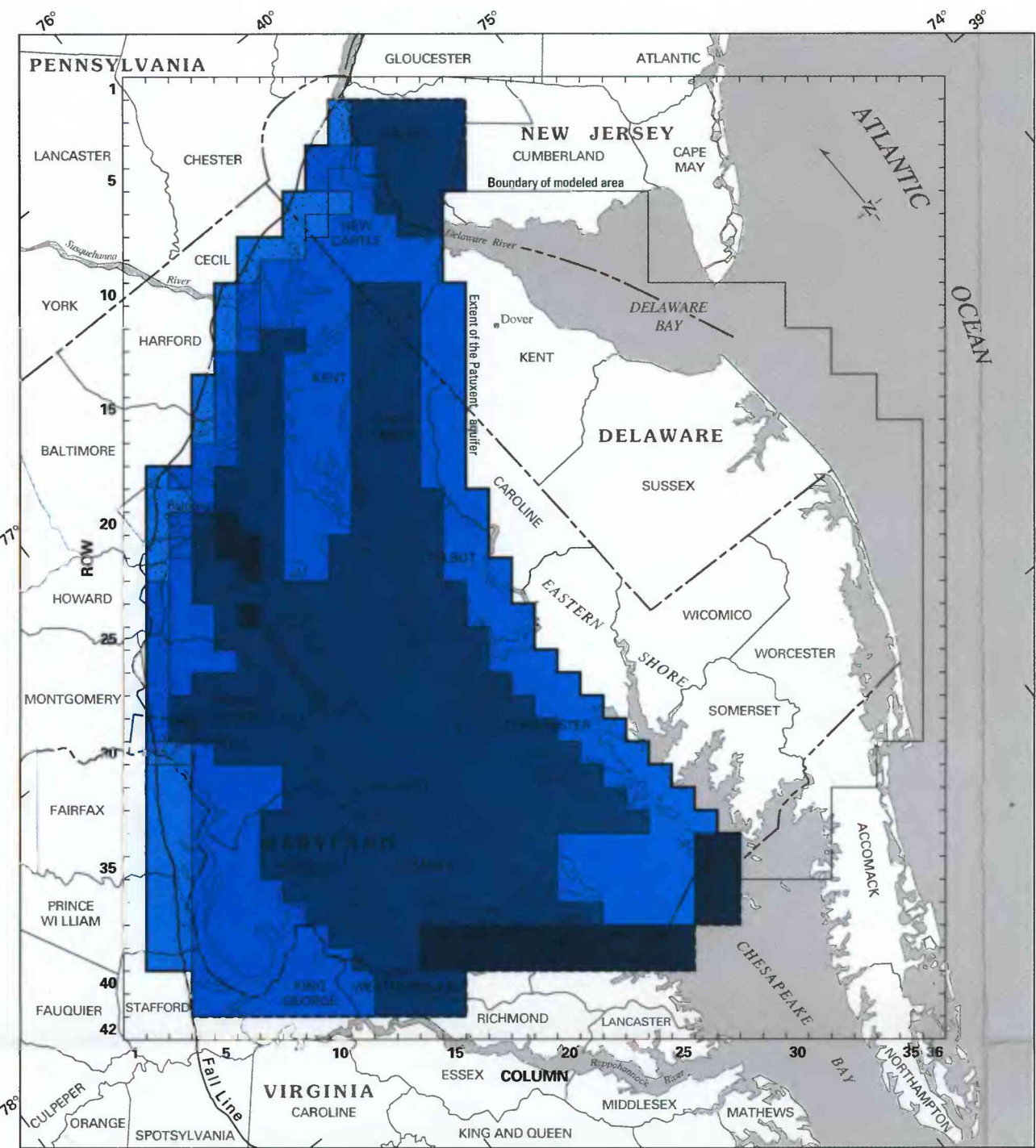
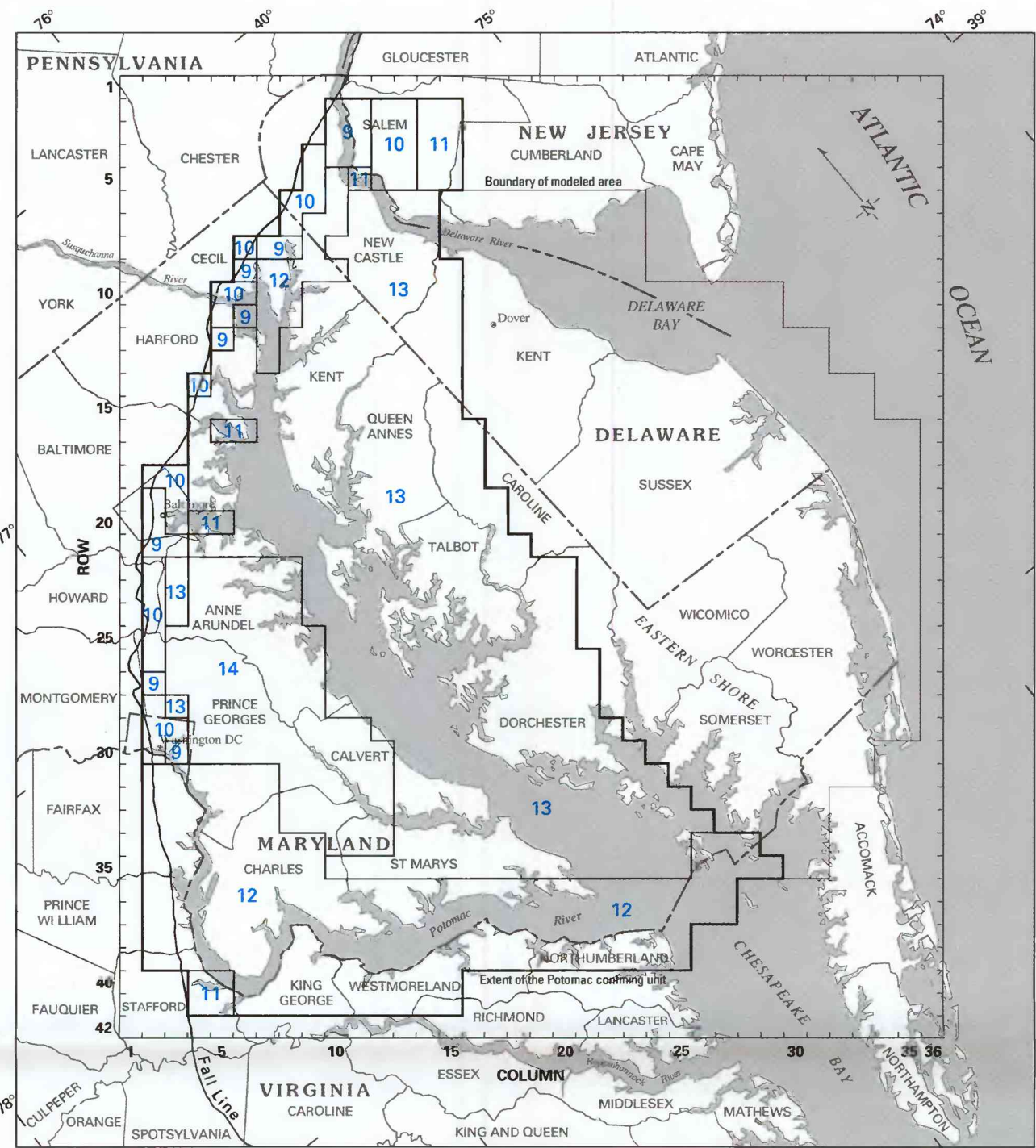
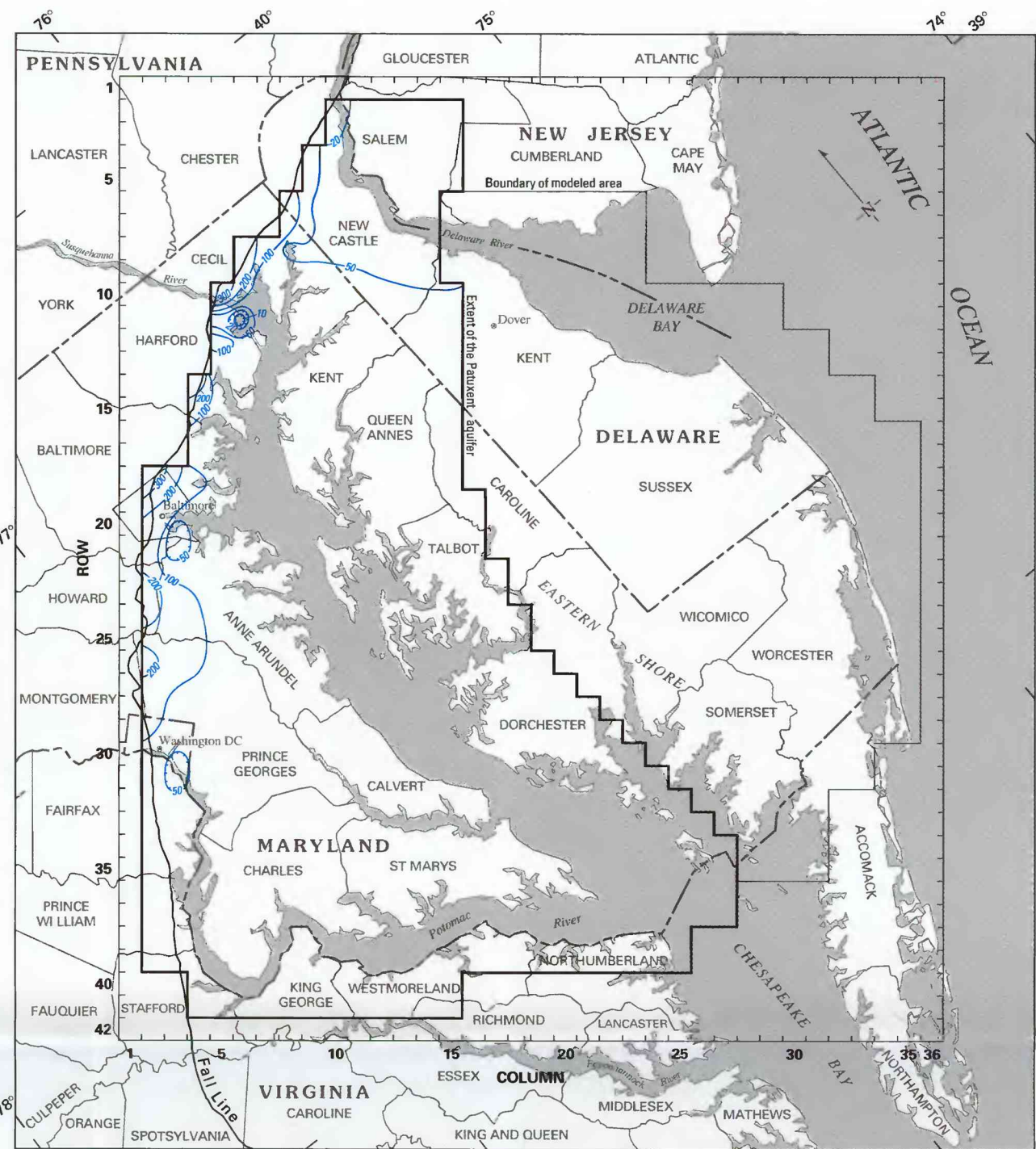




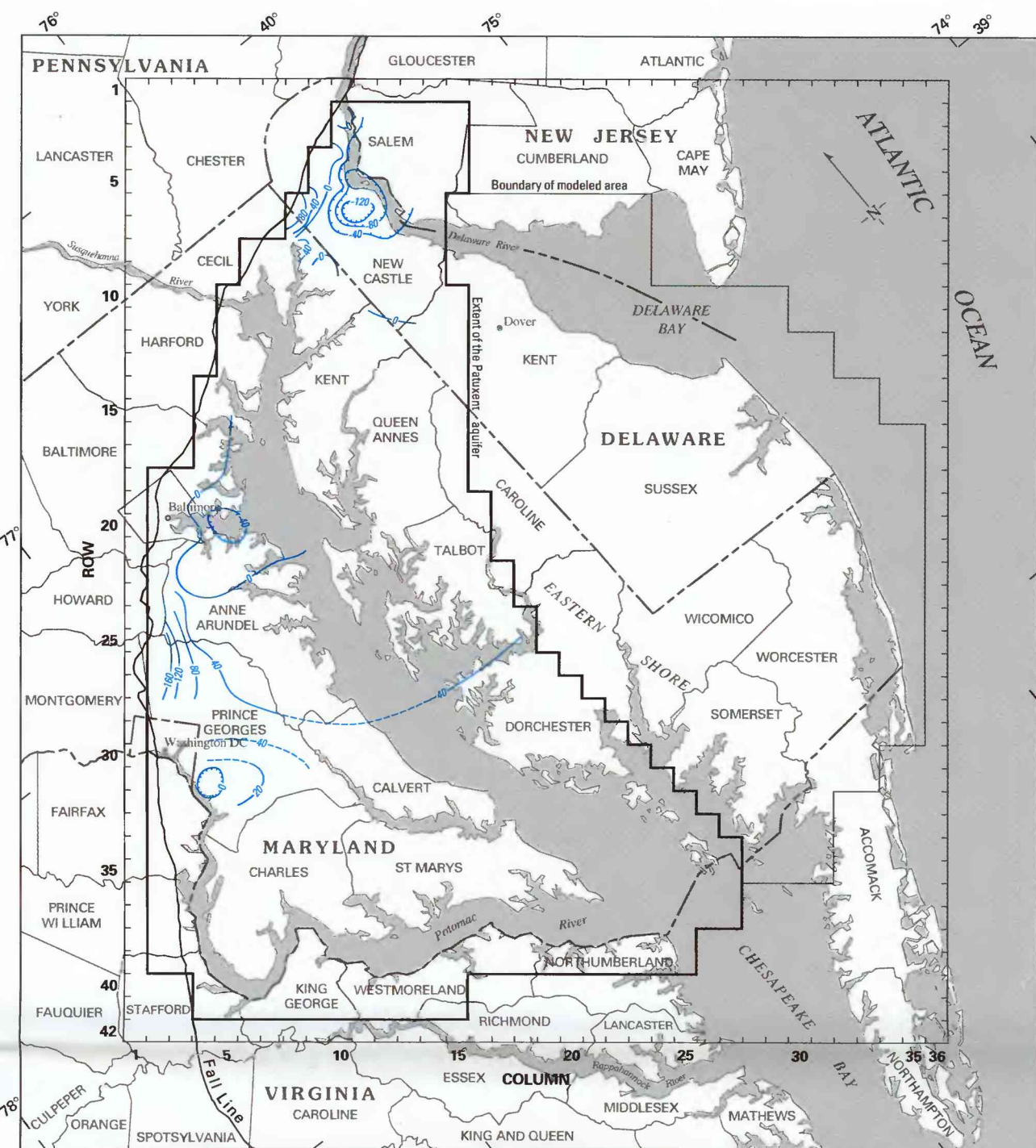
A. Transmissivity, boundary conditions, and extent of the Patuxent aquifer as used in model



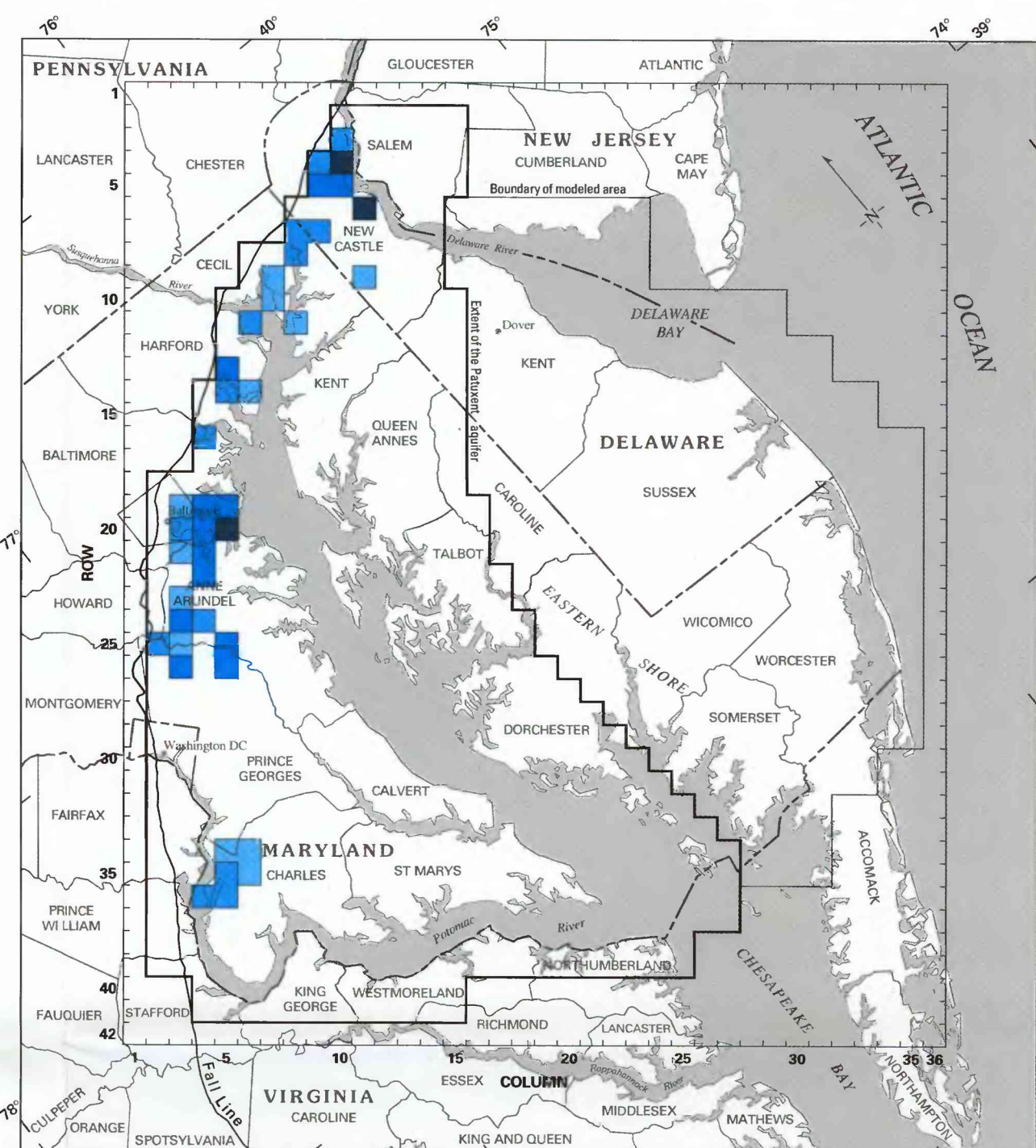
B. Leakage values of the Potomac confining unit used in model



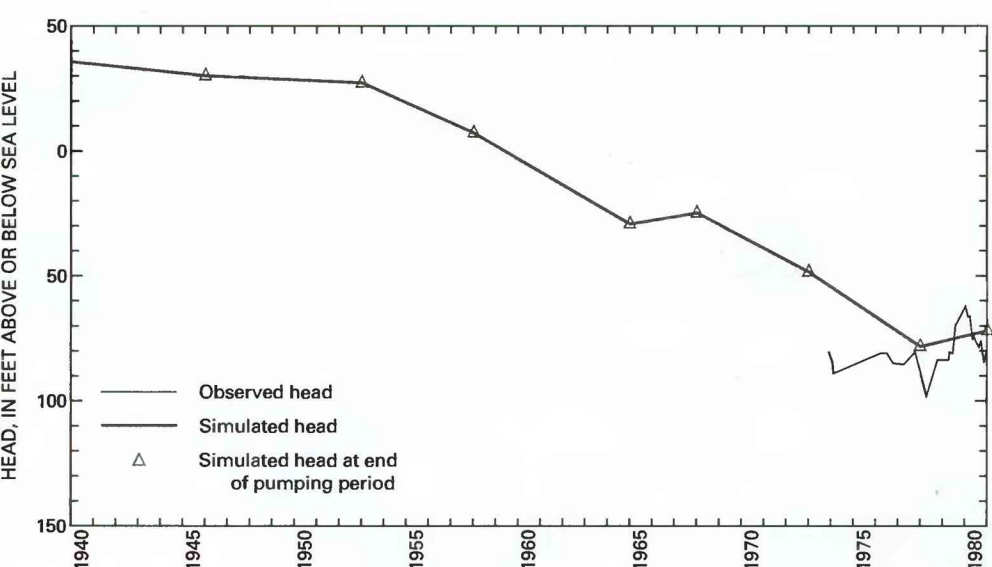
C. Simulated heads of the Patuxent aquifer for prepumping conditions



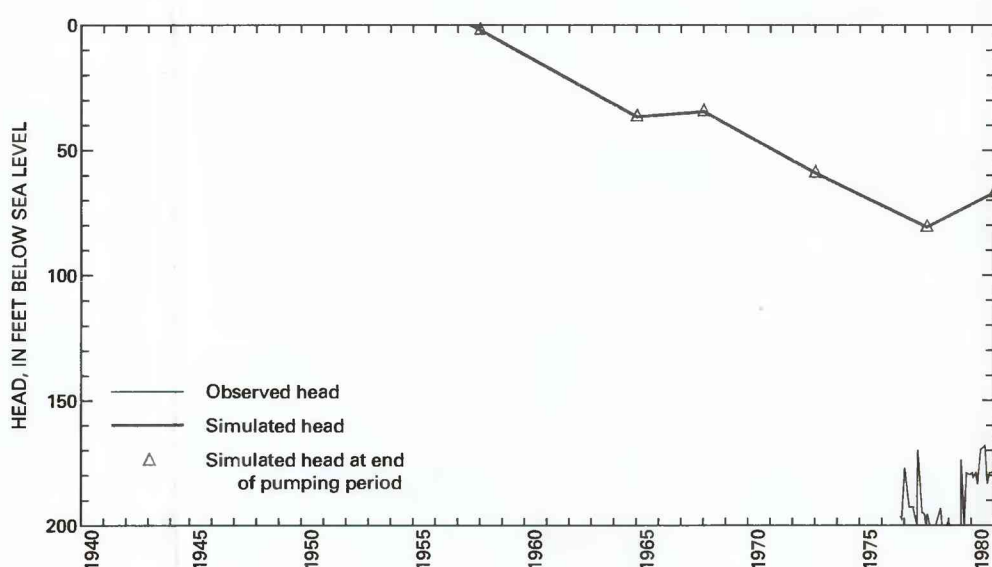
D. Observed heads of the Patuxent aquifer for 1980



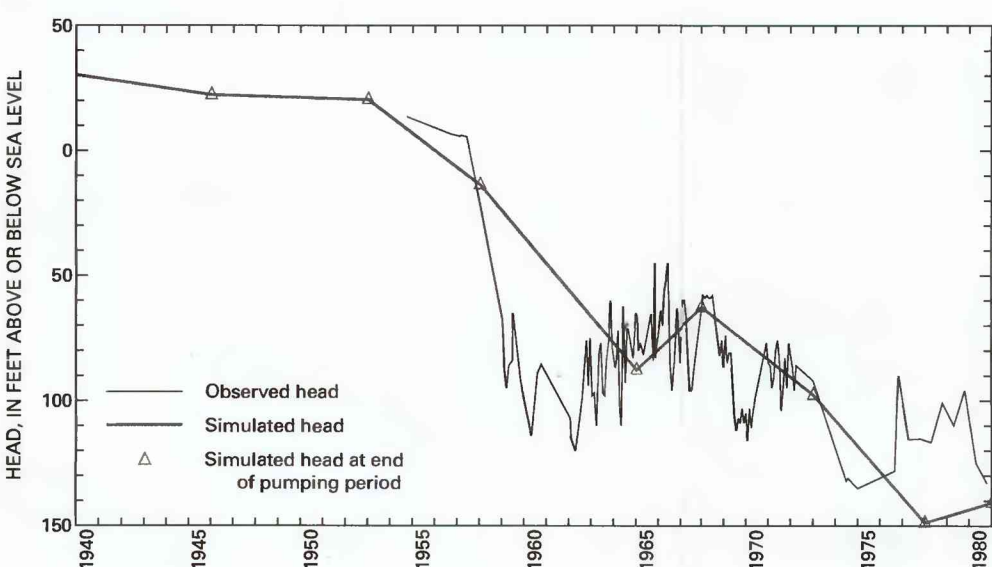
E. Location and magnitude of pumpage (1978-80) for the Patuxent aquifer as used in model



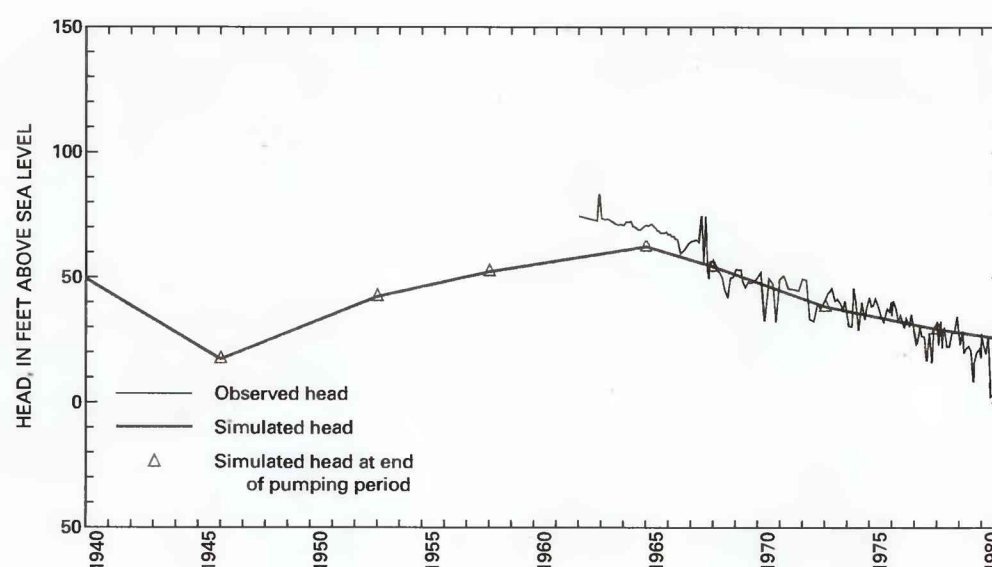
G. Simulated and observed head for the Patuxent aquifer at well Dc 31-27



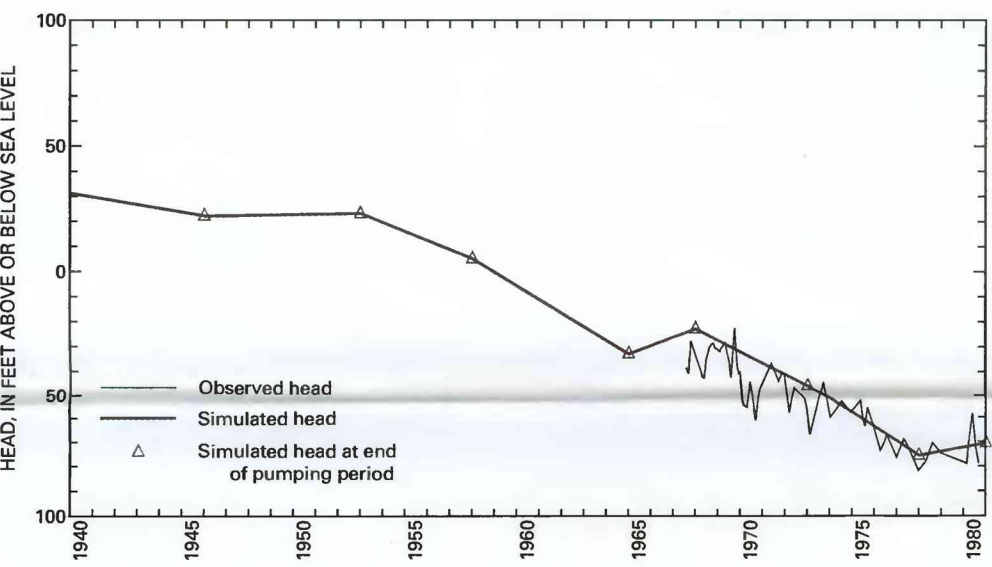
H. Simulated and observed head for the Patuxent aquifer at well Cd 44-14



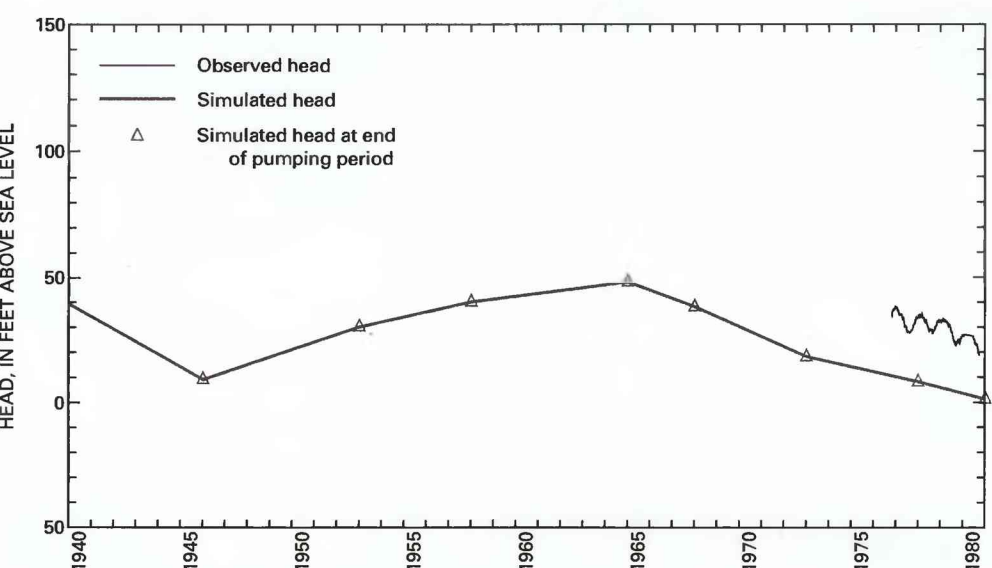
I. Simulated and observed head for the Patuxent aquifer at well Dc 53-7



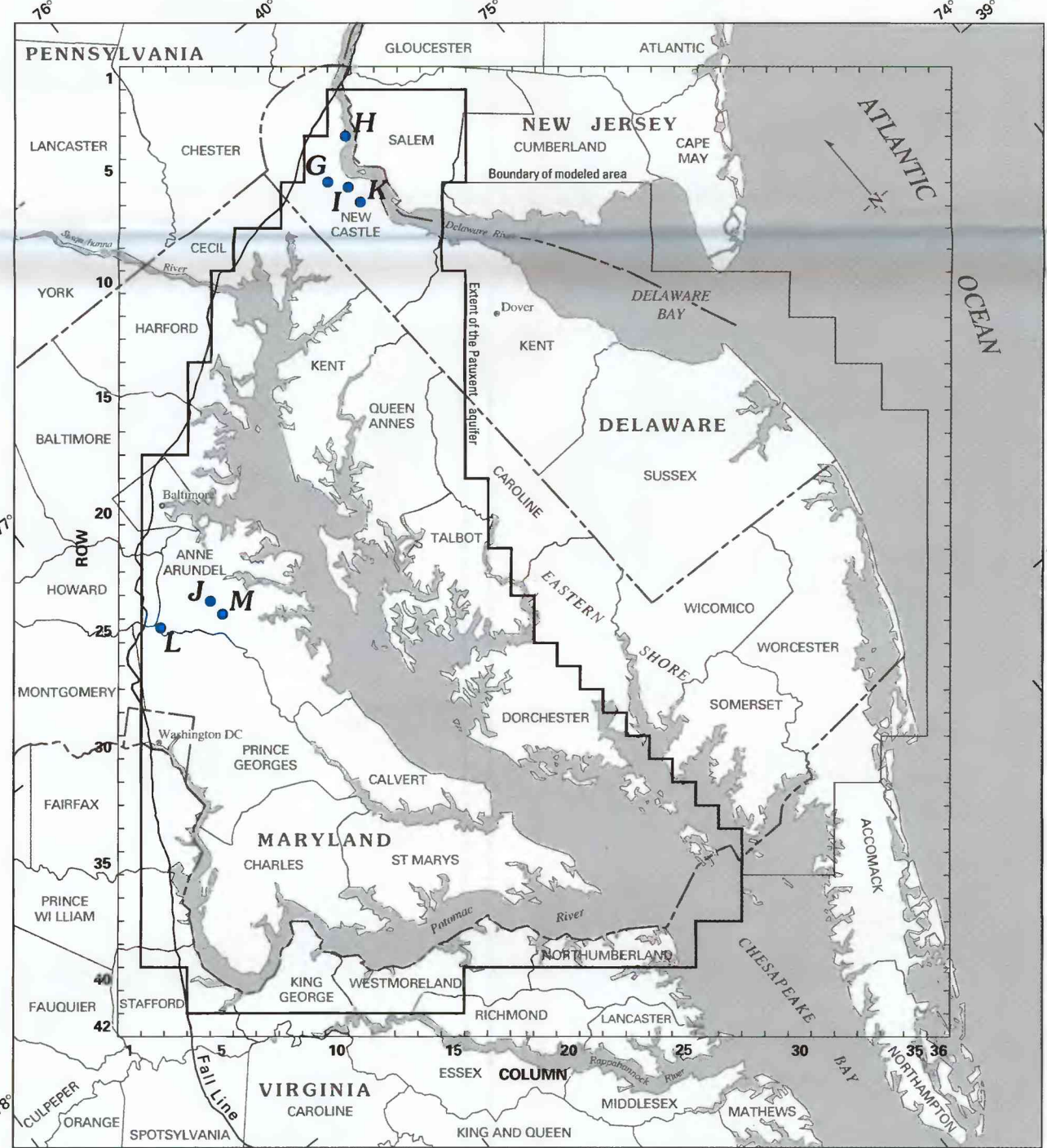
J. Simulated and observed head for the Patuxent aquifer at well AA Cc 80



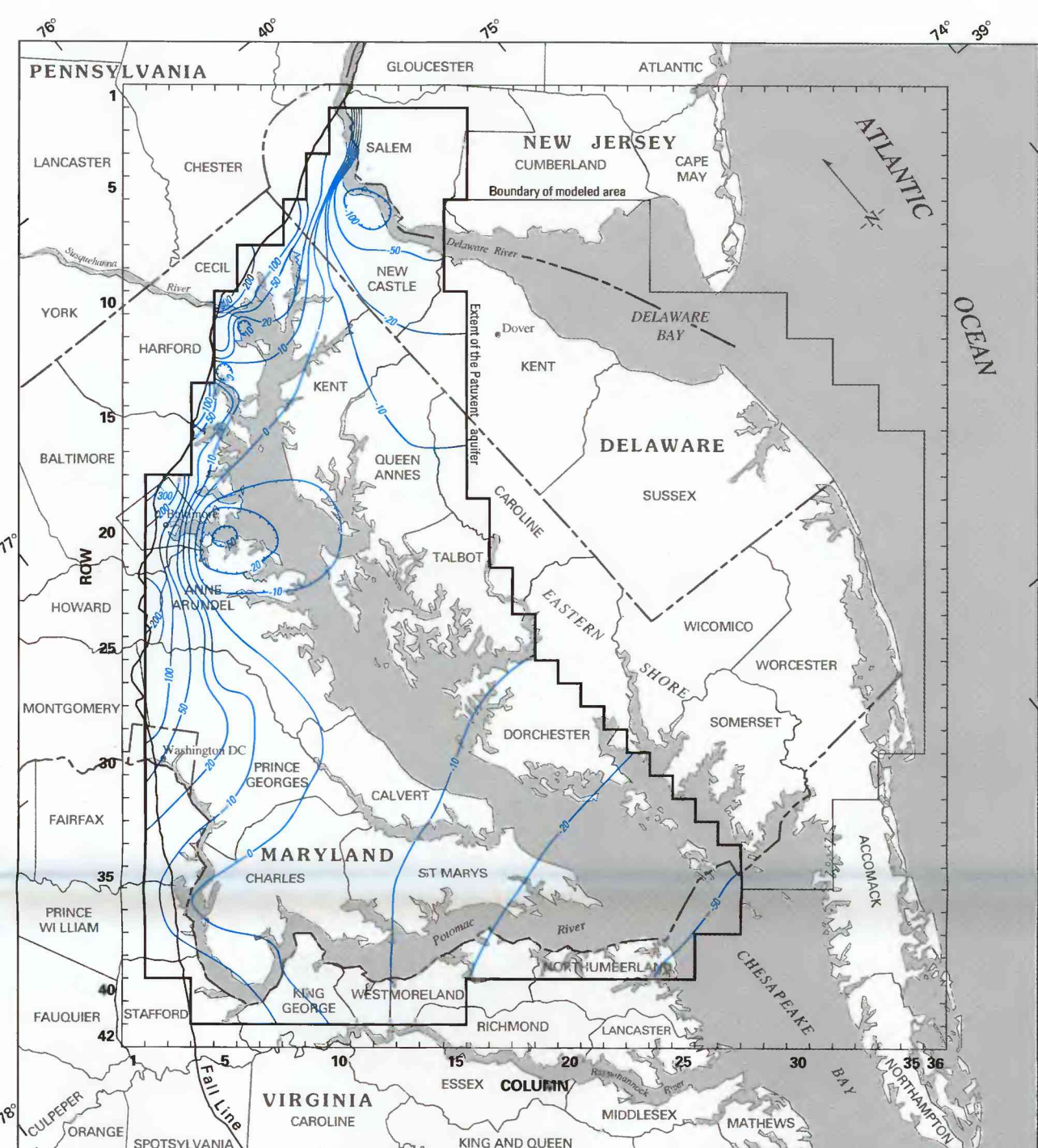
K. Simulated and observed head for the Patuxent aquifer at well Ec 32-7



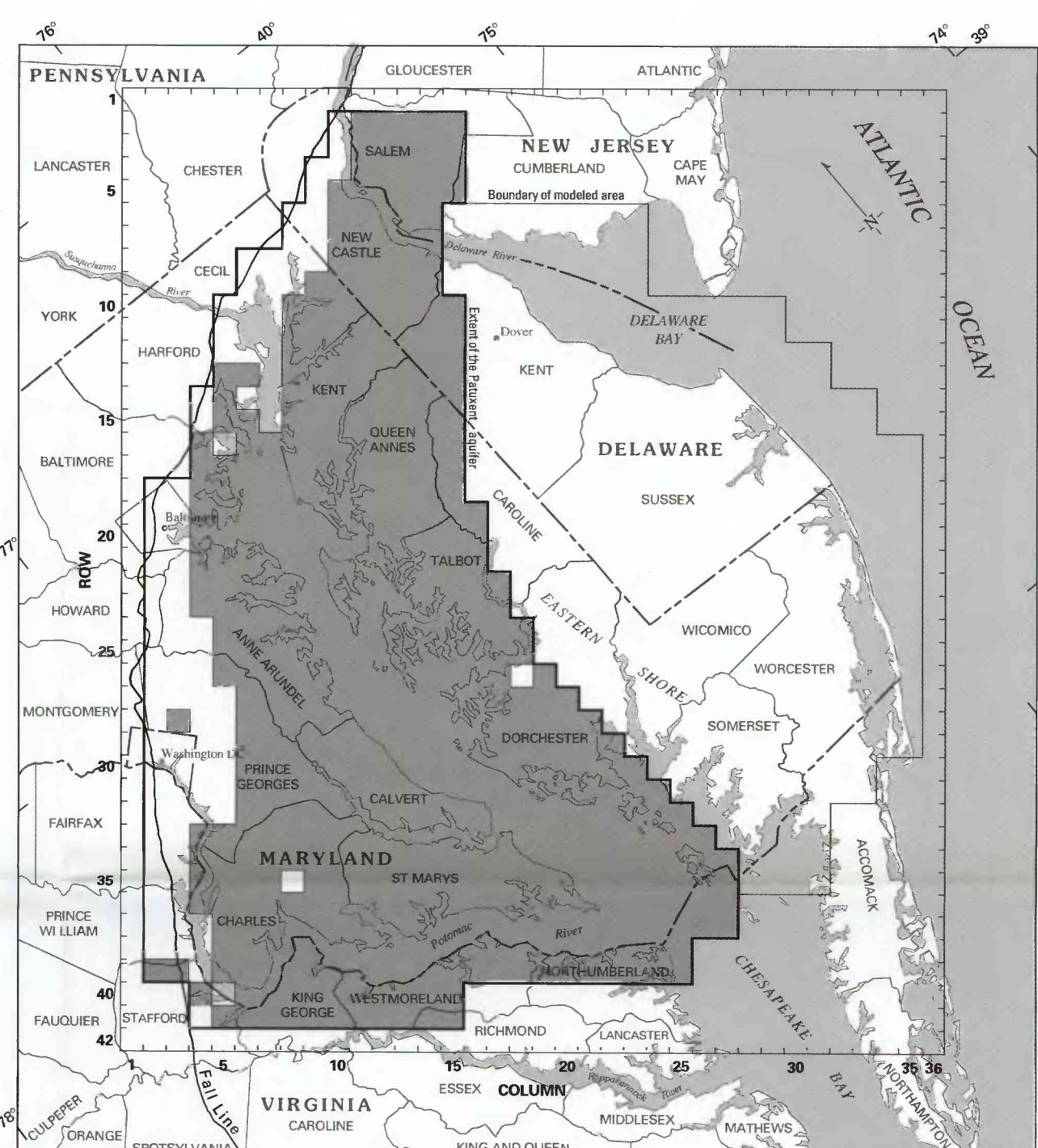
L. Simulated and observed head for the Patuxent aquifer at well PG Ad 8



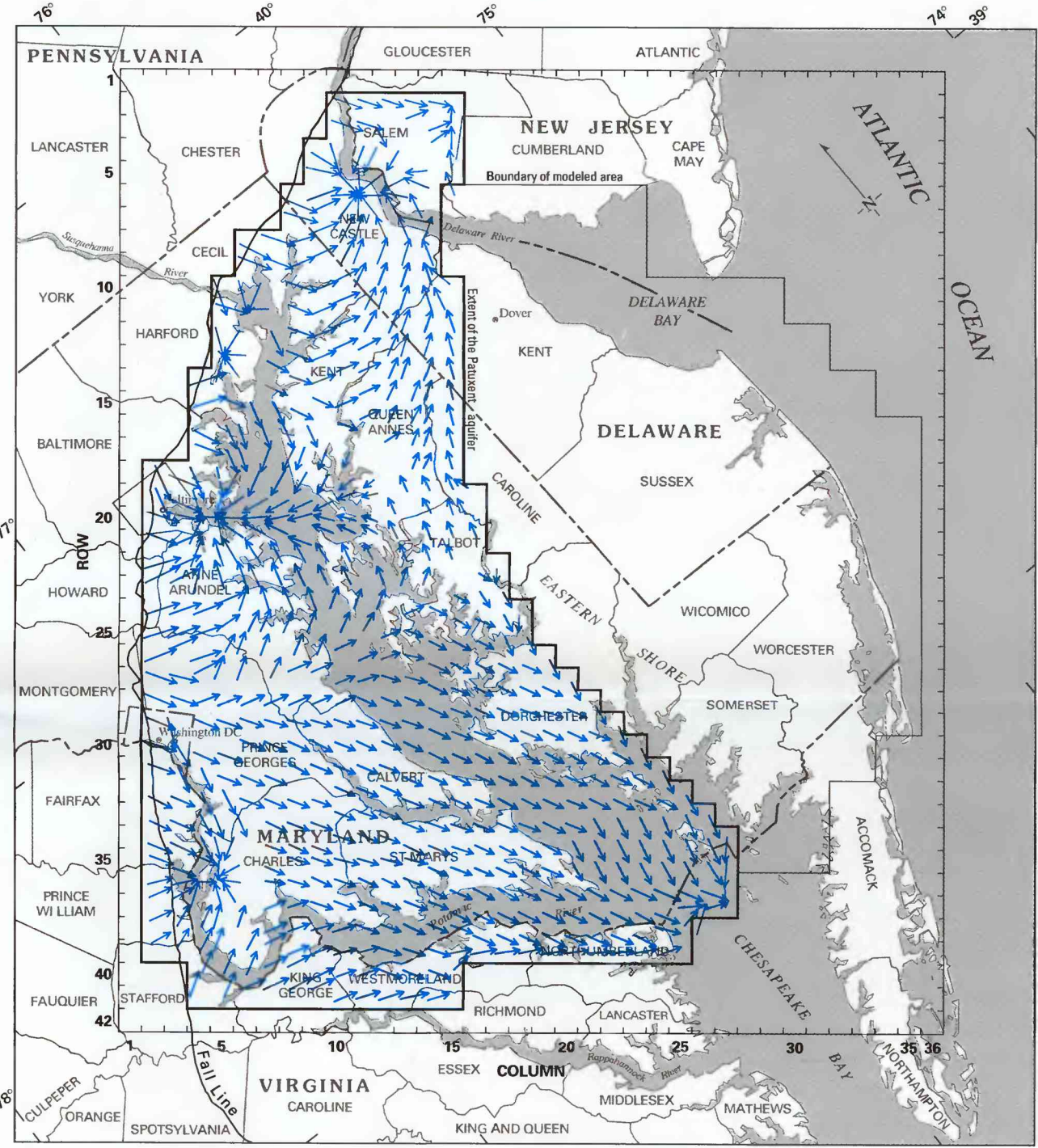
F. Location of wells for accompanying hydrographs



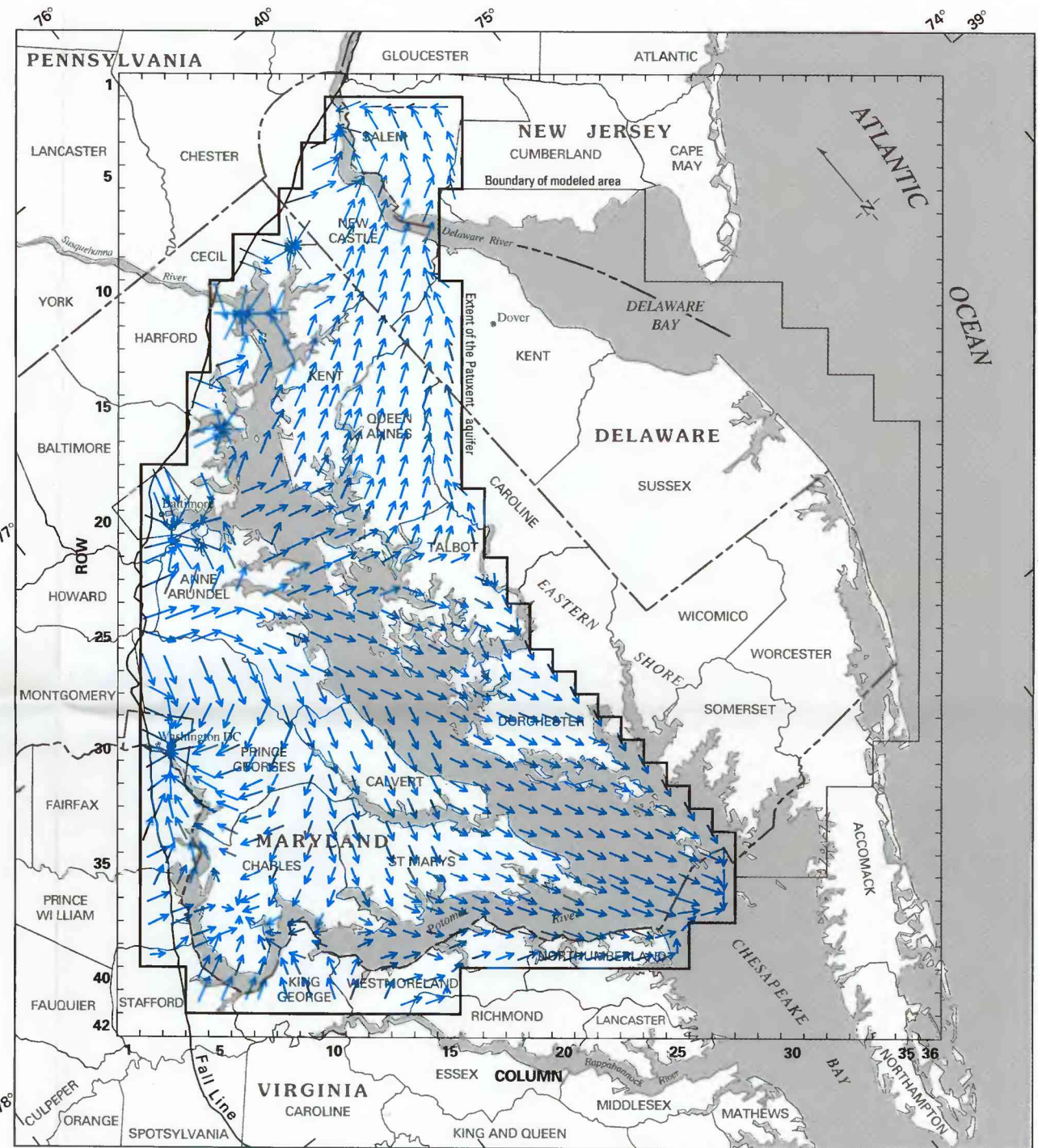
N. Simulated heads of the Patuxent aquifer for pumping period 10, 1978-80



O. Reversals in the direction of vertical flow through the Potomac confining unit, from simulations of prepumping conditions to pumping conditions during 1978-80



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



Q. Simulated direction and magnitude of ground-water flow in the Patuxent aquifer during prepumping conditions

R. Ground-water budget analysis of the Patuxent aquifer by simulation

Principal sources and sinks	Prepumping				Pumping Period 10, 1978-80			
	Source	Cubic feet per second	Percentage of sources	Sink	Source	Cubic feet per second	Percentage of sources	Sink
Actual ground-water recharge	529.2	99.8	—	—	529.2	97.3	0	—
Surface water	0	0	922.9	96.5	0	0	—	482.9
Leakage through confining units	0.6	0.1	7.1	1.3	4.4	0.8	633.3	3.6
Constant-flux boundary	0.5	<0.1	0.8	0.1	4.8	0.9	860.0	0.7
Storage	0	0	0	0	0.5	0.1	—	1.1
Pumpage	—	—	0	0	—	—	—	55.4
Total	530.3	100.0	530.3	99.9	540.9	100.0	2.8	540.9
Percent error	—	—	<0.1	—	—	—	<0.1	—

