

QUEENSLAND DEPARTMENT OF PRIMARY INDUSTRIES

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**RECORDS OF ENTOMOGENOUS FUNGI FROM
QUEENSLAND, 1962-1965**

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SUMMARY

Records of four Entomophthoraceae and eight Moniliaceae are presented.

Fungal epizootics have been observed as playing a significant role in the seasonal abundance of some pest species in Queensland. As a first step in precise definition of their importance as ecological factors, a survey of the species was commenced in 1962. Records made during the period 1962 to 1965 are reported here. Data are presented as host insect, food plant or habitat of the host, geographical district, locality collected, date and collector.

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ENTOMOPHTHORACEAE

Entomophthora aphidis

Hoffman 1858, In. Fres. Senckenb. Naturf. Gesell. Abhandl. 2:201.

Myzus persicae (Sulz.) (Aphididae):

ex *Brassica oleracea* L., SOUTH QUEENSLAND, Redland Bay, 19.v.64,
J. Barrett, (det. U.C.);

ex *Sonchus oleraceus* L., SOUTH QUEENSLAND, Gatton, 22.vi.64,
G. Behncken.

Entomophthora sphaerosperma

Fresenius 1856, Bot. Ztg. 14:883.

Laphygma exempta (Walk.) (Noctuidae):ex *Avena sativa* L., SOUTH QUEENSLAND, Samsonvale, 13.v.64,
J. Barrett, (det. C.M.I.).*Plusia argentifera* Guen. (Noctuidae):ex *Nicotiana tabacum* L., NORTH QUEENSLAND, Mareeba, 28.x.64,
I. C. Cunningham.

A lepidopterous larva:

ex *Themeda australis* (R. Br.) Stapf, SOUTH QUEENSLAND, Brisbane,
25.iv.65, R. Drew.**Entomophthora megasperma**

(Cohn), 1875, Beitrage zur Biologie der Pflanze, Band 1, Heft 1, 58.

Plusia argentifera Guen. (Noctuidae):ex *Nicotiana tabacum* L., NORTH QUEENSLAND, Mareeba, 28.x.64,
I. C. Cunningham.**Entomophthora muscae**

Cohn, 1855, Nova. Acta. Leopoldina, 24:301.

Orthellia lauta Wied. (Muscidae):by field collection, SOUTH QUEENSLAND, Brisbane, 30.vi.64, W. Haseler,
(det. C.M.I.).*Hylemya deceptiva* Mall. (Muscidae):by field collection, SOUTH QUEENSLAND, Brisbane, 30.vi.64,
W. Haseler, (det. C.M.I.).**MONILIACEAE****Beauveria bassiana**

(Balsamo) Vuillemin 1912, Soc. Bot. de France Bul. 59:34-40.

Mecas saturnina Le Conte (Cerambycidae):ex *Xanthium pungens* Wallr., SOUTH QUEENSLAND, Brisbane, 5.xii.63,
W. Haseler, (det. C.M.I.).A species of Cerambycidae in collection of Department of Primary Industries:
inside hollow living tree, NORTH QUEENSLAND, Tolga Scrub, 10.ix.64,
R. Elder.*Sitophilus zea mays* Motschulsky (Curculionidae):ex *Zea mays* L. (cob), NORTH QUEENSLAND, Walkamin, 18.xi.64,
I. C. Cunningham, (det. C.M.I.).*Tribolium castaneum* Herbst. (Tenebrionidae):ex cotton seed refuse, SOUTH QUEENSLAND, Brisbane, 9.xii.64,
B. R. Champ, (det. C.M.I.).

Cephalosporium lecanii

Zinn. 1899, Indische Cult. (Teysmannia) 9:240-243.

Saissetia nigra (Nietn.) and *Coccus hesperidus* L. (Coccidae):

ex *Annona squamosa* L., SOUTH QUEENSLAND, Sunnybank, 7.vii.64,
J. Barrett.

Nomuraea prasina (= Spicaria rileyi)

Maublanc 1903, Bull. de la Soc. Mycol. de France, T. XIX:295-96.

Heliothis assulta Guen. (Noctuidae):

ex *Physalis peruviana* L., SOUTH QUEENSLAND, Brisbane, 25.vi.64,
H. J. Hasler, 25.vi.64; J. H. D. Martin, (det. C.M.I.); 29.vi.64, R. C.
H. Shepherd; 2.vii.64, H. J. Hasler; 2.vii.64, K. Elms; 22.vii.64, R. C.
Shepherd; 16.vii.64, H. J. Hasler.

Heliothis armigera Hbn. (Noctuidae):

ex *Gossypium barbadense* L., NORTH QUEENSLAND, Mareeba, 22.v.64,
I. C. Cunningham;
ex *Zea mays* L., SOUTH QUEENSLAND, Brisbane, 22.vii.64, H. J.
Hasler;
ex *Phaseolus vulgaris* L., SOUTH QUEENSLAND, Brisbane, 22.vii.64,
H. J. Hasler.

Laphygma exempta Walk. (Noctuidae):

ex *Avena sativa* L., SOUTH QUEENSLAND, Samsonvale, 13.v.64,
29.v.64, J. Barrett.

Prodenia litura (Fabr.) (Noctuidae):

ex *Nicotiana glauca* Graham, NORTH QUEENSLAND, Mareeba, 22.v.64,
I. C. Cunningham;
ex *Nicotiana tabacum* L., NORTH QUEENSLAND, Mareeba, 2.vi.64,
I. C. Cunningham.

Pseudomicrocera henningsii

(Koorders) Petch, 1921, Brit. Mycol. Soc. Trans., 7:100-106.

Aonidiella aurantii Mask. (Diaspididae):

ex *Citrus limon* (L.) Burm. f. x *C. sinensis* Osbeck, SOUTH QUEENSLAND,
Slack's Creek, vide infra *Fusarium lavarum*. 24.iii.64, R. Coey.

Fusarium lavarum

Fuckel 1869, Mycol. Symb., 369.

Aonidiella aurantii Mask. (Diaspididae):

ex *Citrus limon* (L.) Burm. f. x *C. sinensis* Osbeck, SOUTH QUEENSLAND,
Redland Bay, 28.v.64, R. Greber, (det. C.M.I.), numerous specimens
associated with *Pseudomicrocera henningsii*.

Paecilomyces flavescens

(Dicks. ex Fr.) Brown & Smith, Trans. Brit. Mycol. Soc. 40(1), 17-89.

A lepidopterous larva:

near rotting leaf mould, SOUTH QUEENSLAND, Bunya Mts., 21.ii.65,
G. Montieth, (det. C.M.I.).

Aspergillus flavus-oryzae

Sensu Thom & Church "The Aspergilli" 198-207.

Scolypopa australis Walk. (Ricaniidae):

ex *Lantana camara* L., SOUTH QUEENSLAND, Mt. Tamborine, 10.xii.62,
W. Haseler, (det. U.C.).

Aspergillus flavus

Link ex Fr.

Laphygma exempta (Walk.) (Noctuidae):

ex *Avena sativa* L., SOUTH QUEENSLAND, Samford, 13.v.64, J. Barrett,
(det. C.M.I.).

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