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A CATALOGUE
OF THE
FOSSILS OF INDIANA.

Accompanied by a Bibliography of the Literature
Relating to Them.

BY EDWARD M. KINDLE.

In the present paper the writer has endeavored to present all of the information which is at present recorded concerning the geological range and distribution within the State of the species listed.

In such a list as the present one, which includes faunas from the Ordovician to the Pleistocene, it has not been possible to do more than present the results of the work of those who have occupied themselves in this field. The list is therefore offered only as a provisional one and as an aid to further study. Many fossils known from other States which are not here listed, as well as new species, will undoubtedly be added in the future; while some species may be found to have been based on incorrectly determined specimens. But it is hoped that it may be useful in aiding other students to add to our present imperfect knowledge of the range and distribution of species within the State, by indicating what has already been accomplished.

The writer wishes to acknowledge here his indebtedness to Prof. W. S. Blatchley for access to the collections of the State Museum, to Prof. H. S. Williams for valuable suggestions, and to Mr. A. C. Benedict for the loan of literature.

PART I. CATALOGUE OF INDIANA FOSSILS.*

	Cincinnati.	ORDOVICIAN.	Clinton.	Niagara and Water Lime.	SILURIAN.	Corniferous and Hamilton.	New Albany Shale.	Devonian.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Carboniferous.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Quaternary.	Drift.
PROTOZOA.																	
* <i>Endothyra baileyi</i> Hall. (<i>Rotalia baileyi</i>)																	
Gosport, Greencastle, Owen County and Harrison County (Hall).																	
* <i>Fusulina cylindrica</i> Fischer.																	
Lodi (C. A. White), Harrison County.																	
<i>Rotalia baileyi</i>																	
see <i>Endothyra baileyi</i> .																	
<i>Moellerina greeni</i> Ulrich.																	
Falls of the Ohio (E. O. Ulrich).																	
COELENTERATA.																	
<i>Acerrula in davidsoni</i> E. & H., 11.																	
Jeffersonville (White).																	
* <i>Acrophylum oncidaceae</i> Billings, 12.																	
Falls of the Ohio (W. J. Davis).																	
* <i>Alveolites goldfussi</i> Billings, 11.																	
Louisville, Ky. (W. J. Davis), Delphi.																	
<i>Alveolites indianensis</i> Hall, 11.																	
Delaware County (Phinney).																	
<i>Alveolites labiosa</i> Billings.																	
Falls of the Ohio (Rominger).																	
* <i>Alveolites megastoma</i> Winch.																	
Falls of the Ohio (Rominger).																	
<i>Alveolites squamosus</i> Billings.																	
Falls of the Ohio (W. J. Davis).																	
<i>Amplexus cinctus</i> Miller, 18.																	
St. Paul.																	
* <i>Amplexus coralloides</i> Sow.																	
Lanesville.																	
<i>Amplexus fragilis</i> White & St John.																	
Crawfordsville, Providence, and Harrison County.																	
<i>Amplexus (?) rockfordensis</i> M. & G.																	
Rockford (Miller & Gurley).																	

*NOTE.—Those fossils which are represented in the collections of the State Museum, according to the Sixteenth Annual Report of the State Geologist, are marked in the list with a star.

Numbers following the names of species refer to the volumes of the State Geological Survey which contain the authority for including them in the list. They have been numbered as follows:

(1). Geological Report of Indiana, 1837-38	(11). Geological Report of Indiana, 1881
(2). " " " " 1859-60	(12). " " " " 1882
(3). " " " " 1869	(13). " " " " 1883
(4). " " " " 1872	(14). " " " " 1884
(5). " " " " 1873	(15). " " " " 1885-86
(6). " " " " 1874	(16). " " " " 1888
(7). " " " " 1875	(17). " " " " 1891
(8). " " " " 1876-78	(18). " " " " 1893
(9). " " " " 1879	(19). " " " " 1894
(10). " " " " 1880	(20). " " " " 1895

When the State Reports are not cited as the authority for a species, the name of the authority is usually placed in parenthesis after the localities mentioned.

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.						QUATERNARY.		
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.
* <i>Amplexus shumardi</i> Milne E. Louisville, Ky., and Charlestown (W. J. Davis).		×										
* <i>Amplexus yandelli</i> Milne E., 11. Falls of the Ohio, Madison (Rominger, Cornett).				×								
* <i>Astraeospongia hamiltonensis</i> M. & W. Clark County.				×								
* <i>Astylospongia burra</i> Hall, 11 Waldron.		×										
<i>Astylospongia imbricato-articulata</i> F. Roem. 11. Waldron.		×										
* <i>Astylospongia praemorsa</i> Hall, 11. Waldron.		×										
<i>Astylospongia praemorsa</i> var. <i>nozmochata</i> Hall, 11 Waldron.		×										
<i>Astylospongia stellatum-sulcata</i> Roem. Waldron.		×										
<i>Aulacophyllum convergens</i> Hall, 12 Falls of the Ohio and Clark County.				×								
<i>Aulacophyllum cruciforme</i> Hall, 12. Falls of the Ohio.				×								
<i>Aulacophyllum insigne</i> Falls of the Ohio (W. J. Davis).				×								
<i>Aulacophyllum pinnatum</i> Hall, 12 Falls of the Ohio.				×								
<i>Aulacophyllum poculum</i> Hall, 12. Falls of the Ohio.				×								
<i>Aulacophyllum praeceptum</i> Hall, 12. Falls of the Ohio.				×								
<i>Aulacophyllum princeps</i> Hall, 12. Falls of the Ohio.				×								
<i>Aulacophyllum prateriforme</i> Hall, 12. Falls of the Ohio.				×								
<i>Aulacophyllum reflexum</i> Hall, 12. Falls of the Ohio.				×								
* <i>Aulacophyllum sulcatum</i> d'Orb., 12. Louisville, Ky. (W. J. Davis).				×								
<i>Aulacophyllum tripinnatum</i> Hall, 12. Falls of the Ohio.				×								
<i>Aulacophyllum triadactylum</i> Hall, 12 Charlestown and Falls of the Ohio.				×								
<i>Aulopora arachnoidea</i> Hall. Franklin County, Richmond, Madison, (Rominger (W. S. T. Cornett).	×											
<i>Aulopora cornuta</i> Falls of the Ohio (W. J. Davis).				×								
<i>Aulopora edithana</i> Falls of the Ohio (W. J. Davis).				×								
* <i>Aulopora gigas</i> Rominger, 8. Owen County, Crawfordsville, Greencastle, Harrison County, Fordice, Lanesville, Washington County, Monroe County.							×					
<i>Aulopora precisa</i> Hall, 11. Louisville, Ky., Waldron (James Hall) (W. J. Davis).		×										
<i>Aulopora rancletii</i> Hall, 12. Indiana and Kentucky.		×										
<i>Aulopora serpens</i> Goldfusi. Falls of the Ohio (W. J. Davis).				×								
<i>Azophyllum rudis</i> White & St. J., 13. Newport (C. A. White).											×	
<i>Baryphyllum d'orbignyi</i> E. & H. Charlestown.				×								

	OHIO-VALLEY.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.							
	Cincinnati.	Clinton.	Niagara and Water Laine.	Oriskany and Hamilton.	New Albany Shale.	Knobs tone and Rock- ford Limestone.	Harpington and Kookuk.	Warsaw and St. Louis.	Kaskaskia.	Massfield.	Coal Measures.	Drift.
<i>Baryophyllum fungulus</i> White												
Waldron (C. A. White).												
* <i>Blothrophyllyum acuminatum</i> (?) Hall.												
Falls of the Ohio.												
<i>Blothrophyllyum approximatum</i> Nich.												
Falls of the Ohio.												
* <i>Blothrophyllyum decorticatum</i> Billings, 11												
Falls of the Ohio, Rominger (W. J. Davis).												
<i>Blothrophyllyum promissum</i> Hall, 12.												
Falls of the Ohio.												
<i>Bucanophyllyum gracile</i> Ulrich												
Falls of the Ohio (Ulrich).												
<i>Calamopora goldfussi</i> d'Orb.												
Madison and Jennings County (Rominger).												
<i>Calapocia harrisi</i> Rominger.												
Madison (Rominger).												
<i>Calceola attenuatus</i> V. W. Lyon												
Louisville, Ky. (V. W. Lyon).												
<i>Calceola corniculatus</i> V. W. Lyon												
Louisville, Ky. (V. W. Lyon.)												
<i>Calceola cari</i> V. W. Lyon												
Louisville, Ky. (V. W. Lyon.)												
<i>Calceola tenuis</i> Knowlton												
Falls of the Ohio (Knowlton.)												
<i>Campophyllyum torquatum</i> Owen, 13.												
Vanderburgh County.												
<i>Chaetetes approximatus</i> Nicholson												
see <i>Monticullipora dalli</i> .												
<i>Chaetetes consimilis</i> Hall, 11												
see <i>Monotrypella consimilis</i> .												
<i>Chaetetes corticatus</i> Nicholson												
see <i>Spatulipora tuberculata</i> .												
<i>Chaetetes discoidens</i> James												
see <i>Amplexopora discoides</i> .												
<i>Chaetetes frondosa</i> d'Orb.												
see <i>Monticullipora frondosa</i> .												
<i>Chaetetes lycoperdon</i>												
see <i>Monticullipora lycoperdon</i> .												
<i>Chaetetes mammulatus</i>												
see <i>Monticullipora mammulatus</i> .												
* <i>Chaetetes milleporaceus</i> E. & H.												
Vanderburgh County, Newberg.												
<i>Chaetetes newberryi</i> Nich.												
see <i>Prisopora Newberryi</i> .												
<i>Chaetetes ortoni</i> Nich.												
see <i>Atactoporella ortoni</i> .												
<i>Chaetetes ponderosus</i>												
Falls of the Ohio (C. Rominger), Madison (Cornett).												
<i>Chaetetes pulchellus</i> Edw. & Haime												
see <i>Monticullipora andrewsi</i> .												
<i>Chaetetes subpulchellus</i> Nicholson												
see <i>Monticullipora subpulchellus</i> .												
* <i>Chaetetes tuberculata</i>												
see <i>Spatulipora tuberculatus</i> .												
* <i>Chonophyllyum magnificum</i> Billings												
Charlestown Landing, Falls of the Ohio, Lo- gansport.												
* <i>Chonophyllyum niagarensis</i> Hall												
Waldron, Falls of the Ohio (Rominger), Huntington County.												
* <i>Chonophyllyum ponderosum</i> Rominger												
Charleston.												

	ORONOCIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coriferous and Hamilton. New Albany Shale. Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures. Drift.		
<i>Chonophyllum cadum</i> Hall, 12 Louisville, Ky.		×			
<i>Cladopora alpenensis</i> Rominger Falls of the Ohio (W. J. Davis).			×		
* <i>Cladopora aspera</i> Rominger Falls of the Ohio.			×		
<i>Cladopora billingsi</i> Louisville, Ky. (W. J. Davis).			×		
* <i>Cladopora cryptodonta</i> Bill. Falls of the Ohio.			×		
* <i>Cladopora exspatiata</i> Rominger Falls of the Ohio (W. J. Davis).			×		
* <i>Cladopora fischeri</i> Billings Falls of the Ohio, Charleston Landing (Rom- inger).					
<i>Cladopora imbricata</i> Rominger Falls of the Ohio (Rominger) (Davis).			×		
<i>Cladopora ioensis</i> Falls of the Ohio (W. J. Davis).			×		
* <i>Cladopora labiosa</i> Billings Falls of the Ohio (W. J. Davis).			×		
* <i>Cladopora laqueata</i> Rominger Falls of the Ohio.		×			
<i>Cladopora lichenoides</i> Rominger Falls of the Ohio (Rominger).			×		
<i>Cladopora lineana</i> Roming, II. Shelby County.			×		
* <i>Cladopora ornata</i> Rominger Clark County.			×		
<i>Cladopora pinguis</i> Falls of the Ohio (W. J. Davis).			×		
<i>Cladopora pulchra</i> Rominger Falls of the Ohio (W. J. Davis).			×		
<i>Cladopora reticulata</i> Hall, 11 Louisville, Ky. (W. J. Davis), Delaware County.		×			
<i>Cladopora rimosa</i> Rominger Falls of the Ohio (W. J. Davis).			×		
* <i>Cladopora robusta</i> Rominger Falls of the Ohio (W. J. Davis), Falls of the Ohio (Rominger).					
<i>Cladopora roemeri</i> Louisville, Ky. (W. J. Davis).			×		
<i>Cladopora sarmentosa</i> Hall, 11. Waldron.		×			
* <i>Cladopora verticillata</i> W. & M. Louisville, Ky.		×			
<i>Clisophyllum conigerum</i> Rominger, 12 Falls of the Ohio.			×		
<i>Clisophyllum oneidaense</i> Billings, 11 see <i>Acrophyllum oneidaense</i> .					
<i>Coenites eripus</i> Rominger Louisville (W. J. Davis).		×			
<i>Coenites lambrinus</i> Hall Louisville (W. J. Davis).		×			
<i>Coenites ramulosa</i> Hall (Rominger).		×			
<i>Coenites verticillata</i> Louisville, Ky. (W. J. Davis).		×			
<i>Coenostroma monticulifera</i> Winch. (<i>Stromatopora monticulifera</i>) Falls of the Ohio.			×		
<i>Coleophyllum pyriforme</i> Hall, 12. Falls of the Ohio (Hall).			×		

	ORDOVICIAN.		SILURIAN.		DEVONIAN.		CARBONIFEROUS.					QUATERNARY.
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	
* <i>Cystiphyllum niagarens</i> Hall, 11. Louisville, Ky. (W. J. Davis), Delaware County.			x									
<i>Cystiphyllum ohioense</i> Nich. Louisville, Ky. (W. J. Davis).				x								
<i>Cystiphyllum pustulatum</i> Hall, 12. Falls of the Ohio.				x								
* <i>Cystiphyllum squamosum</i> . Falls of the Ohio (W. J. Davis).				x								
<i>Cystiphyllum sulcatum</i> Billings, 11. Falls of the Ohio (Rominger).				x								
<i>Cystiphyllum vesiculosum</i> Goldf., 11. Falls of the Ohio (W. J. Davis).				x								
<i>Dendrograptus chaenograptus novellus</i> Hall, 11. Waldron.			x									
<i>Dendropora alternans</i> . Louisville, Ky. (W. J. Davis).				x								
<i>Dendropora neglecta</i> . Falls of the Ohio (Rominger), Louisville, Ky. (W. J. Davis).				x								
<i>Dendropora proboscidealis</i> . Falls of the Ohio (W. J. Davis).				x								
<i>Dictyostrota undulata</i> Nicholson. Louisville, Ky. (Nicholson).			x									
<i>Diplotrapa willeri</i> Ulrich. Osgood (Ulrich).			x									
<i>Diphyphyllum adnatum</i> Hall, 12. Falls of the Ohio.				x								
<i>Diphyphyllum archiaci</i> Bill., 11. Louisville, Ky. (W. J. Davis) Shelby County.				x								
<i>Diphyphyllum gigas</i> . Falls of the Ohio (W. J. Davis).				x								
* <i>Diphyphyllum apertum</i> Hall, 12. Falls of the Ohio.				x								
* <i>Diphyphyllum angustum</i> E. & H. Falls of the Ohio (Rominger).				x								
* <i>Diphyphyllum arundinaceum</i> Billings, 11. Logansport.				x								
* <i>Diphyphyllum caespitosum</i> Hall. Delphi and Grant County.			x									
* <i>Diphyphyllum huronicum</i> Billings. Wabash.			x									
<i>Diphyphyllum panicum</i> . Louisville, Ky. (W. J. Davis).				x								
<i>Diphyphyllum simcoense</i> Billings, 11. Falls of the Ohio (W. J. Davis), Shelby County.				x								
* <i>Diphyphyllum stramineum</i> Billings, 12. Logansport and Falls of the Ohio.				x								
<i>Diphyphyllum strictum</i> . Falls of the Ohio (W. J. Davis and Nicholson).				x								
<i>Diphyphyllum tumidulum</i> Hall, 12. Falls of the Ohio.				x								
<i>Diphyphyllum vermiculatum</i> . Louisville, Ky. (W. J. Davis).				x								
<i>Drymopora intermedia</i> . Falls of the Ohio (W. J. Davis).				x								
<i>Drymopora nobilis</i> . Falls of the Ohio (W. J. Davis).				x								
* <i>Dumetella borealis</i> Nicholson. Hartsville.			x									
<i>Emmonsia cylindrica</i> , 8. Madison (Cornett).				x								

	ORDOVICIAN	SILURIAN.	DEVONIAN.	CARBONIFEROUS.					QUATERNARY.			
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Slate.	Knoxstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mauchfield.	Coal Measures.	Drift.
<i>Emmonsia hemispherica</i> Troost, 8				x								
Carroll Co., Madison (Cornett.)				x								
<i>Eridophyllum arundinaceum</i>				x								
see <i>Diphyphyllum arundinaceum</i> .												
<i>Eridophyllum dividuum</i>												
see <i>Diphyphyllum dividuum</i> .												
<i>Eridophyllum huronium</i>												
see <i>Diphyphyllum huronium</i> .												
<i>Eridophyllum rugosum</i> Edw. and Haime, 12												
see <i>Diphyphyllum rugosum</i> .												
<i>Eridophyllum sinuaceum</i> , 12												
see <i>Diphyphyllum sinuaceum</i> .				x								
<i>Eridophyllum strictum</i> Edwards and Haime, 11				x								
see <i>Diphyphyllum sinuaceum</i> .												
<i>Favistella stellata</i> Hall 12 and 11	x											
Madison (Rominger).												
* <i>Favosites emundensis</i> Billings, 11				x								
Falls of the Ohio (W. J. Davis) Shelby County.												
* <i>Favosites cavernosus</i> Rominger				x								
Falls of the Ohio.												
* <i>Favosites clunensis</i> Rominger, 11												
Falls of the Ohio (Rominger - Davis).												
* <i>Favosites cristatus</i>				x								
Louisville (Davis).												
<i>Favosites cristatus</i> var. <i>major</i> .				x								
Falls of the Ohio (Davis).												
<i>Favosites furvus</i> Hall, 11	x											
Delaware County.												
* <i>Favosites digitatus</i> Rominger				x								
Louisville, Ky. (Davis).												
* <i>Favosites eumores</i> Rominger, 12												
Louisville, Charlestown, Falls of the Ohio (Davis).												
* <i>Favosites epidermatus</i> Rominger, 11				x								
Falls of the Ohio, Logansport, Bartholomew County.												
<i>Favosites fibrosa</i>				x								
Madison (Cornett).												
* <i>Favosites furvus</i> Goldfuss, 12			x									
Franklin County (Moore), Louisville (Davis)												
<i>Favosites forbesi</i>			x									
Louisville (Davis).												
* <i>Favosites forbesi</i> var. <i>occidentalis</i> Hall, 11			x									
Waldron, Franklin County (Moore).												
<i>Favosites goldfussi</i>												
see <i>Calanopora goldfussi</i> .												
<i>Favosites gotthardicus</i> Lamark, 8				x								
Madison.												
* <i>Favosites hemispherica</i> Y. and S., 12				x								
Falls of the Ohio, Franklin County (Moore).												
<i>Favosites hisingeri</i> Milne Edwards			x									
(Rominger).												
* <i>Favosites hypodur</i> Rominger.			x									
Delphi.												
<i>Favosites intertextus</i> Rominger				x								
Falls of the Ohio (Rominger).												
* <i>Favosites lividaris</i> Rominger, 12				x								
Falls of the Ohio (Rominger).												
<i>Favosites maximus</i> Troost.			x									
Falls of the Ohio (Rominger).												
* <i>Favosites niagarensis</i> Hall			x									
Louisville (Davis) Waldron, Madison, Charlestown, Wabash County, Huntington County, Miami County.												

	CINCINNATI.	CLINTON.	Niagara and Water Lime.	Corbinians and Hamilton.	New Albany Shale.	Knobs-stone and Rock- ford Limestone, Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mass-field.	Geol. Measures.	QUATER- NARY.
* Favosites placenta Rominger. Falls of the Ohio (Davis).				X							
* Favosites pleurodictyoides Nicholson. Charlestown.				X							
Favosites polymorpha Goldfuss, II Madison.				X							
* Favosites radiatus Rominger. Falls of the Ohio, Hartsville (Davis).				X							
* Favosites radiceformis Rominger. Falls of the Ohio (Davis).				X							
Favosites ramosa, S. Madison.				X							
* Favosites springerianus Hall, II. Waldron (James Hall).			X								
* Favosites spongilla Rominger. Louisville (Davis), St. Paul (Rominger).			X								
* Favosites tuberosus Rominger. Charlestown, Falls of the Ohio (Rominger).				X							
* Favosites turbinatus Billings. Falls of the Ohio.				X							
Favosites venustus Hall, 12. Louisville (Davis).			X								
Favosites winchelli Rominger. Falls of the Ohio (Rominger).				X							
* Fistulipora acerulosa Rominger. Falls of the Ohio.				X							
Fistulipora canadensis Billings, 11. (Rominger).				X							
Fistulipora intercellata Hall. Falls of the Ohio (Hall).				X							
Glossotrypa puliformis Hall. Falls of the Ohio (Hall).				X							
* Heliophyllum d'orbigny. Louisville, Ky., Clark County (W. J. Davis).				X							
* Heliophyllum calcutatum Linn., II. Franklin County (Moore), Wabash County, Carroll County, Huntington County, Os- age (Foerste).		X	X								
* Heliophyllum labyrinthicus Goldf. Delphi.			X								
Heliolites interstinctus Linn., 12. Huntington (Rominger).			X								
Heliolites inaequalis McCoy, II. Louisville (W. J. Davis), Delaware County.			X								
Heliolites pyriformis Guettard. Louisville (W. J. Davis).				X							
Heliolites subulatus McCoy. Louisville (W. J. Davis).				X							
Heliophyllum annulatum Hall, 12. Scott and Clark Counties.				X							
* Heliophyllum coalitum Rominger, 12. Delphi.				X							
Heliophyllum compactum Hall, 12. Falls of the Ohio.				X							
Heliophyllum corniculatum Hall, 12. Falls of the Ohio.				X							
Heliophyllum denticulatum Hall, 12. Falls of the Ohio.				X							
Heliophyllum distans Hall, 12. Falls of the Ohio.				X							
Heliophyllum equum Hall, 12. Falls of the Ohio.				X							
* Heliophyllum exiguum Bill., 11. Falls of the Ohio, Shelby County.				X							

	ORDOVICIAN.		SILURIAN.		DEVONIAN.		CARBONIFEROUS.					QUATERNARY.
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Manassas.	Coal Measures.	
<i>Heliophyllum fecundum</i> Hall, 12.....				/								
Falls of the Ohio.				/								
* <i>Heliophyllum gemmatum</i> Hall, 12.....				/								
Falls of the Ohio.				/								
* <i>Heliophyllum germiniferum</i> Hall.....				/								
Falls of the Ohio.				/								
* <i>Heliophyllum halli</i> E. & H., 12.....				/								
Falls of the Ohio.				/								
<i>Heliophyllum incrassatum</i> Hall, 12.....				/								
Falls of the Ohio.				/								
<i>Heliophyllum invaginatum</i> Hall, 12.....				/								
Falls of the Ohio.				/								
<i>Heliophyllum lateri-crenatum</i> Hall, 12.....				/								
Falls of the Ohio.				/								
<i>Heliophyllum nettlesheimi</i> Hall, 12.....				/								
Falls of the Ohio.				/								
<i>Heliophyllum sordidum</i> Hall, 12.....				/								
Falls of the Ohio.				/								
* <i>Heliophyllum parvum</i> Hall, 12.....				/								
Falls of the Ohio.				/								
* <i>Heliophyllum scyphus</i> Hall, 12.....				/								
Charlestown.				/								
* <i>Heliophyllum tenuicrinatum</i> Hall, 12.....				/								
Charlestown, Falls of the Ohio.				/								
<i>Hypothyrida inflata</i> Hall.....				/								
see <i>Stomatopora inflata</i> .				/								
<i>Houghtonia huronica</i> Rominger				/								
see <i>Calymene huronica</i> (Rominger).				/								
<i>Hydrophyllum arbutum</i> Edw. and Haime, 8.....		/	/	/								
Madison.				/								
<i>Intropora pretzelata</i> Hall.....				/								
Falls of the Ohio (Hall).				/								
<i>Inocaulis divaricata</i> Hall, 11.....			/	/								
Waldron.				/								
<i>Lichenalia alternata</i> Hall.....				/								
Falls of the Ohio.				/								
<i>Lichenalia (Oolotrypa) alveata</i> Hall.....				/								
Falls of the Ohio (Hall).				/								
<i>Lichenalia bistrata</i> Hall.....				/								
Falls of the Ohio.				/								
<i>Lichenalia (Selenopora) circinata</i> Hall.....				/								
Falls of the Ohio.				/								
<i>Lichenalia (Pileotrypa) clivulata</i> Hall.....				/								
see <i>Pileotrypa clivulata</i> .				/								
<i>Lichenalia (Selenopora) complexa</i> Hall.....				/								
Falls of the Ohio (Hall).				/								
* <i>Lichenalia concentrica</i> Hall, 11.....			/	/								
Waldron.				/								
<i>Lichenalia emulata</i> Hall.....				/								
Falls of the Ohio (Hall).				/								
<i>Lichenalia (Pileotrypa) denticulata</i> Hall.....				/								
see <i>Pileotrypa denticulata</i> .				/								
<i>Lichenalia geometrica</i> Hall.....				/								
Falls of the Ohio (Hall).				/								
<i>Lichenalia (Lichenotrypa) longispina</i> Hall.....				/								
see <i>Lichenotrypa longispina</i> .				/								
<i>Lichenalia lunata</i> (Rominger) Hall.....				/								
see <i>Ruseopora lunata</i> .				/								
* <i>Lichenalia maculata</i> Hall.....			/	/								
Waldron.				/								
<i>Lichenalia orata</i> Hall.....				/								
Falls of the Ohio.				/								
<i>Lichenalia (?) (Glossotrypa) paliformis</i> Hall.....				/								
see <i>Glossotrypa paliformis</i> .				/								

	ORDOVICIAN.		SILURIAN.	DEVONIAN.	CARBONIFEROUS.						QUATERNARY.	
	Cincinnati.	Clinton.	Niagara and Water Lime.	Coniferous and Hamilton.	New Albany Shale.	Keokuk and Rock- ford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Saskatchewan.	Mansfield.	Coal Measures.	Drift.
<i>Lichenaria (Pileostrophia) pyriformis</i> Hall.....				X								
Falls of the Ohio. (Hall).												
<i>Lichenaria suberosa</i> Hall.....				X								
Falls of the Ohio.												
<i>Lichenaria substellata</i> Hall.....				X								
Falls of the Ohio.												
<i>Lichenostrophia longispina</i> Hall.....			X									
Falls of the Ohio (Ulrich).												
<i>Limaria ramulosa</i> Hall.....												
see <i>Coenites ramulosa</i> .												
* <i>Lithostrophia can.</i> see Castellan, S.								X				
Owen County, Putnam County, Orange County, Harrison County, Montgomery County.....												
<i>Lithostrophia mamillatus</i> Herzer, S.								X				
Harrison County.												
* <i>Lithostrophia proliferum</i> Hall, S.						X	X	X				
Orange County, Owen County, Monroe Coun- ty, Putnam County, Harrison County.												
<i>Lophophyllum proliferum</i> McChesney, B.											X	
Throughout the coal measures.												
* <i>Lyellia americana</i> E. & H., II.			X									
Louisville (Davis).												
<i>Lyellia glabra</i>			X									
Louisville (Davis).												
* <i>Lyellia papillata</i> Rominger.....			X									
Louisville (Davis).												
* <i>Lyellia parvifolia</i> Rominger.....												
(Rominger).												
* <i>Michelinia cloppi</i> (Milne E.) Rominger.....				X								
Falls of the Ohio (Rominger).												
* <i>Michelinia cylindrica</i> E. & H.				X								
Falls of the Ohio (Davis).												
<i>Michelinia eugenei</i> White, B.											X	
Vermillion County (C. A. White).												
* <i>Michelinia favosoides</i> Billings.....				X								
Falls of the Ohio (Davis).												
* <i>Michelinia insignis</i> Rominger.....				X								
Falls of the Ohio (Rominger).												
<i>Monotrypa sulquadrata</i> Ulrich.....	X											
Osgood (Miller), (Ulrich).												
* <i>Monticula approximata</i> Nicholson, 12.....	X											
Madison.												
<i>Monticulipora daltii</i> E. & H., S.	X											
Madison (Cornett).												
<i>Monticulipora discoides</i> James (Hall), 12.....	X											
* <i>Monticulipora fibrosa</i> Goldfuss.....	X	X										
North Vernon, Madison (Cornett).												
* <i>Monticulipora flava</i> d'Orb.	X											
Richmond, Madison (James).												
* <i>Monticulipora frondosa</i> d'Orb., 11.....	X											
Madison.												
<i>Monticulipora gracilis</i> James (Hall).....	X											
<i>Monticulipora irregularis</i> d'Orb.	X											
Hamilton County.												
* <i>Monticulipora jamesi</i> Nich.	X											
Madison.												
* <i>Monticulipora lycoperdon</i> Say.....	X											
Madison.												
<i>Monticulipora mamulata</i> d'Orb., 12.....	X											

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coriferous and Hamilton. New Albany Shale.	Knoxbone and Rock- ford Limestone. Burlington and Kokak. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
* <i>Monticulipora ortoni</i> Hall..... Madison.	X				
* <i>Monticulipora papillata</i> McCoy..... Richmond.	X				
* <i>Monticulipora petechialis</i> Nich..... Richmond and Madison.	X				
* <i>Monticulipora petropolitana</i> Pander..... Madison.	X				
* <i>Monticulipora pulchella</i> E. & H..... Madison.	X				
<i>Monticulipora (Fistulipora) rustica</i> Ulrich..... (James).	X				
<i>Monticulipora simulatrix</i> Ulrich..... (James).	X				
* <i>Monticulipora subpulchella</i> Nich..... Richmond.	X				
<i>Monticulipora tuberculata</i> E. & H. (Hall), 12.....	X				
* <i>Ophyma verrucosa</i> Louisville, Ky. (W. J. Davis).		X			
* <i>Palaecophyllum divaricans</i> Nich., 11..... Franklin County (Moore).	X				
<i>Palaecis cuneata</i> M. & W., 11..... Harrison County, Washington County, Sper- gon Hill.				X	
<i>Palaecis enornis</i> M. & W., 8..... Rockford, Harrison County.				X	
* <i>Palaecis obtusus</i> M. & W..... Harrison County, Lanesville.				X X	
* <i>Phillipsastrea gigas</i> Owen..... Charlestown.		X			
* <i>Phillipsastrea verneuili</i> E. & H..... Madison, Jasper County.		X			
* <i>Phillipsastrea yandelli</i> Rominger..... Charlestown, Falls of the Ohio (Rominger).		X			
* <i>Plasmopora elegans</i> Louisville (Davis).		X			
* <i>Plasmopora foliis</i> Milne-Edwards..... Pauls Station, Charlestown Landing (Rom- inger).		X			
<i>Plasmopora scita?</i> Milne-Edwards..... Pauls Station (Rominger).		X			
<i>Prismopora sparsipora</i> Hall..... Falls of the Ohio (Ulrich).		X			
<i>Prismopora triquetra</i> Hall..... Falls of the Ohio (Hall).			X		
<i>Protarea vetusta</i> Hall, 11..... Madison (W. S. T. Cornett), Richmond (Winchell & Seluchert).	X				
<i>Psychophyllum stokesi</i> Louisville, Ky. (W. J. Davis).		X			
* <i>Receptaculites elrodi</i> Miller, 18..... Hartsville.			X		
* <i>Receptaculites hemisphericus</i> Hall..... Grant County and Delphi.		X			
* <i>Receptaculites miculus</i> Hall 11.....		X			
* <i>Receptaculites suburbanatus</i> Hall, 11..... Hartsville.		X			
<i>Romingeria umbilifera</i> Falls of the Ohio (W. J. Davis).			X		
<i>Sphenopterium cuneatum</i> <i>see Palaecis cuneatum.</i>					

	ORDOVICIAN		SILURIAN		DEVONIAN		CARBONIFEROUS						QUATERNARY
	Cincinnati		Clinton	Niagara and Water Lime	Corruterous and Hamilton	New Albany Shale	Knobstone and Rockford Limestone	Burlington and Keokuk	Warsaw and St. Louis	Kaskaskia	Mansfield	Coal Measures	
<i>Sphenopterium enorme</i> M and N.....													
see <i>Palaecis enorme</i>													
* <i>Stellipora antheloides</i> Hall.....	X												
Madison (Cornett).....													
<i>Stenopora fibrosa</i>													
see <i>Monticulipora fibrosa</i>													
<i>Stenopora petropolitana</i>	X												
Madison (W. S. T. Cornett).....													
<i>Stomatopora inflata</i> Hall (<i>Hippothoa inflata</i>).....	X												
Franklin County (Moore).....													
<i>Streptelasma (Duncanella) borealis</i> Hall, 11.....				X									
Waldron (Hall).....													
<i>Streptelasma coarctatum</i> Hall, 12.....					X								
Louisville, Ky.....													
* <i>Streptelasma crassum</i> Hall.....	X												
Richmond.....													
* <i>Streptelasma cornutum</i> Hall, 11.....	X			X									
Madison, Richmond (Rominger), Franklin County (Moore).....													
<i>Streptelasma inflatum</i> Hall, 12.....					X								
Falls of the Ohio.....													
<i>Streptelasma mammiferum</i> Hall, 12.....					X								
Falls of the Ohio.....													
<i>Streptelasma obliquum</i> Foerste.....			X										
Hanover.....													
<i>Streptelasma papillatum</i> Hall, 12.....					X								
Falls of the Ohio.....													
<i>Streptelasma parvulum</i>	X												
Madison (W. S. T. Cornett).....													
* <i>Streptelasma radicans</i> Hall, 11.....	X			X									
Waldron (Hall), Franklin County (Moore).....													
<i>Streptelasma rusticum</i> Bill.....	X												
Richmond, (Whitell and Schuchert).....													
<i>Streptelasma simplex</i> Hall, 12.....					X								
Falls of the Ohio.....													
* <i>Streptelasma spongiaria</i> Rominger.....				X									
Hartsville, Grant County, and St. Paul.....													
<i>Streptelasma tenue</i> Hall, 12.....					X								
Falls of the Ohio.....													
* <i>Striatopora cavernosa</i> Rominger.....					X								
Falls of the Ohio.....													
<i>Striatopora garbyi</i> Miller, 13.....				X									
St. Paul.....													
<i>Striatopora huronensis</i> Rominger.....					X								
Falls of the Ohio (Davis).....													
<i>Striatopora linnaea</i> Billings, 11.....					X								
Falls of the Ohio (Rominger).....													
* <i>Stromatopora concentrica</i> Goldfuss.....			X		X								
Madison (Cornett).....													
* <i>Stromatopora constellata</i> Hall.....					X								
Logansport, Falls of the Ohio.....													
* <i>Stromatopora densum</i> Nich., 12.....					X								
Charlestown.....													
* <i>Stromatopora granulata</i> Nich.....					X								
Falls of the Ohio.....													
<i>Stromatopora indianensis</i> James.....	X												
Connersville (James).....													
* <i>Stromatopora mamillata</i> Nich.....					X								
Clark County.....													
* <i>Stromatopora monticulifera</i> W. & M.....													
see <i>Stromatopora monticulifera</i>													
* <i>Stromatopora nodulata</i> Nich., 11.....					X								
Shelby, Clark and Cass Counties.....													

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Corriferous and Hamilton. New Albany Shale.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Zaphrentis centralis</i> E. and H., 8. Harrison County.					
<i>Zaphrentis compressa</i> Rominger, 12. Falls of the Ohio (W. J. Davis).			×		
<i>Zaphrentis concava</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis conigera</i> Rominger, 11. Falls of the Ohio (Rominger).			×		
<i>Zaphrentis convoluta</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis cornuta</i> Leseur. Falls of the Ohio, Charlestown (Rominger), Madison.			×		
<i>Zaphrentis cornucopia</i> , 10. Putnam County and Monroe County.				×	
<i>Zaphrentis (Amplexus) cruciforme</i> Fall, 12. Falls of the Ohio.			×		
<i>Zaphrentis cyathiformis</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis dalei</i> E. and H. Monroe County, Putnam County, Harrison County, Owen County, Greencastle, Craw- fordsville.				×	
<i>Zaphrentis daviana</i> Miller. Falls of the Ohio.			×		
<i>Zaphrentis declivus</i> Miller. New Providence (Miller).				×	
<i>Zaphrentis deformis</i> Hall, 12. Charlestown.			×		
<i>Zaphrentis duplicata</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis elegans</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis elliptica</i> White, 8. Harrison County, Spergen Hill (R. P. Whit- field).				×	
<i>Zaphrentis eriguum</i> Billings. Falls of the Ohio.			×		
<i>Zaphrentis foliata</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis gibbosa</i> White. Vermillion County (C. A. White).					×
<i>Zaphrentis gigantica</i> Rafinesque, 11. Madison, Jennings County, Falls of the Ohio (Rominger).			×		
<i>Zaphrentis herzeri</i> Hall, 12. Charlestown.			×		
<i>Zaphrentis nitida</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis nodulosa</i> Rominger. Falls of the Ohio (W. J. Davis).			×		
<i>Zaphrentis ocellis</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis planina</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis ponderosa</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis profunda</i> Hall, 12. Falls of the Ohio.			×		
<i>Zaphrentis prolifica</i> Billings. Louisville, Ky. (W. J. Davis).			×		
<i>Zaphrentis radicans</i> Louisville, Ky. (W. J. Davis).		×			

Coal Measures.	Drift.	QUATER-NARY.	ORDOVICIAN.										QUATER-NARY.		
			Cincinnati.	Clinton.	Niagara and Water Lime.	Coriferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.		Coal Measures.	Drift.

	ORDOVICIAN.		SILURIAN.		DEVONIAN.		CARBONIFEROUS.						QUATERNARY.
	Cincinnati.		Clinton. Niagara and Water Lime.		Coriuteros and Hamilton.	New Albany Shale.	Knobstone and Rock- ford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	
* <i>Ancyrocrinus bulbosus</i> Hall Falls of the Ohio.					×								
<i>Ancyrocrinus spinosus</i> Hall Clark County.					×								
<i>Archaeocidaris agassizi</i> Hall, 8 Harrison County.							×	×					
* <i>Archaeocidaris keokuk</i> Hall. Bono.							×						
* <i>Archaeocidaris norwoodi</i> Hall, 8 Harrison County.							×						
* <i>Archaeocidaris wortheni</i> Hall, 8. Harrison County and Orange County.							×	×					
<i>Barycrinus elrodi</i> Miller & Gurley Spergen Hill (Miller & Gurley).								×					
<i>Barycrinus formosus</i> M. & G. Washington County (Miller & Gurley).							×						
* <i>Barycrinus herculeus</i> M. & W., 16. Crawfordsville, Harrison County.							×						
<i>Barycrinus hopeyi</i> Hall, 8 (<i>Cyathocrinus hopeyi</i>), 16 Harrison County, Crawfordsville (Meek & Worthen).							×						
* <i>Barycrinus magister</i> Hall. (<i>Cyathocrinus mag-</i> <i>ister</i>), 8. Harrison County, Spergen Hill & Lanesville (R. P. Whitfield).							×						
* <i>Barycrinus pentagonus</i> Worthen, 8. Harrison County and Crawfordsville.							×						
<i>Barycrinus princeps</i> Miller, 16. Crawfordsville.							×						
<i>Barycrinus sculptilis</i> Hall. (<i>Cyathocrinus sculp-</i> <i>tilis</i>) Clark County.					×								
<i>Barycrinus spectabilis</i> M. & W., 8. Harrison County.							×						
* <i>Barycrinus stellatus</i> Troost. Crawfordsville.							×						
<i>Barycrinus stelleri</i> Miller, 18. Harrison County.							×						
<i>Barycrinus tumidus</i> Hall. Monroe County.							×						
<i>Barycrinus washingtonensis</i> Miller & Gurley, 27 Washington County (Miller & Gurley).							×						
* <i>Batoerinus aequalis</i> Hall. Smithville.							×						
<i>Batoerinus agnatus</i> Miller, 17. Montgomery County.							×						
<i>Batoerinus arcata</i> Miller & Gurley. Washington County (Miller & Gurley).								×					
<i>Batoerinus asteriscus</i> M. & W., 8. Harrison County.								×					
* <i>Batoerinus biturbinatus</i> Hall. (<i>Aetinoerinus bi-</i> <i>turbinatus</i>) Spergen Hill, Monroe and Harrison Coun- ties (R. P. Whitfield).							×	×					
<i>Batoerinus cantonensis</i> Miller, 16. Canton.							×						
* <i>Batoerinus caroli</i> Hall. Lanesville.								×					
<i>Batoerinus cistula</i> Miller & Gurley. Lanesville (Miller & Gurley).								×					
<i>Batoerinus crawfordsvillensis</i> Miller, 17. Crawfordsville.							×						
<i>Batoerinus calyculus</i> Hall, 15. Washington County.								×					

Coal Measures.	Drift.	QUATER- SARY.	CINOVIGIAN.	SILU- RIAN.	DEVON- IAN.	CARBONIFEROUS.						QUATER- SARY.		
			Cincinnati.	Clinton.	Niagara and Water Lime.	Carboniferous and Hamilton.	New Albany Shale.	Knoxstone and Rock- ford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures	Drift.
		<i>Butoerinus decorus</i> Miller, 17..... Spargen Hill.								x				
		<i>Butoerinus decrepitus</i> , 18..... Montgomery County.								x				
		<i>Butoerinus facetus</i> Miller, 16..... Canton.						x						
		* <i>Butoerinus iconidactylus</i> Casseday, 8..... Spargen Hill, Monroe County, Harrison County (R. P. Whitfield), Greencastle, Washington County.							x					
		* <i>Butoerinus indianensis</i> Casseday & Lyon (<i>Ac- tinoerinus indianaensis</i>), 16..... Crawfordsville, Harrison County, Monroe County and Washington County.						x						
		* <i>Butoerinus inequalis</i> Hall, 8..... Harrison County.								x				
		* <i>Patoerinus irregularis</i> Casseday, 8..... Spargen Hill, Monroe County, Washing- ton County, Harrison County.								x				
		<i>Butoerinus fucutus</i> Miller & Gurley, 16..... Crawfordsville (Miller & Gurley).						x						
		* <i>Butoerinus lagunculus</i> Hall (<i>Actinocrinus lagun- culus</i>)..... Washington and Monroe counties.							x					
		<i>Butoerinus variatus</i> Miller & Gurley, 16..... Crawfordsville (Miller & Gurley).						x						
		<i>Butoerinus montgomeryensis</i> Worthen..... Crawfordsville (A. H. Worthen).						x						
		* <i>Butoerinus mundulus</i> (?) Hall..... Washington County.						x	x					
		<i>Butoerinus pileus</i> Miller & Gurley..... Washington County (Miller & Gurley).							x					
		<i>Butoerinus pistillum</i> M. & W., 15..... Washington County and Edwardsville.						x						
		* <i>Butoerinus plano-discus</i> Hall, 15..... Washington County, Bono.						?	x					
		* <i>Butoerinus pyriformis</i> Schumard..... Washington County.							x					
		<i>Butoerinus sacculus</i> Miller & Gurley..... Washington County (Miller & Gurley).							x					
		<i>Butoerinus spargensis</i> Miller, 17..... Spargen Hill.							x					
		<i>Butoerinus wachsmuthi</i> White (<i>Actinocrinus</i> <i>wachsmuthi</i>), 16..... Crawfordsville.							x					
		* <i>Butoerinus whittii</i> Wachs. & Spr..... Bono (Wachs. & Springer).							x					
		<i>Calceocrinus ? bradleyi</i> Meek..... see <i>Deltacrinus bradleyi</i> .												
		<i>Calceocrinus indianensis</i> Miller, 17..... St. Paul and Jefferson County.		x										
		<i>Calceocrinus nodosus</i> Hall..... see <i>Deltacrinus nodosus</i> .												
		<i>Calceocrinus stigmatius</i> Hall, 11..... see <i>Deltacrinus stigmatius</i> .												
		<i>Callierinus beachleri</i> W. & S..... St. Paul (Wachs. & Spr).		x										
		<i>Caryocrinus ellipticus</i> Miller & Gurley..... Osgood (Miller & Gurley).		x										
		* <i>Caryocrinus ornatus</i> Say..... Madison, Jennings County, Utica, Clark County and Ripley County.	x	x	x									
		* <i>Catilloerinus bradleyi</i> M. & W., 8..... Harrison County, Crawfordsville.						x	x					

	QUATERNARY.	DRIFT.	COAL MEASURES.
Cincinnati.	Clinton.	Niagara and Water Lime.	SILURIAN.
		Corbitous and Hamilton.	DEVONIAN.
		New Albany Shale	
		Knobstone and Rockford Limestone.	
		Burlington and Keokuk.	
		Warsaw and St Louis.	
		Kaskaskia.	
		Mansfield.	
		Coal Measures	
		Drift.	QUATERNARY.
<i>Cyrtocrinus (?) in tianensis</i> Mill. & G. St. Paul (Miller & Gurley).		x	
<i>Cyrtocrinus garbyi</i> Miller, 18. St. Paul.		x	
<i>Dendrocrinus ancilla</i> Hall, 11. Waldron.		x	
* <i>Dendrocrinus polydactylus</i> Shumard (<i>Homo-</i> <i>crinus polydactylus</i>) Richmond, Madison and Franklin Counties (Shumard).	x		
<i>Dichocrinus constrictus</i> M. & W., 8 Monroe County, Harrison County and Wash- ington County.			x
<i>Dichocrinus cornigerus</i> Shumard, 8 Harrison County.			x
<i>Dichocrinus dichotomus</i> Hall, 15 Washington County.			x
* <i>Dichocrinus expansus</i> M. & W. Harrison County.			x
* <i>Dichocrinus ficus</i> Cassaday & Lyon, 16 Harrison County, Montgomery County, Crawfordsville (C. & L.).			x
<i>Dichocrinus lineatus</i> M. & W., 8 Harrison County.			x
<i>Dichocrinus pinnus</i> Meek & Worthen, 8 Harrison County.			x
<i>Dichocrinus polydactylus</i> Cassaday & Lyon, 16. . Montgomery County (Cassaday & Lyon).			x
<i>Dichocrinus sculptus</i> C. & L., 10 Monroe County.			x
<i>Dichocrinus seclabatus</i> Shumard, 8 <i>see Talarocrinus sexlobatus.</i>			x
* <i>Dichocrinus simplex</i> Shumard, Harrison County, Bloomington, Washington County, Monroe County, Spergen Hill (Whitfield).			x
<i>Dichocrinus spinifera</i> , 10. Reelsville, Putnam County.			x
<i>Dichocrinus sinuatus</i> O. & S., 8. Harrison County.			x
<i>Dichocrinus ulrichi</i> Miller, 16. Bono.			x
<i>Dolatocrinus amplius</i> Miller & Gurley. Charlestown (Miller & Gurley).			x
<i>Dolatocrinus apertus</i> Miller & Gurley Charlestown (Miller & Gurley).			x
<i>Dolatocrinus approximatus</i> (Miller & Gurley) Louisville, Ky. (Miller & Gurley).			x
<i>Dolatocrinus argutus</i> Miller & Gurley Charlestown (Miller & Gurley).			x
<i>Dolatocrinus bellulus</i> Miller & Gurley Charlestown (Miller & Gurley).			x
<i>Dolatocrinus bellarugosus</i> Miller & Gurley. Charlestown (Miller & Gurley).			x
<i>Dolatocrinus bradleyi</i> (Calceocrinus bradleyi), 16 Crawfordsville (Meek).			x
<i>Dolatocrinus bulbaceus</i> Miller & Gurley Charlestown (Miller & Gurley).			x
<i>Dolatocrinus caelatus</i> Miller & Gurley Charlestown (Miller & Gurley).			x
<i>Dolatocrinus charlestownensis</i> Miller & Gurley... Charlestown (Miller & Gurley).			x
<i>Dolatocrinus corporosus</i> Miller & Gurley. Charlestown (Miller & Gurley).			x

[illegible]

Coal Measures.	Drift.	QUATER- NARY.	ORDOVICIAN.	SILU- RIAN.	DEVON- IAN.	CARBONIFEROUS.	QUATER- NARY.	
			Cincinnati.	Clinton.	Niagara and Water Laine.	Corniferous and Hamilton. New Albany Shale.	Knox shale and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia Mansfield. Coal Measures.	Drift.
			<i>Holocystites rotundus</i> Miller.....		✓			
			Ripley County (Miller).		✓			
			<i>Holocystites scitulus</i> Miller, 17.....		✓			
			Jefferson County.		✓			
			<i>Holocystites spangleri</i> Miller, 17.....		✓			
			Jefferson County.		✓			
			<i>Holocystites sphaeroidalis</i> M. & G.....		✓			
			Madison (Miller & Gurley).		✓			
			<i>Holocystites splendens</i> M. & G.....		✓			
			Madison (Miller & Gurley).		✓			
			<i>Holocystites subovatus</i> Miller, 17.....		✓			
			Jefferson County.		✓			
			<i>Holocystites subrotundus</i> Miller.....		✓			
			Ripley County (Miller).		✓			
			<i>Holocystites tumidus</i> Miller.....		✓			
			Ripley County (Miller).		✓			
			<i>Holocystites turbinatus</i> Miller.....		✓			
			Osgood and Ripley County (Miller).		✓			
			<i>Holocystites ventricosus</i> Miller.....		✓			
			Ripley County (Miller).		✓			
			<i>Holocystites wetherbyi</i> Miller.....		✓			
			Ripley County (Miller).		✓			
			<i>Holocystites wykoffi</i> Miller, 17.....		✓			
			Jefferson County.		✓			
			<i>Hemioerinus polydactylus</i>		✓			
			see <i>Dendroerinus polydactylus</i> .		✓			
			<i>Hydroerinus armiger</i> M. & W., 8.....		✓			
			(<i>Zenocrinus armiger</i>) Harrison County.		✓			
			<i>Hydroerinus macrospinus</i> McChesney.....		✓			
			(<i>Zenocrinus macrospinus</i>) Rus. Creek (Mc- Chesney).		✓			
			<i>Hyptioerinus typus</i> W. & S.....		✓			
			St. Paul (Wachs. & Spr.).		✓			
			<i>Ichthyocrinus clarkensis</i> Miller & Gurley.....		✓			
			Clark County (Miller & Gurley).		✓			
			* <i>Ichthyocrinus simplex</i> Hall.....		✓			
			Waldron.		✓			
			<i>Ichthyocrinus spinosulus</i> Miller & Gurley.....		✓			
			Clark County (Miller & Gurley).		✓			
			<i>Ichthyocrinus subangularis</i> Hall, II.....		✓			
			Waldron (James Hall).		✓			
			<i>Ichthyocrinus pusillus</i> (?) Hall.....		✓			
			Waldron (J. Hall).		✓			
			<i>Idioerinus elongatus</i> W. & S.....		✓			
			St. Paul (Wachs. & Spr.).		✓			
			<i>Idioerinus suberosus</i> Meek & Worthen.....		✓			
			(<i>Heterocrinus suberosus</i> (W. S. T. Cornett).		✓			
			<i>Idioerinus ventricosus</i> W. & S.....		✓			
			St. Paul (Wachs. & Spr.).		✓			
			<i>Indanoerinus punctatus</i> M. & G.....		✓			
			St. Paul (Miller & Gurley).		✓			
			<i>Lampterocrinus parvus</i> Hall, II.....		✓			
			Waldron.		✓			
			<i>Leaenocrinus greeni</i> Miller & Gurley.....		✓			
			Louisville, Ky. (Miller & Gurley).		✓			
			* <i>Leaenocrinus pusillus</i> Hall, II.....		✓			
			Waldron (James Hall).		✓			
			<i>Lepidocrinus moorei</i> Meek.....		✓			
			Richmond (Meek).		✓			
			<i>Lepidæthes colletti</i> White, 16.....		✓			
			Crawfordsville, Washington County, Salem and Harrison Counties (O. A. White).		✓			
			<i>Lepidæthes coreyi</i> M. & W., 16.....		✓			
			Crawfordsville (Meek & Worthen).		✓			

	Marsfield.	Coal Measures.	Drift.	QUATER- NARY.	US.
Nucleocrinus greenei M. & G.....					
Louisville, Ky. (Miller & Gurley).					
*Nucleocrinus verneuili Troost (Olivianites ver-					
neuilli)					
Falls of the Ohio.					
Nucleocrinus venustus M. & G.....					
Louisville, Ky. (Miller & Gurley).					
*Oligoporus danae M. & W.....					
Lawrence County.					
*Oligoporus nobilis M. & W., 8.....					
Harrison County and Greencastle.					
Olivianites angularis Lyon.....					
see Nucleocrinus angularis.					
Olivianites verneuili Troost.....					
see Nucleocrinus verneuili.					
Ollaocrinus tuberosus Lyon & Cass., 16.....					
Crawfordsville.					
Onychaster flexilis M. & W., 16.....					
Crawfordsville, Harrison County, Meek &					
Worthen.					
Onychocrinus cantonensis Miller, 16.....					
Canton.					
*Onychocrinus occulptus (Lyon & Casseday), 16					
and 11.....					
Washington County and Montgomery County					
(L. & C.), Crawfordsville.					
Onychocrinus parvus M. & G.....					
Shoals, Martin County (Miller & Gurley).					
*Onychocrinus ramulosus L. & C., 16 and 11.....					
Crawfordsville.					
Onychocrinus ulrichi Miller & Gurley, 16.....					
Crawfordsville (Miller & Gurley).					
Onychocrinus whitfieldi Hall, 8.....					
Harrison County.					
Palauster crawfordsvillensis Miller.....					
Crawfordsville (Miller).					
Palauster speciosa M. & D.....	x				
Richmond (James).					
Palauster wykoffi M. & G.....	x				
Madison (Miller & Gurley).					
*Pentremites burlingtonensis M. & W., 8.....					
Harrison County, Hindustan, Monroe County					
*Pentremites calycinus Lyon.....					
Orange County.					
*Pentremites cerrinus Hall.....					
Orange County.					
*Pentremites cherokeeus Troost.....					
Orange County.					
*Pentremites conoides Hall, 12 and 10.....					
Owen County, Montgomery County, Harrison					
County, Washington County, Greencastle,					
Spergen Hill, Bloomington, Jackson Co.					
Pentremites globosus Say, 8.....					
Harrison County.					
*Pentremites godoni DeFrance, 8 and 10.....					
Reelsville, Putnam County, Harrison Coun-					
ty, Owen County, Clay County, Orange					
County, Dubois, Crawford?					
Pentremites grosvenori Shumard.....					
see Troostocrinus grosvenori.					
*Pentremites koninckianus Hall, 12.....					
Monroe County, Greencastle, Spergen Hill,					
Bloomington, Washington County and					
Harrison County (Hall).					

US.	Mansfield.	Coal Measures.	Drift.	QUATER- NARY.		ORDOVICIAN.	SILU- RIAN.	DEVON- IAN.	CARBONIFEROUS.	QUATER- NARY.
						Cincinnati	Clinton. Niagara and Water Lime.	Corbitious and Hamilton. New Albany shale.	Knoxstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield.	
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	ORDOVICIAN.		SILURIAN.	DEVONIAN.	CARBONIFEROUS.						QUATERNARY.	
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.
<i>Poteroicrinus subaequalis</i> W. & S., 16..... Crawfordsville.							x					
<i>Poteroicrinus subramosus</i> Miller, 16..... Crawfordsville.							x					
<i>Poteroicrinus unicus</i> H., 16..... Crawfordsville.							x					
<i>Poteroicrinus versus</i> Miller, 16..... Crawfordsville.							x					
<i>Protaster grandiferus</i> Meek..... Moore's Hill (Meek).	x											
<i>Protaster gregarius</i> M. & W., 16..... Crawfordsville.							x					
<i>Rhodoicrinus benedicti</i> Miller, 18..... Harrison County.							x					
<i>Rhodoicrinus (Lyriocrinus) melissa</i> Hall..... see Lyriocrinus melissa.												
<i>Subutoicrinus swallowi</i> Hall, 8..... Harrison County.						x						
<i>Saccocrinus benedicti</i> Miller, 18..... St. Paul.			x									
* <i>Saccocrinus christyi</i> Hall, 11..... Utica, Clark County, Waldron (Jas. Hall).			x									
<i>Saccocrinus corbyi</i> Miller, 17..... DeCATUR county.			x									
<i>Saccocrinus howardi</i> Miller, 18..... St. Paul.			x									
<i>Saccocrinus umbrosus</i> M. & G..... St. Paul (Miller & Gurley).			x									
* <i>Scaphiocrinus aequalis</i> Hall, 8..... Crawfordsville and Harrison County.							x					
<i>Scaphiocrinus arvensis</i> M. & G..... Washington County (Miller & Gurley).							x					
<i>Scaphiocrinus bellus</i> Miller, 16..... Bono.							x					
<i>Scaphiocrinus bouensis</i> Miller, 16..... Bono.							x					
* <i>Scaphiocrinus coreyi</i> Crawfordsville (Meek & Worthen).							x					
* <i>Scaphiocrinus decadaetylus</i> Meek & Worthen, 8. Harrison County.							x					
* <i>Scaphiocrinus depressus</i> M. & W..... Crawfordsville (Meek & Worthen).							x					
<i>Scaphiocrinus disparilis</i> Miller, 16..... Crawfordsville.							x					
<i>Scaphiocrinus equalis</i> Hall..... Crawfordsville (Meek & Worthen).							x					
* <i>Scaphiocrinus gibbosus</i> White, 10..... Bono, Lawrence County, Crawfordsville.							x					
* <i>Scaphiocrinus gurleyi</i> White, 10..... Crawfordsville (C. A. White).							x					
<i>Scaphiocrinus grandiferus</i> Miller, 16..... Crawfordsville.							x					
<i>Scaphiocrinus graphicus</i> Millor, 16..... Crawfordsville.							x					
<i>Scaphiocrinus lacunosus</i> Miller, 16..... Bono.							x					
<i>Scaphiocrinus lyoni</i> Miller..... Montgomery County.							x					
<i>Scaphiocrinus maniformis</i> Miller, 18..... Washington County.							x					
<i>Scaphiocrinus manus</i> (Miller & Gurley) 16..... Crawfordsville (Miller & Gurley).							x					
<i>Scaphiocrinus martinensis</i> M. & G..... Shoals, Martin County (Miller & Gurley).									x			

[illegible]

[illegible]

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.						QUATERNARY.		
	Cincinnati.	Clinton	Niagara and Water Lime.	Corriferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.
<i>Callopora esul</i> Hall, 11			×									
Waldron (Jas. Hall).			×									
<i>Callopora singularis</i> Hall, 11			×									
Waldron (Jas. Hall).			×									
<i>Ceramopora apellus</i> Hall, 11			×									
Waldron.			×									
<i>Ceramopora conflens</i> Hall, 11			×									
Waldron.			×									
<i>Ceramopora ? (Lichenalia) explanata</i> H. 11			×									
Waldron.			×									
<i>Ceramopora tabicula</i> Hall, 11			×									
Waldron.			×									
<i>Ceramopora (Palaechara?) nothus</i> H., 11			×									
Waldron.			×									
<i>Ceramopora curipora</i> Hall, 11			×									
Waldron.			×									
<i>Clathropora frondosa</i> Hall		×										
Osgood, Hanover (Foerste).												
<i>Cleodictya gloriosa</i> Hall, 16							×					
Crawfordsville.												
<i>Cleodictya? mohri</i> Hall, 16							×					
Crawfordsville.												
<i>Clonopora semireducta</i> Hall			×									
Falls of the Ohio (Ulrich).												
<i>Coscinitrypa eribriformis</i> var. <i>carinata</i> Hall				×								
Falls of the Ohio (Hall).												
* <i>Coscinitium asterium</i> Prout, 8							×	×				
Harrison County and Washington County.												
<i>Coscinitium elegans</i> Prout., 8							×	×				
Washington County and Harrison County.												
<i>Coscinitium eschurense</i> Prout., 8								×				
Spargen Hill (R. P. Whitfield).												
* <i>Coscinitium eschurenoides</i> Prout., 8							×	×				
Harrison County, Edwardsville and Washington County.												
<i>Coscinitium keplerlingi</i> Prout., 15								×				
Washington County.												
* <i>Coscinitium nichelina</i> Prout., 8							×	×				
Harrison County and Monroe County.												
<i>Coscinitium tuberculatum</i> Prout., 8								×				
Harrison County.												
* <i>Coscinitium wortheni</i> Prout., 8							×	×				
Harrison County and Monroe County.												
* <i>Cycolopora discoides</i> Prout.								×				
Lanesville.												
<i>Cycolopora polymorpha</i> Prout., 8									×			
Harrison County.												
<i>Cycolopora pectinata</i> Hall				×								
Falls of the Ohio (Hall).												
<i>Dictyophyton catilliforme</i> Whitf.												
see <i>Phrogmodictya catilliforme</i> .												
<i>Dictyophyton cylindricum</i> Whitf., 16							×					
Crawfordsville (Whitfield).												
<i>Discotrypa devonien</i> Ulrich				×								
Falls of the Ohio (Ulrich)												
<i>Etenodictum eccentrica</i> Hall, 16							×					
Crawfordsville.												
<i>Eridopora minima</i> Ulrich				×								
Falls of the Ohio (Ulrich).												
<i>Escharopora (Ptilodictya) angusta</i> Hall, 11			×									
Waldron.												
<i>Eractinopora grandis</i> M. & W., 8							×					
Harrison County.												

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coriferous and Hamilton. New Albany Shale.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Eruetipora serradiata</i> M. & W., 8. Harrison County.				×	
<i>Fenestella (Unitrypa) acanthis</i> Hall. see <i>Unyeriypa acanthis</i> .					
<i>Fenestella (Unitrypa) acanthis</i> var. <i>inclinis</i> H. Falls of the Ohio.			×		
<i>Fenestella (Polypora) aculeata</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella (Polypora) adnata</i> Hall. see <i>Polypora adnata</i> .					
<i>Fenestella acma</i> Hall, H. Waldron (James Hall).		×			
<i>Fenestella ambigua</i> Hall, H. see <i>Loculipora ambigua</i> .					
<i>Fenestella bellistriata</i> Hall, H. Waldron.		×			
<i>Fenestella bifurca</i> Ulrich. Falls of the Ohio (A. E. Ulrich).			×		
<i>Fenestella bigeneria</i> Ulrich. Falls of the Ohio (A. E. Ulrich).			×		
<i>Fenestella bimbricata</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella biserrulata</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella (Polypora) celsipora</i> var. <i>minima</i> Hall. see <i>Polypora celsipora</i> var. <i>minima</i> .					
<i>Fenestella conferta</i> Hall, H. Waldron.		×			
<i>Fenestella confertipora</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella (Unitrypa) cirrosa</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella (Polypora) cuneolata</i> Hall. see <i>Polypora cuneolata</i> .					
<i>Fenestella cultrata</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella curvijnunctura</i> Hall. Falls of the Ohio (Hall).			×		
* <i>Fenestella delicata</i> Meek. Edwardsville.				×	
<i>Fenestella depressa</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella equalis</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella (Unitrypa) fastigata</i> Hall. see <i>Unitrypa fastigata</i> .					
<i>Fenestella hemitrypa</i> Prout. Spargen Hill (R. P. Whitfield).				×	
<i>Fenestella interrupta</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella (Polypora) laevistriata</i> Hall. see <i>Polypora laevistriata</i> .					
<i>Fenestella (Polypora) laevinodeata</i> Hall. see <i>Polypora laevinodata</i> .					
<i>Fenestella latijnunctura</i> Hall. Falls of the Ohio (Hall).			×		
<i>Fenestella lunulata</i> Hall. Falls of the Ohio (Hall).			×		
* <i>Fenestella parvulipora</i> Hall, H. Wabash County and Waldron (James Hall).		×			
<i>Fenestella patellifera</i> Ulrich. Falls of the Ohio (A. E. Ulrich).			×		
<i>Fenestella perplexa</i> Hall. Falls of the Ohio (Hall).			×		

	Cincinnati.	Oreovician.	Silurian. Clinton. Niagara and Water Lime.	Devonian. Carniferous and Hamilton. New Albany Shale. Krochene and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Carboniferous.	Quaternary. Drift.
<i>Fenestella permarginata</i> Hall.....				X		
Falls of the Ohio (Hall).				X		
<i>Fenestella pertensis</i> Hall, H.....						
Falls of the Ohio.						
<i>Fenestella plumosa</i> Prout.....						
see <i>Hemityrpa plumosa</i> .						
<i>Fenestella (Unitrypa) projecta</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella prolifica</i> Hall, H.....			X			
Waldron.						
<i>Fenestella prisca</i>						
Madison.		X				
<i>Fenestella pulchella</i> Ulrich.....				X		
Falls of the Ohio (A. E. Ulrich).						
<i>Fenestella punctostriata</i> Hall, H.....			X			
Waldron (James Hall).						
<i>Fenestella (Polypora) quadrangularis</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella sculptilis</i> Ulrich.....				X		
Falls of the Ohio (A. E. Ulrich).						
<i>Fenestella semitruanda</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella serrata</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella shumardi</i> Prout., S.....					X X	
Harrison County.						
<i>Fenestella singularifera</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella stellata</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella (Unitrypa) stipata</i> Hall.....						
see <i>Unitrypa stipata</i> .						
<i>Fenestella (Polypora) striatopora</i> Hall.....						
see <i>P. apyrea striatopora</i> .						
<i>Fenestella (Polypora) subnutans</i> Hall.....						
see <i>Polypora subnutans</i> .						
<i>Fenestella tentula</i> Hall, H.....			X			
Waldron (Jas. Hall).						
<i>Fenestella (Unitrypa) tegulata</i> Hall.....						
see <i>Unitrypa tegulata</i> .						
<i>Fenestella tenella</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella (Unitrypa) transversa</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella variopora</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fenestella verrucosa</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Fistulipora halli</i> Rominger.....			X			
Waldron (C. Rominger).						
<i>Fistulipora neglecta</i> Rominger.....						
see <i>Lichenalia concentrica</i> .						
<i>Fistulipora normalis</i> Ulrich.....					X	
Falls of the Ohio (Ulrich).						
<i>Fistulipora spargensis</i> Rominger.....					X	
Spargen Hill (Rominger).						
<i>Miliorbella canadensis</i> Hall.....				X		
Falls of the Ohio (Hall).						
<i>Hemityrpa plumosa</i> Prout., S.....					X	
(<i>Fenestella plumosa</i>) Washington County.						
<i>Idiotrypa parvaticula</i> Ulrich.....					X	
Osgood (Ulrich).						
<i>Labrella montifera</i> Ulrich.....	X					
Madison (James).						

Drift.	QUATER-NARY.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.							QUATER-NARY.							
					Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.		Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.			

	ORDOVICIAN.		SILURIAN.		DEVONIAN.		CARBONIFEROUS.						QUATERNARY.
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hur. Iron.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.	
<i>Trematella annulata</i> (<i>Trematopora</i> ("Trematella") <i>annulata</i>)				×									
Falls of the Ohio (Hall).....													
<i>Trematopora</i> (<i>Trematella</i>) <i>annulata</i> Hall.....													
see <i>Trematella annulata</i>													
<i>Trematopora</i> (<i>Trematella</i>) <i>orborea</i> Hall.....				×									
Falls of the Ohio (Hall).....													
<i>Trematopora</i> (<i>Chaetetes</i>) <i>crebripora</i> Hall, II.....			×										
Waldron.....													
<i>Trematopora echinata</i> Hall, II.....			×										
Waldron (James Hall).....													
<i>Trematopora spiculata</i> Hall, II.....			×										
Waldron (James Hall).....													
<i>Trematopora p. sulifera</i> Hall, II.....			×										
Waldron and Wabash County (James Hall).....													
<i>Trematopora halli</i> Ulrich.....			×										
Waldron (Ulrich).....													
<i>Trematopora hirsuta</i> Hall.....				×									
Clark County.....													
<i>Trematopora infrequens</i> Hall, II.....			×										
Waldron (James Hall).....													
<i>Trematopora minuta</i> Hall, II.....			×										
Waldron (James Hall).....													
<i>Trematopora osculum</i> Hall, II.....			×										
Waldron (James Hall).....													
<i>Trematopora</i> (<i>Orthopora</i>) <i>regularis</i> Hall.....				×									
Falls of the Ohio (Hall).....													
<i>Trematopora</i> (<i>Orthopora</i>) <i>rhombifera</i> Hall.....													
see <i>Orthopora rhombifera</i>													
<i>Trematopora spiculata</i> Hall.....			×										
Waldron (James Hall).....													
<i>Trematopora varia</i> Hall, II.....			×										
Waldron and Wabash County (James Hall).....													
<i>Trematopora</i> (?) (<i>Trachypora</i> ?) <i>macropora</i> H., II.....			×										
Waldron.....													
<i>Trematopora variolata</i> Hall, II.....			×										
Waldron (James Hall).....													
<i>Trematopora whitfieldi</i> Ulrich.....			×										
Waldron (Ulrich).....													
<i>Unytrypa acanthis</i> (<i>Fenestella</i> (<i>Unytrypa</i>) <i>acanthis</i>).....				×									
Falls of the Ohio (Hall).....													
<i>Unytrypa conferta</i> Ulrich.....				×									
Falls of the Ohio (A. E. Ulrich).....													
<i>Unytrypa fastigata</i> Hall (<i>Fenestella</i> (<i>Unytrypa</i>) <i>fastigata</i>).....				×									
Falls of the Ohio (Hall).....													
<i>Unytrypa retrusa</i> Ulrich.....				×									
Falls of the Ohio (A. E. Ulrich).....													
<i>Unytrypa stipata</i> Hall (<i>Fenestella</i> (U.) <i>stipata</i>).....				×									
Falls of the Ohio (Hall).....													
<i>Unytrypa tegulata</i> Hall (<i>Fenestella</i> (U.) <i>tegulata</i>).....				×									
Falls of the Ohio (Hall).....													
<i>Uphantzenia dawsoni</i> Whitf.....													
see <i>Physiospongia dawsoni</i>													
†BRACHIOPODA.													
<i>Ambocelia umbonata</i> Conrad, II.....				×									
Shelby County.....													
<i>Anastrophia internascens</i> Hall, II.....			×										
Waldron (James Hall).....													
* <i>Anastrophia recurvata</i> Hall.....			×										
Waldron.....													

†The author regrets that he has been unable to adopt in the present list the revised nomenclature of the *Brachiozoa* used by Mr. Schuchert in Bull. 37 U. S. G. S., owing to the appearance of that work after the present paper was in the hands of the printer.

	Cincinnati.	Ondovician	Silurian. Clinton. Niagara and Water Lime.	Devonian. Corniferous and Hamilton. New Albany Shale.	Carboniferous. Krookstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Quaternary. Drift.
<i>Athyris umbigata</i> Sowerby, 8 and 10.....					x	
Orange County, Owen County, Putnam County, Montgomery County.					x	
<i>Athyris densa</i> H. & C.....					x	
Washington County (Hall & Clark).					x	
* <i>Athyris hirsuta</i> Hall, 12.....					x	
Greencastle, Washington County, Bloom- ington, Harrison and Monroe County.					x	
<i>Athyris incrassata</i> Hall, 8.....					x	
Harrison County.					x	
* <i>Athyris lamellosa</i> L'Eveillé, 8.....					x	
Harrison County, Washington County, Greencastle and Monroe County, Craw- fordsville (Hall & Clark).					x	
<i>Athyris planuleolata</i> Phillips, 8.....					x	
Warren County.					x	
<i>Athyris rogersi</i> Leveillé, 8.....					x	
Harrison County, Crawfordsville and Or- ange County.					x	
* <i>Athyris subquadrata</i> Hall, 8.....					x	
Harrison County.					x	
* <i>Athyris spiciferoides</i> Eaton.....			x	x		
Utica, Clark County and Charlestown.						
* <i>Athyris sublanceolata</i> Hall, 8.....					x	
Greencastle, Harrison County, Reelsville and Putnam County.					x	
* <i>Athyris subtilita</i> Hall, 13.....					x	
Vanderburgh County, Harrison County, Orange County, Owen County, Montgom- ery County, Clay County (C. A. White).					x	
* <i>Athyris trinuclea</i> Hall (<i>Terebratulina trinuclea</i>), 12.....					x	
Greencastle, Spargen Hill, Monroe County, Harrison County, Washington County, Bloomington (Hall).					x	
<i>Athyris vittata</i> Hall, 11.....				x		
Falls of the Ohio. Charlestown Ldg. (Nett- leroth).				x		
* <i>Atrypa aspera</i> Schlottheim.....			x	x		
Falls of the Ohio, Charlestown, Clark County (Nettleroth).						
<i>Atrypa cuspidata</i>						
see <i>Trinlesia cuspidata</i> .						
<i>Atrypa ellipsoidea</i> Nettleroth.....				x		
Falls of the Ohio (Nettleroth).						
<i>Atrypa marginalis</i> Dalman.....			x			
Hanover (Foerste).						
<i>Atrypa marginalis</i> var. <i>multi-striata</i> Foerste....			x			
Hanover (Foerste).						
* <i>Atrypa reticularis</i> Linn., 11.....			x	x	x	
Henry County, Utica, Clark County, Mad- ison, Falls of the Ohio, Wabash County, Charlestown, Carroll County, Waldron (Hall).						
<i>Atrypa lataecurcata</i> Foerste.....			x			
Ripley County (Foerste).						
<i>Atrypa reticularis</i> var. <i>niagarensis</i> Nettleroth...			x			
Clark County (Nettleroth).						
* <i>Gemmarophoria subtriangula</i> Meek & Worthen....					x	
Harrison County and Crawfordsville.						
<i>Gemmarospira euehris</i> Hall.....				x		
Clas County (Hall & Clark).						
<i>Gemmatracia carolina</i> Hall.....				x		
Falls of the Ohio (Hall & Clark).						

[illegible]

	ORDOVICIAN.		SILURIAN.		DEVONIAN.		CARBONIFEROUS.						QUATERNARY.
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.	
<i>Meekella striatocostata</i> Cox, 13.													
Vigo Co. unty.													
* <i>Meristella harknessi</i> Hall ...					×								
Chautauq. w.													
* <i>Meristella nasuta</i> Hall.					×								
Falls of the Ohio (Nettleroth).													
<i>Meristella rectirostrata</i> Hall, 11			×										
Waldron													
<i>Meristella umbonata?</i> Billings.		×											
Hanover (Foerste).													
* <i>Meristella unisulcata</i> Conrad.			×										
Utica, Clark County and Falls of the Ohio (Nettleroth).													
<i>Meristina maria</i> Hall, 11			×										
Waldron (James Hall) (Nettleroth).													
* <i>Meristina nitida</i> Hall, 1			×										
Waldron and Wabash County (James Hall).													
<i>Nucleospira concinna</i> Hall.			×										
Utica, Clark County and Falls of the Ohio (Nettleroth).													
<i>Nucleospira indianensis</i> Miller, 17.				×									
Bunker Hill.													
* <i>Nucleospira piniiformis</i> Hall, 11			×										
Waldron (James Hall).													
* <i>Orthis (Platystrophia) acutilirata</i> Conr., 10	×												
Richmond, Madison, and Clarksville (Miller & White).													
<i>Orthis benedicti</i> Miller, 17			×										
Wabash County and Hartsville).													
<i>Orthis bifurcata</i> Schlotheim		×	×										
Hanover, Madison and Osgood (Foerste).													
* <i>Orthis biloba</i> Linn., 11			×										
Wabash County.													
* <i>Orthis borealis</i> Billings.	×												
Madison.													
<i>Orthis calligramma</i> Dalman.			×										
Hanover (Foerste).													
<i>Orthis (Orthis dinorthis) calligramma</i> Dalman			×										
Hanover (Foerste).													
* <i>Orthis centrosa</i> Miller	×												
Madison.													
* <i>Orthis dentata</i> Pander	×												
Madison and Ripley County.													
* <i>Orthis dubia</i> Hall, 12							×	×					
Harrison County, Spengen Hill, Bloomington, Greensburg, and Washington County (Hall)													
* <i>Orthis ella</i> Hall.	×												
Madison.													
* <i>Orthis elegantula</i> Dalman, 11		×	×										
Waldron (James Hall), Hanover (Foerste), Wabash County.													
* <i>Orthis emacerata</i> Hall	×												
Madison and Franklin County (Moore).													
<i>Orthis emacerata</i> var. <i>multisepta</i> , 6.	×												
Madison.													
* <i>Orthis fusicauda</i> Hall.	×												
Madison and Lawrenceburg (Miller).													
<i>Orthis goodrichi</i> Nettleroth.				×									
Falls of the Ohio (Nettleroth).													
* <i>Orthis hybrida</i> Sowerby, 11			×										
Waldron (James Hall).													
<i>Orthis insculpta</i> Hall, 6.	×												
Madison, Franklin County (Moore).													

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Cincinnati. Niagara and Water Lime.	Corriferous and Hamilton.	New Albany Shale. Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Orthis iowensis</i> Hall, 10..... Charlestown.			X		
* <i>Orthis keokuk</i> Hall (O. umbraculum). Jackson County, Smithville and Spergen Hill (Hall).				X X	
* <i>Orthis laticosta</i> Meek..... Madison.	X				
* <i>Orthis leucostea</i> Hall Charlestown.			X		
* <i>Orthis livia</i> Billings..... Utica, Clark County (Nettleroth).			X		
* <i>Orthis lynx</i> Eichwald..... Ripley County, Madison and Franklin County.	X				
<i>Orthis michelina</i> L'Eveille, 8..... Washington County, Harrison County, Scott County (Borden).				X X	
<i>Orthis oceanica</i> Hall..... Rockford (James Hall).			X		
<i>Orthis occidentalis</i> Hall, 10..... Richmond, Madison, Ripley, Madison and Franklin County (Moore).	X				
<i>Orthis pecora</i> Marcou, 13..... Vernilion County (C. A. White).					X
<i>Orthis penelope</i> Hall..... Scott County (Borden).				X	
<i>Orthis plicata</i> var. <i>vancouveri</i> see Spirifer vancouveri.					
* <i>Orthis plicatella</i> Hall..... Madison.	X				
* <i>Orthis reclinata</i> Martin..... Montgomery County.				X	
* <i>Orthis retrossa</i> Salter?..... Madison (Meek).	X				
<i>Orthis subnodosa</i> Hall, 11..... Waldron (Hall).		X			
* <i>Orthis sinuata</i> Hall..... Ripley County, Madison, Versailles and Weisberg.	X				
* <i>Orthis subquadrata</i> Hall, 10..... Richmond, Versailles and Madison (Miller), Franklin County (Moore), Richmond and Madison (Meek).	X				
* <i>Orthis testudinaria</i> Dalman..... Newton County and Ripley County.	X	X?			
* <i>Orthis tricrenaria</i> Conr..... Madison.	X				
<i>Orthis umbraculum</i> DeKoninck..... see <i>Orthis keokuk</i> .			X		
<i>Orthis vancouveri</i> Hall..... Clark County (Hall).			X		
<i>Pentamerella arata</i> Hall..... Clark County, Falls of the Ohio (Hall).			X		
<i>Pentamerella papilionensis</i> Hall..... Falls of the Ohio (Nettleroth).			X		
<i>Pentamerella thurstoni</i> Ida Nettleroth..... Falls of the Ohio (Nettleroth).			X		
<i>Pentamerus aratus</i> see <i>Pentamerella aratus</i> Conrad.					
<i>Pentamerus chicagocensis</i> Winch. & Marcy..... Carroll County.		X			
<i>Pentamerus colleti</i> Miller, 17..... Kokomo.		X			

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.					QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coriferous and Hamilton. New Albany Shale.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis.	Kaskaskia.	Mansfield	Coal Measures	Drift.	
<i>Pentamerus fornicatus</i> var., Hall, 11 Waldron.		×							
* <i>Pentamerus galeatus</i> Dalman Huntington		×							
* <i>Pentamerus knighti</i> Sowerby. Carroll County and Clark County. (Nettle- roth).		×	×						
<i>Pentamerus l. quatus</i> Conr. * Del hi (Conrad).		×							
<i>Pentamerus nystus</i> Hall, 11 Charleston and Huntington.		×							
* <i>Pentamerus oblongus</i> Sowerby, 11. Huntington and Jefferson Counties and Del- aware county.		×							
<i>Pentamerus occidentalis</i> Hall. Carroll County.		×							
* <i>Pentamerus ventricosus</i> Hall. Madison.		×							
<i>Pholidops calceola</i> Hall & Clark, 11. Falls of the Ohio (Clark & Hall).		×							
<i>Pholidops oralis</i> Hall, 11. Waldron (James Hall).		×							
<i>Productella semiglobosa</i> Nettleroth. Falls of the Ohio (Nettleroth).			×						
* <i>Productella spinulicosta</i> Hall (<i>Productus spinu- licostus</i> a), 11. Charlestown and Shelby County.			×						
* <i>Productella subulata</i> Hall. Falls of the Ohio.			×						
<i>Productella subaculeata</i> Hall Jeffersonville (Hall).		×	×						
<i>Productella subaculeata</i> var. <i>cataraeta</i> H. & W. Utica, Clark County (Nettleroth).		×							
* <i>Productus gericostatus</i> Shumard. Iubois County.							×		
<i>Productus alternatus</i> Norwood & Pratt, 8. Harrison County and Crawfordsville.				×					
<i>Productus altonensis</i> N. & P., 8. Harrison County.					×	×			
* <i>Productus biserialis</i> Hall, 12. Washington County, Bloomington and Tip- pecanoe County.					×				
<i>Productus buchianus</i> de Koninek. Posey County (Norwood & Pratt).							×		
<i>Productus burlingtonensis</i> M. & W. Harrison county.				×					
* <i>Productus castrensis</i> Worthen.					✓				
<i>Productus cora</i> d'Orbigny, 8. Owen County, Reelsville, Putnam County, Crawfordsville, Clay County, Orange Coun- ty, Greencastle, Vanderburgh County, Montgomery County, Monroe County, Har- rison County, Quincy, Jackson County.				×	×				
* <i>Productus cora</i> var. <i>mogoyoni</i> Marcon Svergen Hill.					✓				
* <i>Productus costatus</i> Sowerby, 13 and 10. Throughout the coal measures.							×		
<i>Productus fimbriatus</i> Sowerby. Posey County (Norwood & Pratt.)							×		
<i>Productus Flemingi</i> Sowerby. Leavenworth (Norwood & Pratt.) and Harri- son County.				✓		×			

[illegible]

	Cincinnati.	ORDOVICIAN.	Silurian.	Devonian.	Carboniferous.	Quaternary.
* <i>Rhynchonella ventricosa</i> Hall Madison.	X					
* <i>Rhynchonella whitii</i> Hall, 11. Walton (James Hall).			X			
<i>Rhynchonella wortheni</i> Hall, 15. Washington County					X	
* <i>Rhynchonotreta cuneata</i> var. <i>americana</i> Hall, 11. (<i>Rhynchonella cuneata</i> var. <i>americana</i>). (James Hall).			X			
* <i>Schizocrania filosa</i> Hall..... Madison.	X					
* <i>Spirifer acuminatus</i> Conrad 10. Falls of the Ohio (Hall) Clark, Scott, Jefferson, Jennings and Jackson Counties (Kindle).			X			
* <i>Spirifer angusta</i> Hall, 11. Charlestown and Shelby County.				X		
* <i>Spirifer uretiementus</i> Hall..... Clark County. (Nettleroth).				X		
<i>Spirifer aspera</i> Hall, 8. Harrison County.					X	
<i>Spirifer attenuatus</i> Miller..... Falls of the Ohio (Nettleroth).				X		
<i>Spirifer carolinensis</i> Carroll County.						
<i>Spirifer bicostatus</i> ? var. <i>petila</i> Hall, 11. Waldron.			X			
* <i>Spirifer bifurcata</i> Hall, 12. Spergen Hill (Hall), Washington County.					X	
* <i>Spirifer biplicatus</i> Hall..... Morgan County.				X		
<i>Spirifer byrnesi</i> Nettleroth..... Clark County (Nettleroth).				X		
* <i>Spirifer emmerata</i> Morton, 13 and 10. Throughout the coal measures (C. A. White).						X
* <i>Spirifer carteri</i> Hall, 8. <i>see Syringothyris carteri</i> .					X X	
* <i>Spirifer consobrina</i> d'Orbigny. Falls of the Ohio.				X		
* <i>Spirifer crispus</i> Hisinger, 11. Waldron (James Hall), Wabash County.			X			
<i>Spirifer crispus</i> var. <i>simplex</i> Hall, 11. Waldron (James Hall).			X			
<i>Spirifer enapidatus</i> , ? Owen County.					X	
<i>Spirifer dawsoni</i> Nettleroth..... Falls of the Ohio (Nettleroth).				X		
* <i>Spirifer diarsicata</i> Hall..... Clark County and Bunker Hill (Nettleroth).				X		
<i>Spirifer duodecimaria</i> Hall..... Falls of the Ohio (Nettleroth).				X		
<i>Spirifer eudora</i> Hall, 11. Miami County, Waldron (James Hall).			X			
* <i>Spirifer euryteinus</i> Owen, 11. Falls of the Ohio (Hall), Charlestown (Net- tleroth).				X		
<i>Spirifer euryteinus</i> var. <i>fornaculus</i> Hall..... Falls of the Ohio (Nettleroth).				X		
<i>Spirifer fastigata</i> M. & W., 16. <i>see S. mortoni</i> .						
<i>Spirifer fimbriatus</i> Conrad..... Clark County (Nettleroth).				X		
* <i>Spirifer forbesi</i> N. & P..... Gosport.					X	

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coriferous and Hamilton. New Albany Shale.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Spirifer fultonensis</i> Worthen, 8.....					
Harrison county.					
<i>Spirifer glabrum</i> Martin, 15.....					
Washington County.					
* <i>Spirifer gregaria</i> Clapp, 10.....		X	X		
Falls of the Ohio (Hall), Scott County, Clark County.					
<i>Spirifer grieri</i> H. H.			X		
Falls of the Ohio (Nettleroth).					
<i>Spirifer grimesi</i> Hall, 8.....				X	
Washington County and Harrison County.					
<i>Spirifer hobbsi</i> Nettleroth.....			X		
Falls of the Ohio (Nettleroth).					
<i>Spirifer incranatus</i> , 7.....				X	
Montgomery County.					
<i>Spirifer inerebescens</i> Hall, 8.....					
Harrison County.				X	
<i>Spirifer kentuckensis</i> , 7.....				X	
Vanderburgh County and Owen County.					
* <i>Spirifer keokuk</i> Hall, 16.....				X	
Greencastle, Crawfordsville, Washington County, Harrison County, Quincy, Putnam County, Owen County, Scott County (Bor- den).				X	
<i>Spirifer lateralis</i> Hall, 8.....				X	
Greencastle, Washington County and Har- rison County.					
<i>Spirifer leidyi</i> N. & P., 8.....				X	
Spergen Hill (R. P. Whitfield), Quincy, Put- nam County, Harrison County, Owen County and Orange County.				X	
* <i>Spirifer lineata</i> Martin, 11 and 13.....				X	X
Throughout the coal measures (C. A. White), Montgomery County and Orange County.					
* <i>Spirifer logani</i> H. H.				X	
Crawfordsville.					
<i>Spirifer maceonathii</i> Nettleroth.....			X		
Falls of the Ohio (Nettleroth).					
<i>Spirifer manni</i> Hall.....			X		
Clark County.					
<i>Spirifer marionensis</i> Schumard, 8.....			X		
Harrison County (Collett), Falls of the Ohio (Nettleroth).					
<i>Spirifer medialis</i> Hall.....		X			
Falls of the Ohio, Clark County (Nettleroth).					
* <i>Spirifer mortoni</i> Miller (Sp. instigatus).....				X	
Crawfordsville and Harrison County (Meek & Worthen).					
* <i>Spirifer mucronata</i> Conrad?.....			X		
Clark County (Nettleroth).					
<i>Spirifer neglecta</i> Hall, 8.....				X	
Greencastle, Harrison County, Edwardsville, Owen County, Monroe County and Wash- ington County.					
<i>Spirifer niagarensis</i> Hall, 11.....		X			
Delaware County.					
<i>Spirifer norwoodiana</i> Hall, 15.....				X	
Spergen Hill (Hall), Washington County?					
* <i>Spirifer optimus</i> (Hall).....					X
see <i>S. rockymontana</i> . New Harmony (Mc- Chesney).					
* <i>Spirifer oweni</i> Hall, 11.....			X		
Falls of the Ohio (Hall) and Charlestown.					

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coniferous and Hamilton.	New Albany Shale. Knobs Stone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Spiriferina norwoodana</i> Hall, 12.....					
Spargen Hill.					
* <i>Spiriferina spinosa</i> Norwood and Pratton (<i>Spirifer spinosa</i>), 8.					
Bloomington (Hall), Spargen Hill (R. P. Whitfield), Harrison County.					
<i>Spirigera hirsuta</i>					
see <i>Athyris hirsuta</i> .					
<i>Stenochisma tethys</i> Billings* (<i>Rhynchonella tethys</i>).....			X		
Clark County and Falls of the Ohio.					
<i>Streptorhynchus chemungensis</i> var. <i>arctostrata</i> H. Falls of the Ohio (Nettleroth).					
<i>Streptorhynchus crenistriatus</i> Phillips, 8.....				X	
Spargen Hill (R. P. Whitfield), Harrison County, Park County, Greencastle, Washington County, Reelsville and Putnam County.				X	
<i>Streptorhynchus (Strophomena) elongatum</i> James. (James).	X				
<i>Streptorhynchus keokuk</i> Hall, 8.....				X	
Scott County (Borden), Harrison County.					
* <i>Streptorhynchus autans</i> Meek.....	X				
Madison.					
<i>Streptorhynchus planumbonum</i> Hall (<i>Strophomena planumbonum</i>).....	X				
Richmond (Meek), Madison (Hall).					
* <i>Streptorhynchus planiconvexum</i> Hall.....	X				
S. E. Indiana.					
<i>Streptorhynchus pectinaceum</i> H. New Albany (Hall).				X	
* <i>Streptorhynchus subtenens</i> Conrad (<i>Strophomena plicata</i>).....	X				
Richmond and Madison.					
<i>Streptorhynchus subplanum</i> Conrad, 11. Waldron (James Hall).		X			
<i>Streptorhynchus tenue</i> Hall, 11. Waldron (James Hall).		X			
* <i>Streptorhynchus umbraculum</i> Von Buch., 12. New Providence.				X	
<i>Streptorhynchus (Strophomena) vetustum</i> James. (James).	X				
<i>Strophodonta arcuata</i> Hall, 11. Shelby County.			X		
* <i>Strophodonta concava</i> Hall. Charlestown.			X		
<i>Strophodonta demissa</i> Conrad, 11. Charleston and Shelby County (Nettleroth).			X		
* <i>Strophodonta hemispherica</i> Hall. Falls of the Ohio (Hall), Clark County.		X	X		
* <i>Strophodonta inaequistriata</i> Conrad. Falls of the Ohio (Nettleroth).			X		
<i>Strophodonta nacreata</i> Hall. Falls of the Ohio (Nettleroth).			X		
<i>Strophodonta per plana</i> Conrad. Falls of the Ohio (Nettleroth).			X		
<i>Strophodonta plicata</i> Hall. Falls of the Ohio (Nettleroth).			X		
<i>Strophodonta profunda</i> Hall, 11 and 16. Waldron (James Hall), Allen County.		X			
* <i>Strophodonta semifasciata</i> Hall. Waldron.		X			
* <i>Strophodonta striata</i> Hall, 11. Waldron (James Hall).		X			

	Cincinnati.	Ordovician.	Silurian.	Devonian.	Carboniferous.						Quaternary.
	Clinton.	Niagara and Water Lime.	Coniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures	Drift
<i>Strophomena alternata</i> Conrad, 10	×										
S. E. Indiana.											
<i>Strophomena alternata</i> var. <i>alternistriata</i> Hall.	×										
Madison.											
<i>Strophomena filitexta</i>	×										
Madison.											
* <i>Strophomena fracta</i> Meek, 6.	×										
Madison.											
<i>Strophomena hanoverensis</i> Foerste.		×									
Hanover (Foerste).											
<i>Strophomena incurvata</i> (Shepard)	×										
Ripley County (Borden).											
* <i>Strophomena nevada</i> Conrad.	×										
Madison.											
<i>Strophomena nutans</i>											
see <i>Streptorhynchus nutans</i> .											
<i>Strophomena patula</i> Hall		×									
Hanover (Foerste).											
<i>Strophomena planoconvexa</i> Hall											
see <i>Streptorhynchus planoconvexum</i> .											
<i>Strophomena planumbona</i> Hall, 10											
see <i>Streptorhynchus planumbonum</i> .											
<i>Strophomena plicata</i>											
see <i>Streptorhynchus subtentum</i> .											
* <i>Strophomena rhomboidalis</i> Wilekens, 11.	×	×	×	×		×					
Madison (Meek). Waldron (James Hall),											
Hartselle, Franklin County, Jasper County,											
Wabash County, Clark County (Nettle-											
roth).											
<i>Strophomena rugosa</i> Dalman, 6		×	×								
Madison.											
<i>Strophomena striata</i>											
see <i>Strophodonta striata</i> .											
<i>Strophomena sulcata</i> de Verneuil	×										
Richmond (Meek), Madison.											
* <i>Strophomena tenuistriata</i> Sowerby.	×										
Richmond.											
<i>Strophomena tenuis</i> Hall		×									
Hanover (Foerste).											
<i>Strophonella semifasciata</i> Hall, 11.			×								
Waldron (James Hall).											
<i>Syntrielasma hemiplicata</i> Hall, 13.										×	
Coal Measures (C. A. White).											
<i>Syringothyris carteri</i> Hall, (?) 8					×						
(Sp. carteri) Monroe, Harrison and Clark											
Counties											
<i>Syringothyris texta</i> Hall, 8.											
Scott County (Borden), Borden and New											
Albany (Hall), Jackson County and Har-											
rison County											
* <i>Terebratula borealis</i> Morton, 13.							×	×		×	
Widely distributed throughout the Coal											
Measures (C. A. White), Greencastle, Or-											
ange County, Montgomery County, Van-											
dorburgh County, Harrison County, Parke											
County and Monroe County											
<i>Terebratula carlini</i> Hall and Whitfield, 8					×						
Harrison County											
* <i>Terebratula carmova</i> Hall, 12.							×				
Spergen Hill and Bloomington (Hall), Green-											
castle, Harrison County, Washington Coun-											
ty, Monroe County.											
<i>Terebratula gorbii</i> Miller, 17.					×						
Edwardsville.											

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton.	Hamilton.	Knobstone and Rockford Limestone.	Drift.
<i>Terebratula harmonia</i> H. Falls of the Ohio (Hall).			X		
* <i>Terebratula hastata</i> Sowerby, 8 Owen County, Greencastle and Harrison County.				X	
<i>Terebratula incornata</i> McChesney, 8. Harrison County.				X	
* <i>Terebratula juxta</i> Hall Falls of the Ohio (Nettleroth).			X		
* <i>Terebratula lincklaeni</i> Hall Falls of the Ohio (Nettleroth).			X		
<i>Terebratula romingeri</i> Hall Clark County (Nettleroth).			X		
<i>Terebratula neculus</i> Martin, 16 Crawfordville.				X	
<i>Ter. bratula subcuneata</i> see <i>Athyris triancula</i> .					
<i>Terebratula subtilita</i> Hall see <i>Athyris subtilita</i> .					
<i>Terebratula triancula</i> Hall Spergen Hill (Hall), Washington County, Owen County and Greencastle.				X	
* <i>Terebratula turpida</i> Hall, 12 Bloomington and Spergen Hill (Hall), Wash- ington County, Greencastle, Harrison and Monroe Counties.				X	
<i>Trematospira hispida</i> Hall Utica and Clark County and Falls of the Ohio.		X	X		
<i>Trematospira matthewsoni</i> McChesney Madison (McChesney).		X			
* <i>Trematospira nobilis</i> Hall Charlestown.			X		
<i>Triplexia cuspidata</i> Hall (<i>Atrypa cuspidata</i>), 6.. Madison.	X				
<i>Triplexia pusillus</i> Hall, 11 Waldron.		X			
* <i>Triplexia waldroneensis</i> M. & D. Waldron.		X			
* <i>Tropidoleptus carinatus</i> Conrad Scott County (Borden), Clark County (Net- tleroth).			X	X	
* <i>Whitfieldia maria</i> Hall Waldron.		X			
* <i>Zygospira headii</i> Billings Madison (W. S. T. Cornett), Madison (Meek)	X				
<i>Zygospira minima</i> Hall, 11 Waldron.		X			
* <i>Zygospira modesta</i> Say Madison (W. S. T. Cornett), Richmond and Madison (Meek), Franklin County (Moore)	X				
* <i>Zygospira modesta</i> var. <i>cincinnatiensis</i> James... Madison.	X				
MOLLUSCA.					
LAMELLIBRANCHIATA.					
<i>Actinopteria boydi</i> Conr. Falls of the Ohio (Nettleroth) (Hall).			X		
* <i>Allorisma cuneatum</i> Swallow Warren County.					X
* <i>Allorisma sinuatum</i> McChesney, 8. Harrison County.				X	

	ORDOVICIAN.		SILURIAN.		DEVONIAN.		CARBONIFEROUS.						QUATERNARY.
	Cincinnati.		Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	
<i>Ariculopecten spinuliferous</i> Worthen												X	
Crawfordsville (A. H. Worthen).													
<i>Ariculopecten winchelli</i> Meek, 8.								X					
Harrison County.													
<i>Avicula corrugata</i> James													
see <i>Pterinea corrugata</i> .													
<i>Avicula demissa</i> .													
see <i>Pterinea demissa</i> .													
<i>Avicula insueta</i> .													
see <i>Pterinea insueta</i> .													
<i>Bysonychia tenuistriata</i> Ulrich	X												
Richmond (Ulrich).													
<i>Cardiomorpha missouriensis</i> Shumard, 7												X	
Vanderburg County.													
<i>Cardiomorpha radiata</i> M. & W.													
see <i>Cardiopsis radiata</i> .													
<i>Cardiomorpha subglobosa</i> Meek							X						
Washington County.													
<i>Cardiola radians?</i>													
see <i>Panenska radians</i> .													
<i>Cardiopsis radiata</i> Meek & Worthen (<i>Cardiomorpha radiata</i>)							X						
Rockford (Meek & Worthen).													
<i>Chaenomya rhomboides?</i> M. & W., 7.									X				
Oranoo County.													
<i>Clidophorus fabula</i> Hall	X												
Versailles (Miller).													
<i>Clinopistha antiqua</i> Meek					X								
Clark County (Nettleroth).													
<i>Clinopistha radiata</i> Hall, 13.												X	
(C. A. White).													
<i>Clinopistha striata</i> Nettleroth					X								
Clark County (Nettleroth).													
<i>Clinopistha subnigrita</i> (H. & W.) Hall					X								
Louisville, Ky. (James Hall), Clark County (Nettleroth).													
<i>Clionychia exaranta</i> Ulrich	X												
Richmond (Ulrich).													
* <i>Conocardium attenuatum</i> Conrad				X									
Waldron.													
* <i>Conocardium carinatum</i> Hall, 12.									X				
Bloomington, Spargen Hill, Harrison and Washington Counties.													
<i>Conocardium catenatum</i> Hall, 12.									X				
Spargen Hill (Hall), Washington County.													
<i>Conocardium constrictum</i> Hall, 8.									X				
Harrison County.													
* <i>Conocardium cuneata</i> Hall, 12.									X				
Bloomington and Spargen Hill (Hall), Monroe and Washington Counties, Greencastle and Harrison County.													
† <i>Conocardium cuneus</i> Conrad													
Pendleton.													
<i>Conocardium elradi</i> Miller, 17.				X									
Hartsville.													
<i>Conocardium equilaterale</i> Hall, 12.									X				
Spargen Hill (Hall), Washington County.													
<i>Conocardium exiguum</i> Miller, 17.					X								
Bunker Hill.													
<i>Conocardium indianense</i> Miller, 17.								X					
Crawfordsville.									X				
<i>Conocardium meekianum</i> Hall, 12.													
Washington County.													

† Schoharic-grit (James Hall).

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coronerous and Hamilton.	New Albany Shale. Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Goniophora plicata</i> Hall (Cypriocardella plicata), 12.....				x	
Bloomington (Hall).					
<i>Goniophora speciosa</i> Hall, 11.....		x			
Waldron.					
<i>Goniophora truncata</i> Hall.....			x		
Falls of the Ohio (Nettleroth).					
<i>Grammysia arcuata</i> (Con.) H.....			x		
Falls of the Ohio (James Hall).					
<i>Grammysia gibbosa</i> H. & W.....			x		
Falls of the Ohio (Nettleroth).					
<i>Grammysia rhomboidalis</i> M. & W.....				x	
Washington County.					
<i>Grammysia ventricosa</i> Meek.....				x	
Washington County.					
<i>Ischyrodonta decipiens</i>	x				
Richmond (Ulrich).					
<i>Ischyrodonta elongata</i> Ulrich.....	x				
Richmond (Ulrich).					
<i>Ischyrodonta miscneri</i> Ulrich.....	x				
Richmond (Ulrich).					
<i>Ischyrodonta modioliformis</i> Ulrich.....	x				
Richmond (Ulrich).					
<i>Ischyrodonta ovalis</i> Ulrich.....	x				
Richmond (Ulrich).					
<i>Leda bellistriata</i>					
see Nuculana bellistriata.					
<i>Leda usuta</i> Hall, 12.....				x	
Spergen Hill and Lanesville.					
<i>Lima retifera</i> Shumard, 13.....					
see Crenipeeten retiferus.					
<i>Limoptera cuneolata</i> Hall.....		x			
Falls of the Ohio (James Hall).					
* <i>Lithophaga linguatilis</i> Phillips, 16.....				x	
rawfordsville and Harrison County.					
<i>Lithophaga pertenuis</i> M. & W.....				x	
Lanesville.					
<i>Lunaticardia fragile</i> Hall.....			x		
Scott County (James Hall).					
<i>Mucronodon obsoletus</i> Meek.....				x	
Spergen Hill (R. P. Whitfield).					
<i>Megasteria eowi</i> M. & W., 10.....	x				
Richmond.					
<i>Megranthis lani</i>				x	
Rockford (James Hall).					
<i>Modiolodon dentatus</i> Ulrich.....	x				
Richmond (Ulrich).					
<i>Modiolodon sulcatus</i> Ulrich.....	x				
Richmond (Ulrich).					
<i>Modiolodon subopalia</i> Ulrich.....	x				
Vernilles (Ulrich).					
<i>Modiolodon truncatus</i> Hall.....	x				
Vernilles (Ulrich).					
* <i>Modiolopsis cincinnatiensis</i> H. & W.....	x				
Richmond.					
<i>Modiolopsis concentrica</i> Hall & White.....	x				
(Ulrich).					
* <i>Modiolopsis modiolaria</i>	x				
Madison and Richmond.					
* <i>Modiolopsis perlata</i> Hall, 11.....		x			
Waldron (James Hall).					
* <i>Modiolopsis photostictica</i> Hall.....	x				
Richmond (Miller).					

	ORDOVICIAN.		SILURIAN.	DEVONIAN.	CARBONIFEROUS.						QUATERNARY.	
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.
<i>Modiolopsis subulata</i> Hall, 11 Waldron (James Hall).			×									
<i>Modiolopsis varuillesensis</i> Miller Versailles (Miller).	×											
<i>Modiomorpha affinis</i> Hall. Clark County (James Hall).				×								
<i>Modiomorpha alta</i> Hall. Falls of the Ohio and Charlestown (James Hall).				×								
<i>Modiomorpha charlestownensis</i> Nettleroth. Clark County (Nettleroth).				×								
<i>Modiomorpha concentrica</i> Hall. Falls of the Ohio and Charlestown (James Hall).				×								
<i>Modiomorpha mytiloides</i> Conr. Clark County (Nettleroth).				×								
<i>Modiomorpha recta</i> Hall. Clark County (James Hall).				×								
<i>Monopteria longispina</i> Cox. Dubois County.											×	
<i>Monopteria gibbosa</i> M. & W., 13. Vermillion, Sullivan and Posey Counties (C. A. White).											×	
<i>Monotis</i> (?) <i>gregaria</i> M. & W. Crawfordsville (Meek & Worthen).							×					
<i>Myalina concentrica</i> M. & W. Spargen Hill (Meek & Worthen).								×				
* <i>Myalina keokuk</i> Worthen, 8. Harrison and Washington Counties and Crawfordsville.						×	×	×				
<i>Myalina subquadrata</i> Shumard, 13. Knox, Gibson and Posey Counties (C. A. White).											×	
* <i>Myalina scallori</i> McChesney, 13. Park, Vermillion and Vigo Counties (C. A. White), Dubois County.											×	
<i>Mytilarca sigilla</i> Hall, 11. Wal Iron (James Hall).			×									
<i>Nucula hyans</i> Hall. Rockford (James Hall).					×							
<i>Nucula inflata</i> , 7. Vanderburgh County.											×	
<i>Nucula lirata</i> Conrad, 11. Shelby County.				×								
<i>Nucula neda</i> H. & W. Louisville, Ky. (James Hall), Falls of the Ohio (Nettleroth).				×								
* <i>Nucula notica</i> H. & W. Falls of the Ohio (James Hall) (Nettleroth).				×								
<i>Nucula herzeri</i> Nettleroth. Falls of the Ohio (Nettleroth).				×								
<i>Nucula nasuta</i> Hall. see <i>Nuculana nasuta</i> .												
<i>Nucula shumardana</i> Hall, 15. Washington County.								×				
<i>Nucula ventricosa</i> Hall, 11. Sullivan County (C. A. White).											×	
<i>Nuculana bellistriata</i> Stevens, 13. Vermillion, Sullivan, Vanderburgh and Warrick Counties (C. A. White).											×	
<i>Nuculana nasuta</i> Hall (<i>Nucula nasuta</i>). Washington County (Hall).								×				
<i>Nuculana shumardana</i> , 12. Spargen Hill (Hall).								×				

	ORDOVICIAN.		SILURIAN.		DEVONIAN.	CARBONIFEROUS.						QUATERNARY.		
	Cincinnati.		Clinton.	Niagara and Water Lime.		Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.		Manfield.	Coal Measures.
<i>Opisthoptera casei</i> White.....	×													
Richmond (Ulrich).														
<i>Opisthoptera obliqua</i> White.....	×													
Richmond (Ulrich).														
<i>Orthodesma canaliculatum</i> Ulrich.....	×													
(Ulrich).														
* <i>Orthodesma parallelum</i> Hall.....	×													
Madison.														
* <i>Orthodesma rectum</i> H. & W.....	×													
Madison.														
<i>Orthodesma subangulatum</i>	×													
Richmond (Ulrich).														
<i>Otonella hainesi</i> Miller.....	×													
Richmond (Ulrich).														
<i>Palaeoneto bedfordensis</i> Meek.....								×						
Washington County.							×							
<i>Panetia radians</i> Conrad (Cardiola radians)....							×							
Scott County (Whitfield).														
* <i>Paracyclas elliptica</i> Hall, 10.....							×							
Falls of the Ohio, and Clark County (James Hall).														
* <i>Paracyclas elliptica</i> var. <i>occidentalis</i> Hall.....							×							
Centerville.														
<i>Paracyclas elongata</i> Nottleroth.....							×							
Clark County (Nottleroth).														
* <i>Paracyclas lirata</i> (Con.) Hall.....							×							
Falls of the Ohio and Clark County (James Hall.)														
<i>Paracyclas oterlonii</i> Nettleroth.....							×							
Falls of the Ohio (Nottleroth).														
<i>Paracyclas ohioensis</i> Meek.....							×							
Clark County (Nottleroth).														
<i>Pinna subspatulata</i> Worthen, 8.....									×	×				
Washington and Harrison Counties.														
* <i>Pinna peracuta</i> Shumard, 13.....											×		×	
Orange County (C. A. White).														
* <i>Pterinea brisa</i> , Hall, 11.....														
see <i>Pterinea striacosta</i> .														
<i>Pterinea corrugata</i> James (Avicula corrugata) ..	×													
Wayne County (James).														
* <i>Pterinea concentrica</i> Con.....							×							
Charlestown.														
* <i>Pterinea demissa</i> Conrad (Avicula demissa)....	×													
Madison (W. S. T. Cornett)														
* <i>Pterinea flabellum</i> Conr. 11.....							×							
Falls of the Ohio and Shelby County.														
<i>Pterinea grandis</i> Hall.....							×							
Scott County (James Hall).														
<i>Pterinea insueta</i> Emmons (Avicula insueta).....	×													
Madison (Cornett).														
<i>Pterinea striacosta</i> McChesney (<i>Pterinea striacosta</i>).....							×							
Waldron (James Hall).														
<i>Pterinapecten nodosus</i> Hull.....							×							
Falls of the Ohio (James Hall).														
<i>Pterinapecten reflexus</i> Hull.....							×							
Falls of the Ohio (James Hall).														
<i>Pteronites spergensis</i> Whitfield.....									×					
Spergen Hill and Bloomington (R. P. Whitfield)														
<i>Ptychodesma knappianum</i> H. & W.....							×							
Falls of the Ohio (James Hall).														
<i>Rhytimya byrnei</i> Miller.....	×													
Richmond (Ulrich).														

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.							QUATERNARY.	
	Cincinnati.	Clinton.	Niagara and Water Lime.	Coronerous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures	Drift.
<i>Bellerophon levis</i> , 7. Orange County.								X				
<i>Bellerophon tinculatus</i> Hall. Rockford (James Hall).						X						
<i>Bellerophon tyra</i> Hall. Falls of the Ohio (Hall).				X								
<i>Bellerophon marcousanus</i> (?) Geinetz, 8. Harrison County.								X				
<i>Bellerophon mohri</i> Miller. Richmond (Ulrich).	X											
* <i>Bellerophon montfortanus</i> N. & P., 7. Vanderburgh County.											X	
* <i>Bellerophon nudocarinatus</i> Hall, 13. New Harmony and Sullivan County (C. A. White).											X	
* <i>Bellerophon patulus</i> Hall, 11. Charlestown and Shelby County.				X								
* <i>Bellerophon pelops</i> Hall. Charlestown.				X								
* <i>Bellerophon perracianus</i> Conrad, 13. Throughout the Coal Measures (White).											X	
<i>Bellerophon subangulatus</i> Ulrich Richmond (Ulrich).	X											
* <i>Bellerophon sublaevis</i> Hall, 12. Spergen Hill and Bloomington (Hall), Washington, Owen and Harrison Counties, Greencastle.							X	X				
<i>Bellerophon testis</i> Hall, 12. Spergen Hill, Bloomington and Lanesville (H. H.).								X				
<i>Bellerophon tuber</i> Hall, 11. Waldron (James Hall).			X									
* <i>Bucania chicagensis</i> McChesney. Grant County.			X									
<i>Bucania deranica</i> H. & W. Clark County (Nettleroth).				X								
<i>Bucania crassa</i> Ulrich. Richmond (Ulrich).	X											
<i>Bucania expansa</i> Hall. Richmond.	X											
<i>Bucania simulatrix</i> Ulrich Richmond (Ulrich).	X											
<i>Bulin</i> <i>Bulimiformis</i> Hall. see <i>Bulimorpha bulimiformis</i> .												
<i>Bulimella caudiculata</i> Hall. see <i>Bulimorpha cancellulata</i> .												
<i>Bulimella elongata</i> Hall. see <i>Bulimorpha elongata</i> .												
<i>Bulimorpha bulimiformis</i> Hall, 12. Washington County.								X				
<i>Bulimorpha cancellulata</i> Hall, 12. Washington County.								X				
<i>Bulimorpha elongata</i> Hall, 15. Washington County.								X				
<i>Callanema bellatula</i> Hall. Falls of the Ohio (Nettleroth).				X								
<i>Callanema imitator</i> H. & W. Clark County (Nettleroth).				X								
<i>Capulus acutirostris</i> . see <i>Platyceras acutirostrum</i> .												
<i>Capulus equilateralis</i> Hall. Crawfordsville (Keyes).						X						
<i>Capulus infundibulum</i> Meek & W. Crawfordsville (Keyes).						X						

	ORDOVICIAN.		SILURIAN.	DEVONIAN.	CARBONIFEROUS.						QUATERNARY.	
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corruterous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.
<i>Euomphalus planispira</i> Hall, 12.								X				
Spergen Hill and Blooming on (Hall), Harrison County, Monroe County, Greencastle and Washington County												
<i>Euomphalus planorbiformis</i> Hall, 8.								X	X			
Harrison County, Washington County and Orange County.												
<i>Euomphalus quadrivolvus</i> , 12.												
see <i>St. aparollus quadrivolvus</i> .												
<i>Euomphalus rugosus</i> Hall, 13.												
see <i>Euomphalus subrugosus</i> .												
* <i>Euomphalus sampsoni</i> Nettleroth				X								
Clark County (Nettleroth).												
<i>Euomphalus spargensis</i> , 12.												
see <i>Straparollus spargensis</i> .												
<i>Euomphalus spargensis</i> var. <i>planorbiformis</i> , 12.												
see <i>Straparollus spargensis</i> .												
<i>Euomphalus spirorbis</i> .												
see <i>Straparollus spirorbis</i> .												
<i>Euomphalus subrugosus</i> M. & W. (<i>E. rugosus</i>).											X	
Throughout the Coal Measures (C. A. White).												
* <i>Euomphagus tinea</i> Hall.				X								
Charlestown.												
<i>Helicotoma marginata</i> Ulrich.	X											
Richmond (Ulrich).												
<i>Holopea grandis</i> Miller & Gurley.						X						
New Albany (Miller & Gurley).												
<i>Holopea hubbardi</i> Miller, 18.	X											
Madison.												
<i>Holopea proutana</i> Hall, 12.								X				
Spergen Hill (Hall), Washington County.												
* <i>Isokena lichus</i> Hall.				X								
Charlestown.												
<i>Liospira vitruvia</i> Bill.	X											
(Ulrich).												
<i>Lophospira acuminata</i> n. sp. or var. <i>peraculata</i> .	X											
Richmond (Ulrich).												
<i>Lophospira ampla</i> Ulrich.	X											
Richmond (Ulrich).												
<i>Lophospira bowdenti</i> Safford.	X											
(Ulrich).												
<i>Lophospira multigrana</i> Miller.	X											
Madison and Richmond and Versailles.												
<i>Loconema hamiltonae</i> Hall.				X								
Clark County (Nettleroth).												
<i>Loconema hydraulicum</i> H. & W.				X								
Charlestown (Nettleroth).												
<i>Loconema laeviusculum</i> Hall.				X								
Falls of the Ohio (Nettle oth).												
<i>Loconema nexile</i> Phillips, 11.				X								
Shelby County.												
<i>Loconema reticulatum</i> Hall.				X								
Falls of the Ohio (Nettleroth).												
<i>Loconema teres</i> Hall.				X								
Falls of the Ohio and Charlestown.												
<i>Loconema vincta</i> Hall.												
see <i>Murchisonia vincta</i> .												
<i>Loconema yanuelianum</i> Hall, 12.								X				
Spergen Hill (Hall), Washington County.												
<i>Macrocheilus fusiiformis</i> .												
see <i>Soleniscus tusiformis</i> .												
<i>Sarcrocheilus</i> (?) <i>littonarus</i> Hall, 12.								X				
Bloomington.												

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	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Corniferous and Hamilton. New Albany Shale.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
* <i>Pleurotomaria meekani</i> Hall, 12. Spargen Hill and Bloomington (Hall), Wash- ington County.				×	
<i>Pleurotomaria mitigata</i> Hall Rockford (James Hall).					
* <i>Pleurotomaria nodulostriata</i> Hall, 12 Spargen Hill and Bloomington (Hall), Wash- ington County.				×	
* <i>Pleurotomaria occidentis</i> Hall. Delphi.		×			
<i>Pleurotomaria piacensis</i> Hall, 15. Washington County.				×	
<i>Pleurotomaria procteri</i> Nettleroth Clark County (Nettleroth).			×		
<i>Pleurotomaria rotundata</i> see <i>Pleurotomaria subglobosa</i> .					
* <i>Pleurotomaria shumardi</i> M. & W., 8. Harrison County and Crawfordville.				×	
* <i>Pleurotomaria sphærolata</i> Conrad, 13 Vanderburgh and Vigo (White).					×
<i>Pleurotomaria tabulata</i> Conrad., Hall (Hall).					×
<i>Pleurotomaria subangulatum</i> Hall. see <i>Cyclonema subangulatum</i> Hall.					
<i>Pleurotomaria subglobosa</i> Hall, 12 (<i>Pleuroto- maria rotunda</i>) Spargen Hill and Bloomington.				×	
* <i>Pleurotomaria subcomarginata</i> Conrad Watson's Station and Falls of the Ohio (Hall)		×			
<i>Pleurotomaria subconica</i> , Hall Richmond.	×				
<i>Pleurotomaria scallorana</i> Hall, 12. Spargen Hill and Bloomington (Hall), Wash- ington County.				×	
* <i>Pleurotomaria tabulata</i> Conrad, 10 and 13. Rush Creek, Vigo County, and Posey County (White).					×
<i>Pleurotomaria textiligera</i> Meek. Washington County.				×	
<i>Pleurotomaria trilineata</i> Hall, 12. Spargen Hill (Hall), Washington County.				×	
<i>Pleurotomaria tropidophora</i> Meek Versailles (Miller), Madison (W. S. T. Cor- nett).	×				
<i>Pleurotomaria turbiniiformis</i> M. & W., 13. Vigo County (C. A. White).					×
<i>Pleurotomaria vaulosa</i> H. Rockford (James Hall).				×	
* <i>Pleurotomaria wortheni</i> Hall, 12. Spargen Hill and Bloomington (Hall), Wash- ington County, Monroe and Harrison Counties.				×	
<i>Polyphemopsis fusiformis</i> Hall, 10. Newport (C. A. White).					×
<i>Polyphemopsis lucicollae</i> H. & W. Falls of the Ohio (Nettleroth).			×		
<i>Polyphemopsis nitidula</i> M. & W., 11 Vermillion County (C. A. White).					×
<i>Protomartinia cancellata</i> Hall. (Ulrich).	×				
<i>Protomartinia subcompressa</i> Ulrich. Versailles (Ulrich).	×				
<i>Raphitoma richmondensis</i> Ulrich. Richmond (Ulrich).	×				

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coniferous and Hamilton. New Albany Shale.	Knoxstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Conularia crawfordsvillensis</i> R. Owen.....					
Crawfordsville (R. Owen).					
<i>Conularia furcata</i> Miller & Dyer.....	×				
Versailles (Miller & Dyer).					
<i>Conularia gratiosa</i> M. & G.....					
Spergen Hill (Miller & Gurley).					
<i>Conularia infrequens</i> Hall, 11.....		×			
Waldron.					
<i>Conularia intertexta</i> Miller, 18.....					
West Point.					
* <i>Conularia micronema</i> Meek, 8.....					
Cia k County					
* <i>Conularia missouriensis</i> Swallow, 8 and 10.....					
Harrison County, Washington County and Ellettsville.					
* <i>Conularia niagarensis</i> Hall.....		×			
Grant County and Waldron.					
* <i>Conularia neubergeri</i> Winchell, 8.....					
Harrison County and New Albany.					
* <i>Conularia quadrilobata</i> (?) Miller.....		×			
Waldron.					
* <i>Conularia subcarbonaria</i> Meek & Worthen, 8....					
Harrison County, Washington County and Crawfordsville.					
<i>Conularia subulata</i> Hall, 12.....					
Alton (Hall).					
<i>Conularia spergensis</i> M. & G.....					
Spergen Hill (Miller & Gurley).					
<i>Hypolites aculeatus</i> Hall (Puginculus aculeatus)					
Rockford (James Hall).					
<i>Hypolites</i> (?) <i>dubius</i> M. & F.....	×				
Versailles (M. & F.).					
<i>Hypolites versaillesensis</i> M. & F.....	×				
Versailles (M. & F.).					
<i>Puginculus</i> (?) (<i>Theca</i>) <i>aculeatus</i> H.....					
see <i>Hypolites aculeatus</i> .					
<i>Styliola fissurella</i> Hall (<i>Tentaculites fissurella</i>).			×		
New Albany and Scott Counties (Whitfield).					
Falls of the Ohio (Nettleroth).					
<i>Tentaculites dextrifera</i> Hall.....			×		
Pendleton (H. H.).					
* <i>Tentaculites fissurella</i> Hall.....					
see <i>Styliola fissurella</i> .					
<i>Tentaculites flexuosa</i>					
see <i>Conoculites flexuosus</i> .					
* <i>Tentaculites richmondensis</i> Miller.....	×				
Richmond (Miller) (Hall).					
<i>Tentaculites neoriparius</i> Hall.....			×		
Clark County (Nettleroth).					
* <i>Tentaculites tenuistriatus</i> M. & W.....	×				
Richmond.					
<i>Tentaculites niagarensis</i> Hall, 11.....		×			
Delaware County.					
CEPHALOPODA.					
<i>Ancoceras indianensis</i> Newell.....		×			
Delphi (Newell).					
<i>Ancoceras neubergeri</i> Bell.....		×			
Delphi (Newell).					
<i>Cyrtoceras amoenum</i> Miller.....	×				
Richmond (Miller).					

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton.	Niagara and Water Lime.	Corriferous and Hamilton. New Albany Shale. Knoxstone and Rockford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Gyroceras abruptum</i> Hall, 11 Waldron.		X			
<i>Gyroceras baeri</i> M. & W. (Trochoceras baeri), Richmond (Miller) & Meek).	X				
* <i>Gyroceras elvodi</i> White, 11 Hartsville, St. Paul and Delaware County.		X			
* <i>Gyroceras gracile</i> Hall. Rockford (J. Hall).				X	
* <i>Gyroceras incognitum</i> Meek Falls of the Ohio.			X		
* <i>Gyroceras spinosum</i> Conrad Logansport.			X		
<i>Gyroceras rockfordensis</i> M. & W. Rockford (Meek & Worthen).				X	
<i>Hexamerocheras cuculliformis</i> Newall, 17. Wabash County.		X			
<i>Hexamerocheras delphicolium</i> Newell. Delphi (Newell).		X			
<i>Kionoceras columnare</i> Hall (O. columnare) Wabash City (Newell).		X			
<i>Kionoceras strix</i> H. & W. (O. strix). 17 Wabash City (Newell), Delphi and Grant County.		X			
<i>Lituites bickmoreanus</i> Whitfield, 17 Wabash County.		X			
<i>Lituites grafftonensis</i> M. & W., 17 Wabash County.		X			
* <i>Lituites marshi</i> Hall, 11 and 17. Wabash County, Delaware County.		X			
<i>Lituites multicostratus</i> Whitfield, 17 Wabash County.		X			
* <i>Nautilus charkeus</i> Hall. Spengen Hill (Hall), Washington and Tippecanoe Counties.				X	
<i>Nautilus (Solenchilus) collectus</i> M. & W. see Solenchilus collectum.					
* <i>Nautilus coxanus</i> , 12 see Temnocheilus coxanum.				X	
* <i>Nautilus decoratus</i> Cox. Vanderburgh, Clay and Vigo Counties and Greencastle.					
<i>Nautilus digonus</i> M. & W. see Trematodiscus digonus.					
<i>Nautilus forbesianus</i> McChesney, 13 Newport (C. A. White).					X
<i>Nautilus macinus</i> Conrad Falls of the Ohio (Nettleroth).					
<i>Nautilus missouriensis</i> Swall? 13 Fountain County (C. A. White).					X
* <i>Nautilus occidentalis</i> Swallow Dubois County.					X
<i>Nautilus oceanus</i> Hall, 11. Waldron.		X			
* <i>Nautilus planorbiformis</i> M. & W. Dubois County.					X
* <i>Nautilus (Cryptoceras) rockfordensis</i> M. & W. Rockford (Meek & Worthen).				X	
<i>Nautilus trisulcatus</i> M. & W. see Trematodiscus trisulcatus.					
<i>Nautilus (Discus) trisulcatus</i> M. & W. Rockford (Meek & Worthen).				X	
<i>Nautilus winslowi</i> M. & W., 13. see Temnocheilus winslowi.					

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	Cincinnati.	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton. New Albany Shale. Knobstone and Rockford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
* <i>Orthoceras subeancellatum</i> Hall, 11 St. Paul and Waldron.		X			
* <i>Orthoceras subulatum</i> Hall..... Waldron.		X			
* <i>Orthoceras stris</i> Hall, 17..... see Kinoceræ stris.					
<i>Orthoceras unionense</i> Worthen, 17..... Wabash County (Newell).		X			
* <i>Orthoceras whitii</i> Winch..... Rockford.				X	
<i>Orthoceras winchelli</i> M. & W..... Greencastle.				X	
<i>Orthoceras (Actinoceras) youngi</i> Foerste. Hanover (Foerste).		X			
<i>Pentameroceras wigam</i> Barrande..... Delphi (Newell).		X			
<i>Phragmoceras angustum</i> Newell, 17..... Wabash County.		X			
* <i>Phragmoceras ellipticum</i> H. & W..... Clark County, Grant County and Wabash County.		X			
* <i>Phragmoceras linearis</i> New..... Wabash County.		X			
* <i>Phragmoceras nestor</i> Hall, 17..... Grant County, Marion and Monon.		X			
* <i>Phragmoceras parvum</i> H. & W.... Grant County		X			
<i>Phragmoceras projectum</i> Newell, 17..... Wabash County		X			
<i>Phragmoceras walshi?</i> M. & W..... Jeffersonville.		X			
<i>Remeleceras clarkense</i> Miller & Gurley. Sampson Springs, Clark County (Miller & Gurley).				X	
<i>Soleniscus rockfordense</i> Miller, 17..... Rockford.				X	
<i>Solenochilus henryvilensis</i> M. & G.. Henryville (Miller & Gurley).				X	
<i>Solenochilus rockfordense</i> Miller..... Rockford (Miller).				X	
<i>Streptodictya indicusensis</i> Miller, 18..... West Point.				X	
* <i>Tenuochilus coxanum</i> Meek & Worthen, 8..... Orange County and Greencastle.				X	
<i>Trematodius watsonae</i> M. & W., 8..... Harrison County.				X	
* <i>Tenuochilus watsoni</i> M. & W. (Nautilus win- slowi)					X
Dauville and Dubois Counties (C. A. White). <i>Trematodiscus digonus</i> M. & W. (Nautilus digonus)				X	
Jackson County. <i>Trematodiscus trisulcatus</i> M. & W. (Nautilus trisulcatus).				X	
Rock ord (Meek & Worthen). <i>Trochoceras desplayensense</i> McChesney, 17..... Wabash County.		X			
<i>Trochoceras (?) baeri</i> M. & W..... see Gyrocera bneri.					
* <i>Trochoceras waldronense</i> , 11..... Waldron (Hall).		X			

	ORDOVICIAN.		SILURIAN.	DEVONIAN.	CARBONIFEROUS.							QUATERNARY.	
	Cincinnati.		Clinton.	Niagara and Water Lime.	Carboniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.
* <i>Dalmanites pleuropteryx</i> Green				×									10
Louisville, Ky.													
* <i>Dalmanites verrucosus</i> Hall, 11.				×									
Waldron (James Hall).													
* <i>Dalmanites vigilans</i> Hall, 11.				×									
Waldron (James Hall).													
<i>Eucriniturus punctatus</i> Wahlenberg.			×										
Hanover (Foerste).													
<i>Euproops colletti</i> White, 13.												×	
Vigo County (White).													
<i>Eurypterus kokomoensis</i> Miller & Gurley.				×									
Kokomo (Miller & Gurley).													
<i>Eurypterus lucustris</i> Claypole.				×									
Kokomo (Claypole).													
* <i>Homalonotus delphinocephalus</i> Green 11.				×									
Waldron (James Hall).													
<i>Iliaenus ambiguus</i> Foerste.				×									
Hanover (Foerste).													
* <i>Iliaenus armatus</i> Hall, 11.				×									
Waldron (James Hall).													
<i>Iliaenus daytonensis</i> H. & W.				×									
Osgood (Foerste).													
<i>Iliaenus insignis</i> Hall, 6.				×									
Madison.													
<i>Iliaenus madisonensis</i> Foerste.				×									
Osgood (Foerste).													
* <i>Iliaenus iocus</i> Hall, 11.				×									
Renessaleur & Waldron.													
* <i>Isotelus gigas</i>													
see <i>Asaphus gigas</i> . Richmond.													
<i>Lichas boltoni</i> var. <i>occidentalis</i> Hall, 11.				×									
Waldron (James Hall).													
* <i>Lichas brevicornis</i> Hall, 11.				×	×								
Waldron & Charlestown (James Hall), Hanover (Foerste).													
<i>Lichas byrnesianus</i> M. & G.				×									
Madison (Miller & Gurley).													
<i>Lichas emarginatus</i> Hall.				×									
Waldron (James Hall).													
<i>Lichas hanoverensis</i> M. & G.				×									
Hanover (Miller & Gurley).													
* <i>Phacops bufo</i> Green.					×								
Charlestown, N. Vernon and Falls of the Ohio (Miller & Gurley).													
<i>Phacops cristata</i> var. <i>pipa</i> H. & C.					×								
Falls of the Ohio (Hall & Clarke).													
<i>Phacops gallicephalus</i> , 6.	×												
Madison (Cornett).													
* <i>Phillipsia bufo</i> M. & W., 10.							×		×				
Spargen Hill (Whitfield), Crawfordsville, Jacksonville and Harrison County.													
<i>Phillipsia doris</i> (Hall), Winch. (Proteus doris) .							×						
Rockford (Herrick), (Hall).													
* <i>Phillipsia meramecensis</i> Shumard.									×				
Lanesville and Bloomington.													
* <i>Phillipsia portlocki</i> M. & W.								×	×				
Harrison County and Washington.													
<i>Phillipsia rockfordensis</i> Winch.							×						
Rockford (Herrick).													
<i>Phillipsia</i> (<i>Griffithides</i> ?) <i>sangamonensis</i> M. & W.												×	
Perryville, Eugene, Lodi, Silverwood, Newport and Dubois County (C. A. White)													

	ORDOVICIAN.		SILURIAN.		DEVONIAN.		CARBONIFEROUS.						QUATERNARY.
	Cincinnati.	Clinton.	Niagara and Water Line.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Kaskaskia.	Mansfield.	Coal Measures.	Drift.	
<i>Phillipsia (Griffithides) scitula</i> M. & W., 13. Perryville, Eugene, Lodi, Silverwood and Newport (C. A. White).											×		
<i>Phillipsia seminifera</i> Morrison, 8. Harrison County.								×					
* <i>Phillipsia stephensoni</i> Meek. Orange County.									×				
<i>Ptilolites ohioensis</i> Cozzens. Falls of the Ohio (Cozzens).				×									
<i>Proetus craticulatus</i> Hall & Clark. Falls of the Ohio (Hall & Clarke).				×									
<i>Proetus clarius</i> Hall. Falls of the Ohio (Jas. Hall & J. M. Clarke).				×									
* <i>Proetus crassimarginatus</i> Hall. Falls of the Ohio (Hall).				×									
† <i>Proetus curvilinearis</i> H. & C. Pendleton (Hall & Clark).													
† <i>Scholaria</i> grit (Hall & Clark).		×											
<i>Proetus determinatus</i> Foerste. Ripley County (Foerste).													
<i>Proetus doris</i> Hall. see <i>Phillipsia doris</i> .													
† <i>Proetus latimarginatus</i> H. & C. Pendleton (Hall & Clark).													
* <i>Proetus longicaudus</i> Hall. Falls of the Ohio.				×									
<i>Proetus microgemma</i> H. & C. Falls of the Ohio (Hall & Clark).				×									
* <i>Proetus planimarginatus</i> Meek. Madison, Falls of the Ohio.				×									
EUOSTRACA.													
<i>Macrocaris garlhi</i> Miller, 18. West Point.							×						
ENTOMOSTRACA.													
<i>Aparchites inornatus</i> Ulrich. Falls of the Ohio (E. O. Ulrich).				×									
<i>Barychilina puncto-striata</i> Ulrich.				×									
<i>Barychilina puncto-striata</i> var. <i>custa</i> Ulrich. Falls of the Ohio (Ulrich).				×									
<i>Barychilina pulchella</i> Ulrich. Falls of the Ohio (Ulrich).				×									
<i>Beyrichia chamberi</i> Miller. Richmond (Miller).	×												
<i>Beyrichia granulosa</i> Hall, 11. Waldron (Hall).													
<i>Beyrichia hammelli</i> M. & F. Versailles (M. & F.).	×												
<i>Beyrichia</i> (?) <i>Depranella</i> - <i>Amodina</i> Jones. Falls of the Ohio (Ulrich).				×									
<i>Beyrichia lyoni</i> Ulrich. Falls of the Ohio (Ulrich).				×									
<i>Beyrichia striato-marginatus</i> Miller. Osgood (Miller).	×												
<i>Bollia obesa</i> Ulrich. Falls of the Ohio (Ulrich).				×									
<i>Bollia pumila</i> Ulrich. Weisburg.				?	×								

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton	Niagara and Water Lime.	Carboniferous and Hamilton.	New Albany Shale. Knoxstone and Rockford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Mansfield. Coal Measures.	Drift.
<i>Bythocypris indianense</i> Ulrich..... Falls of the Ohio (A. E. Ulrich).				X		
<i>Bythocypris punctulata</i> Ulrich..... Falls of the Ohio (A. E. Ulrich).				X		
<i>Ceratopsis chambersi</i> Miller..... Richmond and Versailles (A. E. Ulrich).	X					
<i>Otenobolbina (?) Ballia) antepiaosa</i> Ulrich..... Falls of the Ohio (Ulrich).				X		
<i>Otenobolbina iaformis</i> Ulrich..... Falls of the Ohio.				X		
<i>Otenobolbina papillosa</i> Ulrich..... Falls of the Ohio (Ulrich).				X		
<i>Cythere carbonaria</i> Hall..... <i>see Leperditia carbonaria.</i>						
<i>Cytherella glandella</i> Whitfield..... <i>see Cytheropsis glandella.</i>						
<i>Cytheropsis glandella</i> Whitfield..... Spergen Hill (R. P. Whitfield).					X	
<i>Etonia madisonensis</i> Ulrich..... Madison (Ulrich).	X					
<i>Etonia waldronensis</i> Ulrich..... Waldron (Ulrich).		X				
<i>Eurychitina striatmarginata</i> Miller..... Osgood (S. A. Miller).	X					
<i>Hallia retifera</i> Ulrich..... Falls of the Ohio (Ulrich).				X		
<i>Isochitina rectangularis</i> Ulrich..... Falls of the Ohio (Ulrich).				X		
<i>Kirkbya subquadrata</i> Ulrich..... Falls of the Ohio (Ulrich).				X		
<i>Labichia montifera</i> Ulrich..... Madison (Ulrich).	X					
<i>Lecia tricarinata</i> Meek & Worthen..... Vermillion County (C. A. White), Vigo County.						X
<i>Leperditia cuneata</i> Miller..... Madison (E. O. Ulrich), Versailles and Osgood (Miller).	X					
<i>Leperditia carbonaria</i> Hall, 12 (<i>Cythere carbonaria</i>)..... Bloomington and Lanesville, and Washington County.					X	
<i>Leperditia fuba</i> Hall..... Waldron (J. Hall).		X				
<i>Leperditia (?) subrotunda</i> Ulrich..... Falls of the Ohio (E. O. Ulrich).				X		
<i>Odonaria elongata</i> Ulrich..... Falls of the Ohio (A. E. Ulrich).				X		
<i>Odonaria devonica</i> Ulrich..... Falls of the Ohio (A. E. Ulrich).				X		
<i>Odonaria arata</i> Ulrich..... Falls of the Ohio (E. O. Ulrich).				X		
<i>Odonaria stigma</i> Ulrich..... Falls of the Ohio (E. O. Ulrich).				X		
<i>Odonaria stigma</i> var. <i>locutona</i> Ulrich..... Falls of the Ohio (E. O. Ulrich).				X		
<i>Odonaria stigma</i> var. <i>oblonga</i> Ulrich..... Falls of the Ohio (E. O. Ulrich).				X		
<i>Pachydometta tumida</i> Ulrich..... Falls of the Ohio (A. E. Ulrich).				X		
<i>Strepuda quadrilobata</i> var. <i>simplex</i> Weisburg (Ulrich).	X					
<i>Tetradella quadrilobata</i> H. & W. Richmond and Versailles (Ulrich).	X					

	ORDOVICIAN.		SILURIAN.	DEVONIAN.	CARBONIFEROUS.						QUATERNARY.		
	Cincinnati.	Clinton.			Niagara and Water Lime.	Carboniferous and Hamilton.	New Albany Shale.	Kindstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.		Kaskaskia.	Mansfield.
INSECTA.													
<i>Paoli vetusta</i> S. I. Smith, 20. French Lick.											x		
PISCES.													
<i>Antilodus arcuatus</i> N. & W. Greencastle (Newberry).									x				
<i>Antilodus minutus</i> N. W. Harrison County (Newberry).									x				
<i>Antilodus similis</i> Newberry & Worthen Harrison County (Newberry).								x					
<i>Archaeolatis gigas</i> New. Greencastle (Newberry).									x				
<i>Aspidotus crenulatus</i> Newberry & Worthen see <i>Psephodus crenulatus</i> .									x				
<i>Chomatodus angustus</i> Newberry. Harrison County (Newberry).									x				
<i>Chomatodus obliquus</i> Newberry. Harrison County (Newberry).									x				
<i>Chomatodus pusillus</i> N. & W., 8. Harrison County (Collett).									x				
<i>Chomatodus scylliformis</i> Newberry. Harrison County (Newberry).									x				
<i>Cladodus gracilis</i> N. & W. Posey County (Newberry & Worthen).											x		
<i>Ctenopterygius semicircularis</i> N. & W. see <i>Peripristis semicircularis</i> .									x				
<i>Deltodus cinctus</i> St. John & Worthen Harrison County (Newberry).									x				
<i>Deltodus grandis</i> ? N. & W. Harrison County (Newberry).									x				
<i>Deltodus spatulatus</i> N. & W. Harrison County (Newberry).								x					
<i>Diplodus compressus</i> Newberry. Posey County (Newberry & Worthen).											x		
<i>Diplodus latus</i> Newberry. Posey County (Newberry & Worthen).											x		
<i>Edestus heinrichi</i> N. & W. Vermillion County, Parke County (Hitchcock) (Newberry).											x		
<i>Edestus minor</i> Newberry. Posey County (Newberry & Worthen).											x		
<i>Helodus conieulus</i> Newberry & Worthen Harrison County (Newberry).									x				
<i>Helodus laevis</i> Newberry. Harrison County (Newberry).									x				
<i>Labodus marginatus</i> . Greencastle (Newberry).									x				
<i>Lisogodus affinis</i> Newberry. Harrison County (Newberry).									x				
<i>Macropetalichthys raphidolabis</i> Norwood & Owen. (Norwood & Owen) Falls of the Ohio.					x								
<i>Orodus colletti</i> Newberry. Harrison County (Newberry).									x				
<i>Orodus elegantulus</i> N. & W. Harrison County (Newberry).									x				
<i>Orodus multicarinatus</i> N. & W. Rockford (Norwood & Worthen).							x						
<i>Orodus ornatus</i> N. & W. Harrison County (Newberry).								x					

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton. Niagara and Water Lime.	Coniferous and Hamilton. New Albany Shale.	Knoxstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia, Mansfield, Coal Measures	Drift.
<i>Orthopleurodus carbonarius</i> New. & W. Posey County (St. John & Worthen).					×
<i>Petalodus knappi</i> Newberry Harrison County (Newberry).				×	
<i>Periphrictus semicircularis</i> N. & W. (Ctenopterygius semicircularis) Posey County (Newberry & Worthen).					×
<i>Petrodus occidentalis</i> (Newberry & Worthen), 7 Vigo County, Clay County, Vanderburgh County, Owen County.					×
<i>Sandalodus minor</i> New. & Worthen (Trigonodus minor) Harrison County (Newberry).				×	
<i>Teniodus regularis</i> St. John & Worthen Bedford (St. John & Worthen).				×	
<i>Thrinacodus bicornis</i> Newberry Harrison County (Newberry).				×	
<i>Trigonodus minor</i> N. & W. see Sandalodus minor.					
<i>Polyphizodus littori</i> N. & W. Greencastle (Newberry).				×	
<i>Psammodus ptyctus</i> St. J. & W. Greencastle (Newberry).				×	
MAMMALIA.					
<i>Canis dolichopis</i> Cope, 15. Harrison County.					×
<i>Caturus ohioensis</i> Foster, 15. Richmond, Hancock County, near Green- field, Randolph County (J. Moore), Van- derburgh, Carroll and Kosciusko Counties.					×
<i>Cervus virginianus</i> Wabash County.					×
<i>Dicotyles nanus</i> Leidy, 15. Gibson County.					×
<i>Dicotyles torquatus</i> ?, 15.					×
<i>Elephas americanus</i> Blum, 15. Vigo, Parke, Vermillion, Wayne, Putnam, Vanderburgh and Montgomery Counties.					×
<i>Elephas primigenius</i> , 15. Clinton and Wabash Counties.					×
<i>Equus fraternus</i> Leidy, 15.					×
<i>Equus major</i> DeKay, 15.					×
<i>Mastodon americanus</i> Blum., 15. Covington, Fountain County, and Wabash County.					×
<i>Megalonyx jeffersoni</i> Cuv., 15 Henderson, Ky.					×
<i>Platygonus compressus</i> Le Conte, 15. Laketon, Wabash County.					×
<i>Tupia teretica</i> ? 15 Evansville.					×
PLANTAE.					
<i>Alethopteris grandiflora</i> Newberry, 7. Vigo County.					×
<i>Alethopteris niagarensis</i> , 7 Vigo County.					×

[illegible]

	Cincinnati.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
			Niagara and Water Lime.	Coriferous and Hamilton.	New Albany Shale. Knoxstone and Rockford Limestone. Burlington and Keokuk. Warsaw and St. Louis. Kaskaskia. Maunsfield. Coal Measures.	Drift.
<i>Sphenopteris hoeninghausii</i> (Brongniart), 20..... Orange County (David White)						X
<i>Sphenopteris latifolia</i> Brongniart..... see <i>Pseudoscopteris latifolia</i> .						
<i>Sphenopteris tridactylites</i> Brongn..... Orange Connty (Lesquereux).						X
<i>Spirangium prendeli</i> Lesq. (<i>Paleoxyris prendelli</i>) Vigo County.						X
<i>Sporangites radiatus</i> Duden, 21..... New Albany (Duden).				X		
<i>Stigmaria ficoides</i> Brongn., 8..... Monroe and Harrison Counties.					X	
<i>Stigmaria hightoweri</i> Kront..... Crawfordsvill						
<i>Stigmaria stellata</i> Goepfert, 8.... Harrison County.						X
<i>Stigmaria undulata</i> Goepfert?, 8 Harrison County.						X

PART II. BIBLIOGRAPHY OF INDIANA PALEONTOLOGY.

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1891. FOERSTE, A. F. Fossils of the Clinton group in Ohio and Indiana. Geol. Surv. Ohio, Vol. VII, pp. 516-601. Describes some new species, gives figures of all the Ohio and Indiana fossils mentioned, together with notes on the same. The Indiana localities of seventeen fossils are given. He considers the beds just below the Waldron Shales in Indiana to represent the Clinton group.
1893. FOERSTE, A. F. Remarks on specific characters in *Orthoceras*. Am. Geol., Vol. 12, 1893, pp. 232-236, fig. 1-6. Discusses the characters of the siphuncle in *O. ignotum* Foerste, which is found at Hanover, Ind.
1895. FOERSTE, A. F. An account of the Middle Silurian rocks of Ohio and Indiana. Jour. Cin. Soc. Nat. Hist., Vol. 18, 1895, pp. 161-191, pl. 7. Sections in Southeastern Indiana are correlated with others in Ohio. Lists of fossils are given from several localities in Southeastern Indiana.

1896. FOERSTE, A. F. A report on the geology of the Middle and Upper Silurian rocks of Clark, Jefferson, Ripley, Jennings, and southern Decatur Counties, Ind. 21st Ann. Rep't Ind. Dept. Geol. Nat. Res., pp. 212-288. Lists of fossils from a number of localities in the region are given.
1874. GARDNER, JAS. Tripoli. Geol. Surv. of Ind., 1873, pp. 423-425, fig. 1-5. The material reported upon is from above coal, K., Dubois County; it is composed mainly of sponge spicules.
1835. GORBY, S. S. A new Crinoid. Hoosier Mineralogist and Archaeologist, Vol. 1, No. 10, 1885. Describes without figure *Eucahyptocrinus elrodi* from Hartsville, Indiana.
1886. GORBY, S. S. Geology of Washington County. 15th Ann. Rep't Ind. Dept. of Geol. and Nat. Hist., 1885-'86, pp. 117-153. Gives a list of about one hundred and twenty species of Warsaw fossils; also a number of fossils from the other formations of the county.
1886. GORBY, S. S. Geology of Tippecanoe County. 15th Ann. Rep't Ind. Dept. of Geol. and Nat. Hist., 1885-'86, p. 83. Mentions half a dozen species of St. Louis fossils.
1886. GORBY, S. S. The Wabash Arch. 15th Ann. Rep't Ind. Dept. of Geol. and Nat. Hist., p. 236. Notes a few Niagara fossils at Kentland, and some Hudson River fossils from the same locality which he supposes to have been forced up from the underlying Lower Silurian.
1888. GORBY, S. S. Geology of Miami County. 16th Ann. Rep't Ind. Dept. of Geol. and Nat. Hist., 1888, p. 181. Gives six species of Niagara fossils.
1886. GORBY, S. S., AND LEE, S. E. Geology of Boone County. 15th Ann. Rep't Ind. Dept. of Geol. and Nat. Hist., 1885-86, p. 167. Notes the finding of *Rhynchonella capax* in the Drift.
1880. GREEN, G. K. Geology of Monroe County. Rep't Geol. Surv. Ind., 1880, pp. 427-449. Gives lists of Subcarboniferous fossils from several localities in the county.
1883. GURLEY, W. F. E. New Carboniferous fossils. Bulletin No. 1, pp. 1-9, 1883. Danville, Ill. Three species from Indiana are described in this paper without figures. They are *Lingula cravfordsvillensis* from the Keokuk, *Dentalium acutisulcatum* and *Cypriocardia undulatum* from the Coal Measures.

1879. HAINES, MARY P. List of fossils found in the Lower Silurian rocks in the vicinity of Richmond, Indiana. 8th, 9th and 10th Ann. Rep'ts Ind. Geol. Surv., pp. 201-204. This list is based upon Mrs. Haines' private collection of fossils.
1843. HALL, JAS. Notes explanatory of a section from Cleveland, Ohio, to the Mississippi River, in a southwest direction, with remarks upon the identity of the Western formations with those of New York. Assoc. Am. Geol. Trans., 1843, pp. 267-293, plate.
1843. HALL, JAS. On the geographical distribution of fossils in the older rocks of the United States. Am. Jour. of Sci., Vol. 45, 1843, pp. 157-160, 162-163.
1844. HALL, JAS. Geographical distribution of fossils. Am. Jour. Sci., Vol. 47, 1844, pp. 117-118.
1851. HALL, JAS. Parallelism of the Paleozoic deposits of the United States and Europe. Foster and Whitney's Rep't on Lake Superior. Pt. II, 1851, pp. 285-318. Compares the Paleozoic rocks of the West with those of New York.
1856. HALL, JAS. Description of new species of fossils from the Carboniferous Limestones of Indiana and Illinois. Trans. Alb. Inst., Vol. 4, pp. 1-36. A large number of new species, all from the St. Louis group of Indiana and Illinois, with one exception, are described but not figured.
1857. HALL, JAS. Descriptions of Paleozoic fossils. 10th Reg. Rep't N. Y., 1857, pp. 41-186. Describes some new brachiopods from the Devonian and *Spirifer texta* from the Knobstone.
1858. HALL, JAS. Paleontology of Iowa. Geol. Surv. of Iowa, Vol. 1, Pt. 2, pp. 473-724, pls. 1-29. A number of the fossils which were described from the St. Louis L. S. at Spergen Hill, Indiana, in the Trans. of the Albany Institute, Vol. IV, are illustrated in this volume.
1860. HALL, JAS. Descriptions of new species of Crinoida from the Carboniferous rocks of the Mississippi Valley. Bost. Jour. Nat. Hist., Vol. 7, pp. 261-328. The author describes six new species of Crinoids from the Keokuk at Crawfordsville. These are *Scaphioerinus unicus*, *S. nodobranchiatus*, *S. robustus*, *S. aequalis*, *Cyathocrinus hoveyi* and *C. lyoni*.
1860. HALL, JAS. Upon the fossils of the Goniatic limestone in the Marcellus Shale of the Hamilton group in the eastern and central parts of the State of New York and those of the Goniatic beds of Rockford, Indiana; with some analogous forms

- from the Hamilton group. 13th Ann. Rep't Regents Univ. N. Y., 1860, pp. 95-112, figs. 1-22. A large list of new species from Rockford is described, most of which are not figured.
1861. HALL, JAS. Supplementary note. 14th Ann. Rep't Regents Univ. N. Y., 1861, p. 81. The age of the Rockford Goniatic beds and of the Black Shale is discussed. It is suggested that the former is the equivalent of the Chemung.
1861. HALL, JAS. Preliminary notice of the Trilobites and other Crustacea of the Upper Helderberg, Hamilton and Chemung groups. 14th Ann. Rep't Regents Univ. of N. Y., 1861, pp. 82-114. Three Trilobites from the Falls of the Ohio are described. *Dalmania calypso*, *D. pleione* and *Proetus crassemarginatus*.
1862. HALL, JAS. Notice of some new species of fossils from a locality of the Niagara group in Indiana, with a list of identified species from the same place. Trans. Albany Inst., Vol. 4, 1862, pp. 195-228. The new species described in this paper are figured in the 16th Ann. Rep't Regents Univ. of N. Y.
1867. HALL, JAS. Descriptions and figures of the fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung groups. Pal. of N. Y., Vol. 4, Pt. 1, 1867, pp. I-XIII, 1-422, pls. 1-63. A number of the species described occur at the Falls of the Ohio and elsewhere in Indiana rocks.
1878. HALL, JAS. Note upon the history and value of the term Hudson River in American geological nomenclature. Am. Assoc. Adv. Sci. Proc., Vol. 26, pp. 259-265, 1878. Abstract Am. Jour. Sci., 3d ser., Vol. 16, p. 482.
1879. HALL, JAS. The fauna of the Niagara group in Central Indiana. 28th Ann. Rep't N. Y. State Mus. Nat. Hist., 1879, pp. 99-199, pls. 1-34. The species occurring at Waldron, Indiana, are described and figured in this report.
1882. HALL, JAS. Descriptions of fossil corals from the Niagara and Upper Helderberg groups of Indiana. 12th Ann. Rep't Ind. Dept. Geol. and Nat. Hist., pp. 271-375.
1882. HALL, JAS. Vaneleve's fossil corals, identified and compiled by Dr. Jas. Hall. 12th Ann. Rep't Ind. Dept. Geol. Nat. Hist., 1882, pp. 239-318, pls. 1-28.
1884. HALL, JAS. Lamellibranchiata of the Upper Helderberg, Hamilton, Portage and Chemung groups (Monomyaria). Pal. N. Y., Vol. 5, Pt. 1, 1884, pp. I-X, 1-268, pls. 1-33, 81-92. The

following species are figured and described from the Falls of the Ohio: *Aviculopecten princeps*, *Pterinopecten reflexus*, *P. nodosus*, *Pterinea grandis*, *Glyptodesma occidentale*, *Limoptera cancellata*. *Pterinea grandis*, a new species from Scott County, is described.

1884. HALL, JAS. Descriptions of fossil corals from the Niagara and Upper Helderberg groups. 35th Ann. Rep't N. Y. State Mus. Nat. Hist., pp. 407-464, pls. 16, 23-30. Describes and figures a large number of new species from the Falls of the Ohio.
1884. HALL, JAS. Descriptions of the species of fossil Reticulate Sponges constituting the family Dictyospongia. 35th Ann. Rep't N. Y. State Mus. Nat. Hist., pp. 465-481, pls. 18-21. Species from the Keokuk at Crawfordsville are described.
1885. HALL, JAS. Lamellibranchiata (Dimyaria), Pal. N. Y., Vol. 5, Pt. I, pp. 269-561, pls. 34-96. Eighteen species from Indiana are described and figured in this volume, some of which are new.
1887. HALL, JAS. Corals and Bryozoa. Pal. of N. Y., Vol. 6, 1887. pp. I-XXVI, 1-298, pls. 1-66. In this volume Prof. Hall describes and figures about seventy species, many of which are new, from the "Corniferous Limestone" at the Falls of the Ohio.
1888. HALL, JAS. Pteropoda of the Niagara, Lower and Upper Helderburg, Hamilton and Waverly Groups. Pal. N. Y., Supplement Vol. 5, Pt. 2, pp. 5-7, pl. 104, 1888. Describes and figures *Tentaculites dextrithea* from Pendleton.
1888. HALL, JAS. Tubicolor Annelida, Pal. N. Y., Supplement Vol. 5, Pt. 2, pp. 8-24, pl. 116, 1888. Describes and figures *Cor-nulites proprius* from Waldron, and figures *Tentaculites richmondensis* Miller from Richmond.
1888. HALL, JAS. Supplement containing descriptions and illustrations of Pteropoda, Cephalopoda and Annelida. Pal. N. Y., Vol. 5, Pt. 2, 1888, pls. 114-129. Three Cephalopods from Indiana are figured in this supplement. These are *Gomphoceras minum* from the Falls of the Ohio, *Orthoceras indianense* and *O. icarus* from Rockford, Indiana.
1888. HALL JAS., AND CLARK, J. M. Trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Pal. of N. Y., Vol. 7, 1888, pp. I-LXIV, 1-236, pls. 1-36. Two new species from what Hall considers a

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Schoharie grit horizon at Pendleton, Indiana, are described. These are *Poetus curvilinearatus* and *P. latimarginatus*. Other new species from the Falls of the Ohio are figured.

1892. HALL, JAS., AND CLARK, J. M. An introduction to the study of the genera of Paleozoic Brachaeopoda. Pal. of N. Y., Vol. 8, Pt. 1, 1892, pp. 182, 346. Two new Brachiopods from Indiana are described and figured in this volume. *Derbya ruginosa* from the Keokuk and *Pholidops calceola* from the Corniferous Ls.
1872. HALL, JAS., AND WHITFIELD, R. P. Descriptions of new species of fossils from the vicinity of Louisville, Kentucky, and the Falls of the Ohio. 24th Ann. Rep't Regents of the Univ. of N. Y., 1872, pp. 223-239. The plates were published in the 27th Ann. Rep't Reg. Univ. N. Y., 1875, Nos. 9-13.
1844. HAYMOND, RUFUS. Notices of remains of Megatherium, Mastodon and Silurian fossils. Am. Jour. Sci., Vol. 46, pp. 294-296, 1844.
1887. HERRICK, C. L. A sketch of the geological history of Licking County, accompanying an illustrated catalogue of Carboniferous fossils from Flint Ridge, Ohio. Denison Univ. Bull., Vol. 2, pp. 62, 63. Gives descriptive notes on three Trilobites from Rockford, Indiana. They are *Phillipsia scitula* M. & W., *P. doris* (Hall) Winch. and *P. rockfordensis* Winch.
1891. HUBBARD, GEO. C. The Upper limits of the Lower Silurian at Madison, Indiana. Proc. Ind. Acad. Sci., 1891, pp. 68-70. Places the limit 50 feet above the Favistella reef.
1891. HUBBARD, GEO. C. The Cystideans of Jefferson County, Indiana. Proc. Ind. Acad. Sci., 1891, p. 68. Gives no list of species. Mentions Big Creek as a good locality for collecting.
1891. HUBBARD, GEO. C. Hudson River fossils of Jefferson County, Indiana. Proc. Ind. Acad. Sci., 1891, p. 68. Gives a summary by families of number of species. No specific names given.
1874. JAMES, U. P. Descriptions of new species of fossils from the Lower Silurian formation, Cincinnati group. Cin. Quart. Sci., Vol. 1, 1874, pp. 239-242. Describes a new species from Wayne County—*Avicula corrugata*—and mentions Indiana localities for some other species.
1886. JAMES, J. F. Cephalopoda of the Cincinnati group. Jour. Cin. Soc. Nat. Hist., Vol. 8, 1886, pp. 235-253. The paper contains a convenient key to the species of Cephalopoda and gives Indiana localities for a number of species.

1886. JAMES, J. F. Protozoa of the Cincinnati group. Jour. Cin. Soc. Nat. Hist., Vol. IX, No. 3, pp. 244-252, 1886. Gives a synopsis of genera and species of the Protozoa of the Hudson River group. Notes *Labechia montifera* from Madison and *Stromatoceerium richmondense* Miller, Hudson River group, Richmond.
1892. JAMES, J. F. Manual of the Paleontology of the Cincinnati group. Jour. Cin. Soc. Nat. Hist., Pt. 3, in Vol. 15, No. 2, 1892, pp. 88-100; Pt. 4, Vol. 15, Nos. 3 and 4, pp. 144-160; Pt. 5, Vol. 16, 1894, pp. 178-208; Pt. 6, Vol. 18, 1895; Pt. 7, Vol. 18, pp. 115-140.
1897. JAMES, J. F. Article XII—Manual of the Paleontology of the Cincinnati group. Jour. Cin. Soc. Nat. Hist., Vol. XIX, No. 3, pp. 99-118. The following species from Indiana localities are included: *Xenocrinus beeri* M., Richmond, *Glyptocrinus decadactylus* H., Madison.
1889. KEYES, C. R. The Carboniferous Echinodermata of the Mississippi basin. Am. Jour. Sci., 3d Ser., Vol. 3, p. 186. Gives table showing range of principal carboniferous genera.
1890. KEYES, C. R. Synopsis of American Carbonic Calyptraeidae. Proc. Phila. Acad. Nat. Sci., 1890, pp. 150-181, Pl. 2. Three species from Crawfordsville are figured—*Capulus sulcatus*, *C. equilateralis*, *C. infundibulum*—and one from the Coal Measures, *C. parvus*.
1896. KINDLE, E. M. The Whetstone and Grindstone rocks of Indiana. 20th Ann. Rep't Ind. Dept. Geol. and Nat. Res., 1895, p. 349. Describes occurrence of *Lepidodendrons* standing upright in the Whetstone quarries near French Lick, and republishes the original figure of *Paola vetusta*.
1889. KNOWLTON, F. K. Description of a problematic organism from the Devonian at the Falls of the Ohio. Am. Jour. Sci., 3d Ser., Vol. 37, 1889, pp. 202-209, fig. 1-3. The organisms are referred provisionally to the genus *Calcisphaera*.
1870. LESQUEREAUX, LEO. Description of new species, and an enumeration, with remarks on species already known. Geol. Surv. of Ill., Vol. 4, 1870, pp. 379-477, pls. 5-31. One new coal plant is described from Indiana, without figure—*Chondrites colletti*—and mention is made of another.
1875. LESQUEREAUX, LEO. Species of fossil marine plants from the Carboniferous Measures. Geol. Survey of Ind., 1875, pp. 135-145. Five new species are described and figured. Four of these are from Indiana and one from Illinois.

1875. LESQUEREAUX, LEO. Geol. Survey of Ind., 1875, p. 7. Eight species of fossil plants from the Millstone grit are given by Cox, which were determined by Lesquereaux.
1883. LESQUEREAUX, LEO. Principles of Paleozoic Botany and the fauna of the Coal Measures. 13th Ann. Rep't Ind. Geol. Surv., 1883, pp. 1-185, pls. 1-22. Gives descriptions of the fossil plants which have been and are likely to be found in Indiana.
1884. LESQUEREAUX, LEO. A list of the species of fossil plants found at each locality. 2d Geol. Surv. Pa., Vol. 3, p. 852. Gives list of species known from the Whetstone beds.
1849. LYELL, CHAS. A second visit to the U. S. Vol. II, pp. 269-278, London, 1849. Describes fossil *Sigilaria* at New Harmony and the Coral reef at Louisville.
1857. LYON, SYDNEY S. Description of new species of organic remains. Ky. Geol. Surv., Vol. 3, 1857, pp. 467-498, pls. 1-5. The following new crinoids from the Falls of the Ohio are figured and described: *Actinocrinus abnormis*, *Dalatocrinus lacus*, *Vasocrinus sculptus*, *Olavanites verneuilli*, *O. angularis*, *Codaster alternatus*.
1859. LYON, SYDNEY S. AND CASSEDAY S. A. Description of nine new species from the Subcarboniferous rocks of Indiana and Kentucky. Am. Jour. of Sci. and Arts, Vol. XXIX, pp. 68-79, 1859. Describes five species without figures from the Indiana Subcarboniferous, *Cayathocrinus decalactylus*, *C. hexalactylus*, *Actinocrinus indianensis* and *Onychocrinus exculptus*, from Montgomery County, and *Actinocrinus coreyi*, from Washington County.
1859. LYON, S. S., AND CASSEDAY. Description of nine new species of Crinoidea from the Subcarboniferous rocks of Indiana. Am. Jour. Sci., Vol. 28, 2d ser., pp. 233-246, 1859. The species which are described here without figures are figured in the Geol. Surv. of Ill., Vol. 7.
1861. LYON, SIDNEY S. Descriptions of new Paleozoic fossils from Kentucky and Indiana. Proc. Acad. Nat. Sci. Phila., pp. 409-414, 1 plate, 1861. Describes two new species from strata just below the Hydraulic limestone at the Falls of the Ohio, *Oonochoerinus exculptus* and *Megistoerinus spinulosus*.
1882. McCASLIN, DAVID S. Geology of Jay County. 12th Ann. Rep't Ind. Dept. Geol. and Nat. Hist., 1882, p. 166. Gives a list of fifteen species from Niagara at Jay City.

1869. MCCHESENEY, J. H. Descriptions of Paleozoic rocks of the Western States, with illustrations. Trans. Chic. Acad. of Sci., Vol. 1, 1867-1869, pp. 1-57, pls. 1-9. Several species from the Coal Measures of Indiana are described, and also one from the Hudson River group, *Trematospira matthewsoni*.
1865. MEEK, F. B. Descriptions of nine species of Crinoidea, etc., from the Paleozoic rocks of Illinois and some of the adjoining States. Proc. Phila. Acad. Sci., 1865, pp. 143-166. Describes some new Crinoids from Crawfordsville.
1869. MEEK, F. B. Description of new Crinoidea and Echin oidea from the Carboniferous rocks of the Western States, with a note on the Genus Onychaster. Proc. Phila. Acad. Nat. Sci., 1869-70, pp. 67-83. Describes *Calceocrinus bradleyi* from Crawfordsville.
1871. MEEK, F. B. Descriptions of new Western Paleozoic fossils, mainly from the Cincinnati group of the Lower Silurian series of Ohio. Proc. Phila. Acad. Sci., 1871, pp. 308-336. Refers *Homocrinus polydactylus* Shum. from Richmond, Indiana, to *Poteriocrinus* (*Dendrocrinus*) *polydactylus*.
1871. MEEK, F. B. On some new Silurian Crinoids and Shells. Am. Jour. Sci. and Arts, Vol. II, 3d ser., 1871, pp. 295-302. Describes two new Crinoids *Dendrocrinus casei* and *Lepocrinites moorei*, from Richmond, Indiana.
1872. MEEK, F. B. Descriptions of two new star-fishes and a Crinoid from the Cincinnati group of Ohio and Indiana. Am. Jour. of Sci. and Arts, Vol. III, 3d ser., p. 260. Describes *Glyptocrinus baeri* and *Stenaster grandis* from Richmond, Indiana.
1872. MEEK, F. B. Descriptions of two new star-fishes and a Crinoid from the Cincinnati group of Ohio and Indiana. Am. Jour. of Sci., 3d ser., Vol. 3, 1872, pp. 257-262. These descriptions, with illustrations, are republished in the Pal. of Ohio.
1873. MEEK, F. B. Spargen Hill fossils identified among specimens from Idaho. Am. Jour. Sci., 3d ser., Vol. 5, 1873, pp. 383-384.
1873. MEEK, F. B. Descriptions of invertebrate fossils of the Silurian and Devonian systems. Geol. Surv. of Ohio, Vol. I, Pt. II, pp. 1-243. Gives Indiana localities of many Lower Silurian fossils.
1860. MEEK, F. B., AND WORTHEN, A. H. Descriptions of new Carboniferous fossils from Illinois and other Western States. Proc.

- Phila. Acad. Nat. Sci., 1860, pp. 447. Several fossils from Rockford are described, some of which are figured in Vol. 2. Geol. Surv. of Ill.
1861. MEEK, F. B., AND WORTHEN, A. H. Remarks on the age of the Goniatile Limestone at Rockford, Indiana, and its relations to the "Black Slate" of the Western States and to some of the succeeding rocks above the latter. Am. Jour. Sci., 2d ser., Vol. 32, pp. 167-177. Gives list of species from Rockford known to be identical with Chateau Ls. species in Missouri and Illinois.
1865. MEEK, F. B., AND WORTHEN, A. H. Descriptions of new Crinoidea, etc., from the Carboniferous rocks of Illinois and some of the adjoining States. Proc. Phila. Acad. Nat. Sci., 1865, pp. 155-166. Describes several Crinoids from Crawfordsville.
1865. MEEK, F. B., AND WORTHEN, A. H. Contributions to the Paleontology of Illinois and other Western States. Proc. Phila. Acad. of Sci., 1865, pp. 251-275. *Gyroceras? rockfordensis* and *Nautilus (Cryptoceras) rockfordensis* are described from Rockford, Indiana.
1866. MEEK, F. B., AND WORTHEN, A. H. Invertebrate fossils of the Kinderhook group. Geol. Surv. of Ill., Vol. 2, 1866, pp. 145-166, pl. 14. Several species from Rockford originally described in Proc. Phila. Acad. Sci., 1860, are figured in this volume.
1868. MEEK, F. B., AND WORTHEN, A. H. Paleontology. Geol. Surv. of Ill., 1868, Vol. 3, Pt. 2, pp. 291-565, pls. 1-20. A number of fossils from Indiana, previously described in the Proc. Phila. Acad. of Sci. without illustrations, are figured in this volume.
1868. MEEK, F. B., AND WORTHEN, A. H. Fossils of the Hamilton group. Geol. Surv. of Ill., Vol. 3, 1868, pp. 419-449, pls. 10-12. A few Indiana species previously described in Proc. Chic. Acad., Vol. 1, and Proc. Acad. Nat. Sci. Phila., 1866, are figured in this volume.
1870. MEEK, F. B., AND WORTHEN, A. H. Descriptions of new species and genera of fossils from the Paleozoic Rocks of the Western States. Proc. Phil. Acad. Nat. Sci., 1870, pp. 22-64. A number of species from Indiana are described but not figured in this paper. Some of them have since been figured in Vol. 7, Geol. Surv. of Ill.
1873. MEEK, F. B., AND WORTHEN, A. H. Descriptions of invertebrates from the Carboniferous System. Geol. Surv. of Ill.,

- Vol. 7, 1873, pp. 321-521, pls. 1-17. This paper figures a number of Crawfordsville Crinoids which were described by the authors without figures in the Proc. Phila. Acad. Nat. Sci., 1870, p. 22, and by Lyon and Cassiday in Am. Jour. Sci., Vol. 28, 2d ser., p. 233.
1874. MILLER, S. A. Monograph of the Gasteropoda of the Cincinnati group. Cin. Quart. Jour. Sci., Vol. 1, 1874, pp. 302-321, fig. 30-34. One new species from Richmond, Indiana (*Bellerophon mohri*) is described, and Indiana localities of several other species are given.
1874. MILLER, S. A. Monograph of the Lamellibranchiata of the Cincinnati group. Cin. Quart. Jour. Sci., Vol. 1, 1874, pp. 211-236, fig. 20-29. Several new species of *Tentaculites* and *Beyricia*, and some new *Lamellibranches* are described and figured from Richmond, Osgood and Versailles, Indiana.
1874. MILLER, S. A. Notice of *Modiolopsis pholadiformis* (Foster & Whitney). Cin. Quart. Jour. Sci., Vol. 1, 1874, p. 282. A Lamellibranch from Richmond is identified with this species.
1875. MILLER, S. A. *Crania reticularis*. Cin. Quart. Jour. Sci., Vol. 2, 1875, p. 280, fig. 22. This species is described from a specimen obtained from Brookville, Indiana.
1875. MILLER, S. A. Class Cephalopoda (Cuvier), as represented in the Cincinnati group. Cin. Quart. Jour. Sci., Vol. 2, 1875, pp. 121-134. Indiana localities are given for several species.
1875. MILLER, S. A. Monograph of the Class Brachiopoda of the Cincinnati group. Cin. Quart. Jour. Sci., Vol. 2, 1875, pp. 6-62. Indiana localities are given for a large number of the species considered.
1878. MILLER, S. A. Descriptions of a new genus and eleven new species of fossils. Jour. Cin. Soc. Nat. Hist., Vol. 1, 1878, pp. 100-108, pl. 3 and 4. Four new species from the Hudson River group of Indiana are described; these are *Cyrtolites magnus*, *Murchisonia multigrana*, *Cyrtoceras amoenum* and *Angelum euneatum*.
1878. MILLER, S. A. Description of eight new species of *Holocystites* from the Niagara group. Jour. Cin. Soc. Nat. Hist., Vol. 1, No. 3, pp. 129-136, pls. V. and VI., 1878. Describes and illustrates with good figures the following new species: *H. brauni*, *H. ornatus*, *H. globosus*, *H. elegans*, *H. pleonus*, from the Niagara, Jefferson County, Indiana; *H. wetherbyi* Niagara, Ripley County, Indiana; *H. perlongus* Niagara, Waldron, Indiana.

1879. MILLER, S. A. Description of twelve new fossil species and remarks upon others. *Cin. Soc. Nat. Hist.*, Vol. II, No. 2. 1879, pp. 104-118, pls. 9-10. Describes the following species from Niagara strata, Ripley County: *Holocystites tumidus*, *H. baculus*, *H. rotundus*, *H. subrotundus*, *H. dyeri*, *H. ventricosus*, *Pisocrinus gemmiformis*. From Osgood, *Stephanocrinus osgoodensis*.
1879. MILLER, S. A. Catalogue of fossils found in the Hudson River, Utica Slate and Trenton groups, as exposed in southeastern Indiana, the southwestern part of Ohio and northern part of Kentucky. *Ind. Geol. Rep't*, 1876-77-78
1879. MILLER, S. A. Remarks upon the Kaskaskia group, and descriptions of new species of fossils from Pulaski County, Kentucky. *Jour. Cin. Soc. Nat. Hist.*, Vol. II, No. 1, pp. 31-42, 1879. The paper gives the views of Hall, Shumard and Worthen on the stratigraphic relations of the Kaskaskia group, and concludes that the name Kaskaskia must displace Chester in nomenclature by reason of ten years priority in publication.
1879. MILLER, S. A. Description of two new species from the Niagara group and five from the Keokuk group. *Jour. Cin. Soc. Nat. Hist.*, Vol. II, No. 2, 1879, pp. 254-259, pl. XV. Describes *Cyathocrinus harrisi* and *Palaeaster crawfordsvillensis* from the Keokuk at Crawfordsville, and *Holocystites turbinatus* from the Niagara, Ripley County.
1881. MILLER, S. A. Observations on the unification of geological nomenclature, with special reference to the Silurian formation of North America. *Jour. Cin. Soc. of Nat. Hist.*, Vol. IV, No. 3, pp. 267-293, 1881. Describes the Silurian rocks as they occur in Indiana and elsewhere in the United States, and discusses their paleontological features in detail.
1881. MILLER, S. A. Description of new species of fossils. *Jour. Cin. Soc. Nat. Hist.*, Vol. IV, No. 3, pp. 259-262, pl. 6, 1881. Describes and figures one new species from the Hudson River group at Versailles and Osgood, Indiana, *Leperditia calcigena*.
1882. MILLER, S. A. Description of two new genera and eight new species of fossils from the Hudson River group, with remarks upon others. *Jour. Cin. Soc. of Nat. Hist.*, Vol. V, pp. 34-44, pl. 1-2, 1882. One new sponge is described from Richmond, *Stromatocerium richmondense*. This was described as "pisolitic balls" by J. T. Plummer in the *A. J. S.*, Vol. 44, p. 281.
1882. MILLER, S. A. Description of three new orders and four new families in the class Echinodermata and eight new species from the Silurian and Devonian formations. *Jour. Cin. Soc. Nat.*

- Hist., Vol. V, 1882, pp. 221-231, pl. IX. Describes *Lichenocrinus tuberculatus*, from the Hudson River group three miles south of Osgood; *Cyclora pulcella*, from the Hudson River at Versailles, and *Poteriocrinus davisani* and *P. nettlerothani*, from the Upper Helderberg at Deputy, Indiana.
1882. MILLER, S. A. Descriptions of ten new species of fossils. Jour. Cin. Soc. Nat. Hist., Vol. V, 1882, pp. 79-88, pls. 3 and 4. Describes *Cyathocrinus crawfordsvillensis* from Crawfordsville.
1888. MILLER, S. A. The structure, classification and arrangement of American Paleozoic Crinoids into families. 16th Rep't Ind. Dept. of Geol. and Nat. Hist., 1888, pp. 302-326. The author indicates the systematic relations as understood by him of the Paleozoic genera, including those from Indiana.
1891. MILLER, S. A. Paleontology. 17th Rep't Ind. Dept. of Geol. and Nat. Hist., 1891, pp. 611-705, pls. I-XX. This paper describes and figures sixty-eight new species of Indiana fossils from the Carboniferous, Devonian and Silurian rocks; also several from Kentucky and Missouri.
1893. MILLER, S. A. Paleontology. 18th Rep't Ind. Dept. of Geol. and Nat. Hist., 1893, pp. 257-356, pls. I-XII. The author describes forty new species from the Carboniferous, Devonian and Silurian rocks of Indiana. Several new species from Ohio, Kentucky, Missouri and Kansas are described.
1894. MILLER, S. A., AND FABER, CHAS. Jour. Cin. Soc. Nat. Hist., Vol. 17, pp. 22-33, pl. 1. New species of fossils from the Hudson River group and remarks upon others. The authors describe a new Lamellibranch—*Bodmania insuetum*—which is the type of a new genus from Richmond, Indiana.
1888. MILLER, S. A., AND GURLEY, F. E. Description of some new genera and species of Echinodermata from the Coal Measures and Subcarboniferous rocks of Indiana, Missouri and Iowa. 16th Rep't Ind. Dept. of Geol. and Nat. Hist., 1888, pp. 326-373, 10 pls. Describes and figures thirty-one new species of Crinoidea from the Keokuk group of Indiana.
1890. MILLER, S. A., AND GURLEY, W. F. E. Description of some new genera and species of Echinodermata, from the Coal Measures and Subcarboniferous rocks of Indiana, Missouri and Iowa. Jour. Cin. Soc. Nat. Hist., 1890, pp. 3-25, pl. 1-4. The following new species of crinoids are described from Crawfordsville: *Agaricocrinus splendeus*, *Onychocrinus ulrichi*, *Batocrinus ulrichi*, *Batocrinus marinus*, *B. jucundus*, *Poteriocrinus granili-neus*, *P. crawfordsvillensis*, *Scaphiocrinus manus*.

1895. MILLER, S. A., AND GURLEY, WM. F. E. Description of some new species of invertebrates from the Paleozoic rocks of Illinois and adjacent States. Bull. No. 3, Ill. State Mus. Nat. Hist., 1893, pp. 1-81, pls. 1-8. The paper describes from Indiana two new Trilobites—*Lichas hanoverensis*, *Lichas byrnesanus*, *Lingula indianensis*, *Conularia gratiosa*, *C. spargensis* and a number of new Crinoids.
- — — MILLER, S. A., AND GURLEY, WM. F. E. New and interesting species of Paleozoic fossils. Bull. 7, Ill. State Mus. Nat. Hist. pp. 1-89, pls. 1-5. Several Indiana species are described.
1896. MILLER, S. A., AND GURLEY, WM. F. E. New species of Echinodermata and a new Crustacean from the Paleozoic rocks. Bull. 10 Ill. State Mus. Nat. Hist., p. 90, pl. 5. Describes *Eurypterus kokomoensis* from Kokomo.
1896. MILLER, S. A., AND GURLEY, WM. F. E. New species of paleozoic invertebrates from Illinois and other States. Bull. 11 Ill. State Mus. Nat. Hist., pp. 1-50, pls. 1-5. Describes three *Gastropods*, a *Goniatite*, an *Orthoceras* and a *Conularia*.
1897. MILLER, S. A., AND GURLEY, WM. F. E. New species of Crinoids, Cephalopods and other Paleozoic fossils. Bull. 12 Ill. State Mus. Nat. Hist., pp. 1-69, pls. 1-5. Describes several species from Indiana.
1878. MILLER, S. A., AND DYER, C. B. Contributions to Paleontology. Jour. Cin. Soc. Nat. Hist., Vol. 1, 1878, pp. 24-39, pls. 1-2. Three new species from Waldron are described—*Codaster pulchellus*, *Eucalyptocrinus tuberculatus*, and *Spirigera (?) waldronensis*. A new species from Versailles, Indiana—*Conularia formosa*—is described and figured.
1892. MILLER, S. A., AND FABER, C. Some new species and new structural parts of fossils. Jour. Cin. Soc. Nat. Hist., Vol. 15, 1892, pl. 1. A new species from the Niagara at Madison, Indiana—*Holocystites affinis*—is described and figured.
1894. MILLER, S. A., AND FABER, C. L. Description of some Cincinnati fossils. Jour. Cin. Soc. Nat. Hist., Vol. 17, 1894, pp. 137-158, pl. 7 and 8. The authors describe the following new species from Indiana: *Gomphoceras indianensis*, *Hyalithes versailensis*, *Hyalithes (?) dubius* and *Berychia hammetti*.
1886. MOORE, D. R. Fossil corals of Franklin County, Indiana. Bull. Brookville Society of Nat. Hist., No. 2, 1886, pp. 50-51. This paper gives a list of twenty-three species from the Upper and Lower Silurian, and four from the Drift.

1886. MOORE, D. R. Two hours among the fossils of Franklin County, Indiana. Bulletin of the Brookville Society of Natural History, No. 1, pp. 44-45. The paper gives a list of seventeen Lower Silurian fossils.
1893. MOORE, JOS. The recently found *Castoroides* in Randolph County, Indiana. Am. Geol., Vol. 12, 1893, pp. 69-74, pl. 3. *Castoroides ohioensis* Foster.
1890. MOORE, JOS. Concerning a skeleton of the great fossil beaver, *Castoroides ohioensis*. Jour. Cin. Soc. of Nat. Hist., Oct. 1890, pp. 138-169. Gives detailed description and twenty-five figures of a specimen from Randolph County, Indiana.
1890. MOORE, JOS. Concerning some portions of *Castoroides ohioensis* not heretofore known. Proc. Am. Assoc. Adv. Sci., Vol. 39, 1890, pp. 265-267. Specimen from Randolph County.
1873. NEWBERRY, J. S. Descriptions of fossil fishes. Geo. Surv. of Ohio, Vol. I, Pt. II, pp. 247-355. The author refers to the species referred incorrectly by Owen and Norwood to the Upper Silurian at Madison (p. 262), and calls attention to a bone bed at North Vernon, Indiana. Reports *Gyrocanthus compressus* from Dearborn County.
1879. NEWBERRY, J. S. List of fossils of Harrison County. 8th, 9th and 10th Ann. Rep'ts Geol. Surv. Ind., 1879, pp. 341-349. The list of fossils by Collett has appended a list of species of fishes determined by Newberry. The new species described are *Chomatodus selliformis*, *C. angustus*, *C. obliquus*, *Lisgodus affinis*, *Orodus colletti*, *Helodus laevis*, *Deltodus cinctus*, *Petalodus knappi*, and *Archaeobatis gigas*. The last genus is also new.
1890. NEWBERRY, JOHN S. The Paleozoic fishes of North America. Monog. U. S. Geol. Surv., Vol. 16, 340 pages, 53 pls., Washington, 1890. A few species from Indiana are figured.
1866. NEWBERRY, J. S., AND WORTHEN, A. H. Descriptions of new species of Vertebrates, mainly from the Subcarboniferous Limestone and Coal Measures of Illinois. Geol. Surv. of Ill., Vol. 2, 1866, pp. 11-141, pls. 1-13. Five species of fishes from Posey County are described—*Cladodus gracilis*, *Diplodus latus*, *D. compressus*, *Ctenopterygius semicircularis*, *Edestus minor*—and one from Rockford, *Orodus multicarinatus*.
1889. NETTLEROTH, HENRY. Kentucky fossil shells. A monograph of the fossil shells of the Silurian and Devonian rocks of Kentucky. Ky. Geol. Surv., pp. 1-245, pls. I-XXXVI, Frankfort, Ky. A large number of Devonian fossils from Clark County, Indiana, and the Falls of the Ohio are figured and described.

1888. NEWELL, FREDERICK H., Niagara Cephalopods from Northern Indiana. Pr. Bost. Soc. Nat. Hist., Vol. 23, pp. 466-486.
1875. NICHOLSON, H. ALLEYNE. Description of the corals of the Silurian and Devonian systems. Geol. Surv. of Ohio, Vol. II, 1875, pp. 183-242. The author reports *Eridophyllum strictum* from the Corniferous at Louisville.
1875. NICHOLSON, H. ALLEYNE. Descriptions of Amorphozoa from the Silurian and Devonian formations. Geol. Surv. of Ohio, Vol. II, 1875, pp. 245-255. Reports *Dictyostroma undulata* from the Niagara of Louisville, Ky.
1848. NORWOOD, J. G. Proc. Bost. Soc. Nat. Hist., Vol. 2, 1848, p. 102. In a letter to the society, Norwood announces the discovery of fossil fishes at a locality sixteen miles north of Madison.
1846. NORWOOD, JOS. G., AND OWEN, D. D. Description of a new fossil fish from the Paleozoic rocks of Indiana. Am. Jour. Sci., 2d Ser., Vol. 1, pp. 367-371, figs. 1 and 2. The fish described is *Maeropetalichthys rapheiolabis*, from the Corniferous.
1858. NORWOOD, J. G., AND PRATTON, HENRY. Notice of the genus *Chonetes*, as found in the Western States and Territories with descriptions of eleven new species. Proc. Phila. Acad. Nat. Sci., 1855-1858, Vol. 3, 2d ser., pp. 23-31, pl. 1. Figures *C. nana* from Falls of the Ohio.
1858. NORWOOD, J. C., AND PRATTON, HENRY. Notice of Producti found in the Western States and Territories, with descriptions of twelve new species. Proc. Phila. Acad. Sci. 1855-58, Vol. 3, 2d ser., pp. 522, pls. 1-2. Describes and figures *P. flemingii* de Kon. from the "Mountain Limestone," and from the Coal Measures in Posey County *P. buchianus* de Kon., *P. fimbriatus* Sow., *P. wabashensis* nov. sp., *P. flemingii* de Kon., *P. undiferous* de Kon.
1843. OWEN, D. D. On fossil palm trees in Indiana. Am. J. S. and A., Vol. 45, 1843., pp. 336-337 (abstract). Describes specimens from the Coal Measures at Big Creek, twelve miles from New Harmony and Bug Creek.
- 1859-60. OWEN, RICHARD. Report of a geological reconnoissance of Indiana, 1859-60, pp. 1-368. Gives lists of the characteristic Lower Silurian, Upper Silurian and Devonian fossils found in the State. The following fossils are figured: *Siphonia digitata*, *Halysites sexto-attenuatus*, *Bucania euomphaloides*, *Gyroceras rhombolinearis*, *Columnaria inequalis*, *Cerriopora lyra*, *Lithostrotion canadense*, *Pileopsis pabulocrinus*, *Conularia crawfordsvillensis*. Figures very poor.

1881. PHINNEY, A. J. Delaware County. 11th Ann. Rep't Ind. Dept. Geol. and Nat. Hist., pp. 126-149. Gives list of fossils found in the county.
1843. PLUMMER, JOHN T. Suburban geology about Richmond, Indiana. Am. Jour. Sci., Vol. 44, 1843, p. 281. Describes "pisolitic balls" which have since been described by S. A. Miller as a sponge, *Stromatocerium richmondense*.
1858. PROUT, H. A. Descriptions of Bryozoa from the Paleozoic rocks of the Western States and Territories. Trans. St. Louis Acad. Sci., Vol. 1, pp. 443-452, 571-581, pls. 15-18. Two new species from the Falls of the Ohio are described—*Semicoscinum rhomboideum*, *Linaria falcata* and *Semicoscinum tuberculatum*.
1843. ROGERS, H. D. On Marcellus and Hamilton of the West and South. Am. Jour. Sci., Vol. 41, pp. 161-162, 1843.
1866. ROMINGER, C. Observations on Chaetetes and some related genera in regard to their systematic position, with an appended description of some new species. Proc. Phila. Acad. of Sci., 1866, pp. 113-123. Three new species from Indiana are described—*Fistulipora neglecta*, *F. halli* and *F. spargensis*.
1876. ROMINGER, C. Fossil corals. Geol. Surv. of Mich., Vol. 3, Pt. 2, 1876, pp. 1-155, pls. 1-55. The paper describes or mentions about fifty species of corals from Indiana, many of which are figured.
1892. ROMINGER, C. On the occurrence of typical Chaetetes in the Devonian strata at the Falls of the Ohio, and likewise in the analogous beds in Germany. Am. Geol., Vol. 10, pp. 56-62, pl. 3. Describes one new species, *Chaetetes ponderosus*.
1890. ROWLEY, R. K. Some observations on the natural casts of Crinoids and Blastoids from Subcarboniferous Limestones of Indiana, Iowa, Illinois, Kentucky and Alabama. Am. Geol., Vol. 6, pp. 66-67.
1886. SEELEY, H. M. The genus Strephochetus: Distribution and species. Am. Jour. Sci., ser. 3, Vol. 32, p. 31. Sponge found at Madison. Describes *S. richmondensis* Miller from Richmond and Madison.
- SHALER, N. S. On the fossil Brachiopods of the Ohio Valley. Ky. Geol. Surv., pp. 1-44, pls. 1-8. This paper gives very full descriptions, with tables of measurement of several Lower Silurian species of the family Strophomenidae, together with notes on their geological and geographical range. It bears no date.

1858. SHUMARD, B. F. Description of new fossil Crinoidea from the Paleozoic rocks of the western and southern portions of the United States. From St. Louis Acad. Sci., Vol. 1, pp. 71-80, pl. 1. Describes and figures *Hemocrinus polydactylus* from the Lower Silurian at Richmond.
1858. SHUMARD, B. F. Descriptions of new species of Blastoidea from the Paleozoic rocks of the Western States, with some observations on the structure of the summit of the genus *Pentremites*. Trans. St. Louis Acad. Sci., Vol. 1, pp. 238-248, pl. 9. Describes three species from Indiana—*Odaster pyramidatus*, *C. americanus*, *Pentremites grosvenore*.
1871. SMITH, S. I. Notice of a fossil insect from the Carboniferous formation of Indiana. Am. Jour. Sci., Ser. 3, Vol. 1, pp. 44-46. The paper describes a new insect, *Psolia vetusta*, from the Hindostan Whetstone beds at French Lick. The original figure is republished in the 20th Ann. Rept. Geol. Surv. of Ind., p. 356.
1858. STEVENS, R. P. Description of new Carboniferous fossils from the Appalachian, Illinois and Michigan coal fields. Am. Jour. Sci., 2d ser., Vol. 25, pp. 258-265. Describes *Chiton parvulus* from Bergen Hill (Spergen Hill?).
1883. ST. JOHN, ORESTES, AND WORTHEN, A. H. Descriptions of fossil fishes. Geol. Survey of Ill., Vol. VII, 1893, pp. 57-264. Records *Taeniodus regularis* nov. sp. from Bedford, and *Orthopleurodon carbonarius* (N. and W.) from Posey County.
1886. THOMPSON, MATRICE. Fossil mammals of the Post Pliocene in Indiana. 15th Ann. Rep't of Ind. Dept. of Geol. and Nat. Hist., 1885 and '86, pp. 283-285. Gives brief descriptions and localities of all species certainly identified.
1891. THOMPSON, MATRICE. Geology of Carroll County. 17th Rep't Ind. Dept. of Geol. and Nat. Hist., 1891, pp. 171-191. Mentions a few fossils found at Delphi, by which he identified Niagara and Devonian strata at this point.
1886. THOMPSON, W. H. Geological Survey, Clinton County. 15th Ann. Rep't Ind. Dept. of Geol. and Nat. Hist., 1885-86, p. 155. Notes the discovery of *Elephas primigenius*.
1879. ULRICH, E. O. Description of a Trilobite from the Niagara group of Indiana. Jour. Cin. Soc. Nat. Hist., Vol. 11, No. 2, pp. 131-134, 1879. Describes and figures *Calymene nazuta* from the Niagara group at Osgood, Ripley County.

1879. ULRICH, E. O. Descriptions of new genera and species of fossils from the Lower Silurian about Cincinnati. Jour. Cin. Soc. Nat. Hist., Vol. II, No. 1, pp. 8-30, 1879. Describes and figures *Tellinomya cingulata* n. sp., found at Marble Hill, near Madison, and at Louisville, Kentucky.
1880. ULRICH, E. O. Catalogue of fossils occurring in the Cincinnati group of Ohio, Indiana and Kentucky. 31 pages, Cincinnati, 1880.
1882. ULRICH, E. O. American Paleozoic Bryozoa. Jour. Cin. Soc. Nat. Hist., Vol. V, 1882, pp. 232-257, pls. 10-11. Notes the following species from Osgood, Indiana: *Diplotrypa milleri* n. sp., *Monotrypella subquadrata* n. sp., *Callopora elegantula*.
1883. ULRICH, E. O. American Paleozoic Bryozoa. Jour. Cin. Soc. Nat. Hist., Vol. VI, pls. 10-14, pp. 245-279, 1883. Describes and figures the following new species from the Niagara group of Indiana: *Trematopora halli* n. sp. from Waldron, *T. whitfieldi* n. sp. from Waldron, and *Idiotrypa parasitica* n. sp. from Osgood.
1886. ULRICH, E. O. Descriptions of new Silurian and Devonian fossils. Contributions to American Pal., Vol. I, No. 1, 1886, pp. 3-35, pls. 1-3, Cincinnati. A number of new species of Bryozoa and Gastropods are described from Indiana rocks, also a new Brachiopod from the Knobstone—*Rhyrichonella greeniana*—and a new species of foraminifera—*Moellerina greeni*.
1888. ULRICH, E. O. A correlation of the Lower Silurian horizons of Tennessee and of the Ohio and Mississippi valleys with those of Canada. Am. Geol., Vol. I, pp. 100-110, 179-190, 305-315; Vol. II, pp. 39-44, 1888. Gives description of paleontology, stratigraphy and structure of the Lower Silurian of the Ohio Valley.
1888. ULRICH, E. O. A correlation of the Lower Silurian horizons of Tennessee and the Ohio and Mississippi valleys with those of New York and Canada. Am. Geol. I, 1888, pp. 39-44, 100-110, 305-315.
1890. ULRICH, E. O. New and little known American Paleozoic Ostracoda. Jour. Cin. Soc. Nat. Hist., Vol. 13, 1890, pp. 104-137, 173-211, pls. 7-18. Nearly thirty new species from Indiana are described in this paper.
1890. ULRICH, E. O. New Lamellibranchiata. Am. Geol., Vol. 6, Sept., 1890.

1893. ULRICH, E. O. New and little known Lamellibranchiata from the Lower Silurian rocks of Ohio and adjacent States. Geol. Surv. of Ohio, Vol. VII, pp. 627-693, pls. 45-56. Describes the following new species from Indiana: *Ichthyrodonta miseneri*, *Ichthyrodonta modioliformis*, *Modiolodon subrectus*, *M. declivis*, *M. subovalis*, *Clionychia excavata*.
1894. ULRICH, E. O. The Lower Silurian Ostracoda of Minnesota. Geol. and Nat. Hist. Surv. Minn., Vol. III, pp. 633-693, pls. 43-46, 1894. The author mentions two species of Ostracoda occurring at Richmond and Versailles which he figures; they are *Ceratopsis chambersi* Miller and *Tetradella quadrilirata* H. & W.
1897. ULRICH, E. O. The Lower Silurian Gastropoda of Minnesota. Geol. of Minn., Vol. 3, Pt. 2, pp. 815-1081, pls. 61-82. A large number of Gastropods from Indiana rocks are figured, some of which are new species.
1897. ULRICH, E. O. The Lower Silurian Ostracoda of Minnesota. Geol. of Minn., Vol. 3, Pt. 2, pp. 629-693, pls. 43-46. Two species are mentioned from the Cincinnati group of Indiana—*Ceratopsis chambersi* var. *robusta* and *Tetradella quadrilirata* Hall and White.
1897. ULRICH, E. O. The Lower Silurian Lamellibranchiata of Minnesota. Geol. of Minn., Vol. 3, Pt. 2, pp. 475-628, pls. 35-42. Four species are reported from the rocks of the Cincinnati group in Indiana. They are *Byssonychia tenuistriata*, *Modiolopsis concentrica* Hall. & Whit., *Orthodesma canaliculatum* Ulrich, *Whitella obliquata* Ulrich.
1847. VERNEUIL, ED. DE. Note sur le parallélisme des roches des dépôts paléozoïques de l'Amérique Septentrionale avec ceux de l'Europe, suivie d'un tableau des espèces fossiles communes aux deux continents, avec l'indication des étages où elles se rencontrent, et terminée par un examen critique de chacune de ces espèces. Bull. Soc. Geol. de France, (2) t. IV, pp. 640-710, 1847. Translated and condensed by Jas. Hall. Am. Jour. Sci., 2d ser., Vol. 5, 1848, pp. 176-183, 359-370; also Vol. 6, pp. 45-51, 218-231. de Verneuil considers the Black shale of Indiana and Kentucky equivalent to the Genesee of New York.
1889. VOGDES, ANTHONY W. The genera and species of North American Carboniferous Trilobites. Ann. N. Y. Acad. Sci., Vol. 4, pp. 69-105, pls. 2 and 3. Republishes the original descriptions of *Phillipsia doris* (Hall) Winch. and *P. rockfordensis* Winchell.

1881. WACHSMUTH, CHAS., AND SPRINGER, FRANK. Revision of the Paleo-Crinoidea, Part II. Proc. Phila. Acad. Nat. Sci., 1881, pp. 177-414, pls. 17-19. Describes the following new species from the Keokuk group in Indiana: *Eretmocrinus originarius*, *E. intermedius*, *E. adultus* and *Batocrinus whitei*.
1892. WACHSMUTH, CHAS., AND SPRINGER, FRANK. Description of two new genera and eight species of Camerate Crinoids from the Niagara group. Am. Geol., Vol. 10, 1892, pp. 135-144.
1878. WETHERBY, A. G. Description of a new family and genus of Lower Silurian Crustacea. Jour. Cir. Soc. Nat. Hist., Vol. I, 1878, No. 4, pp. 162-166. Describes the new Crustacean genus *Enoploura* from specimens found at Richmond and Osgood, Indiana, and Ohio localities, to which he transfers Meek's species, *balanoides*, from the Cystidae. See Meek's description in A. J. S., Vol. III (3d ser.), p. 423, 1872; also see review and sharp criticism of Wetherby's genus in Geological Magazine, May, 1880, by Dr. Henry Woodward.
1878. WHITE, C. A. Descriptions of new species of invertebrate fossils from the Carboniferous and Upper Silurian rocks of Illinois and Indiana. Proc. Phila. Acad. of Sci., 1878, pp. 29-37. The following species from Indiana are described without figures: *Baryphyllum fungulus*, *Platycrinus bonensis*, *Scapioocrinus gibsoni*, *Lepidesthes colletti* and *Scaphioocrinus gurleyi*.
1880. WHITE, C. A. Fossils of the Indiana rocks. 2d Ann. Rep't Dept. Stat. and Geol. of Ind., 1880, pp. 471-522, pls. 1-11. A few of the more common fossils of each of the formations in Indiana are described and figured.
1883. WHITE, C. A. Fossils of the Indiana rocks, No. 3. 13th Ann. Rep't Geol. Surv. Ind., 1883, pp. 107-186, pls. 23-39. The principal species of the Coal Measures are described.
1896. WHITE, DAVID. Report on the Fossil Plants from the Hindostan whetstone beds in Orange County, Indiana. 20th Ann. Rep't Ind. Dept. Geol. and Nat. Res., 1896, pp. 354-355. Gives list of species identified from a collection of plant fossils transmitted by E. M. Kindle.
1874. WHITFIELD, R. P. 6th Ann. Rep't Geol. Surv. Ind., pp. 179-182. Gives a list of fossils from the black shale, with notes.
1881. WHITFIELD, R. P. Remarks on Dictyophyton, and descriptions of new species of allied forms from the Keokuk beds at Crawfordsville, Indiana. Bull. Am. Mus. Nat. Hist., Vol. I, 1881, pp. 10-20, pls. 3, 4. Three new species are described—*Uphan-taenia dawsoni*, *Dictyophyton cattiliforme* and *D. cylindricum*.

1882. WHITFIELD, R. P. On the fauna of the limestones of Spergen Hill, Indiana, with a revision of the descriptions of its fossils hitherto published and illustrations of the species from the original type series. Bull. Am. Mus. Nat. Hist., Vol. I, 1882, pp. 39-97, pls. 6-9. Two new species are described from the St. Louis L's, at Spergen Hill—*Pteronites spergensis* and *Cytherellina glandella*. A list of species identified from this locality in addition to the species described by Hall is given.
1885. WHITFIELD, R. P. Notice of a new Cephalopod from the Niagara rocks of Indiana. Bull. Am. Mus. Nat. Hist., 1885, Vol. I, No. 6, p. 192, pl. 21.
1884. COPE, E. D., AND WORTMAN, J. L. Postpliocene vertebrates of Indiana. 14th Ann. Rep't Dept. Geol. and Nat. Hist. Surv.
1876. WINCHELL, N. H. Vegetable remains in the drift deposits of the Northwest. Am. Assoc. Adv. Sci. Proc., Vol. 24, Part 2, pp. 43-56, 1876.
1865. WINCHELL, ALEXANDER. Descriptions of new species of fossils from the Marshall group of Michigan and its supposed equivalents in other States; with notes on some fossils of the same age previously described. Proc. Phila. Acad. Nat. Sci., 1865, pp. 109-133. Describes and gives notes on six species of fossils from Rockford, Indiana.
1869. WINCHELL, ALEXANDER. On the geological age and equivalents of the Marshall group. Proc. Am. Phil. Soc., Vol. XI, pp. 57-83; Vol. XII, pp. 385-478. Gives a catalogue of the fossils of the Marshall group and its equivalents in the States where it has been recognized, including Indiana.
1895. WINCHELL, N. H., AND SCHUCHERT, C. Sponges Graptolites and Corals from the Lower Silurian of Minnesota. Geol. of Minn., Vol. 3, Pt. 1, pp. 55-95, pls. F. and G. Describes and figures some corals from Indiana—*Streptelasma rusticum* and *Protarea vetusta*.
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