

Bibliography of Aleyrodidae

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Introductory

White-flies are minute insects distributed all over the world but more abundantly in the tropical regions. Few groups of insects have been more neglected by the Entomologists and collectors than *Aleyrodidae*. IMMS (1951) remarks, "the whiteflies are a much neglected group and probably the majority of the world's species are yet unknown." May be, when thoroughly explored, this family perhaps will prove to be as rich in species as *Coccidae* or *Aphididae*.

Of all the species recorded so far, the great majority of them are pests of one or the other crops and of economic importance too. These have a very wide range of host plants including vegetables, fruit trees and flowering or ornamental plants. Besides systematics and biological studies, the nature and extent of damage caused by them has also received some attention of a few workers but nothing conclusive has been given as yet. In general, the available information on this family is very much scattered and therefore, it was extremely desirable that it should be collected and compiled so as to become handy for the future workers interested in this group of insects.

The Indian Council of Agricultural Research, New Delhi, appreciated this long standing necessity and established the 'School of Research' under the senior author for reviewing the available literature and publishing it in a presentable form. The authors are greatly indebted to the Council for the sanction of funds and appointing a 'Research Fellow' for this purpose.

Historical

CESTONE in the 17th century is said to have noticed the first known Aleyrodid but his account is inaccessible. RÉAUMUR (1736) was next to note the presence of this insect and he described it as a moth. LINNAEUS (1758) named the species as *Phaleana (Tinea) prolella* thus likewise considering it to be a moth. ROEMER (1789) gave a brief description of the species but LATREILLE (1796) was the first to diagnose its hemipterous characters and confer upon it the generic title *Aleyrodes*. BURMEISTER (1835) re-described the insect and unnecessarily changed the name to *Aleurodes*. WESTWOOD (1840) erected the family *Aleyrodidae* and placed only one genus *Aleyrodes* under it. RURICOLA (1846), WALKER (1852) and KOCH (1857) each contributed a little towards our knowledge of *Aleyrodidae*. FRAUENFELD (1867) reviewed all the material available till then and re-described many of the species. SIGNORET (1868) wrote for the first time a complete monograph of *Aleyrodidae*, treating as many as 23 species. WESTHOFF (1886) discussed the systematic position of *Aleyrodes* and later on DOUGLAS (1892) erected

the genus *Aleurodicus*. MASKELL (1895) published, "Contribution towards a monograph of *Aleurodidae*", in which he listed all the then known species of white-flies in the world, describing 22 new species and bringing the total to 66 species. This was followed by a number of publications dealing with *Aleyrodidae* most of them systematic in character, only a few dealing with the biology and habits of certain species of major economic importance. The outstanding contributions are by BERGER (1907—21), BRITTON (1902 to 1930), BONDAR (1922—29), CLAUSEN (1912—40), COCKERELL (1893—1919) CORBETT (1926—40), DOUGLAS (1878—96), DOZIER (1924—37), HEMPEL (1899—1922), HUSAIN (1924—45), KUWANA (1910—34), MORRIL (1903—8), PRUTHI (1925—42), QUAINANCE (1899—1917), RUSSELL (1943—48), SIGNORET (1868—1883), SILVESTRI (1910—37), SINGH (1931—48), TAKAHASHI (1931—40), TREHAN (1938—57), WATSON (1913—33), WILSON (1926—39) and YOTHERS (1913—29).

Life and Seasonal History

RÉAUMUR (1736), BRITTON (1902) and BACK (1910) were the first to study the egg-laying whereas ZEHNTER (1897), MORRILL & BACK (1911) and WATSON (1913) counted the number of eggs laid by a single female. WOODWORTH (1902), MORRILL (1903), CORY (1903) and ROONWAL (1935) were first to study the metamorphosis, parthenogenesis, embryology and the post-embryonic development respectively whereas MORRILL & BACK (1911) have given a detailed account of the act of emergence as also the effect of temperature and humidity on emergence. WOGLUM (1913) opined that humidity is the governing factor whereas HUSAIN & TREHAN (1933) believe that humidity near the leaf surface being always very high, temperature is the controlling factor. HUSAIN, TREHAN & VERMA (1936) studied the seasonal activities and TREHAN (1941) discussed the effect of coloured screens on the oviposition and development of some British Aleyrodids. Among the others who have done some valuable work on this aspect of the white-flies mention may be made of BUTLER (1938), HUSAIN, TREHAN & VERMA (1936) and HUSAIN, PURI & TREHAN (1936) who studied the migration of these insects on different food plants and attributed some reasons to it; and HUSAIN & KHAN (1945).

Morphology and Systematics

The early descriptions were so inadequate that proper identifications were impossible. QUAINANCE & BAKER (1913—14) studied the morphological characters leading to the systematics of these insects and thereafter various authors as BAKER & MOLES (1924), ELTRINGHAM (1931), LAMBA (1931—40), ROONWAL (1935), TREHAN (1939—40) and RAKSHPAL (1940) worked on various organs for classificatory purposes.

Nature of Damage

This has not been worked out properly though the white-flies are considered to reduce the fruit-formation by desapping the plants of their vitality as well as due to the "sooty mould" which develops on the "honey dew". BUTLER (1938) alleged the injury to be due to the removal of starch and sugar, whereas PEAIRS (1947) considered the loss of the sap as the cause of the injury. MATHUR (1941) attributed the injury to the nitrogen starvation and HUSAIN & TREHAN (1942) also arrived at similar conclusions indicating higher total nitrogen in infested plants with corresponding higher transmission of nitrogen, ash and fat etc. to flowers and bolls. According to them the loss in fruiting is the result of some dislocation in the carbohydrate-protein balance due to physiological and nutritive upsetting. Associating of white-flies with the virus diseases in plants is the common allegation though some conflicting results are obtained by various workers as KIRKPATRICK (1930), COWLAND (1933), MATHUR (1933), BEDFORD (1936), UPPAL & KAPOOR (1940), PRUTHI & SAMUEL (1942) going in favour of white-flies, as the vectors and FLETCHER (1930), CLAVELAND (1931), KING (1932), ZELLER (1933), FRAPPA (1938), HUSAIN & TREHAN (1942) and KAPOOR & VARMA (1948) have the opposite view.

Control

Various methods of control are applicable as cutting of infested parts, insecticidal and biological. However, the latter two methods are far more convincing. MOZNETTE (1921), GERMAN & JEWETT (1922), SASSCER & WEIGEL (1924), SULLIVAN (1924), COPLEY (1925), FOX-WILSON (1926), CHARTIER (1938), MCCAULEY (1939) and SPEYER, READ & ORCHARD (1940) suggested the efficacy of various fumigants, whereas OKANE (1929), CORY & EATON (1929), HUSAIN & TREHAN (1939) and WATERSTON (1944) suggested spraying as the control measures. Biologically the control has been recommended by CARDIN (1917), BERGER (1919), FLOYD (1924), SMITH (1929) and BRUNER (1931) by entomogenous fungi and SPEYER (1927, 29), STANLAND & BEAUMONT (1935), VONTO (1937) and ISHII (1940) by parasites etc.

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Zum Verhalten von *Phorbia phrenione* (Séguy) sowie Mitteilungen über Zucht, Neufunde und Feinde der Fliege

(*Diptera: Anthomyiidae*)

JAN & ERIKA KOHLMAYER

Berlin-Grünwald

(Mit 1 Tafel)

In den wenigen Veröffentlichungen über *Phorbia* (*Pegohylemyia*) *phrenione* (SÉGUY) ist die Lebensweise der Larven, die sich in dem auf Gräsern parasitierenden Kolbenpilz (*Epichloë typhina* [PERS.] TUL.) entwickeln, mehr oder weniger ausführlich beschrieben worden (GIRAUD, 1872; LUCAS, 1909; TRÄGÅRDH, 1913; KOHLMAYER, 1956); über die Imagines dagegen ist fast gar nichts bekannt. Doch auch diese regen zur Untersuchung zahlreicher, interessanter Fragen an, die mit den Beziehungen der Fliege zu ihrem Wirt verknüpft sind.