

Vanessa tameamea Esch. and Related Introduced Species:
Citations in the Proceedings of the Hawaiian Entomological
Society (1906-2012).



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Introduction

Vanessa tameamea Esch., one of only two butterflies endemic to the Hawaiian Islands was cited within the Proceedings of the Hawaiian Entomological Society 43 times between its first publication in 1906 and 2012. Twenty eight or 65% of those citations were by O. H. Swezey. F. X. Williams (1928) is credited in writing the only paper specific to *V. tameamea* in the Proceedings.

Three other immigrant *Vanessa* species (*V. atalanta* L., *V. cardui* L., *V. virginiensis* (Drury)) are also present in Hawaii and cited within the Proceedings 5, 26 and 9 times respectively between 1906 and 2012. Their citations are listed below those for *V. tameamea*. There is no reference within the Proceedings for the timing of the introduction of these species. There are a few other *Vanessa* citations within the Proceedings that have no reference to Hawaii and were therefore not included in this work.

Parasitism has been suggested as a reason for the decline in *V. tameamea* populations. The following table enumerates those parasitoids cited as associated with *V. tameamea* within the Proceedings.

<i>Vanessa tameamea</i> parasitoids listed in the Proceedings.			
Order	Family	Genus & Species	Reference
Diptera	Tachinidae	<i>Chaetogaedia monticola</i> (Bigot)	Swezey, 1927
Hymenoptera	Chalcididae	<i>Braekymeria obscurata</i> (Walker) (= <i>Chalcis obscurata</i> Walk.)	Funasaki, 1988 Swezey, 1922 Williams, 1928
Hymenoptera	Ichneumonidae	<i>Echthromorpha agrestoria</i> subsp. <i>Fuscator</i> (Fab.) (= <i>Echthromorpha maculipennis</i>)	Perkins, 1906
Hymenoptera	Ichneumonidae	<i>Echthromorpha fuscator</i> Fab) (= <i>Echthromorpha maculipennis</i> Holmgren)	Swezey, 1912, 1915, 1929 Timberlake, 1928
Hymenoptera	Ichneumonidae	<i>Enicospilus dispilus</i> Perkins	Perkins, 1906
Hymenoptera	Ichneumonidae	<i>Enicospilus kaalae</i> Ashmead	Perkins, 1906
Hymenoptera	Ichneumonidae	<i>Enicospilus lineatus</i> (Cameron) (= <i>Enicospilus dimidiatus</i>) (= <i>Enicospilus maucol</i>)	Perkins, 1906
Hymenoptera	Ichneumonidae	<i>Enicospilus molokaiensis</i> Ashmead	Perkins, 1906
Hymenoptera	Ichneumonidae	<i>Pimpla punicipes</i> Cresson (= <i>Ephialtes hawaiiensis</i> (Cameron) (= <i>Pimpla hawaiiensis</i> Cameron)	Perkins, 1906 Timberlake, 1920
Hymenoptera	Pteromalidae	<i>Pteromalus puparum</i> (Linnaeus)	Swezey, 1931
Hymenoptera	Trichogrammatidae	<i>Trichogramma minutum</i> Riley	Swezey, 1929, 1934
Hymenoptera	Trichogrammatidae	<i>Trichogramma perkinsi</i> Girault (= <i>Pentarthron flavum</i> Perk.)	Swezey, 1913, 1915

List of Citations (in alphabetical order by author)

Synonyms are indicated for each species. Names used within the Proceedings are followed by an asterisk (*).

Vanessa tameamea Esch.

Synonyms: *Pyrameis cordelia*

*Pyrameis tameamea**

*Pyrameis tameamea** (not listed by Bishop Museum)

Pyrameis tammeamea

*Vanessa tammeamea**

Bryan, E. H. Jr.. 1972. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 21(2) 145.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/10999/21_2proc.pdf?sequence=1

“E. H. Bryan, Jr. submitted a review of a recent publication, Butterflies of the genus *Vanessa* and of the resurrected genera *Bassaris* and *Cynthia* (Lepidoptera: Nymphalidae), by William D. Field, published as Smithsonian Contribution to Zoology No. 84, with 105 pages and 160 illustrations, 1971 (price, with paper covers, \$1.50.) He suggested that this paper should be of interest to Pacific biogeographers because of the several species which had found their way to islands, and also because the larvae of many species feed on plants of the families Urticaceae, Malvaceae and Compositae, well known in the Pacific. In Hawaii, besides the endemic Kamehameha butterfly, *Vanessa tameamea* Eschscholtz, three other species, *Vanessa atalanta rubria* (Fruhstorfer), *Cynthia cardui* (Linnaeus), and *Cynthia virginiensis* (Drury), have become established.”

Davis, C. J. 1965. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 19(1): 13.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/10899/19_1proc.pdf?sequence=1

P. 13. “*Vanessa tameamea* Eschscholtz: Specimens of the Kamehameha butterfly, *V. tameamea*, were exhibited by Mr. Davis for the benefit of visitors and newer members of the Society who may not have had the occasion to see this beautiful native nymphalid. Most of the specimens were reared from caterpillars collected at Kilauea, Hawaii on mamake (*Pipturus sp.*), the principal native host, between January and March of this year.”

Davis, C. J. 1979. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 23(1): 13.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11088/23_1proc.pdf?sequence=1

P. 13. “*Vanessa tameamea* Eschscholtz: Good weather conditions in early May 1976 apparently triggered the emergence of many Kamehameha butterflies during the month of June in Hawaii Volcanoes National Park, and in the Volcano residential areas on the Big Island. Foliar damage on *Pipturus sp.* by the larvae has been very noticeable, particularly in Kipuka Puauulu and Kipuka Ki, Hawaii Volcanoes National Park. C. J. Davis.”

Fullaway, D. T. 1961. Forest insects in Hawaii. Proc. Hawaii. Entomol. Soc. 17(3): 399-401.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/10831/17_399-401.pdf?sequence=1

P. 400. "Byron in his voyage was accompanied by Bloxam, who reported the presence of the butterfly, *Vanessa tameamea* Escholtz."

Funasaki, G.Y., Lai, P. Y., Nakahara, L. M., Beardsley, J. W. and Ota, A. K. 1988. A review of biological control introductions in Hawaii: 1890 to 1985. Proc. Hawaii. Entomol. Soc. 28:105-160. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11226/28_105-160.pdf?sequence=1

P. 139. "*Vanessa tameamea* Eschscholtz" other recorded host of *Braekymeria obscurata* (Walker) Hymenoptera: Chalcididae

Howarth, F. G. 1980. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 23(2): 176.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11103/23_2proc.pdf?sequence=1

P. 176. "Fourth of July Butterfly Count: The Xerces Society sponsors an annual census of butterflies patterned after the Christmas bird count of the Audubon Society. Although this was the third count year elsewhere, our 17 July count was the first in Hawaii. Seven observers, G.A. and S. Samuelson, J.C.E. Riotte, E. and R.C.A. Rice, and N.C. and F.G. Howarth counted butterflies in selected areas within the same 15 mile diameter circle centered near the Pali tunnel as the Honolulu Christmas bird count. Unfortunately, the rainy, windy weather on 17 July accounted for the low numbers of butterflies seen. A fuller report of the count will be published in Wings, the newsletter of the Xerces Society. Eleven species of butterflies were censused as follows: larvae, *Erinota thrax* (L.)—3, adults, *Hylephila phyleus* (Druty)—13, *Papilio xuthus* (L.)—6, *Pieris rapae* (L.)—6, *Danaus plexippus* (L.)—14, *Agraulis vanillae* (L.)—39, *Vanessa tameamea* Esc—2, *Lampides boeticus* (L.)—24, *Strymon bazochii* Godart—1, *Thmolus echeon*—11, and *Vaga blackburni* (Tuely)—21 (a total of 3 larva and 237 adults). F.G. Howarth."

Kotinsky, J. 1906. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 1(1) 14.
<http://scholarspace.manoa.hawaii.edu/handle/10125/7365>

P. 14. "*Pyrameis tameamea*, a beautiful but infrequent sight during the winter months, was observed by Mr. Giffard and himself on Tantalus on March 5th in droves of 20 and more fluttering about certain spots on Koa trees."

Krauss, N. L. H. 1934. Resolution presented December 7. 1933, Proc. Hawaii. Entomol. Soc. 1(2) 391-392. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15862/PHES08_359-394_Notes_Exhib_1933.pdf?sequence=1

P. 391-392. "Mr. Krauss then presented a resolution to the Society as follows:

"Whereas, many states of the American Union have adopted State Birds, State Flowers and State Trees, to promote pride in state and an interest in nature, and

"Whereas, the entomologists of at least one state have adopted a State Butterfly or State Insect, and

"Whereas, many butterflies and other insects are fully as attractive and interesting as flowers and birds, and

"Whereas, the beautiful butterfly known as the Kamehameha (*Vanessa tameamea* Esch.) is the only conspicuous native butterfly in Hawaii and is widely distributed in these islands and is named for a great Hawaiian king, therefore

"Be it resolved, that the Hawaiian Entomological Society hereby adopt the said Kamehameha Butterfly as the Territorial Butterfly or Insect, and

"Be it further resolved, that an appropriate seal be made which shall depict this species, and that this shall be known as the Entomological Seal of the Territory of Hawaii, and

"Be it further resolved, that action be taken to have the Kamehameha Butterfly officially adopted by the Legislature of the Territory of Hawaii as the Territorial Butterfly.

"It was moved and seconded that the motion be adopted.

"Carried."

Pemberton, C. E. 1968. Publications by Francis Xavier Williams. Proc. Hawaii. Entomol. Soc. 20(1) 251-255.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/10945/20_1proc.pdf?sequence=1

P. "1928. The Kamehameha butterfly, *Vanessa tameamea* Esch. Proc. Hawaiian Entomol. Soc. 7(1): 164-69, 3 figs."

Perkins, R. C. L. 1906. Presidential address for 1905, The Insects of Tantalus. Proc. Hawaii. Entomol. Soc. 1(2) 38-51.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15629/PHE01_037-078_Notes_Exhib_1906.pdf?sequence=1

P. 42: "The two butterflies, *Vanessa tameamea* and *Lycaena blackburni* are common, as also their caterpillars, the former on *Pipturus*,"

P. 44: "*Echthromorpha maculipennis* and *Pimpla hawaiiensis*, the Ophionines *Enicospilus mauicola*, *kaalae*, *dispilus*, *molokaiensis* and *dimidiatus* are all parasites of various species of Lepidoptera, *Omiodes*, *Agrotis*, *Vanessa*, and *Scotorythra* being attacked by them.

Perkins, R. C. L. 1907. Insects at Kilauea, Hawaii. Proc. Hawaii. Entomol. Soc. 1(3) 89-99.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15631/PHE01_079-109_Notes_Exhib_1906.pdf?sequence=1

P. 98 "The butterfly *Pyrameis tameamea* is very abundant and very variable in color on the underside,"

Swezey, O. H. 1906. "Observations on Insects During a Recent Trip on Hawaii." Proc. Hawaii. Entomol. Soc. 1(1) 16-19.

<http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/8822/PHE%2001%281%29.pdf?sequence=1>

P. 17. "*Vanessa tameamea*: This beautiful native butterfly is abundant especially above the 1,000 foot elevation."

Swezey, O. H. 1910. Notes on a Day's Insect-Collecting in the Waianae Mountains, Oahu. Proc. Hawaii. Entomol. Soc. 2(3) 113-114.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15640/PHE02_088-150_Notes_Exhib_1909.pdf?sequence=1

P. 114. "the following butterflies were observed flying: *Anosia plexippus*, *Vanessa huntera* and *V. tamehameha*."

Swezey, O. H. 1910. The Feeding Habits of Hawaiian Lepidoptera. Proc. Hawaii. Entomol. Soc. 2(3) 131-143. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15640/PHE02_088-150_Notes_Exhib_1909.pdf?sequence=1

P. 134. "*V. tammeamea* Esch.—On *Pipturus* and related trees, but chiefly on *Pipturus*. The young caterpillar folds over 3, piece of the leaf at the margin to form a hiding place, going out to eat and returning for protection, or it may eat what it can reach of the adjacent leaf without crawling out. As it grows in size it deserts its retreat and makes a larger one from time to time. They may be found by searching for these retreats on the leaves."

Swezey, O. H. 1912. Insects Associated with "Mamake" (*Pipturus albidus*), a Native Hawaiian Tree. Proc. Hawaii. Entomol. Soc. 2(4) 153-163.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15642/PHE02_145-189_Notes_Exhib_1910.pdf?sequence=1

P. 153-154. "*Vanessa tammeamea* Esch.—This is the large native butterfly. Its larvae are large, green, spiny caterpillars which feed upon the leaves. In younger stages they are blackish with white markings and sometimes mauve as well. Frequently a full-grown caterpillar of the mauve coloration is found. When, the larva is quite small it cuts into the edge of a leaf and folds over the partially detached portion to form a "retreat" or hiding place. As it grows, successively larger "retreats" are formed. In searching for caterpillars they may be readily located by looking for these "retreats"; but the full-grown caterpillar is not always found in a "retreat." It is readily seen, however, by its size. This insect is almost exclusively attached to "mamake," but its caterpillars are occasionally found feeding on a few of the related trees, as *Neraudia* and *Boehmeria*."

P. 159. "*Echthromorpha fuscator* Fab.—Parasitizes the chrysalis of *Vanessa tammeamea*."

P. 161. "Insects Attached to *Pipturus*, or Nearly So. Lepidoptera—*Vanessa tammeamea*."

P. 161. "Feeding on the Leaves— *Vanessa tammeamea*."

Swezey, O. H. 1913. A Day's Collecting at Punaluu, Oahu. Proc. Hawaii. Entomol. Soc. 2(5) 197-199. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15644/PHE02_191-311_Notes_Exhib_1911-12.pdf?sequence=1

P. 198. "Macrolepidoptera.—*Vanessa tammeamea*"

Swezey, O. H. 1913. Entomological Program. Proc. Hawaii. Entomol. Soc. 2(5) 209.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15644/PHE02_191-311_Notes_Exhib_1911-12.pdf?sequence=1

P. 209. "Mr. Swezey reported breeding *Pentarthron flavum* P. from eggs of *Vanessa tammeamea* collected on Mt. Olympus, Oahu, January 21, 1912. He had observed a parasite sitting on an egg in situ; and of 11 eggs collected, 5 had already yielded parasites. He exhibited

24 that had emerged from one egg of the butterfly. This is believed to be the first record of this butterfly's eggs being parasited."

Swezey, O. H. 1915. A Preliminary List of the Hymenopterous Parasites of Lepidoptera in Hawaii. Proc. Hawaii. Entomol. Soc. 2(5) 99-109.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15648/PHE03_055-140_Notes_Exhib_1914.pdf?sequence=1

P. 104. "*Pentarthron flavum* Perk.—This tiny egg-parasite I have reared from eggs of *Vanessa tammeamea* Esch.," ... "while from the larger egg of *Vanessa tammeamea*, 24 emerged."

P. 105. "*Echthromorpha fuscator* (Fab.)—This large Ichneumonid has a large number of hosts. I have reared it from the following: *Vanessa tammeamea* Esch.," ... "*Vanessa tammeamea* is its special favorite. One can hardly collect a chrysalis of this butterfly that has not been parasitized. In my experience I have collected but two which yielded butterflies instead of parasites. Dr. Lyon tells me that Mrs. Lyon once collected a large number of the chrysalids in the forests of windward Maui, and obtained very few butterflies from them, the parasites emerging instead. The female oviposits in the host pupa. The chrysalis of *Vanessa tammeamea* hanging fully exposed is easily found by it."

Swezey, O. H. 1918. Entomological Program. Proc. Hawaii. Entomol. Soc. 4(1) 1.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15656/PHE04_001-084_Notes_Exhib_1918.pdf?sequence=1

P. 1. "*Vanessa tammeamea* .—Mr. Swezey reported seeing a Kamehameha butterfly in his garden at Kaimuki The insect seldom comes down from the mountain forests where its native food-plant (*Pipturus*) grows."

Swezey, O. H. 1920. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 4(2) 257.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15665/PHE04_235-362_Notes_Exhib_1919.pdf?sequence=1

P. 257. "*Vanessa tammeamea*.—Mr. Swezey reported having observed the Kamehameha butterfly in the yard of the Hilo Hotel. Some small *Pipturus* trees were found there, and on the leaves were small caterpillars of the butterfly. This is probably the nearest to sea level that it has been found breeding."

Swezey, O. H. 1922. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 5(1) 8.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15686/PHE05_001-038_Notes_Exhib_1921.pdf?sequence=1

P. 8. "*Vanessa callirhoea*.—Mr. Swezey exhibited a set of wings of this butterfly sent him by Mr. Charles E. Hempel from Funchal, Madeira Islands. They have markings more nearly like *Vanessa tammeamea* than has any other species. Each species is similarly confined to an isolated group of islands, which are separated by many thousand miles."

P. 8. "*Vanessa tammeamea* .—Mr. Swezey stated that Mr. Caum reported to him the finding of 6 chrysalids of this butterfly attached to the leaves of the awa (*Piper methysticum*) in Pukoo Valley, Molokai, February 15, 1921. Butterflies issued from 5 of the chrysalids, and a *Chalcis obscurata* from the remaining one. This is the first record of this as a host for this parasite."

Swezey, O.H. 1924. The Insect Fauna of Trees and Plants as an Index of Their Endemicity and Relative Antiquity in the Hawaiian Islands. Proc. Hawaii. Entomol. Soc. 06(01) 195-210.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/14749/06%281%29_195-210.pdf?sequence=1

P. 200. "The mamake tree (*Pipturus albidus*) supports quite a large native insect fauna. The large spiny caterpillar of the Kamehameha butterfly (*Vanessa tameamea* Esch.) feeds on the foliage of this tree. It also feeds on *Neraudia*, *Urera*, *Tauchardia* and *Boehmeria* to a slight extent (all closely related trees), but *Pipturus* is the chief host on all the Islands."

Swezey, O.H. 1927. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 06(3) 356.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/14778/06%283%29_345-380.pdf?sequence=1

P. 356. *Chaetogaedia monticola* (Bigot)—A specimen of this tachinid fly was exhibited by Mr. Swezey that had been reared by Mr. Williams from a chrysalis of *Vanessa tammeamea* Esch. , the caterpillar of which had been collected on the trail from Sugar Loaf hill into Hering valley. This is a new host record for this tachinid."

Swezey, O. H. 1929. The Earliest Described Hawaiian Insects. Proc. Hawaii. Entomol. Soc. 07(2):

267-269. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15780/PHES07_267-269.pdf?sequence=1

P. 268. Referring to *Echthromorpha fuscator* (Fabr.) (= *Echthromorpha maculipennis* Holmgren) "This is a very important insect in the control of Lepidoptera in the Hawaiian Islands. With its rigid ovipositor it oviposits into the host pupa, oftentimes where enclosed within cocoon or spun together leaves. A common host is the suspended chrysalis of the Kamehameha butterfly, *Vanessa tammeamea* Esch. . Collectors who have been so fortunate as to find a number of these chrysalids and have anticipated obtaining a goodly number of the butterfly, have always been disappointed, for always more of the parasite would issue than of the butterfly. Other hosts from which it has been reared are: *Vanessa cardui* (L.).

Swezey, O. H. 1929. List of Lepidoptera at the Bishop Museum, Collected by J. August Kusche on Kauai in 1919 and 1920. Proc. Hawaii. Entomol. Soc. 07(2): 273-278.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15783/PHES07_273-278.pdf?sequence=1

P. 275. "11 *Vanessa tammeamea* Esch.", table showing collected at the following locations: Kokee, Kaholuamano and Olokele Canyon.

Swezey, O. H. 1929. Notes on the Egg-parasites of Insects in Hawaii. Proc. Hawaii. Entomol. Soc.

07(2): 282-292. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15787/PHES07_282-292.pdf?sequence=1

P. 287. Host for *Trichogramma minutum* Riley: "*V. tammeamea* Esch."

Swezey, O. H. 1931. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 07(3): 360.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15792/PHE07_331-366_Notes_Exhib_1929.pdf?sequence=1

P. 360. "In the same report it is stated that the cabbage butterfly was first noticed in Honolulu, September, 1898, and that *Pteromalus puparum* was introduced from California in 1898. Mr. Koebele says about this parasite: "Has been present on the islands for a long time, as we have bred it from the chrysalid of the native butterfly *Pyrameis tamehameha*"

Swezey, O. H. 1931. Some Observations on the Insect Faunas of Native Forest Trees in the Olinda Forest on Maui. Proc. Hawaii. Entomol. Soc. 07(3): 493-504.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15819/PHE07_493-504.pdf?sequence=1

P. 499. Relating to *Pipturus albidus*: "*Vanessa tammeamea* Esch. Kamehameha butterfly. Larvae on leaves"

Swezey, O. H. 1934. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 08(3): 387.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15862/PHE08_359-394_Notes_Exhib_1933.pdf?sequence=1

P. 387. "*Trichogramma minutum* Riley.—Mr. Swezey exhibited a vial with 43 of this egg-parasite which had issued from two eggs of the Kamehameha butterfly, *Vanessa tammeamea* Esch. Four eggs had been found, three of them on the under side of a leaf of *Urera sandwicensis* in Kamokunui Valley, Waianae Mts., October 1, 1933; the other egg on a leaf of *Pipturus albidus* which is the most usual host of the Kamehameha butterfly. From two of these eggs, parasites had already issued. The parasites issued from the two others on October 3."

Swezey, O. H. 1939. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 10(2): 176.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15981/PHE10_176-198_Notes_Exhib_1938.pdf?sequence=1

P. 176. "*Vanessa tammeamea* Esch.—Mr. Swezey exhibited a specimen of this native butterfly which was captured by Mrs. Swezey, Dec. 30, 1937, on the porch of their residence in lower Manoa. This butterfly is rarely found so far from its natural habitat in the mountain forests."

Swezey, O. H. 1940. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 10(3): 360.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/16007/PHE10_353-373_Notes_Exhib_1939.pdf?sequence=1

P. 360. "*Vanessa tammeamea* Esch.—Mr. Swezey reported that he had caught a worn specimen of the Kamehameha butterfly when it came to light at his house on Lanihuli Drive, Manoa Valley, on the evening of April 25th."

Swezey, O. H. and Bryan, E.H. Jr. 1926. Notes on Some Forest Insects of Molokai. Proc. Hawaii. Entomol. Soc. 06(3):411-422.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/14790/06%283%29_411-422.pdf?sequence=1

P. 418. "*Vanessa tammeamea* Eschscholtz, Kamiloloa and Waikolu, adults; larvae on *Pipturus*, none reared."

Swezey, O. H. and Bryan, E.H. Jr. 1929. Further Notes on the Forest Insects of Molokai Proc. Hawaii. Entomol. Soc. 07(2): 293-314.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15788/PHE07_293-314.pdf?sequence=1

P. 310. Relating to *Pipturus albidus*: "*Vanessa tammeamea* Esch., larva on leaves."

Swezey, O. H. and Williams, F. X. 1932. Some Observations on Forest Insects at the Nauhi Nursery and Vicinity on Hawaii. Proc. Hawaii. Entomol. Soc. 08(1): 179-190.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15840/PHE08_179-190.pdf?sequence=1

P. 186. "*Vanessa tammeamea* Esch. This butterfly was observed, and its caterpillars also observed on *Pipturus*. None was reared or collected."

Tabashnik, B. 1986. Announcements. Proc. Hawaii. Entomol. Soc. 26(1): 12.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11186/26_proc.pdf?sequence=1

P. 12. "Dr. Bruce Tabashnik needs information leading to high density populations of *Vanessa tameamea*. A monastery, at Wood Valley on the island of Hawaii was suggested as a good source of *V. tameamea* larvae."

Terry, F. W. 1906. In discussion of paper by Kotinsky "The History of Economic Entomology in Hawaii." Proc. Hawaii. Entomol. Soc. 1(1) 12.

<http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/8822/PHE%2001%281%29.pdf?sequence=1>

P. 12. "Mr. Terry stated that *Vanessa tameamea* is also at times found in town."

Timberlake, P. H. 1920. Notes on the Immigrant Hawaiian Species of Ichneumonini or Pimplini of Authors (Hymenoptera). Proc. Hawaii. Entomol. Soc. 4(2) 266-275.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15665/PHE04_235-362_Notes_Exhib_1919.pdf?sequence=1

P. 271. Referring to *Ephialtes hawaiiensis* (Cameron) (= *Pimpla hawaiiensis* Cameron): "Perkins (Proc. Haw. Ent. Soc. 1, 1906, p. 44) recorded it with other parasites from *Omiodes*, *Agrotis*, *Vanessa* and *Scotoryflira*, so that some of these records almost certainly do not apply to this species."

Weber, P. 1936. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 09(2): 145.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15900/PHE09_109-152_Notes_Exhib_1935.pdf?sequence=1

P. 145. "*Vanessa tammeamea* Esch.—Mr. Phil Weber reported that on August 5 before the CCC cut the Mt. Tantalus trails, there was a wounded koa tree right above the trail after the third bend, about 50 yards straight up from the Hawaiian Warrior marking Tantalus summit. A friend and he used to go to this tree catching *Vanessa tammeamea*, which drank the sap issuing from the wound. Beneath the tree were approximately 500 wings of *V. tammeamea*, scattered on the grass. His guess was that the butterflies became intoxicated by the sap, which smelt exactly

like beer, and fell to the ground, where they were either wet by rain, so as to render them incapable of flight, or were attacked by ants. The sap smelt and tasted exactly like beer. It was white and foamy. The tree is no more, having been taken by the CCC because it overhung the path.”

Williams, F. X. 1921. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 4(3) 453.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15676/PHE04_451-538_Notes_Exhib_1920.pdf?sequence=1

P. 453. “*Vanessa tammeamea*.—Mr. Williams reported observing this butterfly clustering in numbers on the under side of the limb of a koa tree. There were seven in the largest cluster. It resembled the hibernation habit of similar butterflies in the Temperate zone, and may be the relic of an instinct.”

Williams, F. X. 1928. The Kamehameha Butterfly, *Vanessa Tammeamea* Esch. . Proc. Hawaii. Entomol. Soc. 07(1): 164-169.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15763/PHE07_164-169.pdf?sequence=1

P. 164-169. THE ENTIRE PAPER IS TOO LONG TO INCLUDE HERE BUT CAN BE SOURCED AT THE ABOVE WEB SITE.

***Vanessa atalanta* Linn.**

Synonyms: *Pyrameis atalanta*

Vanessa atalanta subsp. *rubria*

Bryan, E. H. Jr. 1972. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 21(2): 145.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/10999/21_2proc.pdf?sequence=1

“E. H. Bryan, Jr. submitted a review of a recent publication, Butterflies of the genus *Vanessa* and of the resurrected genera *Bassaris* and *Cynthia* (Lepidoptera: Nymphalidae), by William D. Field, published as Smithsonian Contribution to Zoology No. 84, with 105 pages and 160 illustrations, 1971 (price, with paper covers, \$1.50.) He suggested that this paper should be of interest to Pacific biogeographers because of the several species which had found their way to islands, and also because the larvae of many species feed on plants of the families Urticaceae, Malvaceae and Compositae, well known in the Pacific. In Hawaii, besides the endemic Kamehameha butterfly, *Vanessa tameamea* Eschscholtz, three other species, *Vanessa atalanta rubria* (Fruhstorfer), *Cynthia cardui* (Linnaeus), and *Cynthia virginiensis* (Drury), have become established.”

Fullaway, D. T. 1922. Insects Collected at Waimea, Hawaii. Proc. Hawaii. Entomol. Soc. 5(1): 11-

12. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15686/PHE05_001-038_Notes_Exhib_1921.pdf?sequence=1

P. 11. “*Vanessa atalanta*.”

Perreira, W. D. and Montgomery, S. L. 1986. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 26(1): 8.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11186/26_proc.pdf?sequence=1
P. 8. "*Vanessa atalanta* (L.), a new island record; On October 9, 1983, a red admiral butterfly, *Vanessa atalanta* (L.) (Lepidoptera: Nymphalidae), in excellent condition was collected by W.D. Perreira on the ridge trail leading to Konahuanui from Tantalus, Oahu, at an elevation of 676 meters. Examination of collections uncovered one heavily worn specimen of this species collected in Palolo Valley, Oahu, by D. Cho during 1974. J.W. Beardsley found this specimen in a student collection, but suspected it to be a waif rather than established on Oahu nettles (Urticaceae). These two specimens represent a new island record for this nymphalid. In previous years, *V. atalanta* has been taken occasionally from Hawaii and is also known from a single Kauai specimen. W.D. Perreira & S.L. Montgomery."

Swezey, O. H. 1910. The Feeding Habits of Hawaiian Lepidoptera. Proc. Hawaii. Entomol. Soc. 2(3) 131-143. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15640/PHE02_088-150_Notes_Exhib_1909.pdf?sequence=1

P. 134. "*Vanessa atalanta* Linn.—On *Pipturus* and probably related trees."

Swezey, O. H. 1933. New Records of Insects on Molokai, and Miscellaneous Notes. Proc. Hawaii. Entomol. Soc. 08(2): 273-274.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15854/PHE08_273-274.pdf?sequence=1

P. 274. "*Vanessa atalanta* (Linn.). A ragged specimen of this butterfly was collected on Kumuwela Ridge, Kauai, June 27, 1932. This is the first record of this butterfly on any of the Islands except Hawaii, where it has been known for quite a long while."

***Vanessa cardui* Linn.**

Synonyms: *Cynthia cardui**

*Pyrameis cardui**

Bianchi, F. A. 1952. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 14(3): 349.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/16249/PHE14_343-370_Notes_Exhib_1951.pdf?sequence=1

P. 349. "*Pachyneuron syrphi* (Ashmead) — Mr. Bianchi exhibited a series of both sexes of this pteromalid, about 50 of which had emerged from the chrysalis of the butterfly, *Vanessa cardui* (L.) collected on February 13 at Waikii, Hawaii. No evidence of any other parasite was found within the chrysalis, so it is assumed that in this case *Pachyneuron* acted as a primary parasite. In any case, the rearing of it from a butterfly chrysalis, whether primary or secondary, appears to constitute a new record of parasitism. *Pachyneuron allograptae* Ashmead is a synonym of *A. syrphi*."

Bryan, E. H. Jr. 1925. Additional Notes on the Insects Occurring on Mauna Kea and Mauna Loa. Proc. Hawaii. Entomol. Soc. 06(2): 280-282.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/14764/06%282%29_280-282.pdf?sequence=1

P. 281. Referring to Mauna Loa, Mokuaweoweo, about 13,000 feet elevation. "Two butterflies, besides the already reported *Pontia rapae*, were captured or seen: *Vanessa cardui* Linn, and *Lycaena boetica* (Linn.). Both were in the crater, and both lively."

P. 282. "*Vanessa cardui* (Linn.). Mauna Loa."

Bryan, E. H. Jr. 1972. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 21(2): 145.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/10999/21_2proc.pdf?sequence=1

"E. H. Bryan, Jr. submitted a review of a recent publication, Butterflies of the genus *Vanessa* and of the resurrected genera *Bassaris* and *Cynthia* (Lepidoptera: Nymphalidae), by William D. Field, published as Smithsonian Contribution to Zoology No. 84, with 105 pages and 160 illustrations, 1971 (price, with paper covers, \$1.50.) He suggested that this paper should be of interest to Pacific biogeographers because of the several species which had found their way to islands, and also because the larvae of many species feed on plants of the families Urticaceae, Malvaceae and Compositae, well known in the Pacific. In Hawaii, besides the endemic Kamehameha butterfly, *Vanessa tameamea* Eschscholtz, three other species, *Vanessa atalanta rubria* (Fruhstorfer), *Cynthia cardui* (Linnaeus), and *Cynthia virginiensis* (Drury), have become established."

Davis, C. J. 1979. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 23(1): 20.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11088/23_1proc.pdf?sequence=1

P. 20. "*Vanessa cardui* (Linnaeus): Twenty *V. cardui* caterpillars collected at Volcano, Hawaii, 1,188 m elevation ex globe artichoke, *Cynara scolymus*, developed into twenty chrysalis and of these, eighteen painted lady butterflies and one undertermined tachinid fly emerged. This is believed to be the first record of *V. cardui* from globe artichoke in Hawaii. C. J. Davis."

Davis, C. J. 1980. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 23(2): 163-164.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11103/23_2proc.pdf?sequence=1

P. 163-164. "*Vanessa cardui* (L.): A number of the painted lady butterfly were reared from artichoke, *Cynara scolymus*, and comfrey, *Symphytum sp.* between August and December, 1976 at Volcano, Hawaii, 1188 M. elevation. Comfrey is a new host record for this nymphalid. C.J. Davis."

Etchegaray, J. B. and Nishida, T. 1975. Reproductive activity, seasonal abundance and parasitism of the monarch butterfly, *Danaus plexippus* (Lepidoptera: Danaidae) in Hawaii. Proc. Hawaii. Entomol. Soc. 22(1): 33-39.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11041/22_33-39.pdf?sequence=1

P. 33. "In the Hawaiian Islands the insects parasitized by *L. archippivora*, aside from *D. plexippus*, include armyworm, *Pseudoletia unipuncta* (Haworth); cabbage butterfly, *Pieris rapae* (Linnaeus); sugarcane leaf roller, *Hedylepta accepta* (Butler); painted lady, *Vanessa cardui* (Linnaeus); corn earworm, *Heliothis zea* (Boddie); black cutworm, *Agrotis ypsilon* (Rottemburg); and coconut leaf roller, *Hedylepta blackburni* (Butler)."

Etchegaray, J. B and Nishida, T. 1975. Biology of *Lespesia archippivora* (Diptera: Tachinidae). Proc. Hawaii. Entomol. Soc. 22(1): 41-49.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11042/22_41-49.pdf?sequence=1

P. 41. Among 25 species of Lepidoptera parasitized by *Lespesia archippivora*: "*Vanessa cardui* (L.)"

Funasaki, G.Y., Lai, P. Y., Nakahara, L. M., Beardsley, J. W. and Ota, A. K. 1988. A review of biological control introductions in Hawaii: 1890 to 1985. Proc. Hawaii. Entomol. Soc. 28:105-160. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/11226/28_105-160.pdf?sequence=1

P. 135. "*Vanessa cardui* (L.)" other recorded host of *Pteromalus pupantm* (L.) Hymenoptera: Pteromalidae.

P. 141. "*Vanessa cardui* (L.)" other recorded host of *Lespesia archippivora* (Riley) Diptera: Tachinidae.

Kim, J. Y. 1959. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 17(1) 9.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/10792/17_1proc.pdf?sequence=1

P. 9. "*Vanessa cardui* (L.): Mr. Kim reported seeing hundreds of this nymphalid butterfly feeding at flower heads of *Verbesina encelioides* (Cav.) Benth., a common wild composit, on March 14, 1958, in the vicinity of Camp Erdman, Mokuleia, Oahu. An ichneumonid parasite, *Pterocormus rufiventris* (Brulle), was reared from a larva of this butterfly found feeding on *Malva parviflora* L. at Waianae, Oahu, during March."

Krauss, N. L. H. 1941. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 11(1) 10.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/16033/PHEs11_001-022_Notes_Exhib_1940.pdf?sequence=1

P. 10. "Painted Lady, *Vanessa cardui* (Linn.).—Larvae abundant on Tree Tobacco on road between Kula Sanitarium and Makena, Maui, April 14, 1940."

Krauss, N. L. H. 1941. Notes on Some Hawaiian Insects. Proc. Hawaii. Entomol. Soc. 12(2) 309-317. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/16115/PHEs12_309-317.pdf?sequence=1

P. 315. "*Vanessa cardui* L., Hilo, Hawaii, April 12, 1944, larvae numerous on leaves of *Artemisia vulgaris* L., 1 reared; Waimea, Hawaii, April 26, 1 reared from leaves of *Arctium lappa* L."

Fullaway, D. T. 1922. Insects Collected at Waimea, Hawaii. Proc. Hawaii. Entomol. Soc. 5(1) 11-12. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15686/PHEs05_001-038_Notes_Exhib_1921.pdf?sequence=1

P. 11. "*Vanessa cardui* on *Cirsium lanceolatum* so-called Scotch thistle."

Illingworth, J. F. 1923. A List With Notes of the Insects Found on the Parker Ranch, June, 1922. Proc. Hawaii. Entomol. Soc. 5(2) 277-279.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15713/PHEs05_277-279.pdf?sequence=1

P. 278. "*Vanessa cardui* Linn., on thistle."

Swezey, O. H. 1907. Observations on recent Swarms of Caterpillars at Kaimuki. Proc. Hawaii. Entomol. Soc. 1(4) 118-119.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15633/PHE01_111-161_Notes_Exhib_1907.pdf?sequence=1

P. 118. "*Vanessa cardui*, feeding on *Malva*."

Swezey, O. H. 1910. The Feeding Habits of Hawaiian Lepidoptera. Proc. Hawaii. Entomol. Soc. 2(3) 131-143. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15640/PHE02_088-150_Notes_Exhib_1909.pdf?sequence=1

P. 134-135. "*V. cardui* Linn.—Feeds in a web on *Malva rotundifolia*. I have also taken an occasional caterpillar on cocklebur (*Xanthium*); and have seen them on thistles on Haleakala, Maui. Once I found a few on *Nicotiana* in Honolulu."

Swezey, O. H. 1913. Miscellaneous Notes. Proc. Hawaii. Entomol. Soc. 2(5): 193-194.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15644/PHE02_191-311_Notes_Exhib_1911-12.pdf?sequence=1

P. 194. "also occur in the Hawaiian Islands: *Pyrameis cardui* C,"

Swezey, O. H. 1915. A Preliminary List of the Hymenopterous Parasites of Lepidoptera in Hawaii. Proc. Hawaii. Entomol. Soc. 2(5) 99-109.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15648/PHE03_055-140_Notes_Exhib_1914.pdf?sequence=1

P. 105. Referring to *Echthromorpha fuscator* (Fabr.): "Dr. Perkins records it from *Vanessa cardui* (L.)."

Swezey, O. H. 1929. The Earliest Described Hawaiian Insects. Proc. Hawaii. Entomol. Soc. 07(2): 267-269. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15780/PHE07_267-269.pdf?sequence=1

P. 268. Referring to *Echthromorpha fuscator* (Fabr.) (= *Echthromorpha maculipennis* Holmgren) "This is a very important insect in the control of Lepidoptera in the Hawaiian Islands. With its rigid ovipositor it oviposits into the host pupa, oftentimes where enclosed within cocoon or spun together leaves. A common host is the suspended chrysalis of the Kamehameha butterfly, *Vanessa tameamea* Esch. . Collectors who have been so fortunate as to find a number of these chrysalids and have anticipated obtaining a goodly number of the butterfly, have always been disappointed, for always more of the parasite would issue than of the butterfly. Other hosts from which it has been reared are: *Vanessa cardui* (L.)."

Swezey, O. H. 1929. List of Lepidoptera at the Bishop Museum, Collected by J. August Kuschel on Kauai in 1919 and 1920. Proc. Hawaii. Entomol. Soc. 07(2): 273-278.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15783/PHE07_273-278.pdf?sequence=1

P. 275. "1 " *cardui* Linn. " table showing collected at the following location: Waialeale.

Swezey, O. H. 1929. Notes on the Egg-parasites of Insects in Hawaii. Proc. Hawaii. Entomol. Soc. 07(2): 282-292. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15787/PHE07_282-292.pdf?sequence=1

P. 287. Host for *Trichogramma minutum* Riley: "*Vanessa cardui* (Linn.),"

Swezey, O. H. 1935. The Winter Revival of Insect Life in the Arid Region at Koko Head, Oahu. Proc. Hawaii. Entomol. Soc. 09(1): 093-096.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15895/PHE09_093-096.pdf?sequence=1

P. 94. "*Vanessa cardui* (Linn.). Thistle butterfly caterpillars were found feeding on Malva. They were 10 percent parasitized by *Frontina*."

Swezey, O. H. 1944. Keys to Some Lepidopterous Larvae Found in Gardens and Homes in Hawaii. Proc. Hawaii. Entomol. Soc. 12(01): 138-145.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/16099/PHE12_138-145.pdf?sequence=1

P. 140. "Without the above dorsal white spots; more hairy, hairs white. Caterpillar on thistle, Malva, burdock and hollyhock. Thistle butterfly, or painted lady *Vanessa cardui* (Linn.)"

Swezey, O. H. 1947. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 13(01): 5.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/16151/PHE13_001-031_Notes_Exhib_1946.pdf?sequence=1

P. 5. "*Vanessa cardui* (L.)—Dr. Swezey exhibited parasites from pupae of this butterfly. Three caterpillars from Oahu Sugar Co. yielded one tachinid (*Frontina archippivora* [Williston]) and one ichneumonid (*Pterocormus rufiventris* [Brulie]), a parasitism of 66 per cent."

Williams, F. X. 1929. Notes and Exhibitions. . Proc. Hawaii. Entomol. Soc. 07(2): 202-203.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15773/PHE07_201-241_Notes_Exhib_1928.pdf?sequence=1

P. 202-203. "*Amblyteles rufiventris* (Brulle).—Dr. Williams exhibited three specimens of this ichneumonid, two were reared July 5, 1925 by Mr. Swezey from two pupae of *Vanessa cardui*, and the third by F. X. Williams, July 15, 1927, from a pupa of *Vanessa huntera*. All were from Tantalus and were identified by Mr. Cushman as *Amblyteles rufiventris* (Brulle), var. or variation. It has a wide distribution in temperate America."

***Vanessa virginiensis* (Drury)**

Synonyms: *Cynthia virginiensis* *

Pyrameis huntera

Pyrameis virginiensis

Vanessa huntera *

Bryan, E. H. Jr. 1972. Notes and Exhibitions. Proc. Hawaii. Entomol. Soc. 21(2) 145.
http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/10999/21_2proc.pdf?sequence=1
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Swezey, O. H. 1907. Observations on recent Swarms of Caterpillars at Kaimuki. Proc. Hawaii. Entomol. Soc. 1(4) 118-119.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15633/PHE01_111-161_Notes_Exhib_1907.pdf?sequence=1

P. 114. “the following butterflies were observed flying: *Anosia plexippus*, *Vanessa huntera* and *V. tameamea*.”

P. 118. “*Vanessa huntera*, feeding on *Gnaphalium*.”

Swezey, O. H. 1910. Notes on a Day's Insect-Collecting in the Waianae Mountains, Oahu. Proc. Hawaii. Entomol. Soc. 2(3) 113-114.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15640/PHE02_088-150_Notes_Exhib_1909.pdf?sequence=1

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Swezey, O. H. 1910. The Feeding Habits of Hawaiian Lepidoptera. Proc. Hawaii. Entomol. Soc. 2(3) 131-143. http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15640/PHE02_088-150_Notes_Exhib_1909.pdf?sequence=1

P. 135. “*V. huntera* Fab.—Feeds in a web on leaves of *Gnaphalium*.”

Swezey, O. H. 1910. Notes on a Day's Insect-Collecting in the Waianae Mountains, Oahu. Proc. Hawaii. Entomol. Soc. 2(3) 113-114.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15640/PHE02_088-150_Notes_Exhib_1909.pdf?sequence=1

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Swezey, O. H. 1929. List of Lepidoptera at the Bishop Museum, Collected by J. August Kusche on Kauai in 1919 and 1920. Proc. Hawaii. Entomol. Soc. 07(2): 273-278.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15783/PHE07_273-278.pdf?sequence=1

P. 275. "1 # " *virginiensis* Drury." table showing collected at the following location: Kokee. The # indicates that the species had not recorded from Kauai in the Fauna Hawaiiensis."

Swezey, O. H. 1944. Keys to Some Lepidopterous Larvae Found in Gardens and Homes in Hawaii. Proc. Hawaii. Entomol. Soc. 12(01): 138-145.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/16099/PHE12_138-145.pdf?sequence=1

P. 140. "Two round white spots dorsally on abdominal segments 2-8; sparsely hairy. Caterpillar on *Gnaphalium*. Hunter's butterfly *Vanessa virginensis* Drury. "

Williams, F. X. 1929. Notes and Exhibitions. . Proc. Hawaii. Entomol. Soc. 07(2): 202-203.

http://scholarspace.manoa.hawaii.edu/bitstream/handle/10125/15773/PHE07_201-241_Notes_Exhib_1928.pdf?sequence=1

P. 202-203. "*Amblyteles rufiventris* (Brulle).—Dr. Williams exhibited three specimens of this ichneumonid, two were reared July 5, 1925 by Mr. Swezey from two pupae of *Vanessa cardui*, and the third by F. X. Williams, July 15, 1927, from a pupa of *Vanessa huntera*. All were from Tantalus and were identified by Mr. Cushman as *Amblyteles rufiventris* (Brulle), var. or variation. It has a wide distribution in temperate America.