

RECORD OF BEES FROM BRITISH COLUMBIA (*Andrenidae*)¹

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This list of 56 bees of the family Andrenidae has been compiled from a collection in the Field Crop Insect Laboratory, Kamloops, and material loaned by Professor G. J. Spencer of the University of British Columbia.

The Andrenidae, or acute-tongued burrowing bees, are solitary, constructing their burrows and cells in the ground. Although solitary, some species congregate in regular colonies. Sometimes a clay or silt cliff will contain innumerable burrows in close proximity. Their cells are stocked with nectar and pollen and these bees are beneficial plant pollinators. Willow blossoms are particularly attractive to Andrenidae, and a majority of the specimens collected in April and May by the author were taken visiting willow.

The names are arranged alphabetically and the collection points are listed, numbered, and placed on the accompanying map. Some localities have been heavily collected, while other areas, particularly in northern British Columbia, have had little or no attention, and the distribution record therefore, is far from complete.

The collectors are designated by initials only in the text, but a list of their names is included at the end of the paper.

The author wishes to thank Mr. P. H. Timberlake, Agricultural Experiment Station, University of California, Riverside, and Mr. U. N. Lanham, University of California, Berkeley, California, for the determination of material; and Professor G. J. Spencer for the loan of his collection.

Family ANDRENIDAE
Subfamily ANDRENINAE
Genus *ANDRENA* Fabricius

***Andrena albihirta* (Ashmead)**

KASLO, April 7, 1907, 1♂; April 13, 1913, 1♂ (L.W.C.). PENTICTON, April 12, 2♀, 21, 1♂ 1♀, 30, 1♂, 1919; April 9, 6♂, 24, 18♀, 1929 (E.R.B.). VERNON, April 17, 1930, 2♀.

April 5, 1939 1♀ (E.R.B.): April 9, 1925, 1♀ (M.H.R.). MINNIE LAKE, May 19, 1943, 1♀ (E.R.B.). CHILCOTIN, May 4, 1921, 1♂ (E.R.B.). VANCOUVER, March 22, 1♂, April 4, 1♂, 1903; March 25, 1906, 1♂ (R.C.T.).

***Andrena amplificata* Cockerell**

PENTICTON, May 2, 1919, 1♀; April 24, 1929, 1♀ (E.R.B.): April 8, 1920, 1♀ (M.H.R.). KELOWNA, April 8, 1930, 1♂ (E.R.B.). VERNON, April 29, 1930, 3♀ (E.R.B.): April 20, 1920, 1♀ (R.C.T.). MINNIE LAKE, May 19, 1943, 2♀ (E.R.B.). DOUGLAS LAKE, April 23, 1930, 4♀ (E.R.B.). CHILCOTIN, June 15, 1920, 2♀; May 15, 1921, 1♀; May 28, 1929, 2♀ (E.R.B.).

***Andrena bella* Viereck**

KASLO, April 16, 1907, 1♀ (L.W.C.).

***Andrena binarea* Viereck**

VERNON, May 19, 1928, 1♀ (P.N.V.).

***Andrena buckelli* Viereck**

PENTICTON, May 5, 1920, 1♂ (M.H.R.): April 24, 1929, 1♀ (E.R.B.). VERNON, May 1, 1929, 1♀; April 25, 1932, 1♀ (E.R.B.). KAMLOOPS, April 18, 1929, 1♀ (E.R.B.).

***Andrena candida* Smith**

PENTICTON, April 9, 1♂; 24, 2♀, 1929 (E.R.B.). KAMLOOPS, April 18, 1929, 2♀ (E.R.B.).

***Andrena chlosura* Cockerell**

NANAIMO, May 11, 1930, 1♀ (G.J.S.).

***Andrena cleodora* (Viereck)**

KASLO, June 10, 1906, 1♀ (L.W.C.). PENTICTON, June 5, 1920, 1♀ (M.H.R.).

***Andrena colletina* Cockerell**

CHILCOTIN, April 16, 1921, 2♀ (E.R.B.).

***Andrena crataegi* Robertson**

PENTICTON, May 9, 1919, 1♀ (E.R.B.). VERNON, June 5, 1923, 2♀ (M.H.R.): May 16, 1927, 1♀ (D.G.G.): May 31, 1929, 1♂; April 29, 1930, 1♀ (E.R.B.). SALMON ARM, May 1, 1922, 2♂; July 4, 1943, 1♀ (E.R.B.).

***Andrena cressonii* Robertson, subsp.**

VERNON, May 20, 1904, 1♂; May 16, 1920, 1♀ (E.P.V.): April 22, 1929, 1♂ (I.J.W.): May 1, 1929, 1♂ (E.R.B.). SALMON ARM, July 4, 1943, 6♀ (E.R.B.). VANCOUVER, May 23, 1930, 1♀ (H.B.L.).

***Andrena epileuca* Cockerell**

KASLO, May 22, 1910, 1♀ (L.W.C.). CRESTON, May 17, 1926, 1♀ (A.A.D.). VERNON, June 1, 1913, 1♀ (E.P.V.). KAMLOOPS, June 13, 1943, 1♀ (E.R.B.). VANCOUVER, June 3, 1943, 1♀ (E.R.B.).

***Andrena errans* Smith**

OLIVER, May 4, 1943, 1♀ (E.R.B.). PENTICTON, April 30, 1♀; Oct. 30, 1♀, 1920 (E.R.B.). VASEAUX LAKE, June 14, 1919, 1♀ (E.R.B.). NARAMATA, May 2, 1920, 1♂ (M.H.R.). VERNON, April 25, 1932, 1♂ (E.R.B.). SALMON ARM, May 14, 1929, 1♀ (H.B.L.). KAMLOOPS, June 13, 1943, 1♀ (E.R.B.). MINNIE LAKE, June 19, 1930, 1♀;

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- May 19, 1943, 1♂ 1♀ (E.R.B.). CHILCOTIN. June 13, 1921, 3♀; May 28, 1♂ 6♀; June 14, 1♀, 1929; June 5, 1♂ 3♀, June 14, 1♀, 1930; April 28, 1944, 1♀ (E.R.B.). YALE, May 30, 1943, 1♀ (E.R.B.). MILNER, May 25, 1930, 1♀ (K.G.). VANCOUVER, May 22, 1930, 1♀ (G.J.S.): May 23, 1930, 1♀ (H.B.L.): June 3, 1943, 1♀ (E.R.B.). LADYSMITH, June 18, 1♀; June 30, 1♀, 1930 (G.C.C.).
- Andrena erythrogaster** (Ashmead)
CHILCOTIN, May 27, 1929, 8♀; May 3, 1930, 1♀ (E.R.B.). VERNON, April 18, 1929, 1♂ (I.J.W.).
- Andrena extensa** Viereck
VERNON, May 9, 1930, 2♀ (E.R.B.).
- Andrena flavoclypeata** Smith
VERNON, April 18, 1923, 1♂ (M.H.R.).
- Andrena forbesii** Robertson
KASLO, May 2, 1906, 1♂ (L.W.C.). KELOWNA, May 28, 1921, 1♀ (M.H.R.). VERNON, May 1, 1♂; June 4, 1♀, 1929 (E.R.B.).
- Andrena sp. near fulvinigra** Viereck & Cockerell
OKANAGAN FALLS, April 24, 1920, 1♀ (M.H.R.). PENTICTON, April 24, 1929, 1♀ (E.R.B.).
- Andrena gibbiris** (Viereck)
PENTICTON, April 11, 1919, 1♀; April 24, 1929, 1♀ (E.R.B.). KAMLOOPS, April 17, 1943, 1♀ (E.R.B.). CHILCOTIN, May 27, 1929, 1♀ (E.R.B.).
- Andrena grandior** Cockerell
CHILCOTIN, June 14, 1929, 1♀ (E.R.B.).
- Andrena harveyi** Viereck
VICTORIA, June 14, 1917, 1♀.
- Andrena indecisa** Cockerell
CRANBROOK, Aug. 15, 1928, 1♂ 3♀ (A.A.D.). INVERMERE, July 18, 1928, 1♀ (A.A.D.).
- Andrena medionitens** Cockerell
CHILCOTIN, June 13, 1929, 1♀ (E.R.B.).
- Andrena melanochroa** Cockerell
SALMON ARM, April 19, 1919, 1♂ (W.R.B.).
- Andrena microchlora subalia** Cockerell
OLIVER, May 4, 1943, 1♀ (E.R.B.). VERNON, April 26, 1920, 2♀ (R.C.T.): April 6, 1925, 1♀ (M.H.R.).
- Andrena milwaukeensis** Green
PENTICTON, May 9, 1919, 3♀ (E.R.B.).
- Andrena miranda** Smith
KASLO, May 14, 1906, 1♀ (L.W.C.). VERNON, May 1, 1929, 19♀ (E.R.B.): May 3, 1907, 1♀; May 6, 1913, 1♀ (E.P.V.): May 5, 1921, 1♀ (M.H.R.).
- Andrena montrosensis** Viereck & Cockerell
OKANAGAN FALLS, June 3, 1919, 1♀ (E.R.B.). PENTICTON, April 6, 1♀; May 15, 1♂; June 4, 1♀; June 5, 1♂, 1919 (E.R.B.). SUMMERLAND, June 4, 1919, 1♀ (E.R.B.). VERNON, May 1, 1908, 1♀ (E.P.V.): May 1, 1929, 1♂; May 9, 5♀; May 25, 1♀, 1930; May 17, 1937, 1♀ (E.R.B.). KAMLOOPS, June 13, 1943, 1♂ 7♀ (G.J.S.). CHILCOTIN, May 28, 1921, 1♀; June 13, 1929, 5♀ (E.R.B.). AGASSIZ, Sept. 11, 1925, 1♂ (G.J.S.).
- Andrena nivalis** Smith
KASLO, May 28, 1♂ 1♀; June 2, 1♀, 3, 1♀; July 17, 1♀, 1906 (W.L.C.). SAANICH, June 25, 1917, 2♀ (W.D.).
- Andrena nubicula** Smith
VERNON, Aug. 14, 1942, 1♀ (E.R.B.).
- Andrena pallidifovea** Viereck
VERNON, May 3, 1♂, July 20, 1♂, 1912 (E.P.V.). YALE, May 30, 1943, 1♀ (E.R.B.).
- Andrena perarmata** Cockerell
PENTICTON, April 24, 1929, 7♀ (E.R.B.). VERNON, March 31, 1930, 2♂ (E.R.B.).
- Andrena placida** Smith
KASLO, May 15, 1910, 1♀ (L.W.C.). OSOYOOS, May 8, 1928, 1♀ (E.R.B.). PENTICTON, April 11, 1919, 1♀ (E.R.B.). VERNON, May 3, 1907, 1♀; May 1, 1913, 1♀ (E.P.V.): April 22, 1929, 1♀ (I.J.W.): May 31, 1929, 1♀ (E.R.B.). CHILCOTIN, May 15, 1921, 1♀; May 24, 1929 (E.R.B.).
- Andrena sp. near politissima** Cockerell
PENTICTON, April 6-21, 1919, 4♂ 2♀ (E.R.B.). KELOWNA, April 8, 1930, 2♂ (E.R.B.). VERNON, April 17, 1929, 1♂ (I.J.W.): April 17, 1930, 1♀ (E.R.B.): April 13, 1907, 4♀ (E.P.V.). KAMLOOPS, April 18, 1929, 3♂ 2♀; April 17, 1943, 1♂ 1♀ (E.R.B.). NICOLA, May 3, 1943, 1♂ 2♀ (E.R.B.). MINNIE LAKE, May 19, 1943, 1♂ 1♀ (E.R.B.). CHILCOTIN, June 13, 1921, 1♀; May 27, 2♀; May 28, 1♀, 1929 (E.R.B.).
- Andrena prunorum kincaidii** Cockerell
KASLO, May 24, 1905, 1♂; June 5, 1♀, 10, 1♀, 30, 1♂, 1906 (L.W.C.). CRANBROOK, May 12, 1926, 1♀ (A.A.D.). OSOYOOS, May 8, 1928, 1♀ (E.R.B.). OLIVER, April 25, 2♂; May 4, 1♂, 1919 (E.R.B.). PENTICTON, April 11, 1♂, 17, 1♂; May 5, 1♂, 1919; April 24, 1929, 1♀ (E.R.B.). VERNON, June 15, 1918, 1♀, May 14, 1♂, June 6, 1♂, 1921; July 6, 1922, 1♀ (D.G.G.): May 31, 2♂ 1♀; June 4, 3♂ 1♀, 1929; April 29, 1♀; May 9, 8♂, 1930 (E.R.B.). SALMON ARM, July 4, 1943, 3♀ (E.R.B.). KAMLOOPS, July 23, 1939, 1♂ (G.J.S.): April 17, 1943, 1♀ (E.R.B.). NICOLA, May 2, 1943, 1♂ (E.R.B.). WALLACHIN, July 10, 1♀, 16, 3♀, 23, 1♀, 1918 (E.R.B.). CHILCOTIN, April 16, 1921, 1♀; June 13, 1929, 1♀ (E.R.B.). AGASSIZ, June 6, 1939, 1♂ (A.B.D.). VANCOUVER, May 23, 1930, 1♀ (H.B.L.). VICTORIA, June 8, 1916, 1♀; June 17, 1917, 1♀ (R.C.T.): April 8, 1916, 1♀ (H.H.). SAANICH, June 15, 1917, 1♀ (W.D.).
- Andrena pyrrhacita** Cockerell
PENTICTON, April 4, 1♀, 8, 1♀, 12, 3♀, 1919 (E.R.B.). KAMLOOPS, April 17, 1943, 5♀ (E.R.B.). NICOLA, May 3, 1943, 4♀ (E.R.B.). CHILCOTIN, May 4, 1♀, 9, 3♀, 1921; May 27, 1929, 1♀ (E.R.B.).
- Andrena regularis** Cockerell
YALE, May 30, 1943, 1♀ (E.R.B.).
- Andrena runcinatae** Cockerell
KASLO, Aug. 19, 1906, 1♂ (L.W.C.). INVERMERE, July 18, 1928, 1♀ (A.A.D.).

Andrena saccata Viereck

KASLO, May 4, 1905, 1 ♀; May 6, 1 ♀, 10, 1 ♀, 30, 1 ♀; June 3, 1 ♀, 1906 (L.W.C.).
 PENTICTON, May 9, 1919, 1 ♀ (E.R.B.).
 CHILCOTIN, June 13, 1929, 1 ♀ (E.R.B.).

Andrena salicifloris Cockerell

KASLO, May 18, 1905, 1 ♂; May 5, 1908, 1 ♂;
 May 1, 1910, 1 ♂ (L.W.C.). VERNON, April
 13, 1907 (E.P.V.): April 24, 1929, 1 ♀;
 April 17, 1930, 3 ♂ 2 ♀ (E.R.B.). SALMON
 ARM, April 26, 1943, 1 ♂ (E.R.B.).

Andrena salictaria Robertson

VERNON, April 4, 1904, 1 ♀ (E.P.V.): April
 22, 1929, 1 ♀ (I.J.W.). DOUGLAS LAKE, April
 23, 1930, 1 ♀ (E.R.B.).

Andrena seneciophila Cockerell

VERNON, May 20, 1904, 1 ♀ (E.P.V.): May
 4, 1 ♀, 31, 1 ♀, 1929 (E.R.B.). SALMON
 ARM, May 26, 1943, 1 ♀ (E.R.B.). CHIL-
 COTIN, May 28, 1921, 1 ♀; May 28, 1929,
 1 ♀ (E.R.B.).

Andrena sladeni Viereck

PENTICTON, April 24, 1929, 3 ♀ (E.R.B.).
 VERNON, May 9, 1930, 2 ♀; May 17, 1937,
 1 ♀ (E.R.B.).

Andrena sola Viereck

PENTICTON, April 24, 1929, 1 ♀ (E.R.B.).

Andrena striatifrons Cockerell

FAIRVIEW, May 4, 1919, 1 ♀ (E.R.B.). PEN-
 TICTON, April 7, 1 ♂, 17, 1 ♀, 21, 3 ♂, 23,
 1 ♀; April 24, 1929, 1 ♀ (E.R.B.). KELOWNA,
 April 8, 1930, 1 ♂ (E.R.B.). VERNON, April
 14, 1907, 1 ♂ (E.P.V.): April 17, 1929, 1 ♂
 1 ♀ (I.J.W.): April 17, 1930, 4 ♀ (E.R.B.).
 KAMLOOPS, April 18, 1929, 3 ♂ 2 ♀; April
 17, 1943, 4 ♂ (E.R.B.). NICOLA, May 3, 1943,
 2 ♂ 4 ♀ (E.R.B.). MINNIE LAKE, May 19,
 1943, 1 ♂ 4 ♀ (E.R.B.). CHILCOTIN, May 9,
 2 ♀, 13, 7 ♀, 1921; May 27, 1929, 3 ♀
 (E.R.B.).

Andrena subaustralis Cockerell

KAMLOOPS, April 17, 1943, 1 ♀ (E.R.B.).

Andrena subtilis Smith

KASLO, May 6, 1910, 1 ♂ (L.W.C.). OLIVER,
 May 4, 1943, 3 ♂ 4 ♀ (E.R.B.). FAIRVIEW,
 May 18, 5 ♀, 19, 1 ♀, 1919 (E.R.B.): April
 20, 1 ♀; May 18, 5 ♀, 1920 (M.H.R.).
 OKANAGAN FALLS, May 13, 1920, 1 ♀
 (M.H.R.). KELOWNA, May 28, 1921, 2 ♀
 (M.H.R.). PENTICTON, April 24, 1929, 1 ♂
 (E.R.B.). VERNON, April 22, 1904, 1 ♂; 15,
 1906, 3 ♂; May 3, 1907, 3 ♂; May 27, 1913,
 2 ♂ (E.P.V.): April 26, 2 ♀; May 1, 1 ♂,
 1920 (R.C.T.): April 14, 1921, 1 ♂; May 7,
 1921, 1 ♂ (M.H.R.): April 18, 1 ♂, 22,
 3 ♂, 24, 1 ♀ (I.J.W.): May 31, 3 ♀; June
 4, 1 ♀, 1929 (E.R.B.). KAMLOOPS, June
 13, 1943, 4 ♀ (G.J.S.). NICOLA, May 2, 1943,
 2 ♀ (E.R.B.). LYTTON, May 30, 1943, 1 ♀
 (E.R.B.). 100 MILE HOUSE, June 14, 1943,
 1 ♀ (E.R.B.). VANCOUVER, June 3, 1943, 1 ♀
 (E.R.B.).

Andrena surda Cockerell

INVERMERE, July 29, 1926, 1 ♀ (A.A.D.).
 OLIVER, July 10, 1929, 1 ♀ (E.R.B.).

Andrena swenki Viereck & Cockerell

VERNON, May 1, 1920, 1 ♀ (M.H.R.). CHIL-
 COTIN, May 15, 1921, 1 ♀; June 13, 1929,
 1 ♀ (E.R.B.).

Andrena transnigra Viereck

KASLO, June 5, 1906, 1 ♀ (L.W.C.). OLIVER,
 May 4, 1943, 1 ♀ (E.R.B.). KAMLOOPS, June
 13, 1937, 1 ♀ (G.J.S.). MINNIE LAKE, May
 19, 1943, 1 ♀ (E.R.B.). SALMON ARM, May
 17, 1914, 1 ♀; April 11, 1915, 1 ♀ (W.R.B.).
 CHILCOTIN, June 13, 1921, 2 ♀; May 28, 1929,
 4 ♀; June 5, 1930, 1 ♀ (E.R.B.).

Andrena trevorisi Cockerell

DEPARTURE BAY, June 9, 1 ♂, 24, 1 ♂, 1925
 (G.J.S.). NEWCASTLE IS., NANAIMO, June
 1925, 1 ♂ (G.J.S.).

Andrena vicina Smith

KASLO, May 14, 1906, 1 ♂ (L.W.C.). FAIR-
 VIEW, May 18, 1919, 3 ♀ (E.R.B.); May 19,
 1920, 1 ♀ (M.H.R.). PENTICTON, April 6,
 1919, 1 ♀ (E.R.B.): April 30, 1 ♂ 1 ♀; May
 10, 1 ♂, 1920 (M.H.R.). KELOWNA, May 28,
 1921, 1 ♀ (M.H.R.). VERNON, May 20, 1904,
 1 ♀ (E.P.V.): June 14, 1921, 2 ♀; May 20,
 1924, 1 ♀; May 1, 1925, 1 ♀ (M.H.R.): May
 10, 1927, 1 ♂ (D.G.G.): May 31, 1929, 5 ♀
 (E.R.B.). LYTTON, May 30, 1943, 15 ♀
 (E.R.B.). SALMON ARM, May 3, 1 ♀, 14,
 1 ♀, 1914 (W.R.B.). CHILCOTIN, May 24,
 1929, 1 ♀ (E.R.B.). VANCOUVER, May 22,
 1930, 6 ♀ (G.J.S.).

Andrena walleyi Cockerell

VERNON, May 12, 1920, 1 ♀ (M.H.R.). KAM-
 LOOPS, June 13, 1943, 1 ♀ (G.J.S.). CHIL-
 COTIN, June 13, 1929, 1 ♀ (E.R.B.).

Andrena washingtoni Cockerell, var.

KASLO, June 2, 1905, 1 ♀; May 17, 1906,
 1 ♀ (L.W.C.). CHILCOTIN, May 28, 1 ♀;
 June 13, 1 ♀, 14, 1 ♀, 1929 (E.R.B.). ALEXIS
 CREEK, June 30, 1943, 1 ♀ (E.R.B.).

Genus **DIANDRENA** Cockerell**Diandrena nothocalaidis** Cockerell

OLIVER, May 4, 1943, 1 ♀ (E.R.B.).

Genus **PARANDRENA** Robertson**Parandrena triangularis** (Viereck)

KAMLOOPS, April 18, 1929, 1 ♀ (E.R.B.).
 NICOLA, May 2, 1943, 1 ♂ (E.R.B.).

LIST OF COLLECTORS

Mentioned by initials in the text.

A.A.D.—Dennys, A. A.
 A.B.D.—Dickson, A. B.
 E.P.V.—Venables, E. P.
 E.R.B.—Buckell, E. R.
 D.G.G.—Gillespie, D. G.
 G.C.C.—Carl, G. C.
 G.J.S.—Spencer, G. J.
 H.B.L.—Leech, H. B.
 I.J.W.—Ward, I. J.
 K.G.—Graham, K.
 L.W.C.—Cockle, L. W.
 M.H.R.—Ruhmann, M. H.
 P.N.V.—Vroom, P. N.
 R.C.T.—Treherne, R. C.
 W.D.—Downes, W.
 W.R.B.—Buckell, W. R.



LIST OF LOCALITIES

Arranged alphabetically: the numbers corresponding to those on the accompanying map (V.I.: Vancouver Island).

- | | | | |
|------------------------|-------------------|-------------------------|-----------------|
| 1. Agassiz | 10. Invermere | 19. Naramata | 28. Summerland |
| 2. Alexis Creek | 11. Kamloops | 20. Newcastle Is., V.I. | 29. Vancouver |
| 3. Chilcotin | 12. Kaslo | 21. Nicola | 30. Vaseux Lake |
| 4. Cranbrook | 13. Kelowna | 22. Okanagan Falls | 31. Vernon |
| 5. Creston | 14. Ladysmith | 23. Oliver | 32. Victoria |
| 6. Departure Bay, V.I. | 15. Lytton | 24. Osoyoos | 33. Walhachin |
| 7. Douglas Lake | 16. Milner | 25. Penticton | 34. Yale |
| 8. Fairview | 17. Minnie Lake | 26. Saanich, V.I. | |
| 9. 100 Mile House | 18. Nanaimo, V.I. | 27. Salmon Arm | |

A FURTHER NOTE ON THE WHARF BORER, *NACERDA MELANURA* (L.) (Coleoptera: Oedemeridae).—In the Proceedings of our Society, Vol. 43, 1947, I recorded an unusual occurrence of *Nacerda melanura* (L.) in long-buried piling at Vancouver. At the time of investigating this infestation, in October, 1945, I saved a few pieces of riddled wood, apparently still infested, from the buried piles and placed them in a glass battery jar in my laboratory with coarse gravel all around them and wetted the whole mass with tap water so as to make it uniformly damp. The culture was examined in the autumn of 1946 and again in 1947 and, when fresh boring by a larva was noted, the wood was buried again in the damp gravel.

On March 10, 1948, the culture was examined again and one or two pieces of wood were broken open. In one of them occurred a fairly large tunnel containing an apparently healthy, full-grown larva and alongside of it, a female beetle which had died in the tunnel and was somewhat soft but intact enough to be successfully mounted on a card. The wood was re-buried and will be examined again at intervals to see if the larva has transformed. Even under the harsh conditions of being removed from piling surround by brackish water and then buried in sand moistened with fresh water, one larva at least survived and completed its development, two years and five months after being first disturbed.—G. J. Spencer, Department of Zoology, University of British Columbia, Vancouver, B.C.