

NOTES

RECORDS OF COLEOPTERA ASSOCIATED WITH STORED PRODUCTS IN AUSTRALIA

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Abstract

Nineteen species of Coleoptera of the families Carabidae, Staphylinidae, Melyridae, Nitidulidae, Rhizophagidae, Cryptophagidae, Biphylidae, Lathridiidae and Tenebrionidae are recorded from stored cereals in Australia.

The following records are a result of collections of stored product insects made in various localities in Australia and from export wheat inspected before loading.

Where possible, abundance is indicated using infestation levels defined by Freeman (1948): VF, Very few; F, Few; MN, Moderate numbers; FN, Fair numbers.

Unless otherwise stated collections were made by the author and specimens will be deposited in the Australian National Insect Collection. Authorities for identifications or confirmation of identifications are abbreviated as follows: EBB, E. B. Britton, Division of Entomology, Commonwealth Scientific and Industrial Research Organisation, Canberra; RM, R. Madge, Commonwealth Institute of Entomology, London; EAJD, E. A. J. Duffy, Commonwealth Institute of Entomology, London. Other identifications were made by the author. The abbreviation CDPI is Inspector for the Commonwealth Department of Primary Industry.

Family CARABIDAE

Dromius humeralis Macleay

SOUTH AUSTRALIA: VF from bulk wheat, Port Lincoln, 3.ii.1965, R. C. Ridgway (CDPI) (det. EBB 1965).

Notagonum submetallicum (White)

WESTERN AUSTRALIA: VF from pre-loading inspection of bulk wheat, Fremantle, 3.v.1966, W. H. Johnson (CDPI) (det. RM 1968).

Scopodes sigillatus Germar

WESTERN AUSTRALIA: VF from wheat silos, Geraldton, May 1965, G. M. Ferguson (CDPI) (det. EBB 1965); VF from wheat silos, Fremantle, 16.xii.1965, W. H. Johnson (CDPI).

Scopodes sp.

WESTERN AUSTRALIA: VF from grain residues, Geraldton, 11.x.1965, G. M. Ferguson (CDPI) (det. RM 1968).

Family STAPHYLINIDAE

Leptacinus batychnus (Gyllenhal)

NEW SOUTH WALES: F from paddy residues, paddy storage, Whitton, 1.xi.1966 (det. RM 1968).

Oligota sp.

NEW SOUTH WALES: F from paddy residues, paddy storage, Whitton, 1.xi.1966 (det. RM 1968). Large numbers were bred from samples of residue taken from this storage.

Family MELYRIDAE

Acanthocnemis nigricans (Hope)

WESTERN AUSTRALIA: VF wheat silos, Fremantle, 17.xii.1965, W. H. Johnson (CDPI) (det. RM 1968).

Family NITIDULIDAE

Carpophilus pilosellus Motschulsky

NEW SOUTH WALES: VF from paddy residues, paddy storage, Whitton, 1.xi. 1966 (det. RM 1968).

Family RHIZOPHAGIDAE

Monotoma spinicollis Aubé

NEW SOUTH WALES: VF from paddy residues, paddy storage. Whitton, 1.xi.1966 (det. RM 1968).

Monotoma sp.

NEW SOUTH WALES: F from paddy residues, paddy storage. Whitton, 1.xi.1966 (det. RM 1968).

Family CRYPTOPHAGIDAE

Cryptophagus laticollis Lucas

NEW SOUTH WALES: F found in paddy residues, paddy storage, Whitton, 1.xi.1966 (det. RM 1968).

Family BIPHYLLIDAE

Cryptophilus integer (Heer)

NEW SOUTH WALES: MN from paddy residues, paddy storage, Whitton, 1.xi.1966 (det. RM 1968).

Family LATHRIDIIDAE

Cartodere apicalis (Blackburn)

WESTERN AUSTRALIA: VF from bagged wheat, Fremantle, 22.iii.1966, F. Frewin (CDPI) (det. RM 1968).

Corticaria alutacea Blackburn

WESTERN AUSTRALIA: VF wheat silos, Esperance, 25.i.1966, (CDPI) (det. RM 1968).

Holoparamesus caularum (Aube)

NEW SOUTH WALES: VF from paddy residues, paddy storage, Whitton, 1.xi.1966 (det. RM 1968).

Holoparamesus depressus Curtis

NEW SOUTH WALES: F from paddy residues, paddy storage, Whitton, 1.xi.1966 (det. RM 1968). Large numbers were bred from residues taken from this storage and on a medium of crushed wheat and yeast (20:1) on a damp pad at 30°C, 70 per cent. relative humidity.

Lathridius minutus (L.)

NEW SOUTH WALES: FN from pocket of mouldy wheat in airtight storage, Cunningar, 25.vi.1964, S. W. Bailey (det. RM 1965): VICTORIA: VF from bulk wheat, Geelong, 1.ix.1965, E. S. Hallebone (CDPI) (det. RM 1968).

Melanophthalma lindensis (Blackburn)

VICTORIA: VF from bulk wheat, Geelong, 16.vi.1966, E. S. Hallebone (CDPI) (det. RM 1968): NEW SOUTH WALES: VF from paddy residues, paddy storage, Whitton. 1.xi.1966 (det. RM 1968).

Family TENEBRIONIDAE

Blaps sulcata Laporte

SOUTH AUSTRALIA: VF found in wheat chaff, wheat silos, Wallaroo, 15.iii.1965 (det. EAJD 1965).

REFERENCE

FREEMAN, J. A. (1948).—World foci of infestation and principal channels of dissemination to other points, with suggestions for detection and standards of inspection. In "Preservation of Grains in Storage"—papers presented at the International Meeting on Infestation in Foodstuffs London, 5-12 August 1947 (FAO Agricultural Studies No. 2).

**A NOTE ON CUTICULAR LOBES OF *TETRANYCHUS MARIANAE*
McGREGOR (ACARINA: TETRANYCHIDAE) FROM PAPUA**

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A description is given of the cuticular lobes of female *Tetranychus marianae* McGregor from Papua.

In listing records of species of the genus *Tetranychus* from Queensland, Davis (1968) described the lobes on the cuticular striae as an aid to the identification of females, but was not able to do this for *T. marianae* McGregor because of a shortage of suitable material.

The following description is made from female specimens of *T. marianae* from *Dolichos lablab* L., Popondetta, Papua, 12.iv.1966 (T. V. Bourke), made available through the courtesy of the late Mr. F. A. Gibson, formerly of the New South Wales Department of Agriculture.

Lobes on the striae between the second and third pairs of dorso-central hysterosomal setae uniformly small, about as long as wide, slightly separated; most lobes fairly acutely pointed, triangular, with a small proportion more rounded and semi-circular; tips of lobes dense, but no basal spot present: lobes elsewhere on the dorsal hysterosoma similar to those described, but on the propodosoma the greater proportion of lobes are rounded rather than triangular; ventral hysterosomal striae lobed as far forward as the first pair of ventral hysterosomal setae; ventral lobes much broader and more rounded and with less dense tips than those on the dorsal striae, wider than long, and ranging from semi-circular to nearly oblong; ventral propodosomal striae not lobed.

These morphological characters should assist in distinguishing females of *T. marianae* from those of species which are otherwise similar, and may occur on the same host—for example, *T. neocaledonicus* André.

REFERENCE

DAVIS, J. J. (1968).—Studies of Queensland Tetranychidae 3. Records of the Genus *Tetranychus*. *Qd J. agric. anim. Sci.* **25**: 57-67.

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**AMITERMES PALLIDICEPS, A NEW NAME FOR *A. PALLIDUS* GAY
(ISOPTERA: TERMITIDAE)**

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In my paper "A Contribution to the Systematics of the Genus *Amitermes* (Isoptera: Termitidae) in Australia", *Aust. J. Zool.* 1968, **16**, 405-457, I described (p. 435, 436) a new species of *Amitermes* from Western Australia under the name of *A. pallidus*. Dr. A. E. Emerson, in a private communication, has been kind enough to draw my attention to the fact that this name was used in 1932 by Professor S. F. Light, who described a new species from Arizona as *A. pallidus*. Accordingly, I propose that the name *Amitermes pallidus* Gay (nec Light) be replaced by *Amitermes pallidiceps* nom. nov.

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