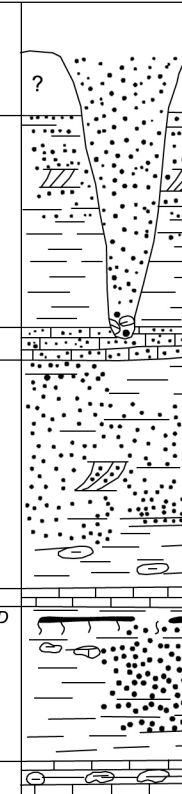
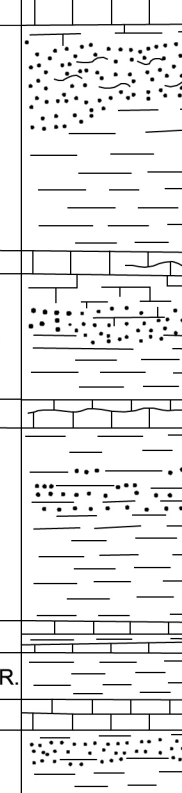
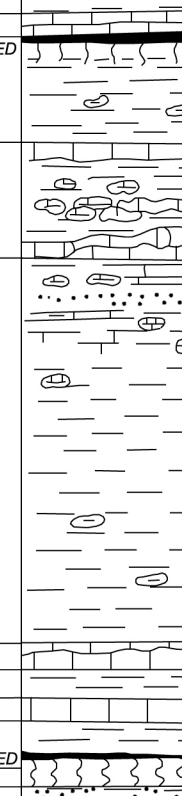
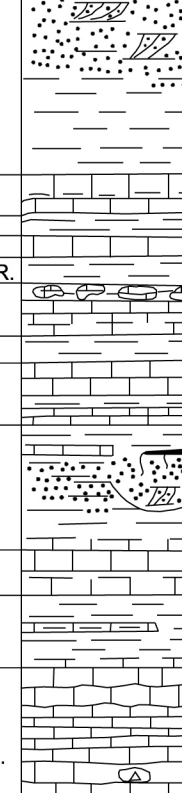
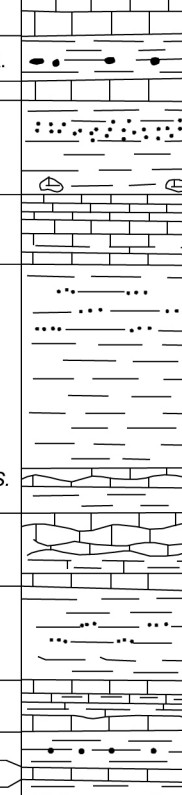
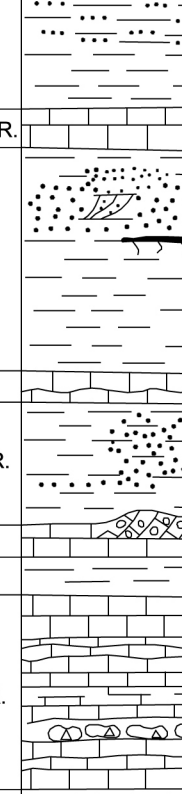
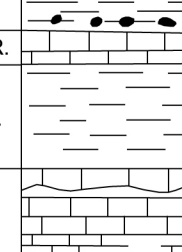


THE PENNSYLVANIAN SUBSYSTEM OF MISSOURI

(A COMPARISON OF FORMER AND PRESENT CLASSIFICATIONS)

FORMER CLASSIFICATION Howe (1961) ¹ ; revised by Thompson (1995) ²				PRESENT CLASSIFICATION Gentile and Thompson (2004) ³			
INDIAN CAVE SS.				INDIAN CAVE SS.			
STOTLER FM.	DRY SH. MBR.			DRY SH. MBR.		STOTLER FM.	
	DOVER L.S. MBR.			DOVER L.S. MBR.			
PILLSBURY SH.		PILLSBURY SH.					
ZEANDALE FM.	WAMEGO SH. MBR.			WAMEGO SH. MBR.		ZEANDALE FM.	
	TARKIO L.S. MBR.			TARKIO L.S. MBR.			
WILLARD SH.		WILLARD SH.					
EMPORIA FM.	HARVEYVILLE SH. MBR.			HARVEYVILLE SH. MBR.		EMPORIA FM.	
	READING L.S. MBR.			READING L.S. MBR.			
AUBURN SH.		AUBURN SH.					
BERN FM.	WAKARUSA L.S. MBR.			WAKARUSA L.S. MBR.		BERN FM.	
	SOLDIER CREEK SH. MBR.			SOLDIER CREEK SH. MBR.			
SCRANTON FM.		SCRANTON FM.					
HOWARD FM.	UTOPIA L.S. MBR.			UTOPIA L.S. MBR.		HOWARD FM.	
	WINZELER SH. MBR.			WINZELER SH. MBR.			
SEVERY FM.		SEVERY SH.					
TOPEKA FM.	COAL CREEK L.S. MBR.			COAL CREEK L.S. MBR.		TOPEKA FM.	
	HOLT SH. MBR.			HOLT SH. MBR.			
CALHOUN SH.		CALHOUN SH.					
DEER CREEK FM.	ERVINE CREEK L.S. MBR.			ERVINE CREEK L.S. MBR.		DEER CREEK FM.	
	OSKALOOSA SH. MBR.			OSKALOOSA SH. MBR.			
TECUMSEH SH.		TECUMSEH SH.					
LECOMPTON FM.	KING HILL SH. MBR.			KING HILL SH. MBR.		LECOMPTON FM.	
	BEIL L.S. MBR.			BEIL L.S. MBR.			
KANWAKA FM.		KANWAKA SH.					
OREAD FM.	HEEBNER SH. MBR.			HEEBNER SH. MBR.		OREAD FM.	
	LEAVENWORTH L.S. MBR.			LEAVENWORTH L.S. MBR.			
TORONTO L.S. MBR.		TORONTO L.S. MBR.					

FORMER CLASSIFICATION Howe (1961) ¹ , revised by Thompson (1995) ²				PRESENT CLASSIFICATION Gentile and Thompson (2004) ³			
"UPPER UNNAMED SH. MBR."				WATHENA SH. MBR.			
AMAZONIA L.S. MBR.				AMAZONIA L.S. MBR.			
"LOWER UNNAMED SH. MBR."				PIGEON HILL SH. MBR.			
HASKELL L.S. MBR.				SHOEMAKER L.S. MBR.			
VINLAND SH. MBR.				HASKELL L.S. MBR.			
WESTPHALIA L.S. MBR.				WESTPHALIA L.S. MBR.			
TONGANOXIE SS. MBR. ?				TONGANOXIE SS. MBR.			
IATAN L.S.				IATAN L.S. MBR.			
WESTON SH.				WESTON SH. MBR.			
SOUTH BEND L.S. MBR.				KITAKI L.S. MBR.			
ROCK LAKE SH. MBR.				GRETTA SH. MBR.			
STONER L.S. MBR.				LITTLE KAW L.S. MBR.			
EUDORA SH. MBR.				EUDORA SH. MBR.			
CAPTAIN CREEK L.S. MBR.				CAPTAIN CREEK L.S. MBR.			
VILAS SH.				VILAS SH.			
SPRING HILL L.S. MBR.				SPRING HILL L.S. MBR.			
HICKORY CREEK SH. MBR.				HICKORY CREEK SH. MBR.			
MERRIAM L.S. MBR.				MERRIAM L.S. MBR.			
BONNER SPRINGS SH.				BONNER SPRINGS SH. MBR.			
FARLEY L.S. MBR.				FARLEY L.S. MBR.			
ISLAND CREEK SH. MBR.				ISLAND CREEK SH. MBR.			
ARGENTINE L.S. MBR.				ARGENTINE L.S. MBR.			
QUINDARO SH. MBR.				QUINDARO SH. MBR.			
FRISBIE L.S. MBR.				FRISBIE L.S. MBR.			
LANE SH.				LIBERTY MEMORIAL SH.			
IOLA FM.				IOLA FM.			
CHANUTE SH.				CHANUTE SH.			
DRUM L.S.				CEMENT CITY L.S. MBR.			
QUIVIRA SH. MBR.				QUIVIRA SH. MBR.			
WESTERVILLE L.S. MBR.				WESTERVILLE L.S. MBR.			
WEA SH. MBR.				WEA SH. MBR.			
BLOCK L.S. MBR.				BLOCK L.S. MBR.			
FONTANA SH. MBR.				FONTANA SH. MBR.			
DENNIS FM.				WINTERSSET L.S. MBR.			
GALESBURG SH.				STARK SH. MBR.			
SWOPE FM.				BETHANY FALLS L.S. MBR.			
LADORE FM.				HUSHPUCKNEY SH. MBR.			
HERTHA FM.				SNIABAR L.S. MBR.			
"UPPER UNNAMED FM."				MOUND CITY SH. MBR.			
"UNNAMED SH. MBR."				BLUE MOUND SH. MBR.			
WARRENSBURG SS. MBR.				KNOB TOWN L.S. MBR.			
WELDON RIVER SS. MBR.				WELDON RIVER SS. MBR.			
SHALE HILL FM.				SHALE HILL FM.			
MANTEY SH. MBR.				MANTEY SH. MBR.			
EXLINE L.S. MBR.				EXLINE L.S. MBR.			

FORMER CLASSIFICATION Howe (1961) ¹ , revised by Thompson (1995) ²				PRESENT CLASSIFICATION Gentile and Thompson (2004) ³			
PENNSYLVANIAN SYSTEM				PENNSYLVANIAN SYSTEM			
VENTERAN STAGE				VENTERAN STAGE			
MORROWAN SERIES				MORROWAN SERIES			
ATOKAN SERIES				ATOKAN SERIES			
RIVERTON FM.				RIVERTON FM.			
"LADEN BRANCH" L.S.				"LADEN BRANCH" L.S.			
BURGNER FM.				BURGNER FM.			
McLOUTH FM. (SUBSURFACE ONLY)				McLOUTH FM. (SUBSURFACE ONLY)			
CHELTENHAM FM.				CHELTENHAM FM.			
HALE FM.				HALE FM.			
MORROWAN SERIES				MORROWAN SERIES			
ATOKAN STAGE				ATOKAN STAGE			
DESMOINESIAN STAGE AND/OR ATOKAN STAGE				DESMOINESIAN STAGE AND/OR ATOKAN STAGE			
MIDDLE PENNSYLVANIAN SERIES				MIDDLE PENNSYLVANIAN SERIES			
PENNSYLVANIAN SUBSYSTEM				PENNSYLVANIAN SUBSYSTEM			
CARBONIFEROUS SYSTEM				CARBONIFEROUS SYSTEM			
CHEROKEE GROUP				CHEROKEE GROUP			
SEVILLE FM.				SEVILLE FM.			
BLUEJACKET COAL BED				BLUEJACKET COAL BED			
BLUEJACKET SS.				BLUEJACKET SS.			
DRYWOOD COAL BED				DRYWOOD COAL BED			
ROWE FM.				ROWE FM.			
WARNER FM.				WARNER SS.			
HARTSHORNE ? FM.				HARTSHORNE ? FM.			
CROWBURG FM.				CROWBURG FM.			
FLEMING FM.				FLEMING FM.			
ROBINSON BRANCH FM.				ROBINSON BRANCH FM.			
MINERAL FM.				MINERAL FM.			
SCAMMON FM.				SCAMMON FM.			
TEBO FM.				TEBO FM.			
WEIR FM.				WEIR FM.			
VERDIGRIS FM.				VERDIGRIS FM.			
LAGONDA FM.				LAGONDA FM.			
MULKY FM.				MULKY FM.			
EXCELLO SH.				EXCELLO SH.			
BLACKJACK CREEK L.S.				BLACKJACK CREEK L.S.			
LITTLE OSAGE FM.				LITTLE OSAGE FM.			
HIGGINSVILLE L.S.				HIGGINSVILLE L.S.			
LABETTE FM.				LABETTE SH.			
PAWNEE FM.				PAWNEE FM.			
BANDERA SH.				BANDERA SH.			
ALTAMONT FM.				ALTAMONT FM.			
NOWATA SH.				NOWATA SH.			
LENAPE FM.				LENAPE FM.			
HOLDENVILLE SH.				HOLDENVILLE SH.			
HEPLER FM.				HEPLER FM.			
LOST BRANCH FM.				LOST BRANCH FM.			
MEMORIAL SH.				MEMORIAL SH.			
LENAPE FM.				LENAPE FM.			
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