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BIBLIOGRAPHY
OF
NORTH AMERICAN GEOLOGY

FOR

1919-1920

BY

JOHN M. NICKLES



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BIBLIOGRAPHY OF NORTH AMERICAN GEOLOGY FOR 1919-1920.

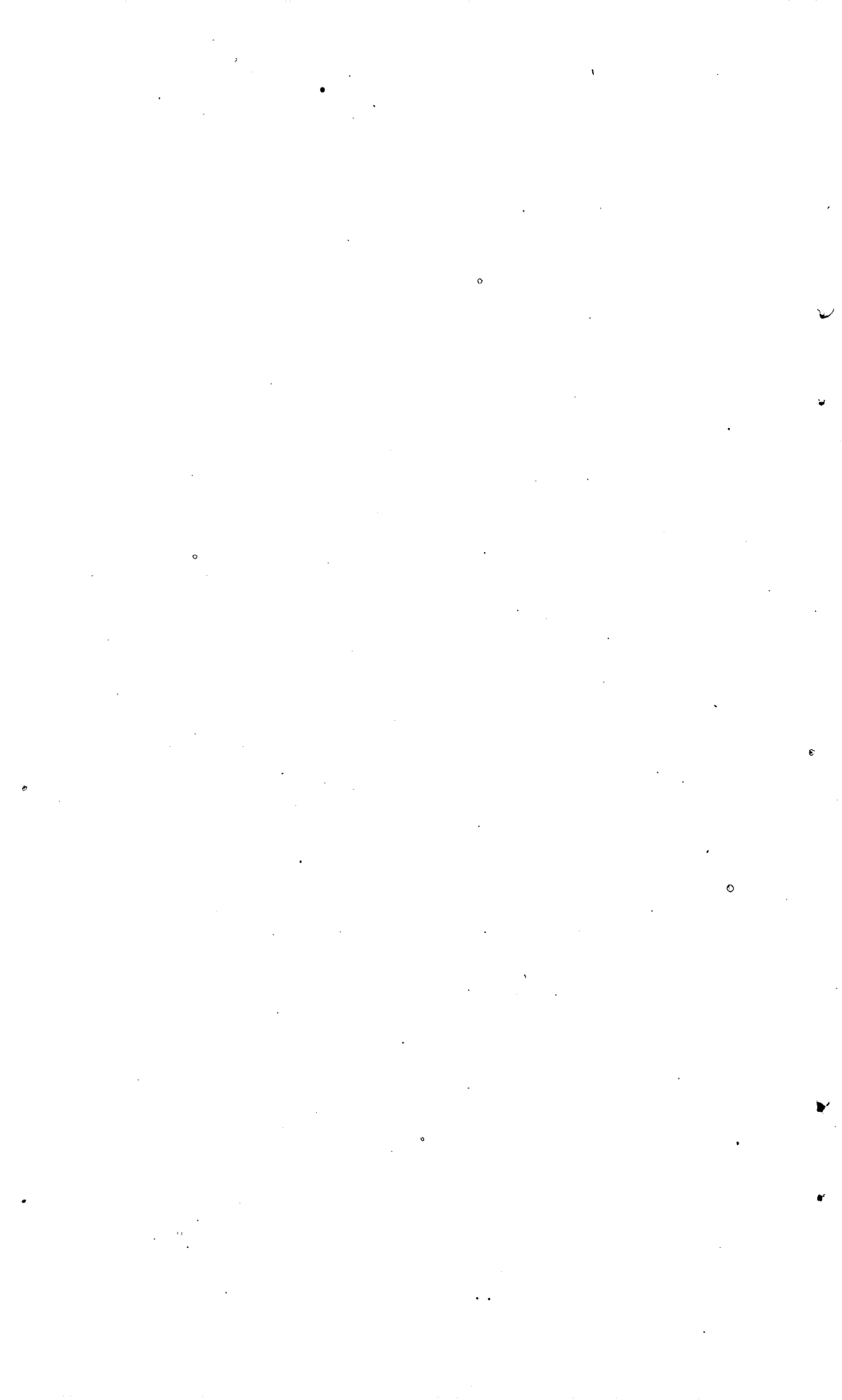
By JOHN M. NICKLES.

INTRODUCTION.

The bibliography of North American geology, including paleontology, petrology, and mineralogy, for the years 1919 and 1920 contains publications on the geology of the Continent of North America and adjacent islands and on Panama and the Hawaiian Islands. It includes textbooks and papers of general character by American authors, but not those by foreign authors, except papers that appear in American publications.

The papers, with full title and medium of publication and explanatory note if the title is not fully self-explanatory, are listed under the names of their authors, which are arranged in alphabetic order. The author list is followed by an index to the literature listed.

The bibliography of North American geology is comprised in the following bulletins of the United States Geological Survey: No. 127 (1732-1892); Nos. 188 and 189 (1892-1900); No. 301 (1901-1905); No. 372 (1906-7); No. 409 (1908); No. 444 (1909); No. 495 (1910); No. 524 (1911); No. 545 (1912); No. 584 (1913); No. 617 (1914); No. 645 (1915); No. 665 (1916); No. 684 (1917); and No. 698 (1918).



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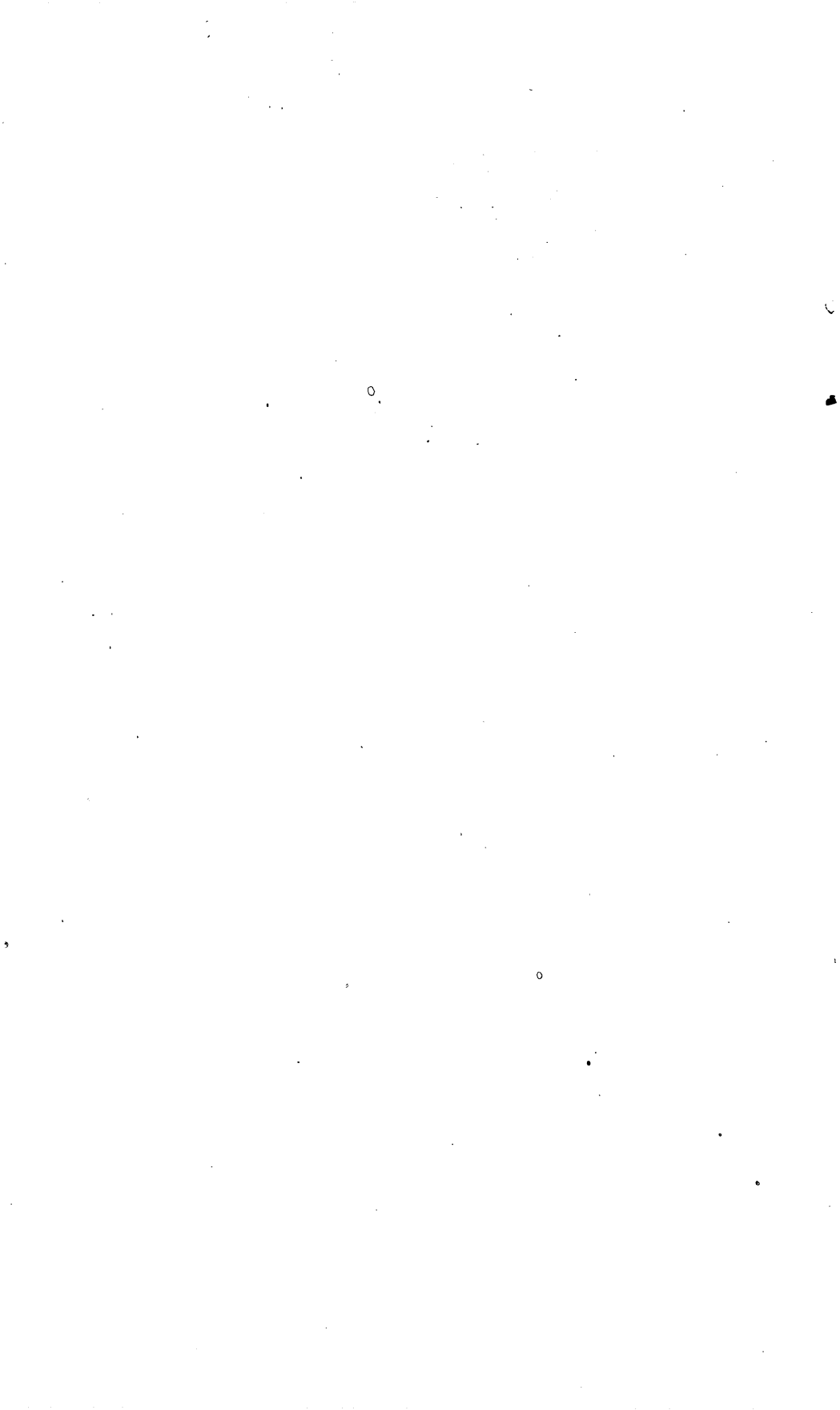
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- Americus limestone, Pennsylvanian, Kansas : Snider, 1736.
- Americus limestone member, Pennsylvanian, Kansas : Moore, 1346.
- Ames limestone, Pennsylvanian, Maryland : Swartz, 1804.
- Ames limestone, Pennsylvanian, Ohio : Stout, 1794.
- Amisk series, pre-Cambrian, Manitoba : Bruce, 208.
- Amisk volcanics, pre-Cambrian, Manitoba : Hanson, 744.
- Amsden formation, Carboniferous, Wyoming : Collier, 389.
- Anacacho limestone, Cretaceous, Texas : Udden, 1880.
- Andrews schist, Cambrian, Georgia : McCallie, 1159.
- Angola shale, Devonian, New York : Husakof and Bryant, 884.
- Anian period, Proterozoic, New Mexico : Keyes, 993.
- Animikean, pre-Cambrian, Ontario : Miller and Knight, 1301, 1302.
- Antietam sandstone, Cambrian, Maryland : Bassler, 90.
- Antonio terrane, Proterozoic, New Mexico : Keyes, 993.
- Antonito terrane, Permian, New Mexico : Keyes, 993.
- Anvil member, pre-Cambrian, Wisconsin and Michigan : Hotchkiss, 865.
- Apishapa shale, Cretaceous, New Mexico : Garrett, 640.
- Apishapa terrane, Cretaceous, New Mexico : Keyes, 993.
- Apison shale, Cambrian, Georgia : McCallie, 1159.
- Aquidneck shales, Carboniferous, Rhode Island : Perkins, 1462.
- Arago formation, Eocene, Oregon : Smith and Packard, 1728.
- Arapahoe beds, Cretaceous, Colorado : Henderson, 795.
- Arapahoe period, Cenozoic (Tertiary), New Mexico : Keyes, 993.
- Arbuckle limestone, Cambrian and Ordovician, Oklahoma : Decker, 483.
- Archuleta terrane, Eocene, New Mexico : Keyes, 993.
- Arctomys formation, Cambrian, Alberta : Walcott, 1928.
- Arecibo formation, Oligocene, Porto Rico : Hodge, 837.

- Arecibo formation, Tertiary, Porto Rico: Berkey, 124; Hubbard, 877; Maury, 1248; Semmes, 1655.
- Arlkaere formation, Miocene, South Dakota: O'Harra, 1389.
- Arkadelphia clay, Cretaceous, Arkansas: Miser, 1319.
- Arkansas novaculite, Devonian, Arkansas: Miser, 1319.
- Armendaris terrane, Ordovician, New Mexico: Keyes, 993.
- Armuchee chert, Devonian, Georgia: McCallie, 1159.
- Arnheim, Ordovician, Kentucky: Miller, 1293.
- Arnheim limestone, Ordovician, Tennessee: Butts, 258.
- Arriban series, Miocene, New Mexico: Keyes, 993.
- Ashokan formation, Devonian, New York: Grabau, 685.
- Aspen shale, Cretaceous, Wyoming: Schultz, 1639.
- Astoria shales, Oligocene, Oregon: Harrison and Eaton, 761.
- Athabaska series, pre-Cambrian (?), Canada: Alcock, 14.
- Atchison group, Carboniferous, Iowa: Smith, 1714.
- Atoka formation, Pennsylvanian, Arkansas: Miser, 1319.
- Atoka formation, Pennsylvanian, Oklahoma: Bloesch, 155; Snider, 1736.
- Attawapiskat coral reef, Silurian, Canada: Savage and Van Tuyl, 1603.
- Attleboro sandstones, Carboniferous, Rhode Island: Perkins, 1462.
- Austin chalk, Cretaceous, Texas: Dumble, 524; Snider, 1736; Udden, 1880.
- Austin chalk formation, Cretaceous, Texas: Shuler, 1696.
- Austin formation, Cretaceous, Texas: Sellards, 1650, 1653.
- Austin ("Annona") chalk, Cretaceous, Arkansas: Miser, 1319.
- Aux Vases sandstone, Mississippian, Illinois: Weller, 1974.
- Aux Vases sandstone, Mississippian, Missouri: Dake, 441.
- Avant limestone, Carboniferous, Oklahoma: Goldman, 666; Hopkins and Powers, 854.
- Avant limestone, Pennsylvanian, Oklahoma: Ross, 1578.
- Avondale volcanics, pre-Cambrian, Newfoundland: Buddington, 226.
- Aztecan series, Eocene, New Mexico: Keyes, 993.
- Backbone limestone, Devonian, Illinois: Savage, 1605.
- "Back-bone" limestone, Devonian, Illinois: Savage, 1604.
- Bad River cherty dolomite, pre-Cambrian, Wisconsin and Michigan: Hotchkiss, 865.
- Balley limestone, Devonian, Illinois: Savage, 1604, 1605.
- Balley limestone, Devonian, Missouri: Dake, 441.
- Baitoa formation, Miocene, Dominican Republic: Cooke, 400.
- Baltimore gneiss, pre-Cambrian, Maryland, Pennsylvania, and Delaware: Bascom and Miller, 86.
- Bandera shale, Pennsylvanian, Kansas, and Oklahoma: Snider, 1736.
- Bandera shale member, Pennsylvanian, Kansas: Moore, 1346.
- Banff (Upper) formation, Triassic, Alberta: Rose, 1576.
- Bangor limestone, Carboniferous, Georgia: McCallie, 1159.
- Bar Harbor series, Mount Desert Island, Maine: Bascom, 87.
- Barnes conglomerate, Cambrian, Arizona: Ransome, 1507.
- Barranquitas-Cayey series, Comanchean, Porto Rico: Hodge, 837.
- Barstow formation, Tertiary, California: Merriam, 1264.
- Bartlesville sand, Pennsylvanian, Kansas: Boughton, 170; Moore, 1346.
- Bartlett Island series, Mount Desert Island, Maine: Bascom, 87.
- "Barton Beds," Silurian, Ontario: Williams, 2034.
- Bashi formation, Tertiary, Alabama: Brantley, 191.
- Bas Obispo formation, Eocene (?), Canal Zone: MacDonald, 1170.
- Bass Island series, Silurian, Ontario: Williams, 2034.
- Batesville sandstone, Mississippian, Arkansas: Miser, 1319, 1320.
- Baxter shale, Cretaceous, Wyoming: Schultz, 1639.
- Beale diorite, Jurassic (?), British Columbia: Dolmage, 506.
- Bear Branch member, Devonian, Tennessee: Dunbar, 525.
- Bearpaw formation, Cretaceous, Alberta: Allan, 20; Slipper, 1712; Stewart, 1766.
- Bearpaw shale, Cretaceous, Montana: Bowen, 171; Hancock, 734.
- Bear Pond schist, pre-Cambrian, New York: Alling, 28.
- Beaumont clays, Pleistocene, Texas: Dumble, 524.
- Beaumont formation, Quaternary, Texas: Hay, 767.
- Beauvais sandstone, Devonian, Missouri: Dake, 441.
- Beaver Bend limestone, Mississippian, Indiana: Malott, 1205; Malott and Thompson, 1206.
- Bechler conglomerate, Cretaceous (?), Idaho: Mansfield, 1216.
- Beckwith formation, Jurassic, Wyoming: Schultz, 1639.
- Becraft limestone, Devonian, New York: Jones, 951.
- Bedford clay, Pennsylvanian, Ohio: Stout, 1794.

- Bedford shale, Mississippian, Kentucky : Miller, 1293.
- Bedford shale, Mississippian, Ohio : Decker, 483.
- Beech Creek limestone, Mississippian, Indiana : Malott, 1205 ; Malott and Thompson, 1206.
- Beech Mountain paramphibolite, pre-Cambrian, New York : Ailing, 28.
- Beechwood member, Devonian, Kentucky : Miller, 1293.
- Beekmantown limestone, Ordovician, Maryland : Bassler, 90.
- Beekmantown limestone, Ordovician, New York : Decker, 483.
- Beekmantown (Ogdensburg) dolomite, Ordovician, New York : Chadwick, 310.
- Bella terrane, Devonian, New Mexico : Keyes, 993.
- Bellaire sandstone, Pennsylvanian, Ohio : Stout, 1794.
- Bellevue, Ordovician, Kentucky : Miller, 1293.
- Bell Mountain sandstone member, Cretaceous, New Mexico : Winchester, 2061.
- Belly River formation, Cretaceous, Alberta : Stewart, 1766.
- Belly River series, Cretaceous, Alberta : Slipper, 1712.
- Belt series, Algonkian, Idaho : Jones, 944.
- Bend formation, Carboniferous, Texas : Girty, 659.
- Bend formation, Pennsylvanian, Texas : Udden, 1880.
- Bend series, Carboniferous, Texas : Girty and Moore, 660 ; Udden, 1887.
- Bend series, Pennsylvanian, Texas : Matteson, 1231 ; Moore, 1344 ; Plummer, 1475.
- Bend (Lower) shale, Carboniferous, Texas : Udden, 1887.
- Bend (Lower) shale, Mississippian, Texas : Girty, 659 ; Matteson, 1231.
- Bend (Lower) shale, Pennsylvanian, Texas : Moore, 1344 ; Plummer, 1475.
- Bennett formation, pre-Cambrian, Quebec : Knox, 1030.
- Benson bed, Ordovician, Kentucky : Miller, 1293.
- Benton formation, Cretaceous, Alberta : Rose, 1576 ; Stewart, 1766.
- Benton formation, Cretaceous, Colorado : Henderson, 795.
- Benton formation, Cretaceous, Kansas : Moore, 1346 ; Snider, 1736.
- Benton shale, Cretaceous, North Dakota : Leonard, 1082.
- Benwood limestone, Pennsylvanian, Ohio : Stout, 1794.
- Bernalillian series, Permian, New Mexico : Keyes, 993.
- Berea grit, Carboniferous, Kentucky : Jilison, 918.
- Berea sandstone, Mississippian, Kentucky : Miller, 1293.
- Berenda terrane, Devonian, New Mexico : Keyes, 993.
- Berne conglomerate, Mississippian, Ohio : Miller, 1293.
- Bertie waterlime formation, Silurian, Ontario : Williams, 2034.
- Bertram beds, Devonian, Iowa : Norton, 1881.
- Berwick gneiss, Carboniferous (?), Maine and New Hampshire : Wandke, 1943.
- Bethany Falls limestone, Pennsylvanian, Kansas : Snider, 1736.
- Bethany Falls limestone (Earlham), Pennsylvanian, Iowa : Tilton, 1846.
- Bethany Falls limestone member, Pennsylvanian, Kansas : Moore, 1346.
- Bethel sandstone, Mississippian, Illinois : Weller, 1974 ; Weller *et al.*, 1973.
- Bethel, Mississippian, Kentucky : Miller, 1293.
- Big Basin sandstone, Permian, Kansas : Snider, 1736.
- Big Basin sandstone member, Permian, Kansas : Moore, 1346.
- Big Bend gravels, Pleistocene, Pennsylvania : Williams, 2032.
- Big Blue group, Permian, Kansas : Moore, 1346 ; Snider, 1736.
- Bigby substage, Ordovician, Kentucky : Miller, 1293.
- Bigby formation, Ordovician, Tennessee : Galloway, 633.
- Bigfork chert, Ordovician, Arkansas : Miser, 1319.
- Bigheart sandstone, Carboniferous, Oklahoma : Hopkins and Powers, 854.
- Bigheart sandstone, Pennsylvanian, Oklahoma : Goldman and Robinson, 667.
- Bighorn dolomite, Ordovician, Wyoming : Collier, 389.
- Big Spruce Knob sandstone, Mississippian : West Virginia : Reger, 1528.
- Big Spruce Knob shale, Mississippian, West Virginia : Reger, 1528.
- Bingen formation, Cretaceous, Arkansas : Miser, 1319.
- Birch Creek limestone, Carboniferous, Oklahoma : Hopkins and Powers, 854.
- Birch Creek schist, pre-Ordovician, Alaska : Capps, 291.
- Birch Lake sandstone, Cretaceous, Alberta : Slipper, 1712.
- Bird Creek limestone, Pennsylvanian, Oklahoma : Bowen *et al.*, 172 ; Heald, 779 ; Heald and Mather, 780.
- Birdsong formation, Devonian, Tennessee : Dunbar, 525.
- Birmingham shale, Pennsylvanian, Ohio : Stout, 1794.
- Bisher member of the West Union formation, Silurian, Ohio : Foerste, 598, 599.
- Bishop conglomerate, Tertiary or Quaternary, Wyoming : Schultz, 1639.
- Biwabik formation, pre-Cambrian, Minnesota : Broderick, 197, 198 ; Grout and Broderick, 716.
- Blackhand conglomerate, Mississippian, Kentucky : Miller, 1293.

- Black River group, Ordovician, Tennessee: Galloway, 633.
- Black River limestone, Ordovician, New York: Clark, 345.
- Blacksmith formation, Cambrian, Idaho: Mansfield, 1211.
- Blair formation, Cretaceous, Wyoming: Schultz, 1639.
- Blairmore formation, Cretaceous, Alberta: Rose, 1575, 1576; Slipper, 1712; Stewart, 1766.
- Blakely sandstone, Ordovician, Arkansas: Miser, 1319.
- Blaylock sandstone, Silurian, Arkansas: Miser, 1319.
- Bloomfield limestone, Pennsylvanian, Ohio: Stout, 1794.
- Bloomington formation, Cambrian, Idaho: Mansfield, 1211.
- Boyd shale, Pennsylvanian, Arkansas: Miser, 1319.
- Bluebell dolomite, Ordovician, Utah: Lindgren and Loughlin, 1105.
- Bluebird dolomite, Cambrian, Utah: Lindgren and Loughlin, 1105; Wichman, 2024.
- Bluefield shale, Mississippian, Virginia: Harnsberger, 749.
- Bluestone formation, Mississippian, Virginia: Harnsberger, 749.
- Boggy formation, Pennsylvanian, Oklahoma: Bloesch, 155.
- Boggy shale, Pennsylvanian, Oklahoma: Snider, 1736.
- Boggs member, Pennsylvanian, Ohio: Stout, 1794.
- Bohio conglomerate, Oligocene, Panama Canal Zone: MacDonald, 1170; MacDonald *et al.*, 1171; Vaughan, 1910.
- Bois d'Arc limestone, Devonian, Oklahoma: Decker, 483.
- Bolin Creek member, Cambrian, Missouri: Dake, 441.
- Bolivar fire clay, Pennsylvanian, West Virginia: Reger, 1528.
- Bonaventure conglomerate, Devonian, Quebec: Clarke, 356.
- Bone Valley, Pliocene, Florida: Sellards, 1647.
- Bone Valley formation, Tertiary, Florida: Sellards, 1648.
- Bonnerette formation, Cambrian, Missouri: Dake, 441.
- Boone chert, Mississippian, Arkansas: Miser, 1320.
- Boone formation, Carboniferous, Oklahoma: Berger, 123.
- Boone formation, Mississippian, Arkansas: Miser, 1319.
- Boone formation, Mississippian, Oklahoma: Berger, 123; Snider, 1736.
- Boundary argillite, Paleozoic, Washington: Weaver, 1970.
- Bowhan sandstone, Pennsylvanian, Oklahoma: Goldman and Robinson, 667.
- Bozeman beds, Tertiary, Rocky Mountain region: Keyes, 998.
- Brandon lignite, Tertiary, Vermont: Berry, 133.
- Brannon bed, Ordovician, Kentucky: Miller, 1293.
- Brandy Run sandstone, Mississippian, Indiana: Malott, 1205; Malott and Thompson, 1206.
- Brandywine formation, Cretaceous, Maryland and Delaware: Bascom and Miller, 86.
- Brassfield formation, Silurian, Ohio: Foerste, 598.
- Brassfield limestone, Silurian, Arkansas: Miser, 1319, 1320.
- Brassfield stage, Silurian, Kentucky: Miller, 1293.
- Brasstown schist, Cambrian, Georgia: McCallie, 1159.
- Brazer limestone, Mississippian, Idaho: Mansfield, 1211, 1216.
- Brazos sandstone, Pennsylvanian, Texas: Plummer, 1475.
- Breckenridge formation, Pennsylvanian, Texas: Plummer, 1475.
- Breckenridge limestone, Pennsylvanian, Texas: Snider, 1736.
- Brentwood limestone member, Pennsylvanian, Arkansas: Miser, 1319.
- Bridgeburg horizon, Silurian, New York: Williams, 2034.
- Bridger formation, Tertiary, Wyoming: Schultz, 1639.
- Brier slate, pre-Cambrian, Michigan: Allen, 25.
- Brigham formation, Cambrian, Idaho: Mansfield, 1211.
- Britannia formation, Devon-Carboniferous (?), British Columbia: Schofield, 1616.
- Broadback series, pre-Cambrian, Quebec: Cooke, 401.
- Brock series, pre-Cambrian, Quebec: Cooke, 401.
- Brookline conglomerate member, Permian-Carboniferous, Massachusetts: Sayles, 1606.
- Brookville clay, Pennsylvanian, Ohio: Stout, 1794.
- Brownstown marl, Cretaceous, Arkansas: Miser, 1319.
- Brownstone sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Brule formation, Oligocene, South Dakota: O'Harra, 1389.
- Brush Creek limestone, Pennsylvanian, Maryland: Swartz, 1804.
- Brush Creek limestone, Pennsylvanian, Ohio: Stout, 1794.
- Bryant limestone, Ordovician, Missouri: Foerste, 603.
- Buchanan gravels, Pleistocene: Baker, 56.
- Buckhorn limestone, Utah: Wichman, 2024.
- Buckingham series, pre-Cambrian, Quebec: Wilson, 2051.

- Buck Point sandstone, Pennsylvanian, Oklahoma: Robinson and Mills, 1559.
- Bucks Bridge mixed beds, Ordovician, New York: Chadwick, 310.
- Buda formation, Cretaceous, Texas: Sellards, 1653.
- Buda limestone, Cretaceous, Texas: Christner and Wheeler, 339; Dumble, 524; Snider, 1736; Udden, 1880.
- Buffalo cement bed, Silurian, New York: Williams, 2034.
- Buffalo sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Buffalo shales, Ordovician, Missouri: Foerste, 603.
- Buffalo Wallow formation, Mississippian, Indiana: Malott and Thompson, 1206.
- Buffalo Wallow, Mississippian, Kentucky: Miller, 1293.
- Bulla conglomerate, Miocene, Dominican Republic: Cooke, 400.
- Bullhead Mountain formation, Cretaceous, British Columbia: Stewart, 1767.
- Bunger formation, Pennsylvanian, Texas: Plummer, 1475.
- Burgen sandstone, Ordovician, Oklahoma: Snider, 1736.
- Burgess sand, Pennsylvanian, Kansas: Moore, 1346.
- Burkė formation, Algonkian, Idaho: Jones, 944.
- Burlingame limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Burlington limestone, Mississippian, Illinois: Coryell, 410.
- Burlingame limestone, Pennsylvanian, Kansas: Snider, 1736.
- Burlington limestone (Osagian), Mississippian, Missouri: Branson, 190.
- Burro terrane, Cambrian, New Mexico: Keyes, 993.
- Buxton formation, Pennsylvanian, Oklahoma: Snider, 1736.
- Byer, Mississippian, Ohio: Miller, 1293.
- Bynam marl, Tertiary, Mississippi: Lowe, 1138.
- Cabot Head shale member, Silurian, Ontario: Williams, 2034.
- Cache Creek series, Carboniferous, British Columbia: Reinecke, 1538.
- Caddell beds, Tertiary, Texas: Dumble, 524.
- Caimito formation, Oligocene, Canal Zone: MacDonald, 1170; Vaughan, 1910.
- Cathoun shale, Pennsylvanian, Kansas: Snider, 1736.
- Cathoun shale member, Pennsylvanian, Kansas: Moore, 1346.
- Callaway limestone, Devonian, Missouri: Branson, 190.
- Caloosahatchee formation, Pliocene, Florida: Sellards, 1647.
- Chloosahatchee marl, Pliocene, Florida: Sellards, 1646.
- Caloosahatchee marls, Tertiary, Florida: Sellards, 1648.
- Camas basalt, Tertiary, Washington: Weaver, 1970.
- Cambridge limestone, Pennsylvanian, Maryland: Swartz, 1804.
- Cambridge limestone, Pennsylvanian, Ohio: Stout, 1794.
- Cambridge slate member, Permo-Carboniferous, Massachusetts; Sayles, 1606.
- Camden chert, Devonian, Tennessee: Dunbar, 525.
- Camillus shale member, Silurian, Ontario: Williams, 2034.
- Campbell Creek limestone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Camp Nelson substage, Ordovician, Kentucky: Miller, 1293.
- Caney shale, Mississippian, Oklahoma: Decker, 483.
- Cannelton limestone, Pennsylvanian, West Virginia: Hennen, 797.
- Cannon limestone, Ordovician, Tennessee: Galloway, 633.
- Cannonball marine member, Cretaceous or Tertiary, North Dakota: Leonard, 1082.
- Cannonball marine member of Lance formation, Tertiary (?), North and South Dakota: Stanton, 1756.
- Canton terrace, Tertiary, Mississippi: Lowe, 1138.
- Cantwell formation, Tertiary, Alaska: Capps, 291, 294.
- Canyon division, Pennsylvanian, Texas: Plummer, 1475.
- Canyon formation, Pennsylvanian, Texas: Matteson, 1231; Snider, 1736.
- Canyon Large terrane, Oligocene, New Mexico: Keyes, 993.
- Capitan limestone, Permian, New Mexico: Baker, 55.
- Capitan terrane, Permian, New Mexico: Keyes, 993.
- Cape May formation, Quaternary, New Jersey: Hay, 767.
- Cap Mountain formation, Cambrian, Texas: Snider, 1736.
- Capping quartzite, Cambrian, Arizona: Mitchell, 1322.
- Carbondale formation, Carboniferous, Illinois: Cady, 267, 268.
- Carbondale formation, Pennsylvanian, Illinois: Coryell, 410; Hinds, 841; Nebel, 1367.
- Carlin formation, Ordovician, Pennsylvanian: Field, 590.
- Carlile shale, Cretaceous, Kansas: Snider, 1736.
- Carlile shale, Cretaceous, New Mexico: Garrett, 640.
- Carlile shale, Cretaceous, South Dakota: Darton, 461.
- Carlile shale, Cretaceous, Wyoming: Collier, 388; Hancock, 735, 736.
- Carlile shale member, Cretaceous, Kansas: Moore, 1346.
- Carolna gneiss, Archean, Georgia: McCallie, 1149.
- Carrasco terrane, Cambrian, New Mexico: Keyes, 993.

- Carrizo formation, Eocene, Texas: Sellards, 1653; Snider, 1736.
- Carrizo formation, Tertiary, Texas: Dumble, 524.
- Cartersville formation, Cambrian, Georgia: Hull, 880; Hull *et al.*, 878; McCallee, 1159.
- Carters limestone, Ordovician, Tennessee: Galloway, 633.
- Caseyville formation, Pennsylvanian, Illinois: Weller *et al.*, 1973.
- Cason shale, Ordovician, Arkansas: Miser, 1219, 1220.
- Cassville plant shale, Permian, Ohio: Stout, 1794.
- Cassville shale, Permian, Ohio: Stauffer and Schroyer, 1757.
- Castlegate sandstone, Cretaceous, Utah: Forrester, 610.
- Catahoula formation, Tertiary, Texas: Dumble, 524.
- Catahoula sandstone, Tertiary, Alabama: Brantley, 191.
- Catahoula sandstone, Tertiary, Mississippi: Lowe, 1138.
- Catahoula sandstone, Tertiary, Texas: Udden, 1880.
- Catamount schist, pre-Cambrian, New York: Alling, 28.
- Cathedral Bluffs member, Tertiary, Wyoming: Schultz, 1639.
- Cattaraugus formation, Devonian, New York and Pennsylvania: Decker, 483.
- Cave Creek formation, Permian, Kansas: Moore, 1346; Snider, 1736.
- Cayugan group, Silurian, Ontario: Williams, 2034.
- Cedar (Upper) sandstone, Pennsylvania, West Virginia: Hennen, 797.
- Cedar Creek argillite, Paleozoic, Washington: Weaver, 1970.
- Cedar Grove (Middle) sandstone, Pennsylvanian, West Virginia: Reger, 1528.
- Cedar Grove (Upper) sandstone, Pennsylvanian, West Virginia: Reger, 1528.
- Cedar Hills sandstone, Permian, Kansas: Snider, 1736.
- Cedar Hills sandstone member, Permian, Kansas: Moore, 1346.
- Cedar Rapids phase of Otis limestone, Devonian, Iowa: Norton, 1381.
- Cedar Valley limestone, Devonian, Illinois and Iowa: Savage, 1604.
- Center Hall formation, Ordovician, Pennsylvania: Field, 590.
- Cercado formation, Miocene, Dominican Republic: Cooke, 400; Maury, 1249.
- Cerro Gordo substage, Devonian, Iowa: Fenton, 580.
- Cevicos limestone, Oligocene, Dominican Republic: Cooke, 400.
- Chaco terrane, Oligocene, New Mexico: Keyes, 993.
- Chacra terrane, Cretaceous, New Mexico: Keyes, 993.
- Chadron formation, Oligocene, South Dakota: Darton, 461; O'Harra, 1389.
- Chagres sandstone, Pliocene, Canal Zone: MacDonald, 1170.
- Chagrin formation, Ohio: Decker, 483.
- Chaman series, Oligocene, New Mexico: Keyes, 993.
- Chambersburg limestone, Ordovician, Maryland: Bassler, 90.
- Chamiso formation, Cretaceous, New Mexico: Winchester, 2061.
- Champion shell bed, Cretaceous, Kansas: Twenhofel, 1871.
- Chanute shale, Pennsylvanian, Iowa: Tilton, 1846.
- Chanute shale, Pennsylvanian, Kansas: Snider, 1736.
- Chanute shale member, Pennsylvanian, Kansas: Moore, 1305.
- Chaquaqua terrane, Jurassic, New Mexico: Keyes, 993.
- Charlton formation, Tertiary, Georgia: McCallee, 1159.
- Chase formation, Permian, Kansas: Moore, 1346; Snider, 1736.
- Chattahoochee formation, Oligocene, Florida: Sellards, 1647.
- Chattahoochee formation, Tertiary, Florida: Sellards, 1648.
- Chattanooga black shale, Devonian, Georgia: McCallee, 1159.
- Chattanooga formation, Mississippian, Tennessee: Galloway, 633.
- Chattanooga shale, Devonian, Arkansas: Miser, 1319, 1320.
- Chattanooga shale, Devonian, Illinois: Weller, *et al.*, 1973.
- Chattanooga shale, Devonian, Kentucky: Butts, 259; Jillson, 918.
- Chattanooga shale, Devonian, Oklahoma: Snider, 1736.
- Chattanooga shale, Devonian, Tennessee: Butts, 258; Dunbar, 525.
- Chattanooga shale, Devonian and Mississippian, Kentucky: Miller, 1297.
- Chattanooga shale, Devonian or Carboniferous, Tennessee: Mather, 1227.
- Chattanooga shale, Devonian or Carboniferous, Kentucky: Shaw and Mather, 1680.
- Chautauquan group, Devonian, Tennessee: Dunbar, 525.
- Chaves terrane, Permian, New Mexico: Keyes, 993.
- Checkerboard limestone, Pennsylvanian, Oklahoma: Bloesch, 155.
- Cheggoggin Point formation, Nova Scotia: Fairbault, 572.
- Chemung formation, Pennsylvania: Decker, 483.
- Cherokee shale, Carboniferous, Oklahoma: Berger 123.
- Cherokee shale, Pennsylvanian, Kansas: Boughton, 170; Moore, 1346.
- Cherokee shale, Pennsylvanian, Kansas and Oklahoma: Snider, 1736.

- Cherokee shale, Pennsylvanian, Oklahoma : Berger, 123.
- Cherryvale shale, Pennsylvanian, Iowa : Tilton, 1846.
- Cherryvale shale, Pennsylvanian, Kansas : Snider, 1736.
- Cherryvale shale member, Pennsylvanian, Kansas : Moore, 1346.
- Cheshewalla sandstone, Carboniferous, Oklahoma : Goldman, 665.
- Cheshewalla sandstone, Pennsylvanian, Oklahoma : Goldman and Robinson, 667 ; Robinson and Mills, 1559, 1560.
- Chester group, Mississippian, Illinois : Wel'ler *et al.*, 1973 ; Weller, 1974, 1975.
- Chester series, Mississippian, Kentucky : Miller, 1293.
- Chesterfield limestone, pre-Cambrian, New York : Alling, 28.
- Chewelah argillite, Paleozoic, Washington : Weaver, 1970.
- Cheyenne sandstone, Comanchean, Kansas : Snider, 1736 ; Moore, 1346 ; Twenhofel, 1871.
- Chickamauga formation, Ordovician, Georgia : McCallie, 1159.
- Chico formation, Cretaceous, California : Ellis, 542 ; Kew, 979.
- Chico group, Cretaceous, Oregon : Smith and Parkard, 1728.
- Chilton (Lower) sandstone, West Virginia : Reger, 1528.
- Chilton (Upper) sandstone, Pennsylvanian, West Virginia : Hennen, 797 ; Reger, 1528.
- Chimneyhill limestone, Silurian, Oklahoma : Decker, 483.
- Chinle formation, Triassic, Arizona : Shimer, 1693.
- Chinle formation, Triassic, Utah : Clark, 344.
- Chipola marl, Miocene, Gulf States : Vaughan, 1910.
- Chiricahuan series, Cambrian, New Mexico : Keyes, 993.
- Chisna formation, Carboniferous, Alaska : Chapin, 330.
- Chitstone limestone, Triassic, Alaska : Bateman and McLaughlin, 98.
- Chloridian series, Cambrian, New Mexico : Keyes, 993.
- Choctawhatchee formation, Miocene, Florida : Sellards, 1647.
- Choctawhatchee formation, Tertiary, Florida : Sellards, 1648.
- Choctawhatchee marl, Miocene, Florida : Vaughan, 1910.
- Choptank formation, Miocene, Atlantic Coastal Plain : Vaughan, 1910.
- Chouteau limestone (Kinderhookian), Mississippian, Missouri : Branson, 190.
- Chozo formation, Permian, Texas : Beede, 109.
- Christiania bed, Ordovician, Maryland : Bassler, 90.
- Chugwater formation, Triassic, Wyoming : Collier, 387, 389.
- Chupadera formation, Permian, New Mexico : Wells, 1978.
- Cibao limestone, Tertiary, Porto Rico : Hubbard, 927.
- Cibola terrane, Silurian, New Mexico : Keyes, 993.
- Cimarron group, Carboniferous, Kansas : Darton, 462.
- Cimarron group, Permian, Kansas : Moore, 1346 ; Snider, 1736.
- Cimarronian series, Permian, New Mexico : Keyes, 993.
- Cincinnati, Ordovician, Indiana : Logan, 1120.
- Cisco formation, Pennsylvanian, Texas : Matteson, 1131 ; Snider, 1736.
- Cisco division, Pennsylvanian, Texas : Plummer, 1475.
- Citronelle formation, Tertiary, Mississippi : Lowe, 1097, 1140.
- Claggett formation, Cretaceous, Montana : Bowen, 171 ; Hancock, 734.
- Claiborne formation, Eocene, Florida : Sellards, 1647.
- Claiborne formation, Tertiary, Florida : Sellards, 1648.
- Claiborne formation, Tertiary, Mississippi : Lowe, 1140.
- Claiborne group, Eocene, Texas : Snider, 1736.
- Claiborne group, Tertiary, Alabama : Brantley, 191.
- Claiborne group, Tertiary, Mississippi : Lowe, 1138.
- Claiborne group, Tertiary, Texas : Dumble, 524.
- Clarendon gravels, Pleistocene, Pennsylvania : Williams, 2032.
- Clarion sandstone, Pennsylvanian, Ohio : Stout, 1794.
- Clarksburg limestone, Pennsylvanian, Ohio : Stout, 1794.
- Clarno formation, Eocene, Oregon : Smith and Packard, 1728.
- Clarysville sandstone, Pennsylvanian, Maryland : Swartz, 1804.
- Clayton formation, Tertiary, Alabama : Brantley, 191.
- Clayton formation, Tertiary, Mississippi : Lowe, 1138.
- Clear Creek chert, Devonian, Illinois : Savage, 1604, 1605.
- Clear Fork formation, Permian, Texas : Matteson, 1231.
- Clearwater formation, Cretaceous, Alberta : McLearn, 1188.
- Clem Creek sandstone, Carboniferous, Oklahoma : Hopkins and Powers, 854.
- Clem Creek sandstone, Pennsylvanian, Oklahoma : Ross, 1578.
- Cleveland shale, Devonian, Ohio : Decker, 483.
- Cliff House sandstone, Cretaceous, Colorado : Collier, 386.
- Clifty limestone, Devonian, Arkansas : Miser, 1319.

- Clinton formation, Silurian, Ontario: Williams, 2034.
- Clore, Mississippian, Kentucky: Miller, 1293.
- Clore limestone, Mississippian, Illinois: Weller, 1974; Weller et al, 1973.
- Cloverly formation, Cretaceous, Wyoming: Collier, 389.
- Cloverly formation, Cretaceous, Wyoming: Hancock, 734.
- Clugston limestone, Paleozoic, Washington: Weaver, 1970.
- Coaledo formation, Eocene, Oregon: Harrison and Eaton, 761; Smith and Packard, 1728.
- Coalburg (Lower) sandstone, Pennsylvanian, West Virginia: Hennen, 797.
- Coalburg (Upper) sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Coamo tuff limestone, Porto Rico; Berkey, 124.
- Coamo Springs limestone series, Eocene, Porto Rico: Hodge, 837.
- Coast Range batholith, Jurassic (?), British Columbia: Dolmage, 506.
- Cobalt series, pre-Cambrian, Ontario: Cooke, 401, 407; Coleman, 382; Whitehead, 2010.
- Cobalt series, pre-Cambrian, Quebec: Cooke, 403.
- Cobleskill limestone, Silurian, New York: Jones, 951.
- Coburn formation, Ordovician, Pennsylvania: Field, 590.
- Cockfield beds, Tertiary, Mississippi: Lowe, 1138.
- Coconino sandstone, Permian, Arizona: Shimer, 1693.
- Cody shale, Cretaceous, Wyoming: Collier, 389.
- Coeymans limestone, Devonian, New York: Jones, 951.
- Coffee sand member, Cretaceous, Tennessee: Wade, 1922.
- Coffee Mill Hammock marl, Quaternary, Florida: Sellards, 1646.
- Coffeyville limestone, Pennsylvanian, Kansas and Oklahoma: Snider, 1736.
- Coggon phase of Otis limestone, Devonian, Iowa: Norton, 1381.
- Cohansey sands, Quaternary, New Jersey: Hay, 767.
- Coldwater group, Cretaceous, British Columbia: Reinecke, 1538.
- Cole Canyon dolomite, Cambrian, Utah: Lindgren and Loughlin, 1105.
- Collazo shales, Tertiary, Porto Rico: Maury, 1248.
- Collier shale, Cambrian, Arkansas: Miser, 1319.
- Colorado formation, Cretaceous, Alberta: Slipper, 1712.
- Colorado group, Cretaceous; Alberta: McLearn, 1187.
- Colorado group, Cretaceous, Colorado: Henderson, 795.
- Colorado shale, Cretaceous, Montana: Bowen, 171; Hancock, 734.
- Columbia formation, Pleistocene, Tennessee: Schroeder, 1623.
- Columbia formation, Pleistocene, Texas: Dumble, 524; Snider, 1736.
- Columbia group, Quaternary, Maryland and Delaware: Bascom and Miller, 86.
- Columbia lava, Neocene, Oregon: Smith and Packard, 1728.
- Columbia substage, Quaternary, Kentucky: Miller, 1293.
- Columbus limestone, Devonian, Kentucky: Miller, 1293.
- Colville quartzite, Paleozoic, Washington: Weaver, 1970.
- Colville series, Tertiary, Alaska: Dall, 451.
- Comanchean system, Kansas: Moore, 1346.
- Comanche formation, Cretaceous, Colorado: Henderson, 795.
- Comanche series, Cretaceous, Kansas: Darton, 462.
- Comanche Peak beds, Cretaceous, Texas: Dumble, 524.
- Comanche Peak formation, Cretaceous, Texas: Sellards, 1653.
- Comanche Peak limestone, Comanchean, Texas: Liddle and Prettyman, 1102; Snider, 1736.
- Comanche Peak limestone, Cretaceous, Texas: Matteson, 1231; Snider, 1736; Winton and Adkins, 2062.
- Commerce sandstone, Tertiary (?), Missouri: Dake, 441.
- Conasauga formation, Cambrian, Georgia: Hull, 880; Hull et al., 878; McCallie, 1159.
- Conception slate series, pre-Cambrian, Newfoundland: Buddington, 226.
- Conemaugh formation, Pennsylvanian, Maryland: Swartz, 1804.
- Conemaugh formation, Pennsylvanian, Ohio: Stout, 1794.
- Conemaugh series, Pennsylvanian, West Virginia: Reger, 1528.
- Conewango clay, Pleistocene, Pennsylvania: Williams, 2032.
- Connellsville sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Conococheague limestone, Cambrian, Maryland: Bassler, 90.
- Cook Mountain formation, Eocene, Texas: Snider, 1736.
- Cook Mountain formation, Tertiary, Texas: Udden, 1880.
- Cook's Mountain formation, Tertiary, Texas: Dumble, 524.
- Coon Creek member, Cretaceous, Tennessee: Wade, 1922.
- Cooper limestone, Devonian, Missouri: Branson, 190; Greger, 698.
- Coos conglomerates, Neocene, Oregon: Smith and Packard, 1728.
- Coos formation, Pliocene, Oregon: Harrison and Eaton, 761.

- Copps group, pre-Cambrian, Michigan : Allen, 25.
- Corbin granite, Archean, Georgia : Hull *et al.*, 878.
- Corinth sandstone, Pennsylvanian, Maryland : Swartz, 1804.
- Cornishville bed, Ordovician, Kentucky : Miller, 1293.
- Corozal limestone, Cretaceous (?), Porto Rico : Semmes, 1655.
- Corozal limestone, Porto Rico : Berkey, 124.
- Corrigan formation, Oligocene, Texas : Snider, 1736.
- Corrigan formation, Tertiary, Texas : Dumble, 524.
- Corryville, Ordovician, Kentucky : Miller, 1293.
- Cotter dolomite, Ordovician, Arkansas : Miser, 1319.
- Cottonwood limestone, Permian, Kansas, Oklahoma : Snider, 1736.
- Cottonwood limestone, Permian, Oklahoma : Bowen *et al.*, 172.
- Cottonwood limestone member, Permian, Kansas : Moore, 1346.
- Council Grove formation, Permian, Kansas : Moore, 1346 ; Snider, 1736.
- Coventry conglomerate, Ordovician, Vermont : Richardson, 1544.
- Coventry phase of Waits River limestone : Richardson, 1544, 1545.
- Cow Run sandstone, Pennsylvania, Ohio : Stout, 1794.
- Coyote terrane, Pennsylvanian, New Mexico : Keyes, 993.
- Craghead Creek shale, Devonian, Missouri : Greger, 697.
- Craigsville limestone, Devonian, Virginia : Holden, 845.
- Cranberry Island series, Mount Desert Island, Maine : Bascom, 87.
- Creston reds, Permian, Ohio : Stauffer and Schroyer, 1757.
- Cristobal terrane, Ordovician, New Mexico : Keyes, 952.
- Crouse limestone, Permian, Oklahoma : Bowen *et al.*, 172 ; Snider, 1736.
- Crowsnest volcanics, Cretaceous, Alberta : Rose, 1575, 1576.
- Cruise oil zone, Tertiary, Trinidad : Maccready, 1195.
- Crystal Mountain sandstone, Ordovician, Arkansas : Miser, 1319.
- Cucuracha formation, Oligocene, Panama Canal Zone : MacDonald, 1170 ; MacDonald *et al.*, 1171 ; Vaughan, 1910.
- Culebra beds, Oligocene, Panama Canal Zone : MacDonald *et al.*, 1171.
- Culebra formation, Oligocene, Panama Canal Zone : MacDonald, 1170 ; Vaughan, 1910.
- Curdsville substage, Ordovician, Kentucky : Miller, 1293.
- Curry member, pre-Cambrian, Michigan : Allen, 25.
- Cutler formation, Permian (?), Colorado : Coffin, 375.
- Cuyahoga stage, Mississippian, Kentucky : Miller, 1293.
- Cynthiana stage, Ordovician, Kentucky : Miller, 1293.
- Cypress sandstone, Mississippian, Illinois : Weller, 1974 ; Weller *et al.*, 1973.
- Cypress sandstone, Mississippian, Indiana : Malott, 1205 ; Malott and Thompson, 1206.
- Cypress sandstone, Mississippian, Kentucky : Butts, 259 ; Miller, 1293.
- Cypress sandstone, Mississippian, Tennessee : Butts, 258.
- Cyril gypsum bed, Permian, Oklahoma : Clapp, 340.
- Dagmar limestone, Cambrian, Utah : Lindgren and Loughlin, 1105 ; Wichman, 2024.
- "Dakota" formation, Cretaceous, Colorado : Crawford *et al.*, 416 ; Henderson, 795 ; Perini and Collins, 1461.
- Dakota formation, Cretaceous, Wyoming : Hancock, 737.
- Dakota group, Cretaceous, Colorado : Lee, 1047.
- Dakota sandstone, Cretaceous, Kansas : Darton, 462 ; Moore, 1346 ; Snider, 1736.
- Dakota sandstone, Cretaceous, New Mexico : Baker, 55 ; Garrett, 640 ; Wells, 1978 ; Winchester, 2061.
- Dakota sandstone, Cretaceous, North Dakota : Leonard, 1082.
- Dakota sandstone, Cretaceous, Utah : Clark, 344.
- Dakota stage, Cretaceous, Iowa : Tilton, 1847.
- Dakota (Lower), Cretaceous, Kansas : Twenhofel, 1871.
- Dakota (Upper), Cretaceous, Kansas : Twenhofel, 1871.
- "Dannemora" formation, pre-Cambrian, New York : Ailing, 28.
- Datil formation, Tertiary, New Mexico : Winchester, 2061.
- Davenport (Lower) limestone, Devonian, Iowa : Norton, 1381.
- Davenport (Upper) limestone, Devonian, Iowa : Norton, 1381.
- Day Creek dolomite, Permian, Kansas : Snider, 1736.
- Day Creek dolomite member, Permian, Kansas : Moore, 1346.
- Dayton limestone, Silurian, Ohio : Foerste, 598.
- Deadman limestone, Triassic (?), Idaho : Mansfield, 1211, 1214, 1216.
- Decatur limestone, Silurian, Tennessee : Dunbar, 525.
- Decatur sand, Tertiary, Mississippi : Lowe, 1138.
- Decaturville chert, Devonian, Tennessee : Dunbar, 525.
- De Cew waterlime member, Silurian, Ontario : Williams, 2034.
- Decorah shale, Ordovician, Minnesota : Grout and Soper, 715.
- Decota sandstone, Pennsylvanian, West Virginia : Hennen, 797 ; Reger, 1528.

- Deer Creek limestone, Pennsylvanian, Kansas: Snider, 1736.
- Deer Creek limestone, Pennsylvanian, Oklahoma, Heald, 777; Heald and Mather, 780.
- Deer Creek limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Deer Lake argillite, Paleozoic, Washington: Weaver, 1970.
- Deer Trail argillite, Paleozoic, Washington: Weaver, 1970.
- Degonia sandstone, Mississippian, Illinois: Weller, 1974; Weller *et al.*, 1973.
- De Kalb limestone (Drum), Pennsylvanian, Iowa: Tilton, 1846.
- Delaware limestone, Devonian, Kentucky: Miller, 1293.
- Delaware (Sellersburg) limestone, Devonian, Kentucky: Miller, 1299.
- Delaware Mountain formation, Permian, New Mexico: Baker, 55.
- Del Rio clay, Cretaceous, Texas: Christner and Wheeler, 339; Snider, 1736; Udden, 1880.
- Del Rio clays, Cretaceous, Texas: Dumble, 524.
- Del Rio formation, Cretaceous, Texas: Sellards, 1653.
- Denton formation, Comanchean, Texas: Adkins, 6; Adkins and Winton, 7.
- Denton marl, Cretaceous, Texas: Winton and Adkins, 2062.
- Denver beds, Cretaceous, Colorado: Henderson, 795.
- De Queen limestone member, Cretaceous, Arkansas: Miser, 1319.
- Des Moines group, Pennsylvanian, Kansas: Moore, 1346; Snider, 1736.
- Des Moines stage, Pennsylvanian, Iowa: Tilton, 1846.
- Devil's River limestone, Cretaceous, Texas: Christner and Wheeler, 339.
- Dewey limestone, Carboniferous, Oklahoma: Goldman, 666.
- Dewey limestone, Pennsylvanian, Oklahoma: Ross, 1578; Snider, 1736.
- Dewitt formation, Tertiary, Texas: Udden, 1880.
- Dexter sands, Cretaceous, Texas: Shuler, 1696.
- Dierks limestone lentil, Cretaceous, Arkansas: Miser, 1319.
- Dighton conglomerate, Carboniferous, Massachusetts and Rhode Island: Perkins, 1462.
- Dillard formation, Jurassic, Oregon: Smith and Packard, 1728.
- Dimple formation, Pennsylvanian, Texas: Böse, 161; Moore, 1344.
- Dingess limestone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Dinwoody formation, Carboniferous, Wyoming: Collier, 387.
- Dinwoody formation, Carboniferous and Triassic, Wyoming: Collier, 389.
- "Dixon" graphite schist, pre-Cambrian, New York: Alling, 28.
- Dockum beds, Triassic, Texas: Liddle and Prettyman, 1102; Snider, 1736.
- Documan series, Triassic, New Mexico: Keyes, 993.
- Dog Creek shale, Permian, Kansas: Snider, 1736.
- Dog Creek shale member, Permian, Kansas: Moore, 1346.
- Dolores formation, Triassic, Colorado: Coffin, 375.
- Doloresian series, Triassic, New Mexico: Keyes, 993.
- Don beds, Pleistocene, Ontario: Baker, 56.
- Dorchester slate member, Permo-Carboniferous, Massachusetts: Sayles, 1606.
- Dothan formation, Jurassic, Oregon: Smith and Packard, 1728.
- Dothan limestone, Pennsylvanian, Texas: Plummer, 1475.
- Dotson sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Dotson (Lower) sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Double Mountain formation, Permian, Texas: Matteson, 1231.
- Douglas formation, Pennsylvanian, Kansas: Boughton, 170; Moore, 1346; Snider, 1736.
- Douglas shale, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Doyle shale, Permian, Kansas: Snider, 1736.
- Doyle shale member, Permian, Kansas: Moore, 1346.
- Dragoon series, Cambrian, New Mexico: Keyes, 993.
- Draney limestone, Cretaceous (?), Idaho: Mansfield, 1216.
- Dresbach sandstone, Cambrian, Minnesota: Grout and Soper, 715.
- Dresbach formation, Cambrian, Wisconsin: Twenhofel and Thwaites, 1870.
- Dresden paramphibolite, pre-Cambrian, New York: Alling, 28.
- Dripping Spring quartzite, Cambrian, Arizona: Ransome, 1507.
- Drum limestone, Pennsylvanian, Kansas: Snider, 1736.
- Drum limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Duck Creek formation, Comanchean, Texas: Adkins, 6; Snider, 1736.
- Duck Creek formation, Cretaceous, Texas: Adkins and Winton, 7; Winton and Adkins, 2062.
- Duluth gabbro, pre-Cambrian, Minnesota: Grout and Broderick, 716.
- Dunkard series, Permian, Ohio: Stauffer and Schroyer, 1757; Stout, 1794.
- Dunvegan formation, Cretaceous, Alberta: McLearn, 1197, 1198.
- Dunvegan formation, Cretaceous, British Columbia: Stewart, 1767.
- Duplin marl, Miocene, Atlantic Coastal Plain: Vaughan, 1910.

- Duplin marl. Tertiary, Georgia: McCallie, 1159.
- Dutch Creek sandstone, Devonian, Illinois: Savage, 1604, 1605.
- Dyer Bay dolomite lentil, Silurian, Ontario: Williams, 2034.
- Eagle limestone and shale, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Eagle sandstone, Cretaceous, Montana: Bowen, 171; Hancock, 734.
- Eagle sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Eagle Creek formation, Tertiary, Oregon: Smith and Packard, 1728.
- Eagle Creek formation, Tertiary, Washington and Oregon: Chaney, 325.
- Eagle Ford formation, Cretaceous, Texas: Christner and Wheeler, 339; Dumble, 524; Sellards, 1653; Shuler, 1696; Snider 1736; Udden, 1880.
- Eagleford shales, Cretaceous, Texas: Winton and Adkins, 2062.
- Eagle Mountain quartzite, Paleozoic, Washington: Weaver, 1970.
- Early Bird formation, Carboniferous or pre-Carboniferous, British Columbia: Schofield, 1617.
- Early Bird formation, Paleozoic, British Columbia: Schofield, 1619.
- Eastland formation, Pennsylvanian, Texas: Plummer, 1475.
- Eastland limestone, Pennsylvanian, Texas: Snider, 1736.
- East Lynn sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- East Lynn (Upper) sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Eddy terrane, Permian, New Mexico: Keyes, 993.
- Eden formation, Ordovician, Kentucky: Miller, 1293.
- Edmonton formation, Cretaceous, Alberta: Allan, 20; Slipper, 1712.
- Edwards formation, Comanchean, Texas: Adkins, 6.
- Edwards formation, Cretaceous, Texas: Sellards, 1653.
- Edwards limestone, Comanchean, Texas: Little and Prettyman, 1102.
- Edwards limestone, Cretaceous, Texas: Christner and Wheeler, 339; Dumble, 524; Snider, 1736; Udden, 1880; Winton and Adkins, 2062.
- Ekwan River limestone, Silurian, Canada: Savage and Van Tuyl, 1603.
- Elbrook formation, Cambrian, Maryland: Bassler, 90.
- Elgin sandstone, Pennsylvanian, Kansas: Moore, 1346.
- Elgin sandstone, Pennsylvanian, Oklahoma: Heald and Bowen, 778; Snider, 1736.
- Elliot phyllite, Carboniferous (?), Maine and New Hampshire: Wandke, 1943.
- Elk River beds, Pleistocene, Oregon: Smith and Packard, 1728.
- Ellenberger limestone, Cambro-Ordovician, Texas: Snider, 1736.
- Ellenberger limestone formation, Cambro-Ordovician, Texas: Matteson, 1231.
- Ellenberger formation, Texas: Sellards, 1652, 1654.
- Ellenberger limestone, Ordovician, Texas: Udden, 1880.
- Ellerslie sandstone, Pennsylvanian, Maryland: Swartz, 1804.
- Elmdale shale, Pennsylvanian, Kansas: Snider, 1736.
- Elmdale shale member, Pennsylvanian, Kansas: Moore, 1346.
- Elm Grove limestone, Permian, Ohio: Stauffer and Schroyer, 1757; Stout, 1794.
- El Pasan series, Ordovician, New Mexico: Keyes, 993.
- El Paso limestone, Ordovician, Texas: Udden, 1880.
- Elvins formation, Cambrian, Missouri: Tarr, 1817.
- Elwren sandstone, Mississippian, Indiana: Malott and Thompson, 1206.
- Elwren sandstone and shale, Mississippian, Indiana: Malott, 1205.
- Embar group, Carboniferous, Wyoming: Collier, 387.
- Embar group, Carboniferous and Triassic, Wyoming: Collier, 389.
- Emerald dolomite member, Ordovician, Utah: Lindgren and Loughlin, 1105.
- Emmitsburg facies of Newark system, Triassic, Maryland: Dorsey, 510.
- Emperor limestone, Oligocene, Panama Canal Zone: MacDonald, 1170; MacDonald *et al.*, 1171; Vaughan, 1910.
- Empire beds, Oligocene, Oregon: Smith and Packard, 1728.
- Empire formation, Pliocene, Oregon: Harrison and Eaton, 761.
- Emporia limestone, Pennsylvanian, Kansas: Snider, 1736.
- Emporia shale member, Pennsylvanian, Kansas: Moore, 1346.
- Engadine dolomite, Michigan: Ehlers, 539.
- Enid formation, Permian, Kansas: Moore, 1346; Snider, 1736.
- Enid formation, Permian, Oklahoma: Clapp, 340.
- Enterprise green marl, Tertiary, Mississippi: Lowe, 1138.
- Enterprise shale, Permian, Kansas: Snider, 1736.
- Enterprise shale member, Permian, Kansas: Moore, 1346.
- Ephraim conglomerate, Cretaceous (?), Idaho: Mansfield, 1216.
- Eramosa member, Silurian, Ontario: Williams, 2034.
- Erwin quartzite, Cambrian, Virginia: Stose *et al.*, 1786.
- Escabrosa limestone, Mississippian, Arizona: Mitchell, 1322.

- Escondido beds, Cretaceous, Texas: Udden, 1880.
- Eskridge shale, Pennsylvanian, Kansas: Snider, 1736.
- Eskridge shale member, Pennsylvanian, Kansas: Moore, 1346.
- Esopus grit, Devonian, New York: Jones, 951.
- Estill, Silurian, Kentucky: Miller, 1293.
- Etchegoin formation, Tertiary, California: Pack, 1415.
- Eutaw formation, Cretaceous, Alabama: Brantley, 191.
- Eutaw formation, Cretaceous, Georgia: McCallie, 1159.
- Eutaw formation, Cretaceous, Georgia, Alabama, and Tennessee: Berry, 129.
- Eutaw formation, Cretaceous, Mississippi: Lowe, 1138, 1140.
- Eutaw formation, Cretaceous, Tennessee: Wade, 1922.
- Everton formation, Ordovician, Missouri: Dake, 441.
- Everton limestone, Ordovician, Arkansas: Miser, 1319.
- Ewing limestone, Pennsylvanian, Ohio: Stout, 1794.
- Exter (?) formation, Triassic, New Mexico: Garrett, 640.
- Exter terrane, Jurassic, New Mexico: Keyes, 993.
- Fairmount, Ordovician, Kentucky: Miller, 1293.
- Fajardo shales, Porto Rico: Berkey, 124.
- Falkirk dolomite, Silurian, New York: Williams, 2034.
- Farnham formation, Ordovician, Quebec: Knox, 1030.
- Faulconer bed, Ordovician, Kentucky: Miller, 1293.
- Faxon limestone, pre-Cambrian, New York: Alling, 28.
- Fayette formation, Eocene, Texas: Snider, 1736.
- Fayette substage, Tertiary, Texas: Dumble, 524.
- Fayetteville shale, Mississippian, Arkansas: Miser, 1319.
- Fayetteville shale, Mississippian, Oklahoma: Snider, 1736.
- Fernando formation, Pliocene, California: Kew, 979, 980.
- Fernie formation, Jurassic, Alberta: Rose, 1575, 1576.
- Fernie formation, "Juratrias," Alberta: MacVicar, 1196.
- Fernvale limestone, Ordovician, Arkansas: Miser, 1319, 1320.
- Fernvale formation, Ordovician, Tennessee: Mather, 1227.
- Fernow rhyolite, Utah: Lindgren and Loughlin, 1105.
- Ferron sandstone, Cretaceous, Utah: Clark, 344.
- Fincher sand, Mississippian, Texas: Matton, 1231.
- Fish Creek argillite, Paleozoic, Washington: Weaver, 1970.
- Fish Creek sandstone, Permian, Ohio: Stauffer and Schroyer, 1757.
- Fisher quartz latite, Tertiary, Colorado: Patton, 1454.
- Fish Haven dolomite, Ordovician, Idaho: Mansfield, 1211.
- Fish House clays, Quaternary, New Jersey: Hay, 767.
- Flaming Gorge formation, Jurassic, Utah: Butler, 255.
- Flat Gap Member, Devonian, Tennessee: Dunbar, 525.
- Flathead sandstone, Cambrian, Wyoming: Collier, 389.
- Flattop Mountain sandstone, Pennsylvanian, West Virginia: Hennen, 797.
- Flaxman formation, Pleistocene, Alaska: Leffingwell, 1074.
- Fleming clay, Tertiary, Texas: Udden, 1880.
- Fleming formation, Tertiary, Texas: Dumble, 524.
- Florence flint, Permian, Kansas: Snider, 1736.
- Florence flint member, Permian, Kansas: Moore, 1346.
- Florencia formation, Pleistocene: Baker, 56.
- Flowerpot shale, Permian, Kansas: Snider, 1736.
- Flowerpot shale member, Permian, Kansas: Moore, 1346.
- Floyd shale, Carboniferous, Georgia: McCallie, 1159.
- Folley limestone, Ordovician, Missouri: Foerste, 603.
- Foraker limestone, Pennsylvanian, Oklahoma: Bowen *et al.*, 172; Snider, 1736.
- Foraker limestone member, Carboniferous, Kansas and Oklahoma: Twenhofel, 1867.
- Forest Hill sand, Tertiary, Mississippi: Lowe, 1138.
- Forest Hill (Madison) sand, Tertiary, Mississippi: Lowe, 1138.
- Fort Hall formation, Triassic, Idaho: Mansfield, 1211, 1216.
- Fort Hays limestone member, Cretaceous, Kansas: Moore, 1346.
- Fort Payne chert, Mississippian, Kentucky: Miller, 1297; Shaw and Mather, 1680.
- Fort Payne chert, Mississippian, Tennessee: Mather, 1227.
- Fort Payne formation, Mississippian, Kentucky: Butts, 259.
- Fort Payne formation, Mississippian, Tennessee: Butts, 258; Galloway, 633.
- Fort Pierre group, Cretaceous, Colorado: Henderson, 794.
- Fort Riley limestone, Permian, Kansas: Snider, 1736.
- Fort Riley limestone member, Permian, Kansas: Moore, 1346.
- Fort Scott limestone, Pennsylvanian, Kansas and Oklahoma: Snider, 1736.

- Fort Scott limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Fort Thompson beds, Pleistocene, Florida: Sellards, 1646, 1647, 1648.
- Fort Union formation, Tertiary, Montana: Hancock, 734.
- Fort Union formation, Tertiary, North and South Dakota: Stanton, 1756.
- Fort Union formation, Tertiary, North Dakota; Leonard, 1082.
- Fort Union formation, Tertiary, Wyoming: Hewitt, 811.
- Fort Wayne chert, Carboniferous, Georgia: McCallie, 1159.
- Fort Worth formation, Comanchean, Texas: Adkins, 6.
- Fort Worth formation, Cretaceous, Texas: Adkins and Winton, 7; Winton and Adkins, 2062.
- Fountain formation, Pennsylvanian, Colorado: Henderson, 795.
- Fox Hills beds, Cretaceous, Colorado: Henderson, 794.
- Fox Hills formation, Cretaceous, Colorado: Henderson, 795.
- Fox Hills group, Cretaceous, Colorado: Henderson, 794.
- Fox Hills sandstone, Cretaceous, North and South Dakota: Stanton, 1756.
- Fox Hills sandstone, Cretaceous, North Dakota: Leonard, 1082.
- Fox Hills (?) sandstone, Cretaceous, South Dakota: Darton, 461.
- Fox Hills sandstone, Cretaceous, Wyoming: Hancock, 735.
- Franciscan series, Jurassic (?) California: Kew, 980.
- Franconia formation, Cambrian, Wisconsin: Twenhofel and Thwaites, 1870.
- Franconia sandstone, Cambrian, Minnesota: Grout and Soper, 715.
- Franks conglomerate, Pennsylvanian, Oklahoma: Bloesch, 155; Decker, 483.
- Fraser River formation, Cretaceous, British Columbia: Reinecke, 1538.
- Frederick limestone, Ordovician, Maryland: Bassler, 90.
- Fredericksburg, Cretaceous, Texas: Dumble, 524.
- Fredericksburg division, Comanchean, Texas: Liddle and Prettyman, 1102; Snider, 1736.
- Fredericksburg division, Cretaceous, Texas: Winton and Adkins, 2062.
- Fredericksburg formation, Cretaceous, Texas: Adkins and Winton, 7.
- Fredericksburg terrane, Comanchean, New Mexico: Keyes, 993.
- Fredonia, Mississippian, Kentucky: Miller, 1293.
- Fredonia limestone member, Mississippian, Illinois: Weller *et al.*, 1973.
- Fredonia oolite, Mississippian, Indiana: Malott and Thompson, 1206.
- Fredonia oolite, Mississippian, Tennessee: Butts, 258.
- Freeport (Lower) limestone, Pennsylvanian, Ohio: Stout, 1794.
- Freeport (Lower) limestone, Pennsylvanian, West Virginia: Reger, 1528.
- Freeport (Lower) sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Freeport (Lower) sandstone, Pennsylvanian, West Virginia: Reger, 1528.
- Freeport (Upper) limestone, Pennsylvanian, Ohio: Stout, 1794.
- Freeport (Upper) limestone, Pennsylvanian, West Virginia: Reger, 1528.
- Freeport (Upper) sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Freeport (Upper) sandstone, Pennsylvanian, West Virginia: Reger, 1528.
- Frio formation, Eocene, Texas: Snider, 1736.
- Froncosa terrane, Ordovician, New Mexico: Keyes, 993.
- Frontier formation, Cretaceous, Wyoming: Collier, 388, 389; Schultz, 1639.
- Fulton bed, Ordovician, Kentucky: Miller, 1293.
- Fulton green shale, Pennsylvanian, Ohio: Stout, 1794.
- Furnaceville (Sodus) shale member, Silurian, Ontario: Williams, 2034.
- Fuson formation, Cretaceous, Wyoming: Hancock, 735, 737.
- Galena formation, Ordovician, Illinois: Cady, 267, 270.
- Galena limestone, Ordovician, Minnesota: Grout and Soper, 715.
- Galesburg shale, Pennsylvanian, Iowa: Tilton, 1846.
- Galesburg shale, Pennsylvanian, Kansas: Snider, 1736.
- Galesburg shale member, Pennsylvanian, Kansas: Moore, 1346.
- Galesteo terrane, Miocene, New Mexico: Keyes, 993.
- Galice formation, Jurassic, Oregon: Smith and Packard, 1728.
- Gallisteo formation, Tertiary, New Mexico: Baker, 55.
- Gallatin limestone, Cambrian, Wyoming: Collier, 389.
- Gallego sandstone member, Cretaceous, New Mexico: Winchester, 2061.
- Gallegos terrane, Permian, New Mexico: Keyes, 993.
- Gallinas terrane, Cretaceous, New Mexico: Keyes, 993.
- Gannett group, Cretaceous (?), Idaho: Mansfield, 1216.
- Gaptank formation, Pennsylvanian, Texas: Böse, 161.
- Garden City limestone, Ordovician, Idaho: Mansfield, 1211.
- Gardner dolomite, Mississippian, Utah: Lindgren and Loughlin, 1105.
- Gardner formation, Utah: Wichman, 2024.
- Garnuan series, Proterozoic, New Mexico: Keyes, 993.

- Garrard, Ordovician, Kentucky; Miller, 1293.
- Garrett terrane, Comanchean, New Mexico: Keyes, 993.
- Garrison limestone and shale, Permian, Kansas: Snider, 1736.
- Garrison limestone and shale member, Permian, Kansas: Moore, 1346.
- Gasconade formation, Ordovician, Missouri: Tarr, 1817.
- Gasper, Mississippian, Kentucky: Miller, 1293.
- Gasper oolite, Mississippian, Indiana: Malott and Thompson, 1206.
- Gasper oolite, Mississippian, Kentucky: Butts, 259.
- Gasper oolite, Mississippian, Tennessee: Butts, 258.
- Gasport dolomite member, Silurian, Ontario: Williams, 2034.
- Gatun formation, Miocene, Panama Canal Zone: MacDonald, 1170; Vaughan, 1910.
- Gatun formation, Miocene, Panama and Costa Rica: MacDonald *et al.*, 1171.
- Gaudalupe formation, Permian, New Mexico: Merritt, 1280.
- Gaysport member, Pennsylvanian, Ohio: Stout, 1794.
- Genudewa formation, Devonian, New York: Hussakof and Bryant, 884.
- Georgetown formation, Cretaceous, Texas: Sellards, 1653; Snider, 1736.
- Georgetown formation, Cretaceous, Texas: Udden, 1880.
- Georgetown limestone, Cretaceous, Texas: Christner and Wheeler, 339; Dumble, 524.
- Gerome andesite, Tertiary, Washington: Weaver, 1970.
- Giants Range granite, pre-Cambrian, Minnesota: Grout and Broderick, 716.
- Gila conglomerate, Quaternary, Arizona: Ransome, 1507; Schwennesen, 1640.
- Gilan series, Pleistocene, New Mexico: Keyes, 993.
- Gilbert shale, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Gilbert (Lower) sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Gilbert (Upper) sandstone, Pennsylvanian, West Virginia: Hennen, 797.
- Gilboy sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Gilliam formation, Permo-Carboniferous, Texas: Böse, 161.
- Gilmore sandstone, Permian, Ohio; Stauffer and Schroyer, 1757.
- Girard shales, Pennsylvania: Decker, 483.
- Glen Dean, Mississippian, Kentucky: Miller, 1293.
- Glen Dean limestone, Mississippian, Illinois: Weller, 1974; Weller *et al.*, 1973.
- Glen Dean limestone, Mississippian, Indiana: Malott and Thompson, 1206.
- Glen Dean limestone, Mississippian, Tennessee: Butts, 258.
- Glenn formation, Pennsylvanian, Oklahoma: Bloesch, 155.
- Glenrose formation, Cretaceous, Texas: Sellards, 1653.
- Glen Rose formation, Cretaceous, Texas: Snider, 1736; Udden, 1880.
- Glen Rose limestone, Cretaceous, Texas: Dumble, 524; Matteson, 1231; Winton and Adkins, 2062.
- Glorieta sandstone, Permian, New Mexico: Baker, 55.
- Glorietta terrane, Cretaceous, New Mexico: Keyes, 993.
- Golconda, Mississippian, Kentucky: Miller, 1293.
- Golconda formation, Mississippian, Illinois: Weller *et al.*, 1973.
- Golconda limestone, Mississippian, Illinois: Weller, 1974.
- Golconda limestone, Mississippian, Indiana: Malott and Thompson, 1206.
- Golconda limestone and shale, Mississippian, Indiana: Malott, 1205.
- Golconda shale, Mississippian, Tennessee: Butts, 258.
- Goldenville formation, Nova Scotia: Fari-bault, 572.
- Goodland formation, Cretaceous, Texas: Adkins and Winton, 7.
- Goodland limestone, Cretaceous, Arkansas: Miser, 1319.
- Goodland limestone, Cretaceous, Texas: Winton and Adkins, 2062.
- Gordon sand, Mississippian, Texas: Matteson, 1231.
- Gordon formation, Pennsylvanian, Texas: Plummer, 1475.
- Gore (Upper Mercer) limestone, Pennsylvanian, Ohio: Stout, 1794.
- Goshen schist, Vermont: Foye, 620.
- Gosport greensand, Tertiary, Alabama: Brantley, 191.
- Gowanda beds, Devonian, New York: Chadwick, 308.
- Graford formation, Pennsylvanian, Texas: Plummer, 1475.
- Graford limestone, Pennsylvanian, Texas: Snider, 1736.
- Grainger shale, Devonian and Mississippian, Virginia: Harnsberger, 749.
- Grande terrane, Mississippian, New Mexico: Keyes, 993.
- Grand Gulf formation, Tertiary, Mississippi: Lowe, 1140.
- Grand Gulf group, Tertiary, Alabama: Brantley, 191.
- Grand Gulf group, Tertiary, Mississippi: Lowe, 1138.
- Grand Rapids formation, Cretaceous, Alberta: McLearn, 1198.
- Grand Tower limestone, Devonian, Illinois: Savage, 1604, 1605; Weller *et al.*, 1973.
- Graneros shale, Cretaceous, Kansas: Darton, 462; Snider, 1736.
- Graneros shale, Cretaceous, New Mexico: Garrett, 640.

- Graneros shale, Cretaceous, South Dakota : Darton, 461.
- Graneros shale, Cretaceous, Wyoming : Hancock, 735, 736.
- Graneros shale member, Cretaceous, Kansas : Moore, 1346.
- Granite Mountain porphyry, Arizona : Ransome, 1507.
- Grapevine sandstone, Pennsylvanian, West Virginia : Reger, 1528.
- Graphic terrane, Proterozoic, New Mexico : Keyes, 993.
- Grayhorse limestone, Pennsylvanian, Oklahoma : Bowen *et al.*, 172.
- Grayson formation, Comanchean, Texas : Adkins, 6.
- Grayson formation, Cretaceous, Texas : Adkins and Winton, 7.
- Grayson marl, Cretaceous, Texas : Winton and Adkins, 2062.
- Grayson marls, Comanchean, Texas : Snider, 1736.
- Great Smoky formation, Cambrian, Georgia : McCallie, 1159.
- Greenbrier limestone, Mississippian, West Virginia : Reger, 1528.
- Greencastle bed, Ordovician, Maryland : Bassler, 90.
- Greendale bed, Ordovician, Kentucky : Miller, 1293.
- Greene formation, Permian, Ohio : Stauffer and Schroyer, 1757.
- Greenhorn limestone, Cretaceous, Kansas : Darton, 462; Snider, 1736.
- Greenhorn limestone, Cretaceous, New Mexico : Garrett, 640.
- Greenhorn limestone, Cretaceous, South Dakota : Darton, 461.
- Greenhorn limestone, Cretaceous, Wyoming : Hancock, 735, 736.
- Greenhorn limestone member, Cretaceous, Kansas : Moore, 1346.
- Greenleaf sandstone, Cretaceous, Kansas : Twenhofel, 1871.
- Green River formation, Eocene, Colorado : Lunt, 1149.
- Green River formation, Tertiary, Wyoming : Schultz, 1639.
- Green River formation, Wyoming : Schramm, 1622.
- Greer formation, Permian, Kansas : Moore, 1346; Snider, 1736.
- Greer formation, Permian, Texas : Beede, 109; Gould, 678.
- Greer terrane, Permian, New Mexico : Keyes, 993.
- Grenville, pre-Cambrian, Ontario : Miller and Knight, 1201, 1202.
- Grenville series, pre-Cambrian, New York : Alling, 26, 28; Miller, 1302, 1303, 1309.
- Grenville series, pre-Cambrian, Quebec : Cooke, 401; Wilson, 2051.
- Grimsby sandstone member, Silurian, Ontario : Williams, 2034.
- Grizzly Bear formation, Cretaceous, Alberta : Slipper, 1712.
- Grizzly Peak rhyolite, Tertiary, Colorado : Howell, 874.
- Gros Ventre formation, Cambrian, Wyoming : Collier, 389.
- Guadaloupan series, Permian, New Mexico : Keyes, 993.
- Guayama series, Comanchean or Cretaceous, Porto Rico : Hodge, 837.
- Gublik sand, Pleistocene, Alaska : Dall, 451.
- Guelph formation, Silurian, Ontario : Williams, 2034.
- Gundlint formation, pre-Cambrian, Minnesota : Broderick, 198.
- Gunsight formation, Pennsylvanian, Texas : Plummer, 1475.
- Gunsight limestone, Pennsylvanian, Texas : Snider, 1736.
- Gunter sandstone, Cambrian, Missouri : Dake, 441.
- Gurabo formation, Miocene, Dominican Republic : Cooke, 400; Maury, 1249.
- Guyandot sandstone, Pennsylvanian, West Virginia : Hennen, 797; Reger, 1528.
- Guyandot (Lower) sandstone, Pennsylvanian, West Virginia : Hennen, 797.
- Hackberry shale, Permian, Kansas : Snider, 1736.
- Hackberry stage, Devonian, Iowa : Fenton, 580.
- Hague gneiss, pre-Cambrian, New York : Alling, 28.
- Halleyburian, pre-Cambrian, Ontario : Miller and Knight, 1301, 1302.
- Halleybury formation, Ordovician, Ontario : Hume, 881.
- Hale formation, Pennsylvanian, Arkansas : Miser, 1319.
- Halifax slate formation, Nova Scotia : Faribault, 572.
- Hamden limestone, Pennsylvanian, Ohio : Stout, 1794.
- Hampton shale, Cambrian, Virginia : Stose *et al.*, 1736.
- Hanbury formation, pre-Cambrian, Michigan : Allen, 25.
- Hannibal formation, Mississippian, Missouri : Dake, 441.
- Hanover shale, Devonian, New York : Chadwick, 308; Hussakof and Bryant, 884.
- Haragan marl, Devonian, Oklahoma : Decker, 483.
- Hardin sandstone member, Mississippian, Tennessee : Galloway, 633.
- Hardinsburg, Mississippian, Kentucky : Miller, 1293.
- Hardinsburg sandstone, Mississippian, Illinois : Weller, 1974; Weller *et al.*, 1973.
- Hardinsburg sandstone, Mississippian, Indiana : Malott and Thompson, 1206.
- Hardinsburg sandstone, Mississippian, Tennessee : Butts, 258.
- Harper sandstone, Permian, Kansas : Snider, 1736.
- Harper sandstone member, Permian, Kansas : Moore, 1346.

- Harpers shale, Cambrian, Maryland: Bassler, 90.
- Harricaw series, pre-Cambrian, Quebec: Tanton, 1813.
- Harriman novaculite, Devonian, Tennessee: Dunbar, 525.
- Harrison beds, Miocene, South Dakota: O'Harra, 1389.
- Harrodsburg, Mississippian, Kentucky: Miller, 1293.
- Harrodsburg limestone, Mississippian, Indiana: Logan, 1120.
- Hartridge black shale, Pennsylvania, West Virginia: Hennen, 797; Reger, 1528.
- Hartselle sandstone, Mississippian, Mississippi: Lowe, 1138.
- Hartshorne sandstone, Pennsylvanian, Arkansas: Miser, 1319.
- Hartshorne sandstone, Pennsylvanian, Oklahoma: Snider, 1736.
- Harvey conglomerate sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Hatchetigbee formation, Tertiary, Alabama: Brantley, 191.
- Hatchetigbee or Granada beds, Tertiary, Mississippi: Lowe, 1138.
- Hattiesburg clay, Tertiary, Alabama: Brantley, 191.
- Hattiesburg clay, Tertiary, Mississippi: Lowe, 1138.
- Hatton tuff lentil, Mississippian, Arkansas and Oklahoma: Miser, 1318.
- Hawkeye granite, pre-Cambrian, New York: Miller, 1305, 1309.
- Hawkins terrane, Cambrian, New Mexico: Keyes, 993.
- Hay Hollow sandstone, Pennsylvanian, Oklahoma: Goldman and Robinson, 667.
- Haymond formation, Pennsylvanian, Texas: Böse, 161.
- Hazelton series, Jurassic, British Columbia: O'Neill, 1390.
- Helderbergian series, Devonian, Illinois: Savage, 1604.
- Helms group, Mississippian, Texas: Beede, 110.
- Henryhouse shale, Silurian, Oklahoma: Decker, 483.
- Herington limestone, Permian, Kansas: Snider, 1736.
- Herington limestone, Permian, Oklahoma: Bowen *et al.*, 172.
- Herington limestone member, Permian: Kansas: Moore, 1346.
- Herkimer limestone, Cambrian, Utah: Lindgren and Loughlin, 1104; Wichman, 2024.
- Hermitage formation, Ordovician, Tennessee: Galloway, 633.
- Hermitage substage, Ordovician, Kentucky: Miller, 1293.
- Hermosa formation, Pennsylvanian, Colorado: Coffin, 375.
- Hertha limestone, Pennsylvanian, Iowa: Tilton, 1846.
- Hertha limestone, Pennsylvanian, Kansas: Moore and Elledge, 1347; Snider, 1736.
- Hertha limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Hess formation, Permo-Carboniferous, Texas: Böse, 161.
- Heuvelton sandstone, Cambrian, New York: Chadwick, 310.
- Hewittville beds, Ordovician, New York: Chadwick, 310.
- Hickory sandstone, Cambrian, Texas: Snider, 1736.
- Hidden Treasure limestone, Mississippian, Utah: Wichman, 2024.
- Higham grit, Triassic (?), Idaho: Mansfield, 1211, 1214, 1216.
- Highbridge stage, Ordovician, Kentucky: Miller, 1293.
- High Rock sandstone, Carboniferous, Kentucky: Browning and Russell, 206.
- Hilliard shale, Cretaceous, Wyoming: Schultz, 1639.
- Hindsville limestone member, Mississippian, Arkansas: Miser, 1319.
- Hinton formation, Mississippian, Virginia: Harnsberger, 749.
- Hinton limestone, Mississippian, West Virginia: Reger, 1528.
- Hoffman limestone, Pennsylvanian, Maryland: Swartz, 1804.
- Hogshooter gas sand, Carboniferous, Oklahoma: Berger, 123.
- Hogshooter limestone, Pennsylvanian, Oklahoma: Ross, 1578; Snider, 1736.
- Hoing [oil] sand, Niagaran, Illinois: Coryell, 410.
- Holdenville shale, Pennsylvanian, Oklahoma: Snider, 1736.
- Holtsclaw, Mississippian, Kentucky: Miller, 1293.
- Holly Springs sands, Tertiary, Mississippi: Lowe, 1138.
- Homewood sandstone, Pennsylvanian, West Virginia: Reger, 1528.
- Homewood (Roaring Creek) sandstone, Pennsylvanian, West Virginia: Hennen, 797.
- Homewood (Tionesta) sandstone, Pennsylvania, Ohio: Stout, 1794.
- Hot Springs sandstone, Mississippian, Arkansas: Miser, 1319.
- Houten terrane, Cenozoic (Tertiary), New Mexico: Keyes, 993.
- Howard limestone, Pennsylvanian, Kansas: Snider, 1736.
- Howard limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Hulah sandstone, Pennsylvanian, Oklahoma: Goldman and Robinson, 667.
- Humbug formation, Mississippian, Utah: Lindgren and Loughlin, 1105.
- Hundred sandstone, Permian, Ohio: Stauffer and Schroyer, 1757.
- Huron shale, Ohio: Decker, 483.
- Huronian series, pre-Cambrian, Minnesota: Groul and Broderick, 716.

- Huronian (Lower) group, pre-Cambrian, Michigan: Allen, 25.
- Huronian (Upper) group, pre-Cambrian, Michigan: Allen, 25.
- Hygiene sandstone member, Cretaceous, Colorado: Henderson, 794.
- Jaeger (Lower) shale, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Jaeger (Middle) sandstone, Pennsylvanian, West Virginia: Reger, 1528.
- Jaeger (Upper) shale, Pennsylvanian, West Virginia: Reger, 1528.
- Jatan (?) limestone, Carboniferous, Oklahoma: Goldman, 665.
- Jatan limestone, Pennsylvanian, Kansas: Boughton, 170; Snider, 1736.
- Jatan limestone, Pennsylvanian, Oklahoma: Goldman and Robinson, 667.
- Jatan limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Idaho formation, Pliocene, Oregon: Smith and Packard, 1728.
- Idaho formation, Quaternary, Idaho: Hay, 767.
- Ignek formation, Jurassic (?), Alaska: Leffingwell, 1074.
- Illinoian drift, Pleistocene: Baker, 56.
- Illinoian drift, Pleistocene, Illinois: Hinds, 832.
- Illinoian drift sheet, Quaternary, Ohio: Stout, 1794.
- Independence shale, Devonian, Iowa: Norton 1381; Thomas, 1835.
- Indian Falls stage, Silurian, Kentucky: Miller, 1293.
- Indian Hollow sands (Upper and Lower), Pleistocene, Pennsylvania; Williams, 2032.
- Indian Springs shale, Mississippian, Indiana: Malott and Thompson, 1206.
- Iola limestone, Pennsylvanian, Kansas: Snider, 1736.
- Iola limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Ione formation, Eocene, California: Clark, 341.
- Iowa series, Mississippian, Illinois: Weller, 1974.
- Iowa series, Mississippian, Illinois, Iowa and Missouri: Weller, 1975.
- Iowan drift, Pleistocene: Baker, 56.
- Irasburg conglomerate, Ordovician, Vermont: Richardson, 1544, 1545.
- Irondale limestone, Pennsylvanian, Maryland: Swartz, 1804.
- Irondequoit dolomite member, Silurian, Ontario: Williams, 2034.
- Ironside formation, Pliocene, Oregon: Smith and Packard, 1728.
- Ironwood formation, pre-Cambrian, Wisconsin and Michigan: Hotchkiss, 865.
- Jackfork sandstone, Mississippian, Arkansas: Miser, 1319.
- Jacksboro limestone, Pennsylvanian, Texas: Plummer, 1475.
- Jackson formation, Tertiary, Alabama: Brantley, 191.
- Jackson formation, Tertiary, Mississippi: Lowe, 1140.
- Jackson formation, Tertiary, Texas: Dumble, 524; Udden, 1880.
- Jackson group, Eocene, Texas: Snider, 1736.
- Jackson group, Tertiary, Mississippi: Lowe, 1138.
- Jacksonville formation, Miocene, Florida: Sellards, 1647, 1648.
- Jasper limestone, Ordovician, Arkansas: Miser, 1319.
- Jefferson limestone, Devonian, Idaho: Mansfield, 1211.
- Jefferson City dolomite, Ordovician, Arkansas: Miser, 1319.
- Jefferson City dolomite, Ordovician, Missouri: Branson, 190.
- Jenkins shale, Permian, Kansas: Snider, 1736.
- Jenkins shale member, Permian, Kansas: Moore, 1346.
- Jessamine substage, Ordovician, Kentucky: Miller, 1293.
- Joachim dolomite, Ordovician, Missouri: Branson, 190.
- Joachim formation, Ordovician, Missouri: Dake, 441.
- Joachim limestone, Ordovician, Arkansas: Miser, 1319, 1320.
- John Day series, Oligocene, Oregon: Smith and Packard, 1728.
- Johnsburg limestone, pre-Cambrian, New York: Alling, 28.
- Jollytown sandstone, Permian, Ohio: Stauffer and Schroyer, 1757.
- Jones sand, Mississippian, Texas: Matteson, 1231.
- Jonesburg sandstone, Carboniferous, Oklahoma: Goldman, 665.
- Jordan formation, Cambrian, Wisconsin: Twenhofel and Thwaites, 1870.
- Jordan sandstone, Cambrian, Minnesota: Grout and Soper, 715.
- Jornadan series, Present, New Mexico: Keyes, 993.
- Josephine formation, Carboniferous or pre-Carboniferous, British Columbia: Schofield, 1617.
- Josephine formation, Paleozoic, British Columbia: Schofield, 1619.
- Juana Diaz shale, Porto Rico: Hubbard, 877.
- Juana Diaz marls, Tertiary, Porto Rico: Berkey, 124; Mairy, 1248.
- Juan Ascencio chert beds, Cretaceous (?), Porto Rico: Semmes, 1655.
- Judith River formation, Cretaceous, Montana: Bowen, 171; Hancock, 734.
- Jumbo volcanics, Tertiary, Washington: Weaver, 1970.
- Juniata formation, Ordovician, Maryland: Bassler, 90.
- Kalbab limestone, Permian, Arizona: Shimer, 1693.
- Kaminis granite, pre-Cambrian, Manitoba: Hanson, 744.

- Kanawha black flint, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Kanawha group, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Kansan drift, Pleistocene: Baker, 56.
- Kansan (?) drift, Pleistocene, Illinois: Hinds, 832.
- Kansan drift, Pleistocene, Minnesota: Sardeson, 1600.
- Kansan stage, Pleistocene, Iowa: Arey, 35, 36; Tilton, 1846, 1847.
- Kansas City division, Pennsylvanian, Iowa: Arey, 35.
- Kansas City formation, Pennsylvanian, Kansas: Boughton, 170; Moore, 1346, Moore and Elledge, 1347; Snider, 1736.
- Kanwaka shale, Pennsylvanian, Kansas: Snider, 1736.
- Kanwaka shale member, Pennsylvanian, Kansas: Moore, 1346.
- Kaslo schists, Jurassic, British Columbia: Bancroft, 66.
- Keene gneiss, pre-Cambrian, New York: Miller, 1303, 1304.
- Keewatin, pre-Cambrian, Ontario: Burrows and Hopkins, 246; Miller and Knight, 1301, 1302.
- Keewatin series, pre-Cambrian, Ontario: Knight *et al.*, 1015.
- Keg Creek formation, Tertiary, Georgia: McCallie, 1159.
- Kelly limestone, Mississippian, New Mexico: Wells, 1978.
- Kendrick shale, Carboniferous, Kentucky: Jillson, 861, 872.
- Kennecott formation, Jurassic, Alaska: Bateman and McLaughlin, 98.
- Keokuk formation, Mississippian, Illinois: Nebel, 1367.
- Keokuk limestone, Mississippian, Illinois: Coryell, 410; Hinds, 832.
- Kessler limestone member, Pennsylvanian, Arkansas: Miser, 1319.
- Keweenawan, pre-Cambrian, Ontario: Miller and Knight, 1301, 1302.
- Keweenawan series, pre-Cambrian, Minnesota: Grout and Broderick, 716.
- Keweenawan series, Minnesota: Grout and Soper, 715.
- Key Largo limestone, Pleistocene, Florida: Sellards, 1647, 1648.
- Key West limestone, Pleistocene, Florida: Sellards, 1647, 1648.
- Kiamitia formation, Comanchean, Texas: Adkins, 6.
- Kiamitia formation, Cretaceous, Texas: Adkins and Winton, 7.
- Kiamitia marl, Cretaceous, Texas: Winton and Adkins, 2062.
- Kiask series, pre-Cambrian, Ontario: Cooke, 401.
- Kimmswick limestone, Ordovician, Arkansas: Miser, 1319, 1320.
- Kimmswick limestone, Ordovician, Missouri: Branson, 190; Foerste, 603.
- Kinderhook group, Mississippian, Illinois: Coryell, 410; Hinds, 832.
- Kinderhook group, Mississippian, Illinois and Missouri: Moore, 1343.
- Kinderhook stage, Mississippian, Kentucky: Miller, 1293.
- Kingak shale, Jurassic, Alaska: Leffingwell, 1074.
- Kingston series, Carboniferous, Rhode Island: Perkins, 1462.
- Kingston series, pre-Cambrian, New Brunswick: Bailey and Matthew, 52.
- Kinkaid limestone, Mississippian, Illinois: Weller, 1974; Weller *et al.*, 1973.
- Kiowa shale, Comanchean, Kansas: Snider, 1736.
- Kiowa shale, Cretaceous, Kansas: Moore, 1346.
- Kiowa shales and limestones, Cretaceous, Kansas: Twenhofel, 1871.
- Kiowa terrane, Comanchean, New Mexico: Keyes, 993.
- Kirby clays, Cretaceous, Kansas: Twenhofel, 1871.
- Kirkwood sand, Illinois: Cady, 270.
- Kiskapoo Falls limestone, Pennsylvanian, Texas: Plummer, 1475.
- Kiski volcanics, pre-Cambrian, Manitoba: Alcock, 10.
- Kisseynew gneisses, pre-Cambrian, Manitoba: Hanson, 744.
- Kitanning (Lower) clay, Pennsylvanian, Ohio: Stout, 1794.
- Kitanning (Upper) fire clay, Pennsylvanian, West Virginia: Reger, 1528.
- Kitanning (Lower) fire clay, Pennsylvanian, West Virginia: Reger, 1528.
- Kittery quartzite, Carboniferous (?), Maine and New Hampshire: Wandke, 1943.
- Knobstone sandstone, Mississippian, Indiana: Logan, 1120.
- Knox dolomite, Cambrian, Georgia: McCallie, 1159.
- Knox dolomite, Cambrian and Ordovician, Georgia: Hull *et al.*, 878.
- Kootenai (?) formation, Cretaceous, Montana: Bowen, 171.
- Kootenai formation, Cretaceous, Montana: Hancock, 734.
- Kootenay formation, Cretaceous, Alberta: MacVicar, 1196; Rose, 1576; Slipper, 1712; Stewart, 1766.
- Kootenay formation, Jurassic, Alberta: Rose, 1575.
- Krao limestone, British Columbia: Schofield, 1619.
- Labadie limestone, Pennsylvanian, Oklahoma: Robinson and Mills, 1559, 1560.
- Labette shale, Pennsylvanian, Kansas and Oklahoma: Snider, 1736.
- Labette shale member, Pennsylvanian, Kansas: Moore, 1346.
- La Biche formation, Cretaceous, Alberta: McLearn, 1188.
- La Biche shales, Cretaceous, Alberta: Allan, 20.

- La Cygne shale member, Pennsylvanian, Kansas: Moore, 1346.
- Ladore shale, Pennsylvanian, Iowa: Tilton, 1846.
- Ladore shale, Pennsylvanian, Kansas: Snider, 1736.
- Ladore shale member, Pennsylvanian, Kansas: Moore, 1346.
- Ladronesian series, Pennsylvanian, New Mexico: Keyes, 993.
- Lafayette formation, Pliocene, Kentucky: Miller, 1293.
- Lafayette formation, Pliocene, Tennessee: Schroeder, 1623.
- Lafayette formation, Pliocene and (?) Pleistocene, Alabama: Brantley, 191.
- Lafayette formation, Tertiary, Texas: Dumble, 524.
- Lafferty limestone, Silurian, Arkansas: Miser, 1319, 1320.
- Lagarto beds, Tertiary, Texas: Barton, 85.
- Lagarto formation, Tertiary, Texas: Dumble, 524.
- LaGrange formation, Eocene, Kentucky: Miller, 1293.
- Lagrange formation, Eocene, Tennessee: Schroeder, 1623.
- La Jara terrane, Cretaceous, New Mexico: Keyes, 993.
- Lake Bonneville beds, Utah: Lindgren and Loughlin, 1105.
- Lake Flirt marl, Quaternary, Florida: Selrards, 1646.
- Laketown dolomite, Silurian, Idaho: Mansfield, 1211.
- Lake Valley terrane, Mississippian, New Mexico: Keyes, 993.
- Lakota sandstone, Cretaceous, Wyoming: Hancock, 735, 737.
- Lamotte sandstone, Cambrian, Missouri: Dake, 441.
- La Muda limestone, Cretaceous (?), Porto Rico: Semmes, 1655.
- La Muda limestone, Porto Rico: Berkey, 124.
- Lana conglomerate, Vermont: Foye, 620.
- Lance formation, Cretaceous or Tertiary, North Dakota: Leonard, 1082.
- Lance formation, Eocene (?), South Dakota: Darton, 461.
- Lance formation, Tertiary (?), Montana: Bowen, 171; Hancock, 734.
- Lance formation, Tertiary (?), North and South Dakota: Stanton, 1756.
- Lance formation, Tertiary (?), Wyoming: Hancock 735.
- Lane shale, Pennsylvanian, Kansas: Snider, 1736.
- Lane shale member, Pennsylvanian, Kansas: Moore, 1346.
- Laney shale member, Tertiary, Wyoming: Schultz, 1639.
- Langston formation, Cambrian, Idaho: Mansfield, 1211.
- Lansing formation, Pennsylvanian, Kansas: Boughton, 170; Moore, 1346; Moore and Elledge, 1347; Snider, 1736.
- Laona sandstone, Devonian, New York: Hussakof and Bryant, 884.
- Lapara formation, Tertiary, Texas: Barton, 85; Dumble, 524.
- La Plata formation, Jurassic, Colorado: Coffin, 375.
- La Plata terrane, Jurassic, New Mexico: Keyes, 993.
- Laramian series, Cretaceous, New Mexico: Keyes, 993.
- Laramie formation, Cretaceous, Colorado: Crawford *et al.*, 416; Henderson, 794, 795.
- Laramie formation, Cretaceous, Utah: Forrester, 610.
- "Laramie" formation, Cretaceous, Wyoming: Schultz, 1639.
- Lares formation, Tertiary, Porto Rico: Hubbard, 877.
- Lares shales, Tertiary, Porto Rico: Maury, 1248.
- Las Cascadas agglomerate, Eocene (?), Canal Zone: MacDonald, 1170.
- Las Salinas formation, Miocene, Dominican Republic: Cooke, 400.
- La Salle limestone, Carboniferous, Illinois: Cady, 267.
- La Salle limestone, Pennsylvanian, Illinois: Cady, 268.
- Las Matas gravels, Pliocene, Dominican Republic: Cooke, 400.
- Lauderdale chert, Mississippian: Mississippi: Lowe, 1138.
- Laurel limestone, Silurian, Kentucky: Miller, 1293.
- Laurel limestone, Silurian, Tennessee: Mather, 1227.
- Laurentian, pre-Cambrian, Canada: Cooke, 407.
- Laurentian, pre-Cambrian, Ontario: Miller and Knight, 1301, 1302.
- Laurentian granite, pre-Cambrian, New York: Alling, 28.
- Lawrence shale, Pennsylvanian, Kansas: Boughton, 170; Snider, 1736.
- Lawrence shale member, Pennsylvanian, Kansas: Moore, 1346.
- Lead Point argillite, Paleozoic, Washington: Weaver, 1970.
- Lea Park formation, Cretaceous, Alberta: Slipper, 1712.
- Lebanon formation, Ordovician, Tennessee: Galloway, 633.
- Lebo member, Tertiary, Montana: Hancock, 734.
- Lecompton limestone, Pennsylvanian, Kansas: Snider, 1736.
- Lecompton (?) limestone, Pennsylvanian, Oklahoma: Bowen *et al.*, 172.
- Lecompton limestone, Pennsylvanian, Oklahoma: Heald, 777.
- Lecompton limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Lee formation, Pennsylvanian, Virginia: Harnsberger, 749.
- Leipers formation, Ordovician, Tennessee: Galloway, 633.

- Lenapah limestone, Pennsylvanian, Oklahoma: Snider, 1736.
- Lenapah limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Leona formation, Pleistocene, Texas: Sellards, 1653.
- Leonard formation, Carboniferous, Texas: Beede, 111.
- Leonard formation, Permian, Texas: Beede, 109.
- Leonard formation, Permo-Carboniferous, Texas: Böse, 161.
- Le Roux terrane, Triassic, New Mexico: Keyes, 993.
- Lewis formation, Cretaceous, Colorado: Perini and Collins, 1461.
- Lewis shale, Cretaceous, Colorado: Crawford *et al.*, 416.
- Lewis shale, Cretaceous, Wyoming: Schultz, 1639.
- Lewis terrane, Cretaceous, New Mexico: Keyes, 993.
- Lewiston limestone, Devonian, Virginia: Holden, 845.
- Lewisville beds, Cretaceous, Texas: Shuler, 1696.
- Lexington limestone, Ordovician, Kentucky: Jillson, 918.
- Lexington stage, Ordovician, Kentucky: Miller, 1293.
- Liberty, Ordovician, Kentucky: Miller, 1293.
- Lilley member of the West Union formation, Silurian, Ohio: Foerste, 598, 599.
- Lime Creek stage, Devonian, Iowa: Fenton, 580.
- Linden group, Devonian, Tennessee: Dunbar, 525.
- Lingle limestone, Devonian, Illinois: Savage, 1604, 1605.
- Lisbon formation, Tertiary, Alabama: Brantley, 191.
- Lisbon formation, Tertiary, Mississippi: Lowe, 1138.
- Lisburne limestone, Mississippian, Alaska: Leffingwell, 1074.
- L'Islet formation, Cambrian, Quebec: Knox, 1030.
- Lissie formation, Quaternary, Texas: Hay, 767.
- Little Falls (?) dolomite, Cambrian, New York: Miller, 1304.
- Little Hominy limestone, Pennsylvanian, Oklahoma: Heald and Mather, 780.
- Little River group, Siluro-Bo-Devonian, New Brunswick: Bailey and Matthew, 52.
- Llano Estacado terrane, Pliocene, New Mexico: Keyes, 993.
- Llanos formation, Pleistocene (?), Trinidad: Macready, 1195.
- Lockport dolomite, Silurian, New York: Giles, 651.
- Lockport dolomite formation, Silurian, Ontario: Williams, 2034.
- Lockport formation, Silurian, Ontario: Hume, 881.
- Logan formation, Mississippian, Ohio: Stout, 1794.
- Logan stage, Mississippian, Kentucky: Miller, 1293.
- Loganian, pre-Cambrian, Ontario: Miller and Knight, 1301, 1302.
- Lone terrane, Cambrian, New Mexico: Keyes, 993.
- Longdale limestone, Devonian, Virginia: Holden, 845.
- Long Rapids shale, Devonian, Canada: Savage and Van Tuyl, 1603.
- Lonsdale limestone, Carboniferous, Illinois: Cady, 267.
- Lookout formation, Carboniferous, Georgia: McCallie, 1159.
- Loon Lake granite, Mesozoic, Washington: Weaver, 1970.
- Loon River formation, Cretaceous, Alberta: McLearn, 1187, 1188.
- Loretto slate, pre-Cambrian, Michigan: Allen, 25.
- Los Puertos limestone, Tertiary, Porto Rico: Hubbard, 877.
- Lost City limestone, Pennsylvanian, Oklahoma: Bloesch, 155.
- Lost Gulch monzonite, post-Paleozoic, Arizona: Ransome, 1507.
- Lostmans River limestone, Pleistocene, Florida: Sellards, 1647, 1648.
- Loudon formation, Cambrian, Maryland: Bassler, 90.
- Louisian, Carboniferous, Mississippi Valley: Keyes, 989, 999.
- Louisville limestone, Silurian, Kentucky: Miller, 1293.
- Louisville limestone, Silurian, Tennessee: Mather, 1227.
- Loveland formation, Pleistocene: Baker, 56.
- "Lower Magnesian" limestone, Illinois: Cady, 270.
- Lower Magnesian limestone, Ordovician, Indiana: Logan, 1120.
- Lowville limestone, Ordovician, New York: Decker, 483.
- Loxley terrace, Tertiary, Mississippi: Lowe, 1138.
- Loysburg formation, Ordovician, Pennsylvania: Field, 590.
- Ludlow lignitic member, Cretaceous or Tertiary, North Dakota: Leonard, 1082.
- Ludlow lignitic member, Tertiary (?), North and South Dakota: Stanton, 1756.
- Lulbegrud shale, Silurian, Kentucky: Miller, 1293.
- Lunasan series, Pennsylvanian, New Mexico: Keyes, 993.
- Luta limestone, Permian, Kansas: Snider, 1736.
- Luta limestone member, Permian, Kansas: Moore, 1346.
- Lyell formation, Cambrian, Alberta: Walcott, 1928.
- Lykins formation, Permo-Triassic (?), Colorado: Henderson, 795.
- Lyon Mountain granite, pre-Cambrian, New York: Miller, 1305, 1309.

- Lyons formation, Pennsylvanian, Colorado: Henderson, 795.
- McAlester group, Pennsylvanian, Arkansas: Miser, 1319.
- McAlester shale, Pennsylvanian, Oklahoma: Snider, 1736.
- McBean formation, Tertiary, Georgia: McCally, 1159.
- McCarthy shale, Triassic, Alaska: Bateman and McLaughlin, 98.
- McCune limestone, Ordovician, Missouri: Foerste, 603.
- McElmo formation, Cretaceous (?), Utah: Clark, 344.
- McElmo formation, Jurassic or Cretaceous, Colorado: Coffin, 375.
- McElmo formation, Lower Cretaceous or Jurassic, Utah: Dake, 443.
- McElmo terrane, Jurassic, New Mexico: Keyes, 993.
- McKittrick group, Tertiary, California: Pack, 1416.
- McLeansboro formation, Carboniferous, Illinois: Cady, 267, 268.
- McMurray tar sands, Cretaceous, Alberta: McLearn, 1188.
- McNairy sand, Cretaceous, Mississippi: Lowe, 1138.
- McNairy sand member, Cretaceous, Tennessee: Schroeder, 1623; Wade, 1922.
- McPherson formation, Pleistocene, Kansas: Moore, 1346.
- Madera limestone, Pennsylvanian, New Mexico: Wells, 1978.
- Maderan series, Permian, New Mexico: Keyes, 993.
- Madison (?) formation, Cambrian, Wisconsin: Twenhofel and Thwaites, 1870.
- Madison limestone, Carboniferous, Montana: Westgate, 1985.
- Madison limestone, Mississippian, Idaho: Mansfield, 1211, 1216.
- Madison limestone, Mississippian, Montana: Condit, 395.
- Madison limestone, Mississippian, Wyoming: Collier, 389.
- Magdalena beds, Pennsylvanian, Texas: Beede, 111.
- Magdalena group, Pennsylvanian, New Mexico: Baker, 55; Garrett, 640; Semmes, 1658; Wells, 1978.
- Magdalena group, Pennsylvanian, Texas: Beede, 110.
- Magothy formation, Cretaceous, Maryland and Delaware: Bascom and Miller, 86.
- Mahoning limestone, Pennsylvanian, Ohio: Stout, 1794.
- Mahoning (Lower) sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Mahoning (Lower) sandstone, Pennsylvanian, West Virginia: Reger, 1528.
- Mahoning (Upper) sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Mahoning (Upper) sandstone, Pennsylvanian, West Virginia: Reger, 1528.
- Mainstreet formation, Comanchean, Texas: Adkins, 6.
- Mainstreet formation, Cretaceous, Texas: Adkins and Winton, 7; Winton and Adkins, 2062.
- Mainstreet limestone, Comanchean, Texas: Snider, 1736.
- Mammoth Cave limestone series, Mississippian, Kentucky: Miller, 1293.
- Mancos formation, Cretaceous, Colorado: Perini and Collins, 1461.
- Mancos formation, Cretaceous, New Mexico: Baker, 55.
- Mancos shale, Cretaceous, Colorado: Collier, 386; Crawford *et al.*, 416.
- Mancos shale, Cretaceous, New Mexico: Wells, 1978.
- Mancos shale, Cretaceous, Utah: Clark, 344.
- Mangas terrane, Cambrian, New Mexico: Keyes, 993.
- Manistique dolomite, Michigan: Ehlers, 539.
- Manistique formation, Silurian, Michigan: Ehlers, 540.
- Manitoulin member, Silurian, Ontario: Williams, 2034.
- Mankomen formation, Carboniferous, Alaska: Chapin, 330.
- Manlius limestone, Silurian, New York: Jones, 951.
- Manning beds, Tertiary, Texas: Dumble, 524.
- Mannington sandstone, Permian, Ohio: Stauffer and Schroyer, 1757.
- Mansfield sandstone, Pennsylvanian, Indiana: Malott, 1205.
- Manzano group, Carboniferous, New Mexico: Baker, 55.
- Manzano group, Pennsylvanian, Texas: Beede, 111.
- Manzano group, Permian, New Mexico: Lee, 1063; Wells, 1978.
- Manzano group, Permian, Texas: Beede, 110.
- Manzano terrane, Permian, New Mexico: Keyes, 993.
- Mao adentro limestone, Miocene, Dominican Republic: Cooke, 400.
- Maquoketa formation, Ordovician, Illinois: Cady, 267.
- Maquoketa shale, Ordovician, Minnesota: Grout and Soper, 715.
- Marble Canyon formation, Carboniferous, British Columbia: Reinecke, 1538.
- Marble Falls limestone, Carboniferous, Texas: Udden, 1887.
- Marble Falls limestone, Mississippian, Texas: Matteson, 1231.
- Marble Falls limestone, Pennsylvanian, Texas: Girty, 659; Moore, 1344; Plummer, 1475; Snider, 1736.
- Marble Falls series, Pennsylvanian, Texas: Girty and Moore, 660.
- Marcy anorthosite, pre-Cambrian, New York: Miller, 1303, 1304.
- Marianna limestone, Tertiary, Alabama: Brantley, 191.
- Marianna limestone, Tertiary, Mississippi: Lowe, 1188.

- Maricopa shale, Miocene, California: Pack, 1415.
- Marietta (Lower) sandstone, Permian, Ohio: Stauffer and Schroyer, 1757.
- Marietta (Upper) sandstone, Permian, Ohio: Stauffer and Schroyer, 1757.
- Marine formation, Tertiary, Texas: Dumble, 524.
- Marion formation, Permian, Kansas: Moore, 1346; Snider, 1736.
- Marks Head marl, Miocene, Georgia: Vaughan, 1910.
- Marks Head marl, Tertiary, Georgia: McCallie, 1159.
- Marland sand, Oklahoma: Aurin, 50.
- Marlbrook marl, Cretaceous, Arkansas: Miser, 1319.
- Marmaton formation, Pennsylvanian, Kansas: Boughton, 170; Moore, 1346; Moore and Elledge, 1347; Snider, 1736.
- Martin limestone, Devonian, Arizona: Mitchell, 1322; Ransome, 1507.
- Martinez formation, Eocene, California: Kew, 979.
- Martinez group, Eocene, California: Clark, 341.
- Martinian series, Devonian, New Mexico: Keyes, 993.
- Martinsburg shale, Ordovician, Maryland: Bassler, 90.
- Mascall^o formation, Miocene, Oregon: Smith and Packard, 1728.
- Massillon sandstone, Pennsylvania, Ohio: Stout, 1794.
- Matawan formation, Cretaceous, Maryland and Delaware: Bascom and Miller, 86.
- Matfield shale, Permian, Kansas: Snider, 1736.
- Matfield shale member, Permian, Kansas: Moore, 1346.
- Mattagami series, pre-Cambrian, Quebec: Cooke, 401.
- Mauch Chunk, Carboniferous, Kentucky: Jillson, 918.
- Mauch Chunk series, Mississippian, West Virginia: Hennen, 797; Reger, 1528.
- Maxville limestone, Mississippian, Ohio: Stout, 1794.
- Maxwell terrane, Cenozoic (Tertiary), New Mexico: Keyes, 993.
- Maya terrane, Cenozoic (Tertiary), New Mexico: Keyes, 993.
- Mayaguez shales, Porto Rico: Berkey, 124.
- Mayes formation, Mississippian, Oklahoma: Snider, 1736.
- Maysville group, Ordovician, Tennessee: Butts, 258.
- Maysville stage**, Ordovician, Kentucky: Miller, 1293.
- Mazarn shale, Ordovician, Arkansas: Miser, 1319.
- Mazomanie sandstone, Cambrian, Wisconsin: Ulrich, 1891.
- Medicine beds, Cretaceous, Kansas: Twenhofel, 1871.
- Medicine Lodge gypsum, Permian, Kansas: Snider, 1736.
- Medicine Lodge gypsum member, Permian, Kansas: Moore, 1346.
- Medina-Cataract formation, Silurian, Ontario: Williams, 2034.
- Meganos group, Eocene, California: Clark, 341, 342.
- Memphremagog slates, Ordovician, Vermont: Richardson, 1544, 1545, 1546.
- Menard, Mississippian, Kentucky: Miller, 1293.
- Menard limestone, Mississippian, Illinois: Weller, 1974; Weller *et al.*, 1973.
- Mendon series, Algonkian, Vermont: Foye, 620.
- Menefee formation, Cretaceous, Colorado: Collier, 386.
- Mentor beds, Cretaceous, Kansas: Twenhofel, 1871.
- Meramec group, Mississippian, Illinois: Hinds, 832; Weller *et al.*, 1973.
- Mercer (Lower) limestone, Pennsylvanian, Ohio: Stout, 1794.
- Mercer (Upper) limestone, Pennsylvanian, Ohio: Stout, 1794.
- Merom sandstone, Mississippian, Indiana: Logan, 1120.
- Mesaverde formation, Cretaceous, Colorado: Crawford *et al.*, 416; Perini and Collins, 1461.
- Mesaverde formation, Cretaceous, New Mexico: Wells, 1978.
- Mesaverde formation, Cretaceous, Wyoming: Collier, 388, 389; Schultz, 1639.
- Mesaverde granite, Cretaceous, Colorado: Collier, 386.
- Mesa Verde group, Cretaceous, Utah: Forrester, 610.
- Mescal limestone, Cambrian, Arizona: Ransome, 1507.
- Mesa Verde sandstone, Colorado: Haas, 727.
- Mesa Verde terrane, Cretaceous, New Mexico: Keyes, 993.
- Metchosin basalts, Eocene, British Columbia: Cooke, 402.
- Metchosin formation, Tertiary, British Columbia: Dolmage, 507.
- Meyersdale red shale, Pennsylvanian, Maryland: Swartz, 1804.
- Miami oolitic limestone, Pleistocene, Florida: Sellards, 1647, 1648.
- Miami limestone, Florida: Sellards, 1646.
- Middle Park formation, Tertiary, Colorado: Chamberlin, 312.
- Midway formation, Eocene, Texas: Sellards, 1653.
- Midway formation, Tertiary, Georgia: McCallie, 1159.
- Midway formation, Tertiary, Mississippi: Lowe, 1140.
- Midway formation, Tertiary, Texas: Dumble, 524; Udden, 1880.
- Midway group, Eocene, Texas: Snider, 1736.
- Midway group, Tertiary, Alabama: Brantley, 191.
- Midway group, Tertiary, Mississippi: Lowe, 1138.

- Miguel formation, Cretaceous, New Mexico: Winchester, 2061.
- Milford series, Jurassic, British Columbia: Bancroft, 66.
- Milk River sandstones, Cretaceous, Alberta: Slipper, 1712.
- Milliken sandstone, Cretaceous, Colorado: Henderson, 794.
- Million bed, Ordovician, Kentucky: Miller, 1293.
- Millsap division, Pennsylvanian, Texas: Plummer, 1475.
- Mimbresian series, Ordovician, New Mexico: Keyes, 993.
- Mineola limestone, Devonian, Missouri: Branson, 190.
- Mineral Wells sandstone, Pennsylvanian, Texas: Plummer, 1475.
- Minnekahta limestone, Permian (?), Wyoming: Hancock, 735.
- Minnelusa sandstone, Pennsylvanian, Wyoming: Hancock, 735.
- Misenheimer shale, Devonian, Illinois: Savage, 1604, 1605.
- Mispec group, Devonian, New Brunswick: Bailey and Matthew, 52.
- Mission argillite, Paleozoic, Washington: Weaver, 1970.
- Mission sandstone, Pennsylvanian, Oklahoma: Goldman and Robinson, 667.
- Missisquoi schists, Cambrian, Vermont: Richardson, 1546.
- Mississippian series, Carboniferous, Kentucky: Shaw and Mather, 1680.
- Missouri group, Pennsylvanian, Kansas: Moore, 1346; Snider, 1736.
- Missouri stage, Pennsylvanian, Iowa: Arey, 35, 36; Tilton, 1846, 1847.
- Missouri Mountain slate, Silurian, Arkansas: Miser, 1319.
- Mistassini limestone, pre-Cambrian, Quebec: Cooke, 401.
- Mitchell limestone, Mississippian, Indiana: Logan, 1120; Malott, 1205.
- Mitchell limestone group, Mississippian, Indiana: Malott and Thompson, 1206.
- Modelo formation, Miocene, California: Kew, 979.
- Modoc terrane, Mississippian, New Mexico: Keyes, 993.
- Moenkopi formation, Triassic, Arizona: Shimer, 1693.
- Moenkopi formation, Triassic, Utah: Clark, 344.
- Momable series, pre-Cambrian, Newfoundland: Buddington, 226.
- Mona shale, Oligocene, Panama and Costa Rica: MacDonald *et al.*, 1171.
- Monitor sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Monmouth formation, Cretaceous, Maryland and Delaware: Bascom and Miller, 86.
- Monongahela formation, Pennsylvanian, Maryland: Swartz, 1804.
- Monongahela formation, Pennsylvanian, Ohio: Stout, 1794.
- Monongahela series, Pennsylvanian, Kentucky: Miller, 1293.
- Monroe Creek beds, Miocene, South Dakota: O'Harra, 1389.
- Mons formation, Cambrian, Alberta: Walcott, 1928.
- Montana group, Cretaceous, Alberta: McLearn, 1187.
- Montana group, Cretaceous, Colorado: Henderson, 794.
- Montell sandstone, Pennsylvanian, Maryland: Swartz, 1804.
- Monterey group, Miocene, California: Kew, 979, 980.
- Monterey group, Tertiary, California: Pack, 1415.
- Monterey sandstone, Devonian, Virginia: Holden, 845.
- Monterey series, Tertiary, California: Stock, 1770.
- Montosa terrane, Pennsylvanian, New Mexico: Keyes, 993.
- Montoyan series, Ordovician, New Mexico: Keyes, 993.
- Moody's Branch marls, Tertiary, Mississippi: Lowe, 1138.
- Moorfield shale, Mississippian, Arkansas: Miser, 1319, 1320.
- Moran formation, Pennsylvanian, Texas: Plummer, 1475.
- Moran limestone, Pennsylvanian, Texas: Snider, 1736.
- Morgantown sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Morne l'Enfer formation, Tertiary, Trinidad: Macreadv, 1195.
- Morrison formation, Cretaceous, Colorado: Lee, 1067.
- Morrison (?) formation, Cretaceous (?), Montana: Hancock, 734.
- Morrison formation, Cretaceous (?), Wyoming: Collier, 389; Hancock, 735, 737.
- Morrison formation, Jurassic, New Mexico: Garrett, 640.
- Morrison formation, Jurassic or Cretaceous, Colorado: Henderson, 795.
- Morrisonian series, Jurassic, New Mexico: Keyes, 993.
- Morrow group, Pennsylvanian, Arkansas: Miser, 1319.
- Mosca terrane, Pennsylvanian, New Mexico: Keyes, 993.
- Mountain Glen shale, Devonian, Illinois: Savage, 1604, 1605.
- Mount Auburn, Ordovician, Kentucky: Miller, 1293.
- Mount Champion monzonite, pre-Cambrian, Colorado: Howell, 874.
- Mount Holley series, Algonkian, Vermont: Foye, 620.
- Mount Hope, Ordovician, Kentucky: Miller, 1293.
- Mount Marion beds, Devonian, New York: Grabau, 685.
- Mount Selman beds, Eocene, Texas: De Golyer, 485.

- Mount Selman formation, Eocene, Texas : Snider, 1736.
- Mount Selman formation, Tertiary, Texas : Dumble, 524; Udden, 1880.
- Mowry shale, Cretaceous, Wyoming : Collier, 389; Hancock, 735, 736.
- Muda limestone, Pleistocene (?). Porto Rico : Semmes, 1655.
- Murchison formation, Cambrian, Alberta : Walcott, 1928.
- Murfreesboro limestone, Ordovician, Tennessee : Galloway, 633.
- Murphy marble, Cambrian, Georgia : McCallie, 1159.
- Myrtle formation, Cretaceous, Oregon : Harrison and Eaton, 761; Smith and Packard, 1728.
- Nacatoch sand, Cretaceous, Arkansas : Miser, 1319.
- Nacatoch sand, Cretaceous, Texas : Dumble, 524.
- Nacimintan series, Eocene, New Mexico : Keyes, 993.
- Naco limestone, Pennsylvanian, Arizona : Mitchell, 1322.
- Nocogdoches formation, Tertiary, Texas : Dumble, 524.
- Naheola formation, Tertiary, Alabama : Brantley, 191.
- Naiad terrane, Silurian, New Mexico : Keyes, 993.
- Nanafalla formation, Tertiary, Alabama : Brantley, 191.
- Nanaimo formation, Cretaceous, British Columbia : Dolmage, 506.
- Nantahala slate, Cambrian, Georgia : McCallie, 1159.
- Naparima clay, Tertiary, Trinidad : Macready, 1195.
- Nashua formation, Pliocene, Florida : Sellards, 1647.
- Nashua marls, Tertiary, Florida : Sellards, 1648.
- Natchez formation, Pleistocene, Mississippi : Lowe, 1138.
- National River formation, Pennsylvanian, Alaska : Blackwelder, 151.
- Navajo sandstone, Jurassic, Utah : Clark, 344.
- Navajo terrane, Cretaceous, New Mexico : Keyes, 993.
- Navarro beds, Cretaceous, Texas : Udden, 1880.
- Navarro formation, Cretaceous, Texas : Dumble, 524; Sellards, 1650, 1653; Snider, 1736.
- Nebraska beds, Miocene, South Dakota : O'Harra, 1389.
- Nebraskan drift, Pleistocene : Baker, 56.
- Nebraskan stage, Pleistocene, Iowa : Arey, 35, 36; Tilton, 1846, 1847.
- Nelson batholith, Jurassic, British Columbia : Schofield, 1617.
- Nelson granite, Jurassic, British Columbia : Schofield, 1619.
- Nelson granodiorite, Jurassic, British Columbia : Bancroft, 66.
- Nelson River limestone, Ordovician, Canada : Savage and Van Tuyl, 1603.
- Nemenjish series (?), pre-Cambrian, Canada : Cooke, 401.
- Nemenjish series, pre-Cambrian, Quebec : Cooke, 407.
- Nenana gravel, Tertiary, Alaska : Capps, 291.
- Nerukopuk schist, pre-Cambrian, Alaska : Leffingwell, 1074.
- Neva limestone, Pennsylvanian, Kansas and Oklahoma : Snider, 1736.
- Neva limestone, Pennsylvanian, Oklahoma : Bowen *et al.*, 172.
- Neva limestone member, Pennsylvanian, Kansas : Moore, 1346.
- Newaukum series, pre-Puget in age, Washington : Culver, 428.
- New Glasgow series, Carboniferous, Nova Scotia : Hayes, 772.
- Newland formation, Algonkian, Idaho : Jones, 944.
- Newlon limestone and shale, Pennsylvanian, West Virginia : Reger, 1528.
- Newman limestone, Mississippian, Virginia : Harnsberger, 749.
- New Providence shale, Mississippian, Kentucky : Shaw and Mather, 1680.
- New Province shale, Mississippian, Tennessee : Butts, 258; Mather, 1227.
- New Richmond formation, Ordovician, Illinois : Cady, 267.
- New Richmond sandstone, Illinois : Cady, 266.
- New River group, Pennsylvanian, West Virginia : Hennen, 797; Reger, 1528.
- New Scotland limestone, Devonian, New York : Jones, 951.
- Niagara group, Silurian, Ontario : Williams, 2034.
- Niagara limestone, Silurian, Kentucky : Jillson, 918; Miller, 1297.
- Niagara limestone, Silurian, New York : Giles, 651.
- Nickel Plate formation, Triassic or Jurassic, British Columbia : Schofield, 1620.
- Nicolai greenstone, Triassic, Alaska : Bate-man and McLaughlin, 98.
- Nineveh limestone, Permian, Ohio : Stauffer and Schroyer, 1757.
- Nineveh sandstone, Permian, Ohio : Stauffer and Schroyer, 1757.
- Ninos terrane, Archeozoic, New Mexico : Keyes, 993.
- Niobrara formation, Cretaceous, Colorado : Henderson, 795.
- Niobrara formation, Cretaceous, Kansas : Darton, 462; Moore, 1346.
- Niobrara formation, Cretaceous, North Dakota : Leonard, 1082.
- Niobrara formation, Cretaceous, South Dakota : Darton, 461.
- Niobrara formation, Cretaceous, Wyoming : Hancock, 736.
- Niobrara shale, Cretaceous, Wyoming : Collier, 388; Hancock, 735.

- Nipissing diabase, pre-Cambrian, Ontario : Whitehead, 2010.
- Nitinat formation, Triassic (?), British Columbia : Dolmage, 506.
- Nora formation, Devonian, Iowa : Fenton, 580.
- Normanskill shales, Ordovician, New York : Jones, 951.
- Norrie member, pre-Cambrian, Wisconsin and Michigan : Hotchkiss, 865.
- Northfield conglomerate, Ordovician, Vermont : Richardson, 1545.
- North Fork shale, Pennsylvanian, West Virginia : Hennen, 797.
- Northport limestone, Paleozoic, Washington : Weaver, 1970.
- Northport terrace, Pleistocene, Alabama : Brantley, 191.
- Norton formation, Pennsylvanian, Virginia : Harnsberger, 750.
- Nounan formation, Cambrian, Idaho : Mansfield, 1211.
- Nowata shale, Pennsylvanian, Oklahoma : Snider, 1736.
- Nowata shale member, Pennsylvanian, Kansas : Moore, 1346.
- Nugget sandstone, Jurassic, Idaho : Mansfield, 1211, 1214, 1216.
- Nugget sandstone, Jurassic, Wyoming : Schultz, 1639.
- Nuttall (Lower) sandstone, Pennsylvanian, West Virginia : Hennen, 797; Reger, 1528.
- Nuttall (Upper) sandstone, Pennsylvanian, West Virginia : Hennen, 797; Reger, 1528.
- Oatka beds, Silurian, New York : Williams, 2034.
- Oak Hill clay, Pennsylvanian, Ohio : Stout, 1794.
- Oakville formation, Tertiary, Texas : Dumble, 524.
- Ocala formation, Eocene, Florida : Sellards, 1647.
- Ocala formation, Tertiary, Florida : Sellards, 1648.
- Ocala limestone, Eocene, Florida : Cushman, 431.
- Ocala limestone, Tertiary, Georgia : McCallie, 1149.
- Orea group, Mesozoic or Tertiary, Alaska : Johnson, 930.
- Orchard Creek shale, Silurian, Illinois : Savage, 1602.
- Oread limestone, Pennsylvanian, Oklahoma : Robinson and Mills, 1560.
- Ogalalla formation, Cretaceous, Kansas : Moore, 1346.
- Ogalalla formation, Tertiary, Kansas : Darton, 462.
- Ogdensburg dolomite, Ordovician, New York : Chadwick, 810.
- Ohara, Mississippian, Kentucky : Miller, 1293.
- Ohara (Lower) limestone member, Mississippian, Illinois : Weller *et al.*, 1973.
- Ohio shale, Kentucky : Miller, 1293.
- Okaw limestone, Mississippian, Illinois : Weller, 1974.
- Okaw limestone, Mississippian, Indiana : Hole, 847.
- Okay limestone, Pennsylvanian, Oklahoma : Heald, 777.
- Okefenokee formation, Quaternary, Georgia : McCallie, 1159.
- Okesa sandstone, Carboniferous, Oklahoma : Hopkins and Powers, 854.
- Old Dominion limestone, Paleozoic (?), Washington : Weaver, 1970.
- Oldham limestone, Silurian, Kentucky : Miller, 1293.
- Olive Hill formation, Devonian, Tennessee : Dunbar, 525.
- Oneida glass sand, Pleistocene, New York : Colony, 392.
- Oneota dolomite, Ordovician, Minnesota : Grout and Soper, 715.
- Oneota formation, Ordovician, Illinois : Cady, 267.
- Oneota formation, Ordovician, Wisconsin : Twenhofel and Thwaites, 1870.
- Onondaga limestone, Devonian, Kentucky : Jillson, 918.
- Onondaga limestone, Devonian, New York : Hussakof and Bryant, 884; Jones, 951.
- Opeche formation, Permian (?), Wyoming : Hancock, 734.
- Opex dolomite, Cambrian, Utah : Lindgren and Loughlin, 1104.
- Ophir formation, Cambrian, Utah : Butler, 255; Lindgren and Loughlin, 1104; Wichman, 2024.
- Opohonga limestone, Ordovician, Utah : Lindgren and Loughlin, 1104.
- Oread limestone, Pennsylvanian, Kansas and Oklahoma : Snider, 1736.
- Oread limestone, Pennsylvanian, Oklahoma : Heald, 777; Heald and Bowen, 778.
- Oread limestone member, Pennsylvanian, Kansas : Moore, 1346.
- Oregon bed, Ordovician, Kentucky : Miller, 1293.
- Orient gneiss, pre-Cambrian (?), Washington : Weaver, 1970.
- Oriskanian group, Devonian, Tennessee : Dunbar, 525.
- Oriskany formation, Devonian, New York and Pennsylvania : Fettke, 588.
- Oriskany sandstone, Devonian, New York : Colony, 392.
- Osage formation, Mississippian, Illinois : Weller *et al.*, 1973.
- Osgood stage, Silurian, Kentucky : Miller, 1293.
- Oswayo formation, Devonian-Carboniferous, Pennsylvania : Decker, 483.
- Otis limestone, Devonian, Iowa : Norton, 1381.
- Owen substage, Devonian, Iowa : Fenton, 580.
- Owl Creek marl, Cretaceous, Mississippi : Lowe, 1138.

- Owl Creek member, Cretaceous, Tennessee: Wade, 1922.
- Pabst member, pre-Cambrian, Wisconsin and Michigan: Hotchkiss, 865.
- Packard rhyolite, Utah: Lindgren and Loughlin, 1105.
- Packsaddle schist, pre-Cambrian, Texas: Snider, 1736.
- Pahasapa limestone, Mississippian, Wyoming: Hancock, 735.
- Paint Creek formation, Mississippian, Illinois: Weller *et al.*, 1973.
- Paint Creek limestone, Mississippian, Illinois: Weller, 1974.
- Paint Creek limestone, Mississippian, Indiana: Hole, 847.
- Pakowki shales, Cretaceous, Alberta: Slipper, 1712.
- Pala conglomerate, Quaternary, California: Ellis, 542.
- Palestine, Mississippian, Kentucky: Miller, 1293.
- Palestine sandstone, Mississippian, Illinois: Weller, 1974; Weller *et al.*, 1973.
- Palisade andesite (Conejos formation), Tertiary, Colorado: Patton, 1454.
- Palm Beach limestone, Pleistocene, Florida: Sellards, 1647, 1648.
- Palmer volcanics, Tertiary, Washington: Weaver, 1970.
- Palms formation, pre-Cambrian, Wisconsin and Michigan: Hotchkiss, 865.
- Palomasan series, Pleistocene, New Mexico: Keyes, 993.
- Palo Pinto formation, Pennsylvania, Texas: Plummer, 1475.
- Palo Pinto limestone, Pennsylvanian, Texas: Snider, 1736.
- Paluxy sand, Cretaceous, Texas: Dumble, 524; Matteson, 1231; Snider, 1736.
- Paluxy sands, Cretaceous, Texas: Udden, 1880; Winton and Adkins, 2062.
- Pamlico formation, Quaternary, North Carolina and Virginia: Hay, 767.
- Panama formation, Miocene, Canal Zone: MacDonald, 1170.
- Park formation, Carboniferous, Wyoming: Collier, 387.
- Park City formation, Carboniferous, Wyoming: Collier, 389.
- Park City formation, Permian, Wyoming: Schultz, 1639.
- Pascagoula formation, Tertiary, Alabama: Brantley, 191.
- Pascagoula clay, Tertiary, Mississippi: Lowe, 1138.
- Paskapoo formation, Tertiary, Alberta: Allan, 20; Slipper, 1712.
- Paso Robles formation, Tertiary, California: Pack, 1415.
- Patapsco formation, Cretaceous, Maryland: Berry, 141.
- Patapsco formation, Cretaceous, Maryland and Delaware: Bascom and Miller, 86.
- Patuxent formation, Cretaceous, Maryland: Berry, 141.
- Patuxent formation, Cretaceous, Maryland and Delaware: Bascom and Miller, 86.
- Pawhuska limestone, Pennsylvanian, Oklahoma: Snider, 1736.
- Pawnee Creek beds, Tertiary, Colorado: Loomis, 1123.
- Pawnee limestone, Pennsylvanian, Kansas, and Oklahoma: Snider, 1736.
- Pawnee limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Pawpaw formation, Comanchean, Texas: Adkins, 6.
- Pawpaw formation, Cretaceous, Texas: Adkins and Winton, 7; Winton and Adkins, 2062.
- Peace River formation, Cretaceous, Alberta: McLearn, 1187, 1188.
- Pearl shale, Permian, Kansas: Snider, 1736.
- Pearl shale member, Permian, Kansas: Moore, 1346.
- Pecosian series, Pliocene, New Mexico: Keyes, 993.
- Pecurisan series, Archeozoic, New Mexico: Keyes, 993.
- Peerless sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1258.
- Pegram limestone, Devonian, Tennessee: Dunbar, 525.
- Pelican sandstone, Cretaceous, Alberta: McLearn, 1188.
- Pelican shale, Cretaceous, Alberta: McLearn, 1188.
- Penasco terrane, Archeozoic, New Mexico: Keyes, 993.
- Pence member, pre-Cambrian, Wisconsin and Michigan: Hotchkiss, 865.
- Pend Oreille group, Washington and British Columbia: Weaver, 1970.
- Pennington group, Mississippian, Virginia: Harnsberger, 749.
- Pennington shale, Carboniferous, Georgia: McCallie, 1159.
- Pennington shale, Mississippian, Tennessee: Butts, 258.
- Penters chert, Devonian, Arkansas: Miser, 1319, 1320.
- Peorian interglacial interval, Pleistocene: Baker, 56.
- Pepino formation, Tertiary, Porto Rico: Hubbard, 877; Maury, 1248.
- Perchan series, Devonian, New Mexico: Keyes, 993.
- Permian system, Kansas: Moore, 1346.
- Perry group, Devonian, New Brunswick: Bailey and Matthew, 52.
- Perryville substage, Ordovician, Kentucky: Miller, 1293.
- Peterson limestone, Cretaceous (?), Idaho: Mansfield, 1216.
- Phalen Lake volcanics, Tertiary, Washington: Weaver, 1970.
- Phelps sandstone, Mississippian, Missouri: Dake, 441.
- Phosphoria formation, Permian, Idaho: Mansfield, 1211, 1216.

- Phosphoria formation, Permian, Montana : Condit, 395.
- Pictured Cliffs terrane, Cretaceous, New Mexico : Keyes, 993.
- Pierce limestone, Ordovician, Tennessee : Galloway, 633.
- Pierpont sandstone, Pennsylvanian, West Virginia : Hennen, 797.
- Pierre formation, Cretaceous, Colorado : Henderson, 795.
- Pierre group, Cretaceous, Colorado : Henderson, 794.
- Pierre shale, Cretaceous, Kansas : Darton, 462 ; Moore, 1346 ; Snider, 1736.
- Pierre shale, Cretaceous, New Mexico : Garret, 640.
- Pierre shale, Cretaceous, North and South Dakota : Stanton, 1746.
- Pierre shale, Cretaceous, North Dakota : Leonard, 1082.
- Pierre shale, Cretaceous, South Dakota : Darton, 461.
- Pierre shale, Cretaceous, Wyoming : Hancock, 735, 737.
- Pike gravel member, Cretaceous, Arkansas : Miser 1319.
- Pinal schist, pre-Cambrian, Arizona : Ransome, 1507.
- Pine Canyon limestone, Mississippian, Utah : Lindgren and Loughlin, 1105.
- Pine log conglomerate, pre-Cambrian, Georgia : Hull, 880 ; Hull *et al.*, 878.
- Pineville sandstone, Pennsylvanian, West Virginia : Hennen, 797 ; Reger, 1528.
- Pina Vititos terrane, Cretaceous, New Mexico : Keyes, 993.
- Pinyon Peak limestone, Devonian, Utah : Lindgren and Loughlin, 1105.
- Pioneer shale, Cambrian, Arizona : Ransome, 1507.
- Pitkin limestone, Mississippian, Arkansas : Miser, 1319.
- Pitkin limestone, Mississippian, Oklahoma : Snider, 1736.
- Pittsburg (Upper) limestone, Pennsylvanian, Ohio : Stout, 1794.
- Pittsburgh (Upper) sandstone, Pennsylvanian, Ohio : Stout, 1794.
- Plattesville formation, Ordovician, Illinois : Cady, 267, 270.
- Platteville limestone, Ordovician, Minnesota : Grout and Soper, 715.
- Plattin limestone, Ordovician, Arkansas : Miser, 1319, 1320.
- Plattin limestone, Ordovician, Missouri : Foerste, 603.
- Plattsburg limestone, Pennsylvanian, Kansas : Boughton, 170 ; Snider, 1736.
- Plattsburg limestone member, Pennsylvanian, Kansas : Moore, 1346.
- Pleasanton shale, Pennsylvanian, Kansas ; Snider, 1736.
- Plum Creek shale, Silurian, Kentucky : Miller, 1293.
- Plummer limestone, Pennsylvanian, Oklahoma : Heald and Mather, 780.
- Pluto shale, Mississippian, West Virginia : Reger, 1528.
- Plymouth member, pre-Cambrian, Wisconsin and Michigan : Hotchkiss, 865.
- Pocahontas group, Pennsylvanian, West Virginia : Hennen, 797.
- Pocahontas (Upper) sandstone, Pennsylvanian, West Virginia : Hennen, 797.
- Point Lookout sandstone, Cretaceous, Colorado : Collier, 386.
- Point Pleasant bed, Ordovician, Kentucky : Miller, 1293.
- Point Woodbury formation, Carboniferous or pre-Carboniferous, British Columbia : Schofield, 1617.
- Point Woodbury formation, Paleozoic, British Columbia : Schofield, 1619.
- Pokegama quartzite, pre-Cambrian, Minnesota : Grout and Broderick, 716.
- Polk Creek shale, Ordovician, Arkansas : Miser, 1319.
- Pomeroy sandstone, Pennsylvanian, Ohio : Stout, 1794.
- Ponce chalk beds, Tertiary, Porto Rico : Berkey, 124 ; Maury, 1248.
- Ponce limestone, Porto Rico : Hubbard, 877.
- Pondville conglomerate and arkose, Carboniferous, Rhode Island : Perkins, 1462.
- Pontiac series, pre-Cambrian, Quebec : Cooke, 401 ; Mailhot, 1202.
- Porcupine Hills beds, Tertiary, Alberta : Slipper, 1712.
- Porcupine Hills formation, Eocene, Alberta : Stewart, 1766.
- Portage group, Devonian, Pennsylvania : Decker, 483.
- Porters Creek clay, Eocene, Kentucky : Miller, 1293.
- Porters Creek clay, Tertiary, Mississippi : Lowe, 1140.
- Porters Creek formation, Eocene, Tennessee : Schroeder, 1623.
- Porter's Creek formation, Tertiary, Mississippi : Lowe, 1138.
- Portersville member, Pennsylvanian, Ohio : Stout, 1794.
- Port Hudson beds, Quaternary, Louisiana : Emerson, 549.
- Port Hudson formation, Pleistocene, Mississippi : Lowe, 1138.
- Port Hudson formation, Pleistocene, Texas : Snider, 1736.
- Port Nelson limestone, Silurian, Canada : Savage and Van Tuyl, 1602.
- Portneuf limestone, Triassic, Idaho : Mansfield, 1211, 1216.
- Possum sandstone, Carboniferous, Oklahoma : Goldman, 665.
- Possum sandstone, Pennsylvanian, Oklahoma : Goldman and Robinson, 667.
- Potomac group, Cretaceous, Maryland and Delaware : Bascom and Miller, 86.
- Potomac marble, Triassic, Maryland : Dorsey, 510.
- Potosi formation, Cambrian, Missouri : Tarr, 1817.

- Potsdam sandstone, Cambrian, Indiana : Logan, 1120.
- Potsdam sandstone, Cambrian, New York : Alling, 26 ; Miller, 1204.
- Potsdam sandstones, Cambrian, New York : Chadwick, 310.
- Pottshoro subgroup, Comanchean, Texas : Snider, 1736.
- Pottsville conglomerate, Carboniferous, Kentucky : Jillson, 918.
- Pottsville formation, Carboniferous, Illinois : Cady, 267, 268.
- Pottsville formation, Carboniferous, Pennsylvania : Fettke, 588.
- Pottsville formation, Pennsylvanian, Illinois : Coryell, 410 ; Hinds, 832 ; Nebel, 1367.
- Pottsville formation, Pennsylvanian, Maryland : Swartz, 1804.
- Pottsville formation, Pennsylvanian, Ohio : Stout, 1794.
- Pottsville group, Pennsylvanian, Illinois : Weller *et al.*, 1973.
- Pottsville series, Pennsylvanian, Kentucky : Miller, 1293.
- Pottsville series, Pennsylvanian, West Virginia : Reger, 1528.
- Poughuag quartzite, Cambrian, New York : Colony, 392.
- Poverty Run member, Pennsylvanian, Ohio : Stout, 1794.
- Poway conglomerate, Tertiary, California : Ellis, 542.
- Powell limestone, Ordovician, Arkansas : Miser, 1319.
- Prairie du Chien group, Ordovician, Illinois : Cady, 267.
- Pruss sandstone, Jurassic, Idaho : Mansfield, 1214, 1216.
- Prichard formation, Algonkian, Idaho : Jones, 944.
- Priest River terrane, British Columbia, Idaho, and Montana : Weaver, 1970.
- Princess formation, Carboniferous or pre-Carboniferous, British Columbia : Schofield, 1617.
- Princess formation, Paleozoic, British Columbia : Schofield, 1619.
- Princeton conglomerate, Mississippian, West Virginia : Reger, 1528.
- Princeton conglomerate sandstone, Mississippian, West Virginia : Hennen, 797.
- Princeton sandstone, Mississippian, Virginia : Harnsberger, 749.
- Proctor formation, Cambrian, Missouri : Tarr, 1817.
- Pueblo formation, Pennsylvanian, Texas : Plummer, 1475.
- Pueblo limestone, Pennsylvanian, Texas : Snider, 1736.
- Puente formation, Tertiary, California : Jordan, 954.
- Puerco terrane, Eocene, New Mexico : Keyes, 953.
- Puertecito formation, Triassic, New Mexico : Wells, 1978.
- Puget series, Eocene, Washington : Culver, 428.
- Pulaski formation, Eocene, Oregon : Smith and Packard, 1728.
- Puncheon Creek sandstone, Carboniferous, Kentucky : Browning and Russell, 206.
- Purgatoire formation, Cretaceous, New Mexico : Garrett, 640.
- Putnam Hill limestone, Pennsylvanian, Ohio : Stout, 1794.
- Pyburn limestone, Devonian, Tennessee : Dunbar, 525.
- Quadrant formation, Carboniferous, Montana : Conduit, 395.
- Quall limestone, Devonian, Tennessee : Dunbar, 525.
- Quartermaster formation, Permian, Texas : Gould, 678.
- Quartermaster terrane, Permian, New Mexico ; Keyes, 993.
- Quebradillas limestone, Tertiary, Porto Rico : Hubbard, 877 ; Maury, 1248.
- Queen Charlotte Islands formation, Cretaceous, British Columbia : Reinecke, 1538.
- Queen City beds, Tertiary, Texas : Dumble, 524.
- Queen City formation, Eocene, Texas : Snider, 1736.
- Queenston shale, Ordovician, New York : Decker, 483.
- Quinneseec schists, pre-Cambrian, Michigan : Allen, 25.
- Quinnimont sandstone, Pennsylvanian, West Virginia : Hennen, 797 ; Reger, 1528.
- Quinnimont sandstone, Pennsylvanian, West Virginia : Hennen, 797 ; Reger, 1528.
- Racine formation, Silurian, Michigan : Ehlers, 541.
- Raccoon shale, Mississippian, Kentucky : Miller, 1393.
- Raleigh (Lower) sandstone, Pennsylvanian, West Virginia : Hennen, 797.
- Raleigh (Upper) sandstone, Pennsylvanian, West Virginia : Hennen, 797.
- Raleigh (Upper) (Sharon) sandstone, Pennsylvanian, West Virginia : Reger, 1528.
- Ralston group, Pennsylvanian, Oklahoma : Bloesch, 155.
- Randville dolomite, pre-Cambrian, Michigan : Allen, 25.
- Ranger formation, Pennsylvanian, Texas : Plummer, 1475.
- Ranger limestone, Pennsylvanian, Texas : Snider, 1736.
- Raritan formation, Cretaceous, Maryland and Delaware : Bascom and Miller, 86.
- Raton formation, Tertiary, New Mexico : Garrett, 640.
- Ratonan series, Cenozoic (Tertiary), New Mexico : Keyes, 993.
- Rattlesnake beds, Cretaceous, Texas : Udden, 1880.
- Rattlesnake beds, Pliocene, Oregon : Smith and Packard, 1728.

- Reagan sandstone, Cambrian, Oklahoma: Decker, 483.
- Redbank sand, Cretaceous, New Jersey: Mansfield, 1210.
- Red Bluff clay, Tertiary, Alabama: Brantley, 191.
- Red Bluff formation, Tertiary, Mississippi: Lowe, 1138.
- Red Eagle limestone, Pennsylvanian, Oklahoma; Bowen *et al.*, 172; Snider, 1736.
- Red Mountain formation, British Columbia: Schofield, 1620.
- Red Mountain rhyolite, Tertiary, Colorado: Howell, 874.
- Red Rock Canyon beds, Tertiary, California: Merriam, 1264.
- Redstone limestone, Pennsylvanian, Ohio: Stout, 1794.
- Redtop formation, British Columbia: Schofield, 1620.
- Red Top limestone, Paleozoic (?), Washington: Weaver, 1970.
- Redwall limestone, Mississippian, Arizona: Shlmer, 1693.
- Reeder, sandstone, Cretaceous, Kansas: Twenhofel, 1871.
- Reelsville limestone, Mississippian, Indiana: Malott, 1205; Malott and Thompson, 1206.
- Renault formation, Mississippian, Illinois: Weller *et al.*, 1973.
- Renault limestone, Mississippian, Illinois: Weller, 1974.
- Renault limestone, Mississippian, Indiana: Hole, 847.
- Republican Creek limestone, Paleozoic, Washington: Weaver, 1970.
- Revard sandstone, Pennsylvanian, Oklahoma: Robinson and Mills, 1559, 1560.
- Revelt formation, Algonkian, Idaho: Jones, 944.
- Rex chert member, Permian, Idaho: Mansfield, 1211.
- Reynales (Wolcott) dolomite member, Silurian, Ontario: Williams, 2034.
- Reynosa limestone, Texas: Barton, 85.
- Rhinestreet shale, Devonian, New York: Hussakof and Bryant, 884.
- Rhode Island formation, Carboniferous, Rhode Island: Perkins, 1462.
- Ribstone Creek formation, Cretaceous, Alberta: Slipper, 1712.
- Ricardo beds, Tertiary, California: Merriam, 1264.
- Ricardo group, Tertiary, California: Merriam, 1264.
- Riceville shale, Devonian-Carboniferous, Pennsylvania: Decker, 483.
- Richmond stage, Ordovician, Kentucky: Miller, 1293.
- Ridenhower shale, Mississippian, Kentucky: Miller, 1293.
- Ridley limestone, Ordovician, Tennessee: Galloway, 633.
- Rio de la Plata series, Comanchean, Porto Rico: Hodge, 837.
- Rio Descalabrados series, Eocene, Porto Rico: Hodge, 837.
- Rio Jueyes series, Eocene, Porto Rico: Hodge, 837.
- Ripley formation, Cretaceous, Alabama: Brantley, 191.
- Ripley formation, Cretaceous, Georgia: McCally, 1159.
- Ripley formation, Cretaceous, Georgia and Alabama: Berry, 129.
- Ripley formation, Cretaceous, Kentucky: Miller, 1293.
- Ripley formation, Cretaceous, Mississippi: Lowe, 1138, 1140.
- Ripley formation, Cretaceous, Tennessee: Schroeder, 1623; Wade, 1922.
- Ripton conglomerate, Algonkian, Vermont: Foye, 620.
- Riverside sandstone, Mississippian, Indiana: Logan, 1120.
- Roan gneiss, Archean, Georgia: McCally, 1159.
- Roaring Creek sandstone, Pennsylvanian, West Virginia: Hennen, 797.
- Rochester quartzite, Vermont: Foye, 620.
- Rochester shale formation, Silurian, Ontario: Williams, 2034.
- Rociada terrane, Archeozoic, New Mexico: Keyes, 993.
- Rockcastle sandstone, Pennsylvanian, Tennessee: Butts, 258.
- Rockford limestone, Mississippian, Indiana: Logan, 1120.
- Rockhouse shale, Devonian, Tennessee: Dunbar, 525.
- Rockmart slate, Ordovician, Georgia: McCally, 1159.
- Rockwood formation, Silurian, Georgia: McCally, 1159.
- Rodman formation, Ordovician, Pennsylvania: Field, 590.
- Romance arkose, Vermont: Foye, 620.
- Rome formation, Cambrian, Georgia: McCally, 1159.
- Rondout limestone, Silurian, New York: Jones, 951.
- Rosamond series, Tertiary, California: Merriam, 1264.
- Rosebud beds, Miocene, South Dakota: O'Harra, 1389.
- Rosewood, Mississippian, Kentucky: Miller, 1293.
- Rosiclare, Mississippian, Kentucky: Miller, 1293.
- Rosiclare sandstone member, Mississippian, Illinois: Weller *et al.*, 1973.
- Ross limestone member, Devonian, Tennessee: Dunbar, 525.
- Ross Fork limestone, Triassic, Idaho: Mansfield, 1211, 1216.
- Rossland volcanic group, Triassic and Jurassic, Washington: Weaver, 1970.
- Roubidoux formation, Cambrian, Missouri: Dake, 441.
- Roubidoux formation, Ordovician, Missouri: Tarr, 1817.

- Round Knob shale, Pennsylvanian, Ohio : Stout, 1794.
- Rove slate, pre-Cambrian, Minnesota : Broderick, 198.
- Roxbury conglomerate series, Permo-Carboniferous, Massachusetts : Sayles, 1606.
- Royal shale, Pennsylvanian, West Virginia : Hennen, 797.
- Kuma formation, Mississippian, Illinois : Weller, 1974.
- Ruth argillite, Carboniferous, British Columbia : Schofield, 1619.
- Saanich granodiorite, Jurassic (?), British Columbia : Dolmage, 506.
- Sabine formation, Tertiary, Texas : Dumble, 524.
- Sacadaga quartzite, pre-Cambrian, New York : Alling, 28.
- Saddlehorse gypsum, Permian, Texas : Gould, 678.
- Sadlerochit sandstone, Pennsylvanian, Alaska : Leffingwell, 1074.
- St. Charles formation, Cambrian, Idaho : Mansfield, 1211.
- St. Clair limestone, Silurian, Arkansas : Miser, 1319, 1320.
- St. Clair marble, Silurian, Oklahoma : Snider, 1736.
- St. Edmund dolomite lentil, Silurian, Ontario : Williams, 2034.
- St. John formation, Cretaceous, Alberta : McLearn, 1187, 1188.
- St. John formation, Cretaceous, British Columbia : Stewart, 1747.
- St. John group, Cambrian, New Brunswick : Bailey and Matthew, 52.
- St. Lawrence formation, Cambrian, Minnesota : Grout and Soper, 715.
- St. Lawrence formation, Cambrian, Wisconsin : Twenhofel and Thwaites, 1870.
- St. Lorenz limestone, Devonian, Missouri : Dake, 441.
- St. Louis formation, Mississippian, Mississippi Valley : Keyes, 999.
- St. Louis limestone, Carboniferous, Kentucky : Jillson, 918.
- St. Louis limestone, Mississippian, Illinois : Coryell, 410 ; Hinds, 832.
- St. Louis limestone, Mississippian, Illinois : Nebel, 1367 ; Weller *et al.*, 1973.
- St. Louis limestone, Mississippian, Kentucky : Butts, 259 ; Miller, 1297 ; Shaw and Mather, 1680.
- St. Louis limestone, Mississippian, Tennessee : Butts, 258 ; Mather, 1227.
- St. Louis stage, Mississippian, Kentucky : Miller, 1293.
- St. Mary River beds, Cretaceous, Alberta : Slipper, 1712.
- St. Mary River formation, Eocene (?), Alberta : Rose, 1576.
- St. Mary River formation, Cretaceous, Alberta : Stewart, 1766.
- St. Mary River formation, Jurassic, Alberta : Rose, 1575.
- St. Peter formation, Ordovician, Wisconsin : Twenhofel and Thwaites, 1870.
- St. Peter sandstone, Ordovician, Arkansas : Miser, 1319, 1320.
- St. Peter sandstone, Ordovician, Illinois : Cady, 267, 270.
- St. Peter sandstone, Ordovician, Minnesota : Grout and Soper, 715.
- St. Peter sandstone, Ordovician, Missouri : Branson, 190 ; Dake, 441.
- St. Peter's sandstone, Ordovician, Indiana : Logan, 1120.
- St. Regis formation, Algonkian, Idaho : Jones, 944.
- Ste. Genevieve limestone, Mississippian, Illinois : Weller *et al.*, 1973.
- Ste. Genevieve limestone, Carboniferous, Kentucky : Jillson, 868.
- Ste. Genevieve limestone, Mississippian, Kentucky : Butts, 259 ; Shaw and Mather, 1680.
- Ste. Genevieve marls, Mississippian, Iowa : Lees and Thomas, 1073.
- Ste. Genevieve stage, Mississippian, Kentucky : Miller, 1293.
- Salem limestone, Mississippian, Indiana : Logan, 1120.
- Salem limestone, Mississippian, Illinois : Coryell, 410 ; Nebel, 1367.
- Salem limestone (Meramecian), Mississippian, Missouri : Branson, 190.
- Salina formation, Silurian, Ontario : Williams, 2034.
- Salinas shale, Miocene, California : Kew, 980.
- Saloma formation, Ordovician, Pennsylvania : Field, 590.
- Salt Lake formation, Pliocene, Idaho : Mansfield, 1216.
- Salt Lake formation, Pliocene (?), Idaho : Mansfield, 1211.
- Salt Lake formation, Tertiary, Idaho : Mansfield, 1213.
- Salt Mountain limestone, Tertiary, Alabama : Brantley, 191.
- Salt Plain shale, Permian, Kansas : Snider, 1736.
- Salt Plain shale member, Permian, Kansas : Moore, 1346.
- Salt Wash sandstone member, Jurassic, Utah : Butler, 255.
- Salzburg sandstone, Pennsylvanian, Ohio : Stout, 1794.
- Saluda, Ordovician, Kentucky : Miller, 1293.
- Salvisa bed, Ordovician, Kentucky : Miller, 1293.
- Sample sandstone, Mississippian, Indiana : Malott, 1205.
- Sample sandstone, Mississippian, Indiana : Malott and Thompson, 1206.
- Sample sandstone member, Mississippian, Kentucky : Miller, 1293.
- Sampson Rock sandstone, Pennsylvanian, Maryland : Swartz, 1804.
- San Andreas limestone, Permian, New Mexico : Baker, 55 ; Semmes, 1658.

- San Angelo beds, Permian, Texas: Beede, 108.
- San Angelo formation, Permian, Texas: Beede, 109.
- San Carlos beds, Cretaceous, Texas: Udden, 1880.
- San Diego formation, Tertiary, California: Ellis, 542.
- Sandia formation, Pennsylvanian, New Mexico: Wells, 1978.
- Sandia terrane, Pennsylvanian, New Mexico: Keyes, 993.
- Sandoval terrane, Proterozoic, New Mexico: Keyes, 993.
- Sandy Huff shale, Pennsylvanian, West Virginia: Reger, 1528.
- Sangamon interglacial interval, Pleistocene: Baker, 56.
- San Juan formation, Pleistocene, Porto Rico: Maury, 1248.
- San Juan formation, Pleistocene (?), Porto Rico: Semmes, 1655.
- San Juan formation, Tertiary, Porto Rico: Berkey, 124.
- San Juan formation, Quaternary, Porto Rico: Hubbard, 877.
- San Onofre breccia, Tertiary, California: Ellis, 542.
- San Pedro formation, Quaternary, California: Ellis, 542.
- San Sebastian shale, Tertiary, Porto Rico: Hubbard, 877.
- San Sebastian shales, Tertiary, Porto Rico: Berkey, 124; Maury, 1248.
- Santa Fe terrane, Miocene, New Mexico: Keyes, 993.
- Santa Isabel series, Recent, Porto Rico: Hodge, 837.
- Santa Margarita formation, Miocene, California: Pack, 1415.
- Santa Rita series, Silurian, New Mexico: Keyes, 993.
- Sapello terrane, Archeozoic, New Mexico: Keyes, 993.
- Saranac series, pre-Cambrian, New York: Allug, 28.
- Sarbach formation, Ordovician, Alberta: Walcott, 1928.
- Sardis terrace, Tertiary, Mississippi: Lowe, 1138.
- Satilla formation, Quaternary, Georgia: McCallie, 1159.
- Satsop formation, Pleistocene, Oregon: Smith and Packard, 1728.
- Savanna formation, Pennsylvanian, Arkansas: Miser, 1319.
- Savanna limestone, Pennsylvanian, Oklahoma: Snider, 1736.
- Sawridge formation, Cretaceous, Alberta: Allan, 20.
- Scajaquada shales, Silurian, New York: Williams, 2034.
- Scanlan conglomerate, Cambrian, Arizona: Ransome, 1507.
- Schooner Head series, Mount Desert Island, Maine: Bascom, 87.
- Schultz granite, Tertiary (?), Arizona: Ransome, 1507.
- Sciotoville clay, Pennsylvanian, Ohio: Stout, 1794.
- Scranton shale, Pennsylvanian, Kansas: Snider, 1736.
- Scranton shale member, Pennsylvanian, Kansas: Moore, 1346.
- Selkirkian period, Proterozoic, New Mexico: Keyes, 993.
- Selma chalk, Cretaceous, Alabama: Brantley, 191.
- Selma chalk, Cretaceous, Gulf region: Berry, 129.
- Selma chalk, Cretaceous, Mississippi: Lowe, 1138, 1140.
- Selma clay, Cretaceous, Tennessee: Schroeder, 1623.
- Selma formation, Cretaceous, Tennessee: Wade, 1822.
- Seminole conglomerate, Pennsylvanian, Oklahoma: Snider, 1736.
- Sepora formation, Pennsylvanian, Oklahoma: Snider, 1736.
- Sensori agglomerate and limestone, Panama and Costa Rica: MacDonald *et al.*, 1171.
- Serna terrane, Archeozoic, New Mexico: Keyes, 993.
- Sespe formation, Oligocene (?), California: Kew, 979, 980.
- Seth limestone, Pennsylvanian, West Virginia: Hennen, 797.
- Severn River limestone, Silurian, Canada: Savage and Van Tuyl, 1603.
- Severy shale, Pennsylvanian, Kansas: Snider, 1736.
- Severy shale member, Pennsylvanian, Kansas: Moore, 1346.
- Sewickley sandstone, Pennsylvanian, Ohio: Stout, 1794.
- Sextant sandstone and shale, Devonian, Canada: Savage and Van Tuyl, 1603.
- Shady dolomite, Cambrian, Virginia: Stose *et al.*, 1786.
- Shady limestone, Cambrian, Georgia: Hull, 880; Hull *et al.*, 878; McCallie, 1159.
- Shakopee dolomite, Ordovician, Illinois: Cady, 267.
- Shakopee dolomite, Ordovician, Minnesota: Grout and Soper, 715.
- Shammattawa limestone, Ordovician, Canada: Savage and Van Tuyl, 1603.
- Shannon (?) sandstone, Cretaceous, Wyoming: Hancock, 735.
- Sharon conglomerate, Pennsylvanian, Ohio: Stout, 1794.
- Sharon or Olean conglomerate, Pennsylvanian, Ohio, Pennsylvania, and New York: Decker, 483.
- Shawangunk conglomerate, Silurian, New York: Colony, 392.
- Shawnee formation, Pennsylvanian, Kansas: Moore, 1346; Snider, 1536.
- Sheep Creek beds, Miocene, South Dakota: O'Harra, 1389.

- Sheep Creek conglomerate, Carboniferous (?), Washington: Weaver, 1970.
- Sheffield formation, Devonian, Iowa: Fenton, 580.
- Sheppard granite, Tertiary, Washington: Weaver, 1970.
- Sherburne sandstone, Devonian, New York: Grabau, 685.
- Shettlerville formation, Mississippian, Illinois: Weller, 1974; Weller *et al.*, 1973.
- Shimer gypsum member, Permian, Kansas: Moore, 1346.
- Shimer gypsum, Permian, Kansas: Snider, 1736.
- Shinarump conglomerate, Triassic, Arizona: Shimer, 1693.
- Shinarump conglomerate, Triassic, Utah: Butler, 255; Clark, 344.
- Shinarump sandstone, Permian, New Mexico: Baker, 55.
- Shinarump terrane, Triassic, New Mexico: Keyes, 993.
- Shublik formation, Triassic, Alaska: Leflingwell, 1074.
- Siberia limestone, Mississippian, Indiana: Malott and Thompson, 1206.
- Sierra terrane, Mississippian, New Mexico: Keyes, 993.
- Sierra Blanca series, Cretaceous, New Mexico: Semmes, 1658.
- Sierra de Cayey series, Comanchean or Cretaceous, Porto Rico: Hodge, 837.
- Signal Hill series, pre-Cambrian, Newfoundland: Buddington, 226.
- Sillery formation, Cambrian, Quebec: Knox, 1030.
- Silver terrane, Devonian, New Mexico: Keyes, 993.
- Silver Creek member, Devonian, Kentucky: Miller, 1293.
- Silver Hoard formation, Carboniferous, British Columbia: Schofield, 1617, 1618.
- Silvies River beds, Jurassic, Oregon: Smith and Packard, 1728.
- Simpson formation, Ordovician, Oklahoma: Decker, 483.
- Skelley limestone, Pennsylvanian, Ohio: Stout, 1794.
- Skelt shale, Pennsylvanian, West Virginia: Reger, 1528.
- Skyline formation, Carboniferous, British Columbia: Schofield, 1617, 1619.
- Slocan series, Carboniferous, British Columbia: Bancroft, 66; Schofield, 1619.
- Smithwick shale, Carboniferous, Texas: Udden, 1887.
- Smithwick shale, Mississippian, Texas: Matteson, 1231.
- Smithwick shale, Pennsylvanian, Texas: Girty, 650; Girty and Moore, 660; Moore, 1344; Plummer, 1475; Snider, 1736.
- Smoky Hill chalk member, Cretaceous, Kansas: Moore, 1346.
- Smoky River formation, Cretaceous, Alberta: McLearn, 1187, 1188.
- Smoky River formation, Cretaceous, British Columbia: Stewart, 1767.
- Smoky River series, Cretaceous, British Columbia: Stewart, 1767.
- Snider Creek shale, Devonian, Missouri: Branson, 190.
- Socorran series, Mississippian, New Mexico: Keyes, 993.
- Soledad deposits, Tertiary, California: Jordan, 954.
- Solitario terrane, Archeozoic, New Mexico: Keyes, 993.
- Sooke formation, Miocene, British Columbia: Cooke, 402.
- Sooke gabbro, Oligocene, British Columbia: Cooke, 402.
- Sooke gabbro, Tertiary, British Columbia: Dolmage, 507.
- Spavinaw granite, Oklahoma: Aurin, 50.
- Spearfish formation, Triassic (?), Wyoming: Hancock, 735.
- Spence shale member, Cambrian, Idaho: Mansfield, 1211.
- Spergen, Mississippian, Kentucky: Miller, 1293.
- Spergen formation, Mississippian, Illinois: Hinds, 832.
- Spring Creek clays, Cretaceous, Kansas: Twenhofel, 1871.
- Springville shale, Devonian, Illinois: Savage, 1604.
- Squantum tillite member, Permo-Carboniferous, Massachusetts: Sayles, 1606.
- Stanley shale, Mississippian, Arkansas: Miser, 1319.
- Stanton limestone, Pennsylvanian, Kansas: Boughton, 170; Snider, 1736.
- Stanton limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Star limestone, Carboniferous, British Columbia: Schofield, 1619.
- Steele shale, Cretaceous, Wyoming: Collier, 388.
- Stensgar dolomite, Paleozoic, Washington: Weaver, 1970.
- Stevens series, Paleozoic (?), Washington: Weaver, 1970.
- Stockton (Cannelton) limestone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Stollmeyer Cruse shale, Tertiary, Trinidad: Macready, 1195.
- Stollmeyer oil zone, Tertiary, Trinidad: Macready, 1195.
- Stonebreaker limestone, Pennsylvanian, Oklahoma: Bowen *et al.*, 172; Heald, 779; Snider, 1736.
- Stonehenge member, Ordovician, Maryland: Bassler, 90.
- Stones River group, Ordovician, Pennsylvania: Field, 590.
- Stones River group, Ordovician, Tennessee: Galloway, 633.
- Stones River limestone, Ordovician, Maryland: Bassler, 90.

- Strawn division, Pennsylvanian, Texas: Plummer, 1475.
- Strawn formation, Pennsylvanian, Texas: Matteson, 1231; Snider, 1736.
- Stuart shale, Pennsylvanian, Oklahoma: Snider, 1736.
- Stump sandstone, Jurassic, Idaho: Mansfield, 1214, 1216.
- Sturgeon formation, pre-Cambrian, Michigan: Allen, 25.
- Sucarnochee formation, Tertiary, Alabama: Brantley, 191.
- Sullivan formation, Cambrian, Alberta: Walcott, 1928.
- Summerfield limestone, Pennsylvanian, Ohio: Stout, 1794.
- Summit series, Idaho, Washington, and British Columbia: Weaver, 1970.
- Summitville andesite, Tertiary, Colorado: Patton, 1444.
- Sumner group, Carboniferous, Kansas: Darton, 462.
- Sunbury shale, Mississippian, Kentucky: Miller, 1293.
- Sundance formation, Jurassic, Colorado: Lee, 1067.
- Sundance formation, Jurassic, Wyoming: Collier, 389; Hancock, 735.
- Sundance marine beds, Jurassic, Colorado: Henderson, 795.
- Sunday Lake quartzite, pre-Cambrian, Wisconsin and Michigan: Hotchkiss, 865.
- Sunderland formation, Quaternary, Maryland: Hay, 767.
- Sunderland formation, Quaternary, Maryland and Delaware: Bascom and Miller, 86.
- Sunloch metagabbro, Tertiary, British Columbia: Dolmage, 507.
- Supai formation, Pennsylvanian and Permian, Arizona: Shimer, 1693.
- Superioran period, Proterozoic, New Mexico: Keyes, 993.
- Sutton formation, Triassic or Jurassic, British Columbia: Dolmage, 506.
- Swan Peak quartzite, Ordovician, Idaho: Mansfield, 1211.
- Swansea rhyolite, Utah: Lindgren and Loughlin, 1105.
- Swede Pond quartzite, pre-Cambrian, New York: Alling, 28.
- Sweetland Creek shale, Devonian, Illinois: Savage, 1604.
- Sycamore limestone, Mississippian, Oklahoma: Decker, 483.
- Sylamore sandstone, Mississippian, Missouri: Branson, 190.
- Sylamore sandstone member, Devonian, Arkansas: Miser, 1319.
- Sylvan shale, Silurian, Oklahoma: Decker, 483.
- Tabera formation, Oligocene, Dominican Republic: Cooke, 400.
- Talbot formation, Quaternary, Maryland: Hay, 767.
- Talbot formation, Quaternary, Maryland, Delaware, and New Jersey: Bascom and Miller, 86.
- Tallahatta buhrstone, Tertiary, Alabama: Brantley, 191.
- Tallahatta formation, Tertiary, Mississippi: Lowe, 1138.
- Tampa formation, Oligocene, Florida: Cushman, 431; Sellards, 1647, 1648.
- Taneytown facies of Newark system, Triassic, Maryland: Dorsey, 510.
- Taosan series, Archeozoic, New Mexico: Keyes, 993.
- Tarkio formation, Carboniferous, Iowa: Smith, 1714.
- Tar Springs, Mississippian, Kentucky: Miller, 1293.
- Tar Springs formation, Mississippian, Indiana: Malott and Thompson, 1206.
- Tar Springs sandstone, Mississippian, Illinois: Weller, 1974; Weller *et al.*, 1973.
- Tatina group, Ordovician (?), Alaska: Capps, 291.
- Taylor formation, Cretaceous, Texas: Dumble, 524; Sellards, 1650, 1653; Shuler, 1696; Snider, 1736.
- Taylor marl, Cretaceous, Texas: Udden, 1880.
- Teapot Mountain porphyry, Arizona: Ransome, 1507.
- Tecovas formation, Triassic, Texas: Gould, 678.
- Tecovas terrane, Triassic, New Mexico: Keyes, 993.
- Tecuja beds, Tertiary, California: Stock, 1770.
- Tecumseh shale, Pennsylvanian, Kansas: Snider, 1736.
- Tecumseh shale member, Pennsylvanian, Kansas: Moore, 1346.
- Tejon formation, Eocene, California: Kew, 979, 980.
- Tejon formation, Eocene, California: Pack, 1415.
- Tellera terrane, Permian, New Mexico: Keyes, 993.
- Temiskaming series, pre-Cambrian, Ontario: Whitehead, 2010.
- Tensleep sandstone, Carboniferous, Wyoming: Collier, 389.
- Tensleep sandstone, Pennsylvanian, Wyoming: Schultz, 1639.
- Terry limestone, Mississippian, West Virginia: Hennen, 797; Reger, 1528.
- Tessey formation, Permo-Carboniferous, Texas: Böse, 161.
- Teutonic limestone, Cambrian, Utah: Lindgren and Loughlin, 1105; Wichman, 2024.
- Thaynes group, Triassic, Idaho: Mansfield, 1211, 1214, 1216.
- Thebes sandstone, Ordovician, Illinois and Missouri: Savage, 1602.
- Thebes sandstone, Ordovician, Missouri: Dake, 441.

- Theresa mixed beds, Cambrian, New York; Chadwick, 310.
- Thermopolis shale, Cretaceous, Wyoming; Collier, 389.
- Thetford series, post-Ordovician, Quebec; Knox, 1030.
- Thornton clay, Pennsylvanian, Ohio; Stout, 1794.
- Thornton fire clay, Pennsylvanian, West Virginia; Reger, 1528.
- Thorold sandstone member, Silurian, Ontario; Williams, 2034.
- Threeforks formation, Devonian, Montana; Condit, 395.
- Threeforks (?) limestone, Devonian, Idaho; Mansfield, 1211.
- Thurman sandstone, Pennsylvanian, Oklahoma; Snider, 1736.
- Tigre limestone, Oligocene, Panama and Costa Rica; MacDonald *et al.*, 1171.
- Tijeras terrane, Proterozoic, New Mexico; Keyes, 993.
- Timiskamian, pre-Cambrian, Ontario; Miller and Knight, 1301, 1302.
- Timiskaming series, pre-Cambrian, Canada; Cooke, 407.
- Timiskaming series, pre-Cambrian, Ontario; Burrows and Hopkins, 246.
- Timpas limestone, Cretaceous, New Mexico; Garrett, 640.
- Timpas terrane, Cretaceous, New Mexico; Keyes, 993.
- Timothy sandstone, Triassic, Idaho; Mansfield, 1211, 1214, 1216.
- Tintic quartzite, Cambrian, Utah; Lindgren and Loughlin, 1105; Wichman, 2024.
- Tinton member, Cretaceous, New Jersey; Mansfield, 1210.
- Tionesta clay, Pennsylvanian, Ohio; Stout, 1794.
- Tionesta (Homewood) sandstone, Pennsylvanian, Ohio; Stout, 1794.
- Tippah sandstone (Crainesville of Harris), Tertiary, Mississippi; Lowe, 1138.
- Tipton shale member, Tertiary, Wyoming; Schultz, 1639.
- Todilto (?) formation, Jurassic, Utah; Clark, 344.
- Tokio sand member, Cretaceous, Arkansas; Miser, 1319.
- Toledo formation, Oligocene, Oregon; Harrison and Eaton, 761.
- Tombigbee sand, Cretaceous, Tennessee; Wade, 1922.
- Tomstown limestone, Cambrian, Maryland; Bassler, 90.
- Tonzona group, Devonian or Silurian, Alaska; Capps, 291.
- Topeka limestone, Pennsylvanian, Kansas; Snider, 1736.
- Topeka limestone member, Pennsylvanian, Kansas; Moore, 1346.
- Torbay series, pre-Cambrian, Newfoundland; Buddington, 226.
- Tornado limestone, Carboniferous, Arizona; Ransome, 1507.
- Tornillo clays, Cretaceous, Texas; Udden, 1880.
- Toro formation Miocene, Panama and Costa Rica; MacDonald *et al.*, 1171.
- Toro limestone, Eocene, Panama, Canal Zone; MacDonald, 1170, Vaughan, 1910.
- Toronto formation, Pleistocene, Ontario; Baker, 56.
- Torpedo sandstone, Carboniferous, Oklahoma; Hopkins and Powers, 854.
- Torpedo (?) sandstone, Pennsylvanian, Oklahoma; Goldman and Robinson, 667.
- Torrance terrane, Permian, New Mexico; Keyes, 993.
- Torrejon terrane, Eocene, New Mexico; Keyes, 993.
- Totatlanika schist, Devonian or Silurian, Alaska; Capps, 291.
- Towanda bed, Permian, Kansas; Moore, 1346.
- Tow Creek sandstone, Cretaceous, Colorado; Crawford *et al.*, 416.
- Traders members, pre-Cambrian, Michigan; Allen, 25.
- Tradewater formation, Pennsylvanian, Illinois; Weller *et al.*, 1973.
- Travester terrane, Jurassic, New Mexico; Keyes, 993.
- Travis Peak sand, Cretaceous, Texas; Dumble, 524.
- Travis Peak formation, Cretaceous, Texas; Sellards, 1653; Snider, 1736.
- Treasure Mountain latite, Tertiary, Colorado; Patton, 1454.
- Trenton group, Ordovician, Tennessee; Galloway, 633.
- Trenton limestone, Ordovician, Indiana; Logan, 1120.
- Trenton limestone, Ordovician, New York; Chadwick, 310; Clark, 345; Decker, 483.
- Trinidad formation, Cretaceous, Colorado; Henderson, 794.
- Trinidad sandstone, Cretaceous, New Mexico; Garrett, 640.
- Trinity, Cretaceous, Texas; Dumble, 524.
- Trinity conglomerate, Comanchean, Texas; Liddle and Prettyman, 1102.
- Trinity division, Comanchean, Texas; Liddle and Prettyman, 1102; Snider, 1736.
- Trinity division, Cretaceous, Texas; Winton and Adkins, 2062.
- Trinity formation, Cretaceous, Arkansas; Miser, 1319.
- Trinity sand, Cretaceous, Texas; Udden, 1880.
- Trinity sands, Cretaceous, Texas; Matteson, 1231.
- Trout Creek sandstone, Cretaceous, Colorado; Crawford *et al.*, 416.
- Trout Pond limestone, pre-Cambrian, New York; Alling, 28.
- Troy quartzite, Cambrian, Arizona; Ransome, 1507.
- Truchas terrane, Archeozoic, New Mexico; Keyes, 993.
- Trujillo formation, Triassic, Texas; Gould, 678.

- Trujillo terrane, Triassic, New Mexico :
Keyes, 993.
- Trujillo Alta limestone, Porto Rico :
Berkey, 124.
- Tully pyrite layer, Devonian, New York :
Hussakof and Bryant, 934.
- Turkey Run limestone, Pennsylvanian, Ok-
lahoma : Bowen *et al.*, 172; Heald, 779 ;
Heald and Mather, 780.
- Tusahoma formation, Tertiary, Alabama :
Brantley, 191.
- Tuscaloosa formation, Cretaceous, Ala-
bama : Brantley, 191.
- Tuscaloosa formation, Cretaceous, Alabama
and Tennessee : Berry, 129.
- Tuscaloosa formation, Cretaceous, Missis-
sippi : Lowe, 1138, 1140.
- Tuscaloosa formation, Cretaceous, Tennes-
see : Wade, 1922.
- Tuscumbia limestone, Mississippian, Missis-
sippi : Lowe, 1138.
- Tusquitee quartzite, Cambrian, Georgia :
McCallie, 1159.
- Twentymile sandstone, Cretaceous, Colo-
rado : Crawford *et al.*, 416.
- Twiggs clay member, Tertiary, Georgia :
McCallie, 1159.
- Twin Creek limestone, Jurassic, Idaho :
Mansfield, 1216.
- Twin Creek formation, Jurassic, Wyoming :
Schultz, 1639.
- Twin Creek limestone, Jurassic, Idaho :
Mansfield, 1211, 1214.
- Twin Lakes porphyry, Mesozoic, Colorado :
Howell, 874.
- Tyee formation, Eocene, Oregon : Harrison
and Eaton, 761.
- Tyee sandstone, Eocene, Oregon : Smith and
Packard, 1728.
- Tygee sandstone, Cretaceous (?), Idaho :
Mansfield, 1216.
- Tyler graywacke slate, pre-Cambrian, Wis-
consin and Michigan : Hotchkiss, 865.
- Tyler slate formation, pre-Cambrian, Wis-
consin : Allen, 25.
- Tyner formation, Ordovician, Oklahoma :
Snider, 1736.
- Tyrone substage, Ordovician, Kentucky :
Miller, 1293.
- Uffington shale, Pennsylvanian, West Vir-
ginia : Reger, 1528.
- Usterian group, Devonian, Tennessee : Dun-
bar, 525.
- Ultima Thule member, Cretaceous, Arkan-
sas : Miser, 1319.
- Umpqua formation, Eocene, Oregon : Har-
rison and Eaton, 761.
- Umpqua group, Eocene, Oregon : Smith and
Packard, 1728.
- Unibon shale, Cretaceous (?), Porto Rico :
Semmes, 1655.
- Unicoi formation, Cambrian, Virginia :
Stose *et al.*, 1786.
- Uniontown limestone, Pennsylvanian, Ohio :
Stout, 1794.
- University terrace, Pleistocene, Alabama :
Brantley, 191.
- Ute formation, Cambrian, Idaho : Mans-
field, 1211.
- Uvalde formation, Pliocene or Pleistocene,
Texas : Sellards, 1653.
- Valdez group, Mesozoic (?), Alaska : John-
son, 930.
- Vale formation, Permian, Texas : Beede,
109.
- Valencian series, Proterozoic, New Mexico :
Keyes, 993.
- Valentine formation, Ordovician, Pennsyl-
vania : Field, 590.
- Valley Spring gneiss, pre-Cambrian, Texas :
Snider, 1736.
- Valleytown formation, Cambrian, Georgia :
McCallie, 1159.
- Valverde clay, Miocene, Dominican Repub-
lic : Cooke, 400.
- Vancouver group, Jurassic or Triassic,
British Columbia : Dolmage, 506.
- Vandever shale, Pennsylvanian, Tennessee :
Butts, 258.
- Vanport limestone, Pennsylvanian, Ohio :
Stout, 1794.
- Vanport (ferriferous) limestone, Pennsyl-
vanian, West Virginia : Reger, 1528.
- Vaqueros formation, Tertiary, California :
Pack, 1415.
- Vaqueros sandstone, Miocene, California :
Kew, 979, 980.
- Vaurial formation, Anticosti, Quebec : Twen-
hofel, 1873.
- Veale sand, Mississippian, Texas : Matteson,
1231.
- Vermejo formation, Cretaceous, New Mex-
ico : Garrett, 640.
- Vermillion Cliff sandstone, Triassic, Utah :
Butler, 255.
- Vermillionville sandstone, Carboniferous,
Illinois : Cady, 267.
- Vicksburg formation, Oligocene, Florida :
Sellards, 1647.
- Vicksburg formation, Tertiary, Florida :
Sellards, 1648.
- Vicksburg formation, Tertiary, Mississippi :
Lowe, 1140.
- Vicksburg group, Tertiary, Alabama :
Brantley, 191.
- Vicksburg group, Tertiary, Mississippi :
Lowe, 1138.
- Victoria quartzite, Mississippian, Utah :
Lindgren and Loughlin, 1105.
- Vidrio formation, Permo-Carboniferous,
Texas : Böse, 161.
- Vienna limestone, Mississippian, Illinois :
Weller, 1974 ; Weller *et al.*, 1973.
- Vilas shale, Pennsylvanian, Kansas : Bough-
ton, 170 ; Snider, 1736.
- Vilas shale member, Pennsylvanian, Kan-
sas : Moore, 1346.
- Vinton, Mississippian, Ohio : Miller, 1293.
- Vinton phase of Otis limestone, Devonian,
Iowa : Norton, 1381.
- Viola limestone, Ordovician, Oklahoma :
Decker, 483.
- Virginia slate, pre-Cambrian, Minnesota :
Grout and Broderick, 716.

- Vulcan formation, pre-Cambrian, Michigan : Allen, 25.
- Wabauunsee formation, Pennsylvanian, Kansas : Moore, 1346 ; Snider, 1736.
- Wabi formation, Silurian, Ontario : Hume, 931.
- Waco, Silurian, Kentucky : Miller, 1293.
- Waits River limestone, Ordovician, Vermont : Richardson, 1544, 1545.
- Walden sandstone, Carboniferous, Georgia : McCallie, 1159.
- Waldrip formation, Pennsylvanian, Texas : Plummer, 1475.
- Waldrip limestone, Pennsylvanian, Texas : Snider, 1736.
- Waldron formation, Silurian, Tennessee : Mather, 1227.
- Waldron shale, Silurian, Kentucky : Miller, 1293.
- Wallace formation, Algonkian, Idaho : Jones, 944.
- Walnut clay, Comanchean, Texas : Liddle and Prettyman, 1102.
- Walnut clays, Cretaceous, Texas : Dumble, 524 ; Snider, 1736.
- Walnut formation, Cretaceous, Texas : Adkins and Winton, 7.
- Walnut limestone, Cretaceous, Texas : Christner and Wheeler, 339.
- Walnut shale, Pennsylvanian, Kansas : 1736.
- Walnut shell conglomerate, Cretaceous, Texas : Winton and Adkins, 2062.
- Waltersburg sandstone, Mississippian, Illinois : Weller, 1974, 1975 ; Weller *et al.*, 1973.
- Wamsutta series, Carboniferous, Rhode Island : Perkins, 1462.
- Wapanucka limestone, Pennsylvanian, Oklahoma : Snider, 1736.
- Wapiti formation, Cretaceous, Alberta : McLearn, 1187.
- Wapsipinicon limestone, Devonian, Illinois and Iowa : Savage, 1604.
- Wapsipinicon stage, Devonian, Iowa : Norton, 1381.
- War Eagle (Lower) sandstone, Pennsylvanian, West Virginia : Hennen, 797 ; Reger, 1528.
- Warrendale formation, Miocene, Oregon : Smith and Packard, 1728.
- Warsaw formation, Mississippian, Illinois : Coryell, 410 ; Hinds, 832 ; Nebel, 1367.
- Warsaw formation, Mississippian, Kentucky : Butts, 259.
- Warsaw formation, Mississippian, Tennessee : Butts, 258 ; Mather, 1227.
- Warsaw limestone, Mississippian, Illinois : Weller *et al.*, 1973.
- Warsaw limestone, Mississippian, Kentucky : Miller, 1297 ; Shaw and Mather, 1639.
- Warsaw stage, Mississippian, Kentucky : Miller, 1293.
- Wasatch formation, Tertiary, Idaho : Mansfield, 1213, 1216.
- Wasatch formation, Tertiary, Wyoming : Schultz, 1639.
- Washington formation, Permian, Ohio : Stauffer and Schroyer, 1757 ; Stout, 1794.
- Washington phase of Waits River limestone : Richardson, 1544, 1545.
- Washington (Lower) limestone, Permian, Ohio : Stauffer and Schroyer, 1757.
- Washington (Middle) limestone, Permian, Ohio : Stauffer and Schroyer, 1757.
- Washington (Upper) limestone, Permian, Ohio : Stauffer and Schroyer, 1757.
- Washita division, Comanchean, Texas : Snider, 1736.
- Washita division, Cretaceous, Texas : Winton and Adkins, 2062.
- Washita formation, Cretaceous, Texas : Adkins and Winton, 7.
- Washita group, Cretaceous, Arkansas : Miser, 1319.
- Washita group, Cretaceous, Texas : Dumble, 524.
- Washita limestone, Cretaceous, Texas : Dumble, 524.
- Washita terrane, Comanchean, New Mexico : Keyes, 993.
- Watauga shale, Cambrian, Virginia : Stose *et al.*, 1786.
- Watsi shale, Oligocene, Panama and Costa Rica : MacDonald *et al.*, 1171.
- Wautubbe marls, Tertiary, Mississippi : Lowe, 1138.
- Waverlian series, Mississippian, Kentucky : Miller, 1293.
- Waverly group, Carboniferous, Kentucky : Jillson, 918.
- Wayan formation, Cretaceous, Idaho : Mansfield, 1216.
- Waynesboro formation, Cambrian, Maryland : Bassler, 90.
- Waynesburg limestone, Pennsylvanian, Ohio : Stout, 1794.
- Waynesburg sandstone, Permian, Ohio : Schroyer, 1757 ; Stout, 1794.
- Waynesville, Ordovician, Kentucky : Miller, 1293.
- Wayside sand, Pennsylvanian, Kansas : Boughton, 170.
- Webster Spring sandstone, Mississippian, West Virginia : Reger, 1528.
- Weiser sand, Pennsylvanian, Kansas : Boughton, 170.
- Weisner quartzite, Cambrian, Georgia : Hull, 880 ; Hull *et al.*, 878 ; McCallie, 1159.
- Wekusko group, pre-Cambrian, Manitoba : Alcock, 10.
- Wekusko series, pre-Cambrian, Manitoba : Alcock, 10.
- Welch sandstone, Pennsylvanian, West Virginia : Hennen, 797 ; Reger, 1528.
- Welborn beds, Tertiary, Texas : Dumble, 524.
- Wellington formation, Permian, Kansas : Moore, 1346 ; Snider, 1736.

- Wells formation, Pennsylvanian, Idaho: Mansfield, 1211, 1216.
- Weno formation, Comanchean, Texas: Adkins, 6; Adkins and Winton, 7; Winton and Adkins, 2062.
- Westerville limestone, Pennsylvania, Iowa: Tilton, 1846.
- Westfield phase of Otis limestone, Devonian, Iowa: Norton, 1381.
- Weston shale, Pennsylvanian, Kansas: Boughton, 170; Snider, 1736.
- Weston shale member, Pennsylvanian, Kansas: Moore, 1346.
- West River formation, Devonian, New York: Hussakof and Bryant, 884.
- West Union formation, Silurian, Ohio: Foerste, 598, 599.
- Wetumka shale, Pennsylvanian, Oklahoma: Snider, 1736.
- Weverton sandstone, Cambrian, Maryland: Basser, 90.
- Wewoka shale, Pennsylvanian, Oklahoma: Snider, 1736.
- Whirlpool sandstone member, Silurian, Ontario: Williams, 2034.
- White Cliff sandstone, Jurassic, Utah: Butler, 255.
- Whiteface anorthosite, pre-Cambrian, New York: Miller, 1303, 1304.
- Whitehorse sandstone, Permian, Kansas: Snider, 1736.
- Whitehorse sandstone, Permian, Oklahoma: Clapp, 340.
- Whitehorse sandstone member, Permian, Kansas: Moore, 1346.
- White River formation, Tertiary, North Dakota: Leonard, 1082.
- White River formation, Tertiary, Wyoming: Collier, 388; Hancock, 735.
- Whiterock formation, Nova Scotia: Fari-bault, 572.
- Whitetail conglomerate, Tertiary, Arizona: Ransome, 1507.
- Wichita formation, Permian, Texas: Matteson, 1231.
- Wicomico formation, Quaternary, Maryland: Hay, 767.
- Wicomico formation, Quaternary, Maryland and Delaware: Bascom and Miller, 86.
- Wilberns formation, Cambrian, Texas: Snider, 1736.
- Wilcox formation, Eocene, Texas: De Golyer, 485; Sellards, 1653.
- Wilcox formation, Tertiary, Georgia: McCallye, 1159.
- Wilcox formation, Tertiary, Mississippi: Lowe, 1140.
- Wilcox formation, Tertiary, Texas: Dumble, 524; Udden, 1880.
- Wilcox group, Eocene, Texas: Snider, 1736.
- Wilcox group, Tertiary, Alabama: Brant-ley, 191.
- Wilcox group, Tertiary, Mississippi: Lowe, 1138.
- Wilwhite slate, Algonkian, Georgia: Hull, 930.
- Willard shale, Pennsylvanian, Kansas: Snider, 1736.
- Willard shale member, Pennsylvanian, Kansas: Moore, 1346.
- Williamson sandstone, Pennsylvanian, West Virginia: Hennen, 797.
- Williamson shale member, Silurian, Ontario: Williams, 2034.
- Williamsville bed, Silurian, New York: Williams, 2034.
- Willow Creek beds, Tertiary, Alberta: Slipper, 1712.
- Willow Creek formation, Eocene, Alberta: Stewart, 1766.
- Wilson formation, Pennsylvanian, Oklahoma: Snider, 1736.
- Wind River formation, Tertiary, Wyoming: Collier, 388, 389.
- Windrow formation, upper Mississippi Valley: Thwaites and Twenhofel, 1843.
- Windsor series, Mississippian, Nova Scotia: Hayes, 772.
- Winfield limestone, Permian, Kansas: Snider, 1736.
- Winfield limestone, Permian, Oklahoma: Bowen *et al.*, 172.
- Winfield limestone member, Permian, Kansas: Moore, 1346.
- Wingate sandstone, Jurassic, New Mexico: Lee, 1068.
- Wingate sandstone, Jurassic, Utah: Clark, 344.
- Wingate terrane, Triassic, New Mexico: Keyes, 993.
- Winifrede limestone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Winifrede (Lower) sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Winifrede (Upper) sandstone, Pennsylvanian, West Virginia: Hennen, 797; Reger, 1528.
- Winona sand, Tertiary, Mississippi: Lowe, 1138.
- Winslow formation, Pennsylvanian, Arkansas: Miser, 1319.
- Winslow formation, Pennsylvanian, Oklahoma: Bloesch, 155.
- Winterset limestone, Pennsylvanian, Iowa: Tilton, 1846.
- Winterset limestone, Pennsylvanian, Kansas: Snider, 1736.
- Winterset limestone member, Pennsylvanian, Kansas: Moore, 1346.
- Wisconsin drift, Pleistocene: Baker, 56.
- Wisconsin drift, Pleistocene, Minnesota: Sardeson, 1600.
- Wisconsin glacial stage, Quaternary, Ohio: Stout, 1794.
- Wissahickon mica gneiss, pre-Cambrian, Maryland and Pennsylvania: Bascom and Miller, 86.
- Wolfcamp formation, Permo-Carboniferous, Texas: Böse, 161.
- Womble shale, Ordovician, Arkansas: Miser, 1319.

- Wood shale, Triassic (?), Idaho: Mansfield, 1211, 1214, 1216.
- Woodbine formation, Cretaceous, Texas: Dumble, 524; Shuler, 1696; Snider, 1736; Udden, 1880; Winton and Adkins, 2062.
- Woodburn bed, Ordovician, Kentucky: Miller, 1293.
- Woodford chert, Devonian, Oklahoma: Decker, 483.
- Wood's Bluff formation, Tertiary, Mississippi: Lowe, 1138.
- Woodside shale, Triassic, Idaho: Mansfield, 1211, 1214, 1216.
- Woodward formation, Permian, Kansas: Moore, 1346; Snider, 1736.
- Word formation, Carboniferous, Texas: Beede, 111.
- Word formation, Permo-Carboniferous, Texas: Böse, 161.
- Wreck Bay formation, Pleistocene (?), British Columbia: Dolmage, 506.
- Wreford limestone, Permian, Kansas and Oklahoma: Snider, 1736.
- Wreford limestone, Permian, Oklahoma: Bowman *et al.*, 172.
- Wreford limestone member, Carboniferous, Kansas and Oklahoma: Twenhofel, 1867.
- Wreford limestone member, Permian, Kansas: Moore, 1346.
- Wynona sandstone, Pennsylvanian, Oklahoma: Heald and Bowen, 778.
- Yale member, pre-Cambrian, Wisconsin and Michigan: Hotchkiss, 915.
- Yankeetown chert, Mississippian, Illinois: Weller, 1974.
- Yaque group, Miocene, Dominican Republic: Cooke, 400.
- Yaquina formation, Oligocene, Oregon: Harrison and Eaton, 761.
- Yarmouth (?) sand and soil, Pleistocene, Illinois: Hinds, 832.
- Yarmouth stage, Pleistocene, Iowa: Tilton, 1846, 1847.
- Yarmouth interglacial interval, Pleistocene: Baker, 56.
- Yazoo clays, Tertiary, Mississippi: Lowe, 1138.
- Yegua clay, Tertiary, Texas: Udden, 1880.
- Yegua formation, Eocene, Texas: Snider, 1736.
- Yegua formation, Tertiary, Texas: Dumble, 524.
- Yellow Creek beds, Devonian, Mississippi: Lowe, 1138.
- Yeso formation, Pennsylvanian, New Mexico, Semmes, 1658.
- Yeso formation, Permian, New Mexico: Baker, 55.
- Yeso terrane, Permian, New Mexico: Keyes, 993.
- Ysidro terrane, Proterozoic, New Mexico: Keyes, 993.
- Zoar (Lower Mercer) limestone, Pennsylvanian, Ohio: Stout, 1794.
- Zunian series, Jurassic, New Mexico: Keyes, 993.