



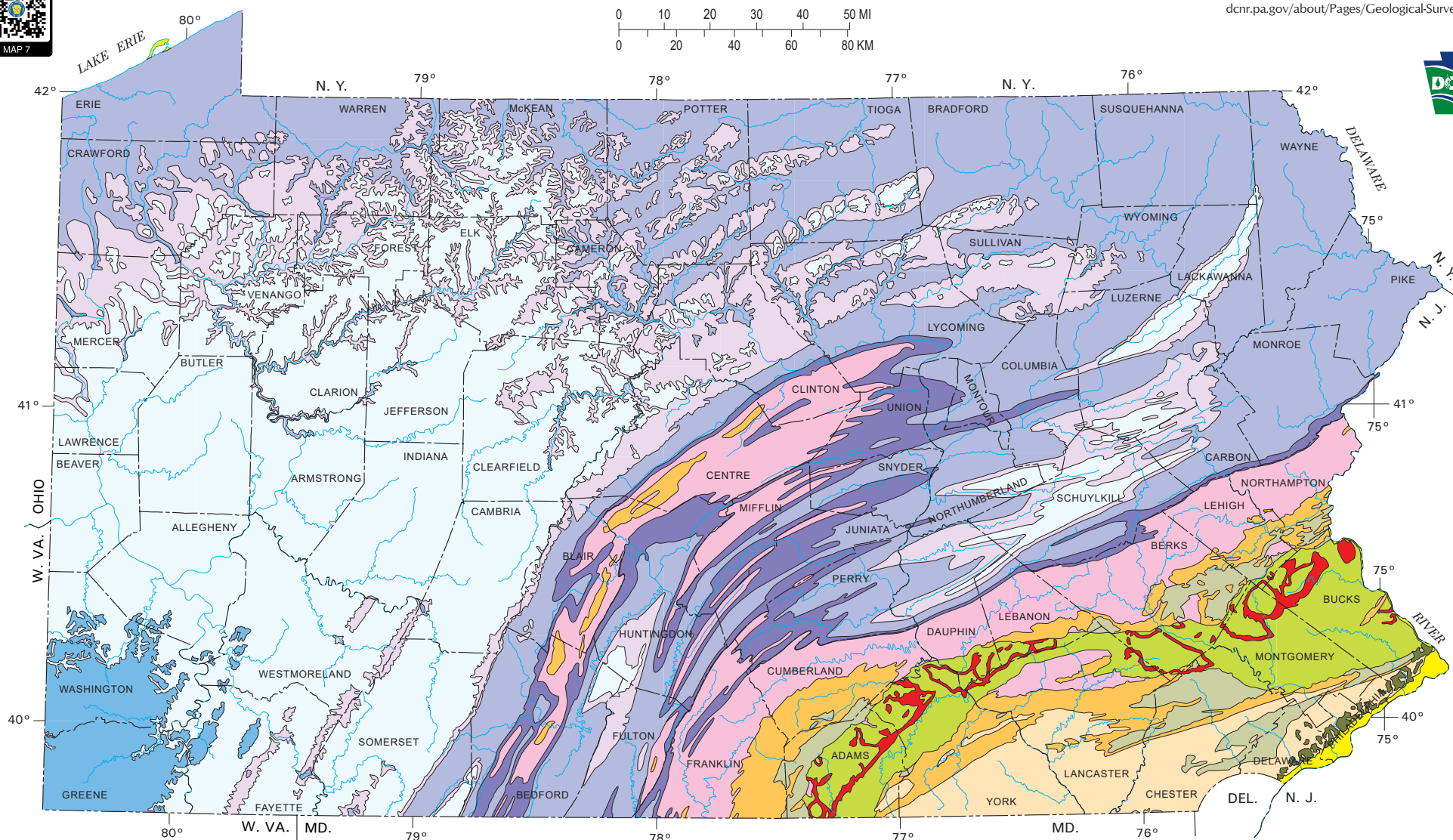
GEOLOGIC MAP OF PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF
CONSERVATION AND NATURAL RESOURCES
BUREAU OF GEOLOGICAL SURVEY
dcnr.pa.gov/about/Pages/Geological-Survey.aspx















SCALE 1:2,000,000

0 10 20 30 40 50 MI
0 20 40 60 80 KM



EXPLANATION

												
QUATERNARY (0–2.6 mil. yrs.) Sand, gravel, and silt. <i>Sand and gravel.</i>	TERTIARY (2.6–66 mil. yrs.) Sand, gravel, silt, and clay. <i>Sand and gravel.</i>		JURASSIC AND TRIASSIC (145–252 mil. yrs.) Red sandstone, shale, and conglomerate (green), intruded by diabase (red). <i>Building stone, iron.</i>	PERMIAN (252–299 mil. yrs.) Cyclic sequences of shale, sandstone, limestone, and coal. <i>Lime, clay.</i>	PENNSYLVANIAN (299–323 mil. yrs.) Cyclic sequences of sandstone, red and gray shale, conglomerate, clay, coal, and limestone. <i>Coal, clay, lime, building stone.</i>	MISSISSIPPIAN (323–359 mil. yrs.) Red and gray sandstone, shale, and limestone. <i>Flagstone, limestone, clay.</i>	DEVONIAN (359–419 mil. yrs.) Red sandstone, gray shale, black shale, limestone, and chert. <i>Flagstone, silica sand, clay, lime.</i>	SILURIAN (419–444 mil. yrs.) Red and gray sandstone, conglomerate, shale, and limestone. <i>Lime, building stone.</i>	ORDOVICIAN (444–485 mil. yrs.) Shale, limestone, dolomite, and sandstone. <i>Slate, limestone, zinc, clay.</i>	CAMBRIAN (485–539 mil. yrs.) Limestone, dolomite, sandstone, shale, quartzite, and phyllite. <i>Lime, building stone.</i>	LOWER PALEOZOIC (444–539 mil. yrs.) Metamorphic rocks; schist, gneiss, quartzite, serpentine, slate, and marble. <i>Building stone, talc.</i>	PRECAMBRIAN (older than 539 mil. yrs.) Gneiss, granite, anorthosite, metabasalt, metarhyolite, and marble. <i>Building stone, graphite, sericite.</i>