| RIES | WABAUNSEE GROUP | NEMAHA SUBGROUP RICHARDSON SUBGROUP | STOTLER FM. PILLSBURY SH. ZEANDALE FM. WILLARD SH. EMPORIA FM. | DRY SH. MBR. DOVER LS. MBR. MAPLE HILL LS. MBR. NYMAN COAL BED WAMEGO SH. MBR. TARKIO LS. MBR. ELMONT LS. MBR. HARVEYVILLE SH. MBR. | | INDIAN CAVE "GRANDHAVEN MBR." ?? DRY SH. MBR. DOVER LS. MBR. MAPLE HILL LS. MBR. NYMAN COAL BED WAMEGO SH. MBR. TARKIO LS. MBR. | SS. STOTLER FM. PILLSBURY SH. ZEANDALE FM. | RICHARDSON SUBGROUP | | | | |
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| м — — — — — — — — — — — — — — — — — — — | ABAUNSEE GROU | SUBGROUP | PILLSBURY SH. ZEANDALE FM. WILLARD SH. | DOVER LS. MBR. MAPLE HILL LS. MBR. NYMAN COAL BED WAMEGO SH. MBR. TARKIO LS. MBR. ELMONT LS. MBR. HARVEYVILLE SH. MBR. | | DRY SH. MBR. DOVER LS. MBR. MAPLE HILL LS. MBR. NYMAN COAL BED WAMEGO SH. MBR. | PILLSBURY SH. ZEANDALE FM. | RICHARDSON SUBGROUP | | | | |
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| м — — — — — — — — — — — — — — — — — — — | ABAUNSEE GROU | SUBGROUP | ZEANDALE FM. WILLARD SH. EMPORIA FM. | WAMEGO SH. MBR. TARKIO LS. MBR. ELMONT LS. MBR. HARVEYVILLE SH. MBR. | | WAMEGO SH. MBR. | ZEANDALE FM. | RICHARDSON | | | | |
| м — — — — — — — — — — — — — — — — — — — | ABAUNSEE GROU | SUBGROUP | WILLARD SH. EMPORIA FM. | WAMEGO SH. MBR. TARKIO LS. MBR. ELMONT LS. MBR. HARVEYVILLE SH. MBR. | | WAMEGO SH. MBR. | | | | | | |
| м — — — — — — — — — — — — — — — — — — — | ABAUNSEE GROU | | EMPORIA FM. | ELMONT LS. MBR. HARVEYVILLE SH. MBR. | | TARKIO LS. MBR. | | | | | | |
| м — — — — — — — — — — — — — — — — — — — | ABAUNSEE GROU | | EMPORIA FM. | HARVEYVILLE SH. MBR. | | | WILLARD SH. | | | | | |
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| м — — — — — — — — — — — — — — — — — — — | ABAUN | _ | AUBURN SH. | | | READING LS. MBR. | | | G R | | | |
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| м — — — — — — — — — — — — — — — — — — — | | | BERN FM. | WAKARUSA LS. MBR. SOLDIER CREEK SH. MBR. | | WAKARUSA LS. MBR. SOLDIER CREEK SH. MBR. | BERN FM. | | A U N | | | |
| м — — — — — — — — — — — — — — — — — — — | | | | BURLINGAME LS. MBR. SILVER LAKE SH. MBR. | <u> </u> | BURLINGAME LS. MBR. SILVER LAKE SH. MBR. | | | A B | | | |
| м — — — — — — — — — — — — — — — — — — — | | | | RULO LS. MBR. ELMO COAL BED | <u> </u> | RULO LS. MBR. ELMO COAL BED | | | > | | | |
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| м — — — — — — — — — — — — — — — — — — — | | | SCRANTON FM. | HAPPY HOLLOW MBR. | OW MBR. HAPPY HOLLOW LS. MB | HAPPY HOLLOW LS. MBR. | | | | | | |
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| | | SA | | | | | | SA | | ш | RIES | |
| | | | | UTOPIA LS. MBR. WINZELER SH. MBR. | | UTOPIA LS. MBR. WINZELER SH. MBR. | | _ | | A G | | ∑ ⊟ |
| т - | | | HOWARD FM. | CHURCH LS. MBR. AARDE SH. MBR. NODAWAY COAL BED BACHELOR CREEK LS. MBR. | | CHURCH LS. MBR. AARDE SH. MBR. NODAWAY COAL BED | HOWARD FM. | | | ⊢ | SEF | L S |
| N | | | SEVERY FM. | BAGILLON CINLEN ES. WIDIN. | <u> </u> | | SEVERY SH. | | | Ñ V | Z 4 - | UBSY |
| 0 U | | | | 2011 2000 1100 | | COAL CREEK LS. MBR. | | | | H H | X X X | S Z |
| - <u>-</u> | | | ТОРЕКА ҒМ. | COAL CREEK LS. MBR. HOLT SH. MBR. DUBOIS LS. MBR. TURNER CREEK SH. MBR. | | HOLT SH. MBR. DUBOIS LS. MBR. TURNER CREEK SH. MBR. | | | | G Z | \ } | Y |
| | | | | SHELDON LS. MBR. JONES POINT SH. MBR. | | SHELDON LS. MBR. JONES POINT SH. MBR. | | | | LIAN (~ | S Z Z | > > |
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| | | - | | HARTFORD LS. MBR. | | HARTFORD LS. MBR. | | _ | | \ - R | U P P | РЕ |
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| | | | | LARSH-BURROAK SH. MBR. ROCK BLUFF LS. MBR. | •••• | LARSH-BURROAK SH. MBR. ROCK BLUFF LS. MBR. | | | | | | |
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| | | | | OZAWKIE LS. MBR. | | OZAWKIE LS. MBR. | | R O U | | | | |
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| | S T | | LECOMPTON FM. | QUEEN HILL SH. MBR. BIG SPRINGS LS. MBR. | | QUEEN HILL SH. MBR. BIG SPRINGS LS. MBR. | LECOMPTON FM. | | | | | |
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| | | | | SPRING BRANCH LS. MBR. | | SPRING BRANCH LS. MBR. | | _ | | | | |
| | | | | STULL SH. MBR. | | STULL SH. MBR. | | | | | | |
| | | | KANWAKA FM. | CLAY CREEK LS. MBR. | | CLAY CREEK LS. MBR. | KANWAKA SH. | | | | | |
| | | | | JACKSON PARK SH. MBR. | | JACKSON PARK SH. MBR. | | | | | | |
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| | How | e (19 | PRMER CLASSIFI 61) ^a , revised by Th | CATION nompson (1995) ^b | PRESENT CLASSIFICATION Gentile and Thompson (2004) ^c | | | | | | | | |
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| VIRGILIAN SERIES | | | | "UPPER UNNAMED SH. MBR." | | | | | | TAGE | | | |
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| | 0 | | LAWRENCE FM. | | | IRELAND SS. FACIES | LAWRENCE SH. | | | | | | |
| | ى 2 | | | "LOWER UNNAMED SH. MBR." | | PIGEON HILL SH. MBR. | | | | | | | |
| | S A | | | | | ROBBINS SH. FACIES | | : | | | | | |
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| | | | | ROCK LAKE SH. MBR. | | ETTEL TOWN EG. WIBIN. | ROCK LAKE SH. STANTON FM. | | | | | | |
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| | <u>ග</u> | | | EUDORA SH. MBR. CAPTAIN CREEK LS. MBR. | <u> </u> | EUDORA SH. MBR. CAPTAIN CREEK LS. MBR. | | 1 | უ Z | | | | |
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| | | | | HICKORY CREEK SH. MBR. MERRIAM LS. MBR. | | HICKORY CREEK SH. MBR. MERRIAM LS. MBR. | | | | | | | |
| | | | BONNER SPRING | GS SH. | | BONNER SPRINGS SH. MBR. | | | | | | | |
| | | | | | | "UPPER LS. FACIES" FARLEY | LANE SH. | | | | | | |
| | | | WYANDOTTE FM. | FARLEY LS. MBR. | | "HIDDLE SH. FACIES" LS. "LOWER LS. FACIES" MBR. | | H SUBGROUP | | AN) STAGE | ERIES | TEM | |
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| | | | | FRISBIE LS. MBR. | | FRISBIE LS. MBR. | | | | > | ∢ | В | V. |
| | | | LANE SH. | | | LIBER | TY MEMORIAL SH. | | | 0 ∑ - | X X X | σ z | |
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| MISSOURIAN | N O N | | CHANUTE SH. | | | | CHANUTE SH. | | а О | 0 | ш | z | 4 |
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| | ≻ - | SUBGROUP | DRUM LS. | CORBIN CITY LS. ? CEMENT CITY MBR. | | CEMENT CITY LS. MBR. | DEWEY FM. | C – | Σ | ⊃ | | | |
| | O S I | LINN | | QUIVIRA SH. MBR. | •=•= | QUIVIRA SH. MBR. | | OUP | A S | | | | |
| | δ Ω Ζ | | | | | "BELTON SS." | NELLIE BLY FM. | o z | | | | | |
| | A A | | CHERRYVALE | WESTERVILLE LS. MBR. | | WESTERVILLE LS. MBR. | | I N | ¥ ∀ | | | | |
| | | | FM. | | | | CHERRYVALE FM. | | | | | | |
| | | | | WEA SH. MBR. | | ───────────────────────────────────── | | | | | | | |
| | | | | BLOCK LS. MBR. FONTANA SH. MBR. | | BLOCK LS. MBR. FONTANA SH. MBR. | | | | | | | |
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| | | | | WINTERSET LS. MBR. | | WINTERSET LS. MBR. | | | | | | | |
| | | | DENNIS FM. | THE TOTAL TO MIDIN. | | TO IVIDA | DENNIS FM. | | | | | | |
| | | OUP | | STARK SH. MBR. | | STARK SH. MBR. CANVILLE LS. MBR. | | <u>B</u> | | | | | |
| | | N SUBGROUP | GALESBURG SH. | | | | GALESBURG SH. | SUBGROUP | | | | | |
| | | BRONSON | | BETHANY FALLS LS. MBR. | | BETHANY FALLS LS. MBR. | | BRONSON S | | | | | |
| | | a | SWOPE FM. | HUSHPUCKNEY SH. MBR. | • • • • | HUSHPUCKNEY SH. MBR. | SWOPE FM. | BR | | | | | |
| | | | LADORE FM. | MIDDLE CREEK LS. MBR. | | MIDDLE CREEK LS. MBR. | ELM BRANCH SH. | | | | | | |
| | | | HERTHA FM. | SNIABAR LS. MBR. MOUND CITY SH MBR. | | SNIABAR LS. MBR. MOUND CITY SH. MBR. GUTHRIE MOUNTAIN SH. MBR. | HERTHA FM. | | | | | | |
| | | | | OVID COAL BED CRITZER LS. MBR. | | OVID COAL BED CRITZER LS. MBR. LOCUST CREEK COAL BEDS | | | | | | | |
| | | | | "UNNAMED MBR." | | BLUE MOUND SH. MBR. | | | | | | | |
| | | | "UPPER | | | | | 1 | <u>_</u> | | | | |
| | ROL | | UNNAMED FM." | "KNOBTOWN FACIES" | | KNOBTOWN LS. MBR. | | , | ж 0 | | | | |
| | ڻ ع | | | WARRENSBURG SS. MBR. | | WELDON RIVER SS. MBR. | | | უ Z | | | | |
| | 0 | | | | | "CHARITON CONGL." | SHALE HILL FM. | (| 0 - | | | | |
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| | MISSOURIAN SER. | | PLEASANTON GROUP | | "LOWER UNNAMED FM." | "UNNAMED MBR." HEPLER SS. MBR. | | GRAIN VALLEY COAL BED "UPPER UNNAMED SH." EAST BRANCH SS. MBR. | HEPLER FM. | PLEASANTON | GROUP | | | |
|--------|------------------|-------------|---------------------|---------------------|-------------------------------------|--|--|---|---------------------------------------|----------------------|--------------------------|-------------|--------------------|--|
| | | | | | HOLDENVILLE SH. | | | COOPER CREEK LS. MBR. "UPPER UNNAMED SH. MBR." | LOST BRANCH FM. | | | | | |
| | | | | Д. | LENAPAH FM. | SNI MILLS LS. MBR. PERRY FARM SH. MBR. NORFLEET LS. MBR. | | NUYAKA CREEK SH. MBR. SNI MILLS LS. MBR. DAWSON COAL BED "UPPER UNNAMED SH. MBR." IDENBRO LS. BED PERRY FARM SH. MBR. NORFLEET LS. MBR. | MEMORIAL SH. | HOLDENVILLE SUBGROUP | | | | |
| | | <u> </u> | | APPANOOSE SUBGROUP | NOWATA FM. | WALTER JOHNSON SS. MBR. LAREDO COAL BED | | WALTER JOHNSON SS. MBR. | NOWATA SH. | Ĭ | О В | | | |
| | | | 2 | APPANO | ALTAMONT FM. | WORLAND LS. MBR. LAKE NEOSHO SH. MBR. AMORET LS. MBR. BANDERA QUARRY MBR. | | WORLAND LS. MBR. LAKE NEOSHO SH. MBR. AMORET LS. MBR. BANDERA QUARRY SS. MBR. | ALTAMONT FM. | ROUP | N G R O | | | |
| | | \ \ 2 | - (| | BANDERA FM. PAWNEE FM. | MULBERRY COAL BED COAL CITY LS. MBR. MINE CREEK SH. MBR. | | FARLINGTON LS. BED MULBERRY COAL BED COAL CITY LS. MBR. MINE CREEK SH. MBR. | BANDERA SH. | PANOOSE SUBGROUP | MATO | | | |
| | | 2 | (| | LABETTE FM. | MYRICK STATION LS. MBR. ANNA SH. MBR. LEXINGTON COAL BED ENGLEVALE SS. MBR. | | MYRICK STATION LS. MBR. ANNA SH. MBR. LEXINGTON COAL BED ENGLEVALE SS. MBR. | PAWNEE FM. LABETTE SH. | APPA | MAR | | | |
| | | | | ROUP | HIGGINSVILLE LS | ALVIS COAL BED | | ALVIS COAL BED LOWER LABETTE SS. | HIGGINSVILLE LS. | <u>-</u> | _ | | | |
| | | | | FORT SCOTT SUBGROUP | LITTLE OSAGE FM. | FLINT HILL SS. MBR. HOUX LS. MBR. SUMMIT COAL BED | | FLINT HILL SS. FACIES BLACK WATER CREEK SH. MBR. HOUX LS. MBR. BINKLEY SH. MBR. SUMMIT COAL BED MORGAN SCHOOL SH. MBR. | LITTLE OSAGE FM. | T SCOTT SUBGROUP | | | | |
| | S | | | ш | BLACKJACK CREE | EK LS. | | "UPPER LS. MBR." "MIDDLE SH. MBR." "LOWER LS. MBR." | BLACKJACK CREEK LS. EXCELLO SH. | FORT | | | | |
| | N S E R | | | | MULKY FM. | MULKY COAL BED BREEZY HILL LS. MBR. | | MULKY COAL BED BREEZY HILL LS. MBR. | MULKY FM. | | | _ | | |
| | ESIAN | | | | LAGONDA FM. | | | SQUIRREL SS. FACIES | LAGONDA FM. | _ | | A G E | | |
| | _ O | | | | BEVIER FM. | WHEELER COAL BED | | WHEELER COAL BED WHEELER MBR. ARDMORE LS. MBR. | BEVIER FM. | | | L S (N | S | |
| | D E S M | A G E | | ROUP | VERDIGRIS FM. | CROWEBURG COAL BED | | OAKLEY SH. MBR. MECCA QUARRY SH. BED CROWEBURG COAL BED | VERDIGRIS FM. | | | OVIAN | S E R I | |
| T E M | | N S | | CABANISS SUBGROUP | CROWEBURG FM | . FLEMING COAL BED | | FLEMING COAL BED | CROWEBURG FM. | S SUBGROUP | 0 U P | 0 S C | Z 4 - Z | |
| S Y S | | N - | U P | CAB | ROBINSON | ROBINSON BRANCH COAL BED | | ROBINSON BRANCH COAL BED | FLEMING FM. ROBINSON | CABANISS | G R | R R | \ \ \ | |
| Z K | | C Y G | R 0 | | BRANCH FM. MINERAL FM. | MINERAL COAL BED | | MINERAL COAL BED | BRANCH FM. MINERAL FM. | | Ш | <u>а</u> | 1 × s | |
| LVANI | | | KEEG | | SCAMMON FM. | SCAMMON COAL BED CHELSEA SS. MBR. | | SCAMMON COAL BED CHELSEA SS. MBR. | SCAMMON FM. | _ | HEROK | N (~) | Z Z W | |
| ≻ s N | | | ERO | | TEBO FM. | TIAWAH LS. MBR. TEBO COAL BED | | TIAWAH LS. MBR. TEBO COAL BED | TEBO FM. | _ | S | E S I | D L E | |
| PEN | | | СН | | WEIR FM. | WEIR-PITTSBURG COAL BED | | UPPER WEIR-PITTSBURG COAL BI MIDDLE WEIR-PITTSBURG COAL E LOWER WEIR-PITTSBURG COAL B | BED WEID EM | | | 2 0 V | _ M | |
| | | Ш | | | SEVILLE FM. | BLUEJACKET COAL BED | | HACKBERRY BRANCH LS. MBR. BLUEJACKET COAL BED | WELBORN FM. | | | DES | | |
| | | Ø ∀ | | | BLUEJACKET FM. | DRYWOOD COAL BED | | "BLUEJACKET SS." DRYWOOD COAL BED | BLUEJACKET SS. | | | | | |
| | | ANST | | SUBGROUP | DRYWOOD FM. | "FLAGSTONE" ROWE COAL BED | 77-1-1 | LOWER DRYWOOD COAL BED ROWE COAL BED | DRYWOOD FM. | SSUBGROUP | | | | |
| | | T E R | | KREBS | ROWE FM. | | | WARNER (NEUTRAL) COAL BED | ROWE FM. | KREBS | | | | |
| | | N = N | | | WARNER FM. HARTSHORNE ? FM. | | | | WARNER SS. HARTSHORNE ? FM. | - | | | | |
| | | | | | - | | ? | | CHELTENHAM FM. | STAGE | 1 | Щ. | _ | |
| | | S | | | "LADDEN BRANCH" - LS. | | | Note: Rests on Ordovician to Mississippian strata | GRAYDON CONGL. | O NAIGHNIO | AND/OR AND/OR | TOKAN STAGI | | |
| | | SERIE | | | BURGNER FM. | 1 | ? | "UPPER RIVERTON COAL BED" | | Ц Ц | | ⋖ | | |
| | | NAYOL | | | McLOUTH FM. (SUBSURFACE ONLY) | | | "MIDDLE RIVERTON COAL BED" "LOWER RIVERTON COAL BED" LADDEN BRANCH LS. MBR. | RIVERTON SH. | | ATOKAN STAGE | | | |
| | | A | | | | ? | | | BURGNER FM. | | ATOK | | | |
| | | | | | CHELTENHAM FM. | | | | McLOUTH FM. (SUBSURFACE ONLY) | | OWAN AN) STAGE | 2 | NNSYLVANIAN SERIES | |
| | МС | ORR SEF | OW | AN | HALE FM. | ? | ? ::::;;;;::::::::::::::::::::::::::::: | | "PRAIRIE GROVE" | _ | MORROWAN ~BASHKIRIAN) ST | | LOWER PENNSYLV | |

FORMER CLASSIFICATION Howe (1961)^a, revised by Thompson (1995)^b

PRESENT CLASSIFICATION Gentile and Thompson (2004)^c



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REFERENCES

SNYDERVILLE SH. MBR.

TORONTO LS. MBR.

ABBREVIATIONS

FM. = FORMATION MBR. = MEMBER LS. = LIMESTONE SS. = SANDSTONE SH. = SHALE

CONGL. = CONGLOMERATE

REFERENCES
^a Howe, W. B., 1961, The stratigraphic succession in Missouri, Missouri Division of Geological Survey and Water Resources, vol. 40, 2nd Series, 185 p.
^b Thompson, T. L., 1995, The stratigraphic succession in Missouri (Revised-1995), Missouri Division of Geology and Land Survey, vol. 40, 2nd Series, Revised, 190 p.
^c Gentile, R. J. and Thompson, T. L., 2004, Paleozoic succession in Missouri, Part 5 - Pennsylvanian Subsystem of Carboniferous System, Missouri Geological Survey and Resource Assessment Division, Report of Investigation No. 70, 688 p. + App. A-D.

SNYDERVILLE SH. MBR.

TORONTO LS. MBR.

MANTEY SH. MBR.

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"MIDDLE UNNAMED FM."

"UNNAMED SH. MBR."

Rolla, Missouri