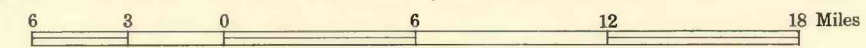


- Allegheny formation
Shale and sandstone with several workable coals
- Pottsville formation
Chiefly coarse-grained hard sandstone and conglomerate with irregular shale beds and some thin coals
- Mauch Chunk formation
Chiefly lumpy red and green shale with green sandstone in east, and Greenbrier limestone in west; contains fossils of Chester age; Loyahanna limestone at bottom
- Pocono formation
Chiefly thick-bedded coarse-grained gray sandstone and conglomerate; Burgoon sandstone at top; some red shale in lower part; contains fossils of Osage age; Berea sandstone and Cuyahoga formation with sub-Olean conglomerate in Warren area; Oswayo formation in Gaines, Elkland, Tioga region
- Catskill formation
Chiefly red to brownish shale, sandstone, and grit; Conewago formation with Salamanca conglomerate lentic and Knapp formation in Warren area; Cattaraugus formation in Gaines-Elkland region
- Chemung formation
Chiefly fossiliferous gray sandy shale and blocky sandstone
- Portage shale and Genesee shale
Portage, dark to light-gray thin platy shale and thin fine-grained argillaceous sandstone; Genesee, black carbonaceous shale; contains mostly flattened, delicate-shelled minute fossils
- Hamilton formation, Marcellus shale, and Onondaga limestone
Hamilton, very fossiliferous olive sandy shale and sandstone; Marcellus, black fossiliferous shale, few fossils; Onondaga, green shale and thin fossiliferous dark cherty limestone
- Oriskany sandstone
Chiefly pure granular sandstone, suitable in places for glass sand, and coarse grit to fine conglomerate, with some sandy fossiliferous limestone, chert, and shale; comprises Ridgely sandstone above, Shriver chert below
- Helderberg limestone
Thick-bedded blue fossiliferous cherty limestone, siliceous limestone, and calcareous shale

- EXPLANATION**
- Salina (Cayuga), Niagara, and Clinton formations
 - Medina and Oneida formations
Includes sandstones of thin Clinton at Susquehanna River and eastward
 - Trenton and Chazy limestones and calciferous sandstones
 - Contact
 - Fault

- CARBONIFEROUS**
- Cayuga formation
Finely laminated limestone and calcareous shale; includes Tonoloway limestone, Wills Creek shale, and McKenzie limestone
 - Clinton formation
Green fossiliferous shale, weathering buff to pink, and thin rusty very fossiliferous sandstones, with beds of workable hematite iron ore; heavy-bedded Keifer sandstone near top; some red shale in eastern and central areas
 - Tuscarora sandstone
Thick-bedded quartzitic white sandstone; red sandstone and shale of the Juniata included in places; quartzose beds suitable for gasifier and sand
 - Juniata formation and Oswego sandstone
Juniata, red sandstone and lumpy shale; Oswego, massive gray sandstone; age undetermined
- ORDOVICIAN**
- Reedsville shale
Dark-gray shale, sandy toward the top; contains graptolites near base; called Coalco shale in southeast; suitable for brick clay; fossils of Eden and Maysville age
 - Trenton, Black River (Rodman), Lowville, and Stones River (Carlisle) limestones
Chambersburg, fossiliferous pure to cherty and impure limestone of Black River age; Stones River, very pure fine-grained drab limestone; Trenton, thin-bedded black limestone
- DEVONIAN**
- Beekmantown limestone
Bellefonte and Nittany dolomites; Axemann and Stonehenge limestones west of Great Valley; some Allentown limestone included in the east
 - Larke dolomite, Mines dolomite, and Gatsburg formation
Lower Ozarkian of Ulrich
 - Warrior and Pleasant Hill limestones
- SILURIAN**

GEOLOGIC MAP OF AN AREA IN CENTRE COUNTY AND PARTS OF ADJACENT COUNTIES
SUSQUEHANNA RIVER BASIN, CENTRAL PENNSYLVANIA



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