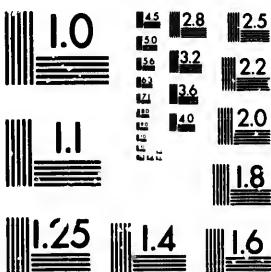
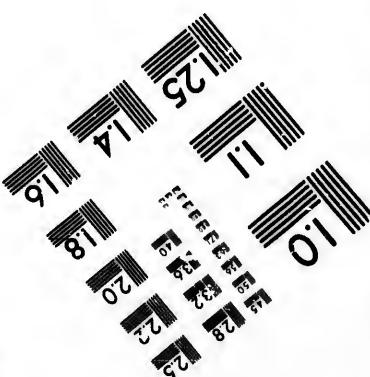
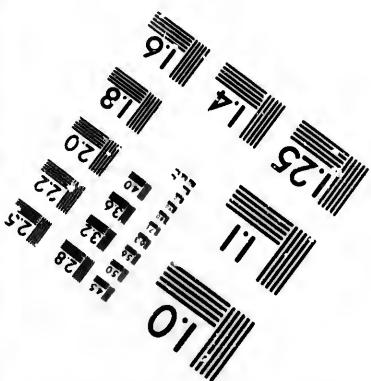
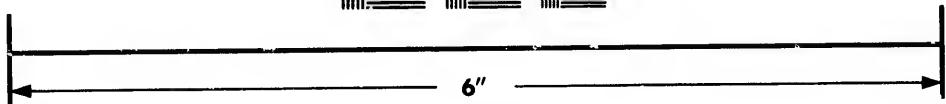


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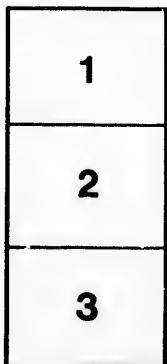
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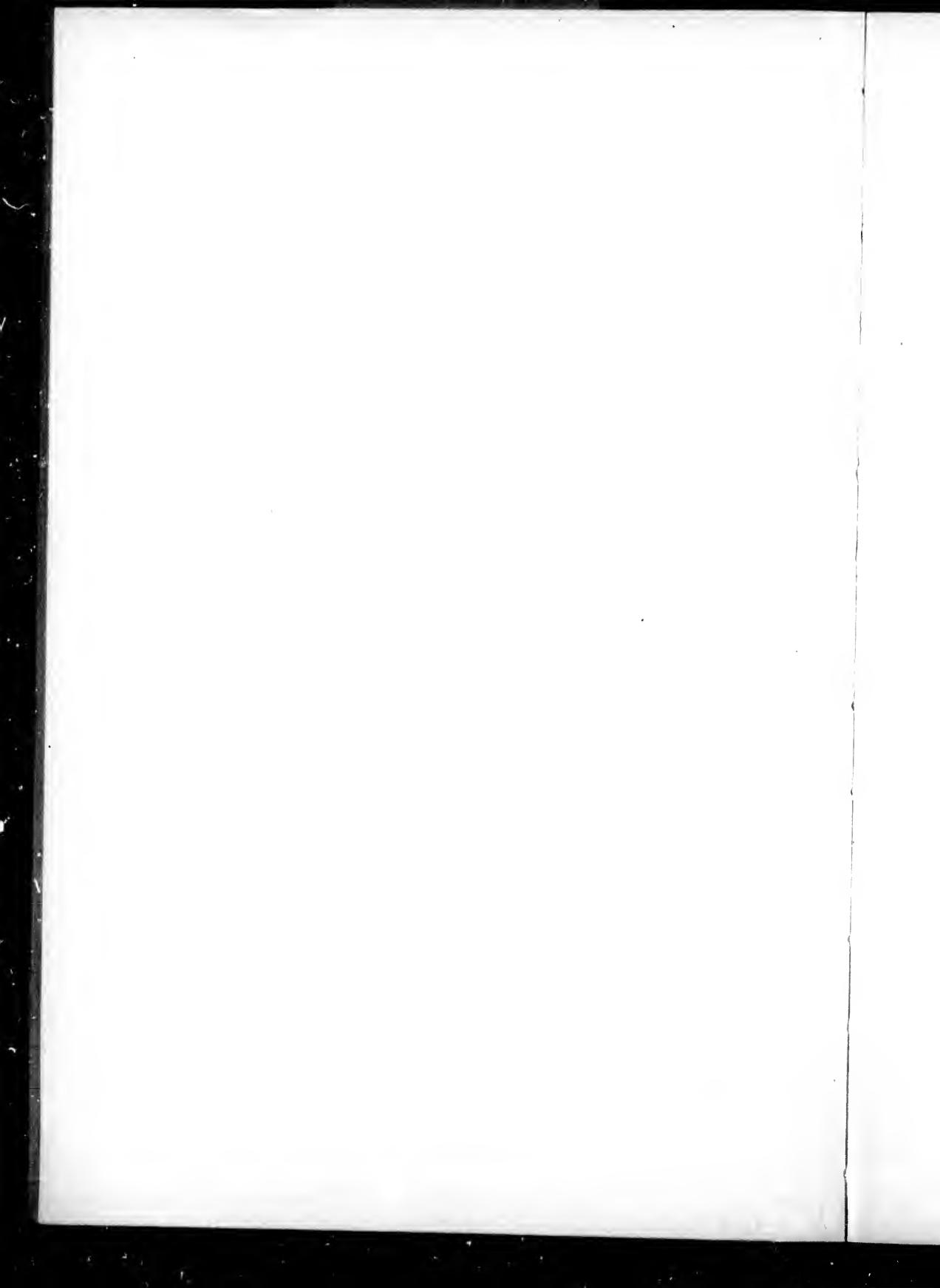
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A CATALOGUE
OF THE
FOSSILS OF INDIANA,

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.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.						
	CINCINNATI.	CLINTON.	NIAGARA AND WATER LINE.	CORNFEROUS AND HAMILTON.	NEW ALBANY SHALE.	KNOBSTONE AND ROCKFORD LIMESTONE.	BURLINGTON AND KEEKUK.	WASAW AND ST. LOUIS.	KASKASKIA.	MANSFIELD.	COAL MEASURES.	DRIFT.
PROTOZOA.												
* <i>Endothyra baileyi</i> Hall. (<i>Rotalia baileyi</i>).....												
Gosport, Greenastle, Owen County and Harrison County (Hall).												
* <i>Fusilina cylindrica</i> Fischer.....												
Lodi (C. A. White), Harrison County.												
* <i>Rotalia baileyi</i>												
* see <i>Endothyra baileyi</i> .												
<i>Moelleria greenii</i> Ulrich.....												
Falls of the Ohio (E. O. Ulrich).												
COELENTERATA.												
<i>Aceratula in duridsoni</i> E. & H., 11.....												
Jeffersonville (White).												
* <i>Aerophyllum ovicidense</i> Billings, 12.....												
Falls of the Ohio (W. J. Davis).												
* <i>Alveolites goldfussi</i> Billings, 11.....												
Louisville, Ky. (W. J. Davis), Delphi.												
<i>Alveolites indienensis</i> Hall, 11.....												
Delaware County (Phinney).												
<i>Alveolites labiosus</i> Billings.....												
Falls of the Ohio (Rominger).												
* <i>Alveolites megalostoma</i> Winch.....												
Falls of the Ohio (Rominger).												
<i>Alveolites squamulosus</i> Billings.....												
Falls of the Ohio (W. J. Davis).												
<i>Amplexix cinctulus</i> Miller, 18.....					X							
St. Paul.												
* <i>Amplexix coralloides</i> Sow.....												
Lanesville.												
<i>Amplexix fragiles</i> White & St. John.....												
Crawfordsville, Providence, and Harrison County.												
<i>Amplexix (?) 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.

CINCINNATI.	ORDOVICIAN.	CARBONIFEROUS.				QUAVER-NARY.
		SILURIAN.	DEVONIAN.	CORNIFEROUS AND HAMILTON.	NEW ALBANY SHALE.	
<i>*Amplexus shumardi</i> Milne E. Louisville, Ky., and Charlestown (W. J. Davis).		Clinton.			Knobstone and Rockford Limestone.	
<i>*Amplexus yandelli</i> Milne E., 11. Falls of the Ohio, Madison (Rominger, Cornett).		Niagara and Water Lime.	X	Burlington and Keokuk.		
<i>Astraeospongia hamiltonensis</i> M. & W. Clark County.			X	Warsaw and St. Louis.		
<i>Astylosporina burra</i> Hall, 11 Waldrön.		X		Xuskaskin.		
<i>Astylosporina imbricato-articulata</i> F. Roem. 11 Waldrön.		X		Mansfield.		
<i>Astylosporina praemorsa</i> Hall, 11 Waldrön.		X		Coal Measures.		
<i>Astylosporina praemorsa</i> var. <i>nuxmoschata</i> Hall, 11 Waldrön.		X		Drift.		
<i>Astylosporina stellatum—sulcata</i> Roem. Waldrön.		X				
<i>Aulacophyllum convergens</i> Hall, 12 Falls of the Ohio and Clark County.			X			
<i>Aulacophyllum cruciforme</i> Hall, 12 Falls of the Ohio.			X			
<i>Aulacophyllum insigne</i> Falls of the Ohio (W. J. Davis).			X			
<i>Aulacophyllum pinatum</i> Hall, 12 Falls of the Ohio.			X			
<i>Aulacophyllum poculum</i> Hall, 12 Falls of the Ohio.			X			
<i>Aulacophyllum praecipuum</i> Hall, 12 Falls of the Ohio.			X			
<i>Aulacophyllum princeps</i> Hall, 12 Falls of the Ohio.			X			
<i>Aulacophyllum prateriforme</i> Hall, 12 Falls of the Ohio.			X			
<i>Aulacophyllum reflexum</i> Hall, 12 Falls of the Ohio.			X			
<i>*Aulacophyllum sulcatum</i> d'Orb., 12 Louisville, Ky. (W. J. Davis).			X			
<i>Aulacophyllum tripinnatum</i> Hall, 12 Falls of the Ohio.			X			
<i>Aulacophyllum triundulatum</i> Hall, 12 Charlestown and Falls of the Ohio.			X			
<i>Autopora arachnoidea</i> Hall Franklin County, Richmond, Madison (Rominger) (W. S. T. Cornett).						
<i>Autopora cornuta</i> Falls of the Ohio (W. J. Davis).			X			
<i>Autopora edithana</i> Falls of the Ohio (W. J. Davis).			X			
<i>*Autopora gigas</i> Rominger, 8 Owon County, Crawfordsville, Green castle, Harrison County, Fordice, Lanesville, Washington County, Monroe County.			X			
<i>Autopora preciosa</i> Hall, 11 Louisville, Ky., Waldrön (James Hall) (W. J. Davis).			X			
<i>Autopora rancularii</i> Hall, 12 Indiana and Kentucky.			X			
<i>Autopora serpens</i> Goldfuß Falls of the Ohio (W. J. Davis).			X			
<i>Axophyllum rufis</i> White & St. J., 13 Newport (C. A. White).			X			
<i>Bariphyllum d'orbignyi</i> E. & H. Charlestown.			X			

	Oreocyclan	Silurian.	Devonian.	CARBONIFEROUS.	Quaternary.
	Cincinnati.	Clinton.	Niagara and Water Lane.	Orniferous and Hamilton.	New Albany Shale.
				Knobstone and Rock Gard Limestone.	Coal Measures.
<i>Baryphyllum fungulus</i> White					
Waldron (C. A. White).					
* <i>Blothrophylloides acuminatum</i> (?) Hall.		X			
Falls of the Ohio.					
<i>Blothrophylloides approximatum</i> Nich.		X			
Falls of the Ohio.					
* <i>Blothrophylloides decorticatum</i> Billings, II.					
Falls of the Ohio, Rominger (W. J. Davis).					
<i>Blothrophylloides prominulum</i> Hall, 12.					
Falls of the Ohio.					
<i>Bucanophyllum gracile</i> Ulrich					
Falls of the Ohio (Ulrich).					
<i>Calamopora goldfussi</i> d'Orb.					
Madison and Jennings County (Rominger).					
<i>Calapoezia lironica</i> Rominger.					
Madison (Rominger).					
<i>Calecoda attenuata</i> V. W. Lyon					
Louisville, Ky. (V. W. Lyon).		X			
<i>Calecoda corniculatum</i> V. W. Lyon					
Louisville, Ky. (V. W. Lyon).		X			
<i>Calecoda cori</i> V. W. Lyon					
Louisville, Ky. (V. W. Lyon).		X			
<i>Caleisphaera lemnoides</i> Knowlton					
Falls of the Ohio (Knowlton).					
<i>Camopophyllum turgorum</i> Owen, 13.					
Vanderburgh County.					X
<i>Chaetetes approximatus</i> Nicholson					
see <i>Monticulipora dalli</i> .					
<i>Chaetetes consimilis</i> Hall, II.		X			
see <i>Monotrypella consimilis</i> .					
<i>Chaetetes corticans</i> Nicholson					
see <i>Spatiopora tuberculata</i> .					
<i>Chaetetes discoidalis</i> James		X			
see <i>Amplexopora discoidalis</i> .					
<i>Chaetetes frondosa</i> d'Orb.		X			
see <i>Monticulipora frondosa</i> .					
<i>Chaetetes lycoperdon</i>		X			
see <i>Monticulipora lycoperdon</i> .					
<i>Chaetetes mammillatus</i>		X			
see <i>Monticulipora mammillatus</i> .					
* <i>Chaetetes mildeporacae</i> E. & H.					
Vanderburgh County, Newberg.					
<i>Chaetetes newberryi</i> Nich.					
see <i>Prasopora Newberryi</i> .					
<i>Chaetetes ortoni</i> Nich.					
see <i>Atactoporella ortoni</i> .					
<i>Chaetetes ponderosus</i>		X			
Falls of the Ohio (C. Rominger), Madison (Cornett).					
<i>Chaetetes pulchellus</i> Edw. & Hajne		X			
see <i>Monticulipora andrewsi</i> .					
<i>Chaetetes subpulchellus</i> Nicholson		X			
see <i>Monticulipora subpulchellus</i> .					
* <i>Chaetetes tuberculata</i>		X			
see <i>Spatiopora tuberculata</i> .					
* <i>Chonophyllum magnificum</i> Billings			X		
Charlestown Landing, Falls of the Ohio, Lo- gansport.					
* <i>Chonophyllum niagarensis</i> Hall		X			
Waldron, Falls of the Ohio (Rominger), Huntington County.					
* <i>Chonophyllum ponderosum</i> Rominger		X			
Charleston.					
Drift.					

CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
<i>Chonetes cadum</i> Hall, 12. Louisville, Ky.		X			
<i>Cladopora alpeneensis</i> Rominger Falls of the Ohio (W. J. Davis).			X		
* <i>Cladopora arctica</i> Rominger. Falls of the Ohio.			X		
<i>Cladopora billingsii</i> . Louisville, Ky. (W. J. Davis).			X		
* <i>Cladopora cryptoceras</i> Billings. Falls of the Ohio.			X		
* <i>Cladopora exaptata</i> Rominger. Falls of the Ohio (W. J. Davis).			X		
* <i>Cladopora fischeri</i> Billings. Falls of the Ohio, Charleston Landing (Rominger).			X		
<i>Cladopora imbricata</i> Rominger. Falls of the Ohio (Rominger) (Davis).			X		
<i>Cladopora iowensis</i> . Falls of the Ohio (W. J. Davis).			X		
* <i>Cladopora ladicula</i> Billings. Falls of the Ohio (W. J. Davis).			X		
* <i>Cladopora laevigata</i> Rominger. Falls of the Ohio.		X			
<i>Cladopora lichenoides</i> Rominger. Falls of the Ohio (Rominger).			X		
<i>Cladopora linearia</i> Roming., II. Shelby County.			X		
* <i>Cladopora ornata</i> Rominger. Clark County.			X		
<i>Cladopora pinguis</i> . Falls of the Ohio (W. J. Davis).			X		
<i>Cladopora pulchra</i> Rominger. Falls of the Ohio (W. J. Davis).			X		
<i>Cladopora reticulata</i> Hall, II. Louisville, Ky. (W. J. Davis), Delaware County.	X				
<i>Cladopora rimosa</i> Rominger. Falls of the Ohio (W. J. Davis).			X		
* <i>Cladopora robusta</i> Rominger. Falls of the Ohio (W. J. Davis), Falls of the Ohio (Rominger).			X		
<i>Cladopora roemeri</i> . Louisville, Ky. (W. J. Davis).			X		
<i>Cladopora sarmentosa</i> Hall, II. Waldron.	X		X		
* <i>Cladopora verticillata</i> W. & M. Louisville, Ky.	X		X		
<i>Clinophyllum conigerum</i> Rominger, 12. Falls of the Ohio.			X		
<i>Clinophyllum oecidacae</i> Billings, II see <i>Acrophyllum oecidacae</i> .					
<i>Coenites erassus</i> Rominger. Louisville (W. J. Davis).		X			
<i>Coenites laminatus</i> Hall. Louisville (W. J. Davis).	X	X			
<i>Coenites ramulosus</i> Hall. (Rominger).	X	X			
<i>Coenites verticalis</i> . Louisville, Ky. (W. J. Davis).	X	X			
<i>Coenostroma monticulifera</i> Winch. (<i>Stromatopora monticulifera</i>) Falls of the Ohio.			X		
<i>Coleophyllum pyriforme</i> Hall, 12. Falls of the Ohio (Hall).			X		

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	X	X	X	X	X	DRIFT.
<i>Columnaria inequalis</i> Hall						
Madison (Cornett);						
<i>Columnopora cribiformis</i> Nich.	X					
see <i>Calapocia cribiformis</i> .						
<i>Constellaria antheloidea</i> Hall, 11						
see <i>Stellipora antheloidea</i> .						
^a <i>Cyathophyllum arctifossae</i> Hall, 12				X		
Falls of the Ohio.						
^a <i>Cyathophyllum brevicorne</i> Rominger				X		
Falls of the Ohio (W. J. Davis).						
<i>Cyathophyllum calciculum</i>	X					
Osgood (Foerst).						
<i>Cyathophyllum cespitosum</i> Goldfuss			X			
Madison						
<i>Cyathophyllum colligatum</i>			X			
Louisville, Ky. (W. J. Davis).						
<i>Cyathophyllum coralliforme</i>			X			
Falls of the Ohio (W. J. Davis).						
^a <i>Cyathophyllum conicum</i> Milne E. II			X			
Falls of the Ohio (W. J. Davis) Shelby						
County.						
^a <i>Cyathophyllum davidi</i> Milne E. II			X			
Falls of the Ohio (W. J. Davis) Shelby						
County.						
<i>Cyathophyllum depresso</i> Hall			X			
Falls of the Ohio.						
<i>Cyathophyllum exiguum</i>			X			
Falls of the Ohio (W. J. Davis).						
^a <i>Cyathophyllum geniculatum</i> Rominger			X			
Bartholomew County.						
<i>Cyathophyllum halli</i>			X			
Falls of the Ohio (W. J. Davis).						
^a <i>Cyathophyllum houghtoni</i> Rominger			X			
Hartsville.						
<i>Cyathophyllum impositum</i> Hall			X			
Falls of the Ohio.						
<i>Cyathophyllum jucundum</i> Rominger, II			X			
Louisville, Ky. (W. J. Davis) Shelby County.						
<i>Cyathophyllum radicans</i> Rominger			X			
Charlestown (Rominger) Louisville Ky. (W.						
J. Davis).						
^a <i>Cyathophyllum robustum</i>			X			
Falls of the Ohio (W. J. Davis).						
^a <i>Cyathophyllum rugosum</i> Milne E., 12.			X			
Falls of the Ohio (Rominger) Jackson						
County, Jennings County and Madison.						
^a <i>Cyathophyllum sephioides</i> Rominger, II			X			
Louisville, Ky. (W. J. Davis), Shelby County.						
<i>Cyathophyllum toratum</i>			X			
Louisville, Ky. (W. J. Davis).						
^a <i>Cyathophyllum radiatum</i> Hall			X			
Falls of the Ohio.						
<i>Cyathophyllum vesiculosum</i> Hall			X			
Falls of the Ohio.						
<i>Cyclosporium discus</i> Miller			X			
Bunker Hill.						
^a <i>Cystiphyllum americanum</i> E. & H.		X				
Falls of the Ohio (W. J. Davis).						
<i>Cystiphyllum capuense</i>		X				
Louisville, Ky. (W. J. Davis).						
<i>Cystiphyllum grande</i>		X				
Falls of the Ohio (W. J. Davis).						
<i>Cystiphyllum greenii</i> Miller, 18.		X				
Falls of the Ohio.						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	CINN.	CLINTON.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	MANSFIELD.
* <i>Cystiphyllum nuciferae</i> Hall, 11. Louisville, Ky. (W. J. Davis), Delaware County.			X		Knobstone and Rockford Limestone.	Drift.
<i>Cystiphyllum ohioense</i> Nich.				X	Burlington and Keokuk.	
<i>Cystiphyllum pustulatum</i> Hall, 12. Falls of the Ohio.			X		Warsaw and St. Louis.	
* <i>Cystiphyllum squamosum</i> Falls of the Ohio (W. J. Davis).			X		Kaskaskia.	
<i>Cystiphyllum subacutum</i> Billings, II. Falls of the Ohio (Rominger).			X		Mansfield.	
<i>Cystiphyllum resiliensum</i> Goldf., II. Falls of the Ohio (W. J. Davis).			X		Coal Measures.	
<i>Dendrograptus chaenograptus novellus</i> Hall, 11. Walron.		X	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 proboscidea</i> . Falls of the Ohio (W. J. Davis).			X			
<i>Dictyostroma undulata</i> Nicholson Louisville, Ky. (Nicholson).		X	X			
<i>Diplotropa williamsi</i> Ulrich. Osgood (Ulrich).		X	X			
<i>Diphaphyllum adnatum</i> Hall, 12. Falls of the Ohio.		X	X			
<i>Diphaphyllum archiacii</i> Bill., 11. Louisville, Ky. (W. J. Davis) Shelby County.		X	X			
<i>Diphaphyllum gigas</i> . Falls of the Ohio (W. J. Davis).		X	X			
* <i>Diphaphyllum apertum</i> Will, 12. Falls of the Ohio.		X	X			
* <i>Diphaphyllum angustum</i> E. & H. Falls of the Ohio (Rominger).		X	X			
* <i>Diphaphyllum arundinaceum</i> Billings, 11. Logansport.		X	X			
* <i>Diphaphyllum caespitosum</i> Hall. Delphi and Grant County.	X	X	X			
* <i>Diphaphyllum horonicum</i> Billings Wabash.	X	X	X			
<i>Diphaphyllum panicum</i> . Louisville, Ky. (W. J. Davis).	X	X	X			
<i>Diphaphyllum simcoense</i> Billings, 11. Falls of the Ohio (W. J. Davis), Shelby County.	X	X	X			
* <i>Diphaphyllum stramineum</i> Billings, 12. Logansport and Falls of the Ohio.			X			
<i>Diphaphyllum strictum</i> . Falls of the Ohio (W. J. Davis and Nicholson).			X			
<i>Diphaphyllum tumidulum</i> Hall, 12. Falls of the Ohio.			X			
<i>Diphaphyllum verneuilianum</i> . Louisville, Ky. (W. J. Davis).			X			
<i>Dryopora intermedia</i> . Falls of the Ohio (W. J. Davis).			X			
<i>Dryopora nobilis</i> . Falls of the Ohio (W. J. Davis).			X			
* <i>Duncaniella borealis</i> Nicholson. Hartsville.	X	X	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 Shale.
<i>Emmonsia hemispherica</i> Troost, S.					
Carroll Co., Madison (Cornett).					
<i>Eridophyllum arundinaceum</i>					
see <i>Diphyphyllum arundinaceum</i> .					
<i>Eridophyllum dividium</i>					
see <i>Diphyphyllum dividium</i> .					
<i>Eridophyllum huroniense</i>					
see <i>Diphyphyllum huroniense</i> .					
<i>Eridophyllum rugosum</i> Edw. and Haime, 12.					
see <i>Diphyphyllum rugosum</i> .					
<i>Eridophyllum sinense</i> , 12.....					
see <i>Diphyphyllum sinense</i> .					
<i>Eridophyllum strictum</i> Edwards and Haime, 11.					
see <i>Diphyphyllum sinense</i> .					
<i>Farinella stellata</i> Hall 12 and 11	X				
Madison (Rominger).					
* <i>Favosites canadensis</i> Billings, II.			X		
Falls of the Ohio (W. J. Davis) Shelby County,					
* <i>Favosites carolinensis</i> Rominger.....			X		
Falls of the Ohio.					
* <i>Favosites clavatus</i> Rominger, 11			X		
Falls of the Ohio (Rominger) (Davis).					
* <i>Favosites cristatus</i>		X			
Louisville (Davis).					
<i>Favosites cristatus</i> var. <i>major</i> .					
Falls of the Ohio (Davis).					
<i>Favosites furcatus</i> Hall, 11.			X		
Delaware County.					
* <i>Favosites digitatus</i> Rominger.....			X		
Louisville, Ky. (Davis).					
* <i>Favosites emmonsii</i> Rominger, 12			X		
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 furcatus</i> Goldfuss, 12.		X	X		
Franklin County (Moore), Louisville (Davis)					
<i>Favosites forbesi</i>					
Louisville (Davis).					
* <i>Favosites forbesi</i> var. <i>occidentalis</i> Hall, 11		X			
Waldrön, Franklin County (Moore).					
<i>Favosites goldfussii</i>					
see <i>Calamopora goldfussii</i> .					
<i>Favosites gothicandicus</i> Lamarck, 8			X		
Madison.					
* <i>Favosites hemispherica</i> Y. and S., 12.			X		
Falls of the Ohio, Franklin County (Moore).					
<i>Favosites hispigeri</i> Milne Edwards (Rominger).		X			
* <i>Favosites hispidus</i> Rominger.....		X			
Delphi.					
<i>Favosites intertextus</i> Rominger.....			X		
Falls of the Ohio (Rominger).					
* <i>Favosites limitaris</i> Rominger, 12.			X		
Falls of the Ohio (Rominger).					
<i>Favosites maximus</i> Troost.					
Falls of the Ohio (Rominger).			X		
* <i>Favosites nigrensis</i> Hall		X			
Louisville (Davis) Waldrön, Madison, Charlestown, Wabash County, Hunting- ton County, Miami County.					
					Coal Measures.
					Drift.

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	CINCINNATI.	CLINTON.	NIAGARA AND WATER LANE.	CORNIFEROUS AND HAMILTON.	KNOBSTONE AND ROCKFORD LIMESTONE.
					BURLINGTON AND WREKLIK.
* <i>Favosites placenta</i> Rominger.					
Falls of the Ohio (Davis).			X		
* <i>Favosites pleurodictyoides</i> Nicholson.			X		
Charlestown.			X		
* <i>Favosites polymorpha</i> Goldfus, II.			X		
Madison.			X		
* <i>Favosites radiatus</i> Rominger.			X		
Falls of the Ohio, Hartsville (Davis).			X		
* <i>Favosites radiceiformis</i> Rominger.			X		
Falls of the Ohio (Davis).			X		
* <i>Favosites ramosa</i> , 8.			X		
Madison.			X		
* <i>Favosites spinigerus</i> Hall, II.			X		
Waldrön (James Hall).			X		
* <i>Favosites spongilla</i> Rominger.			X		
Louisville (Davis), St. Paul (Rominger).			X		
* <i>Favosites tuberosus</i> Rominger.			X		
Charlestown, Falls of the Ohio (Rominger).			X		
* <i>Favosites turbinatus</i> Billings.			X		
Falls of the Ohio.			X		
* <i>Favosites venustus</i> Hall, 12.			X		
Louisville (Davis).			X		
* <i>Favosites winchelli</i> Rominger.			X		
Falls of the Ohio (Rominger).			X		
* <i>Fistulipora acervulosa</i> Rominger.			X		
Falls of the Ohio.			X		
* <i>Fistulipora canadensis</i> Billings, II.			X		
* <i>Fistulipora intercellata</i> Hall.			X		
Falls of the Ohio, (Hall).			X		
* <i>Glossoptris puliformis</i> Hall.			X		
Falls of the Ohio (Hall).			X		
* <i>Hedrophyllum d'orbignyi</i> .			X		
Louisville, Ky., Clark County (W. J. Davis).			X		
* <i>Hedysites catenulatus</i> Linn., II.			X		
Franklin County (Moore), Wabash County,			X		
Carroll County, Huntington County, Os-			X		
good (Foerste).			X		
* <i>Hedysites labryrinthicus</i> Goldf.			X		
Delphi.			X		
* <i>Heliolites intertextus</i> Linn., 12.			X		
Huntington (Rominger).			X		
* <i>Heliolites megalotoma</i> McCoy, II.			X		
Louisville (W. J. Davis), Delaware County.			X		
* <i>Heliolites pyriformis</i> Guettard.			X		
Louisville (W. J. Davis).			X		
* <i>Heliolites subtuberculatus</i> McCoy.			X		
Louisville (W. J. Davis).			X		
* <i>Heliophyllum annulatum</i> Hall, 12.			X		
Scott and Clark Counties.			X		
* <i>Heliophyllum coolidum</i> Rominger, 12.			X		
Delphi.			X		
* <i>Heliophyllum compactum</i> Hall, 12.			X		
Falls of the Ohio.			X		
* <i>Heliophyllum conicum</i> Hall, 12.			X		
Falls of the Ohio.			X		
* <i>Heliophyllum denticulatum</i> Hall, 12.			X		
Falls of the Ohio.			X		
* <i>Heliophyllum distans</i> Hall, 12.			X		
Falls of the Ohio.			X		
* <i>Heliophyllum equum</i> Hall, 12.			X		
Falls of the Ohio.			X		
* <i>Heliophyllum exiguum</i> Bill., II.			X		
Falls of the Ohio, Shelby County.			X		

	CINCINNATI.	GEORGIANA	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
<i>Heliophyllum secundum</i> Hall, 12. Falls of the Ohio.			Clinton.	Niagara and Water Line.	Knobstone and Rockford Limestone.	
“ <i>Heliophyllum gemmatum</i> Hall, 12. Falls of the Ohio.				Hamilton.	Burlington and Warsaw and St. Louis.	
“ <i>Heliophyllum germiniferae</i> Hall. Falls of the Ohio.				New Albany Shale.	Kaskaskia.	
“ <i>Heliophyllum halli</i> , E. & H., 12. Falls of the Ohio.					Manfield.	
<i>Heliophyllum incrasatum</i> Hall, 12. Falls of the Ohio.						Coal Measures.
<i>Heliophyllum incipitatum</i> Hall, 12. Falls of the Ohio.						
<i>Heliophyllum latericrescens</i> Hall, 12. Falls of the Ohio.						
<i>Heliophyllum nettecathi</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 syphulus</i> Hall, 12. Charlestown.						
“ <i>Heliophyllum tenuimurale</i> Hall, 12. Charlestown, Falls of the Ohio.						
<i>Hippothoe inflata</i> Hall. see <i>Stomatopora inflata</i> .						
<i>Houghtonia hirsutica</i> Rominger. see <i>Calcareous hirsutica</i> (Rominger).						
<i>Hydrophyllum orbignyi</i> Edwd. and Haime, 8. Madison.						
<i>Intpora pectinata</i> Hall. Falls of the Ohio (Hall).						
<i>Inocaulis divericata</i> Hall, II. Waliron.						
<i>Lichenalia alternata</i> Hall. Falls of the Ohio.						
<i>Lichenalia (Odontotrypa) alveata</i> Hall. Falls of the Ohio (Hall).						
<i>Lichenalia bistrata</i> Hall. Falls of the Ohio.						
<i>Lichenalia (Selonopora) circinata</i> Hall. Falls of the Ohio.						
<i>Lichenalia (Pileotrypa) clavulata</i> Hall. see <i>Pileotrypa clavulata</i> .						
<i>Lichenalia (Selonopora) complexa</i> Hall. Falls of the Ohio (Hall).						
“ <i>Lichenalia concentrica</i> Hall, II. Waldron.						
<i>Lichenalia conulata</i> Hall. Falls of the Ohio (Hall).						
<i>Lichenalia (Pileotrypa) denticulata</i> Hall. see <i>Pileotrypa denticulata</i> .						
<i>Lichenalia (Selonopora) longispina</i> Hall. see <i>Lichenotrypa longispina</i> .						
<i>Lichenalia lunata</i> (Rominger) Hall. see <i>Buscopora 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> .						

Locality.	OBSERVATIONS.			CARBONIFEROUS.			QUATERNARY.
	SILURIAN.	DEVONIAN.	CORAL.	KNOBSTONE AND ROCK FORD LIMESTONE, BURLINGTON AND KESLER, WARWICK AND ST. LOUIS,	NEW ALBANY SHALE, VASKARIA,	MARSHFIELD, COAL MEASURES.	
<i>Lichenalia (Pilicotrypa) pyriformis</i> Hall. Falls of the Ohio. (Hall).		Clinton.					
<i>Lichenalia subcordata</i> Hall. Falls of the Ohio.		Niagara and Water Line.					
<i>Lichenalia substellata</i> Hall. Falls of the Ohio.			X				
<i>Lichenotrypa longispina</i> Hall. Falls of the Ohio (Ulrich).			X				
<i>Limaria camulosa</i> Hall. see <i>Ctenites camulosa</i> .							
* <i>Lithostrotion canum</i> , see Castletonian, S. Owen County, Putnam County, Orange County, Harrison County, Montgomery County.							
<i>Lithostrotion mammillatum</i> Herzer, 2. Harrison County.							X
* <i>Lithostrotion proliferum</i> Hall, 8.							X
Orange County, Owen County, Monroe Coun- ty, Putnam County, Harrison County.							X
<i>Lophophyllum profecum</i> Mcchesney, 13. Throughout the coal measures.							X
* <i>Lyellia americana</i> E. & H., II. Louisville (Davis).				X?			
<i>Lyellia glabra</i> . Louisville (Davis).			X	X			
* <i>Lyellia papillata</i> Rominger. Louisville (Davis).				X			
* <i>Lyellia porituba</i> Rominger. (Rominger).			X				
* <i>Michelinia clappi</i> (Milne E.) Rominger. Falls of the Ohio (Rominger).				X			
* <i>Michelinia cylindrica</i> E. & H., II. Falls of the Ohio (Davis).			X	X			
<i>Michelinia eugenae</i> White, 13. Vermillion County (C. A. White).							X
* <i>Michelinia fimbrioides</i> Billings. Falls of the Ohio (Davis).			X				
* <i>Michelinia insignis</i> Rominger. Falls of the Ohio (Rominger).				X			
<i>Monotrypelia subsquadrata</i> Ulrich. Osgood (Miller), (Ulrich).			X				
* <i>Monticula approximata</i> Nicholson, 12. Madison.			X				
<i>Monticulipora dalii</i> E. & H., 8. Madison (Cornett).			X				
<i>Monticulipora discoidea</i> James (Hall), 12.			X				
* <i>Monticulipora abrama</i> Goldfuss. North Vernon, Madison (Cornett).			X	X			
* <i>Monticulipora flisia</i> d'Orb. Richmond, Madison (James).			X				
* <i>Monticulipora frondosa</i> d'Orb., II. Madison.			X				
<i>Monticulipora gracilis</i> James (Hall).			X				
<i>Monticulipora irregularis</i> d'Orb. Hamilton County.			X				
* <i>Monticulipora jamesi</i> Nich. Madison.			X				
* <i>Monticulipora lycopédon</i> Say.			X				
<i>Monticulipora mamulata</i> d'Orb., 12.			X				

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	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	CINCINNATI.	CLINTON.	NINGARA AND WATER LINE.	CORALIFEROUS AND HAMILTON.	KNOBSTONE AND ROCKFORD LIMESTONE. BURLINGTON AND KEEKUK. WARSOW AND ST. LOUIS.	DRIFT. MANFIELD. COAL MEASURES.
* <i>Monticulipora ortoni</i> Hall.....	X					
Madison.....						
* <i>Monticulipora papillata</i> McCoy.....	X					
Richmond.....						
* <i>Monticulipora petechialis</i> Nich.....	X					
Richmond and Madison.....						
* <i>Monticulipora petropolitana</i> Pander.....	X					
Madison.....						
* <i>Monticulipora pulchella</i> E. & H.....	X					
Madison.....						
<i>Monticulipora (Flatulipora) rustica</i> Ulrich.....	X					
(James).....						
<i>Monticulipora simulatrix</i> Ulrich.....	X					
(James).....						
* <i>Monticulipora subpulchella</i> Nich.....	X					
Richmond.....						
<i>Monticulipora tuberculata</i> E. & H. (Hall), 12.....	X					
* <i>Ophyma verrucosa</i>		X				
Louisville, Ky. (W. J. Davis).....						
* <i>Palaeophyllum diraricans</i> Nich., 11.....	X					
Franklin County (Moore).....						
<i>Palaeacis cuneata</i> M. & W., 11.....					X	
Harrison County, Washington County, Spergon Hill.....						
<i>Paleacis enormis</i> M. & W., 8.....						X
Rockford, Harrison County.....						
* <i>Paleacis obtusa</i> M. & W.....					X	X
Harrison County, Lanesville.....						
* <i>Philipastrea gigas</i> Owen.....			X			
Charlestown.....						
* <i>Philipastrea verneilli</i> E. & H.....			X			
Madison, Jasper County.....						
* <i>Philipastrea yandelli</i> Rominger.....			X			
Charlestown, Falls of the Ohio (Rominger).....						
* <i>Plasmopora elegans</i>		X				
Louisville (Davis).....						
* <i>Plasmopora folia</i> Milne-Edwards.....		X				
Pauls Station, Charlestown Landing (Rominger).....						
<i>Plasmopora scita?</i> Milne-Edwards.....			X			
Pauls Station (Rominger).....						
<i>Prismopora sparsipora</i> Hall.....			X			
Falls of the Ohio (Ulrich).....						
<i>Prismopora triquetra</i> Hall.....				X		
Falls of the Ohio (Hall).....						
<i>Prudaea retusa</i> Hall, 11.....		X				
Madison (W. S. T. Cornett), Richmond (Winchell & Schuchert).....						
<i>Ptychophyllum stokesii</i>			X			
Louisville, Ky. (W. J. Davis).....						
* <i>Receptaculites elrodii</i> Miller, 18.....			X			
Hartsburg.....						
* <i>Receptaculites hemisphericus</i> Hall.....		X				
Grant County and Delphi.....						
* <i>Receptaculites vacuus</i> Hall 11.....		X				
* <i>Receptaculites subturbinatus</i> Hall, 11.....		X				
Hartsburg.....						
<i>Romingeria umbilifera</i>			X			
Falls of the Ohio (W. J. Davis).....						
<i>Sphenopterium cuneatum</i>						
see <i>Paleacis cuneatum</i>						

	Orbicularia	Silurian.	Devonian.	CARBONIFEROUS.		Quater- nary.
	Cincinnati.	Clinton. Niagara and Water Line.	Coniferous and Hamilton.	New Albany Shale.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis.	Coal Measures Drift.
<i>Sphenopterium enorme</i> M and N. <i>see Paleacis enorme.</i>						
* <i>Stellipora antithelodes</i> Hall.	X					
Madison (Cornett).						
<i>Stenopora fibrosa</i> .						
<i>see 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, II.		X				
Waldron (Hall).						
<i>Streptelasma coactatum</i> Hall, 12.			X			
Louisville, Ky.						
* <i>Streptelasma crassum</i> Hall.		X				
Richmond.						
* <i>Streptelasma cornutum</i> Hall, II.	X		X			
Madison, Richmond (Roeninger), 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, II.	X		X			
Waldron (Hall), Franklin County (Moore).						
<i>Streptelasma rusticum</i> Bill.	X					
Richmond, (Wilechell and Schuchert).						
<i>Streptelasma simplex</i> Hall, 12.			X			
Falls of the Ohio.						
* <i>Streptelasma spongiazis</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 gorbyi</i> Miller, 18.			X			
St. Paul.						
<i>Striatopora hirsutensis</i> Rominger.				X		
Falls of the Ohio (Davis).						
* <i>Striatopora lividacana</i> Billings, II.				X		
Falls of the Ohio (Rominger).						
* <i>Striatopora concentrica</i> Goldfuss.				X		
Madison (Cornett).						
* <i>Striatopora costellata</i> Hall.			X			
Logansport, Falls of the Ohio.						
* <i>Striatopora denum</i> Nich., 12.			X			
Charlestown.						
* <i>Striatopora granulata</i> Nich.				X		
Falls of the Ohio.						
* <i>Striatopora indiana</i> James.	X					
Connorsville (James).						
* <i>Striatopora mammillata</i> Nich.				X		
Clark County.						
* <i>Stromatopora monticulifera</i> W. & M.						
<i>see Coenostroma monticulifera.</i>						
* <i>Stromatopora nodulata</i> Nich., II.			X			
Shelby, Clark and Cass Counties.						

CINCINNATI.	ORDOVICIAN	SILURIAN.	DEVONIAN.	CARBONIFEROUS	QUATERNARY.
		CLINTON. Niagara and Water Lime.	CORNUFEROUS AND HAMILTON. NEW ALBANY SHALE.	KNOBSTONE AND ROCK- FORD LIMESTONE. BURLINGTON AND KEOKUK. WARSAW AND ST. LOUIS.	MANSFIELD. COAL MEASURES. DRIFT.
* <i>Stromatopora perforata</i> Nich. Cass County.			X		
* <i>Stromatopora substratiella</i> Nich. Falls of the Ohio.			X		
* <i>Stromatopora cylindrica</i> James Madison.			X		
<i>Stromatopora tuberculata</i> Nich., 11 Shelby County.					
* <i>Strombodes mamillaris</i> D. S. Owen Charlestown (Rominger).		X			
* <i>Strombodes pentagonus</i> Louisville, Ky. (W. J. Davis).		X			
<i>Strombodes pygmaeus</i> Louisville, Ky. (W. J. Davis).		X			
<i>Strombodes separatus</i> Ulrich Louisville, Ky. (Ulrich).		X			
* <i>Strombodes striatus</i> d'Orb. Indiana (Rominger).		X			
<i>Syringopora attenuata</i> , Rominger, 7 Montgomery County.			X		X
<i>Syringopora bonchardi</i> Falls of the Ohio (W. J. Davis) (Rominger).			X		
* <i>Syringopora hisingeri</i> Billings (Rominger).			X		
* <i>Syringopora maculata</i> Billings, 11 Falls of the Ohio.			X		
* <i>Syringopora multilobata</i> McChesney, 8 Washington County, Orange County, Harri- son County, Monroe County, Greencastle.				X	X
* <i>Syringopora perelegans</i> Billings, 11 and 12 Falls of the Ohio (W. J. Davis).			X		
<i>Syringopora ramulosa?</i> Goldfuss, 8 Warsaw, Greencastle, Harrison County, Monroe County.				X	X
* <i>Syringopora tabulata</i> E. & H. Madison, and Falls of the Ohio (Rominger).			X		
<i>Syringopora tenella</i> Rominger (Rominger).					
* <i>Syringopora tubiporoides</i> Y. & S. Madison (Cornett), Falls of the Ohio (W. J. Davis).			X		
<i>Syringopora verticillata</i> Goldfuss, 12			X		
* <i>Tetradium fibratum</i> Safford Ripley County, Jennings County, Madison (Cornett).	X	X			
<i>Thamnopora nana</i> Hall Falls of the Ohio (Ulrich).		X			
* <i>Theca major</i> Rominger 12 Charlestown Lundine (Rominger).		X			
<i>Theca minor</i> Rominger Louisville (Rominger).		X			
* <i>Theca ramosa</i> Rominger Falls of the Ohio (Rominger).			X		
* <i>Theca swinderniana</i> Goldfuss Louisville (Davis).		X			
<i>Thecostictites bonchardi</i> Milne E. see <i>Syringopora bonchardi</i> .					
* <i>Zaphrentis bilateralis</i> Hall Madison (Cornett).		X			
<i>Zaphrentis cascadensis</i> Milne Ed. 15 Washington County.				X	
<i>Zaphrentis celator</i> Hall, 11 Waldrum, Wabash County (James Hall).			X		

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	COAL MEASURES.	QUATERNARY.
							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 cornicula</i> Leseur.							
Falls of the Ohio, Charlestown (Rominger), Madison.							
<i>Zaphrentis cornucopia</i> , 10.							
Putnam County and Monroe County.							
<i>Zaphrentis (Amplexus) cruciforme</i> Hall, 12.							
Falls of the Ohio.							
<i>Zaphrentis cyathiformis</i> Hall, 12.							
Falls of the Ohio.							
* <i>Zaphrentis datei</i> E. and H.							
Monroe County, Putnam County, Harrison County, Owen County, Greencastle, Crawfordsville.							
* <i>Zaphrentis davisianna</i> Miller.							
Falls of the Ohio.							
<i>Zaphrentis dealinus</i> Miller.							
New Providence (Miller).							
<i>Zaphrentis deformis</i> Hall, 12.							
Charlestown.							
<i>Zaphrentis duplicita</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. Whitfield).							
<i>Zaphrentis exiguum</i> Billings.							
Falls of the Ohio.							
<i>Zaphrentis foliata</i> Hall, 12.							
Falls of the Ohio.							
<i>Zaphrentis gibsoni</i> White.							
Vermillion County (C. A. White).							
* <i>Zaphrentis gigantia</i> Rafinesque, II.							
Madison, Jennings County, Falls of the Ohio (Rominger).							
* <i>Zaphrentis herzeli</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 oralis</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 profundula</i> Hall, 12.							
Falls of the Ohio.							
* <i>Zaphrentis prolifica</i> Billings.							
Louisville, Ky. (W. J. Davis).							
<i>Zaphrentis radicans</i> .			X				
Louisville, Ky. (W. J. Davis).							

CINCINNATI.	OENOZOICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
Clinton.	Niagara and Water Line.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rock-ford Limestone. Keokuk.	Drift.
				Burlington and Warsaw and St. Louis.	
* <i>Zaphrentis rufinesque</i> E. & H., 11. Falls of the Ohio, Jennings County, Madison (W. J. Davis).			X		
<i>Zaphrentis subeompressa</i> Hall, 12. Falls of the Ohio.					
* <i>Zaphrentis spinulifera</i> Hall, 8. Harrison County, Lanesville, Recysville, Putnam County, Greencastle, and Washington County.				X	
* <i>Zaphrentis spinulosa</i> E. & H., 8. Spergen Hill (R. P. Whitfield), Montgomery County, Orange County, Bloomington and Harrison County.					
<i>Zaphrentis spiralis</i> Hall, 12. Falls of the Ohio.	X X	X			
<i>Zaphrentis spongiosa</i> Ky. (W. J. Davis).					
* <i>Zaphrentis stokesi</i> E. & H. Grant County.					
<i>Zaphrentis terebra</i> Hall, 12. Falls of the Ohio.		X			
<i>Zaphrentis torta</i> Hall, 12. Falls of the Ohio and Clark County.		X			
<i>Zaphrentis triungula</i> Hall, 12. Falls of the Ohio.		X			
<i>Zaphrentis umbilicata</i> Rominger. Louisville (Rominger).	X	X			
* <i>Zaphrentis ungulata</i> Rominger, 12. Falls of the Ohio (Rominger).		X			
<i>Zaphrentis undulata</i> E. & H. Falls of the Ohio (W. J. Davis).		X			
ECHINODERMATA.					
<i>Abrocrinus cymonius</i> Miller, 16. Washington County.				X	
<i>Actinocrinus abnormis</i> Lyon. see <i>Megistocrinus abnormis</i> .				X	
<i>Actinoerinus apassizi</i> Troost, 8. Harrison County.				X	
<i>Actinoerinus bifurbinatus</i> , 8. see <i>Eactinoerinus bifurbinatus</i> .					
<i>Actinoerinus brontae</i> Hall, 8. Harrison County.				X	
<i>Actinoerinus calyculus</i> Hall, 8. see <i>Batoerinus calyculus</i> .					
<i>Actinoerinus casedayi</i> Lyon, 8. see <i>Germaeoerinus casedayi</i> .					
<i>Actinoerinus coreyi</i> Lyon & Casseday. Washington County (L. & C.)				X	
<i>Actinoerinus gibsoni</i> M. & G. Indian Creek near Crawfordsville (Miller & Gurley).				X	
<i>Actinoerinus gouldi</i> . see <i>Dorycerinus gouldi</i> .					
<i>Actinoerinus grandis</i> Miller, 16. Washington County.				X	
<i>Actinoerinus indianensis</i> L. & C., 8. see <i>Batoerinus indianensis</i> .					
<i>Actinoerinus kentuckensis</i> Schumard. see <i>Gemaloerinus cornigerus</i> .					
<i>Actinoerinus lagunculus</i> . see <i>Batoerinus lagunculus</i> .					

Coal Measures.	Quaternary.
Drift.	

	Cincinnati.	Orovoician.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	Quater-
	Cincinnati.	Orovoician.	Clinton. Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale. Knobstone and Rock- ford Limestone. Burlington and Keokuk.	Drift.
* <i>Actinocrinus locii</i> Hall, 8. Hindostan, Monroe County, Harrison County.					x	
<i>Actinocrinus magnifica</i> Troost, 8. Harrison County.					x	
<i>Actinocrinus meeki</i> Lyon. see <i>Macrostylocrinus meeki</i> .						
<i>Actinocrinus nashvilleae</i> Troost, 8. Harrison County.					x	
* <i>Actinocrinus pernotosus</i> Hall Crawfordsville.					x	
<i>Actinocrinus ramulosus</i> Hall, 8 see <i>Eretmoerinus ramulosus</i> .			x			
<i>Actinocrinus unicornis</i> O. & S. see <i>Dorycrinus unicornis</i> .						
<i>Actinocrinus wachsmuthi</i> , 10. see <i>Batoerinus wachsmuthi</i> .						
<i>Aethocystites sculptus</i> Miller, 18 St. Paul.						
<i>Agaricocrinus americanus</i> Rominger, 15. Washington County (Gorby).					x	
<i>Agaricocrinus calyculus</i> Hall, 15 Washington County (Gorby).					x	
<i>Agaricocrinus gorbyi</i> Miller, 17 Montgomery County.					x	
<i>Agaricocrinus indianensis</i> Miller, 17 Washington County.					x	
<i>Agaricocrinus nodulosus</i> M. & W. Washington County.					x	
<i>Agaricocrinus pentagonus</i> Hall Washington County.					x	
<i>Agaricocrinus splendens</i> Miller & Gurley, 16 Crawfordsville (Miller & Gurley).					x	
<i>Agaricocrinus sprigeri</i> White, 16 and 11 Crawfordsville.					x	
<i>Agaricocrinus tuberosus</i> Troost, 8. Harrison County.					x	
* <i>Agaricocrinus wortheni</i> Hall, 8 Washington County.					x	
* <i>Axonocoerinus conicus</i> Owen & Schmid, 8. Harrison County, Orange County (Collet).					x	
<i>Axonocoerinus conoides</i> , 8 Harrison County (Collett).					x	
* <i>Axonocoerinus dactyliformis</i> Troost, 8. Harrison County (Collett).					x	
<i>Aquacrinus pentagonalis</i> Worthen, 8 Reelsville, Putnam County, Orange County, Harrison County.					x	
<i>Agelacrinus fibigeri</i> Miller Osgood and Versailles (M. & F.).	x					
<i>Agelacrinus squamosus</i> Meek & Worthen, 16 Crawfordsville and Harrison County.			x	x		
<i>Agaricocrinus splendens</i> Miller Crawfordsville.				x	x	
* <i>Agaricocrinus wortheni</i> Hall Harrison County, Washington County.			x			
<i>Allocrinus benedicti</i> Miller, 17 St. Paul.				x	x	
* <i>Alloprosthoerinus conicus</i> Cassaday & Lyon Lane'sville and Monroe County.			x		x	
<i>Ampheroerinus typus</i> Hall, 11. Walron.			x			
* <i>Amphoracrinus vininalis</i> Hall Fountain County.				x		

CINCINNATI.	ORDOVICIAN.	CARBONIFEROUS.				QUATERNARY.
		SILURIAN.	DEVONIAN.			
<i>*Ancyrocrinus bulbosus</i> Hall.....	Clinton.	Niagara and Water Line.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Coal Measures.
Falls of the Ohio.			X		Burilinton and Rockbank	Drift.
<i>Ancyrocrinus spinosus</i> Hall.....			X		Warsaw and St. Louis.	
Clark County.					Kaskaskia.	
<i>Archaeocidaris agassizi</i> Hall, 8.....					Mansfield.	
Harrison County.						
<i>Archaeocidaris keokuk</i> Hall.....						
Bono.						
<i>Archaeocidaris narwoodi</i> Hall, 8.....						
Harrison County.						
<i>Archaeocidaris wortheni</i> Hall, 8.....						
Harrison County and Orange County.						
<i>Barycrinus etrodi</i> Miller & Gurley.....						
Spergen Hill (Miller & Gurley).						
<i>Barycrinus formosa</i> M. & G.....						
Washington County (Miller & Gurley).						
<i>Barycrinus herculeus</i> M. & W., 16.....						
Crawfordsville, Harrison County.						
<i>Barycrinus hoyei</i> Hall, 8 (<i>Cyathocrinus hoyei</i>), 16.....						
Harrison County, Crawfordsville (Meek & Worthen).						
<i>Barycrinus magister</i> Hall. (<i>Cyathocrinus magister</i>), 8.....						
Harrison County, Spergen Hill & Lanesville (R. P. Whitfield).						
<i>Barycrinus pentagonus</i> Worthen, 8.....						
Harrison County and Crawfordsville.						
<i>Barycrinus vineeps</i> Miller, 16.....						
Crawfordsville.						
<i>Barycrinus sculptilis</i> Hall. (<i>Cyathocrinus sculptilis</i>).			X			
Clark County.						
<i>Barycrinus spectabilis</i> M. & W., 8.....						
Harrison County.						
<i>Barycrinus stellaris</i> Troost.....						
Crawfordsville.						
<i>Barycrinus stellifer</i> Miller, 18.....						
Harrison County.						
<i>Barycrinus tumidus</i> Hall.....						
Monroe County.						
<i>Barycrinus washingtonensis</i> Miller & Gurley, 27.....						
Washington County (Miller & Gurley).						
<i>Batoocrinus aequalis</i> Hall.....						
Smithville.						
<i>Batoocrinus agnatus</i> Miller, 17.....						
Montgomery County.						
<i>Batoocrinus urens</i> Miller & Gurley.....						
Washington County (Miller & Gurley).						
<i>Batoocrinus astericus</i> M. & W., 8.....						
Harrison County.						
<i>Batoocrinus biturbinate</i> Hall. (<i>Actinoerinus biturbinate</i>).....						
Spergen Hill, Monroe and Harrison Counties (R. P. Whitfield).						
<i>Batoocrinus cantonensis</i> Miller, 16.....						
Canton.						
<i>Batoocrinus caroli</i> Hall.....						
Lanesville.						
<i>Batoocrinus custula</i> Miller & Gurley.....						
Lanesville (Miller & Gurley).						
<i>Batoocrinus crawfordsvillensis</i> Miller, 17.....						
Crawfordsville.						
<i>Batoocrinus calyculus</i> Hall, 15.....						
Washington County.						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
<i>Batoecriinus decorus</i> Miller, 17. Spergen Hill.			Clinton.	Niagara and Water Line.	Hamilton.	
<i>Batoecriinus decrepitus</i> , 18. Montgomery County.					New Albany Shale.	
<i>Batoecriinus facetus</i> Miller, 16. Canton.				Coroniferous and Hamilton.		
* <i>Batoecriinus icoriductylus</i> Casseday, 8. Spergen Hill, Monroe County, Harrison County (R. P. Whitfield), Greencastle, Washington County.					Vinestones and Rock- ford Limestone.	
* <i>Batoecriinus indianaensis</i> Casseday & Lyon (Actinoecrinus indianaensis), 16. Crawfordsville, Harrison County, Monroe County and Washington County.					Burlington and Keokuk.	
* <i>Batoecriinus inaequalis</i> Hall, 8 Harrison County.					Warsaw and St. Louis.	
* <i>Batoecriinus irregularis</i> Casseday, 8. Spergen Hill, Monroe County, Wash- ington County, Harrison County.					Kaskaskia.	
<i>Batoecriinus jacutensis</i> Miller & Gurley, 16. Crawfordsville (Miller & Gurley).					Mansfield.	
* <i>Batoecriinus lagunculus</i> Hall (Actinoecrinus lagun- culus)						Coal Measures
Washington and Monroe counties.						Drift.
<i>Batoecriinus n. varians</i> Miller & Gurley, 16. Crawfordsville (Miller & Gurley).						
<i>Batoecriinus montgomeryensis</i> Worthen Crawfordsville (A. H. Worthen).						
* <i>Batoecriinus abundans</i> (?) Hall. Washington County.						
<i>Batoecriinus pileus</i> Miller & Gurley. Washington County (Miller & Gurley).						
<i>Batoecriinus pustillum</i> M. & W., 15. Washington County and Edwardsville.						
* <i>Batoecriinus plano-discus</i> Hall, 15. Washington County, Bono.						
* <i>Batoecriinus pyriformis</i> Schumard Washington County.						
<i>Batoecriinus saecularis</i> Miller & Gurley. Washington County (Miller & Gurley).						
<i>Batoecriinus spengensis</i> Miller, 17. Spergen Hill.						
<i>Batoecriinus wachsmuthi</i> White (Actinoecrinus wachsmuthi), 16. Crawfordsville.						
* <i>Batoecriinus whitii</i> Wachs. & Spr. Bono (Wachs. & Springer).						
<i>Calceocrinus?</i> bradleyi Meek. see <i>Deltacrinus bradleyi</i> .						
<i>Calceocrinus indigoensis</i> Miller, 17. St. Paul and Jefferson County.						
<i>Calceocrinus nodosus</i> Hall. see <i>Deltacrinus nodosus</i> .						
<i>Calceocrinus stigmatus</i> Hall, 11. see <i>Deltacrinus stigmatus</i> .						
<i>Callicrinus hechleri</i> W. & S. St. Paul (Wachs. & Spr.).						
<i>Caryocrinus ellipticus</i> Miller & Gurley. Osgood (Miller & Gurley).						
* <i>Caryocrinus ornatus</i> Say. Madison, Jennings County, Utica, Clark County and Ripley County.						
* <i>Castillocriinus bradleyi</i> M. & W., 8. Harrison County, Crawfordsville.						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Clinton.	Niagara and Water Line.			Knobstone and Rockford Limestone.	Drift.
					Burlington and Keokuk.	
<i>Catilocrinus teaneccus</i> Troost, 15. Washington County.						
<i>Catilocrinus wachsmuthi</i> M. & W. (Synbathoerinus wachsmuthi) 8 Harrison County.						
<i>Codaster americanus</i> Shumard Falls of the Ohio (Shumard).			X			
<i>Codaster attenuatus</i> Lyon Falls of the Ohio (Lyon).			X			
<i>Codaster pentulobus</i> Hall, 11 Waldrön.						
<i>Codaster pulchellus</i> Miller & Dyer, 11 Waldrön (Miller & Dyer).		X	X			
<i>Codaster pyramidatus</i> Shumard Falls of the Ohio (Shumard).			X			
<i>Cyathocrinus (Poteriocrinus) aenulus</i> Hall, 11 Waldrön.						
* <i>Cyathocrinus arboreus</i> M. & W., 16. Crawfordsville.						
<i>Cyathocrinus benedicti</i> Miller, 17. Hartsville.			X			
<i>Cyathocrinus crawfordsvillensis</i> Miller Crawfordsville (Miller).						
<i>Cyathocrinus decadactylus</i> L. & C. Washington County, Montgomery County (Lyon & Cassady).						
<i>Cyathocrinus girtyi</i> Miller, 18 Gosport, Owen County.					X	
<i>Cyathocrinus gurleyi</i> Miller, 17. Washington County.					X	
<i>Cyathocrinus harrii</i> Miller, 16. Crawfordsville (Miller).					X	
<i>Cyathocrinus hexadactylus</i> Lyon & Cassaday see <i>Vasocrinus</i> Lyon.					X	
<i>Cyathocrinus hoyei</i> Hall see <i>Barycerinus hoyei</i> .						
<i>Cyathocrinus inspiratus?</i> Lyon, 16. Crawfordsville.						
<i>Cyathocrinus lyoni</i> see <i>Vasocrinus</i> Lyon.						
<i>Cyathocrinus magister</i> Hall, 8. see <i>Barycerinus magister</i> .						
* <i>Cyathocrinus multibrachiatus</i> L. & C., 16 and 11. Washington County and Crawfordsville.				X	X	
<i>Cyathocrinus nucleus</i> Hall, 11. Waldrön (James Hall).				X		
<i>Cyathocrinus opimus</i> Miller, 16. Crawfordsville.						
<i>Cyathocrinus polyco</i> Hall, 11. Waldrön (James Hall).			X			
<i>Cyathocrinus (?) poteriium</i> M. & W., 16. Crawfordsville (Meek & Worthen).				X		
<i>Cyathocrinus sculptilis</i> Lyon see <i>Barycerinus sculptilis</i> .						
<i>Cyathocrinus signatus</i> M. & G. Washington County (Miller & Gurley).				X		
<i>Cyathocrinus tumidulus</i> M. & G. Indian Creek, near Crawfordsville (Miller & Gurley).				X		
<i>Cyathocrinus waldronensis</i> Miller & Gurley..... Hartsville (Miller & Gurley).		X				
<i>Cyclocrinus canaliculatus</i> Miller, 18..... St. Paul.		X				

Coal Measures.	QUATERNARY.				Coal Measures.
	Drift.	Cinclinati.	Ostrobothnian.	Devonian.	
<i>Cyclocorinus (?) in tigaeensis</i> Mill. & G.					
St. Paul (Miller & Gurley).					
<i>Cyphocrinus gorbyi</i> Miller, 18.					
St. Paul.					
<i>Dendrocrinus uncilla</i> Hall, 11.					
Waldron.					
* <i>Dendrocrinus polydactylus</i> Shumard (Homoerinus polydactylus)					
Richmond, Madison and Franklin Counties (Shumard).					
<i>Dichocrinus constrictus</i> M. & W., 8.					
Monroe County, Harrison County and Washington County.					
<i>Dichocrinus cornigerus</i> Shumard, 8.					
Harrison County.					
<i>Dichocrinus dichotomus</i> Hall, 15.					
Washington County.					
* <i>Dichocrinus expanseus</i> M. & W.					
Harrison County.					
* <i>Dichocrinus fucus</i> Casseday & Lyon, 16.					
Harrison County, Montgomery County, Crawfordsville (C. & L.).					
<i>Dichocrinus ligatus</i> M. & W., 8.					
Harrison County.					
<i>Dichocrinus planus</i> Meek & Worthen, 8.					
Harrison County.					
<i>Dichocrinus polydactylus</i> Casseday & Lyon, 16.					
Montgomery County (Casseday & Lyon).					
<i>Dichocrinus scutatus</i> C. & L., 10.					
Monroe County.					
<i>Dichocrinus sexlobatus</i> Shumard, 8.					
see <i>Talarocrinus sexlobatus</i> .					
* <i>Dichocrinus simplex</i> Shumard.					
Harrison County, Bloomington, Washington County, Monroe County, Spergen Hill (Whitfield).					
<i>Dichocrinus spinifera</i> , 10.					
Reelsville, Putnam County.					
<i>Dichocrinus striatus</i> O. & S., 8.					
Harrison County.					
<i>Dichocrinus stricti</i> Miller, 16.					
Bono.					
<i>Dolatocrinus amplius</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					
<i>Dolatocrinus aplatus</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					
<i>Dolatocrinus approximatus</i> (Miller & Gurley).					
Louisville, Ky. (Miller & Gurley).					
<i>Dolatocrinus argutus</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					
<i>Dolatocrinus bellulus</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					
<i>Dolatocrinus bellarugosa</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					
<i>Dolatocrinus bradleyi</i> (Calceocrinus bradleyi), 16.					
Crawfordsville (Meek).					
<i>Dolatocrinus bulbaceus</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					
<i>Dolatocrinus caelatus</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					
<i>Dolatocrinus charlestovensis</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					
<i>Dolatocrinus corporatus</i> Miller & Gurley.					
Charlestown (Miller & Gurley).					

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
<i>Dolatocrinus exornatus</i> Miller & Gurley.						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus grandis</i> Miller & Gurley.						
Louisville, Ky. (Miller & Gurley).						
<i>Dolatocrinus greeni</i> Miller & Gurley.						
Louisville, Ky. (Miller & Gurley).						
<i>Dolatocrinus indigenus</i> Miller & Gurley.						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus lucasii</i> Lyon.						
Falls of the Ohio and Silver Creek, Clark County (Lyon).						
<i>Dolatocrinus lineolatus</i> Miller & Gurley.						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus magnificus</i> Miller & Gurley.						
Falls of the Ohio (Miller & Gurley).						
<i>Dolatocrinus marshi</i> Lyon.						
Falls of the Ohio and Charlestown.						
<i>Dolatocrinus neglectus</i> Miller & Gurley.						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus nodosus</i> Miller & Gurley.						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus ornatus</i> var. <i>asperatus</i> (Miller & Gurley).						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus pulchellus</i> (Miller & Gurley).						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus saundersi</i> Miller & Gurley.						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus subcrysma</i> Miller & Gurley.						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus spinosus</i> Miller & Gurley.						
Charlestown (Miller & Gurley).						
<i>Dolatocrinus stellaris</i> Miller & Gurley.						
Louisville, Ky. (Miller & Gurley).						
<i>Dol. oerinus stigmatus</i> Hall (<i>Actinocrinus stigmatus</i>)						
Waldron (J. Hall).						
* <i>Dorycerinus gouldi</i> Hall (<i>Actinocrinus gouldi</i>)						
Monroe County.						
* <i>Dorycerinus unicornis</i> O. & S. (<i>Actinocrinus unicornis</i>)						
Washington County.						
<i>Ectenocrinus simplex</i> Hall.			X			
Madison.						
<i>Elentherocrinus cassedayi</i> Y. & S.						
Clark County.						
<i>Emperocrinus indigenus</i> Miller & Gurley.			X			
St. Paul (Miller & Gurley).						
<i>Eretmoocrinus adulitus</i> Wachs. & Spr.						
Canton and Edwardsville (Wachs. & Spr.).						
<i>Eretmoocrinus intermedius</i> Wachs. & Spr.						
Bono (Wachs. & Spr.).						
<i>Eretmoocrinus originarius</i> Wachs. & Spr.			X			
Bono (Wach. & Springer).						
* <i>Eretmoocrinus rauulosus</i> Hall (<i>Actinocrinus rauulosus</i>)						
Montgomery and Harrison Counties.						
<i>Eretmoocrinus praegracilis</i> Miller, 18.						
Washington County.						
* <i>Eucalyptocrinus caelatus</i> Hall, 11.			X			
Utica, Clark County, Waldron (James Hall).						
<i>Eucalyptocrinus constrictus</i> Hall, 11.			X			
Waldron.						
						Coal Measures.

U.S. Mansfield.	Coal Measures. Drift.	QUATER- NARY.	ORDOVICIAN.	SILU- RIAN.	DEVON- IAN.	CARBONIFEROUS.	QUATER- NARY. Mansfield.	Coal Measures. Drift.
			Cincinnati.	Clinton. Niagara and Water Lime.	Corniferous and Hamilton. New Albany Shale.	Knobstone and Rock- ford Limestone. Keokuk. Waukegan and St. Louis.	Kaskaskia.	
			* <i>Eucalyptocrinus crassus</i> Hall, 11. Miami County, Waldron (James Hall).					
			<i>Eucalyptocrinus ellipticus</i> Miller, 17. Hartsville.					
			* <i>Eucalyptocrinus elrodi</i> Miller, 17. Hartsville, Waldron (Gorby).					
			* <i>Eucalyptocrinus orulus</i> Hall, 11. Waldron (James Hall).					
			* <i>Eucalyptocrinus splendidus</i> Troost. Charlestown.					
			<i>Eucalyptocrinus subglobosus</i> Miller, 17. Hartsville.					
			<i>Eucalyptocrinus tuberculatus</i> Miller & Dyer. Waldron (Miller & Dyer).					
			* <i>Eupachyterius boydii</i> (Meek & Worthen), 8. Harrison County.					
			<i>Evactinopora grandis</i> M. & W., 8.					
			<i>Evactinopora serrulata</i> M. & W., 8. Harrison County.					
			<i>Forbesocrinus meeki</i> Hall, 8. see <i>Taxocrinus meeki</i> .					
			<i>Forbesocrinus ratulatus</i> Hall, 8. see <i>Taxocrinus r. mulosus</i> .					
			<i>Forbesocrinus shumardanus</i> Hall, 8. see <i>Taxocrinus shumardanus</i> .					
			<i>Forbesocrinus speciosus</i> Miller, 16. Washington County.					
			<i>Forbesocrinus washingtonensis</i> Miller & Gurley. Washington County (Miller & Gurley).					
			<i>Forbesocrinus wortheni</i> Hall, 16. Spergen Hill, Harrison County, Crawfords- ville (Whitfield).					
			<i>Gazauerinus inornatus</i> Miller, 18. St. Paul.					
			<i>Gennaeocrinus cornigerus</i> L. & C. (<i>Actinoerinus</i> <i>kentuckensis</i>)					
			Clark County.					
			<i>Gilbertsoerinus greeni</i> Miller & Gurley. Charlestown (Miller & Gurley).					
			<i>Gilbertsoerinus indigenensis</i> M. & G. Charlestown (Miller & Gurley).					
			* <i>Glyptaster inornatus</i> Hall, 11. Waldron (James Hall).					
			<i>Glyptaster occidentalis</i> Hall, 11. Waldron.					
			* <i>Glyptaster occidentalis</i> var. <i>crebescens</i> Hall, 11. Waldron (James Hall).					
			<i>Glyptocrinus baeri</i> Meek. see <i>Xenocrinus baeri</i> .					
			<i>Glyptocrinus carleyi</i> Hall, 11. see <i>Mariacerinus carleyi</i> .					
			* <i>Glyptocrinus decadactylus</i> Hall. Madison (?) (Meek.).					
			* <i>Glyptocrinus dyeri</i> Meek. Madison.					
			<i>Goniasteroidocrinus lyonianus</i> M. & G. Indian Creek, near Crawfordsville (Miller & Gurley).					
			* <i>Goniasteroidocrinus tuberosus</i> L. & C., 17. Crawfordsville.					
			<i>Granatocrinus curtis</i> Shumard, 15. Washington County.					

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
<i>Granularinus fuscus</i> , 10.						
Hindostan, Monroe County.						
<i>Granularinus granulosus</i> M. & W., 10.						
Hindostan, Monroe County.						
* <i>Granularinus norwoodi</i> Owen & Shumard.						
Washington County.						
<i>Graphiorinus wachsmuthi</i> Meek & Worthen (<i>Scaphiorinus wachsmuthi</i>)						
Washington County.						
* <i>Heterorinus heterodictylus</i> Hall.						
Ripley County.						
<i>Heterorinus uncinatus</i> see <i>Logrinus suberasinus</i> .						
* <i>Holocyrtites abnormis</i> Hall.						
Madison.						
<i>Holocyrtites adipatus</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites affinis</i> Miller & Faber.						
Madison (Miller & Faber).						
<i>Holocyrtites amplius</i> Miller, 18.						
Madison (Miller).						
<i>Holocyrtites aper</i> Miller & Gurley.						
Madison (Miller & Gurley).						
<i>Holocyrtites brunnii</i> Miller.						
Jefferson County (Miller).						
<i>Holocyrtites benedicti</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites basalis</i> Miller.						
Ripley County (Miller).						
<i>Holocyrtites colletti</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites communis</i> Miller, 17.						
Jefferson County.						
* <i>Holocyrtites cylindricus</i> Hall.						
Madison.						
<i>Holocyrtites dyeri</i> Miller.						
Ripley County (Miller).						
<i>Holocyrtites elegans</i> Miller.						
Jefferson County (Miller).						
<i>Holocyrtites globosus</i> Miller.						
Jefferson County (Miller).						
<i>Holocyrtites gracilis</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites indianaensis</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites madisonensis</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites ornatissimus</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites ornatus</i> Miller.						
Jefferson County (Miller).						
* <i>Holocyrtites ornatus</i> Hall.						
Madison.						
* <i>Holocyrtites papulosa</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites parvulus</i> Miller, 17.						
Jefferson County.						
<i>Holocyrtites perplanctus</i> Miller.						
Ripley County (Miller).						
<i>Holocyrtites plenus</i> Miller.						
Jefferson County (Miller).						
<i>Holocyrtites postulatus</i> Miller.						
Walton (Miller).						
Coal Measures.						
Coal drift.						

	CINCINNATI.	ORDOVICIAN.	CARBONIFEROUS.			QUATERNARY.
			SILURIAN.	DEVONIAN.		
<i>Holocyrtites rotundus</i> Miller.					Clinton.	
Ripley County (Miller).					Niagara and Water	
<i>Holocyrtites scitulus</i> Miller, 17.					Lime.	
Jefferson County.					Corniferous and	
<i>Holocyrtites spangleri</i> Miller, 17.					Hamilton.	
Jefferson County.					New Albany Shale.	
<i>Holocyrtites sphaeroidalis</i> M. & G.					Knobstone and Rock-	
Madison (Miller & Gurley).					ford Limestone.	
<i>Holocyrtites splendens</i> M. & G.					Burlington and	
Madison (Miller & Gurley).					Keokuk.	
<i>Holocyrtites subovatus</i> Miller, 17.					Warsaw and St.	
Jefferson County.					Louis.	
<i>Holocyrtites subrotundus</i> Miller.					Kaskaskia.	
Ripley County (Miller).					Mansfield.	
<i>Holocyrtites tumidus</i> Miller.					Coal Measures.	
Ripley County (Miller).					Drift.	
<i>Holocyrtites turbinate</i> Miller.						
Osgood and Ripley County (Miller).						
<i>Holocyrtites ventricosus</i> Miller.						
Ripley County (Miller).						
<i>Holocyrtites wetherbyi</i> Miller.						
Ripley County (Miller).						
<i>Holocyrtites wykiki</i> Miller, 17.						
Jefferson County.						
<i>Homocrinus polydactylus</i> .						
see <i>Dendrocrinus polydactylus</i> .						
<i>Hydrocrinus semiger</i> M. & W., 8.						
(<i>Zancrinus armiger</i>) Harrison County.						
<i>Hydrocrinus macrospinosus</i> McCheesey.						
(<i>Zancrinus macrospinus</i>) Rusl. Creek (Mc-						
Chesney).						
<i>Hypocrinus typus</i> W. & S.						
St. Paul (Wachs. & Spr.).						
<i>Icthyocrinus clarkensis</i> Miller & Gurley.						
Clark County (Miller & Gurley).						
* <i>Icthyocrinus simplex</i> Hall.						
Waldron.						
<i>Icthyocrinus spinulosus</i> Miller & Gurley.						
Clark County (Miller & Gurley).						
<i>Icthyocrinus subangulatus</i> Hull, II.						
Waldron (James Hall).						
<i>Icthyocrinus pusillus</i> (?) Hall.						
Waldron (J. Hall).						
<i>Idiocrinus elongatus</i> W. & S.						
St. Paul (Wachs. & Spr.).						
<i>Idiocrinus suberasans</i> Meek & Worthen.	X					
<i>Heterocrinus suberasans</i> (W. S. T. Cornett).						
<i>Idiocrinus ventricosus</i> W. & S.						
St. Paul (Wachs. & Spr.).						
<i>Indocrinus punctatus</i> M. & G.						
St. Paul (Miller & Gurley).						
<i>Lamprocrinus parvus</i> Hall, II.						
Waldron.						
<i>Lecanocrinus greeni</i> Miller & Gurley.						
Levierville, Ky. (Miller & Gurley).						
* <i>Lecanocrinus pusillus</i> Hall, II.						
Waldron (James Hall).						
<i>Lepidostethes murex</i> Meek.						
Richmond (Meek).	X					
<i>Lepidostethes colletti</i> White, 16.						
Crawfordsville, Washington County, Salem					X	
and Harrison Counties (C. A. White).					X	
<i>Lepidostethes coreyi</i> M. & W., 16.						
Crawfordsville (Meek & Worthen).						

Marsfield. Coal Measures. Drift.		Quater- nary.	Cincinnatian.	Ordovician.	Silurian. Niagara and Water Line.	De- vo- nian.	Carbo- ni- fer- ous.	Quater- nary.
		Coal Measures.	Cincinnati.	Or- do- vian.	Si- lu- rian.	De- vo- nian.	Carbo- ni- fer- ous.	Coal Measures.
Marsfield.	Coal Measures.	Drift.						
			<i>Nucleocrinus greenii</i> M. & G. Louisville, Ky. (Miller & Gurley).					
			* <i>Nucleocrinus verneuilli</i> Troost (<i>Olivanites verneuilli</i>) Falls of the Ohio.		X			
			<i>Nucleocrinus venustus</i> M. & G. Louisville, Ky. (Miller & Gurley).		X			
			* <i>Oligopora daniae</i> M. & W. Lawrence County.		X			
			* <i>Oligopora nobilis</i> M. & W., 8. Harrison County and Greencastle.		X			
			<i>Olivarites angularis</i> Lyon see <i>Nucleocrinus angularis</i> .					
			<i>Olivanites verneuilli</i> Troost see <i>Nucleocrinus verneuilli</i> .					
			<i>Ollaerinus tuberosus</i> Lyon & Cass., 16. Crawfordville.					
			<i>Onychocerasper flexilis</i> M. & W., 16. Crawfordsville, Harrison County, Meek & Worthen.					
			<i>Onychocrinus cantonensis</i> Miller, 16. Canton.					
			* <i>Onychocrinus exsculptus</i> (Lyon & Casseday), 16 and 11. Washington County and Montgomery Coun- ty (L. & C.), Crawfordsville.					
			<i>Onychocrinus parvus</i> M & G. Shoals, Martin County (Miller & Gurley).					
			* <i>Onychocrinus ramulosus</i> L. & C., 16 and 11. Crawfordsville.					
			<i>Onychocrinus ulrichi</i> Miller & Gurley, 16. Crawfordsville (Miller & Gurley).					
			<i>Onychocrinus whitfieldi</i> Hall, 8. Harrison County.					
			<i>Paleaster crufordiwillensis</i> Miller. Crawfordsville (Miller).					
			<i>Paleaster speciosa</i> M. & D. Richmond (James).		X			
			<i>Paleaster wykoffi</i> M. & G. Madison (Miller & Gurley).		X			
			* <i>Pentremites burlingtonensis</i> M. & W., 8. Harrison County, Hindostau, Monroe County			X		
			* <i>Pentremites calcicinus</i> Lyon Orange County.			X		
			* <i>Pentremites cerinus</i> Hall Orange County.			X		
			* <i>Pentremites cherokee</i> Troost Orange County.			X		
			* <i>Pentremites cooidens</i> Hall, 12 and 10. Owen County, Montgomery County, Harrison County, Washington County, Greencastle, Spiegel Hill, Bloomington, Jackson Co.			X		
			<i>Pentremites globosus</i> Say, 8. Harrison County.			X		
			* <i>Pentremites godoni</i> DeFrance, 8 and 10. Reelsville, Putnam County, Harrison Coun- ty, Owen County, Clay County, Orange County, Dubois, Crawford, ?			X		
			<i>Pentremites grovesiori</i> Shumard see <i>Troostocrinus grovesiori</i> .					
			* <i>Pentremites keniuketanus</i> Hall, 12. Monroe County, Greencastle, Spiegel Hill, Bloomington, Washington County and Harrison County (Hall).			X		

CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
		Clinton.	Niagara and Water Lime.	Knobstone and Rockford Limestone.	Drift.
			Corniferous and Hamilton.	Burlington and Keokuk.	
				Warsaw and St. Louis.	
				Kaskaskia.	
			New Albany Shale.	Mansfield.	
					Coal Measures.
* <i>Pentremites lateriformis</i> Owen & Shumard, 8. Harrison County and Bedford.					
<i>Pentremites lineatus</i> Troost, 8.....					
see <i>Troostocrinus lineatus</i> .					
<i>Pentremites longicostalis</i> Hall, 15.....					
Washington County.					
* <i>Pentremites obesus</i> Lyon, 8.....					
Owen County, Clay County, Montgomery County, Harrison County.					
<i>Pentremites obliquatus</i> , 8.....					
see <i>Tricollocrinus obliquatus</i> .					
<i>Pentremites pyramidatus</i> Hall, 8.....					
Harrison County.					
* <i>Pentremites pyriformis</i> Say, 8 and 10.....					
Orange County, Reelsville, Putnam County, Montgomery County, Harrison County, Down Hill, Crawford County.					
<i>Pentremites quadrilateralis?</i> Hall? 8.....					
Harrison County.					
<i>Pentremites reinewardti</i> Troost.....					
see <i>Troostocrinus reinewardti</i> .					
<i>Pentremites robustus</i> Lyon.....					
Orange County.					
<i>Pentremites subcaudatus</i> M. & W., 8.....					
Harrison County.					
* <i>Pentremites sulcatus</i> Roemer, 8.....					
Harrison County and Orange County.					
* <i>Pentremites symmetricus</i> Hall, 8.....					
Harrison County and Orange County.					
<i>Pentremites varsovianensis</i> , 8.....					
see <i>Tricollocrinus varsovianensis</i> .					
<i>Pentremites woodmani</i> M. & W., 8.....					
see <i>Tricollocrinus woodmani</i> .					
<i>Pentremites wortieri</i> Hall, 8.....					
Harrison County, Owen County, Crawfordsville.					
<i>Pisoerinus baculus</i> Miller & Gurley.....					
St. Paul (Miller & Gurley).					
<i>Pisoerinus beneficti</i> Miller.....					
Marion, Wabash County.					
<i>Pisoerinus campana</i> Miller, 17.....					
Wabash County.					
* <i>Pisoerinus gemmiformis</i> Miller.....					
Wabash County, Madison and Osgood.					
* <i>Pisoerinus globosus</i> Ringeberg.....					
St. Paul.					
<i>Pisoerinus gorbyi</i> Miller, 17.....					
Wabash County and Marion.					
* <i>Platyerinus bonariensis</i> White.....					
Bono, Lawrence County (C. A. Whito).					
* <i>Platyerinus discordens</i> Owen & Shumard.....					
Harrison County.					
* <i>Platyerinus halli</i> Shumard.....					
Harrison County.					
* <i>Platyerinus hemisphericus</i> M. & W., 16 and 11.....					
Crawfordsville.					
* <i>Platyerinus leai</i> Lyon					
Jeffersonville.					
<i>Platyerinus todensis</i> M. & W., 15.....					
Harrison County.					
<i>Platyerinus planus</i> Owen & Shumard, 15.....					
Harrison County, Washington County.					
<i>Platyerinus saffordi</i> Troost, 8.....					
Monroe County, Greencastle.					

Fossils of Indiana.

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POTERIOCINUS.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	CINCINNATI.	CLINTON.	NIAGARA AND WATER LIME.	KNOBSTONE AND ROCKFORD LIMESTONE.	MANSFIELD.
<i>Poteriocinus subaequalis</i> W. & S., 16. Crawfordsville.					
<i>Poteriocinus subramosus</i> Miller, 16. Crawfordsville.					
<i>Poteriocinus unicus</i> H., 16. Crawfordsville.					
<i>Poteriocinus versus</i> Miller, 16. Crawfordsville.					
<i>Protaster granuliferus</i> Meek. Moore's Hill (Meek).	X				
<i>Protaster gregarius</i> M. & W., 16. Crawfordsville.				X	
<i>Rhodocrinus benedicti</i> Miller, 18. Harrison County.				X	
<i>Rhodocrinus (Lyriocrinus) melissa</i> Hall. see <i>Lyriocrinus melissa</i> .					
<i>Sabatocrienus swalloxi</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 corbetti</i> Miller, 17. Deeatur County.		X			
<i>Saccocrinus howardi</i> Miller, 18. St. Paul.		X			
<i>Saccocrinus undrosus</i> M. & G. St. Paul (Miller & Gurley).		X			
* <i>Scaphiocrinus nequalis</i> Hall, 8. Crawfordsville and Harrison County.				X	
<i>Scaphiocrinus arvorum</i> M. & G. Washington County (Miller & Gurley).				X	
<i>Scaphiocrinus bellus</i> Miller, 16. Bono.				X	
<i>Scaphiocrinus boanicus</i> Miller, 16. Bono.				X	
* <i>Scaphiocrinus coryci</i> . Crawfordsville (Meek & Worthen).				X	
* <i>Scaphiocrinus decudactylus</i> Meek & Worthen, 8. Harrison County.				X	
* <i>Scaphiocrinus depresso</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 gibsoni</i> White, 10. Bono, Lawrence County, Crawfordsville.				X	
* <i>Scaphiocrinus parlepi</i> White, 10. Crawfordsville (C. A. White).				X	
<i>Scaphiocrinus granuliferns</i> Miller, 16. Crawfordsville.				X	
<i>Scaphiocrinus graphicus</i> Millor, 16. Crawfordsville.				X	
<i>Scaphiocrinus lacunosus</i> Miller, 16. Bono.				X	
<i>Scaphiocrinus lycoides</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 martinicensis</i> M. & G. Shoals, Martin County (Miller & Gurley).					X
					Coal Measures.
					Drift.

FOSSILS OF INDIANA.

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CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.			QUATER-NARY.
				KNOBSTONE AND ROCK	BURLINGTON AND KEOKAK.	WARSAY AND ST. LONIS.	
<i>*Taxiocrinus multibrachiatius</i> L. & C., 16.....							
Crawfordsville							
<i>*Taxiocrinus multiplicatus</i> var. <i>colletti</i>							
Crawfordsville							
<i>*Taxiocrinus ramosus</i> Hall (<i>Forbesocrinus ramosus</i> , 8.).....							
Harrison County							
<i>Taxiocrinus shumardianus</i> Hall (<i>Forbesocrinus shumardianus</i> , 8.).....							
Harrison County							
<i>Taxiocrinus shumardi</i> Hall, 8.....							
Harrison County							
<i>Taxiocrinus unguis</i> Miller & Gurley.....							
Crawfordsville (Miller & Gurley).							
<i>Taxiocrinus suborbatus</i> Miller, 16.....							
Canton							
<i>Taxiocrinus splendens</i> M. & G.....							
Crawfordsville (Miller & Gurley).							
<i>Tricoloerinus obliquatus</i> Roemer (<i>Pentremites obliquatus</i>).....							
Spergen Hill, Monroe and Harrison County (R. P. Whitfield).							
<i>Tricoloerinus varsovienensis</i> Worthen (<i>Pentremites varsovienensis</i>).....							
Greencastle							
<i>Tricoloerinus woodmani</i> M. & W. (<i>Pentremites woodmani</i>), 16.....							
Washington County							
<i>Troostocrinus grossvenori</i> Shumard (<i>Pentremites grossvenori</i>).....							
Spergen Hill							
<i>Troostocrinus lineatus</i> Shumard (<i>Pentremites lineatus</i>), 8.....							
Harrison County							
<i>Troostocrinus nitidulus</i> Miller & Gurley, 16.....							
Lanesville							
<i>Troostocrinus reinwardti</i> Troost (<i>Pentremites reinwardti</i>).....							
Utica, Clark County							
<i>*Vasocrinus lyoni</i> Hall (<i>Cyathocrinus hexadactylus</i>), 16.....							
Crawfordsville (J. Hall, Lyon & Casseday).							
<i>Vasocrinus sculptus</i> Lyon.....							
Falls of the Ohio (Lyon).							
<i>Xenocrinus baeri</i> (<i>Glyptocrinus baeri</i>).....							
Richmond (Meek).							
<i>Zeacrinus armiger</i> Meek & Worthen, 8.....							
see <i>Hydreionocrinus armiger</i> .							
<i>Zeacrinus bellulus</i> M. & G.....							
Shoals, Martin County (Miller & Gurley).							
<i>Zeacrinus domerensis</i> M. & G.....							
Dover Hill (Miller & Gurley).							
<i>Zeacrinus dubius</i> Miller, 16.....							
Bono							
<i>Zeacrinus intermedius</i> Hall, 8.....							
Harrison County							
<i>*Zeacrinus maniformis</i> Y. & S.....							
Harrison County							
<i>Zeacrinus mucrospinus</i> McChesney.....							
see <i>Hydreionocrinus mucrospinus</i> .							
<i>Zeacrinus ramosus</i> Hall, 8.....							
Harrison County							
<i>Zeacrinus sulcemenis</i> M. & G.....							
Salem (Miller & Gurley).							
				Drift.			

Mansfield	Quaternary.	Quaternary.	Ordoovician.	Silurian.	Devonian.	Carboniferous.		Quaternary.
Coal Measures		Drift.	Cincinnatian.	Clinton. Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis.	Mansfield Coal Measures. Drift.
Zacrinus troostianus M. & W., 8. Harrison County.				X			X	
Zopherinus howardi Miller, 17. St. Paul.								
VERMES.								
<i>Cornulites elevata</i> Cozzens. (Cozzens).					X			
* <i>Cornulites proprius</i> Hall, II. Waldron (James Hall).				X				
<i>Ortonia minuta</i> . Madison (W. S. T. Cornett).			X					
<i>Spirorbis annulatus</i> Hall, 12. Spergen Hill, Bloomington, Harrison and Washington Counties.							X	
<i>Spirorbis annulatus</i> var. <i>nudulatus</i> . Spergen Hill (Hall).							X	
<i>Spirorbis carbonarius</i> Dawson. Newberg.				X				X
<i>Spirorbis inornatus</i> Hall, II. Waldron (James Hall).				X				
<i>Spirorbis costatus</i> Hall, 12. Spergen Hill and Lanesville.							X	
MOLLUSCOIDEA.								
BRYOZOA.								
<i>Archimedes arctica</i> (Ethridge).							X?	
* <i>Archimedes laxus</i> Hall, II and 8. Harrison County.								X
<i>Archimedes meekanus</i> Hall. Orange County and Crawfordsville.							X	X
* <i>Archimedes oregonensis</i> Hall, 16. Greencastle, Montgomery County, Crawfordsville, Owen County and Harrison County.						X	X	
* <i>Archimedes reversus</i> Hall, 16. Crawfordsville, Harrison County and Washington County.						X	X	
* <i>Archimedes nebulosus</i> Hall, 8. Harrison County.						X	X	
<i>Archimedes wortneri</i> Hall, 8. Harrison County, Orange County and Washington County.						X	X	
<i>Beatricia nodulata</i> Billings. Richmond (James).			X					
<i>Beatricia nodulosa</i> Bill. Connersville (James).			X					
<i>Buscopora dentata</i> Ulrich. sec <i>Buscopora lunata</i> , Rominger.								
<i>Buscopora lunata</i> Rominger (<i>Buscopora dentata</i>) Ulrich. Falls of the Ohio (Ulrich).								
<i>Calloporella vicinaria</i> Hall, II. Waldron.				X				
<i>Calloporella diversa</i> Hall, II. Waldron.			X					
<i>Calloporella elegantula</i> Hall, II. Osgood (Ulrich), Waldron.			X					

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton Niagara and Water Line.	Hamilton. New Albany Shale.	Knobstone and Rock- ford Limestone. Benton and Keokuk. Warsaw and St. Louis.	Manfield. Coal Measures. Drift.
<i>Callopora exsul</i> Hall, II.....
Waldron (Jas. Hall).
<i>Callopora singularis</i> Hall, II.....
Waldron (Jas. Hall).
<i>Ceramopora agellus</i> Hall, II.....
Waldron.
<i>Ceramopora confluenta</i> Hall, II.....
Waldron.
<i>Ceramopora?</i> (<i>Lichenalia</i>) <i>explanata</i> H., II.....
Waldron.
<i>Ceramopora luteola</i> Hall, II.....
Waldron.
<i>Ceramopora (Paleschara?) nothus</i> H., II.....
Waldron.
<i>Ceramopora ruripora</i> Hall, II.....
Waldron.
<i>Clathropora trondosa</i> Hall.....
Osgood, Hanover (Foerste).
<i>Cleodictya gloriosa</i> Hall, 16.....
Crawfordsville.
<i>Cleodictya?</i> <i>mohri</i> Hall, 16.....
Crawfordsville.
<i>Ctenopora semireducta</i> Hall.....
Falls of the Ohio (Ulrich).
<i>Coscinularia ciliiformis</i> var. <i>carinata</i> Hall.....
Falls of the Ohio (Hall).
* <i>Coscinium asterium</i> Prout, 8.....
Harrison County and Washington County.
<i>Coscinum elegans</i> Prout, 8.....
Washington County and Harrison County.
<i>Coscinum excurvatum</i> Prout, 8.....
Spergen Hill (R. P. Whitfield).
* <i>Coscinum excurvoides</i> Prout, 8.....
Harrison County, Edwardsville and Washington County.
<i>Coscinum keuperlingi</i> Prout, 15.....
Washington County.
* <i>Coscinum michelinii</i> Prout, 8.....
Harrison County and Monroe County.
<i>Coscinum tuberculatum</i> Prout, 8.....
Harrison County.
* <i>Coscinum wortoni</i> Prout, 8.....
Harrison County and Monroe County.
* <i>Cyclopore discordens</i> Prout.....
Lanesville.
<i>Cyloporea polymorpha</i> Prout, 8.....
Harrison County.
<i>Cystopora geniculata</i> Hall.....
Falls of the Ohio (Hall).
<i>Dictyophyton cattiliforme</i> Whitf.... see <i>Phragmodictya cattiliforme</i>
<i>Dictyophyton cylindricum</i> Whitf, 16.....
Crawfordsville (Whitfield).
<i>Discotrypa devonica</i> Ulrich.....
Falls of the Ohio (Ulrich).
<i>Ectenodictya eccentrica</i> Hall, 16.....
Crawfordsville.
<i>Eridopora minima</i> Ulrich.....
Falls of the Ohio (Ulrich).
<i>Escharopora</i> (<i>Ptilodictya</i>) <i>angusta</i> Hall, II.....
Waldron.
<i>Erectinopora grandis</i> M. & W., 8.....
Harrison County.

Coal Measures.	Quater- nary.	Cincinnati.	ORDOVICIAN.	SILU- RIAN.	DEVON- IAN.	CARBONIFEROUS.	Quater- nary.
Drift.		Clinton.	Niagara and Water Line.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rock- ford Limestone, Burlington and Keokuk.	Coal Measures.
							Drift.
		<i>Erectinopora securidiata</i> M. & W., 8. Harrison County.					
		<i>Fenestella (Unitrypa) acanthis</i> Hall. — see <i>Uniterypa</i> <i>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).			X		
		<i>Fenestella (Polypora) adnata</i> Hall. see <i>Polypora</i> <i>adnata</i> .					
		<i>Fenestella aenea</i> Hall, II. Waldron (James Hall).	X				
		<i>Fenestella umbigua</i> Hall, II. see <i>Loculipora ambigua</i> .					
		<i>Fenestella bellistrigata</i> Hall, II. Waldron.					
		<i>Fenestella bifurca</i> Ulrich. Falls of the Ohio (A. E. Ulrich).					
		<i>Fenestella bigenaria</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</i> <i>celsipora</i> var <i>minima</i> .					
		<i>Fenestella conferta</i> Hall, II. Waldron.	X				
		<i>Fenestella confertipora</i> Hall. Falls of the Ohio (Hall).					
		<i>Fenestella (Hemimrypa) cribrosa</i> Hall. Falls of the Ohio (Hall).					
		<i>Fenestella (Polypora) cultellata</i> Hall. see <i>Polypora</i> <i>cultellata</i> .					
		<i>Fenestella cultrata</i> Hall. Falls of the Ohio (Hall).					
		<i>Fenestella curvijunctura</i> Hall. Falls of the Ohio (Hall).					
		* <i>Fenestella delicta</i> Meek. Edwardsville.				X	
		<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</i> <i>fastigata</i> .					
		<i>Fenestella hemimrypa</i> Prout. Spergen Hill (R. P. Whitfield).					
		<i>Fenestella interrupta</i> Hall. Falls of the Ohio (Hall).					
		<i>Fenestella (Polypora) laevistriata</i> Hall. see <i>Polypora</i> <i>laevistriata</i> .					
		<i>Fenestella (Polypora) laevisinodata</i> Hall. Falls of the Ohio (Hall).					
		<i>Fenestella latijunctura</i> Hall. Falls of the Ohio (Hall).					
		<i>Fenestella lunulata</i> Hall. Falls of the Ohio (Hall).	X				
		* <i>Fenestella parvulipora</i> Hall, II. 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.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
Clinton.	Niagara and Water-Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Drift.
<i>Fenestella permarginata</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella pertenuis</i> Hall, II.					
Falls of the Ohio.					
<i>Fenestella plumosa</i> Prout.					
<i>see</i> <i>Hemitypea plumosa</i> .					
<i>Fenestella (Unitrypa) projecta</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella proliza</i> Hall, II.					
Waldrön.					
<i>Fenestella prisca</i> .					
Madison.					
<i>Fenestella pulchella</i> Ulrich.					
Falls of the Ohio (A. E. Ulrich).					
<i>Fenestella punctostriata</i> Hall, II.					
Waldrön (James Hall).					
<i>Fenestella (Polypora) quadrangularis</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella sculptilis</i> Ulrich.					
Falls of the Ohio (A. E. Ulrich).					
<i>Fenestella semirotunda</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella serrata</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella shumardi</i> Prout., 8.					
Harrison County.					
<i>Fenestella singularis</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella stellaris</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella (Unitrypa) stipata</i> Hall.					
<i>see</i> <i>Unitypea stipata</i> .					
<i>Fenestella (Polypora) striatopora</i> Hall.					
<i>see</i> <i>Polypora striatopora</i> .					
<i>Fenestella (Polypora) subunitans</i> Hall.					
<i>see</i> <i>Polypora subunitans</i> .					
<i>Fenestella tantalus</i> Hall, II.					
Waldrön (Jas. Hall).					
<i>Fenestella (Unitrypa) tegulata</i> Hall.					
<i>see</i> <i>Unitrypa tegulata</i> .					
<i>Fenestella tenella</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella (Unitrypa) transversa</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella variopora</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fenestella verrucosa</i> Hall.					
Falls of the Ohio (Hall).					
<i>Fistulipora hallii</i> Rominger.					
Waldrön (C. Rominger).					
<i>Fistulipora neglecta</i> Rominger.					
<i>see</i> <i>Lichenalia concentrica</i> .					
<i>Fistulipora normalis</i> Ulrich.					
Falls of the Ohio (Ulrich).					
<i>Fistulipora spongiosa</i> Rominger.					
Spergen Hill (Rominger).					
<i>Hiderella cunealis</i> Hall.					
Falls of the Ohio (Hall).					
<i>Hemitrypa plumosa</i> Prout, 15.					
(<i>Fenestella plumosa</i>) Washington County.					
<i>Idiotrypa parasitica</i> Ulrich.					
Orgood (Ulrich).					
<i>Lobophia montifera</i> Ulrich.					
Madison (James).					
				Coal Measures.	
				Quaternary.	

	Clueimatti.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
* <i>Lichenalia concentrica</i> Hall.						
(<i>Fistulipora neglecta</i>) Waldron (Rominger).						
<i>Lichenalia concentrica</i> var. <i>maculata</i> Hall.						
Waldron (James Hall).						
<i>Lichenalia concentrica</i> var. <i>paxula</i> Hall						
Waldron (James Hall).						
<i>Lichenotrypa cavernosa</i> Ulrich.						
Falls of the Ohio (Ulrich).						
<i>Lyradictya romingeri</i> Hall.						
Crawfordsville.						x
<i>Orthopora rhombifera</i> Hall.						
(<i>Trematopora orthopora rhombifera</i>). Falls of the Ohio.						
<i>Paleschara incrassata</i> Hall, II.						
Waldron (James Hall).						
<i>Paleschara maculata</i> Hall, II.						
Waldron and Wabash County (James Hall).						
<i>Paleschara ornata</i> Hall, II.						
Waldron (James Hall).						
<i>Paleschara?</i> (<i>Chonetes?</i>) <i>sphaerion</i> Hall, II.						
Waldron (James Hall).						
<i>Paleschara tuberculata</i> Prout.						x
Spiegel Hill (R. P. Whitfield).						
<i>Phractopora cristata</i> Hall.						
Falls of the Ohio (Hall).						
<i>Phractopora cristata</i> var. <i>lineata</i> Hall.						
Falls of the Ohio.						
<i>Phaenopora multifida</i> (Van Cleave) Hall.						
Hanover (Foerste).						
<i>Phragmodictya catilliformis</i> Whitfield, 16.						x
Crawfordsville.						
<i>Phragmodictya lineata</i> Hall, 16.						x
Crawfordsville.						
<i>Phragmodictya patilliformis</i> , 16.						x
Crawfordsville.						
<i>Physospongia dawsoni</i> Whitt. (<i>Uphantaenia dawsoni</i>)						x
Crawfordsville (Whitfield).						
<i>Pileotripa circulata</i> Hall.						
Falls of the Ohio (Hall).						
<i>Pileotripa denticulata</i> Hall.						
Falls of the Ohio.						
<i>Polypora adnata</i> Hall (<i>Fenestella</i> (<i>Polypora</i>) <i>adnata</i>).						
Falls of the Ohio.						
<i>Polypora blandida</i> Ulrich.						
Falls of the Ohio (Ulrich).						
<i>Polypora celsipora</i> var. <i>minima</i> Hall. (<i>Fenestella</i> (<i>Polypora</i>) <i>celsipora</i> var. <i>minima</i>).						
Falls of the Ohio (Hall).						
<i>Polypora cultellata</i> Hall (<i>Fenestella</i> (<i>Polypora</i>) <i>cultellata</i>).						
Falls of the Ohio (Ulrich).						
<i>Polypora halliana</i> Prout, 8.						x
Harrison County.						
<i>Polypora laevirostrata</i> Hall (<i>Fenestella</i> (<i>P.</i>) <i>laevirostrata</i>).						
Falls of the Ohio (James Hall).						
<i>Polypora laevinodata</i> Hall (<i>Fenestella</i> (<i>Polypora</i>) <i>laevinodata</i>).						
Falls of the Ohio (Ulrich).						
* <i>Polypora strangula</i> White.						x
Dubois Co., W. Va.						
Coal Measures.						
Drift.						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
<i>Polypora submarginata</i> Meek.						
Dubois County.						
<i>Polypora submutans</i> Hall (<i>Fenestella (P.) submutans</i>)			X			
Falls of the Ohio (Ulrich).						
<i>Polypora quadrangularis</i> Hall (<i>Fenestella (Polypora) quadrangularis</i>)						
Falls of the Ohio (Hall).						
<i>Polypora transversa</i> Ulrich.						
Falls of the Ohio (A. E. Ulrich).						
<i>Prismopora serrata</i> Meek (<i>Stictopora serrata</i>), 8.						
Harrison County.						
<i>Ptilodictya carbonaria</i> , 8.						
see <i>Stictopora carbonaria</i> .						
<i>Ptilodictya falciformis</i> Nich., 12.	X					
<i>Ptilopora prouti</i> Hall, 8.						
Harrison County.						
<i>Rhizopora verrucosa</i> Hall.	X					
Hanover (Foerste).						
<i>Sagenella elegans</i> Hall.			X			
Wabash County and Waldron (James Hall).						
<i>Scularipora scalariformis</i> Hall.						
Falls of the Ohio (Hall).						
<i>Scularipora subconica</i> Hall.						
Falls of the Ohio.						
<i>Semicrinium intraporosum</i> Ulrich.						
Falls of the Ohio (A. E. Ulrich).						
<i>Semicrinium obliquatum</i> Ulrich.						
Falls of the Ohio (A. E. Ulrich).						
<i>Semicrinium rhomboidicum</i> Prout.						
Falls of the Ohio (Prout).						
<i>Semicrinium tuberculum</i> Prout.						
Falls of the Ohio (Prout).						
<i>Stictopora carbonaria</i> Meek, 8.						
Harrison County.						
<i>Stictopora gilberti</i> (Meek) Ulrich.						
Falls of the Ohio.						
<i>Stictopora orbicula</i> Hall, 11.						
Waldrop (Hall).						
<i>Stictopora osatipora</i> Hall.						
Falls of the Ohio.						
<i>Stictopora serrata</i> Meek, 8.			X			
see <i>prismopora serrata</i> .						
<i>Stictopora similis</i> Hall, 11.						
Waldron (James Hall).						
<i>Stictopora vernicula</i> Hall.				X		
Falls of the Ohio (Hall).						
* <i>Stomatopora auloporoidea</i> Nich.						
Richmond.						
* <i>Stomatopora frondosa</i> James.						
Madison.	X					
* <i>Stomatopora inflata</i> Hall.	X					
Madison.						
<i>Stromatoceras richmondense</i> Miller.						
Richmond (Miller).			X			
* <i>Subreticulata angulata</i> Hall.						
Delaware County.						
<i>Syncladia biserialis</i> Swallow, 13.					X	
Throughout the coal measures (C. A. White).					X	
Harrison County.						
<i>Thamniscus niagarensis</i> Hall, 11.			X			
Waldron (James Hall).						
Drift.						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
						DRIFT.
<i>Trematella annulata</i> (<i>Trematopora</i> (?) <i>rematella</i>) Falls of the Ohio (Hall).						
<i>Trematopora</i> (<i>Trematella</i>) <i>annulata</i> Hall. see <i>Trematella annulata</i> .			Niagara and Water Lime.			
<i>Trematopora</i> (<i>Trematella</i>) <i>arborea</i> Hall. Falls of the Ohio (Hall).				X		
<i>Trematopora</i> (<i>Chaetetes</i>) <i>crebripora</i> Hall, II. Waldron.						
<i>Trematopora</i> <i>echinata</i> Hall, II. Waldron (James Hall).			X			
<i>Trematopora</i> <i>speculata</i> Hall, II. Waldron (James Hall).			X			
<i>Trematopora</i> (?) <i>ulifera</i> Hall, II. Waldron and Wabash County (James Hall).			X			
<i>Trematopora</i> <i>hulli</i> Ulrich. Waldron (Ulrich).			X			
<i>Trematopora</i> <i>hirundo</i> Hall. Clark County.				X		
<i>Trematopora</i> <i>infrequens</i> Hall, II. Waldron (James Hall).			X			
<i>Trematopora</i> <i>minuta</i> Hall, II. Waldron (James Hall).			X			
<i>Trematopora</i> <i>oculatum</i> Hall, II. Waldron (James Hall).			X			
<i>Trematopora</i> (<i>Orthopora</i>) <i>regularis</i> Hall. Falls of the Ohio (Hall).				X		
<i>Trematopora</i> (<i>Orthopora</i>) <i>rhombifera</i> Hall. see <i>Orthopora rhombifera</i> .						
<i>Trematopora</i> <i>spinulata</i> Hall. Waldron (James Hall).			X			
<i>Trematopora</i> <i>varia</i> Hall, II. Waldron and Wabash County (James Hall).			X			
<i>Trematopora</i> . (<i>Trachypora</i> ?) <i>macropora</i> II., II.. Waldron.			X			
<i>Trematopora</i> <i>variolata</i> Hall, II. Waldron (James Hall).			X			
<i>Trematopora</i> <i>whitfieldi</i> Ulrich. Waldron (Ulrich).			X			
<i>Unytrypa</i> <i>acaulis</i> (<i>Fenestella</i> (<i>Unytrypa</i>) <i>acantis</i>). Falls of the Ohio (Hall).				X		
<i>Unytrypa</i> <i>conferta</i> Ulrich. . Falls of the Ohio (A. E. Ulrich).			X	X		
<i>Unytrypa</i> <i>fastigata</i> Hall (<i>Fenestella</i> (<i>Unytrypa</i>) <i>fastigata</i>). Falls of the Ohio (Hall).			X	X		
<i>Unytrypa</i> <i>retrocurva</i> Ulrich. Falls of the Ohio (A. E. Ulrich).			X	X		
<i>Unytrypa</i> <i>stipata</i> Hall (<i>Fenestella</i> (<i>U.</i>) <i>stipata</i>). Falls of the Ohio (Hall).			X	X		
<i>Unytrypa</i> <i>tegula-ta</i> Hall (<i>Fenestella</i> (<i>U.</i>) <i>tegulata</i>). Falls of the Ohio (Hall).			X	X		
<i>Upkanteria</i> <i>dawsoni</i> Whitt. see <i>Physiospongia</i> <i>dawsoni</i> .						
†BRACHIOPODA.						
<i>Ambocalia</i> <i>umbonata</i> Conrad, II. Shelby County.				X		
<i>Anastrophia</i> <i>internasus</i> Hall, II. Waldron (James Hall).			X			
<i>Anastrophia</i> <i>verneuilii</i> Hall. Waldron.			X			

†The author regrets that he has been unable to adopt in the present list the revised nomenclature of the Brachiopoda 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.

	Ohioovian	CARBONIFEROUS.				Quater- nary.
		Cincinnati.	SILU- RIAN.	DEVON- IAN.		
<i>Athyris ambiguus</i> Sowerby, 8 and 10.		Clinton.	Niagaran and Water Lime.			
Orange County, Owen County, Putnam County, Montgomery County.			Corniferous and Hamilton.			
<i>Athyris denota</i> H. & C.				New Albany Shale.		
Washington County (Hall & Clark).				Knobstone and Rockford Limestone.		
* <i>Athyris hirsuta</i> Hall, 12.				Burlington and Kokark.		
Greencastle, Washington County, Bloomington, Harrison and Monroe County.				Warsaw and St. Louis.		
<i>Athyris incrassata</i> Hall, 8.				Kaskaskia.		
Harrison County.				Mansfield.		
* <i>Athyris lamellosa</i> L'Eveillé, 8.				Coal Measures.		
Harrison County, Washington County, Greencastle and Monroe County, Crawfordsville (Hall & Clark).				Drift.		
<i>Athyris planulaeatus</i> Phillips, 8.						
Warren County.						
<i>Athyris rovissi</i> Leveillé, 8.						
Harrison County, Crawfordsville and Orange County.						
* <i>Athyris subquadrata</i> Hall, 8.						
Harrison County.						
* <i>Athyris speciferaoides</i> Eaton						
Utica, Clark County and Charlestown.						
* <i>Athyris sublanceolata</i> Hall, 8.						
Greencastle, Harrison County, Reelsville and Putnam County.						
* <i>Athyris subtilis</i> Hall, 13.						
Vanderburgh County, Harrison County, Orange County, Owen County, Montgomery County, Clay County (C. A. White).						
* <i>Athyris trinotata</i> Hall (<i>Terebratula trimaculata</i>), 12.						
Greencastle, Spergen Hill, Monroe County, Harrison County, Washington County, Bloomington (Hall).						
<i>Athyris ritteri</i> Hall, II.						
Falls of the Ohio. Charlestown Ldg. (Nettleroth).						
* <i>Atrypa aperta</i> Schlotheim.						
Falls of the Ohio, Charlestown, Clark County (Nettleroth).						
<i>Atrypa cuspidata</i> .						
see <i>Trilepsia cuspidata</i> .						
<i>Atrypa ellipsoida</i> Nettleroth.						
Falls of the Ohio (Nettleroth).						
<i>Atrypa marginata</i> Dalman.						
Hanover (Foerste).						
<i>Atrypa marginata</i> var. <i>multi-striata</i> Foerste.						
Hanover (Foerste).						
* <i>Atrypa reticularis</i> Linn., II.						
Henry County, Utica, Clark County, Madison, Falls of the Ohio, Wabash County, Charlestown, Carroll County, Waldron (Hall).						
<i>Atrypa latacarginata</i> Foerste.						
Ripley County (Foerste).						
<i>Atrypa reticularis</i> var. <i>niagarensis</i> Nettleroth.						
Clark County (Nettleroth).						
* <i>Camarophoria subrigosa</i> Meek & Worthen.						
Harrison County and Crawfordsville.						
<i>Camarospira encharis</i> Hall.						
Cassa County (Hall & Clark).						
<i>Camarotochia carolina</i> Hall.						
Falls of the Ohio (Hall & Clark).						

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	CINCINNATI.	CLINTON.	NISGARA AND WATER LIME.	KNOBSTONE AND ROCKFORD LIMESTONE.	DRIFT.
<i>Derbyia crassa</i> Meek & Hayden (II. <i>crassus</i>), 8 and 13.....					
Harrison County.					
<i>Derbyia ruginosa</i> Hall & Clarke.....					
New Providence (Hall).					
<i>Dolothris acutilirata</i> Conr.....					
see <i>Orthis acutilirata</i> .					
* <i>Discina ampla</i> Hall.....					
Charlestown.					
* <i>Discina concreta</i> Shumard, 13.....					
Dubois County.					
<i>Discina doris</i> Hall.....					
Clark County (Nettleroth).					
* <i>Discina quadrata</i> Hall.....					
Watson and Charlestown (Nettleroth).					
<i>Discina sphaerica</i> Hall.....					
Charlestown.					
* <i>Discina nitida</i> Phillips, 8.....					
Harrison County? (Collett), (C. A. White).					
<i>Eichwaldia reticulata</i> Hall, 11.....					
Waldron (James Hall).					
<i>Eumetria verneuiliana</i> Hall (<i>Retzia verneuiliana</i>) 12.....					
Harrison County, Bloomington and Spergen Hill (Hall), Greencastle.					
* <i>Eumetria vera</i> Hall, 8.....					
Harrison, Montgomery and Orange Counties.					
<i>Hemipronites crenatus</i> Meek & Hayden, 13.....					
see <i>Derbyia crenata</i> .					
<i>Hemipronites crenistriatum</i> Phillips.....					
see <i>Streptorhynchus crenistriatum</i> .					
<i>Hemipronites subtenta</i> Conr.....					
see <i>Streptorhynchus subtentum</i> .					
<i>Hemipronites sulcata</i> de Verneuil.....					
see <i>Streptorhynchus sulcatum</i> .					
* <i>Leiorhynchus limatula</i> Vanuxem 6.....					
Scott County.					
* <i>Leiorhynchus quadricostatum</i> Vanuxem, 8.....					
Harrison County, New Albany, Jennings County, Scott County (Whitfield) (Nettleroth).					
* <i>Leptacina sejuncta</i> Sowerby? (Foerste).....					
Ripley County, Madison, Richmond, etc. (Cornett).					
<i>Leptaena transversalis?</i> Wahlenberg, 6.....	x	x			
Madison.					
<i>Leptaena transversalis</i> var. <i>elegantula</i> Foerste.....	x	x			
Hanover (Foerste).					
<i>Lingula crawfordsvillensis</i> Gurley.....		x			
Crawfordsville (Gurley).					
<i>Lingula gibba</i> Hall, II.....		x			
Waldron.					
<i>Lingula indianaensis</i> M. & G.....		x			
Crawfordsville (Miller & Gurley).					
* <i>Lingula spatulata</i> Vannxem.....		x			
Jennings County and New Albany.					
<i>Lingula subspatulata</i> M. & W.....		x			
Clark County.					
<i>Lingula triangulata</i> Nettleroth.....		x			
Falls of the Ohio (Nettleroth).					
<i>Lingula umbonata</i> Cox, 13.....		x			
Vermillion County (C. A. White).					
<i>Lingula rankini</i> Miller.....		x			
Versailles and Ripley County (Miller).					

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATER-NARY.
	CINCINNATI.	CLINTON.	NIAGARA AND WATER LIME.	CORNFEROUS AND HAMILTON.	NEW ALBANY SHALE.	DRIFT.
<i>Meekella striatocostata</i> Cox, 13. Vigo County.						
* <i>Meristella harkini</i> Hall				X		
Charlestown.						
* <i>Meristella nasuta</i> Hall				X		
Falls of the Ohio (Nettleroth).						
<i>Meristella rectirostra</i> Hall, 11		X				
Waldron						
<i>Meristella umbonata?</i> Billings	X					
Hanover (Foerste).						
* <i>Meristella unisulcata</i> Conrad			X			
Utica, Clark County and Falls of the Ohio (Nettleroth).						
<i>Meristina maria</i> Hall, 11			X			
Waldron (James Hall) (Nettleroth).						
* <i>Meristina nitida</i> Hall, 1		X				
Waldron and Wabash County (James Hall).						
<i>Nucleospira concava</i> Hall		X				
Utica, Clark County and Falls of the Ohio (Nettleroth).						
<i>Nucleospira indianaensis</i> Miller, 17			X			
Bunker Hill.						
* <i>Nucleospira piniformis</i> Hall, 11		X				
Waldron (James Hall).						
* <i>Orthis (Platytr.) acutilarata</i> Conr., 10	X					
Richmond, Madison, and Clarksville (Miller & White).						
<i>Orthis benedicti</i> Miller, 17			X			
Wabash County and Hartsville.						
<i>Orthis biforata</i> Schlotheim	X	X				
Hanover, Madison and Osgood (Foerste).						
* <i>Orthis biloba</i> Linn., 11		X				
Wabash County.						
* <i>Orthis borealis</i> Billings	X					
Madison.						
<i>Orthis colligrama</i> Dalman		X				
Hanover (Foerste).						
<i>Orthis (Orthis dinorthis) calligrama</i> Dalman	X					
Hanover (Foerste).						
* <i>Orthis centrota</i> Miller	X					
Madison.						
* <i>Orthis dentata</i> Pander	X					
Madison and Ripley County.						
* <i>Orthis dubia</i> Hall, 12					X	X
Harrison County, Spergen Hill, Bloomington, Greeneside, and Washington County (Hall).						
* <i>Orthis ella</i> Hall	X					
Madison.						
* <i>Orthis elegans</i> Dalman, 11		X	X			
Waldron (James Hall), Hanover (Foerste), Wabash County.						
* <i>Orthis emarginata</i> Hall	X					
Madison and Franklin County (Moore).						
<i>Orthis emarginata</i> var. <i>multisepta</i> , 6	X					
Madison.						
* <i>Orthis fissicosta</i> Hall	X					
Madison and Lawrenceburg (Miller).						
<i>Orthis goodreini</i> Nettleroth						
Falls of the Ohio (Nettleroth).						
* <i>Orthis hybrida</i> Sowerby, 11		X		X		
Waldron (James Hall).						
<i>Orthis insculpta</i> Hall, 6	X					
Madison, Franklin County (Moore).						

Cincinnati.	Orthovician.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	Coal Measures.	Drift.	QUATERNARY.
		Clinton. Niagara and Water Lime.					
			Coralliferous and Hamilton.				
				New Albany Shale.			
				Knobstone and Rock- ford Limestone.			
				Burlington and Keokuk.			
				Warsaw and St. Louis.			
				Kassaska.			
				Mansfield.			
<i>Orthis iowensis</i> Hall, 10. Charlestown.			X				
* <i>Orthis keokuk</i> Hall (<i>O. umbraculum</i>). Jackson County, Smithville and Spergen Hill (Hall).	X						
* <i>Orthis laticosta</i> Meek Madison.	X						
* <i>Orthis leucosia</i> Hall Charlestown.			X X				
* <i>Orthis liria</i> Billings Utica, Clark County (Nettleroth).			X X				
* <i>Orthis lyra</i> Eichwald Riley County, Madison and Franklin County.	X						
<i>Orthis michelina</i> L' Eveille, 8. Washington County, Harrison County, Scott County (Borden).				X X			
<i>Orthis ocellatus</i> Hall Rockford (James Hall).			X				
<i>Orthis occidentalis</i> Hall, 10. Richmond, Madison, Ripley, Madison and Franklin County (Moore).	X						
<i>Orthis pecosi</i> Marcus, 13. Vermillion County (C. A. White).							X
<i>Orthis pendula</i> Hall Scott County (Borden).				X			
<i>Orthis plicata</i> var. <i>vanuxemi</i> see <i>Spirifer vanuxemi</i> .							
* <i>Orthis plicatella</i> Hall Madison.	X						
* <i>Orthis resupinata</i> Martin Montgomery County.	X		X				
* <i>Orthis retrossa</i> Salter Madison (Meek).							X
<i>Orthis subcordata</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> .							
<i>Orthis vanuxemi</i> Hall Clark County (Hall).			X X				
<i>Pentamerella arata</i> Hall Clark County, Falls of the Ohio (Hall).			X X				
<i>Pentamerella papilionacea</i> Hall Falls of the Ohio (Nettleroth).			X				
<i>Pentamerella thunbergii</i> Nettleroth Falls of the Ohio (Nettleroth).			X				
<i>Pentamerella aratus</i> see <i>Pentamerella aratus</i> Conrad.			X				
<i>Pentamerella chicagoensis</i> Winch. & Marey Carroll County.			X				
<i>Pentamerus coletti</i> Miller, 17. Kokomo.			X				

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATER- NARY.
			CLINTON.	NIAGARA AND WATER LIME.		DRIFT.
<i>Pentamerus fornicatus</i> var., Hall, II. Waldron.					New Albany Shale.	
* <i>Pentamerus galeatus</i> Dalman.					Knobstone and Rock- ford Limestone.	
<i>Huntington</i> .					Burilinton and Keokuk.	
* <i>Pentamerus knighti</i> Sowerby.					Warsaw and St. Louis.	
Carroll County and Clark County. (Nettle- roth).					Kaskaskia.	
<i>Pentamerus l. quectus</i> Conr. *					Mansfield	
Del. hi (Conrad).					Coal Measures	
<i>Pentamerus nysius</i> Hall, II.						
Charleston and Huntington.						
* <i>Pentamerus oblongus</i> Sowerby, II.						
Huntington and Jefferson Counties and Del- aware county.						
<i>Pentamerus occidentalis</i> Hall.						
Carroll County.						
* <i>Pentamerus ventricosus</i> Hall.						
Madison.						
<i>Pholidops calcicola</i> Hall & Clark, II.						
Falls of the Ohio (Clark & Hall).						
<i>Pholidops ovalis</i> Hall, II.						
Waldr.-u. (James Hall).						
<i>Productella semiglobosa</i> Nettleroth.						
Falls of the Ohio (Nettleroth).						
* <i>Productella spinulicosta</i> Hall (<i>Productus spinu-</i> <i>licos u.</i>), II.						
Charlestown and Shelby County.						
* <i>Productella subulata</i> Hall.						
Falls of the Ohio.						
<i>Productella subcuculeata</i> Hall.						
Jeffersonville (Hall).						
<i>Productella subcuculeata</i> var. <i>cataacta</i> H. & W.						
Utica, Clark County (Nettleroth).						
* <i>Productus rugicostatus</i> Shumard.						
Lubbois County.						
<i>Productus alternatus</i> Norwood & Pratt., 8.						
Harrison County and Crawfordsville.						
<i>Productus oltonensis</i> N. & P., 8.						
Harrison County.						
* <i>Productus bicarinatus</i> Hall, 12.						
Washington County, Bloomington and Tip- pecanoe County.						
<i>Productus buckianus</i> de Koninck.						
Posey County (Norwood & Pratt).						
<i>Productus burlingtonensis</i> M. & W.						
Harrison County.						
* <i>Productus cesticinus</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.						
Sperzen 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.						

ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.			QUATERNARY.
			CINCINNATI.	CLINTON.	Niagara and Water Lime.	
<i>Rhynchonella acinus</i> var. <i>convexa</i> Foerste				X		Knobstone and Rockford Limestone.
Hanover (Foerste).						Burlington and Keokuk.
* <i>Rhynchonella acinus</i> Hall, 11.				X		Warsaw and St. Louis.
Waldron (James Hall).						Kaskaskia.
* <i>Rhynchonella capax</i> Conrad, 10.			X			Mansfield.
Ripley County, Madison, Boone County, Franklin County (Moore), Richmond and Madison (Meek).						
<i>Rhynchonella carolina</i> Hall					X	
Falls of the Ohio.						
<i>Rhynchonella colletti</i> Miller, 18.				X		
Wabash County.						
<i>Rhynchonella cuneata</i> Sow., 11.				X		
Delaware County.						
* <i>Rhynchonella dentata</i> Hall, 10.			X			
Richmond, Madison (Meek).						
<i>Rhynchonella explanata</i> McChesney.						
New Harmony (McChesney).						
<i>Rhynchonella greeniana</i> Ulrich.					X	
New Albany (Ulrich).						
* <i>Rhynchonella groenae</i> Hall, 12.						X
Spergen Hill, Bloomington (Hall), Washington County, Harrison County, Lanesville.						
* <i>Rhynchonella indianaensis</i> Hall, 11.				X		
Waldron (James Hall).						
<i>Rhynchonella kokomoensis</i> Miller, 18.				X		
Kokomo (Miller).						
<i>Rhynchonella louisvillensis</i> Nettleroth.					X	
Falls of the Ohio (Nettleroth).						
* <i>Rhynchonella maera</i> Hall, 12.						X
Washington Coun'y.						
* <i>Rhynchonella missouriensis</i> Shumard.						X
Rockford (Mee and Worthen).						
* <i>Rhynchonella mutata</i> Hall, 12.						X X
Washington County, Harrison County, Monroe County, Montgomery County, Orange County and Greenastle.						
* <i>Rhynchonella neglecta</i> Hall, 11.				X		
Waldron (Hall), Madison.						
<i>Rhynchonella (Etonia) oblonga</i> Hall.						X
Rockford (Hall).						
<i>Rhynchonella orayensis</i> , 8.						
see R. utah.						
* <i>Rhynchonella rivicula</i> Hall, 12.						X
Spergen Hill (Hall) Greencastle, Washington Co., Harrison Co. and Monroe Co.						
* <i>Rhynchonella stricklandii?</i> Sowerby, II.				X		
Wal on (James Hall) (Nettleroth).						
* <i>Rhynchonella subeumenta</i> Hall, 12.						X X
Spergen Hill and Blooming' n (Hall), Montgomery County, Orange County, Owen County, Greencastle, Crawfordsville, Quincy, Putnam County, Harrison County and Monroe County.						
<i>Rhynchonella tennesseensis</i> Roemer, 10.				X		
Waldron (White).						
<i>Rhynchonella tenuistriata</i> Nettleroth.				X		
(Nettleroth).						
<i>Rhynchonella tethys</i> Billings, 11.						
see <i>tenochitesma tethys</i> .						
* <i>Rhynchonella utah</i> Marean (R. osagensis), 13 and 8.						X
Throughout the coal measures (C. A. White), Harrison County.						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Clinton.	Niagara and Water-Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Drift
* <i>Rhynchonella ventricosa</i> Hall.....	X					
Madison.....						
* <i>Rhynchonella whitii</i> Hall, 11.....		X				
Walron (James Hall),						
<i>Rhynchonella wortheni</i> Hall, 15.....						
Washington County.....						
* <i>Rhynchonotreta cuneata</i> var. <i>americana</i> Hall, 11.....		X				
(<i>Rhynchonella cuneata</i> var. <i>americana</i>),						
(James Hall),						
* <i>Schizocrania filosa</i> Hall.....	X					
Madison.....						
* <i>Spirifer acuminata</i> Conrad 10.....			X			
Falls of the Ohio (Hall) Clark, Scott, Jefferson, Jennings and Jackson Counties (Kindle),						
* <i>Spirifer angusta</i> Hall, 11.....		X				
Charlestown and Shelby County,						
* <i>Spirifer arcuicostata</i> Hall.....			X			
Clark County, (Nettleroth),						
<i>Spirifer aperta</i> Hall, 8.....				X		
Harrison County,						
<i>Spirifer attenuatus</i> Miller.....		X				
Falls of the Ohio (Nettleroth),						
<i>Spirifer auritissima</i>						
Carroll County,						
<i>Spirifer bicostata</i> ? var. <i>petila</i> Hall, 11.....	X					
Walron,						
* <i>Spirifer bifurcata</i> Hall, 12.....				X		
Spergen Hill (Hall), Washington County,						
* <i>Spirifer biplicata</i> Hall.....				X		
Morgan County,						
<i>Spirifer brynesi</i> Nettleroth.....		X				
Clark County (Nettleroth),						
* <i>Spirifer cuneata</i> Morton, 13 and 10.....						X
Throughout the coal measures (C. A. White),						
* <i>Spirifer curta</i> Hall, 8.....			X	X		
see <i>Syringothyris carteri</i> .						
* <i>Spirifer consobrinus</i> d'Orbigny.....	X					
Falls of the Ohio,						
* <i>Spirifer crassa</i> Hisinger, 11.....	X					
Walron (James Hall), Wabash County,						
<i>Spirifer crassa</i> var. <i>simplex</i> Hall, 11.....	X					
Walron (James Hall),						
<i>Spirifer cuspidatus</i> , 7.....				X		
Owen County,						
<i>Spirifer davisi</i> Nettleroth.....		X				
Falls of the Ohio (Nettleroth),						
* <i>Spirifer divaricata</i> Hall.....	X					
Clark County and Bunker Hill (Nettleroth),						
<i>Spirifer diademaaria</i> Hall.....	X					
Falls of the Ohio (Nettleroth),						
<i>Spirifer eudora</i> Hall, 11.....	X					
Miami County, Walron (James Hall),						
* <i>Spirifer eurysternes</i> Owen, 11.....		X				
Falls of the Ohio (Hall), Charlestown (Nettleroth),						
<i>Spirifer eurysternes</i> var. <i>fornacula</i> Hall.....	X					
Falls of the Ohio (Nettleroth),						
<i>Spirifer fastigata</i> M. & W., 16.....						
see <i>S. mortoniana</i> .						
<i>Spirifer fimbriata</i> Conrad.....			X			
Clark County (Nettleroth),						
* <i>Spirifer forbesi</i> N. & P.....				X		
Gosport.						

	OEBODORIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
CINCINNATI.	CLINTON.	NIAGARA AND WATER LINE.	CORNIFEROUS AND HAMILTON.	KNOBSTONE AND ROCKFORD LIMESTONE.	MANSFIELD.
			NEW ALBANY SHALE.	BURLINGTON AND KEEKUK.	WARSAW AND ST. LOUIS.
<i>Spirifer fultoniensis</i> Worthen, 8. Harrison County.					
<i>Spirifer glabru</i> Martin, 15. Washington County.					
* <i>Spirifer gregaria</i> Clapp, 10. Falls of the Ohio (Hall), Scott County, Clark County.	X	X			
<i>Spirifera grieri</i> Hall, 11. Falls of the Ohio (Nettleroth).		X			
<i>Spirifer grimesi</i> Hall, 8. Washington County and Harrison County.				X	
<i>Spirifer hubbsi</i> Nettleroth Falls of the Ohio (Nettleroth).		X			X
<i>Spirifer incrassatus</i> , 7. Montgomery County.					X
<i>Spirifer increbescens</i> Hall, 8. Harrison County.					X
<i>Spirifer kentuckensis</i> , 7. Vanderburgh County and Owen County.					X
* <i>Spirifer keekuk</i> Hall, 16. Greencastle, Crawfordsville, Washington County, Harrison County, Quincy, Putnam County, Owen County, Scott County (Borden).			X	X	
<i>Spirifer lateralis</i> Hall, 8. Greencastle, Washington County and Harrison County.				X	
<i>Spirifer leidyi</i> N. & P., 8. Spergen Hill (R. P. Whitfield), Quincy, Putnam County, Harrison County, Owen County and Orange County.				X	X
* <i>Spirifer lineata</i> Martin, 11 and 13. Through the coal measures (C. A. White), Montgomery County and Orange County.				X	X
* <i>Spirifer logani</i> Hall, 11. Crawfordsville.			X		
<i>Spirifer macounthii</i> Nettleroth Falls of the Ohio (Nettleroth).					
<i>Spirifer monni</i> Hall. Clark County.	X	X			
<i>Spirifer marionensis</i> Schumard, 8. Harrison County (Collett), Falls of the Ohio (Nettleroth).			X		
<i>Spirifer medialis</i> Hall. Falls of the Ohio, Clark County (Nettleroth).		X			
* <i>Spirifer mortoniana</i> Miller ('sp. <i>fastigatus</i>). Crawfordsville and Harrison County (Meek & Worthen).				X	
* <i>Spirifer mucronata</i> Conrad ?. Clark County (Nettleroth).		X			
<i>Spirifer neglecta</i> Hall, 8. Greencastle, Harrison County, Edwardsville, Owen County, Monroe County and Washington County.				X	
<i>Spirifer ningarensis</i> Hall, 11. Delaware County.		X			
<i>Spirifer normandicus</i> Hall, 15. Spergen Hill (Hall), Washington County?				X	
* <i>Spirifer optimus</i> (Hall). see <i>S. rockymontana</i> . New Harmony (McChesney).					X
* <i>Spirifer oweni</i> Hall, 11. Falls of the Ohio (Hall) and Charlestown.	X				

	CINCINNATI.	ORDOVICIAN.	CARBONIFEROUS.				QUATERNARY.
			SILURIAN.	DEVONIAN.	KNOBSTONE AND ROCKFORD LIMESTONE.	BURLINGTON AND KEEUK.	
<i>Spirifer peculiaris</i> Shumard, 8. Harrison County.			Clinton.	Niagara and Water Line.		X	
<i>Spirifer (Martinia) planoconvexa</i> Shumard, 13. Throughout the coal measures (C. A. White).				Corniferous and Hamilton.			
* <i>Spirifer plena</i> Hall. Washington County.				New Albany Shale.	Knobstone and Rockford Limestone.		
* <i>Spirifer propinquus</i> Hall, 15. Washington County.					Burlington and Keeuk.		
* <i>Spirifer pseudolineata</i> Hall, 8. Greencastle, Jackson County, Edwardsville, Owen County, Harrison and Monroe Counties.					Warsaw and St. Louis.		
* <i>Spirifer radiata</i> Sowerby, 11. Waldron (James Hall), Allen County, Miami County and Waldron.		X			Kaskaskia.		
* <i>Spirifer ruricosta</i> Conrad. Clark County, Falls of the Ohio (Hall).		X			Manfield		
<i>Spirifer rockymontana</i> Marcou (Sp. opimus). New Harmony.		X			Coal Measures.		
<i>Spirifer (Curtia) rostellum</i> Hall, 8. Louisville, Ky. (Foerste), Greencastle and Harrison County and Altors.		X			Drift.		
<i>Spirifer sculptilis</i> Hall. Falls of the Ohio (Nettle, oth.).		X					
* <i>Spirifer setigera</i> Hall, 8. Wayport, Harrison County and Greencastle.				X			
<i>Spirifer segmenta</i> Hall, 11. Falls of the Ohio and Charlestown Landing (Hall), Shelby County.		X					
<i>Spirifer semiplacata</i> Hall. Rockford (James Hall).				X			
* <i>Spirifer spinosa</i> N. & P. see <i>Spiriferina spinosa</i> .				X			
<i>Spirifer suborbicularis</i> Hall, 8. Crawfordsville and Harrison County.				X	X		
<i>Spirifer subcurviformis</i> Hall, 8. Washington County and Harrison County.				X	X		
* <i>Spirifer subcupidatus</i> , 8. see "p. cuspidiformis".							
* <i>Spirifer strictiformis</i> Meek. Tippecanoe County.				X	X		
<i>Spirifer striata</i> Martin, 8. Clay County, Montgomery County, Harrison County, Crawfordsville, Owen County, Washington County and Orange County.				X	X		
* <i>Spirifer texta</i> Hall, 10. see <i>Syringothyris texta</i> .					X		
* <i>Spirifer tenuicostata</i> Hall, 8. Spergen Hill (R. P. Whitfield), Washington County, Harrison County and Orange County.					X		
* <i>Spirifer tullia</i> Hall. Falls of the Ohio.			X				
<i>Spirifer vanuxemi</i> Hall (Orthis vanuxemi). Ripley County.	X						
* <i>Spirifer varicosus</i> Hall, 11. Charlestown Landing (Hall), Falls of the Ohio (Nettlroth).		X					
<i>Spirifer (?) waldronensis</i> Miller & Dyer. Waldron (M. & D.).		X					
<i>Spiriferina kentuckensis</i> Shumard, 13. Vermillion, Vigo, Knox, Gibson, Posey, Vanderburg, Dubois and Spencer Counties (C. A. White), Harrison County.			X?		X	X	

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
<i>Spiriferina norwoodiana</i> Hall, 12. Sperge Hill.			Clinton.	Niagara and Water Lime.	Kuhstone and Rockford Limestone.	
* <i>Spiriferina spinosa</i> Norwood and Pratton (<i>Spirifer spinosa</i>), 8. Bloomington (Hall), Sperge Hill (R. P. Wh field), Harrison County.				Corniferous and Hamilton.	Burlington and Keokuk.	
<i>Spirigeria hirsuta</i> , see <i>Athyris hispata</i> .				New Albany Shale.	Warsew and St. Louis.	
<i>Stenochamus tethys</i> Billings (<i>Rhynchonella tethys</i>). Clark County and Falls of the Ohio.					Kaskaskia.	
<i>Streptorhynchus chemungensis</i> var. <i>arctostriata</i> H. Falls of the Ohio (Nettleroth).					Mansfield.	
<i>Streptorhynchus crenistriatum</i> Phillips, 8. Sperge Hill (R. P. Whithfield), Harrison County, Park County, Greenastle, Washington County, Reetsville and Putnam County.						Coal Measures.
<i>Streptorhynchus (Strophomena) elongatum</i> J. mes. (James).	x					
<i>Streptorhynchus keokuk</i> Hall, 8.					x	
Scott County (Borden), Harrison County.						
* <i>Streptorhynchus nutans</i> Meek Madison.	x					
<i>Streptorhynchus planumbonum</i> Hall (<i>Strophomena planumbonum</i>). Richmond (Meek), Madison (Hall).	x					
* <i>Streptorhynchus planocostatum</i> Hall. S. E. Indiana.	x					
<i>Streptorhynchus pectinocostatum</i> II. New Albany (Hall).					x x	
* <i>Streptorhynchus subtentum</i> Conrad (<i>Strophomena plicata</i>). Ri. humond and Madison.	x					
<i>Streptorhynchus subplanum</i> Conrad, II. Waldron (James Hall).		x				
<i>Streptorhynchus tenuis</i> Hall, II. Waldron (James Hall).		x				
* <i>Streptorhynchus umbraculum</i> Von Bueb., 12. New Providence.					x	
<i>Streptorhynchus (Strophomena) reticulatum</i> James. (James).	x					
<i>Strophodonta arcuata</i> Hall, II. Shelby County.			x			
* <i>Strophodonta concava</i> Hall. Charlestown.			x			
<i>Strophodonta dentata</i> Conrad, II. Charleston and Shelby County (Nettleroth).			x			
* <i>Strophodonta hemispherica</i> Hall. Falls of the Ohio (Hall), Clark County.			x			
* <i>Strophodonta inequistriata</i> Conrad. Falls of the Ohio (Nettleroth).			x			
<i>Strophodonta lacrea</i> Hall. Falls of the Ohio (Nettleroth).			x			
<i>Strophodonta perlana</i> Conrad. Falls of the Ohio (Nettleroth).			x			
<i>Strophodonta plicata</i> Hall. Falls of the Ohio (Nettleroth).			x			
<i>Strophodonta profunda</i> Hall, II and 16. Waldron (James Hall), Allen County.	x					
* <i>Strophodonta semisulcata</i> Hall. Waldron	x					
* <i>Strophodonta striata</i> Hall, II. Waldron (James Hall).	x					

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	X	X	X	X	X	X
<i>Strophomena alternata</i> Conrad, 10 S. E. Indiana.	X	X	Clinton.	Nigeria and Water Lime.	Knobstone and Rockford Limestone.	
<i>Strophomena alternata</i> var. <i>alternistriata</i> Hall Madison.	X			Corniferous and Hamilton.	Burlington and Keokuk.	
<i>Strophomena filitecta</i>	X			New Albany Shale.	Warsaw and St. Louis.	
Madison.					Kaskaskia.	
* <i>Strophomena fracta</i> Meek, 6.....	X				Mansfield.	
Madison.					Coal Measures	
<i>Strophomena hanoverensis</i> Foerste Hanover (Foerste).		X			Drift.	
<i>Strophomena incurvata</i> (Shepard) Ripley County (Borden).	X					
* <i>Strophomena nasuta</i> Conrad.....	X					
Madison.						
<i>Strophomena nutans</i>						
see <i>Streptorhynchus nutans</i> .						
<i>Strophomena pectinata</i> Hall.....	X					
Hanover (Foerste).						
<i>Strophomena planoconvexa</i> Hall.....						
see <i>Streptorhynchus planocconvexum</i> .						
<i>Strophomena planimunda</i> Hall, 10.....						
see <i>Streptorhynchus planimbonum</i> .						
<i>Strophomena plicata</i>						
see <i>Streptorhynchus subtentum</i> .						
* <i>Strophomena rhomboidalis</i> Wilkens, 11.....	X	X	X	X	X	
Madison. (Meek). Waldron (James Hall), Hartsville, Franklin County, Jasper County, Wabash County, Clark County (Nettleroth).						
<i>Strophomena rugosa</i> Dalman, 6.....	X	X				
Madison.						
<i>Strophomena striata</i>						
see <i>Strophodonta striata</i> .						
<i>Strophomena sulcata</i> de Verneuil Richmond (Meek), Madison.	X					
* <i>Strophomena tenuistriata</i> Sowerby Richmond.	X					
<i>Strophomena tenuis</i> Hall.....	X					
Hanover (Foerste).						
<i>Strophonella semifasciata</i> Hall, 11.....		X				
Waldron (James Hall).						
<i>Syntriosoma hemiplicata</i> Hall, 13.....					X	
Coal Measures (C. A. White).						
<i>Syringothyrida carteri</i> Hall, (?) 8.....				X		
Sp. carteri) Monroe, Harrison and Clark Counties.						
<i>Syringothyrida texta</i> Hall, 8.....						
Scott County (Borden), Borden and New Albany (Hall), Jackson County and Har- rison County.						
* <i>Terebratula borealis</i> Morton, 13.....					X X	X?
Widely distributed throughout the Coal Measures (C. A. White), Greencastle, Or- ange County, Montgomery County, Ven- derburgh County, Harrison County, Parke County and Monroe County.						
<i>Terberatula calvini</i> Hall and Whittley, 8.....			X			
Harrison County						
* <i>Terebratula formosa</i> Hall, 12.....				X		
Spergen Hill and Bloomington (Hall), Green- castle, Harrison County, Washington Coun- ty, Monroe County.						
<i>Terebratula gorbyi</i> Miller, 17.....			X			
Edwardsville.						

Cincinnati.	Orbovician.	CARBONIFEROUS.				Quater- nary.
		SILU- RIAN.	DEVON- IAN.	Corniferous and Hamilton.	New Albany Shale.	
<i>Terebratula harmonia</i> II.....		Clinton.		X	Knobstone and Rock- ford Limestone.	
Falls of the Ohio (Hall).		Niagara and Water Lime.			Burlington and Keokuk.	
* <i>Terebratula hastata</i> Sowerby, 8.....					Varsw and St. Louis.	
Owen County, Greencastle and Harrison County.					Kaskaskia.	
<i>Terebratula inornata</i> McChesney, 8.....					Mansfield.	
Harrison County.					Coal Measures	
* <i>Terebratula jacquardi</i> Hall.....			X		Drift.	
Falls of the Ohio (Nettleroth).						
* <i>Terebratula lincklaeni</i> Hall.....		X	X			
Falls of the Ohio (Nettleroth).						
<i>Terebratula romingeri</i> Hall.....		X				
Clark County (Nettleroth).						
<i>Terebratula sacculus</i> Martin, 16.....				X		
Frawfordville.						
<i>Terebratula subcuneata</i>						
see <i>Athyris trinuclea</i> .						
<i>Terebratula subtilis</i> Hall.....					X.	
see <i>Athyris subtilis</i> .						
<i>Terebratula trinuclea</i> Hall.....						
Spergen Hill (Hall), Washington County, Owen County and Greencastle.						
* <i>Terebratula turgida</i> Hall, 12.....		X	X			
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.						
<i>Trematospira matthewsoni</i> McChesney.....		X				
Madison (Matthewson).						
* <i>Trematospira nobilis</i> Hall.....			X			
Charlestown.						
<i>Triplectenia cuspidata</i> Hall (<i>Atrypa cuspidata</i>), 6.....	X					
Madison.						
<i>Triplectenia putilla</i> Hall, 11.....		X				
Waldron.						
* <i>Tridentina waldronensis</i> M. & D.....		X				
Waldron.						
* <i>Tropidoleptus carinatus</i> Conrad.....			X	X		
Scott County (Borden), Clark County (Net- tleroth).						
* <i>Whitfieldia maria</i> Hall.....		X				
Waldron.						
* <i>Zygospira headii</i> Billings.....	X		X			
Madison (W. S. T. Cornett), Madison (Meek)						
<i>Zygospira minima</i> Hall, 11.....		X				
Waldron.						
* <i>Zygospira modesta</i> Say.....	X					
Madison (W. S. T. Cornett), Richmond and Madison (Meek), Franklin County (Moore)						
* <i>Zygospira montestu</i> var. <i>cincinnatiensis</i> James.....	X					
Madison.						
MOLLUSCA.						
LAMELLIBRANCHIATA.						
<i>Actinopteria boydii</i> Conr.....				X		
Falls of the Ohio (Nettleroth) (Hall).						
* <i>Allorisma cuneatum</i> Swallow.....						
Warren County.					X	
* <i>Allorisma sinuatum</i> McChesney, 8.....						
Harrison County.						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATER-
	Clinton.	Niagara and Water Line.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Drift.
* <i>Alliscisma subcuneatum</i> Meek & H., 13 and 16. Throughout the coal measures (C. A. White)						X
* <i>Ambonychia acutirostra</i> Hall, 11 and 17. Waldron (James Hall), Wabash County.		X				
<i>Ambonychia alata</i> . see <i>Anomia odonta</i> alata.						
<i>Ambonychia amygdaloidea</i> , 6. Madison (Cornett).	X					
* <i>Ambonychia bellistrigata</i> Hall. Franklin County.	X					
* <i>Ambonychia carinata</i> Goldfuss. Madison (W. S. T. Cornett).	X					
* <i>Ambonychia radiata</i> Hall. Richmond, Madison.	X					
* <i>Amphicoelias costata</i> Meek. Huntington County.		X				
<i>Amphicoelia levigata</i> Hall, 11. Waldron (James Hall).		X				
* <i>Anatina teda</i> Hall. Rockford (Jaques Hall).		*		X		
<i>Anadontopsis? milleri</i> Meek. Versailles.	X					
* <i>Angulum cuneatum</i> Miller. Richmond (Miller).	X					
<i>Anomalodonta curva</i> M. & W., 7. Richmond (Miller).	X					
<i>Anomulodonta gigantea</i> Miller. Versailles and Richmond (Miller).	X					X
* <i>Auricella concentrica</i> McChesney, 8. Big Creek and Sullivan County.						
<i>Astartella vera</i> Hall. Coal measures (Hall).						X
* <i>Aviculopecten amplus</i> M. & W. Owen County and Edwardsville.				X		
* <i>Aviculopecten articulatus</i> Swallow. Dubois County.						X
* <i>Aviculopecten carboniferous</i> Stevens, 13. Fountain and Vermillion County and Dubois County (C. A. White).						X
* <i>Aviculopecten callotti</i> Worthen. Crawfordsville (A. H. Worthen).				X		
* <i>Aviculopecten craniostomus</i> Hall. Falls of the Ohio (Nettleroth).			X			
<i>Aviculopecten fasciulatus</i> Hall. Falls of the Ohio (Nettleroth).			X			
* <i>Aviculopecten indianensis</i> Meek & Worthen, 16. Spergen Hill (R. P. Whitfield), Harrison County and Crawfordsville, Edwardsville, Greenlea tile.				X	X	
* <i>Aviculopecten intercostalis</i> Winchell. Charlestown.		X				
* <i>Aviculopecten oblongus</i> M. & W. Edwardsville.				X		
<i>Aviculopecten occidentalis</i> Shumard, 13. Pike and Gibson Counties (C. A. White).						X
* <i>Aviculopecten pecteniformis</i> Conrad. Falls of the Ohio, Charlestown (Nettleroth).		X				
<i>Aviculopecten princeps</i> Conrad. Falls of the Ohio (James Hall).		X				
* <i>Aviculopecten providencensis</i> Cox. Dubois County.						X
<i>Aviculopecten rectilaterarius</i> Cox. Vanderburg County, Vigo County and Clay County.						X

CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.			QUATERNARY.
<i>Ariculopecten spinuliferous</i> Worthen.....		Clinton.		Knobstone and Rockford Limestone.			
Crawfordsville (A. H. Worthen).		Niagara and Water Lime.		Burford and Keokuk.			
<i>Ariculopecten winchelli</i> Meek, 8.....			Corniferous and Hamilton.	Warsaw and St. Louis.			
Harrison County.			New Albany Shale.	Kaskaskia.			
<i>Avicula corrugata</i> Jaines.....				Musfield.			
<i>see</i> <i>Pterinea corrugata</i> .				Coal Measures.			
<i>Avicula demissa</i>				Drift.			
<i>see</i> <i>Pterinea demissa</i> .							
<i>Avicula insuetta</i>							
<i>see</i> <i>Pterinea insuetta</i> .							
<i>Bryonychia tenuistrigata</i> Ulrich.....	x						
Richmond (Ulrich).							
<i>Cardiamorpha missouriensis</i> Shumard, 7.....							x
Vanderburg County.							
<i>Cardiamorpha radiata</i> M. & W.							
<i>see</i> <i>Cardiopsis radiata</i> .							
<i>Cardiamorpha subglobosa</i> Meek.....			x				
Washington County.							
<i>Cardiola radiata?</i>							
<i>see</i> <i>Panenka radiata</i> .							
<i>Cardiopsis radiata</i> Meek & Worthen (<i>Cardiamorpha radiata</i>).....			x				
Rockford (Meek & Worthen).							
<i>Chaenomya rhomboidea?</i> M. & W., 7.....				x			
Orange County.							
<i>Clidopharina tabula</i> Hall.....	x						
Versailles (Miller).							
<i>Clinopista antiqua</i> Meek.....		x					
Clark County (Nettleroth).							
<i>Clinopista radiata</i> Hall, 13.....						x	
(C. A. White).							
<i>Clinopista striata</i> Nettleroth.....		x					
Clark County (Nettleroth).							
<i>Clinopista subnudata</i> (H. & W.) Hall.....		x					
Louisville, Ky. (James Hall), Clark County (Nettleroth).							
<i>Olionychia exornata</i> Ulrich.....	x						
Richmond (Ulrich).							
* <i>Conocardium attenuatum</i> Conrad.....	x						
Waldrön.							
* <i>Conocardium carinatum</i> Hall, 12.....				x			
Bloomington, Spergen Hill, Harrison and Washington Counties.						x	
<i>Conocardium cestostomum</i> Hall, 12.....					x		
Spergen Hill (Hall), Washington County.						x	
<i>Conocardium constrictum</i> Hall, 8.....					x		
Harrison County.						x	
* <i>Conocardium cuneatum</i> Hall, 12.....					x		
Bloomington and Spergen Hill (Hall), Monroe and Washington Counties, Greencastle and Harrison County.						x	
† <i>Conocardium cuneus</i> Conrad.....							
Pendleton.							
<i>Conocardium elodi</i> Miller, 17.....		x					
Hartsville.							
<i>Conocardium equilaterale</i> Hall, 12.....				x			
Spergen Hill (Hall), Washington County.						x	
<i>Conocardium exiguum</i> Miller, 17.....		x					
Bunker Hill.							
<i>Conocardium indianense</i> Miller, 17.....			x				
Crawfordsville.							
<i>Conocardium meekianum</i> Hall, 12.....		x					
Washington County.							

† Schoharie-grit (James Hall).

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARRONIFEROUS.	QUATERNARY.
						COAL MEASURES. DRIFT.
<i>Conocardium ohioense</i> Meek.						
Falls of the Ohio (James Hall), Madison.		X				
<i>Conocardium parvulum</i> Miller, 17.		X				
Bunker Hill.						
<i>Conocardium prattianum</i> Hall, 12.		X				
Washington County.						
* <i>Conocardium trigonale</i> Hall, 11.		X				
Madison (Meek) Falls of the Ohio (Nettleroth).						
<i>Crenipecten retiferus</i> Shumard (Lima retifera).						
Knox, Gibson and Posey Counties (C. A. White).						
<i>Cyclocouchea milleri</i> Meek.	X					
Versailles (Ulrich).						
<i>Cypricardia nucleus</i> Hall, 12.				X	X	
Spergen Hill (Hall), Harrison County and Washington County.						
<i>Cypricardella oblonga</i> Hall, 12.				X	X	
Spergen Hill and Bloomington (Hall), Washington County.						
<i>Cypricardella plicata</i> .					X	
see <i>Goniofora plicata</i> .						
<i>Cypricardella subelliptica</i> Hall, 12.						
Washington County.						
<i>Cypricardia indianaensis</i> .						
see <i>Cypricardinia indianaensis</i> .						
<i>Cypricardia subplanata</i> .						
see Edmondia subplanata.						
<i>Cypricardia undulata</i> Gurley.						
Vermillion County (Gurley).						
<i>Cypricardia ventricosa</i> Hall.				X		
Rockford (James Hall).						
<i>Cypricardites hainesii</i> Miller.	X					
Richmond (Miller).						
* <i>Cypricardites sterlingensis</i> M. & W. (?)	X					
Richmond (Miller & Meek).						
<i>Cypricardina arata</i> Hall, 11.		X				
Waldron (James Hall).						
<i>Cypricardina cataracta</i> Conr.		X				
Falls of the Ohio (Nettleroth).						
<i>Cypricardinia (?) cylindrica</i> H. & W.		X				
Louisville, Ky. (James Hall), Falls of the Ohio (Nettleroth).						
<i>Cypricardinia indentata</i> (Con.) Hall.		X				
Falls of the Ohio (James Hall).						
<i>Cypricardinia indianaensis</i> Hall (<i>Cypricardia indianaensis</i> , 12).		X				
Spergen Hill (Hall).						
<i>Cypricardinia inflata</i> var. <i>suhequivalvis</i> H. & W.		X				
Falls of the Ohio (Nettleroth).						
<i>Cythere carbonaria</i> Hall.				X		
Spergen Hill (Hall), Greencastle and Harrison County.						
<i>Edmondia subplanata</i> Hall (<i>Cypricardia subplanata</i>), 12.		X				
Spergen Hill (Hall).						
<i>Entolium aviculatum</i> Swallow, 13.				X		
Fountain, Vermillion, Vigo Pike, Dubois, Perry and Spencer Counties (C. A. White).						
<i>Glyptodesma cancellata</i> Nettleroth.		X				
Falls of the Ohio (Nettleroth).						
<i>Glyptodesma occidentalis</i> Hall.		X				
Balls of the Ohio (James Hall).						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	MANSFIELD.	COAL MEASURES.	QUATERNARY.			
			Clinton.	Niagara and Water Line.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Burlington and Keokuk.	Warsaw and St. Louis.	Raskaska.	Drift.
<i>Goniophora plicata</i> Hall (<i>Cypriocardella plicata</i>), 12. Bloomington (Hall).											
<i>Goniophora speciosa</i> Hull, II. Waldron.				X					X		
<i>Goniophora truncata</i> Hall. Falls of the Ohio (Nettleroth).											
<i>Grammysia arcuata</i> (Con.), II. Falls of the Ohio (James Hall).											
<i>Grammysia gibbosa</i> II. & W. Falls of the Ohio (Nettleroth).											
<i>Grammysia rhomboidalis</i> M. & W. Washington County.											
<i>Grammysia ventricosa</i> Meek. Washington County.											
<i>Ischyrodonta decipiens</i> . Richmond (Ulrich).		X									
<i>Ischyrodonta elongata</i> Ulrich. Richmond (Ulrich).		X									
<i>Ischyrodonta miseneri</i> Ulrich. Richmond (Ulrich).		X									
<i>Ischyrodonta modioliformis</i> Ulrich. Richmond (Ulrich).		X									
<i>Ischyrodonta ovalis</i> Ulrich. Richmond (Ulrich).		X									
<i>Leda bellistrigata</i> . see <i>Nuculina bellistrigata</i> . <i>Leda nasa</i> Hall, 12. Spergen Hill and Lanesville.		X									
<i>Lima retifera</i> Shumard, 13. see <i>Crenipecten retiferus</i> . <i>Limoptera concinna</i> Hall. Falls of the Ohio (James Hall).				X							
* <i>Lithophaga linguis</i> Phillips, 16. Lawardsville and Harrison County.							X				
<i>Lithophaga pertenuis</i> M. & W. Lanesville.								X			
<i>Lunularia fragile</i> Hall. Scott County (James Hall).					X						
<i>Macrandon obsoletus</i> Meek. Spergen Hill (R. P. Whitfield).									X		
<i>Megaptera caeci</i> M. & W.; 10 Richmond.		X									
<i>Megambonita lyoni</i> . Rockford (James Hall).					X						
<i>Modiolodon decivis</i> Ulrich. Richmond (Ulrich).		X									
<i>Modiolodon subreticulatus</i> Ulrich. Richmond (Ulrich).		X									
<i>Modiolodon subvolutus</i> Ulrich. Versailles (Ulrich).		X									
<i>Modiolodon truncatus</i> Hall. Versailles (Ulrich).		X									
* <i>Modiolopsis cincinnatensis</i> II. & W. Richmond.		X									
<i>Modiolopsis concentrica</i> Hall & White (Ulrich).		X									
* <i>Modiolopsis modiolaris</i> . Madison and Richmond.		X									
* <i>Modiolopsis pertusa</i> Hall, II. Waldron (James Hall).				X							
* <i>Modiolopsis pholadiformis</i> Hall. Richmond (Miller).		X									

	CINCINNATI.	ORDOVIAN.	CARBONIFEROUS.				QUATER-NARY.
			SILURIAN.	DEVONIAN.	KNOBSTONE AND ROCKFORD LIMESTONE.	MARSHFIELD.	
<i>Modiolopsis subulata</i> Hall, 11.....			Clinton.	Niagara and Water Line.			
Waldron (James Hall).		X					
<i>Modiolopsis persimilis</i> Miller.....				Corniferous and Hamilton.			
Versailles (Miller).				New Albany Shale.			
<i>Modiomorpha affinis</i> Hall.....					Knobstone and Rockford Limestone.		
Clark County (James Hall).					Burkinton and Keokuk.		
<i>Modiomorpha alta</i> Hall.....					Warsaw and St. Louis.		
Falls of the Ohio and Charlestown (James Hall).					Kaskaska.		
<i>Modiomorpha charlestowensis</i> Nettleroth.....						Mansfield.	
Clark County (Nettleroth).						Coal Measures.	
<i>Modiomorpha concentrica</i> Hall.....							Drift.
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 longipinna</i> Cox.....							
Dubois County.							
<i>Monopteria gibsoni</i> M. & W., 13.....							
Vermillion, Sullivan and Posey Counties (C. A. White).							
<i>Monotis</i> (?) <i>pregraria</i> M. & W.....							
Crawfordsville (Meek & Worthen).					X		
<i>Myalina concentrica</i> M. & W.....							
Spergen Hill (Meek & Worthen).							
* <i>Myalina keokuk</i> Worthen, 8.....					X	X	
Harrison and Washington Counties and Crawfordsville.							
<i>Myalina subquadrata</i> Shumard, 13.....							
Knox, Gibson and Posey Counties (C. A. White).							
* <i>Myalina scutellaris</i> McChesney, 13.....							
Park, Vermillion and Vigo Counties (C. A. White), Dubois County.							
<i>Mytilinea sigilla</i> Hall, 11.....			X				
Wal Iron (James Hall).							
<i>Nacula hyams</i> Hall.....				X			
Rockford (James Hall).							
<i>Nucula inflata</i> , 7.....							
Vanderburgh County.							
<i>Nucula lirata</i> Conrad, II.....			X				
Shelby County.							
<i>Nucula nuda</i> II & W.....							
Louisville, Ky. (James Hall), Falls of the Ohio (Nettleroth).							
* <i>Nucula niotica</i> II. & W.....				X			
Falls of the Ohio (James Hall) (Nettleroth).							
<i>Nucula herzeri</i> Nettleroth.....				X			
Falls of the Ohio (Nettleroth).							
<i>Nucula nanuta</i> Hall.....							
<i>ne</i> <i>Nuculanana nasuta</i> .							
<i>Nucula shumardiana</i> Hall, 15.....						X	
Washington County.							
<i>Nucula ventricosa</i> Hall, II.....							
Sullivan County (C. A. White).							
<i>Nuculanana bellistrigata</i> Stevens, 13.....							
Vermillion, Sullivan, Vanderburgh and Warrick Counties (C. A. White).							
<i>Nuculanana granularis</i> Hall (<i>Nucula nasuta</i>).....					X		
Washington County (Hall).							
<i>Nuculanana shumardiana</i> , 12.....					X		
Spergen Hill (Hall).							

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knobstone and Rockford Limestone.	Drift.
					Burlington and Kokuk.	Coal Measures.
<i>Opisthoptera casci</i> White.....	x					
Richmond (Ulrich).						
<i>Opisthoptera obliqua</i> White.....	x					
Richmond (Ulrich).						
<i>Orthodesma canaliculatum</i> Ulrich.....	x					
(Ulrich).						
* <i>Orthodesma parallelum</i> Hall.....	x					
Madison.						
* <i>Orthodesma rectum</i> H. & W.....	x					
Madison.						
<i>Orthodesma subangulatum</i>	x					
Richmond (Ulrich).						
<i>Ortonella hainesii</i> Miller.....	x					
Richmond (Ulrich).						
<i>Paleoneileus bedfordensis</i> Meek.....				x		
Washington County.						
<i>Panenka radians</i> Conrad (<i>Cardiola radians</i>).....		x				
Scott County (Whitfield).						
* <i>Paracymelus elliptica</i> Hall, 10.....		x				
Falls of the Ohio, and Clark County (James Hall).						
* <i>Paracymelus elliptica</i> var. <i>occidentalis</i> Hall.....		x				
Centreville.						
<i>Paracymelus elongata</i> Nettleroth.....		x				
Clark County (Nettleroth).						
* <i>Paracymelus lirata</i> (Con.) Hall.....		x				
Falls of the Ohio and Clark County (James Hall).						
<i>Paracymelus oeterlonii</i> Nettleroth.....		x				
Falls of the Ohio (Nettleroth).						
<i>Paracymelus ohioensis</i> Meek.....		x				
Clark County (Nettleroth).						
<i>Pinna subspatulata</i> Worthen, 8.....				x	x	
Washington and Harrison Counties.						
<i>Pinna peracuta</i> Shumard, 13.....		x				
Orange County (C. A. White).						
* <i>Pterinea brisa</i> , Hall, 11.....		x				
see <i>Pterinea striaecosta</i> .						
<i>Pterinea corrugata</i> James (<i>Avicula corrugata</i>).....	x					
Wayne County (James).						
* <i>Pterinea concavatrica</i> Con.....		x				
Charlottesville.						
* <i>Pterinea demissa</i> Conrad (<i>Avicula demissa</i>).....	x					
Madison (W. S. T. Cornett)						
* <i>Pterinea flabellum</i> Con., 11.....		x				
Falls of the Ohio and Shelby County.						
<i>Pterinea granulata</i> Hall.....		x				
Scott County (James Hall).						
<i>Pterinen insueta</i> Emmons (<i>Avicula insueta</i>).....	x					
Madison (Cornett).						
<i>Pterinea striaecosta</i> McChesney (<i>Pterinea striaecosta</i>).....						
Walron (James Hall).						
<i>Pterinopecten nodosus</i> Hall.....		x				
Fa. ls of the Ohio (James Hall).						
<i>Pterinopecten reflexus</i> Hall.....		x				
Falls of the Ohio (James Hall).						
<i>Pteronites spargensis</i> Whitfield.....					x	
Spergen Hill and Bloomington (R. P. Whitfield).						
* <i>Ptychodesma knappianum</i> H. & W.....		x				
Falls of the Ohio (James Hall).						
<i>Rhytidyma byssorum</i> Miller.....	x					
Richmond (Ulrich).						

	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.	Drift.
<i>Capulus parvus</i> Swallow.....						
Coal Measures (Keyes).						
<i>Capulus subcatinatus</i> Keyes.....						
Crawfordsville (Keyes).						
<i>Chiton carbonarius</i> Stevens, 8.....						
Spergen Hill (R. P. Whitfield), Harrison County.						
<i>Conradella dyeri cellulosa</i> Ulrich.....	X					
Richmond and Versailles (Ulrich).						
* <i>Cyclonema bilex</i> Conrad, 19.....	X					
Franklin County (Moore), Madison (Meek), Richmond (White).						
* <i>Cyclonema bilex</i> var. <i>conicum</i> Miller.....	X					
Madison.						
<i>Cyclonema cancellatum</i> 6.....		X				
Madison (Cornett).						
<i>Cyclonema fluctuata</i> James.....		X				
(James).						
<i>Cyclonema humerosum</i> Ulrich.....		X				
Richmond and Versailles (Ulrich).						
<i>Cyclonema leavenworthianum</i> Hall, 12 (Pleurotomaria leavenworthianum).....						
Spergen Hill and Bloomington (James Hall), Harrison and Washington Counties.						
<i>Cyclonema mediale</i> (Ulrich).....	X					
<i>Cyclonema pulchellum</i> Mill. & G., New Albany (Miller & Gurley).				X		
<i>Capulus siccatus</i> Keyes.....				X		
Crawfordsville (Keyes).						
<i>Cyclonema subangulatum</i> Hall (Pleurotomaria subangulatum), 12.....						
Washington County and Spergen Hill (Hall).						
* <i>Cyclora minuta</i> Hall.....	X					
Madison (Cornett).						
<i>Cyclora porula</i> Hall.....	X					
Versailles (Miller).						
<i>Cyclora pulicella</i> Miller.....	X					
Versailles (Miller).						
<i>Cyrtolites inornatus</i> Hall.....	X	X				
Franklin County (Moore).						
<i>Cyrtolites magnus</i> Miller.....	X	X				
Richmond (Miller).						
<i>Cyrtolites ornatus</i> Conr.....	X	X				
Versailles (Miller), Madison (W. S. T. Cornett).						
<i>Cyrtolites sinuatus</i> Hall, 11.....		X				
Waldron (James Hall).						
<i>Cyrtolites youngi</i> Foerste.....	X	X				
Hanover (Foerste).						
<i>Eotrochus concavus</i> Hall (Pleurotomaria concavus), 12.....					X	
Harrison County, Spergen Hill and Bloomington.						
* <i>Euomphalus cyclostomus</i> Hall, 11.....			X			
Shelby County:						
<i>Euomphalus decewi</i> Bill., 11.....						
* see <i>Pleuronotus decewi</i> .						
* <i>Euomphalus disjunctus</i> Hall.....	X					
Rensselaer and Huntington.						
<i>Euomphalus lens</i> Hall.....						
* see <i>Straparollus lens</i> .						

	CINCINNATI.	ORDOVICIAN	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATER- NARY.
	Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.	New Albany Shale.	Knoebel and Rock- ford Limestone. Burlington and Keokuk.	Drift.
					Waver and St. Louis.	
<i>Euomphalus planispira</i> Hall, 12.....						
Spergen Hill and Blooming on (Hall), Har- rison County, Monroe County, Greencastle and Washington County						
<i>Euomphalus planorbiformis</i> Hall, 8.....						
Harrison County, Washington County and Orange County.						
<i>Euomphalus quadrivalvus</i> , 12.....						
see <i>St. apollinus quadrivalvus</i> .						
<i>Euomphalus rugosus</i> Hall, 13.....						
see <i>Euomphalus subrugosus</i> .						
* <i>Euomphalus hamponi</i> Nettleroth.....						
Clark County (Nettleroth).						
<i>Euomphalus spengensis</i> , 12.....						
see <i>Straparollus spengensis</i> .						
<i>Euomphalus spengensis</i> var. <i>planorbiformis</i> , 12.....						
see <i>Straparollus spengensis</i> .						
<i>Euomphalus spirorbis</i>						
see <i>Straparollus spirorbis</i> .						
<i>Euomphalus subrugosus</i> M. & W. (<i>E. rugosus</i>).....						
Throughout the Coal Measures (C. A. White).						
* <i>Enomphagus tioga</i> Hall.....						
Charlestown.						
<i>Helicostoma 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.....						
Spergen Hill (Hall), Washington County.					x	
<i>Isonema lichenum</i> Hall.....						
Charlestown.						
<i>Liaopira vitruvia</i> Bill,.....	x					
(Ulrich).						
<i>Lophospira acuminata</i> n. sp. or var. <i>perangulata</i>	x					
Richmond (Ulrich).						
<i>Lophospira ampla</i> Ulrich.....	x					
Richmond (Ulrich).						
<i>Lophospira boudeni</i> Safford.....	x x					
(Ulrich).						
<i>Lophospira multigranata</i> Miller.....	x					
Madison and Richmond and Versailles.						
<i>Loconema hamiltonae</i> Hall.....						
Clark County (Nettleroth).						
<i>Loconema hydraulicum</i> H. & W.....						
Charlestown (Nettleroth).						
<i>Loconema laevigatum</i> Hall.....						
Falls of the Ohio (Nettleroth).						
<i>Loconema nixile</i> Phillips, 11.....	x x x					
Shelby County.						
<i>Loconema rectistrigatum</i> Hall.....						
Falls of the Ohio (Nettleroth).						
<i>Loconema teres</i> Hall.....						
Falls of the Ohio and Charlestown.						
<i>Loconema vincula</i> Hall.....	x					
see <i>Murchisonia vincula</i> .						
<i>Loconema yandellianum</i> Hall, 12.....					x	
Spergen Hill (Hall), Washington County.						
<i>Macrocheilus fusiformis</i>					x	
see <i>Solenites fusiformis</i> .						
<i>Macrocheilus (?) littonanus</i> Hall, 12.....						
Bloomington.						

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Cincinnati.	Clinton.	Niagara and Water Line.	Knobstone and Rockford Limestone. Burlington and Keokuk. Warsaw and St. Louis.	Drift.
<i>Macrocheilus primogenius</i> Conrad..... <i>see Macrochilina primogenius.</i>					
* <i>Macrocheilus primigenia</i> Vigo County.					
* <i>Macrocheilus ponderosa</i> Conrad..... Sullivan County and Vigo County.					
* <i>Macrocheilus ventricosa</i> Hall..... Sullivan and Vigo Counties.					
<i>Macrocheilina carinatus</i> Nettleroth..... Falls of the Ohio (Nettleroth).		X			
* <i>Macrocheilina klapptii</i> Meek..... Dubois County.					
<i>Macrocheilina littonana</i> Hall (<i>Natica littonana</i>). Bloomington (James Hall).				X	
* <i>Macrocheilina primogenita</i> Conrad (<i>Macrocheilus (?) littonanus</i>), 12..... Bloomington.				X	
<i>Micraster inornatum</i> Hall..... Versailles (Miller).	X				
<i>Murchisonia attenuata</i> , 12..... Spergen Hill (Hall). Washington County.			X		
* <i>Murchisonia bicanula</i> Hall..... Madison and Richmond (Cornett), Ripley County.	X				
<i>Murchisonia bicincta</i> <i>see M. milleri.</i>					
<i>Murchisonia desiderata</i> Hall..... Falls of the Ohio (Nettleroth).		X			
<i>Murchisonia elegans</i> <i>see Pleurotomaria elegantula.</i>					
* <i>Murchisonia gracilis</i> Hall..... Madison.	X				
<i>Murchisonia hammetti</i> Miller, 18..... Madison.	X				
<i>Murchisonia indianensis</i> Miller & G.... New Albany (Miller & Gury).			X		
<i>Murchisonia insculpta</i> Hall, 12..... Spergen Hill and Bloomington (Hall), Washington and Harrison Counties.			X		
<i>Murchisonia (Pleurotomaria) limitaris</i> Hall..... Rockford (James Hall).			X		
* <i>Murchisonia milleri</i> Hall (<i>M. bicincta</i>)..... Ripley County and Madison.	X				
<i>Murchisonia multigyrata</i> Miller..... Richmond and Versailles (Miller).	X				
<i>Murchisonia terebriformis</i> Hall, 12..... Bloomington (Hall). Washington County.			X		
<i>Murchisonia turritella</i> Hall, 12..... Spergen Hill (Hall). Washington County.			X		
<i>Murchisonia vernacula</i> Hall, 12..... Spergen Hill and Bloomington (Hall), Washington and Harrison Counties.			X		
* <i>Murchisonia ventricosa</i> Hall..... Madison.	X				
<i>Murchisonia vineta</i> Hall, 12 (<i>Loxonema vineta</i>). Spergen Hill (Hall).			X		
<i>Natica carleyana</i> <i>see Naticopsis carleyana.</i>					
<i>Natica littoralis</i> Bloomington (Hall).			X		
* <i>Naticopsis carleyana</i> Hall, 12 (<i>Natica carleyana</i>)..... Spergen Hill and Bloomington (Hall).			X		
* <i>Naticopsis gigantea</i> Hall..... Falls of the Ohio.		X			

	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
CINCINNATI.	CLINTON.	NIAGARA AND WATER LINE.	ORNAMENTAL AND HAMILTON.	NEW ALBANY SHALE.	DRIFT.
* <i>Naticopsis laevis</i> Meek Charlestown.			X		
<i>Naticopsis nona</i> Meek & Worthen, 13. (C. A. White).					
<i>Naticopsis shumardiana</i> Hall, 8 Harrison County.					
<i>Naticopsis wheeleri</i> Swallow, 13 Vigo County (C. A. White).					
<i>Patella levettei</i> White, 11 Spiegel Hill.					
* <i>Platyceras acutirostre</i> Hall, 12 Owen County and Washington County, Bloomington.					
* <i>Platyceras ammon</i> Hall Charlestown.			X		
* <i>Platyceras (?) arctostoma</i> Ulrich Falls of the Ohio (Ulrich).		X			
<i>Platyceras attenuatum</i> Hall, 6 Madison.			X		
<i>Platyceras bucculentum</i> II. Clark County (Netterroth).			X		
* <i>Platyceras carinatum</i> Hall Charlestown and Falls of the Ohio.			X		
<i>Platyceras compressum</i> Neffleroth Falls of the Ohio (Netterroth).			X		
* <i>Platyceras conicum</i> Hall Falls of the Ohio (Netterroth).			X		
* <i>Platyceras cymbium</i> Hall Charlestown.			X		
* <i>Platyceras cyrtolites</i> McChesney New Harmony.					X
* <i>Platyceras dimorphum</i> Conrad Clark County and Jennings County (Netterroth).			X		
<i>Platyceras dimorphum</i> var. <i>rarispinum</i> Hall Falls of the Ohio.			X		
* <i>Platyceras echinatum</i> Hall Clark County (Netterroth).			X		
<i>Platyceras equilaterales</i> Hall, 8 and 10 Harrison County, Monroe County, Crawfordsville and Washington County.				X	
* <i>Platyceras erectum</i> Hall Charlestown (Netterroth).			X		
* <i>Platyceras fissuratum</i> Hall, 8 Harrison County, Alters, Crawfordsville and Owen County.				X	
<i>Platyceras (Orthomechia) fluctuosum</i> Ulrich Falls of the Ohio (Ulrich).			X		
* <i>Platyceras haliotoides</i> M. & W. Rockford.				X	
<i>Platyceras indianensis</i> Miller & Gurley Charlestown (Miller & Gurley).			X		
<i>Platyceras infundibulum</i> M. & W., 8 Washington County, Harrison County, Monroe County and Crawfordsville.				X	
<i>Platyceras milleri</i> Netterroth Falls of the Ohio (Netterroth).		X			
* <i>Platyceras multipinatum</i> Meek Falls of the Ohio (Netterroth).					
<i>Platyceras nebrascense</i> Meek, 13 Eugene, Edwardsport (C. A. White), Harrison County.				X	X
<i>Platyceras quinqespinatum</i> Ulrich Falls of the Ohio (Ulrich).			X		

	CINCINNATI.	ORDOVICIAN.	CARBONIFEROUS.				QUATERNARY.
			SILURIAN.	DEVONIAN.	KINZIGAN.	DRIFT.	
<i>Platyceras rictum</i> Hall.....			Clinton.		Ketostone and Rock-		
Clark County (Nettleroth).			Niagara and Water		ford Limestone.		
<i>Platyceras serratum</i> Ulrich			Line.		Burlington and		
Falls of the Ohio (Ulrich).		X			Keokuk.		
* <i>Platyceras subundatum</i> Conrad		X	Corniferous and		Waukesha and St.		
Falls of the Ohio.		X	Hamilton.		Louis.		
<i>Platyceras symmetricum</i> Hall.....		X	New Albany Shale.		Kaskaskia.		
Clark County (Nettleroth).		X			Mansfield.		
* <i>Platyceras thetis</i> Hall.....		X			Coal Measures.		
Falls of the Ohio, Charlestown (Nettleroth).		X					
<i>Platyceras meeki</i> Meek & Worthen, 8.....		X					
Harrison County and Crawfordsville.		X					
* <i>Platyceras ventricosum</i> Conrad		X					
Clark County (Nettleroth).		X					
* <i>Platystoma hemisp. cricium</i> Hall.....		X					
Delphi.		X					
<i>Platystoma lineata</i> Hall.....		X					
Clark County (Nettleroth).		X					
<i>Platystoma lineata</i> var. <i>callosa</i> Hall		X					
Clark County (Nettleroth).		X					
<i>Platystoma niagarensis</i> Hall, 11 and 10.....		X					
Waldron (Hall), Madison and Carroll		X					
County.		X					
<i>Platystoma plebeium</i> H., 11		X					
Waldron (J. Hall).		X					
<i>Platystoma turbinata</i> Hall.....		X					
Falls of the Ohio (Nettleroth).		X					
<i>Platystoma turbinata</i> var. <i>cochlearia</i> H..		X					
Louisville, Ky. (Nettleroth).		X					
* <i>Pleuronotus descri</i> Billings, 11 (E. decewi)		X					
Falls of the Ohio (Nettleroth), Shelby County		X					
<i>Pleurotomaria arabella</i> Nettleroth.....		X					
Clark County (Nettleroth).		X					
<i>Pleurotomaria bilobata</i> Conrad.....		X					
sec Cyclonema bilobata.		X					
* <i>Pleurotomaria carbonarius</i> N. & P.....		X				X	
Vanderburgh County.		X				X	
<i>Pleurotomaria concava</i> Hall, 8		X				X	
sec Eoconcha concavus.		X				X	
<i>Pleurotomaria convoluta</i> Hall, 12.....		X			X		
Sperga Hill (Hall), Washington County.		X			X		
* <i>Pleurotomaria elegantula</i> Hall, 12 (Murchisonia		X			X		
elegantula)		X			X		
Bloomington (Hall).		X			X		
* <i>Pleurotomaria ella</i> Hall		X			X		
Delphi.		X			X		
* <i>Pleurotomaria granulifera</i> N. & P.....		X			X		
Vanderburgh County and Vigo County.		X			X		
<i>Pleurotomaria humilis</i> Hall, 12		X			X		
Bloomington and Sperga Hill (Hall), Wash-		X			X		
ington County.		X			X		
* <i>Pleurotomaria hoyi</i> Hall		X			X		
Huntington.		X			X		
* <i>Pleurotomaria idia</i> Hall		X			X		
Huntington (Hall).		X			X		
<i>Pleurotomaria imitator</i> Hall		X			X		
Charlestown, Falls of the Ohio (Hall).		X			X		
* <i>Pleurotomaria lucina</i> Hall		X			X		
Charlestown and Bartholomew County.		X			X		
* <i>Pleurotomaria lucina</i> var. <i>perfusa</i> Hall		X			X		
Falls of the Ohio, Clark County (Nettleroth).		X			X		
<i>Pleurotomaria leavenworthana</i>		X			X		
sec Cyclonema leavenworthana.		X			X		

	Cincinnati.	Orbicularian.	CARBONIFEROUS.				Quaternary.
			Silurian.	Devonian.	Knobstone and Rockford Limestone.	Drift.	
* <i>Pleurotomaria meekana</i> Hall, 12. Spergen Hill and Bloomington (Hall), Washington County.		Clinton.	Niagara and Water Lime.	Corniferous and Hamilton.		X	
<i>Pleurotomaria mitigata</i> Hall.				New Albany Shale.	Burnington and Keokuk.		
* <i>Pleurotomaria nodulosaria</i> Hall, 12. Spergen Hill and Bloomington (Hall), Washington County.					Warsaw and St. Louis.		
* <i>Pleurotomaria occidentalis</i> Hall, 12. Delphi.			X		Kaskaskia.		
<i>Pleurotomaria piassaeensis</i> Hall, 15. Washington County.					Mansfield.		
<i>Pleurotomaria proctera</i> Nettleroth Clark County (Nettleroth).			X		Coal Measures.		
<i>Pleurotomaria rotundata</i> . see <i>Pleurotomaria subglobosa</i> .							
* <i>Pleurotomaria shumardi</i> M. & W., 8. Harrison County and Crawfordsville.							
* <i>Pleurotomaria sphæ<ul style="list-style-type: none">-ulata</i> Conrad, 13. Vanderburgh and Vigo (White).							
<i>Pleurotomaria tabulata</i> Conrad, Hall (Hall).							
<i>Pleurotomaria subangulatum</i> Hall. see <i>Cycloneura subangulatum</i> Hall.							
<i>Pleurotomaria subglobosa</i> Hall, 12 (<i>Pleurotomaria rotunda</i>). Spergen Hill and Bloomington.			X		X		
* <i>Pleurotomaria sulcomarginata</i> Conrad. Watson's Station and Falls of the Ohio (Hall).			X				
<i>Pleurotomaria subconica</i> , Hall. Richmond.	X						
<i>Pleurotomaria swallowana</i> Hall, 12. Spergen Hill and Bloomington (Hall), Washington County.					X		
* <i>Pleurotomaria tabulata</i> Conrad, 10 and 13. Rush Creek, Vigo County, and Posey County (White).						X	
<i>Pleurotomaria textiligera</i> Meek. Washington County.				X			
<i>Pleurotomaria trilineata</i> Hall, 12. Spergen Hill (Hall), Washington County.					X		
<i>Pleurotomaria tropidophora</i> Meek. Versailles (Miller), Madison (W. S. T. Corney).	X						
<i>Pleurotomaria turbiniformis</i> M. & W., 13. Vigo County (C. A. White).						X	
<i>Pleurotomaria vadosa</i> H. Rockford (James Hall).				X			
* <i>Pleurotomaria tricornis</i> Hall, 12. Spergen Hill and Bloomington (Hall), Washington County, Monroe and Harrison Counties.					X		
<i>Polyphemopsis fusiformis</i> Hall, 10. Newport (C. A. White).						X	
<i>Polyphemopsis louisvillae</i> H. & W. Falls of the Ohio (Nettleroth).			X				
<i>Polyphemopsis nitidula</i> M. & W., 11. Vermillion County (C. A. White).						X	
<i>Protowarthia cancellata</i> Hall. (Ulrich).	X						
<i>Protowarthia subeompresa</i> Ulrich. Versailles (Ulrich).	X						
<i>Raphistoma richmondense</i> Ulrich. Richmond (Ulrich).	X						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATER-
			Clinton. Niagara and Water Line.	Coniferous and Hamilton.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Warsaw and St. Louis.	Drift.
				New Albany Shale.		Coal Measures.
<i>Salpingostoma richmondensis</i> Ulrich.	X					
Richmond (Ulrich).						
<i>Schizolopha moorei</i> Ulrich.	X					
Richmond (Ulrich).						
<i>Solenites?</i> (<i>Macrocheilus</i>) <i>medialis</i> M. & W., 13.						
Vermillion County (C. A. White).						
<i>Solenites tenuiformis</i> Hall (<i>Machrocheilus fusi-</i> <i>formis</i>), 7.						
Vanderburgh County.						
<i>Solenites</i> (<i>Macrocheilus</i>) <i>paludinaeformis</i> Hall,						
13						
Vermillion County (C. A. White).						
<i>Solenites?</i> (<i>Macrocheilus</i>) <i>primigenius</i> Conrad.						
(C. A. White).						
<i>Trochonema madisonense</i> Ulrich.	X					
Madison (Ulrich).						
* <i>Straparollus lens</i> Hall (<i>E. lens</i>).				X		
Rockford (Jas. Hall).						
* <i>Straparollus planidorsalis</i> M. & W.						
Orange County.						
<i>Straparollus quadrirrolvis</i> Hall.					X	
Washington County.						
* <i>Straparollus spergensis</i> Hall (<i>Euomphalus sper-</i> <i>gensis</i>).					X	
Spergen Hill, Greencastle and Monroe County (J. Hall).						
<i>Straparollus spergensis</i> var. <i>planorhiformis</i> Hall.						
(<i>E. spergensis</i> var. <i>planorhiformis</i>).						
Bloomington and Spergen Hill (J. Hall).					X	
<i>Straparollus spirorbis</i> Hall (<i>Euomphalus spi-</i> <i>rboris</i>).						
Rockford (James Hall).						
<i>Strophostylus cyclostomus</i> var. <i>dixunctus</i> Hall, II.		X				
Waldron (James Hall).						
<i>Strophostylus cyclostomus</i> Hall, II.						
Waldron (J. Hall).						
<i>Strophostylus varians</i> Hall.			X			
Falls of the Ohio (Nettleroth).						
<i>Subulites benedicti</i> Miller, 17.			X			
Franklin County.						
<i>Temnacheilus cocanum</i> M. & W., 8.					X	
Harrison County.						
<i>Temnacheilus niobeae</i> M. & W., 8.					X	
Harrison County.						
<i>Trochonema rectitubera</i> Hall.			X			
Falls of the Ohio (Nettleroth).						
<i>Trochonema punctulatum</i> Hall & W.			X			
Fall of the Ohio (Nettleroth).						
* <i>Tryblidium indianense</i> Miller, 17.	X					
Fayette County.						
<i>Tryblidium madisanense</i> Miller, 18.	X					
Madison.						
<i>Turbo shumardi</i> de Verneuil.						
Clark County (Nettleroth).						
PTEROPODA.						
<i>Coleolus spinulus</i> Hall, 11.	X					
Waldron.						
* <i>Coleolus tenuicinctus</i> Hall (<i>Coleoptrion tenui-</i> <i>cinctus</i>).	X					
Falls of the Ohio and Charlestown (Hall).						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATER-
			NIAGARA AND WATER LIME.	CORNIFEROUS AND HAMILTON.	NEW ALBANY SHALE.	DRIFT.
<i>Conularia cincinnatensis</i> R. Owen.....	...				Knobstone and Rockford Limestone.	
Crawfordsville (R. Owen).					Burlington and Kokuk.	
<i>Conularia formosa</i> Miller & Dyer.....	X				Warsaw and St. Louis.	
Versailles (Miller & Dyer).					Kaskaskia.	
<i>Conularia gracilis</i> M. & G.					Mansfield.	
Spengen Hill (Miller & Gurley).					Coal Measures.	
<i>Conularia infrequens</i> Hall, II.....			X			
Waldron.						
<i>Conularia intertexta</i> Miller, 18.....						
West Point.						
* <i>Conularia micromema</i> Meek, 8.....						
Clark County.						
* <i>Conularia missouriensis</i> Swallow, 8 and 10.....						
Harrison County, Washington County and Ellettsville.						
* <i>Conularia niagarensis</i> Hall.....			X			
Grant County and Waldron.						
* <i>Conularia nevadensis</i> Winchell, 8.....				X		
Harrison County and New Albany.						
* <i>Conularia quadrivalvis</i> (?) Miller.....			X			
Waldron.						
* <i>Conularia subcarbovaria</i> Meek & Worthen, 8.....				X		
Harrison County, Washington County and Crawfordsville.						
<i>Conularia subulata</i> Hall, 12.....					X	
Alton (Hall).						
<i>Conularia spengenensis</i> M. & G.						
Spengen Hill (Miller & Gurley).						
<i>Hyalithes aculeatus</i> Hall (<i>Puginculus aculeatus</i>).....				X		
Rockford (James Hall).						
<i>Hyalithes</i> (?) <i>dubius</i> M. & F.			X			
Versailles (M. & F.).						
<i>Hyalithes cornuta</i> M. & F.....			X			
Versailles (M. & F.).						
<i>Puginculus</i> (?) (<i>Theca</i>) <i>aculeatus</i> II.....						
<i>see</i> <i>Hyalithes aculeatus</i> .						
<i>Stylidium fissurella</i> Hall (<i>Tentaculites fissurella</i>).....				X		
New Albany and Scott Counties (Whitfield). Faults of the Ohio (Netterroth).						
<i>Tentaculites dextretha</i> Hall.....			X			
Pendleton (II II).						
* <i>Tentaculites fissurella</i> Hall.....						
<i>see</i> <i>Stylium fissurella</i> .						
<i>Tentaculites flexuosa</i>						
<i>see</i> <i>Coneophites flexuosa</i> .						
* <i>Tentaculites iriomontensis</i> Miller.....	X					
Richmond (Miller) (Hall).						
<i>Tentaculites</i> (?) <i>ariformis</i> Hall.....			X			
Clark County (Netterroth).						
* <i>Tentaculites tenuistrigatus</i> M. & W.....	X					
Richmond.						
<i>Tentaculites utigarensis</i> Hall, II.....			X			
Delaware County.						
 CEPHALOPODA.						
<i>Ascoconites indianaensis</i> Newell.....			X			
Delphi (Newell).						
<i>Ascoconites newberryi</i> Bell.....			X			
Delphi (Newell).						
<i>Cyrtaceraspis amorphus</i> Miller.....	X					
Richmond (Miller).						

	CINCINNATI.	ORDOVICIAN.	CARBONIFEROUS.				QUATER- NARY.
			SILU- RIAN.	DEVON- IAN.	KNOBSTONE AND ROCK- FORL LIMESTONE.	MARSHFIELD.	
<i>Cyrtoceras howardi</i> Miller, 18			Clinton.	Niagara and Water Line.			
St. Paul.							
<i>Cyrtoceras indiense</i> Miller, 17							
St. Paul and Hartsville.							
<i>Cyrtoceras lamellatum</i> , 6	x						
Madison (Cornett).							
* <i>Cyrtoceras ohioensis</i> Meek							
Charlestown.							
<i>Cyrtoceras tenuiseptum</i> Faber	x						
Versailles (Faber).							
<i>Cyrtoceras thompsoni</i> Miller, 18	x						
Fayette County.							
<i>Endoceras approximatum?</i> Hall	x						
Richmond (Miller).							
* <i>Endoceras magnirentrum</i> Hall	x						
Madison.							
* <i>Endoceras proteiforme</i> Hall	x						
Franklin County.							
<i>Gomphoceras clarki</i> Miller, 17						x	
Corydon (Miller).							
<i>Gomphoceras indiense</i> Miller & Faber	x						
Versailles and Madison (Miller & Faber).							
<i>Gomphoceras linearis</i> Newell		x					
Wabash City (Newell).							
<i>Gomphoceras mimum</i> Beecher			x				
Falls of the Ohio (J. Hall).							
* <i>Gomphoceras uriforme</i> Hall			x				
Charlestown (Nettleroth).							
<i>Gomphoceras projectum</i> Newell		x					
Delphi (Newell).							
* <i>Gomphoceras raphanus</i> Hall			x				
Charlestown.							
* <i>Gomphoceras sepiore</i> Hall, 11		x					
Delaware County, Delphi and Wabash.							
* <i>Gomphoceras subgracile</i> Hall		x					
Delphi, Wabash and Charlestown.							
* <i>Gomphoceras turbiniforme</i> M. & W.		x					
Charlestown (Meek & Worthen), (Nettleroth).							
<i>Gomphoceras wabashensis</i> Newell, 17		x					
Delphi (Newell) Wabash County.							
<i>Goniates brownensis</i> Miller, 17				x			
Brown County (Miller).							
<i>Goniates dioidemus</i> Hall		x					
Falls of the Ohio (Nettleroth).							
<i>Goniates greeni</i> Miller, 18				x			
New Albany.							
<i>Goniates greenastensis</i> Miller & Garley						x	
Gre. nestle (Miller & Garley).							
<i>Goniates hyos</i> Hall							
var G. lyoni.							
<i>Goniates indiensus</i> Miller, 17			x				
Clark County (Miller).							
* <i>Goniates ixion</i> Hall			x				
(var. rotatorius) Scott County and Rockford (J. Hall).							
* <i>Goniates lyoni</i> M. & W.			x				
Rockford (Meek & Worthen).							
* <i>Goniates ovensi</i> Hall, 10			x				
Scott County and Rockford.							
* <i>Goniates ovensi</i> var. <i>parallelus</i> Hall			x				
Rockford (J. Hall).							
<i>Goniates rotatorius</i> de Kon?							
see G. ixion.							

CINCINNATI.	ORDOVICIAN.	CARBONIFEROUS.				QUATER- NARY.
		SILU- RIAN.	DEVON- IAN.	KNOBSTONE AND ROCK- FORD LIMESTONE.	DRIFT.	
<i>Gyroceras abruptum</i> Hall, 11 Waldron.		x				
<i>Gyroceras baeri</i> M. & W. (<i>Trochoceras baeri</i>), Richmond (Miller) & (Meek).	x					
* <i>Gyroceras elodi</i> White, 11 Hartsville, St. Paul and Delaware County.		x				
* <i>Gyroceras gracile</i> Hall Rockford (J. Hall).			x	x		
* <i>Gyroceras incognita</i> Meek Falls of the Ohio.			x			
<i>Gyroceras spinosum</i> Conrad Logansport.			x			
<i>Gyroceras?</i> <i>rockfordensis</i> M. & W. Rockford (Meek & Worthen).				x		
<i>Heteroceraspis ctenoidiformis</i> Newall, 17 Wabash County.		x				
<i>Heteromeroceras delphicolum</i> Newell Delphi (Newell).		x				
<i>Kionoceras columnare</i> Hall (O. <i>columnare</i>) Wabash City (Newell).		x				
<i>Kionoceras strix</i> H. & W. (O. <i>strix</i>), 17 Wabash City (Newell), Delphi and Grant County.		x				
<i>Lituates bickmoreanus</i> Whittlefield, 17 Wabash County.		x				
<i>Lituates graffianus</i> M. & W., 17 Wabash County.		x				
* <i>Lituates marshi</i> Hall, 11 and 17 Wabash County, Delaware County.		x				
<i>Lituates multicontatus</i> Whitfield, 17 Wabash County.		x				
* <i>Nautilus clarkianus</i> Hall Spergen Hill (Hall), Washington and Tippe- canoe Counties.				x		
<i>Nautilus</i> (<i>Solenochilus</i>) <i>collectus</i> M. & W. see <i>Solenochilus collectum</i> .						
* <i>Nautilus coxanum</i> , 12 see <i>T. monochilus coxanum</i> .						
* <i>Nautilus degoratus</i> COX Vanderburgh, Clay and Vigo Counties and Greencastle.				x		
<i>Nautilus digonus</i> M. & W. see <i>Trematodiscus digonus</i> .					x	
<i>Nautilus forbesianus</i> McChesney, 13 Newport (C. A. White).						x
<i>Nautilus maximum</i> Conrad Falls of the Ohio (Nettleroth).			x			
<i>Nautilus missouriensis</i> Swinnl?, 13 Fountain County (C. A. White).					x	
* <i>Nautilus occidentalis</i> Swallow Dubois County.					x	
<i>Nautilus oceanicus</i> Hall, 11 Waldron.		x				
* <i>Nautilus planorbiformis</i> M. & W. Dubois County.					x	
* <i>Nautilus</i> (<i>Cryptoceras</i>) <i>rockfordensis</i> M. & W. Rockford (Meek & Worthen).			x			
<i>Nautilus trisulcatus</i> M. & W. see <i>Trematodiscus trisulcatus</i> .						
<i>Nautilus</i> (<i>Diseus</i>) <i>trisulcatus</i> M. & W. Rockford (Meek & Worthen).			x			
<i>Nautilus windsori</i> M. & W., 13 see <i>Trematodiscus windsori</i> .						

	Cincinnati.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	X	Clinton. Niagara and Water Lime.	Coralliferous and Hamilton.	New Albany Shale.	Knobstone and Rock- ford Limestone. Burlington and Keokuk. Waukegan and St. Louis.	Drift. Mansfield. Coal Measures.
<i>Ornoceras tenuiflur.</i> Hall, 6.....						
Madison (W. S. T. Cornett).						
<i>Orthoceras amyces</i> Hall.....						
Waldron.						
^a <i>Orthoceras annulatum</i> Sowerby, 11.....						
Newton County, Grant County, St. Paul and Hartsville.						
<i>Orthoceras bilineatum</i> , 6.....	X					
Madison (W. S. T. Cornett).						
<i>Orthoceras cylindricum</i> Miller & Gurley.....		X				
Clark County (Miller & Gurley).						
^a <i>Orthoceras clavatum</i> Hall.....		X				
North Vernon.						
^a <i>Orthoceras columolare</i> Hall, 17.....		X				
<i>see Kionoceras colummare</i>						
^a <i>Orthoceras crebrescens</i> Hall, 11.....		X				
Wabash County, Grant County, Delaware County, Miami County and North Vernon.						
<i>Orthoceras crebristriatum</i> M. & W.....			X			
Waldron.						
<i>Orthoceras epigynus</i> Hall, 12.....					X	
Spiegel Hill (Hall), Lanesville.						
<i>Orthoceras expannum</i> Meek & Worthen, 8.....					X	
Harrison County						
<i>Orthoceras franklinense</i> Miller, 18.....		X				
Franklin County.						
<i>Orthoceras goryi</i> Miller 18.....	X					
Franklin County.						
<i>Orthoceras (eu-orthoceras?) hanoverensis</i> Foerste.....		X				
Hanover (Foerste).						
^a <i>Orthoceras heterocinctum</i> Winch.....				X		
Rockford						
<i>Orthoceras icarus</i> Beecher.....				X		
Rockford (J. Hall).						
<i>Orthoceras (eu-orthoceras?) ignotum</i> Foerste.....	X					
Hanover (Foerste).						
^a <i>Orthoceras imbricatum</i> Sowerby.....		X				
St. Paul.						
<i>Orthoceras indutinum</i> Hall.....				X		
Rockford (J. Hall).						
<i>Orthoceras juncinum</i> Hall	X					
Madison (W. S. T. Cornett)						
<i>Orthoceras longicameratum</i> Hall		X				
Waldron.						
<i>Orthoceras marcellense</i> Vanuxem.....				X		
Rockford (J. Hall).						
<i>Orthoceras juniperum</i> Hall						
Madison (W. S. T. Cornett)						
<i>Orthoceras medulare</i> Hall, II.....		X				
Waldron.						
<i>Orthoceras mohri</i> Miller.....	X					
Versailles (Miller).						
<i>Orthoceras obstructum</i> Newell, 17.....		X				
Wabash County (Newell).						
<i>Orthoceras rigidum</i> Hall, 17.....		X				
Peru (Newell), Wabash County.						
^a <i>Orthoceras rushense</i> McChesney, 13.....					X	
Eugene, Newport, Lodi, Merom, Graysville, N. Harmony, Newberg and Vanderburgh County.						
^a <i>Orthoceras simulator</i> Hall, II		X				
Waldron (J. Hall), Newton County and Car- roll County.						
<i>Orthoceras spinale</i>	X					
Madison (W. S. T. Cornett).						

	CINCINNATI.	OBNOVIAN	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
						DRAFT.
* <i>Orthoceras subaneccellatum</i> Hall, 11 St. Paul and Waldron.			Clinton.	Niagara and Water Lime.	New Albany Shale.	
* <i>Orthoceras subulatum</i> Hall..... Waldron.				Corniferous and Hamilton.	Kunkolstone and Rockford Limestone.	
* <i>Orthoceras strix</i> Hall, 17. see <i>Kinoceras strix</i> .					Burlington and Keokuk.	
<i>Orthoceras unionense</i> Worthen, 17. Wabash County (Newell).		X			Warsaw and St. Louis.	
* <i>Orthoceras whitii</i> Winch. Rockford.					Kaskaskia.	
<i>Orthoceras winchelli</i> M. & W. Greeneville.					Mansfield.	
<i>Orthoceras (Actinoceras) youngi</i> Foerste. Hanover (Foerste).	X					
<i>Pentameroceras mirum</i> Barrande..... Delphi (Newell).	X	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 nector</i> Hall, 17 Grant County, Marion and Monroe.		X				
* <i>Phragmoceras parvum</i> H. & W. Grant County		X				
<i>Phragmoceras projectum</i> Newell, 17 Wabash County.		X				
<i>Phragmoceras wabash?</i> M. & W. Jeffersonville.			X			
<i>Remeleceras clarkeense</i> Miller & Gurley. Sampson Springs, Clark County (Miller & Gurley).				X		
<i>Solenites rockfordense</i> Miller, 17. Rockford.				X		
<i>Solenochilus henryvillensis</i> M. & G. Henryville (Miller & Gurley).				X		
<i>Solenochilus rockfordense</i> Miller..... Rockford (Miller).				X		
<i>Streptadiscus indianensis</i> Miller, 18. West Point.				X		
* <i>Tenuiocheilus coronaum</i> Meek & Worthen, 8. Orange County and Greencastle.				X		
<i>Tenuiocheilus niotense</i> M. & W., 8..... Harrison County.				X		
* <i>Tenuiocheilus windowi</i> M. & W. (<i>Nautilus windowsi</i>) Danville and Dubois Counties (C. A. White).						X
<i>Trematodiscus digonus</i> M. & W. (<i>Nautilus digonus</i>) Jackson County,			X	X		
<i>Trematodiscus triungulatus</i> M. & W. (<i>Nautilus triungulatus</i>). Rock ord (Meek & Worthen).			X	X		
<i>Trochoceras desplainense</i> McChesney, 17 Wabash County.		X				
<i>Trochoceras (?) baeri</i> M. & W. see <i>Gyroceras baeri</i> .		X				
* <i>Trochoceras waldronense</i> , 11 Waldron (Hall).						
					Coal Measures.	

	CINCINNATI.	ORDOVICIAN	SILURIAN.	DEVONIAN.	CARRONIFEROUS.	QUATERNARY.
			CLINTON. Niagara and Water Line.	CONFIRMED AND HAMILTON. NEW ALBANY SHALE.	KNOBSTONE AND ROCK- FORD LIMESTONE. BURLINGTON AND KEOKUK. WARSAW AND ST. LOUIS.	DRIFT COAL MEASURES.
ARTHROPODA.						
CLASS CRUSTACEA.						
PALEOSTRACA.						
<i>Acidaspis fimbriata</i> Hall, II.....						
Waldron.						
<i>Asaphus gigas</i> De Kay, 6. (<i>Isotelus gigas</i>).....	X					
Madison (Cornett), Ripley County.						
<i>Asaphus megalurus</i> Locke, 7.....	X					
Ripley County.						
* <i>Calymene blumenbachii</i>						
see <i>Calymene niagarensis</i> .						
<i>Calymene niagara</i> Ulrich.....						
O'good, Ripley County (Miller).						
* <i>Calymene niagarensis</i> Hall, II (<i>C. blumenbachii</i>)	X					
Waldron (Hall), Wabash County, Jefferson County, Fayette County, Ripley County, Miami County and Madison.						
<i>Calymene callicephala</i> Green (<i>C. senaria</i>).....	X					
Richmond (Meek), Franklin County.						
<i>Calymene platys</i> Green.....				X		
Falls of the Ohio (Hall & Clark).						
<i>Calymene senaria</i> Conrad, 10.....						
see <i>C. rallicephalia</i> .						
<i>Ceraurus icarus</i> Billings.....	X					
Richmond (Meek).						
* <i>Ceraurus</i> (<i>Cheirurus</i>) <i>niagarensis</i> Hall, II.....						
Waldron and Marion County (Hall).						
* <i>Cyphaspis christyi</i> Hall, II.....						
Waldron.						
<i>Carinoma ingens</i> Claypole.....						
Kokomo (Claypole).						
<i>Carcinoma nevolini</i> Claypole.....						
Kokomo (Claypole).						
<i>Dalmania calypsa</i> Hall.....						
see <i>Dalmanites calyso</i> .						
<i>Dalmania pleione</i>						
see <i>Dalmanites pleione</i> .						
<i>Dalmania limulurus</i>						
see <i>Dalmanites limulurus</i> .						
<i>Dalmanites anchiopterus</i> var. <i>sobrinus</i> H. & C.....				X		
Falls of the Ohio (Hall & Clarke).						
<i>Dalmanites</i> (<i>Coronura</i>) <i>asperrans</i> Conrad.....				X		
Falls of the Ohio (Hall & Clarke).						
<i>Dalmanites bicornis</i> Hall, II.....			X			
Waldron (James Hall).						
<i>Dalmanites earleyi</i> Meek, 6.....			X			
Madison (Cornett).						
<i>Dalmanites</i> (<i>Chasmopis</i>) <i>calypsa</i> Hall.....				X		
Falls of the Ohio (Hall & Clark).						
* <i>Dalmanites limulurus</i> Green (<i>Dalmania limu-</i> <i>lurus</i>).....						
Madison and Jefferson Counties (Cornett).						
* <i>Dalmanites micrurus</i> Green.....			X			
Louisville, Ky.						
* <i>Dalmanites ohioensis</i> Meek & Worthen.....				X		
Madison and Falls of the Ohio.						
<i>Dalmanites</i> (<i>Cryphaeus</i>) <i>pleione</i> Hall (<i>Dalmania</i> <i>pleione</i>).....			X			
Falls of the Ohio and Jennings County (Hall & Clarke).						

CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUARRY. XARY.
Clinton.		Niagara and Water Line.	Coralliferous and Hamilton.	New Albany Shale.	Drift.
* <i>Dalmanites pleuropteryx</i> Green.....				Knobstone and Rock- ford Limestone.	
Louisville, Ky.				Burlington and Kokuk.	
* <i>Dalmanites verrucosus</i> Hall, 11.....		X		Warsaw and St. Louis.	
Waldron (James Hall).		X		Kashaskin.	
* <i>Dalmanites vigilans</i> Hall, 11.....		X		Mansfield.	
Waldron (James Hall).		X		Coal Measures.	
<i>Enerinurus punctatus</i> Wahlenberg.....					
Hanover (Foerste).					
<i>Euproops colletti</i> White, 13.....					
Vigo County (White).					
<i>Eurypteris kokomoensis</i> Miller & Gurley.....					
Kokomo (Miller & Gurley).					
<i>Eurypteris lacustris</i> Claypole.....					
Kokomo (Claypole).					
* <i>Homalonotus delphinocephalus</i> Green 11.....					
Waldron (James Hall).					
<i>Illaenus ambiguus</i> Foerste.....	X				
Hanover (Foerste).	X				
* <i>Illaenus armatus</i> Hall, 11.....		X			
Waldron (James Hall).		X			
<i>Illaenus daytonensis</i> H. & W.....	X				
Osgood (Foerste).	X				
<i>Illaenus insignis</i> Hall, 6.....	X				
Madison.	X				
<i>Illaenus mudionensis</i> Foerste.....	X				
Osgood (Foerste).	X				
* <i>Illaenus ioxus</i> Hall, 11.....		X			
Renessealre & Waldron.		X			
* <i>Isotelus gigas</i>					
see <i>Asaphus gigas</i> . Richmond.					
<i>Lichas boltoni</i> var. <i>occidentalis</i> Hall, 11.....	X	X			
Waldron (James Hall).	X	X			
* <i>Lichas brevipes</i> Hall, 11.....	X	X			
Waldron & Charlestown (James Hall), Han- over (Foerste).	X	X			
<i>Lycas brynesianus</i> M. & G.....		X			
Madison (Miller & Gurley).		X			
<i>Lichas emarginatus</i> Hall.....	X	X			
Waldron (James Hall).	X	X			
<i>Lichas hanoverensis</i> M. & G.....	X				
Hanover (Miller & Gurley).	X				
* <i>Phacops bufo</i> Green.....			X		
Charlestown, N. Vernon and Falls of the Ohio (Miller & Gurley).			X		
<i>Phacops cristata</i> var. <i>pipa</i> H. & C.....			X		
Falls of the Ohio (Hall & Clarke).			X		
<i>Phacops gallicephalus</i> , 6.....	X				
Madison (Cornett).	X				
* <i>Phillipia bufo</i> M. & W., 10.....				X	
Spergen Hill (Whitfield), Crawfordsville, Jacksonville and Harrison County.				X	
<i>Phillipia doris</i> (Hall), Winch. (<i>Proteus doris</i>) .				X	
Rockford (Herrick), (Hall).				X	
* <i>Phillipia meramecensis</i> Shumard.....				X	
Laneaville and Bloomington.				X	
* <i>Phillipia portlocki</i> M. & W.....				X	
Harrison County and Washington.				X	
<i>Phillipia rockfordensis</i> Wineh.....				X	
Rockford (Herrick).				X	
<i>Phillipia</i> (<i>Griphidites?</i>) <i>sangamonensis</i> M. & W.				X	
Perryville, Eugene, Lodi, Silverwood, New- port and Dubois County (C. A. White)				X	

CINCINNATI.	ORDOVICIAN.	CARBONIFEROUS.			QUATERNARY.
		SILURIAN.	DEVONIAN.	NEW ALBANY SHALE.	
<i>Phillipsia (Griffithides) scitula</i> M. & W., 13.		Clinton.		Kunklestone and Beckford Limestone.	
Perryville, Eugene, Lodi, Silverwood and Newport (C. A. White).		Niagara and Water Lime.		Burlington and Keokuk.	
<i>Phillipsia seminifera</i> Morrison, 8.			Coniferous and Hamilton.	Warsaw and St. Louis.	
Harrison County.					X
* <i>Phillipsia stebensoni</i> Meek.					X
Orange County.					
<i>Ptilodites ohioensis</i> Cozzens.					
Falls of the Ohio (Cozzens).					
<i>Protodus crinaliculatus</i> Hall & Clark.					
Falls of the Ohio (Hall & Clark).					
<i>Protodus clavus</i> Hall.					
Falls of the Ohio (Jas. Hall & J. M. Clarke).					
* <i>Protodus crassimarginatus</i> Hall.					
Falls of the Ohio (Hall).					
† <i>Protodus curvomarginatus</i> H. & C.					
Pendleton (Hall & Clark).					
† Schoharie grit (Hall & Clark).					
<i>Protodus determinatus</i> Foerste.		X			
Ripley County (Foerste).					
<i>Protodus doris</i> Hall.					
see <i>Phillipsia doris</i> .					
† <i>Protodus latinomarginatus</i> H. & C.					
Pendleton (Hall & Clark).					
* <i>Protodus longicaudus</i> Hall.		X			
Falls of the Ohio.					
<i>Protodus micrargenius</i> H. & C.		X			
Falls of the Ohio (Hall & Clark).		X			
* <i>Protodus planimarginatus</i> Meek.					
Madison, Falls of the Ohio.					
EUOSTRACA.					
<i>Macrocaris gorbyi</i> Miller, 18.				X	
West Point.					
ENTOMOSTRACA.					
<i>Aparcheates innotatus</i> Ulrich.			X		
Falls of the Ohio (E. O. Ulrich).					
<i>Barychilina puncto-striata</i> Ulrich.		X			
<i>Barychilina puncto-striata</i> var. <i>custa</i> Ulrich.		X			
Falls of the Ohio (Ulrich).					
<i>Barychilina pulchella</i> Ulrich.		X			
Falls of the Ohio (Ulrich).					
<i>Beyrichia chambersi</i> Miller.	X				
Richmond (Miller).					
<i>Beyrichia granulosa</i> Hall, 11.		X			
Waldron (Hall).					
<i>Beyrichia hammelli</i> M. & F.			X		
Versailles (M. & F.).					
<i>Beyrichia</i> (? <i>Dipriscella</i>) <i>modesta</i> Jones.		X	X		
Falls of the Ohio (Ulrich).					
<i>Beyrichia lyoni</i> Ulrich.			X		
Falls of the Ohio (Ulrich).					
<i>Beyrichia striato-mARGINatus</i> Miller.	X	X			
Osgood (Miller).					
<i>Bolla obesa</i> Ulrich.		?	X		
Falls of the Ohio (Ulrich).					
<i>Bolla pumila</i> Ulrich.	Weisburg.				

CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.		
		CLINTON	Niagara and Water Line.	CORNIERGUS AND HAMILTON.	NEW ALBANY SHALE.	DRIFT.	COAL MEASURES.
<i>Bythocyrpis indiencense</i> Ulrich. Falls of the Ohio (A. E. Ulrich).					Knobstone and Rock- ford Limestone.		
<i>Bythocyrpis punctulata</i> Ulrich. Falls of the Ohio (A. E. Ulrich).					Burlington and Keokuk.		
<i>Ceratopsis chamberlei</i> Miller. Richmond and Versailles (A. E. Ulrich).	x				Warsaw and St. Louis.		
<i>Ctenobolbina</i> (?) <i>Bollia</i> <i>antispinosa</i> Ulrich. Falls of the Ohio (Ulrich).			x		Kaskaska.		
<i>Ctenobolbina informis</i> Ulrich. Falls of the Ohio.			x		Mansfield.		
<i>Ctenobolina papillosa</i> Ulrich. Falls of the Ohio (Ulrich).			x				
<i>Cythere carbonaria</i> Hall. see <i>Leperditia carbonaria</i> .							
<i>Cytherellina glandella</i> Whitfield. see <i>Cytheropsis glandella</i> .							
<i>Cytheropsis glandella</i> Whitfield. Spergen Hill (R. P. Whitfield).							
<i>Entomis madisonensis</i> Ulrich. Madison (Ulrich).	x						
<i>Entomis waldronensis</i> Ulrich. Waldron (Ulrich).		x					
<i>Eurychitina striatomarginata</i> Miller. Osgood (S. A. Miller).	x						
<i>Haliella reticula</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>Labidchia monticola</i> Ulrich. Madison (Ulrich).	x						
<i>Lepta tricarinata</i> Meek & Worthen. Vermillion County (C. A. White), Vigo County.							
<i>Leperditia cavigena</i> Miller. Madison (E. O. Ulrich), Versailles and Osgood (Miller).	x						
<i>Leperditia carbonaria</i> Hall, 12 (<i>Cythere carbonaria</i>). Bloomington and Lanseville, and Washington County.					x		
<i>Leperditia fulva</i> Hall. Waldron (J. Hall).			x				
<i>Leperditia</i> (?) <i>subrotunda</i> Ulrich. Falls of the Ohio (E. O. Ulrich).			x				
<i>Octonaria clavigera</i> Ulrich. Falls of the Ohio (A. E. Ulrich).			x				
<i>Octonaria denovia</i> Ulrich. Falls of the Ohio (A. E. Ulrich).			x				
<i>Octonaria grata</i> Ulrich. Falls of the Ohio (E. O. Ulrich).			x				
<i>Octonaria stigma</i> Ulrich. Falls of the Ohio (E. O. Ulrich).			x				
<i>Octonaria stigma</i> var. <i>locularia</i> Ulrich. Falls of the Ohio (E. O. Ulrich).			x				
<i>Octonaria stigma</i> var. <i>oblonga</i> Ulrich. Falls of the Ohio (E. O. Ulrich).			x				
<i>Pachydromella tumida</i> Ulrich. Falls of the Ohio (A. E. Ulrich).			x				
<i>Streptella quadrilobata</i> var. <i>simplex</i> . Weisburg (Ulrich).	x						
<i>Tetradella quadrilobata</i> H. & W. Richmond and Versailles (Ulrich).	x						

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	CINCINNATI.	CLINTON.	NIAGARA AND WATER LINE.	CORNIFEROUS AND HAMILTON.	NEW ALBANY SHALE.	KNOBSTONE AND ROCKFORD LIMESTONE.
INSECTA.						
<i>Poeciliptera</i> S. I. Smith, 20. French Liek.						
PISCES.						
<i>Antilodus arcuatus</i> N. & W. Greencastle (Newberry).						
<i>Antilodus minutus</i> N. W. Harrison County (Newberry).						
<i>Antilodus similis</i> Newberry & Worthen Harrison County (Newberry).						
<i>Archaeobatis gigas</i> New. Greencastle (Newberry).						
<i>Aspidotus crenulatus</i> Newberry & Worthen see <i>Psephodus crenulatus</i> .						
<i>Chomatodus angustus</i> Newberry. Harrison County (Newberry).						
<i>Chomatodus obliquus</i> Newberry. Harrison County (Newberry).						
<i>Chomatodus pusillus</i> N. & W., 8. Harrison County (Collett).						
<i>Chomatodus selliformis</i> Newberry. Harrison County (Newberry).						
<i>Cladodus gracilis</i> N. & W. Posey County (Newberry & Worthen).						
<i>Genopterus semicircularis</i> N. & W. see <i>Peripristis semicircularis</i> .						
<i>Deltodus cinctus</i> St. John & Worthen Harrison County (Newberry).						
<i>Deltodus grandis?</i> N. & W. Harrison County (Newberry).						
<i>Deltodus spatulatus</i> N. & W. Harrison County (Newberry).						
<i>Diplodus compressus</i> Newberry. Posey County (Newberry & Worthen).						
<i>Diplodus latissimus</i> Newberry Posey County (Newberry & Worthen).						
<i>Edestus heinrichii</i> N. & W. Vermillion County, Parke County (Hitchcock). (Newberry).						
<i>Edestus minor</i> Newberry. Posey County (Newberry & Worthen).						
<i>Helodus conicus</i> Newberry & Worthen. Harrison County (Newberry).						
<i>Helodus laevis</i> Newberry. Harrison County (Newberry).						
<i>Lobodus marginatus</i> . Greencastle (Newberry).						
<i>Lisgodus affinis</i> Newberry. Harrison County (Newberry).						
<i>Macropetalichthys rapheidolabris</i> Norwood & Owen. (Norwood & Owen) Falls of the Ohio.						
<i>Orodus collecti</i> Newberry. Harrison County (Newberry).						
<i>Orodus elegantulus</i> N. & W. Harrison County (Newberry).						
<i>Orodus multicarinatus</i> N. & W. Rockford (Norwood & Worthen).						
<i>Orodus ornatus</i> N. & W. Harrison County (Newberry).						

CINCINNATI.	ORDOVICIAN	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATER-
					Drift.
<i>Orthopleuroodus carbonarius</i> New. & W. Posey County (St. John & Worthen).		Clinton.	Niagara and Water Line.	Knobstone and Rock- ford Limestone.	
<i>Petalodus knappi</i> Newberry			Corniferous and Hamilton.	Burlington and Keokuk.	
Harrison County (Newberry).			New Albany Shale.	Waukegan and St. Louis.	
<i>Peripristis semicircularis</i> N. & W. (<i>Ctenoptychius</i> <i>semicircularis</i>)				Kaskaskia.	
Posey County (Newberry & Worthen).				Mansfield.	
<i>Petodus occidentalis</i> (Newberry & Worthen), 7.				Coal Measures	
Vigo County, Clay County, Vanderburgh County, Owen County.					
<i>Sandalodus minor</i> New. & Worthen (<i>Trigonodus</i> minor)					
Harrison County (Newberry).					
<i>Tremodus regularis</i> St. John & Worthen					
Bedford (St. John & Worthen).					
<i>Thrinacodus bicornis</i> Newberry					
Harrison County (Newberry).					
<i>Trigonodus minor</i> N. & W. see <i>Sandalodus minor</i> .					
<i>Palaphizodus littori</i> N. & W. Greencastle (Newberry).					
<i>Psammodius glyptus</i> St. J. & W. Greencastle (Newberry).					
 MAMMALIA.					
<i>Curicus dolichopsis</i> Cope, 15.					
Harrison County.					
<i>Castoroides ohioensis</i> Foster, 15.					
Richmond, Hancock County, near Green- field, Randolph County (J. Moore), Van- derburgh, Carroll and Kosciusko Counties.					
<i>Ursus virginianus</i> .					
Wabash County.					
<i>Dicotyles nasutus</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>Platyponus compereus</i> Le Conte, 15.					
Laketon, Wabash County.					
<i>Tapirus terrestris</i> ? 15.					
Evansville.					
 PLANTAE.					
<i>Alethopteris grandiflora</i> Newberry, 7.					
Vigo County.					
<i>Alethopteris niagarensis</i> , 7.					
Vigo County.					

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	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.		QUATERNARY.
		CINCINNATI.	CLINTON. Niagara and Water Line.	CORNIFEROUS and HAMILTON.	NEW ALBANY SHALE.	
<i>Annularia longifolia</i> Bronguiart, 10. Vigo County, Shelburn.						
<i>Annularia sphenocephyloides</i> Zuker, 7. Vigo County.						
<i>Astrophytes cortii</i> Lesquereux, 13. New Harmony.						
<i>Asterophyllites equisetiformis</i> Scholtz. Clay County.						
<i>Buthrotrophis gracilis</i> var. <i>crassa</i> Hall, 11. Walron (J. Hall).						
<i>Calamites equiformis</i> Schlotheim, 8. Harrison County.						
<i>Callipteridium sellarum</i> Lesq. (<i>Callipteris sulli-</i> <i>vanti</i>), 1. Spring Creek and Perryville.						
<i>Callipteris sullivanti</i> . see <i>Callipteridium sullivanii</i> .						
<i>Carpolithes fasciculatus</i> Lesq., 8. Harrison County.						
<i>Cauteriptera marginatus</i> Lesquereux, 8. Harrison Co., 7.						
<i>Chondrites colletti</i> Lesquereux, 8. see <i>Taenius colletti</i> .						
<i>Cordaites angustifolius</i> Lesquereux, 8. see <i>Cordaites diversifolius</i> .						
<i>Cordaites horassifolia</i> Sternb., 8. Montgomery County, Vigo County and Clay County.						
<i>Cordaites diversifolius</i> Lesq. (C. <i>angustifolius</i>). Clay County, Vigo County and Harrison County.						
<i>Cyclipteris elegans</i> Lesq., 7. Vigo County.						
<i>Hymenophyllites alata</i> . see <i>Sphaeropora alata</i> .						
<i>Hymenophyllites primatulus</i> Le q., 7. Vigo County.						
<i>Lepidodendron aculeatum</i> Sternberg.						
<i>Lepidodendron ditotomum</i> Sternberg.						
(Orange County (Lesquereux).)						
<i>Lepidodendron diplostegium</i> Lesq.						
<i>Lepidodendron elegans</i> Sternberg, 7. Vigo County.						
<i>Lepidodendron furculatum</i> Lesq.						
<i>Lepidodendron oboratum</i> Sternberg.						
(Orange County.)						
<i>Lepidodendron russellense</i> .						
(Orange County (Lesquereux).)						
<i>Lepidodendron reticulatum</i> Sternberg.						
(Orange County (David White).)						
<i>Lepidophloios macrophyllum</i> Goldf., 13. (Orange County (Lesquereux) Grape Creek.)						
<i>Lepidophyllum bivalvatum</i> Lesq., 8. Harrison County.						
<i>Lepidophyllum imbricata</i> Sternberg? 8. Harrison County.						
<i>Lycopites strictus</i> Lesq.						
<i>Newropteris biformis</i> Lesq.,						
French Lick (David White).						

Coal Measures.
Quater-
nary.
Drift.

	CINCINNATI.	ORDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	COAL MEASURES.	QUATER- NARY.
							DRIFT.
<i>Neuropterus collinus</i> Lesq.							
Vigo County							
<i>Neuropterus eliodii</i> Lesq.							
Orange County (Lesquereux).							
<i>Neuropterus hispida</i> Lesq.							
Shebburn, Sullivan County, Spring Creek, Vermillion County (C. A. White), Vigo County and Clay County.							
<i>Neuropterus loshi</i> Brong., 7							
Vigo County.							
<i>Neuropterus racinaria</i> Bumbury, 10							
Clay County and Vigo County (C. A. White.)							
<i>Neuropterus smithii</i> Lesq., ?							
Orange County (David White).							
<i>Odontopteris subcrenata</i> Bumbury, 10							
Vermillion County (C. A. White), Spring Creek.							
<i>Paleophyllum divaricatum</i> Lesq., 13							
Salt Creek, Vigo County (Lesquereux).							
<i>Paleophyllum gracile</i> Lesq., 13.							
Salt Creek, Vigo County (Lesquereux).							
<i>Paleophyllum lineare</i> Duden							
New Albany							
<i>Paleophyllum willieri</i> Lesq., 13.							
Salt Creek, Vigo County (Lesquereux).							
<i>Paleophyllum new-altheus</i> Duden							
New Albany (Duden).							
<i>Paleopteris corrugatum</i>							
see <i>Spirangioides corrugatum</i> .							
<i>Paleopteris pendrelli</i>							
see <i>Spirangioides pendrelli</i> .							
<i>Parechynophyllum asplundicum</i> Duden							
New Albany (Duden).							
<i>Pecopteris callousa</i>							
see <i>Pseudopeccopteris callousa</i> .							
<i>Pecopteris arboreocens</i> Scholtheim							
Vigo County.							
<i>Pseudopeccopteris callousa</i> Lesq. (<i>Pecopteris</i> <i>callousa</i>)							
Vigo County.							
<i>Pseudopeccopteris latifolia</i> Brongn. (<i>Sphenopteris</i> <i>latifolia</i>)							
Orange County (Lesquereux).							
<i>Pseudopeccopteris auricata</i> Brongn., 13 and 20							
Orange County (Lesquereux) and (David White).							
<i>Rhaeophyllum flabellatum</i> Sternb., 13.							
(Lesquereux.)							
<i>Sigillaria menardi</i> Brongniart, 7							
Vigo County.							
<i>Sigillaria oborata</i> Lesq., 7							
Vigo County.							
<i>Sigillaria oculata</i> Scholtheim, 7							
Vigo County.							
<i>Sigillaria uniformis</i> Brongn., 8							
Harrison County.							
<i>Sphenophyllum emarginatum</i> Brongn., 11							
Warren County.							
<i>Sphenophyllum schlotheimii</i> Brongn., 11							
Vigo and Clay Counties.							
<i>Sphenopteris alata</i> Brongniart (<i>Hymenophylites</i> <i>alata</i>)							
Vigo County.							

	CINCINNATI.	OEDOVICIAN.	SILURIAN.	DEVONIAN.	CARBONIFEROUS.	QUATERNARY.
	Clinton.		Niagara and Water Line.	Corniferous and Hamilton.	New Albany Shale, Knobstone and Rock- ford Limestones, Burlington and Keokuk. Warsaw and St. Louis.	Manfield.
					Kaskaskia.	Drift.
<i>Sphenopteris hoeninghaeisi</i> (Broter.) 20 Orange County (David Whittlesey).						
<i>Sphenopteris latifolia</i> Brongniart see <i>Pseudopteris latifolia</i> .						
<i>Sphenopterus tridactylites</i> Brongn. Orange County (Lesquereux).					X	
<i>Spirangium prendeli</i> Lesq. (<i>Paleoxyris prendelli</i>) Vigo County.						X
<i>Sporangite radiatus</i> Duden, 21 New Albany (Duden).				X		
<i>Stigmaria feodoides</i> Brongn., 8 Monroe and Harrison Counties.						
<i>Stigmaria hightoweri</i> Krantz Crawfordsville					X	
<i>Stigmaria stellata</i> Goeppert, 8 Harrison County.						
<i>Stigmaria undulata</i> Goeppert?, 8 Harrison County.					X	

PART II. BIBLIOGRAPHY OF INDIANA PALEONTOLOGY.

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1873. BORDEN, W. W. Clark and Floyd Counties. Geol. Surv. of Ind., 1873, pp. 134-189.
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1875. BORDEN, W. W. Jennings County. Geol. Surv. of Ind., 1875, pp. 146-180. The more common New Albany Shale fossils found in the county are mentioned.
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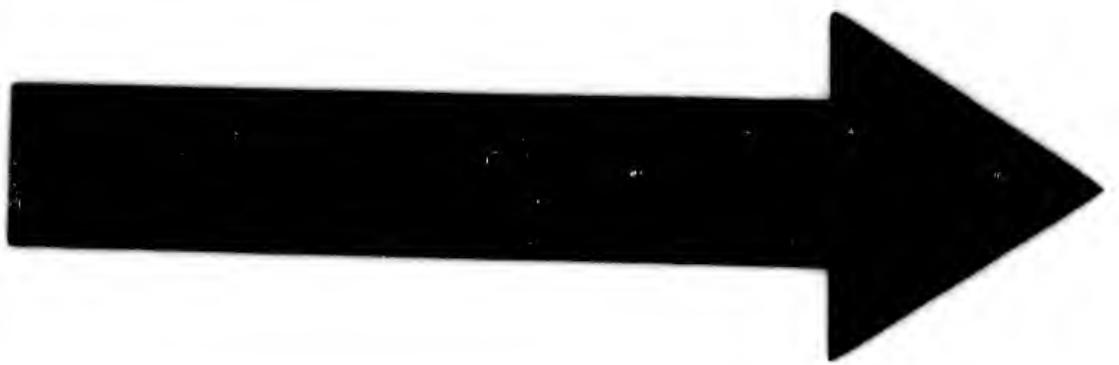
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following species are figured and described from the Falls of the Ohio: *Aviculopecten princeps*, *Pterinopecten reflexus*, *P. nodosus*, *Pterinea grandis*, *Glyptodesma occidentale*, *Limoptera cancellata*. *Pterinea grandis*, a new species from Scott County, is described.

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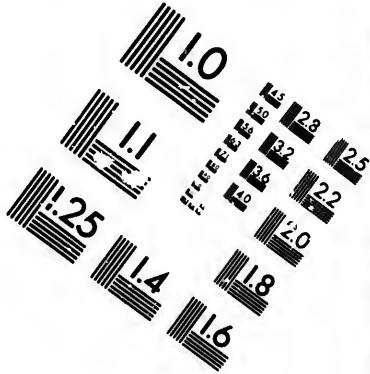
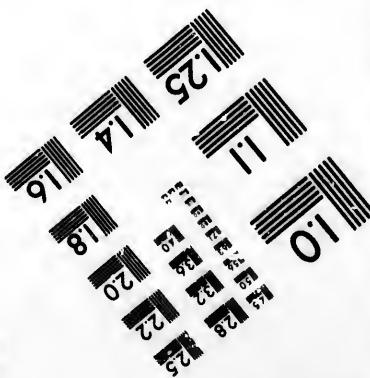
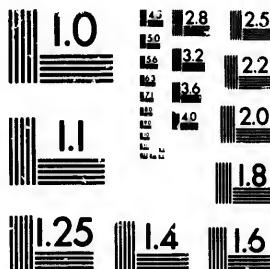


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- Schoharie grit horizon at Pendleton, Indiana, are described. These are *Poetus curvimarginatus* and *P. latimarginatus*. Other new species from the Falls of the Ohio are figured.
1892. HALL, JAS., AND CLARK, J. M. An introduction to the study of 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 calcicola* from the Corniferous Ls.
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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.
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1890. KEYES, C. R. Synopsis of American Carbonic Calyptreidae. 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 retusa*.
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: *Actinoerinus abnormis*, *Dalatocrinus laevis*, *Vasocrinus sculptus*, *Olavanites verneuilii*, *O. angularis*, *Codaster alternatus*.
1859. LYON, SYDNEY S. AND CASSIDAY 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 decadactylus*, *C. hexadactylus*, *Actinoerinus indianensis* and *Onychoerinus excultus*, from Montgomery County, and *Actinoerinus coreyi*, from Washington County.
1859. LYON, S. S., AND CASSIDAY. 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 Geo! 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, *Onychoerinus excultus* and *Megistocrinus 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. McCHESNEY, 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, B. F. Description of new Crinoidea and Echinoidea 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 *Culceocrinus 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 *Homoerinus polydactylus* Shum. from Richmond, Indiana, to *Poteroerinus (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 murei*, 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. Spergen 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 Goniatite 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 Crinoida, 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 *Bryricia*, 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 Hedson River group of Indiana are described; these are *Cyrtolites magnus*, *Murchisonia multigranata*, *Cyrtoceras amoenum* and *Angelum cuneatum*.
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*, *Pisoerinus 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 *Polaraster crafordsvilleensis* 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 *Poterioocrinus davissans* and *P. nettlerothianus*, 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: *Agaricoocrinus splendens*, *Onychoocrinus ulrichi*, *Batocrinus ulrichi*, *Batocrinus marinus*, *B. jucundus*, *Poterioocrinus granilinus*, *P. crawfordsvillensis*, *Scaphioocrinus 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 byrnesianus*, *Lingula indianensis*, *Conularia graciosa*, *C. spongensis* 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. Ci. Soc. Nat. Hist., Vol. 1, 1878, pp. 24-39, pls. 1-2. Three new species from Waldron are described—*Codaster pulchellus*, *Eucalyptocrinus tuberculatus*, and *Spirijera(?) 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. Ci. 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. Ci. Soc. Nat. Hist., Vol. 17, 1894, pp. 137-158, pl. 7 and 8. The authors describe the following new species from Indiana: *Gomphoceras indianensis*, *Hyolithes versaillesensis*, *Hyolithes(?) dubius* and *Berychia hammelli*.
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*, *Oroodus 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*, *Ctenoptychius semicircularis*, *Edestus minor*—and one from Rockford, *Oroodus multicarinatus*.
1889. NETTLEROOTH, 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 *Macropetalichthys rapheolobabis*, from the Corniferous.
1858. NORWOOD, J. G., AND PRATT, 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 PRATT, 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 reconnaissance 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*, *Ceriopora lyra*, *Lithostrotion canadense*, *Pileopis pubulocrinus*, *Conularia craufordsvillensis*. 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 "pisolithic balls" which have since been described by S. A. Miller as a sponge, *Stomatocerium 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—*Semicosecium rhomboideum*, *Limaria falcata* and *Semicosecium 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. spurgensis*.
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.
- . SHAHER, 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. I, pp. 71-80, pl. 1. Describes and figures *Hemicrinus 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—*Cyathaster pyramidatus*, *C. americanus*, *Pentremites grossenore*.
1871. SMITH, S. L. 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, *Parilia retusa*, 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 pannulus* from Bergen Hill (Spergen Hill?).
1883. ST. JOUX, ORESTES, AND WORTHEX, A. H. Descriptions of fossil fishes. Geol. Survey of Ill., Vol. VII, 1893, pp. 57-264. Records *Taeniodus regularis* nov. sp. from Bedford, and *Ortholeuroodus carbonarius* (N. and W.) from Posey County.
1886. THOMPSON, MAURICE. 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, MAURICE. 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. A 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. Cinc. Soc. Nat. Hist., Vol. II, No. 2, pp. 131-134, 1879. Describes and figures *Olymene nasuta* 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 *Tellinomyia 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—*Rhynchonella greeniana*—and a new species of foraminifera—*Moelerina greenei*.
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: *Ichyrodonta miseneri*, *Ichyrodonta modioliformis*, *Modiolodon subrectus*, *M. declivis*, *M. subovalis*, *Chionychia 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 *Bussonychia tenuistriata*, *Modiolopsis concentrica* Hall. & Whit., *Orthodesma canaliculatum* Ulrich, *Whitella obliquata* Ulrich.
1847. VERNEUIL, ED. DE. Note sur le parallisme des roches des depots paleozoiques de l'Amérique Septentrionale avec ceux de l'Europe, suive d'un tableau des especes fossiles communes aux deux continents, avec l'indication des etages on elles se rencontrent, et terminee par un examen critique de chacune de ces especes. 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 *Batoocrinus 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. II¹ (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*, *Scaphocrinus gibsoni*, *Lepidesthes colletti* and *Scaphocrinus 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—*Uphantaenia 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 *Prolarea vetusta*.
1884. WORTHEN, A. H. Descriptions of two new species of Crustacea, fifty-one species of Mollusca, and three species of Crinoids from the Carboniferous formation of Illinois and adjacent States. Bull. No. 2, Ill. State Mus. Nat. Hist., 1884, pp. 1-27. The following new species from Crawfordsville are described without figures: *Sanguinolites? multistriatus*, *Ariaculopesten spiniferous*, *A. colleti* and *Batoeinus montgomeryensis*.
1889. WORTHEN, A. H. Catalogue of American Paleozoic fossils: the collection of Prof. A. H. Worthen, deceased. pp. 1-75, Warsaw, Ill., 1889. This collection, which is now the property of the State of Illinois, includes about 752 types, 240 of which are Crinoids. Many of the specimens are from Indiana.

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