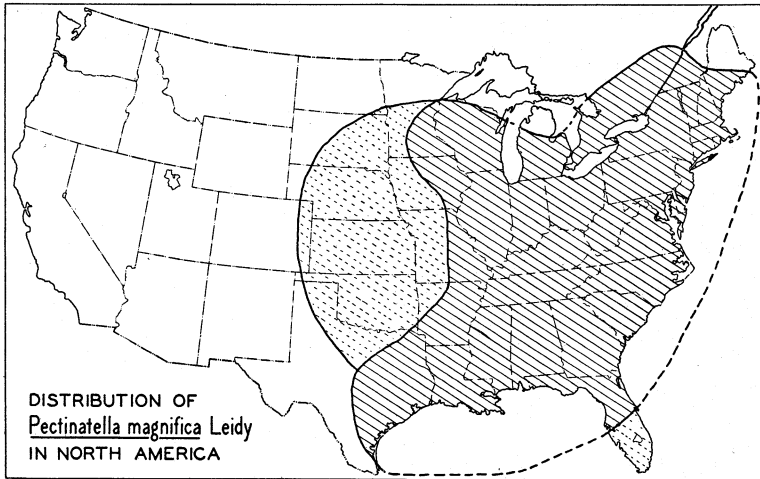


## THE DISTRIBUTION OF PECTINATELLA MAGNIFICA LEIDY IN THE UNITED STATES

*S. W. Geiser*

In 1851, Leidy described from the Schuylkill River near Philadelphia, the interesting Bryozoan, *Pectinatella magnifica*. Since then, it has been recorded from a number of other localities in America and Europe. The exact distribu-



tion, however (for America, at least) is still only partially known. Brown<sup>1</sup> has recently published a careful study of the biology of this species; and the present writer has studied, since 1928, the distribution of this species in Iowa, as well as its periodicity of abundance<sup>2</sup>.

<sup>1</sup>Brown, C. J. D. "A limnological study of certain fresh-water Polyzoa, with special reference to their statoblasts", *Trans. Amer. Micr. Soc.*, 52:271-316, October, 1933.

<sup>2</sup>Papers covering this work were reported at meetings of the Texas Academy of Science, Oct. 20-21; and the North Texas Biological Society, March 3, 1934.

The recent finding of the species in the Southwest (in Lake Worth, at Fort Worth, by Dr. B. B. Harris; and in Caddo Lake, by Dr. E. P. Cheatum and Professor Mayne Longnecker), greatly extends our knowledge of the range of the species, and makes desirable the putting on paper what is known of the distribution of this interesting species. The data given below are in extension of the localities that have, in various places in the literature, been given for this species in the United States and Canada. They are the results of letters sent to a large number of active field-zoölogists during the last year. I have, for brevity's sake, arranged the data alphabetically by states.

**Alabama.** Lauderdale County, Lake Wilson. (M. M. Ellis)

**Colorado.** No records; "probably not seriously looked for." (T. D. A. Cockerell)

**Connecticut:** Observed. (R. C. Osburn)

**Florida.** Alachua County: Lake Warburg, near Gainesville; Frieze's pond, 1 m. northwest of Gainesville; Sink hole, near Paynes Prairie, 5 m. southeast of Gainesville; Marion County: Orange Lake, 30 m. south and east of Gainesville. (T. VanHyning)

**Georgia.** No records. (George H. Boyd)

**Illinois.** Mason County: Cut-offs of Illinois River at Havana (J. G. Needham); Practically all streams that are moderately deep and have little current. Backwater lakes, ponds and canals are especially favorable. Fluctuates in abundance, from year to year. (H. J. VanCleave)

**Indiana.** Observed (R. C. Osburn); Kosciusko County. Warsaw and Winona Lake (Will Scott); Monroe County, Salt Creek. (Will Scott)

**Iowa.** Buchanan County: Independence. (S. W. Geiser); Louisa County: Wapello, on Iowa River (J. J. Hinman, Jr.); Linn County: Cedar Rapids (Hinman); "not found in Lake Okoboji, Dickinson County, although especially looked for" (F. A. Stromsten).

**Kentucky.** Common in suitable waters in central and western Kentucky, Benson Creek at mouth, 1915 and earlier (large masses in 1915, brought home for study), in bayous of Dix River, produced by dam (H. Garman).

**Louisiana.** Parish St. John Baptist: Lac des Allemands (Percy Viosca, Jr.); St. Tammany Parish: Tchefuncte River, near mouth (Viosca, I. E. Gray, M. D. Burkenroad, E. S. Hathaway); throughout state south of 31st parallel (Viosca), and probably throughout state of Louisiana (Viosca).

**Maine.** Penobscott County: Pushaw Lake region (D. B. Young).

**Maryland.** Baltimore County: Druid Hill Lake, 1903 (R. P. Cowles), 1923 in great abundance (E. A. Andrews); Lake Rowland (E. A. Andrews).

**Massachusetts.** Barnstable County: Woods Hole (I. E. Gray).

**Michigan.** Berrien County: in Lake Michigan, near St. Joseph, Mich.; Washtenaw and Wayne Counties: Huron River (C. J. D. Brown); many other localities in southern Michigan (Brown); no colonies or statoblasts found in upper part of Lower Peninsula in three years' careful collecting (Brown).

**Minnesota.** Washington and Chicago Counties: St. Croix River sloughs (Samuel Eddy); Dakota County: Mississippi River (Eddy); observed in state (R. C. Osburn); not found, so far, in inland lakes of Minnesota (Eddy).

**Mississippi.** Lowndes County: Columbus [Leidy, 1851, 1858]; Pearl River drainage, Apr. 9, 1928 (I. E. Gray).

**Mississippi River.** Lake Keokuk, 1929-33, Lee County, Iowa (M. M. Ellis); Cairo, Pulaski County, Illinois to Wabasha, Wabasha County, Minnesota (Ellis); Redwing, Goodhue County, Minnesota (Ellis); near Hastings, Dakota County, Minnesota (Ellis); near Waukon Junction, Allmakee County, Iowa, 1870 (Ellison Orr).

**Missouri.** St. Louis County: Oxbow lakes along Missouri River northwest of St. Louis, 1922-24 (S. W. Geiser); Howard County: Fayette, no record (F. B. Isely); Lewis County: Canton, no record (Isely).

**Nebraska.** No records for state. *Plumatella* very abundant in ponds in Lancaster County, Lincoln (R. H. Wolcott).

**New Jersey.** Camden County: South branch Timber Creek, Greenloch (A. E. Ortman, in Carnegie Museum); Observed (R. C. Osburn); Collected (E. E. Reinke).

**New York State.** Oneida County: Crystal Creek (W. D. Edmonds, in New York State Museum); Washington County; Copeland Pond, West Fort Ann (S. H. Burham, N. Y. S. M.); Yates County: West River inlet to Canandaigua Lake (S. C. Bishop, N. Y. S. M.); Tomkins County: Bayous at head of Cayuga Lake at Ithaca, common (J. G. Needham); observed (R. C. Osburn).

**North Carolina.** Orange County: Chapel Hill, no record (H. V. Wilson); Wake County: several localities near Raleigh (Z. P. Metcalf).

**Ohio.** Often very abundant in shallow ponds and back-waters; and in various Ohio lakes (R. C. Osburn).

**Oklahoma.** Cleveland County: no records at Norman (A. I. Ortman); not found in state (F. B. Isely).

**Ontario.** Parry Sound Region: Noganosh Lake, Pakeslay (E. C. Irwin, Carneg. Mus.); Essex District: near Windsor (C. J. D. Brown); Lanark District: Ferguson Lake, Mississippi River, west of Ottawa (R. M. Anderson); south of Ottawa, Rideau River (D. Leechman); Essex District: Pelee Island, Lake Erie (R. C. Osburn).

**Pacific Coast of North America.** Occurs occasionally in permanent reservoirs (C. A. Kofoid); not encountered in southern California (J. G. Needham); Never encountered (James E. Lynch); not so far encountered (Paul R. Needham); Only once; near campus of University of Oregon, at Eugene (H. B. Yocom); not in central British Columbia (D. Leechman); not encountered (Harold Heath).

**Pennsylvania.** Crawford County: Conneaut Lake, Exposition Park (A. E. Ortmann, Carneg. Mus.).

**South Carolina.** Richland County: very abundant in backwaters of Lake Murray, at Columbia, summer of 1933 (M. M. Ellis).

**South Dakota.** Never found in three summers' field work of the State Game and Fish Survey (E. P. Churchill).

**Tennessee.** Obion County: Reelfoot Lake (A. E. Ortmann, Carneg. Mus.); not observed in state (E. B. Powers).

**Texas.** Tarrant County: Lake Worth, near Ft. Worth, Oct. 29, 1933 (B. B. Harris); Marion and Harrison Counties: Caddo Lake, near Jefferson (E. P. Cheatum and W. M. Longnecker, 1933).

**Vermont.** Chittenden County: widely distributed in the Burlington region.

**Virginia.** Albemarle County: Charlottesville, not found (W. A. Kepner).

**West Virginia.** Jackson County: In Mill Creek six miles west of Ripley, on rocks in stream bed and in pool below dam (J. G. Needham).

The accompanying map shows the present-known distribution of the species.

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## NOTES ON TEXAS CRUSTACEA

*S. W. Geiser*

4. *Apus lucasanus* Packard in *Western Texas*. Four specimens tentatively identified as this species, collected near Odessa, Ector County, were sent to the United States National Museum in October, 1929, and the identification verified by Professor G. S. Dodds. Pearse, in Ward & Whipple (p. 672), notes correctly its wide distribution, and that so far it had been reported only from Lower California and Kansas.

5. *A Large Macrobrachium jamaicense*, (Herbst) from *Texas*. Following my note on the freshwater prawns (*Palaeomonidae*) of Texas<sup>5</sup>, Dr. Waldo L. Schmitt, of the United States National Museum, has published a valuable paper on

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<sup>5</sup>Note 1, *ut supra*, folio 7. [April 22, 1933.]