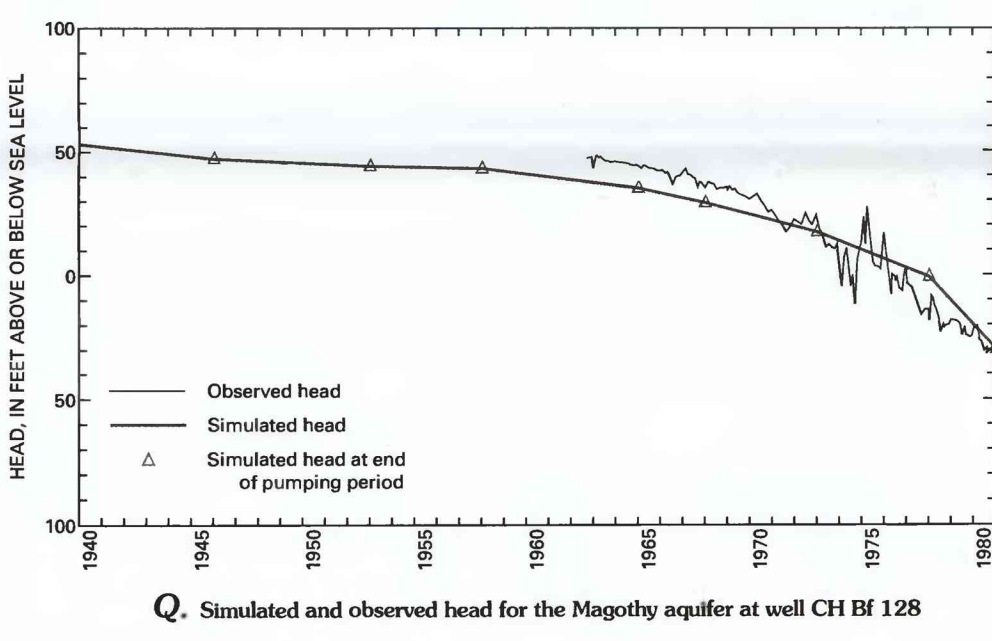
N. Simulated and observed head for the Magothly aquifer at well PG De 21



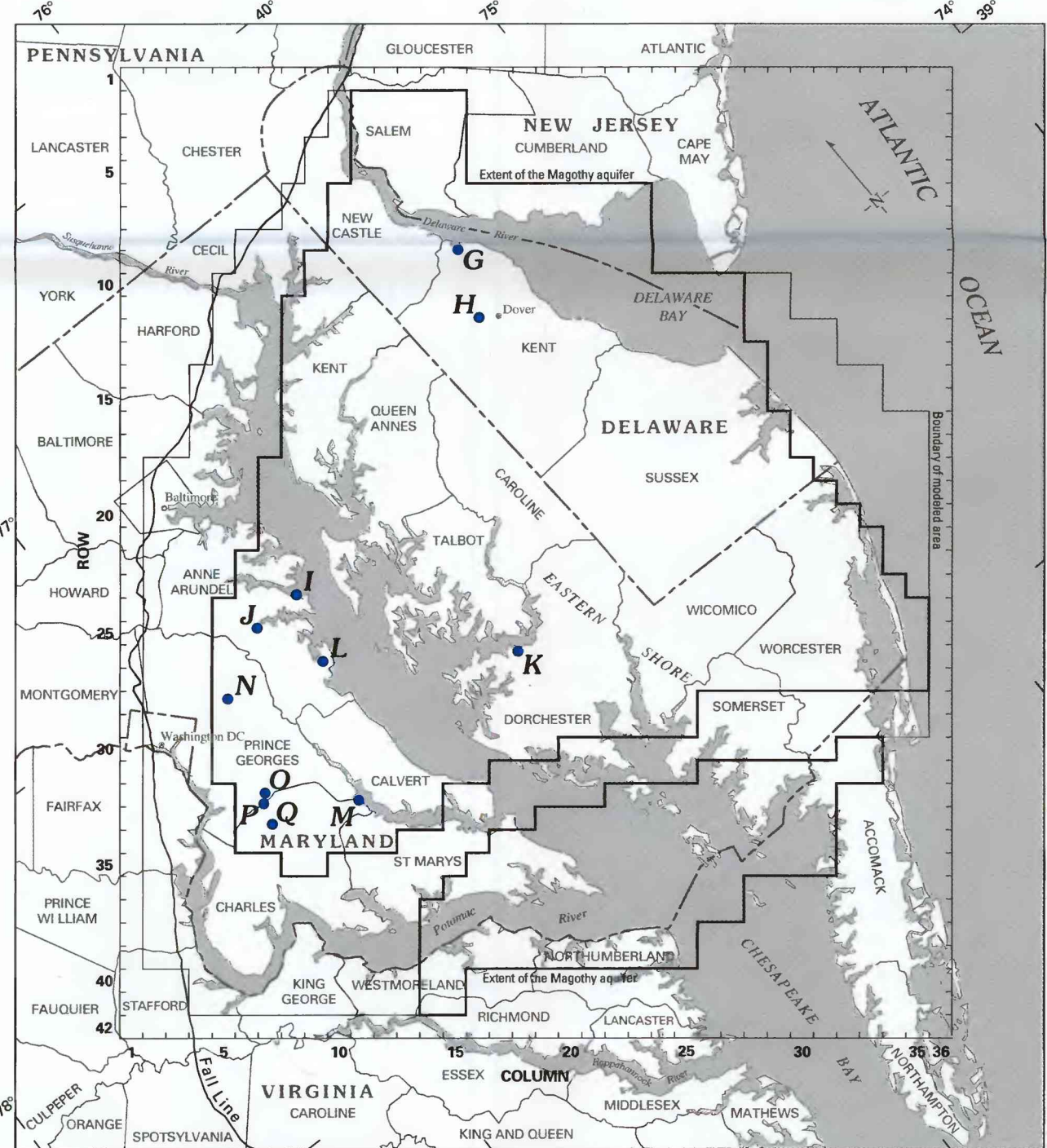
O. Simulated and observed head for the Magothly aquifer at well PG Fd 41



P. Simulated and observed head for the Magothly aquifer at well CH Bf 101



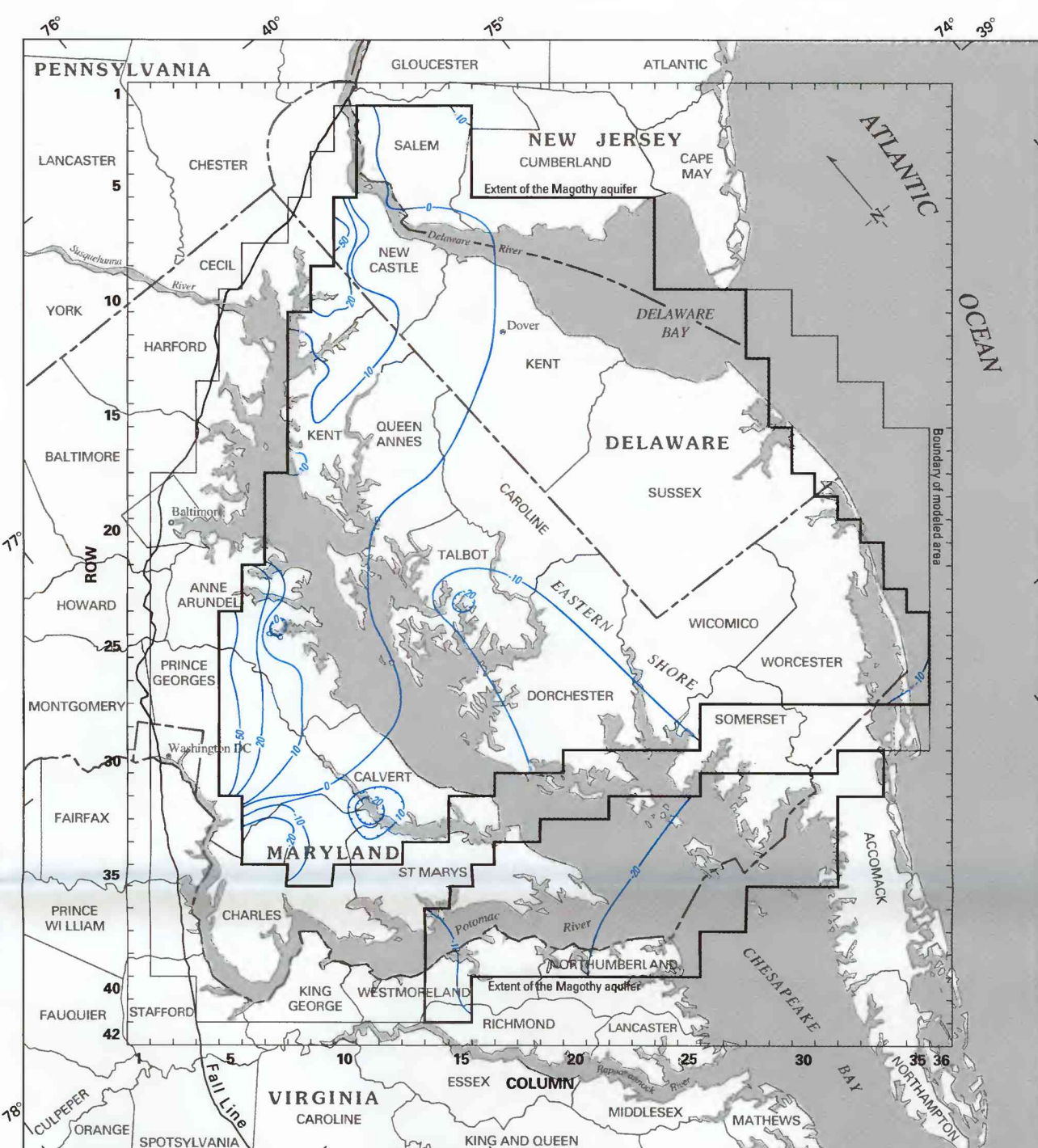
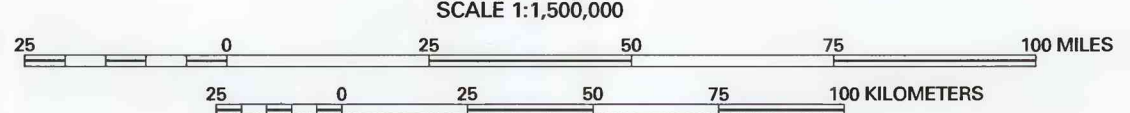
Q. Simulated and observed head for the Magothly aquifer at well CH Bf 128



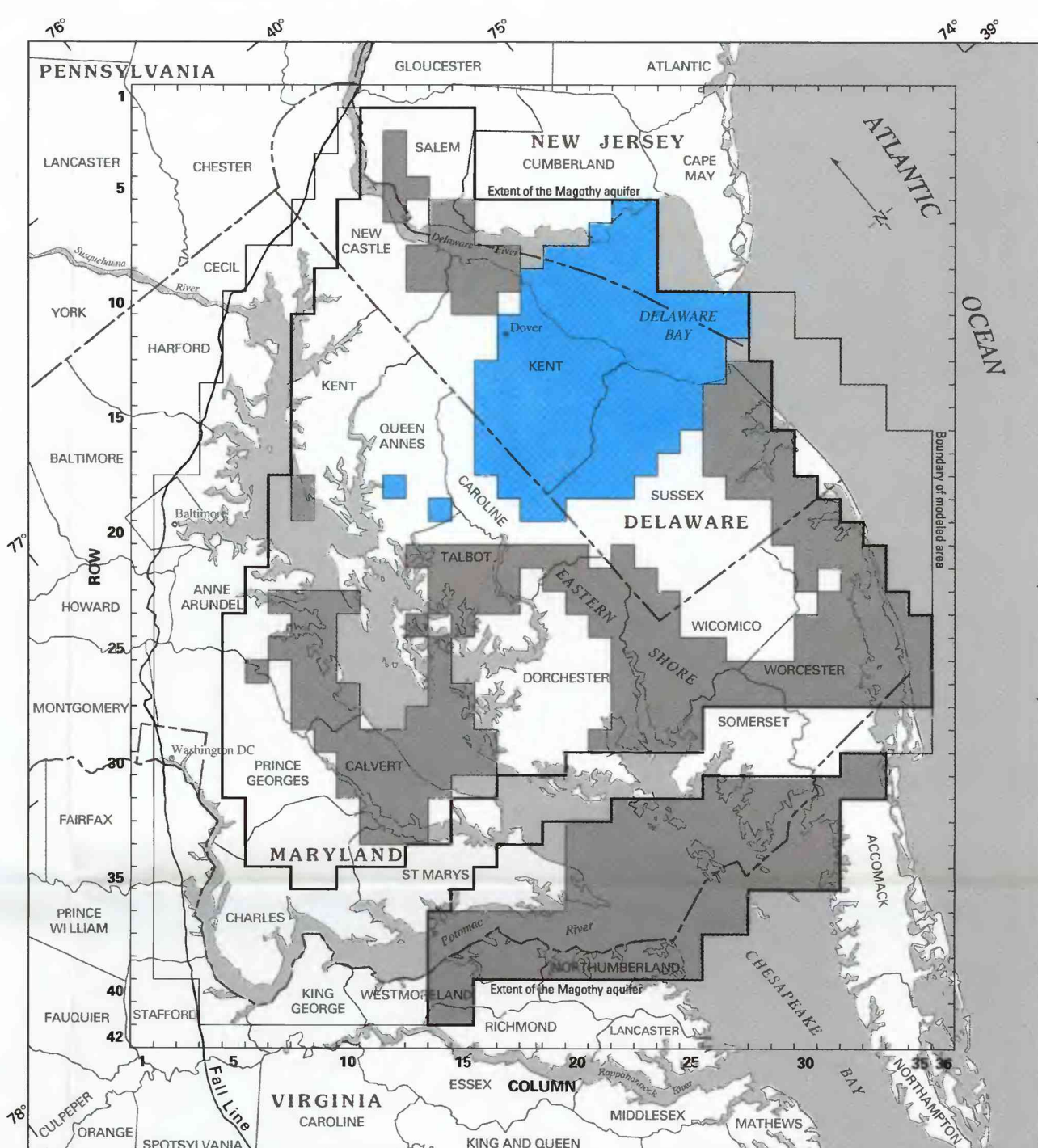
F. Location of wells for accompanying hydrographs

V. Ground-water budget analysis of the Magothly aquifer by simulation

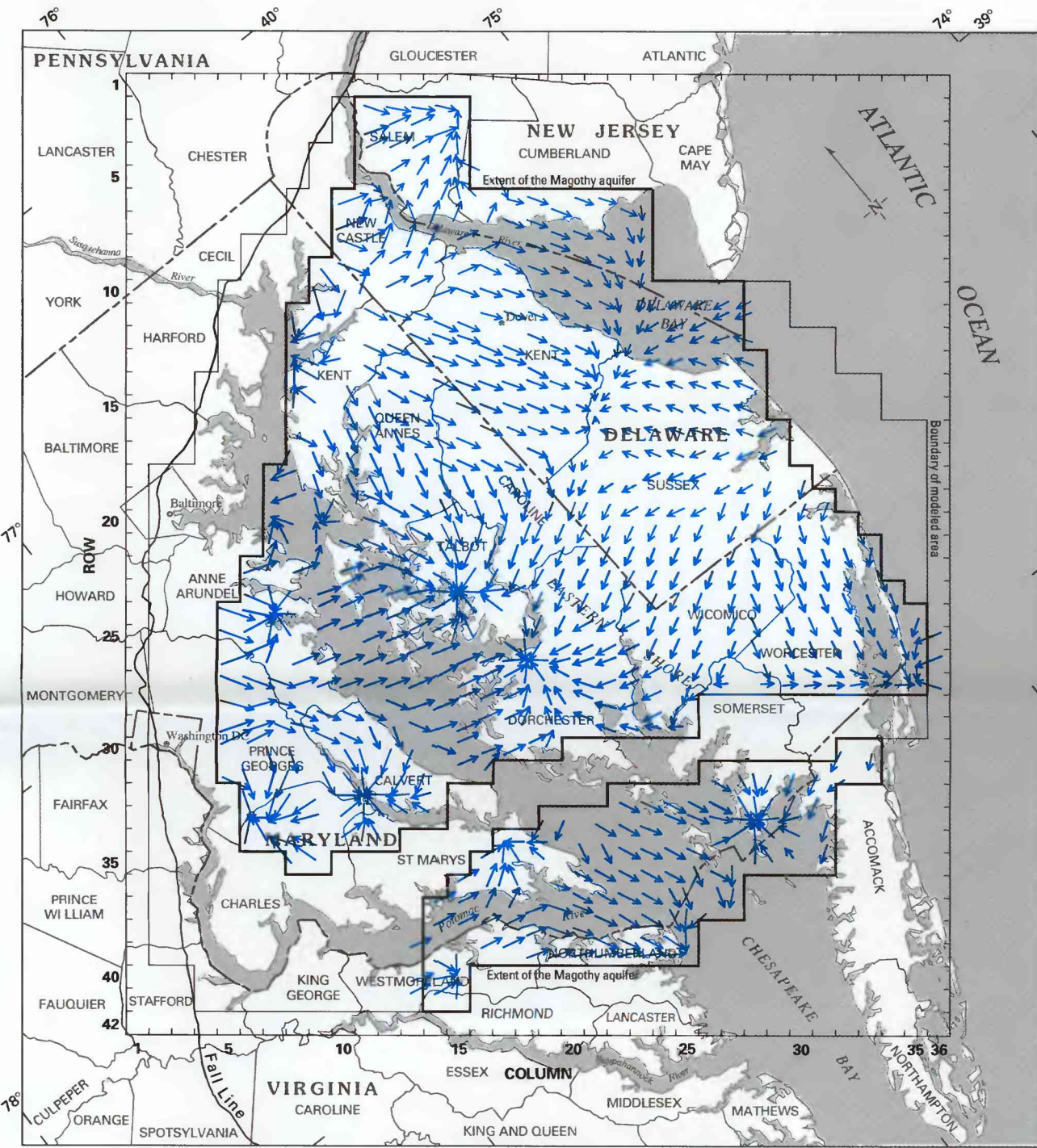
Principal sources and sinks	Prepping				Pumping Period 10, 1978-80			
	Cubic feet per second	Percentage of sources	Cubic feet per second	Percentage of sinks	Cubic feet per second	Percentage of sources	Cubic feet per second	Percentage of sinks
Areal ground-water recharge	362.1	96.2	—	—	362.1	95.0	—	—
Surface water	0	0	364.7	96.8	0	0	360.3	91.3
Leakage through confining units	13.4	3.6	12.0	3.2	17.9	4.7	33.6	8.3
Constant-flux boundary	1.0	0.3	<0.1	<0.1	0.3	<0.1	7.2	1.9
Storage	0	0	0	0	1.0	0.3	6.9	1.8
Pumpage	—	—	0	0	—	—	142	3.7
Total	375.5	100.1	378.8	100.0	381.3	100.0	387.7	100.0
Percent error	<0.1				0.3			



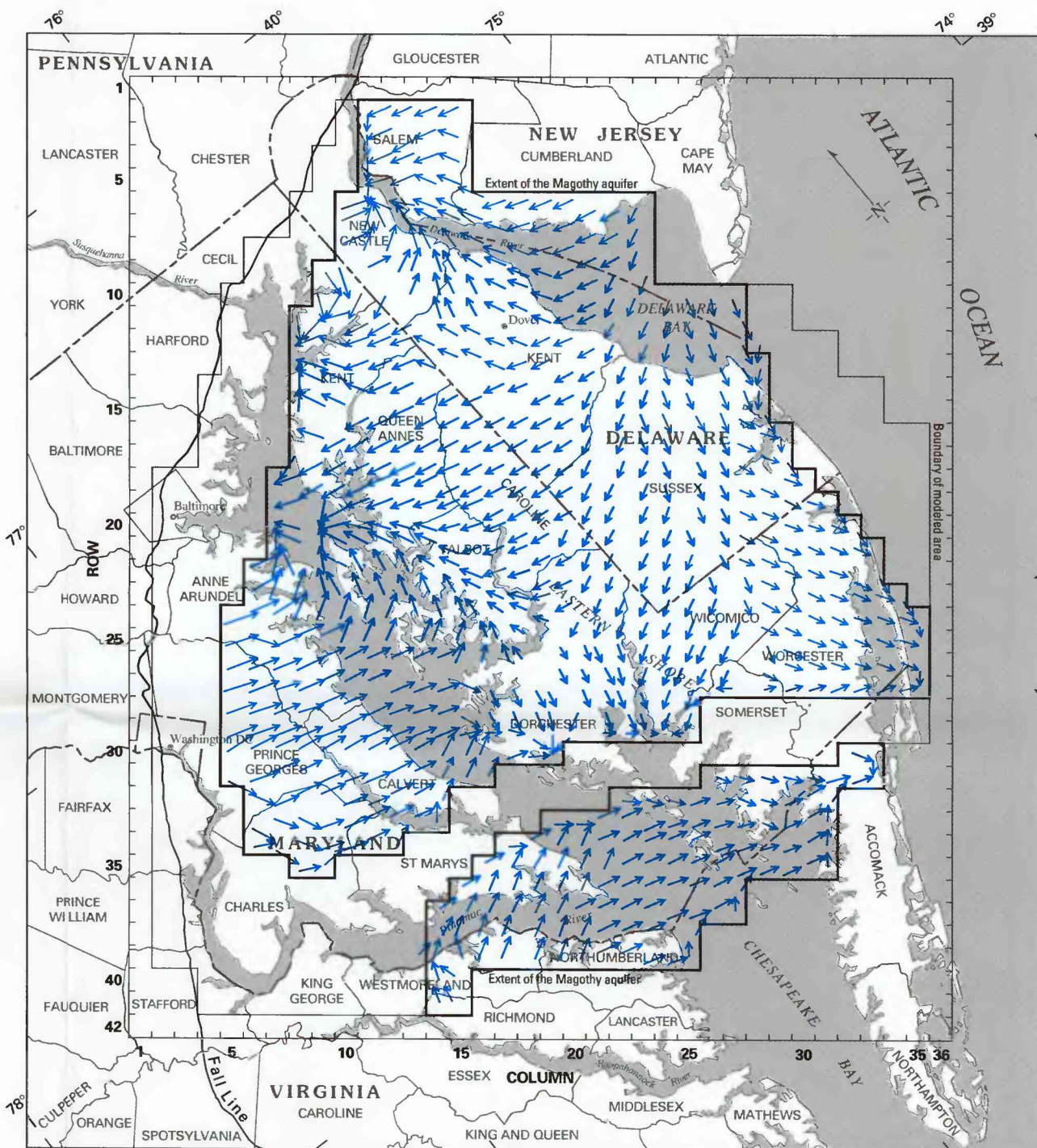
R. Simulated heads of the Magothly aquifer for pumping period 10, 1978-80



S. Reversals in the direction of vertical flow through the Matawan confining unit, from simulations of prepping conditions to pumping conditions during 1978-80



T. Simulated direction and magnitude of ground-water flow in the Magothly aquifer during pumping period 10, 1978-80



U. Simulated direction and magnitude of ground-water flow in the Magothly aquifer during prepping conditions