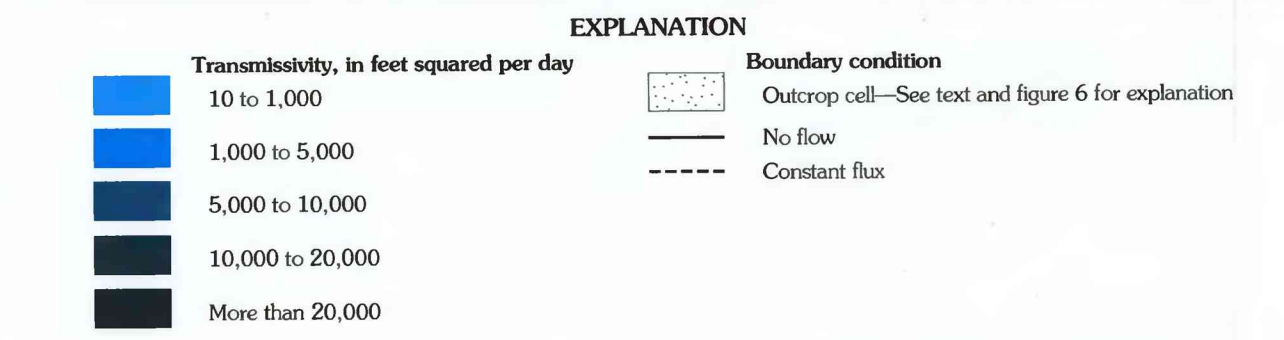
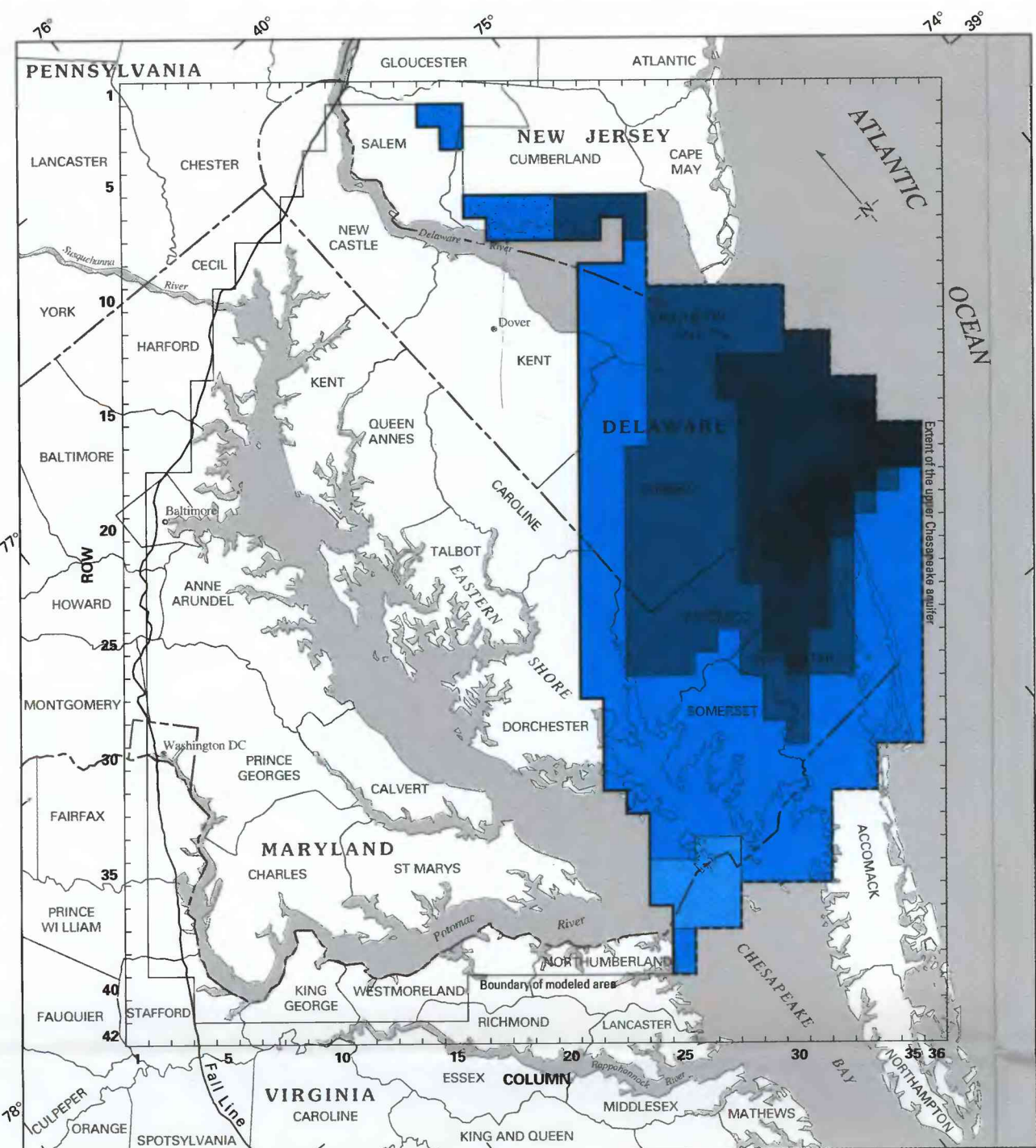
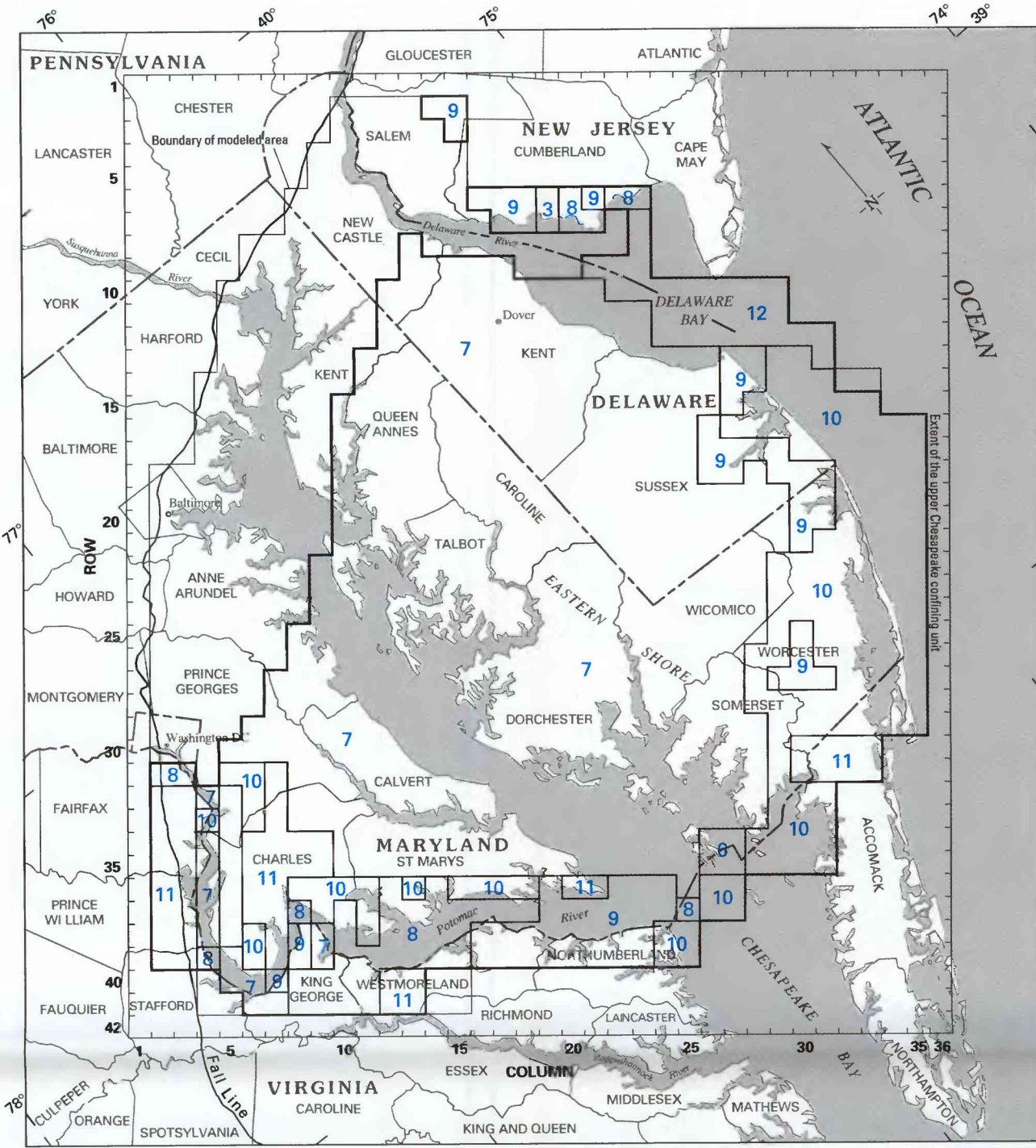
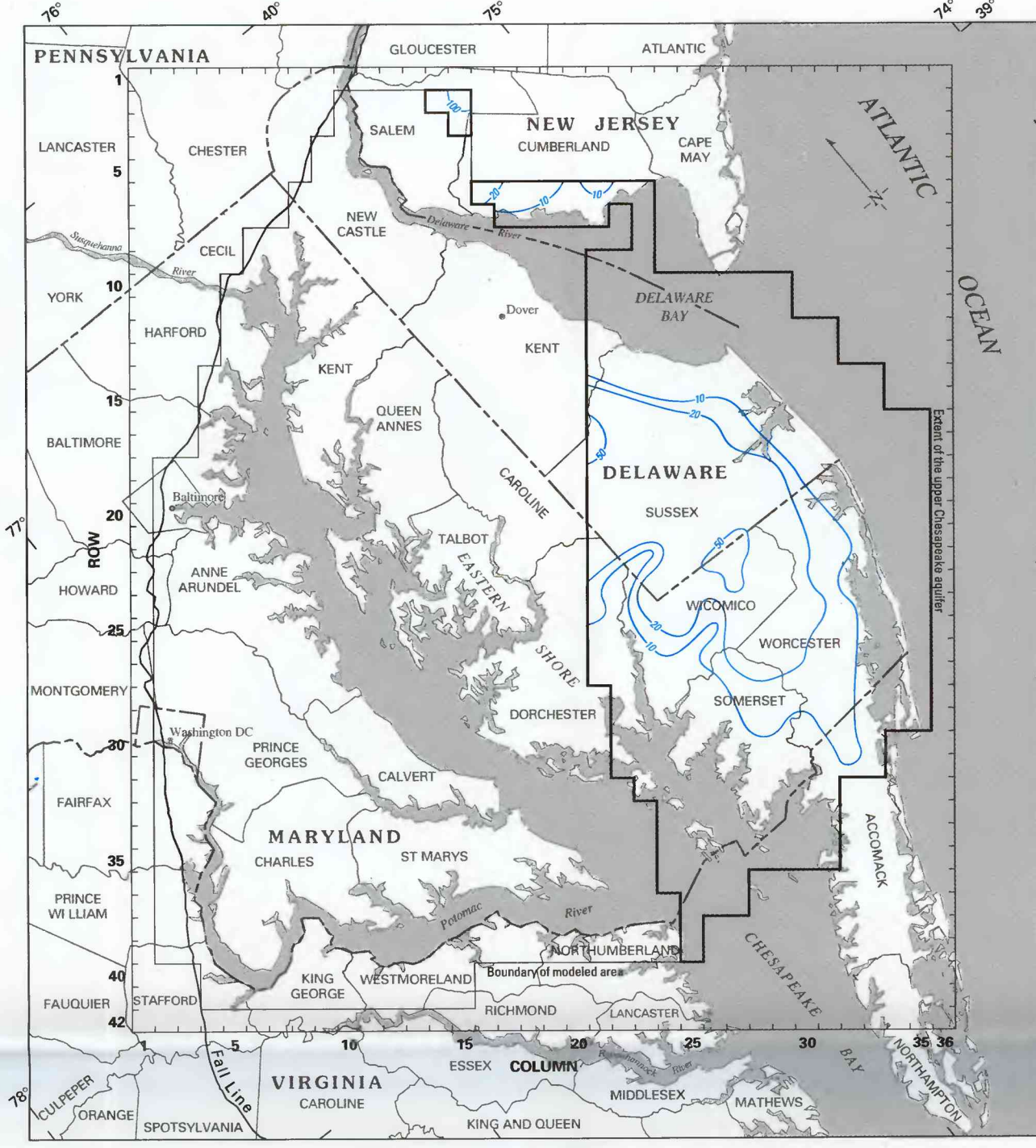




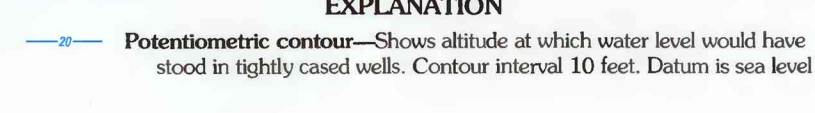
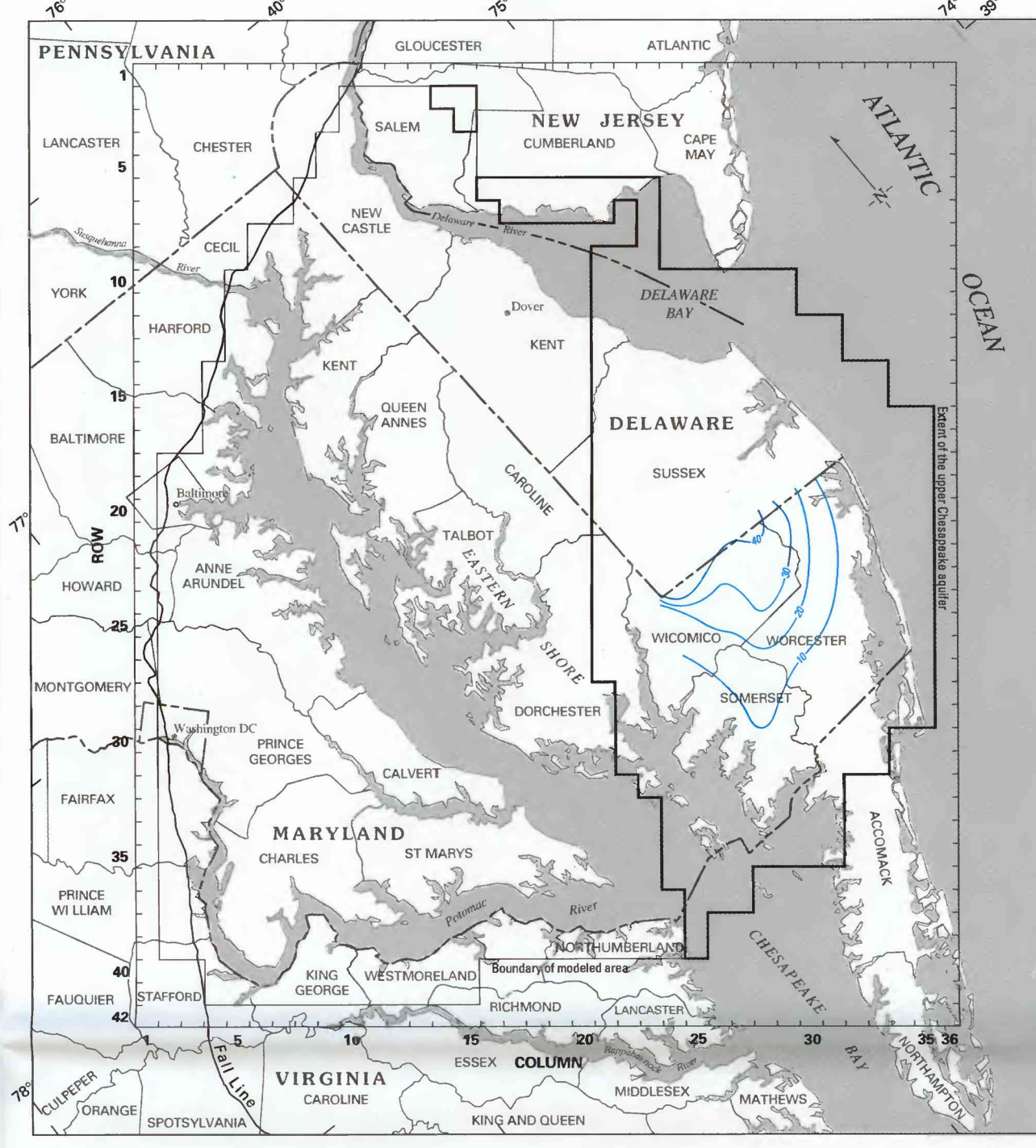
A. Transmissivity, boundary conditions, and extent of the upper Chesapeake aquifer as used in model



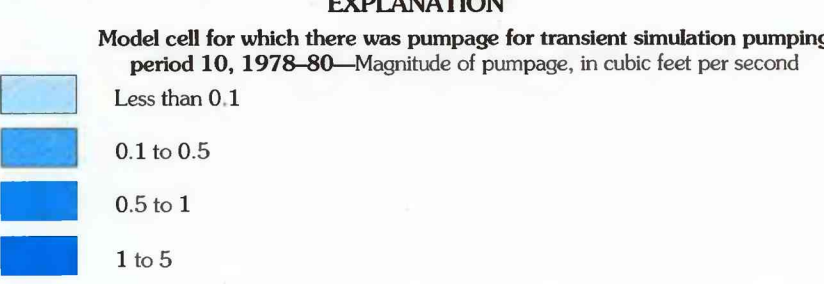
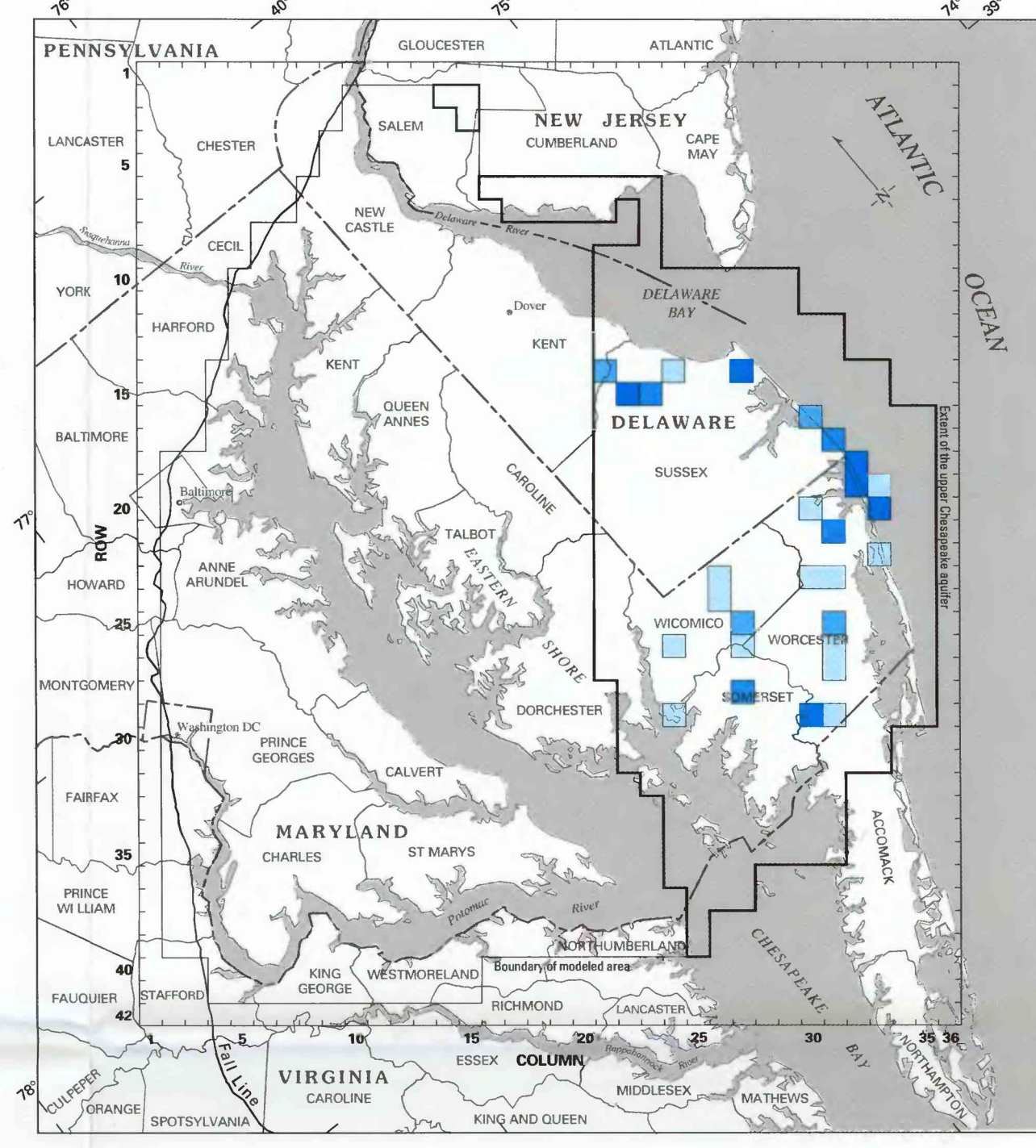
B. Leakage values of the upper Chesapeake confining unit used in model



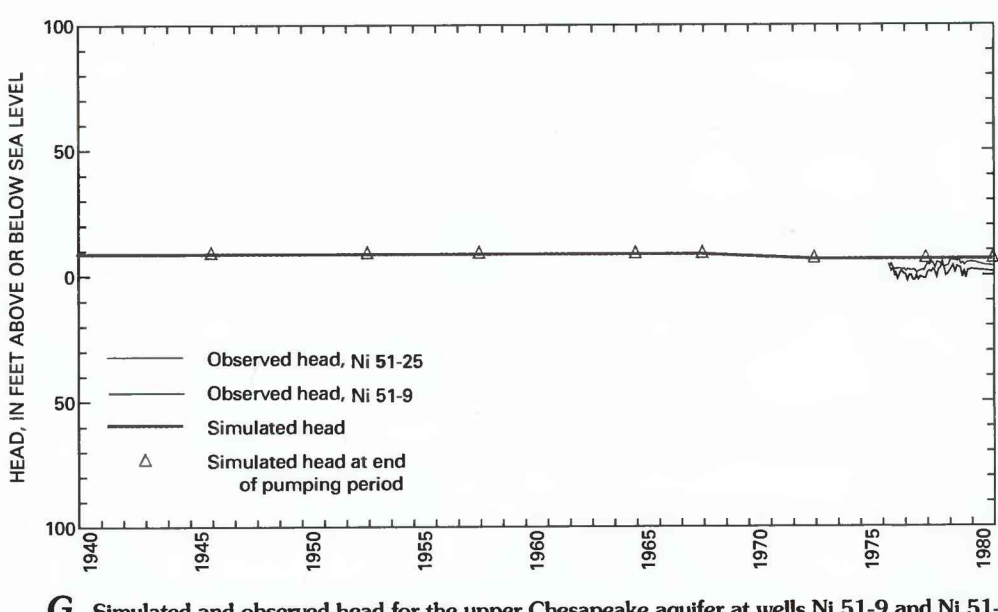
C. Simulated heads of the upper Chesapeake aquifer for prepping conditions



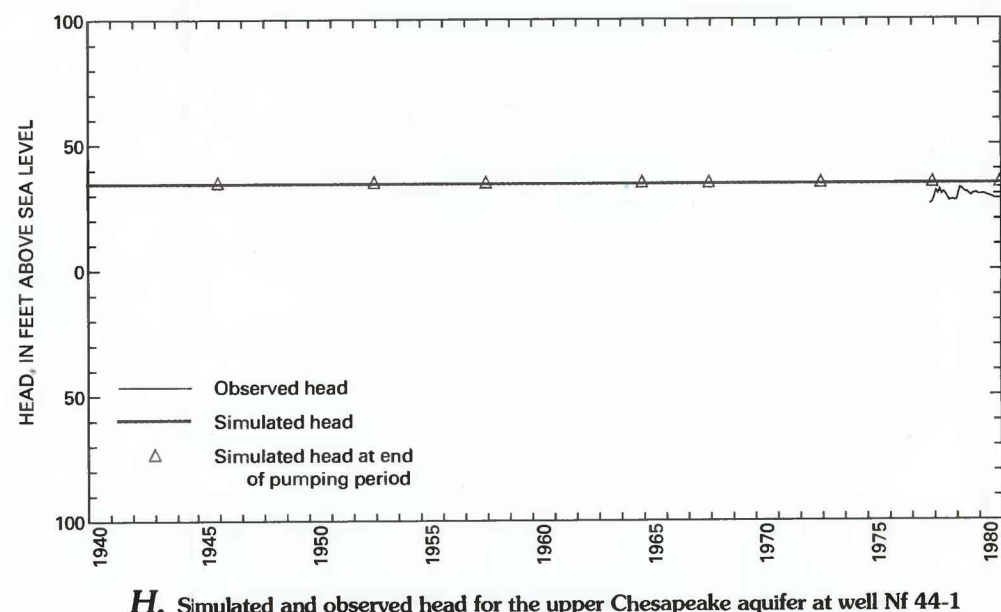
D. Observed heads of the upper Chesapeake aquifer for 1952



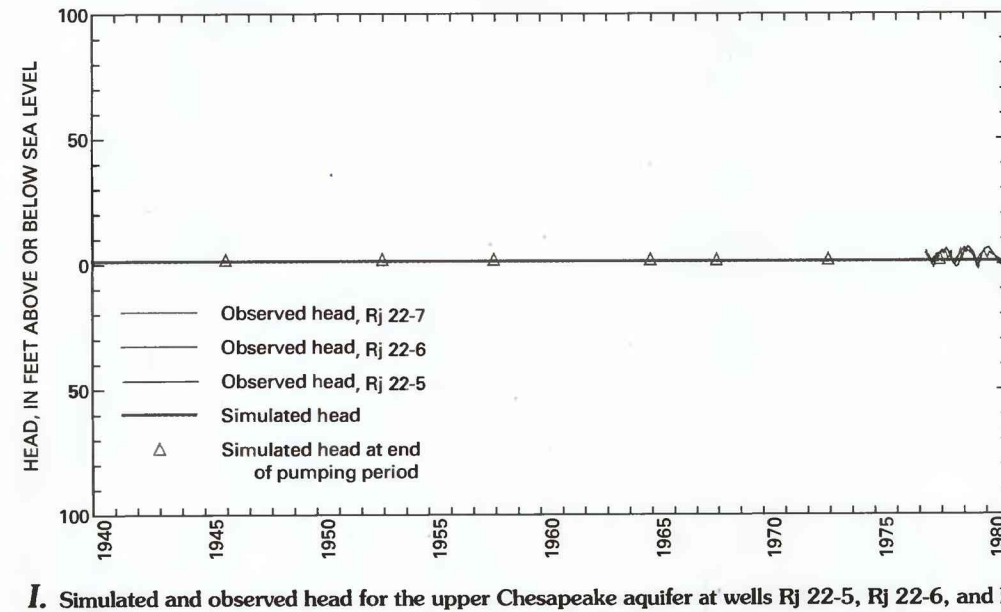
E. Location and magnitude of pumpage (1978-80) for the upper Chesapeake aquifer as used in model



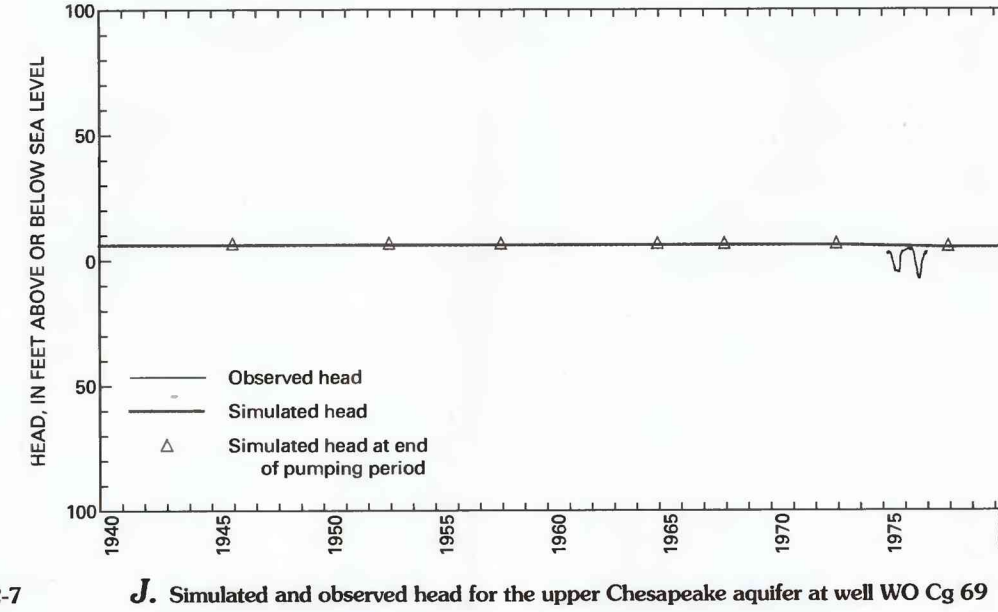
G. Simulated and observed head for the upper Chesapeake aquifer at wells NI 51-9 and NI 51-25



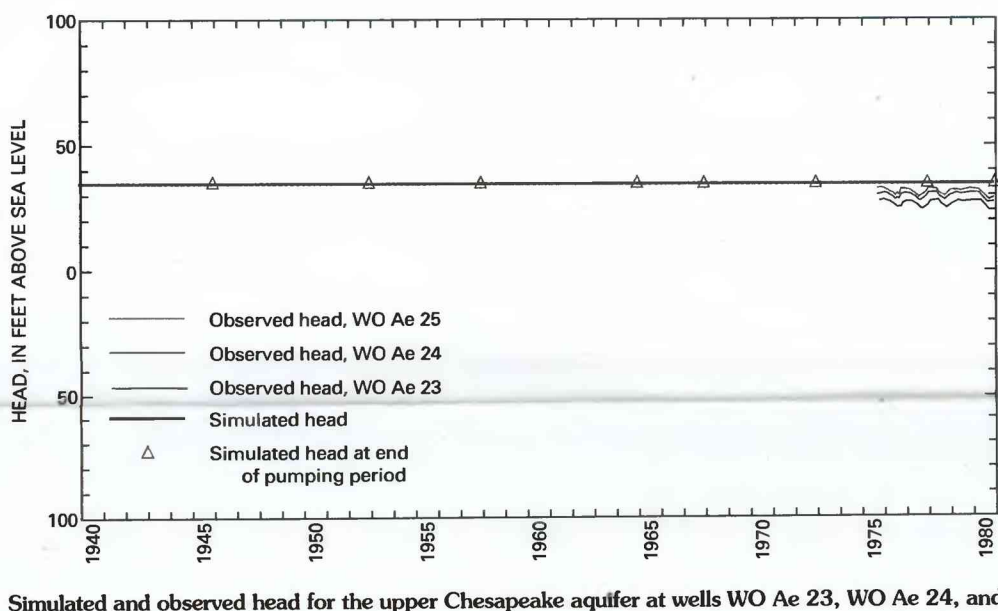
H. Simulated and observed head for the upper Chesapeake aquifer at well NF 44-1



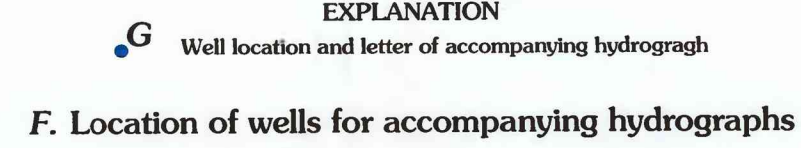
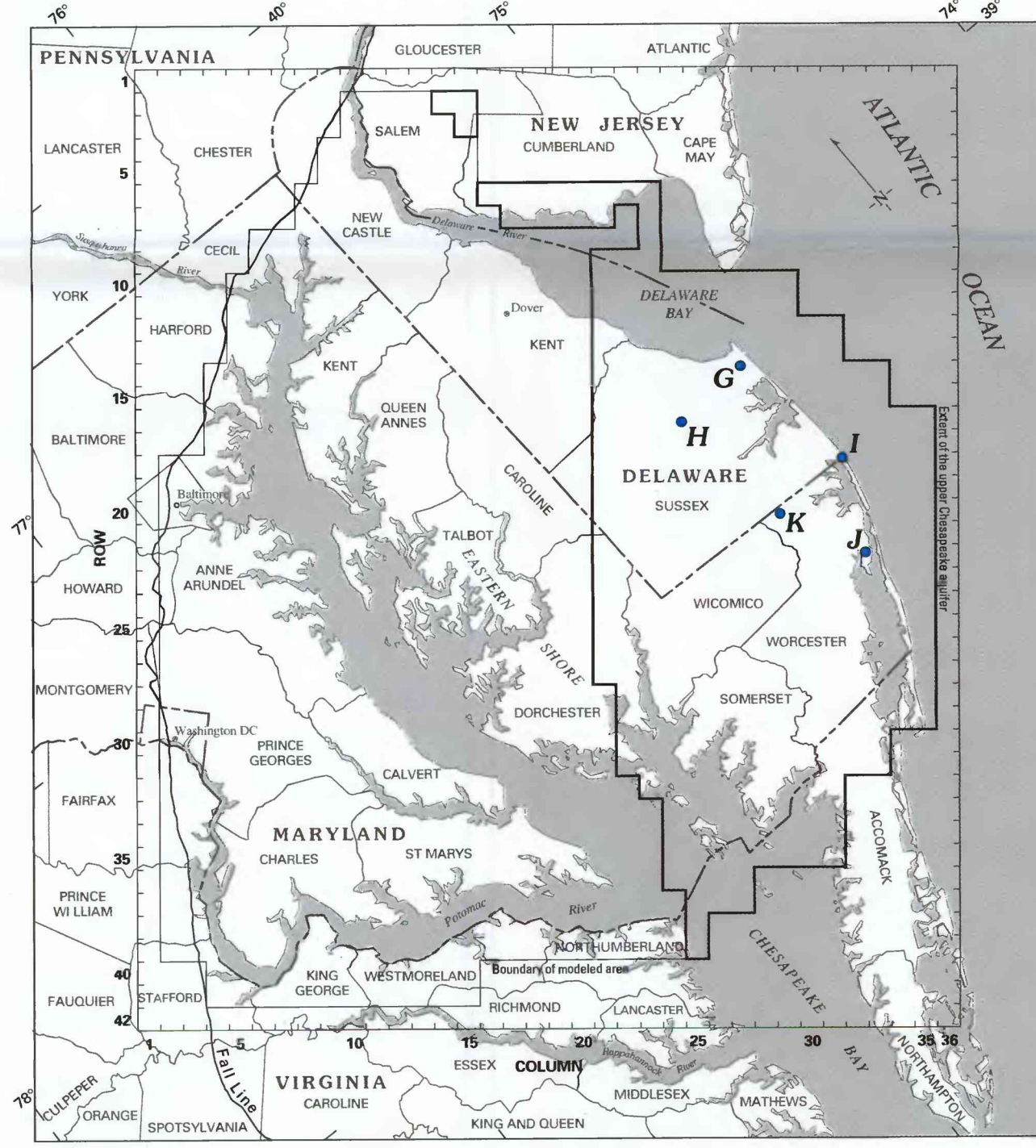
I. Simulated and observed head for the upper Chesapeake aquifer at wells RJ 22-5, RJ 22-6, and RJ 22-7



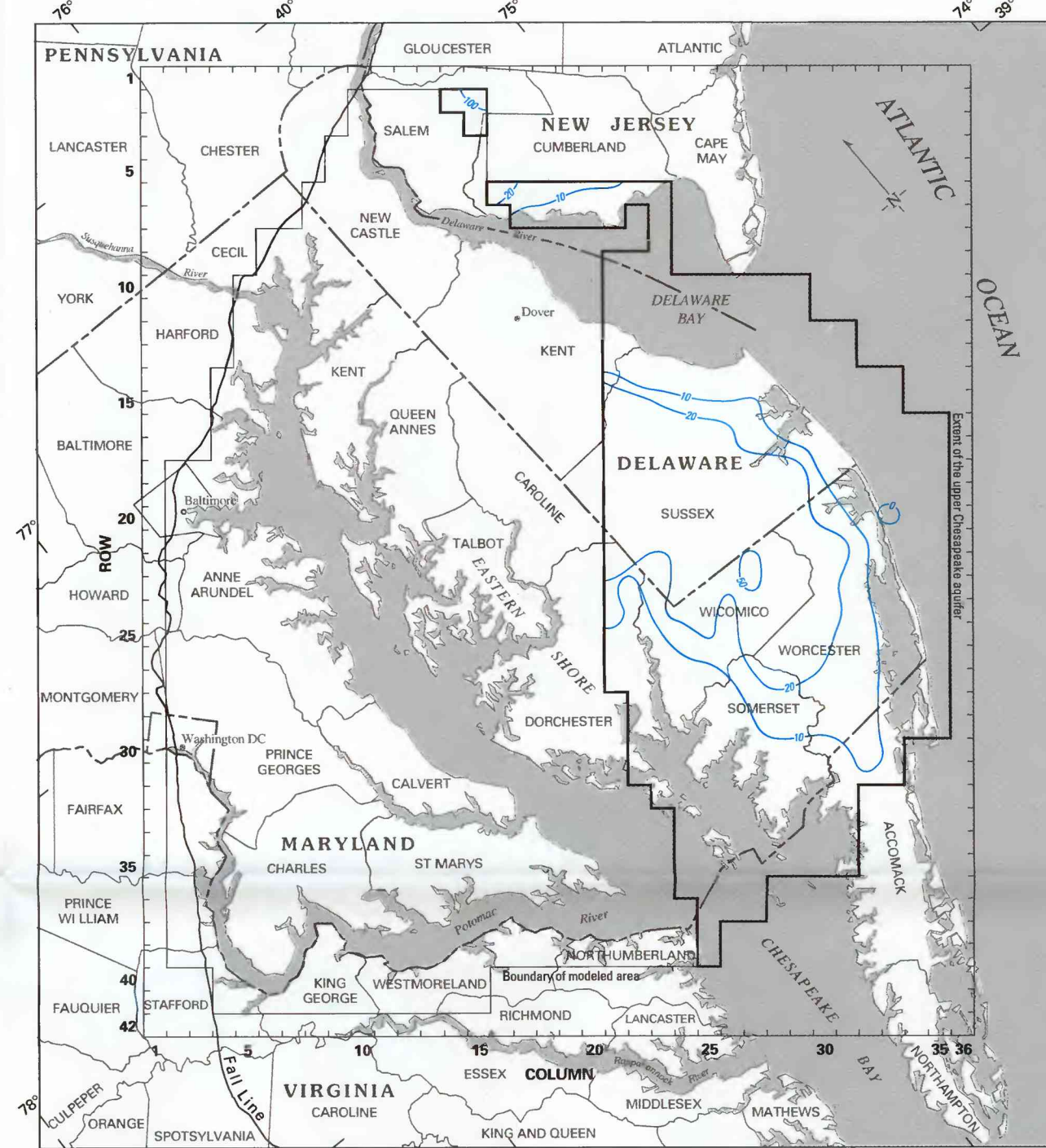
J. Simulated and observed head for the upper Chesapeake aquifer at well WO Cg 69



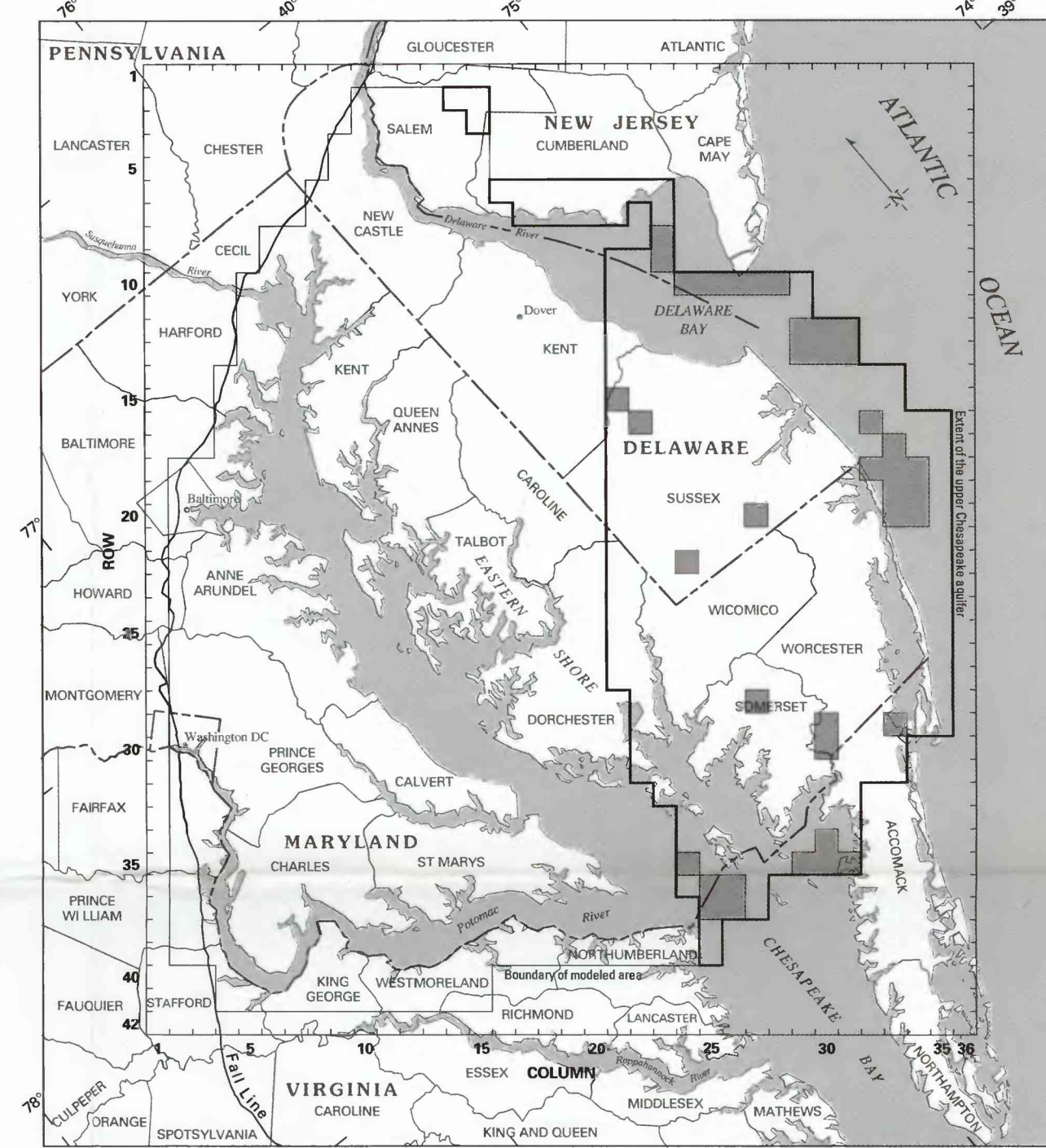
K. Simulated and observed head for the upper Chesapeake aquifer at wells WO Ae 23, WO Ae 24, and WO Ae 25



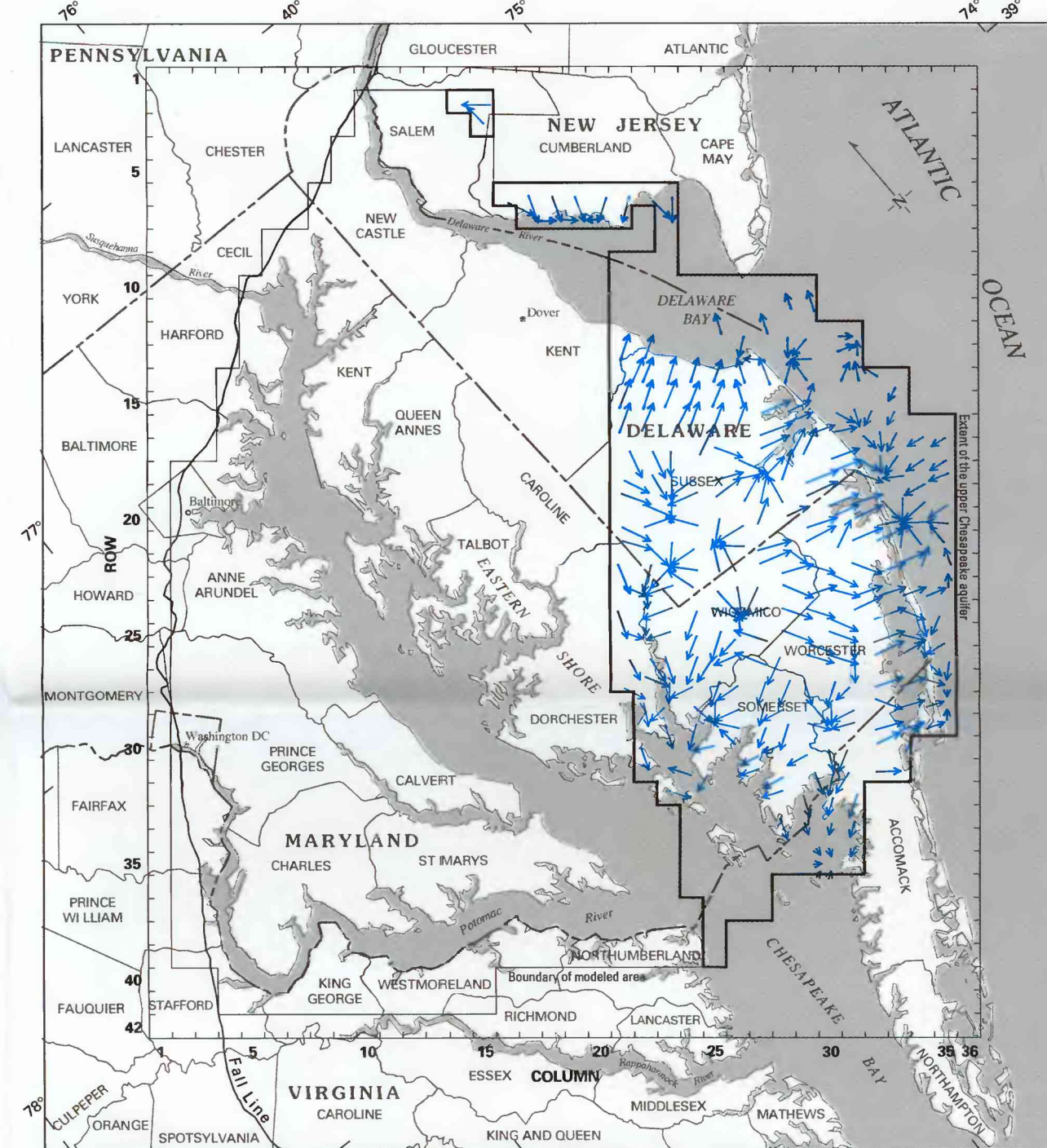
F. Location of wells for accompanying hydrographs



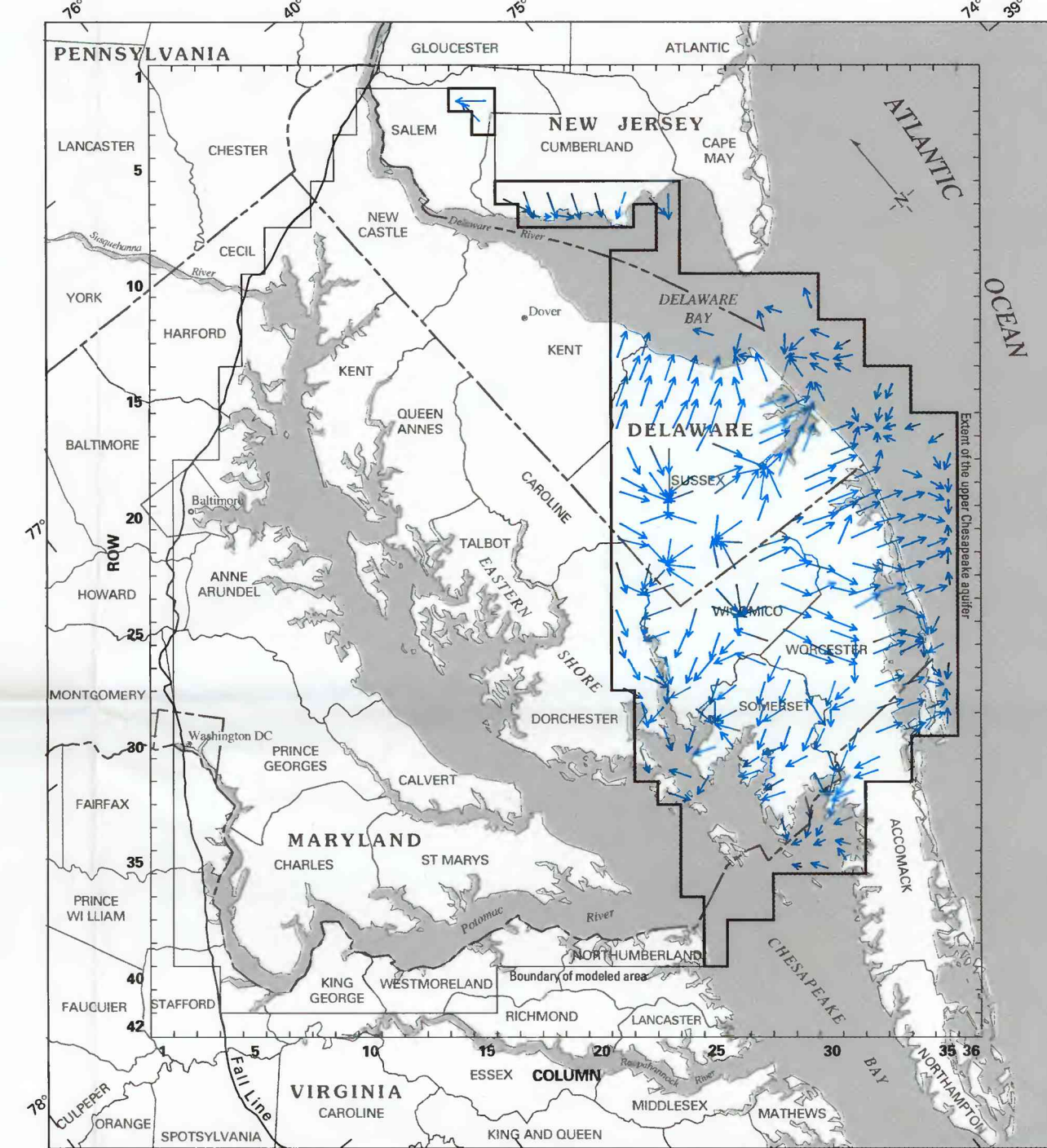
L. Simulated heads of the upper Chesapeake aquifer for pumping period 4, 1949-52



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



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



O. Simulated direction and magnitude of ground-water flow in the upper Chesapeake aquifer during prepping conditions

P. Ground-water budget analysis of the upper Chesapeake aquifer by simulation

Principal sources and sinks	Prepping				Pumping Period 10, 1978-80			
	Source	Sink	Source	Sink	Source	Sink	Source	Sink
	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
Annual ground-water recharge	208.9	60.6	—	—	208.9	62.1	0	—
Surface water	0	0	212.2	62.9	0	0	208.5	62.1
Leakage through confining units	128.7	37.4	124.9	37.0	121.5	36.1	108.4	32.3
Constant flux boundary	6.8	2.0	0.1	<0.1	4.6	1.4	32.4	4.4
Storage	0	0	0	0	<0.1	<0.1	0.1	<0.1
Pumpage	—	—	0	0	—	—	14.0	4.2
Total	344.6	100.0	337.3	100.0	336.1	99.7	255.5	100.0
Percent error	2.1				0.2			

