Host Records of Philaenus spumarius (Linn.) at Kilauea, Hawaii National Park (Homoptera: Cercopidae)

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(Presented at the meeting of August 13, 1945)

The family Cercopidae is represented in Hawaii by the single immigrant species Philaenus spumarius (Linn.). This spittle-insect was first seen in the islands by Warren Goolsby, who collected it from daikon (Raphanus sativus Linn. longipinnatus Bailey) and satsuma orange leaves near the Volcano House, Kilauea, Hawaii, on January 17, 1944 (Proc. Haw. Ent. Soc., 12:219, 1945; as P. leucophthalmus [Linn.]). Herbert Osborn (Meadow and Pasture Insects: 101, 1939) states that P. spumarius "is a very widely distributed species both in Europe and America, and in the United States and Canada occupies a large area from the Atlantic coast to the plains regions." It probably reached Hawaii from the mainland of the United States on imported plant material in recent years. The present authors have observed it abundantly in Kipuka Puaulu (Bird Park), the administrative and residential area, Kipuka Ki, at the Hilo entrance to the park, and at the Kilauea Ranger Station (29 miles).

Nymphs immersed in froth have been commonly found on leaves and stems of a large number of different plants, though no injury to the infested plants has been observed. The adults are often found on vegetation near the infested foliage, or on the same plants occupied by the nymphs. A record has been kept of all plants on which the authors have observed froth masses. This is given below.

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Ноэт	LOCATION	DATE
Saccolepis contracta	Nursery	Jan. 30, 1945
Centaurium umbellatum	Nurserv	Jan. 30
Ilex anomala§	Crater Rim Road	Jan. 30
Hibiscus tiliæceus§	Nursery	Jan. 30
Hypochoeris radicata	Hilo entrance	April 3
Rubus penetrans*†	Hilo entrance	April 3
Digitaria pruriens	Hilo entrance	April 3
Trifolium procumbens	Hilo entrance	April 3
Plantago lanceolata	Hilo entrance	April 3
Geranium carolinianum var. australe*†		April 3
Verbena litoralis†	Hilo entrance	April 3
Mentha sp.†	Kipuka Puaulu	April 3

^{*} Previously recorded by N. L. H. Krauss (Proc. Haw. Ent. Soc., 12:220, 1945).

† Preferred host.

§ Indigenous host.

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Host	Location	DATE
Brassica oleracea var. botrytis	Quarters 22	April 17
Lactuca sativa	Quarters 22	April 17
Medicago hispida	Quarters 31	May 11
Mesembryanthemum sp.*	Õuarters 31	May 11
Senecio mikanioides	Quarters 31	May 11
Tibouchina semidecandra	Quarters 31	May 11
Gnaphalium purpureum	Quarters 31	May 11
Dianthus chinensis	Quarters 31	May 11
Coprosma rhynchocarpa*§	Kipuka Puaulu	May 15
Veronica plebeia	Kipuka Puaulu	May 15
Modiola caroliniana	Kipuka Puaulu	May 15
Commelina diffusa	Kilauea ranger sta.	May 17
Chrysanthemum maximum	Kilauea ranger sta.	May 17
Vinca sp.	Kilauea ranger sta.	
Panicum purpurascens	Kilauea ranger sta.	May 17
Sonchus oleraceus	Kilauea ranger sta.	May 17
Tritonia crocosmaeflora	Kilauea ranger sta.	May 17
Erigeron albidus	Headquarters bldg.	May 18
Oenothera striata	Observatory	May 18
Cordyline terminalis	Quarters 20	May 19
Myosotis azorica	Quarters 7	May 20
Cyperus brevifolius	Quarters 7	May 20
Cynodon dactylon	Quarters 7	May 20
Hebe salicifolia	Quarters 7	May 20
Anagallis arvensis	Kipuka Puaulu	May 21
Dactylis glomerata	Kipuka Ki	May 26
Rheum rhaponticum	Quarters 21	May 27
Holcus lanatus	Kipuka Puaulu	May 31
Lythrum maritimum	Residential area	June 11 Tune 11
Fuchsia magellanica*	29 Miles	Tune 13
Wikstroemia phillyreaefolia§	Nursery	June 13
Raillardia scabra§	Nursery	June 13
Coprosma ernodeoides var. typica§	Nursery Adm. area	June 29
Artemisia vulgaris	Ouarters 22	July 2
Dahlia sp.	Quarters 2	July 4
Hypericum moserianum Pastinaca sativa	ČCC camp	July 11
Coix lacryma-jobi	CCC camp	July 11
Solidago altissima	Residential area	Sept. 1
Physalis peruviana*	CCC camp	Oct. 9
Bidens pilosa var. minor	Quarters 22	Oct. 13
Rumex acetosella	Quarters 22	Oct. 13
Daucus carota var. sativa	Quarters 21	Oct. 23
Ipomoea batatas	Ouarters 22	Nov. 1
Pluchea odorata	ČCC camp	Dec. 31
Metrosideros collina var. polymorpha§	Nursery	Jan. 10, 1946
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^{*} Previously recorded by N. L. H. Krauss (Proc. Haw. Ent. Soc., 12:220, 1945). § Indigenous host.