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A Review of the Planthoppers (Hemiptera: Fulgoroidea) of the United States.

Charles R. Bartlett, Lois B. O'Brien and
Stephen W. Wilson

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ABSTRACT: The systematics of planthoppers north of Mexico is reviewed with particular emphasis on the contiguous United States. This overview includes a synopsis of each family, a checklist of all species reported north of Mexico, synonymies since Metcalf's (1936–1958) catalog, summaries of distribution, keys to genera with photographs representing nearly all listed genera, and a bibliography of papers published since the Metcalf catalog. We report 12 families with 167 genera and 914 species occurring in the contiguous United States, with an additional 5 genera and 26 species occurring in Canada and Alaska (all but one of these are Delphacidae). There are 11 species known to be adventive and 2 others whose native status has been questioned. Generally, planthoppers are most species rich in the south, particularly the southwest, but species richness per unit area is higher for the northeast than the southeast or southwest. Species richness is lowest in the northwest U.S.

INTRODUCTION: Planthoppers (Hemiptera: Fulgoroidea) comprise a diverse group of phytophagous or fungivorous insects, exceeding 12,500 described species worldwide (Bourgoin 2012). At least 160 species in 16 families are recorded as pests (Wilson and O'Brien 1987), including some of major economic importance, such as the brown planthopper, *Nilaparvata lugens* (Stål, 1854), on rice. Planthoppers are vectors of viral and bacterial (including phytoplasma) diseases of plants. Here we provide an overview of planthopper systematics north of Mexico. Our intent has been to provide an updated integrative resource summarizing our current understanding of North American planthoppers to assist current and future researchers.

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