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**A List of the Host Plants of the Illinois
Acanaloniidae and Flatidae (Homoptera:Fulgoroidea)¹**

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ABSTRACT

A referenced list of the host plants of the acanaloniids *Acanalonia bivittata* (Say) and *A. conica* (Say), and the flatids *Anormenis septentrionalis* (Spinola), *Metcalfa pruinosa* (Say) and *Ormenoides venusta* (Melichar), is presented.

The superfamily Fulgoroidea contains ca. 860 species in 11 families in America north of Mexico (unpubl. data); all species studied are phytophagous (61). Of these, 9 families and 150 species occur in Illinois (61). Two of the 9 families, the Acanaloniidae and Flatidae, contain species that are common in Illinois (61). The family Acanaloniidae is represented by *Acanalonia bivittata* (Say) and *A. conica* (Say), the family Flatidae by *Anormenis septentrionalis* (Spinola), *Cyarda melichari* Van Duzee, *Metcalfa pruinosa* (Say) and *Ormenoides venusta* (Melichar). All but *C. melichari* are widely distributed in the state; *C. melichari* has been collected only in Monroe and Union Counties, and is represented by 5 specimens, 1 deposited in the Illinois Natural History Survey collection, 4 in the Entomology collection, Zoology Research Museum, Southern Illinois University at Carbondale.

Little life history information has been published for the Illinois acanaloniids and flatids, the exception being that of host plants. However, host plant records are scattered throughout numerous publications. Presented here is a summary of these records, including plant species that do not occur in Illinois (Table 1); not included are those of *C. melichari*, which has been recorded from beach grasses (31), shrubs, weeds, "wild tobacco" (*Nicotiana* sp.) (35) and lantana (*Lantana camara* Linnaeus) (26). *A. bivittata* has been found on 19 species in 12 families, *A. conica* on 22 species in 18 families, *A. septentrionalis* on 41 species in 26 families, *M. pruinosa* on 85 species in 45 families, and *O. venusta* on 5 species in 4 families (Table 1).

Table 1. List of host plants of the Illinois Acanaloniidae and Flatidae^{a,b}

Family PINACEAE

Juniperus chinensis Linnaeus, Mp, 5 (N).

Family LILIACEAE

Convallaria majalis Linnaeus, As, 47.

Lilium longiflorum Thunberg, Mp, 5.

Lilium tigrinum Ker, Ac, 7.

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Family GRAMINEAE

Saccharum officinarum Linnaeus, Ab, 54C.

Sorghum halapense (Linnaeus), Mp, 13, 22.

Zea mays Linnaeus, Ab, 23; Ac, 7, 9, 13, 33, 36, 39; As, 23; Mp, 13, 17, 23, 33, 44.

Family ARACEAE

Scindapsus aureus Engler, Mp, 5 (N).

Family ZINGIBERACEAE

Alpinia speciosa Dietrich, Mp, 5 (N).

Family JUGLANDACEAE

Carya glabra (Miller), As, 62 (A).

Carya illinoensis (Wangenheim), As, 9; Mp, 9, 25; Ov, 9.

Carya sp., Mp, 9, 23, 25

Juglans nigra Linnaeus, Ab, 34 (N, A); Ac, 34 (N, A); As, 34 (N, A), 62 (N, A); Mp, 34 (N, A), 38; Ov, 34 (A).

Family SALICACEAE

Populus deltoides Marshall, Ab, 23.

Populus sp., Mp, 23.

Salix sp., As, 23; Mp, 23.

Family BETULACEAE

Alnus glutinosa (Linnaeus), As, 9, 36, 49, 52; Mp, 9, 49.

Betula sp., Mp, 9, 25, 43, 45, 49.

Carpinus caroliniana Walter, Mp, 23.

Corylus sp., Mp, 9, 49.

Ostrya virginiana (Miller), As, 62 (A).

Family FAGACEAE

Fagus grandifolia Ehrhart, As, 62.

Quercus illicifolia Wangenheim, Mp, 10.

Quercus sp., As, 9, 23, 36, 48 (N), 49; Mp, 9, 23, 25, 49, 63.

Family ULMACEAE

Celtis laevigata Willdenow, Mp, 5.

Celtis sp., Mp, 37, 49.

Ulmus americana Linnaeus, Ab, 19; Ac, 19; Mp, 19, 24; Ov, 19.

Ulmus rubra Muhlenberg, As, 62 (N, A).

Ulmus sp., As, 23; Mp, 9, 25, 37 (N), 38, 45, 49.

Family MORACEAE

Ficus carica Linnaeus, Mp, 5 (N).

Ficus lyrata Warburg, Mp, 5 (N).

Humulus sp., Ac, 3, 33.

Maclura pomifera (Rafinesque), Ac, 3, 7, 9, 32, 36, 49; Mp, 3, 55.

Morus sp., Mp, 23.

Family POLYGONACEAE

Antigonon leptopus Hooker and Arnott, Mp, 5 (N).

Coccocloa uvifera Linnaeus, Mp, 25.

Rheum raponticum Linnaeus, Mp, 9, 11, 49.

Family PHYTOLACCACEAE

Phytolacca americana Linnaeus, As, 8.

Family NYCTAGINACEAE

Bougainvillaea spectabilis Willdenow, Mp, 5 (N).

Family CHENOPodiACEAE

Beta vulgaris Linnaeus, Ac, 7, 9, 36, 49; Mp, 9, 14, 49.

Family MAGNOLIACEAE

Liriodendron tulipifera Linnaeus, As, 47.

Magnolia sp., Mp, 25.

Family ANNONACEAE

Asimina triloba (Linnaeus), Mp, 9, 49.

Family LAURACEAE

Persea americana Miller, Mp, 5 (N).

Sassafras albidum (Nuttall), Mp, 3, 9, 49.

Family RANUNCULACEAE

Clematis virginiana Linnaeus, Mp, 3.

Family THEACEAE

Stewartia sp., Mp, 25.

Family PLATANACEAE

Platanus occidentalis Linnaeus, As, 23, 62.

Family HAMAMELIDACEAE

Liquidambar styraciflua Linnaeus, As, 9, 63 (A); Mp, 9.

Family SAXIFRAGACEAE

Deutzia sp., As, 47.

Family ROSACEAE

Crataegus sp., As, 9, 25, 36, 48 (N).

Prunus myrobalana Loiseleur, Ac, 28, 29; Mp, 28, 29.

Prunus persica (Linnaeus), Ac, 28, 29; As, 47; Mp, 25, 28, 29, 46.

Prunus virginiana Linnaeus, Mp, 50.

Pyracantha crenulata Roemer, Mp, 5 (N).

Pyrus malus Linnaeus, Ab, 23; As, 47; Mp, 3, 46; Ov, 36.

Ribes grossularia Linnaeus, Mp, 11.

Ribes sp., As, 47; Mp, 9, 49, 56.

Rosa sp., As, 47.

Rubus flagellaris Willdenow, Ab, 23.

Rubus sp., Ab, 23, 52; Mp, 14, 23.

Family LEGUMINOSAE

Bauhinia variegata Linnaeus, Mp, 5 (N).

Cercis canadensis Linnaeus, As, 62 (A).

Gleditsia triacanthos Linnaeus, As, 23.

Glycine max (Linnaeus), Ab, 2.

Medicago sativa Linnaeus, Mp, 17, 44.

Melilotus officinalis Linnaeus, As, 62 (N).

Prosopis sp., Mp, 58.

Robinia pseudoacacia Linnaeus, Ac, 16; Mp, 16.

Trifolium pratense Linnaeus, Mp, 37 (N), 45, 49.

Trifolium sp., Ab, 20, 23.

Vigna sinensis (Linnaeus), Ac, 7, 9.

Family EUPHORBIACEAE

Acalypha virginica Linnaeus, Mp, 3.

Family RUTACEAE

Citrus sp., Mp, 5 (N, A), 25, 59 (N, A).

Zanthoxylum americanum Miller, As, 9, 36, 48 (N), 49; Mp, 9, 49.

Family ACERACEAE

Acer negundo Linnaeus, Mp, 14, 49.

Acer saccharinum Linnaeus, Mp, 62 (A).

Acer sp., Ab, 23; As, 23; Mp, 37 (N), 38, 45, 49.

Family BALSAMINACEAE

Impatiens balsamina Linnaeus, Ab, 40, 49.

Family AQUIFOLIACEAE

Ilex sp., Mp, 25.

Family CELASTRACEAE

Celastrus scandens Linnaeus, As, 9, 36, 48 (N), 49.

Family BUXACEAE

Buxus sp., As, 25, 47.

Family VITACEAE

Ampelopsis sp., As, 47.

Vitis sp., Ac, 3, 7, 9; As, 4, 9, 23, 36, 47, 48 (N), 49, 63; Mp, 3, 9, 36, 43, 49, 56, 63; Ov, 9.

Family TILIACEAE

Tilia sp., Ac, 18, 49; Mp, 9, 25, 49, 53.

Family MALVACEAE

Gossypium hirsutum Linnaeus, Ac, 7, 9, 12, 15; Mp, 1.

Hibiscus cannabinus Linnaeus, Mp, 5 (N).

Family VIOLACEAE

Viola sp., As, 47.

Family PASSIFLORACEAE

Carica papaya Linnaeus, Mp, 5 (N).

Family TAMARICACEAE

Tamarix articulata Vahl, Mp, 5 (N).

Family LYTHRACEAE

Punica granatum Linnaeus, Mp, 5 (N).

Family MYRTACEAE

Psidium guajava Linnaeus, Mp, 5 (N).

Family ONAGRACEAE

Oenothera biennis Linnaeus, Mp, 6.

Family CORNACEAE

Cornus drummondii Meyer, As, 48 (N).

Cornus florida Linnaeus, As, 62 (A).

Cornus sp., Ac, 23; As, 9, 36, 48 (N), 49; Mp, 23.

Family ARALIACEAE

Panax quinquefolium Linnaeus, Ac, 21; Mp, 21.

Family ERICACEAE

Kalmia sp., Mp, 25.

Rhododendron sp., Mp, 25.

Vaccinium corymbosum Linnaeus, Ab, 39, 51.

Vaccinium macrocarpon Aiton, Ab, 36, 39, 40 (N, A), 41, 42, 49.

Vaccinium sp., As, 51.

Family OLEACEAE

Jasminum grandiflorum Linnaeus, Mp, 5 (N).

Ligustrum amurense Carriere, Mp, 60 (N).

Ligustrum vulgare Linnaeus, Mp, 9, 11, 25, 38.

Ligustrum sp., Mp, 49, 56.

Fraxinus berlandieriana A. DeCandolle, Mp, 5.

Fraxinus sp., Ab, 23; As, 23; Mp, 9, 25, 49, 53.

Syringa vulgaris Linnaeus, Ac, 3, 7, 9, 32, 36, 49.

Family APOCYNACEAE

Allamanda cathartica Schrader, Mp, 5 (N).

Family ASCLEPIADACEAE

Asclepias sp., Ac, 7, 9, 49.

Family CONVOLVULACEAE

Ipomoea sp. , Ab, 23.

Family BORAGINACEAE

Ehretia anaqua (Johnson), Mp, 5.

Family LABIATAE

Nepeta cataria Linnaeus, Ac, 7, 9, 49.

Salvia sp., Mp, 57 (N, A).

Family SOLANACEAE

Solanum rostratum Dunal, Ac, 7.

Solanum tuberosum Linnaeus, Mp, 3.

Solanum sp., Mp, 5 (N).

Family BIGNONIACEAE

Aristolochia capreolata (Linnaeus), As, 9.

Campsis radicans (Linnaeus), Mp, 3.

Catalpa sp., Mp, 10.

Family CAPRIFOLIACEAE

Viburnum sp., Mp, 25.

Weigelia florida (Siebold and Zuccarini), As, 47.

Family COMPOSITAE

Ambrosia sp., Ab, 23; Ac, 7, 9, 36, 49.

Dahlia sp., Mp, 3, 30, 32, 57.

Erigeron canadensis Linnaeus, Mp, 37 (N), 45.

Galinsoga sp., As, 47.

Rudbeckia hirta Linnaeus, Ab, 23.

Solidago sp., Ab, 23, 36, 40, 48 (N), 49; Ac, 23.

Verbesina sp., As, 62.

^{M.}
^aAb = *A. bivittata*, Ac = *A. conica*, As = *A. septentrionalis*, Mp = *A. pruinosa*, Ov = *O. venusta*.
^bN = nymph, A = adult. Most authors did not state whether the planthoppers observed and/or collected were nymphs or adults. However, we assume that most records are of adults since nymphs cannot be easily identified.

Collected in sugarcane fields. LITERATURE CITED

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