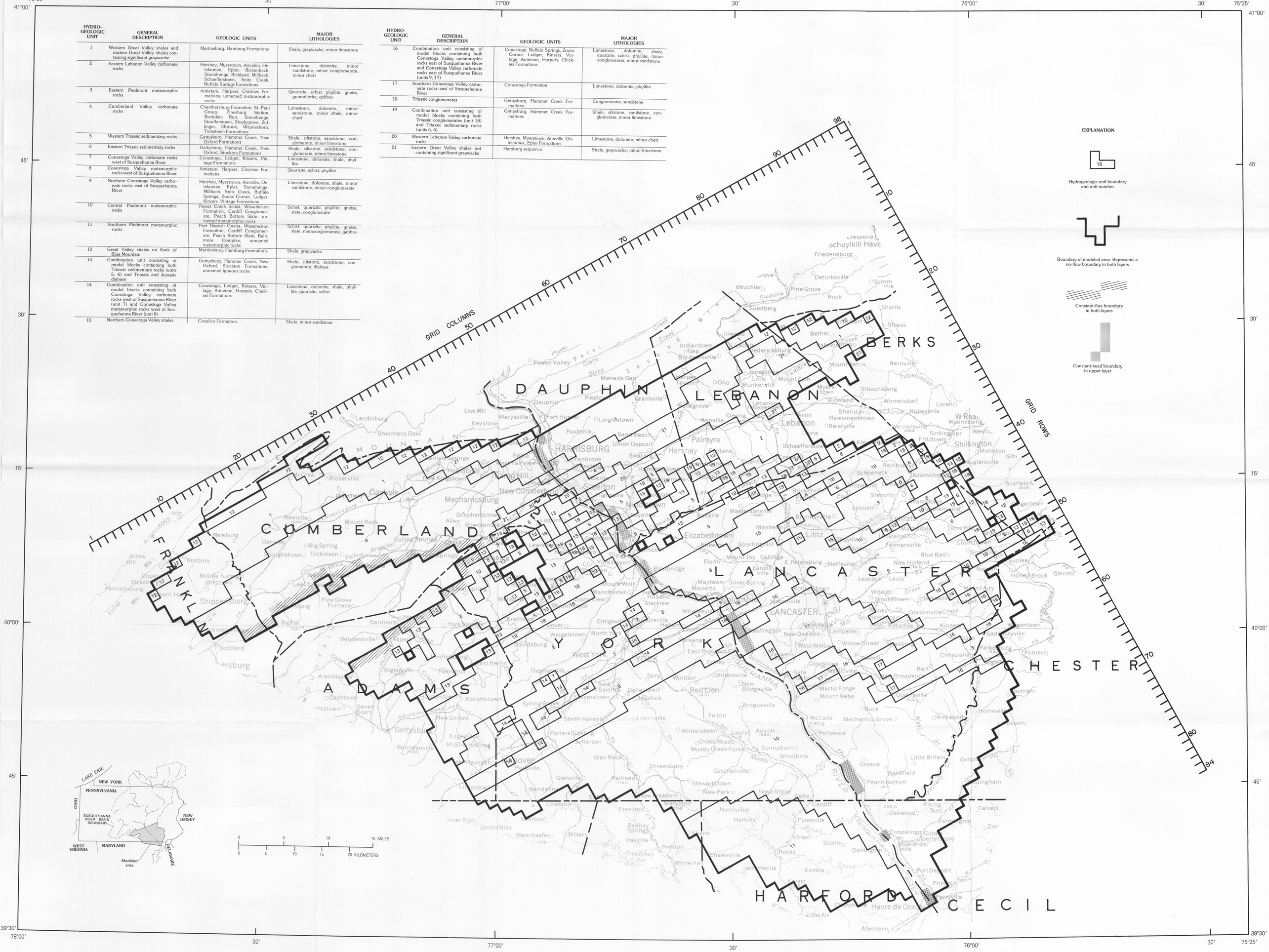
HYDRO-GEOLOGIC UNIT	GENERAL DESCRIPTION	GEOLOGIC UNITS	MAJOR LITHOLOGIES
1	Western Great Valley shales and eastern Great Valley shales containing significant graywacke	Martinsburg, Hamburg Formations	Shale, graywacke, minor limestone
2	Eastern Lebanon Valley carbonate rocks	Hershey, Myerstown, Annville, Ontelaunee, Epler, Rickenbach, Stonehenge, Richland, Millbach, Schaefferstown, Snitz Creek, Buffalo Springs Formations	Limestone, dolomite, minor sandstone, minor conglomerate, minor chert
3	Eastern Piedmont metamorphic rocks	Antietam, Harpers, Chickies Formations, unnamed metamorphic rocks	Quartzite, schist, phyllite, gneiss, granodiorite, gabbro
4	Cumberland Valley carbonate rocks	Chambersburg Formation, St. Paul Group, Pinesburg Station, Rockdale Run, Stonehenge, Stoufferstown, Shadygrove, Zullinger, Elbrook, Waynesboro, Tomstown Formations	Limestone, dolomite, minor sandstone, minor shale, minor chert
5	Western Triassic sedimentary rocks	Gettysburg, Hammer Creek, New Oxford Formations	Shale, siltstone, sandstone, conglomerate, minor limestone
6	Eastern Triassic sedimentary rocks	Gettysburg, Hammer Creek, New Oxford, Stockton Formations	Shale, siltstone, sandstone, conglomerate, minor limestone
7	Conestoga Valley carbonate rocks west of Susquehanna River	Conestoga, Ledger, Kinzers, Vintage Formations	Limestone, dolomite, shale, phyllite
8	Conestoga Valley metamorphic rocks west of Susquehanna River	Antietam, Harpers, Chickies Formations	Quartzite, schist, phyllite
9	Northern Conestoga Valley carbonate rocks east of Susquehanna River	Hershey, Myerstown, Annville, Ontelaunee, Epler, Stonehenge, Millbach, Snitz Creek, Buffalo Springs, Zooks Corner, Ledger, Kinzers, Vintage Formations	Limestone, dolomite, shale, minor sandstone, minor conglomerate
10	Central Piedmont metamorphic rocks	Peters Creek Schist, Wissahickon Formation, Cardiff Conglomerate, Peach Bottom Slate, unnamed metamorphic rocks	Schist, quartzite, phyllite, gneiss, slate, conglomerate
11	Southern Piedmont metamorphic rocks	Port Deposit Gneiss, Wissahickon Formation, Cardiff Conglomerate, Peach Bottom Slate, Baltimore Complex, unnamed metamorphic rocks	Schist, quartzite, phyllite, gneiss, slate, metaconglomerate, gabbro
12	Great Valley shales on flank of Blue Mountain	Martinsburg, Hamburg Formations	Shale, graywacke
13	Combination unit consisting of model blocks containing both Triassic sedimentary rocks (units 5, 6) and Triassic and Jurassic diabase	Gettysburg, Hammer Creek, New Oxford, Stockton Formations, unnamed igneous rocks	Shale, siltstone, sandstone, conglomerate, diabase
14	Combination unit consisting of model blocks containing both Conestoga Valley carbonate rocks west of Susquehanna River (unit 7) and Conestoga Valley metamorphic rocks west of Susquehanna River (unit 8)	Conestoga, Ledger, Kinzers, Vintage, Antietam, Harpers, Chickies Formations	Limestone, dolomite, shale, phyllite, quartzite, schist
15	Northern Conestoga Valley shales	Cocalico Formation	Shale, minor sandstone
16	Combination unit consisting of model blocks containing both Conestoga Valley metamorphic rocks east of Susquehanna River and Conestoga Valley carbonate rocks east of Susquehanna River (units 9, 17)	Conestoga, Buffalo Springs, Zooks Corner, Ledger, Kinzers, Vintage, Antietam, Harpers, Chickies Formations	Limestone, dolomite, shale, quartzite, schist, phyllite, minor conglomerate, minor sandstone
17	Southern Conestoga Valley carbonate rocks east of Susquehanna River	Conestoga Formation	Limestone, dolomite, phyllite
18	Triassic conglomerates	Gettysburg, Hammer Creek Formations	Conglomerate, sandstone
19	Combination unit consisting of model blocks containing both Triassic conglomerates (unit 18) and Triassic sedimentary rocks (units 5, 6)	Gettysburg, Hammer Creek Formations	Shale, siltstone, sandstone, conglomerate, minor limestone
20	Western Lebanon Valley carbonate rocks	Hershey, Myerstown, Annville, Ontelaunee, Epler Formations	Limestone, dolomite, minor chert
21	Eastern Great Valley shales not containing significant graywacke	Hamburg sequence	Shale, graywacke, minor limestone



APPROXIMATION OF HYDROGEOLOGIC UNITS AND BOUNDARIES USED IN MODEL