

Bibliography of and New Taxa Described by D. Elmo Hardy (1936–2001)¹

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Abstract

A complete list of the publications authored or co-authored by D. Elmo Hardy, including notes presented at meetings, is given in chronological order. Additionally, a complete list of the new taxa of Diptera described by Hardy is presented.

Introduction

Over his exceptionally long and productive career of 65 years, D. Elmo Hardy published over 437 articles and notes proposing 1,867 new species-group names in 34 different families of Diptera. His proclivity in publishing and describing species is amazing when one considers the amount of time Elmo spent each year traveling on sabbaticals, attending international meetings, visiting family on the mainland U.S. almost every Christmas, and still meeting his teaching responsibilities. We present here as complete a list as possible of every published item attributed to his authorship or co-authorship. We include his many published notes that were presented at various meetings of the Hawaiian Entomological Society. These were not listed by Elmo in his own tracking of his publications, but in many cases, new state records or other novel biological observations are included in those notes and no where else and thus are essential literature references.

A second section lists all new taxa (family-group, genus-group; species-group) that were proposed by Elmo as an author or co-author. The four major families that garnered his attention were Tephritidae (465 new species-group names), Drosophilidae (444), Pipunculidae (346), and Bibionidae (305); although Elmo is also well-known for his major contributions toward the Hawaiian dolichopodid fauna (109 new species-group names).

Lastly, an assessment of Elmo's contribution to Diptera taxonomy is presented in comparison to the top thirteen dipterists.

Complete List of the Scientific Writings of D. Elmo Hardy

The following is a complete listing of all printed articles and notes attributed to Elmo Hardy (either as author or co-author) giving full citation data as well as accurate dating of each publication. All dating of the *Proceedings of the Hawaiian Entomological Society* derives from Evenhuis (1995, *Proceedings of the Hawaiian Entomological Society* 32: 39–44). All other dating, if derived from sources outside the journal issue, are annotated. Boldface numbers are Hardy's numbering system [also used in his bibliography in *Beiträge zur Entomologie* 31: 3–11 (1981)]. Articles not numbered by Hardy are indicated by open brackets “[]”. Co-authors are listed in boldface after the citation with Hardy indicated by “DEH”.

1. Contribution no. 2003-019 to the Hawaii Biological Survey.

1936

1. A new Bibionidae (Diptera) from Utah. *Proceedings of the Utah Academy of Science, Arts and Letters* **13**: 195. [July 1936]

1937

2. New Bibionidae (Diptera) from Nearctic America. *Proceedings of the Utah Academy of Science, Arts and Letters* **14**: 199–213. [July 1937]

1938

3. New Therevidae (Diptera) from Utah. *Annals of the Entomological Society of America* **31**(2): 144–146. [29 June 1938]
5. Blood-sucking Utah Diptera. *Proceedings of the Utah Academy of Science, Arts and Letters* **15**: 103–105. [Co-authored: DEH, **Knowlton, G.F.** & **Harmston, F.C.**] [June 1938]
4. New Bibionidae from British Columbia. *Canadian Entomologist* **70**(9): 207–210. [5 November 1938]

1939

7. New Nearctic Pipunculidae (Diptera). *Journal of the Kansas Entomological Society* **12**(1): 16–25. [24 January 1939]
8. New and little known western Pipunculidae (Diptera). *Annals of the Entomological Society of America* **32**(1): 113–123. [Co-authored: DEH & **Knowlton, G.F.**] [20 March 1939]
6. New and little known Utah Pipunculidae (Diptera). *Canadian Entomologist* **71**(4): 87–91. [Co-authored: DEH & **Knowlton, G.F.**] [5 May 1939]

1940

9. Studies in New world *Plecia* (Bibionidae-Diptera). Part I. *Journal of the Kansas Entomological Society* **13**(1): 15–27. [January 1940]
10. Dorylaidae notes and descriptions (Pipunculidae-Diptera). *Journal of the Kansas Entomological Society* **13**(4): 101–114. [October 1940]

1942

11. A note on leafhopper abundance. *Journal of the Kansas Entomological Society* **15**(1): 34. [January 1942]
12. New western Asilidae. *Journal of the Kansas Entomological Society* **15**(2): 57–61. [April 1942]
13. Studies in New World *Plecia* (Bibionidae-Diptera). Part II. *Canadian Entomologist* **74**(6): 105–116. [19 June 1942]
14. [Supplementary material and figure. In: Johnson, D.E.] A new *Cyrtopogon* (Asilidae, Diptera) from Utah. *Great Basin Naturalist* **3**(1): 1–4. [30 June 1942]
[The title page of the article has “15 June”, but the reprint in the library at SI has “mailed June 30, 1942” printed at the top of the first page.]
15. Studies in New World *Philia* (Bibionidae). Part I. *Journal of the Kansas Entomological Society* **15**(4): 127–134. [October 1942]
16. Notes on Diptera in the Snow Entomological Collection. *Journal of the Kansas Entomological Society* **15**(4): 142–143. [October 1942]

1943

17. New Therevidae and Asilidae in the Snow Entomological Collection. *Journal of the Kansas Entomological Society* **16**(1): 24–29. [January 1943]
18. Studies in *Phyllomydas* (Mydidae-Diptera). *Journal of the Kansas Entomological Society* **16**(2): 50–52. [April 1943]
19. Revision of Nearctic Dorilaidae (Pipunculidae). *Kansas University Science Bulletin* **29**(1): 3–231. [15 July 1943]

1944

21. Medical entomology in Assam, India. *China-Burma-India Theatre Medical Bulletin* **1944** (January): 1–44. [January 1944]
22. A revision of North American Omphralidae (Scenopinidae) [part]. *Journal of the Kansas Entomological Society* **17**(1): 31–40. [17 March 1944]
23. A revision of North American Omphralidae (Scenopinidae) [concl.]. *Journal of the Kansas Entomological Society* **17**(2): 41–51. [12 June 1944]
24. A new *Pseudotrichia* from Brazil (Omphralidae-Scenopinidae). *Journal of the Kansas Entomological Society* **17**(3): 104–105. [8 July 1944]

1945

20. New Asilidae and Mydidae (Diptera) in the Snow Collection. *Canadian Entomologist* **76**(11)[1944]: 226–230. [19 January 1945]
25. Revision of Nearctic Bibionidae, including Neotropical *Plecia* and *Penthetria* (Diptera). *Kansas University Science Bulletin* **30**(2): 367–547. [15 June 1945]

1946

27. A new pest of strawberries in Iowa. *Transactions of the Iowa State Horticultural Society* **81**: 165–170. [after 14 November 1946]

1947

26. Nomenclature notes on the family Dorilaidae (Pipunculidae-Diptera). *Journal of the Kansas Entomological Society* **19**(4)[1946]: 135–137. [7 January 1947]
28. The Nearctic *Ptiolina* (Rhagionidae—Diptera) (Rhagionidae—Diptera). *Journal of the Kansas Entomological Society* **20**(1): 1–15. [Co-authored: DEH & McGuire, J.U.] [17 February 1947]
29. The genus *Leptopteromyia* (Asilidae-Diptera). *Journal of the Kansas Entomological Society* **20**(2): 72–75. [7 May 1947]
30. Notes and descriptions of Dorilaidae (Pipunculidae-Diptera). *Journal of the Kansas Entomological Society* **20**(4): 146–153. [27 December 1947]

1948

33. *Aristotelia fragariae* Busck on strawberries in Iowa. *Journal of Economic Entomology* **41**(1): 108. [February 1948]
32. Homonymy notes in the Bibionidae. *Journal of the Kansas Entomological Society* **21**(1): 36. [17 March 1948]
37. Neotropical Dorilaidae studies. Part I. *Psyche* **55**(1): 1–15. [30 June 1948]
34. Notes and descriptions of Dorilaidae. Part II. (Pipunculidae-Diptera). *Journal of the Kan-*

- sas Entomological Society* **21**(3): 88–91. [31 August 1948]
38. Bibionidae-Diptera. *The British Museum (Natural History) Ruwenzori Expedition, 1934–1935* **1**(6): 109–127. [23 October 1948]
35. New and little known Neotropical Dorilaidae. *Journal of the Kansas Entomological Society* **21**(4): 124–133. [30 December 1948]

1949

36. New and little known Diptera in the California Academy of Sciences Collection. *Wasmann Collector* **7**(4)[1948]: 129–137. [18 January 1949]
[Printed date is “December 1948; however, the issue is stamped as “18 January 1949”.]
31. The periodical cicada, brood III, in Iowa. *Proceedings of the Iowa Academy of Science* **54** [1947]: 311–315. [January 1949]
[Dated from the editor’s report in vol. 56: 29.]
[] [Notes and exhibitions.] New host of melon fly. *Proceedings of the Hawaiian Entomological Society* **13**(3): 339. [25 March 1949]
39. The North American *Chrysopilus* (Rhagionidae—Diptera). *American Midland Naturalist* **41**(2): 143–167. [31 March 1949]
40. Studies in Oriental Bibionidae. Part I. *Notes d’Entomologique Chinoise* **13**(1): 1–10. [15 April 1949]
41. New Bibionidae from Madagascar. *Journal of the Kansas Entomological Society* **22**(3): 94–96. [1 July 1949]
42. Studies in Hawaiian fruit flies (Diptera, Tephritidae). *Proceedings of the Entomological Society of Washington* **51**(5): 181–205. [19 October 1949]
43. The African Dorilaidae (Pipunculidae-Diptera). *Mémoires de la Institute Royal des Sciences Naturelles de Belgique* (2) **36**: 1–80. [31 December 1949]
44. New Dorilaidae from the Belgian Congo. *Bulletin de la Institute Royal des Sciences Naturelles de Belgique* **25**(39): 1–10. [December 1949]

1950

- [] [Notes and exhibitions.] *Lasioderma serricornis* (F.). *Proceedings of the Hawaiian Entomological Society* **14**(1): 6. [30 March 1950]
- [] [Notes and exhibitions.] *Scholastes palmyra* Curran. *Proceedings of the Hawaiian Entomological Society* **14**(1): 6. [30 March 1950]
- [] [Notes and exhibitions.] *Eutreta xanthochaeta* Aldrich. *Proceedings of the Hawaiian Entomological Society* **14**(1): 8. [30 March 1950]
- [] [Notes and exhibitions.] *Aonidiella inornata* McKenzie. *Proceedings of the Hawaiian Entomological Society* **14**(1): 8. [30 March 1950]
- [] [Notes and exhibitions.] *Euxesta semifasciata* Malloch. *Proceedings of the Hawaiian Entomological Society* **14**(1): 9. [30 March 1950]
- [] [Notes and exhibitions.] *Scatopse fuscipes* Meigen. *Proceedings of the Hawaiian Entomological Society* **14**(1): 13. [30 March 1950]
- [] [Notes and exhibitions.] Bethylid in infested books. *Proceedings of the Hawaiian Entomological Society* **14**(1): 18. [30 March 1950]
- [] [Notes and exhibitions.] *Diarthronomyia chrysanthemi* Ahlberg. *Proceedings of the Hawaiian Entomological Society* **14**(1): 19. [30 March 1950]
- [] [Notes and exhibitions.] Toxic reaction to a spider bite. *Proceedings of the Hawaiian Entomological Society* **14**(1): 19. [30 March 1950]
45. *Homoneura* vs. *Sciomyza* in Hawaii (Diptera). *Proceedings of the Hawaiian Entomological Society* **14**(1): 73. [30 March 1950]
46. Studies in Pacific Bibionidae (Diptera). Part I. *Proceedings of the Hawaiian Entomological Society* **14**(1): 75–85. [30 March 1950]

47. A new *Dacus* from Australia (Diptera: Tephritidae). *Proceedings of the Hawaiian Entomological Society* **14**(1): 87–89. [30 March 1950]
50. The Nearctic *Nomoneura* and *Nemomydas* (Diptera: Mydaiidae). *Wasmann Journal of Biology* **8**(1): 9–37. [17 May 1950]
[Dated from *Wasmann Journal of Biology* 8(3): 382.]
48. Bibionidae (Diptera-Nematocera). *Exploration du Parc National Albert, Mission G.F. de Witte (1933–35)* **65**, 21 p. [14 July 1950]
[Dated from stamped receipt at BMNH.]
49. Dorilaidae, Diptera. *Exploration du Parc National Albert, Mission G.F. de Witte (1933–35)* **62**, 51 p. [2 October 1950]
[Dated from stamped receipt at BMNH.]
51. A monographic study of the African Bibionidae (Diptera). Part I: Introduction and genus *Bibio* Geoffroy. *Journal of the Kansas Entomological Society* **23**(4): 137–153. [9 October 1950]
52. Neotropical Dorilaidae studies. Part II. (Pipunculidae-Diptera). *Revista Entomologica* **21**(3): 433–448. [30 December 1950]

1951

- [] [Notes and exhibitions.] New spider records. *Proceedings of the Hawaiian Entomological Society* **14**(2): 207. [2 March 1951]
- [] [Notes and exhibitions.] Calliphorid flies in wool. *Proceedings of the Hawaiian Entomological Society* **14**(2): 208. [2 March 1951]
- [] [Notes and exhibitions.] *Brontispa chalybeipennis* (Zacher). *Proceedings of the Hawaiian Entomological Society* **14**(2): 208. [2 March 1951]
- [] [Notes and exhibitions.] Parasites of beet webworm. *Proceedings of the Hawaiian Entomological Society* **14**(2): 208. [2 March 1951]
- [] [Notes and exhibitions.] A case of apparent human myiasis. *Proceedings of the Hawaiian Entomological Society* **14**(2): 212. [2 March 1951]
- [] [Notes and exhibitions.] *Argiope appensa* Walckenaer. *Proceedings of the Hawaiian Entomological Society* **14**(2): 214. [2 March 1951]
- [] [Notes and exhibitions.] *Latrodectus geometricus* Koch. *Proceedings of the Hawaiian Entomological Society* **14**(2): 214. [2 March 1951]
- [] [Notes and exhibitions.] *Dacus (Strumeta) laticaudus* Hardy. *Proceedings of the Hawaiian Entomological Society* **14**(2): 218. [2 March 1951]
- [] [Notes and exhibitions.] *Agromyza simplex* Loew. *Proceedings of the Hawaiian Entomological Society* **14**(2): 227. [2 March 1951]
54. Studies in Pacific Bibionidae (Diptera). Part II: Genus *Philia* Meigen. *Proceedings of the Hawaiian Entomological Society* **14**(2): 257–275. [2 March 1951]
55. The Krauss Collection of Australian fruit flies (Tephritidae-Diptera). *Pacific Science* **5**(2): 115–189. [3 May 1951]
57. Proposal that the name “*Dorilas*” Meigen, 1800, should be retained and the name “*Pipunculus*” Latreille [1802–1803] (Class Insecta, Order Diptera) should be treated as a synonym. *Bulletin of Zoological Nomenclature* **2**(2): 144–145. [4 May 1951]
58. Proposed addition to the “Official List of Generic Names in Zoology” of the generic name “*Philia*” Meigen, 1800 (Class Insecta, Order Diptera). *Bulletin of Zoological Nomenclature* **2**(2): 153–154. [4 May 1951]
56. A monographic study of the African Bibionidae (Diptera). Part II: Genus *Philia* Meigen. *Journal of the Kansas Entomological Society* **24**(3): 74–94. [15 June 1951]
53. The Bibionidae (Diptera) of Madagascar. — Part II. *Mémoires de l’Institut Scientifique de Madagascar* (Série A) **5**(2): 323–331. [June 1951]

1952

61. A monographic study of the African Bibionidae (Diptera). Part III: Genus *Plecia*. *Journal of the Kansas Entomological Society* **25**(1/2): 72–91. [10 February 1952]
 [] [Notes and exhibitions.] *Phidippus audax* Hentz. *Proceedings of the Hawaiian Entomological Society* **14**(3): 345. [12 March 1952]
 [] [Notes and exhibitions.] *Chiracanthium* sp. *Proceedings of the Hawaiian Entomological Society* **14**(3): 345. [12 March 1952]
 [] [Notes and exhibitions.] *Argiope appensa* Walckenaer. *Proceedings of the Hawaiian Entomological Society* **14**(3): 346. [12 March 1952]
 [] [Notes and exhibitions.] Scale insects on *Araucaria*. *Proceedings of the Hawaiian Entomological Society* **14**(3): 346. [12 March 1952]
 [] [Notes and exhibitions.] *Homoneura unguiculata* (Kertész). *Proceedings of the Hawaiian Entomological Society* **14**(3): 346. [12 March 1952]
 [] [Notes and exhibitions.] *Scaptomyza graminum* Fallén. *Proceedings of the Hawaiian Entomological Society* **14**(3): 346. [12 March 1952]
 [] [Notes and exhibitions.] *Atherigona hendersoni* Malloch. *Proceedings of the Hawaiian Entomological Society* **14**(3): 346. [12 March 1952]
 [] [Notes and exhibitions.] New spider records. *Proceedings of the Hawaiian Entomological Society* **14**(3): 352. [12 March 1952]
 [] [Notes and exhibitions.] *Chiracanthium* sp. *Proceedings of the Hawaiian Entomological Society* **14**(3): 352. [12 March 1952]
 [] [Notes and exhibitions.] *Aphaniosoma* sp. *Proceedings of the Hawaiian Entomological Society* **14**(3): 355. [12 March 1952]
 [] [Notes and exhibitions.] Notes on Phoridae. *Proceedings of the Hawaiian Entomological Society* **14**(3): 355. [12 March 1952]
 [] [Notes and exhibitions.] *Lamprolonchaea aurea* (Macquart). *Proceedings of the Hawaiian Entomological Society* **14**(3): 363. [12 March 1952]
 [] [Notes and exhibitions.] *Ischiodon penicillatus* (Hull). *Proceedings of the Hawaiian Entomological Society* **14**(3): 363. [12 March 1952]
 [] [Notes and exhibitions.] Corrections [to my paper on the “Krauss Collection of Australian fruit flies”]. *Proceedings of the Hawaiian Entomological Society* **14**(3): 365. [12 March 1952]
 [] [Notes and exhibitions.] *Latrodectus geometricus* Koch. *Proceedings of the Hawaiian Entomological Society* **14**(3): 369. [12 March 1952]
59. Flies collected in bait traps. *Proceedings of the Hawaiian Entomological Society* **14**(3): 407–409. [12 March 1952]
60. Additions and corrections to Bryan’s check list of the Hawaiian Diptera. *Proceedings of the Hawaiian Entomological Society* **14**(3): 443–484-D. [12 March 1952]
63. Bibionidae and Dorilaidae in the collection of the Musée du Congo Belge. *Revue Zoologique et Botanique Africaine* **46**(1/2): 159–167. [22 August 1952]
 [The volume number “44” that appears on reprints and in the corner of the first page of the article is a typographical error. The actual volume number is 46.]
64. Dipteren von den Kleinen Sunda-Inseln aus der Ausbeute der Sunda-Expedition Rensch. V. Bibionidae. *Beiträge zur Entomologie* **2**(4/5): 425–434. [October 1952]
62. Bibionidae et Dorilaidae (Diptera). *Exploration du Parc National de l’Upemba. I. Mission G.F. de Witte (1947–1949)* **8**(5): 57–71. [19 November 1950]
 [Dated from stamped receipt at BMNH.]
65. Contribution à l’étude des diptères de l’Urundi. III. — Bibionidae et Dorilaidae. *Bulletin de l’Institut Royal des Sciences Naturelles de Belgique* **28**(55): 1–20. [November 1952]

1953

- [] [Notes and exhibitions.] Two new sepsid flies. *Proceedings of the Hawaiian Entomological Society* **15**(1): 7. [27 March 1953]
- [] [Notes and exhibitions.] *Cheiracanthium* sp. *Proceedings of the Hawaiian Entomological Society* **15**(1): 18. [27 March 1953]
- [] [Notes and exhibitions.] New name for carrot aphid. *Proceedings of the Hawaiian Entomological Society* **15**(1): 18. [27 March 1953]
66. New Hawaiian Tipulidae (Diptera). *Proceedings of the Hawaiian Entomological Society* **15**(1): 55–58. [27 March 1953]
67. Studies in Hawaiian Dorilaidae (Diptera). Part I. *Proceedings of the Hawaiian Entomological Society* **15**(1): 59–73. [27 March 1953]
68. Notes on the Shannon types of Dorilaidae from Argentina (Pipunculidae–Diptera). *Acta Zoologica Lilloana* **10**[1952]: 299–306. [March 1953]
[Date stamped on reprint.]
69. The Argentine «Bibionidae» (Diptera). *Acta Zoologica Lilloana* **12**[1951]: 343–376. [March 1953]
[Date stamped on reprint.]
71. The Bibionidae of New Zealand (Diptera). *Pacific Science* **8**(2): 147–204. [7 October 1953]
70. Studies in Oriental Bibionidae: new species of *Plecia* and *Penthetria* and a revision of the *Plecia impostor* complex. (Bibionidae: Diptera). *Records of the Indian Museum* **50**(1): 89–104. [22 December 1953]
[From colophon date.]

1954

73. The *Dacus* subgenera *Neodacus* and *Gymnodacus* of the world (Diptera, Tephritidae). *Proceedings of the Entomological Society of Washington* **56**(1): 5–23. [26 February 1954]
- [] [Notes and exhibitions.] *Tenodera australasiae* (Leach). *Proceedings of the Hawaiian Entomological Society* **15**(2): 278. [5 March 1954]
- [] [Notes and exhibitions.] Nitidulidae spp. *Proceedings of the Hawaiian Entomological Society* **15**(2): 278. [5 March 1954]
- [] [Notes and exhibitions.] *Neoexaireta spinigera* (Wiedemann). *Proceedings of the Hawaiian Entomological Society* **15**(2): 278. [5 March 1954]
- [] [Notes and exhibitions.] *Anthomyia bisetosa* Thomson. *Proceedings of the Hawaiian Entomological Society* **15**(2): 278. [5 March 1954]
- [] [Notes and exhibitions.] Unidentified woody galls. *Proceedings of the Hawaiian Entomological Society* **15**(2): 290. [5 March 1954]
- [] [Notes and exhibitions.] *Prostethochaeta fasciata* Grimshaw. *Proceedings of the Hawaiian Entomological Society* **15**(2): 290. [5 March 1954]
72. Notes and descriptions of Australian fruit flies (Diptera: Tephritidae). *Proceedings of the Hawaiian Entomological Society* **15**(2): 327–333. [5 March 1954]
74. Studies in the fruit flies of the Philippine Islands, Indonesia, and Malaya. Part I. Dacini (Tephritidae–Diptera). *Pacific Science* **8**(2): 147–204. [Co-authored: DEH & Adachi, M.S.] [30 April 1954]
77. Records of Bibionidae in the Musée Royal du Congo Belge, Tervuren. *Annales du Musée du Congo Belge* [4° Serie] (Zoologie) **1**: 378–380. [June 1954]
75. Studies in New World Dorilaidae (Pipunculidae–Diptera). *Journal of the Kansas Entomological Society* **27**(4): 121–127. [27 October 1954]
76. Neotropical Dorilaidae studies, Part III. Brazilian species and a key to the known species of *Dorilas sens. lat.* *Boletim do Museu Nacional (Zoologia)* **123**: 1–60. [17 September 1954]

1955

78. *Sphaeniscus* Becker and *Euphranta* Loew of the Oriental and Pacific regions (Tephritidae-Diptera). *Pacific Science* **9**(1): 77–84. [January 1955]
79. The *Dacus* (*Afrodacus*) Bezzi of the world (Tephritidae, Diptera). *Journal of the Kansas Entomological Society* **28**(1): 3–15. [25 January 1955]
80. Contributions a l'étude de la faune entomologique du Ruanda-Urundi (Mission P. Basilewsky 1953). XXVIII. Diptera, Bibionidae and Dorilaidae. *Annales du Musée du Congo Belge* [8° Serie] (Zoologie) **36**: 283–286. [March 1955]
- [] [Notes and exhibitions.] *Cheiracanthium diversum* Koch. *Proceedings of the Hawaiian Entomological Society* **15**(3): 374. [20 June 1955]

1956

81. A reclassification of the Dacini (Tephritidae-Diptera). *Annals of the Entomological Society of America* **48**(6): 425–437. [12 January 1956]
82. Diptera: Dorilaidae (Pipunculidae). *Insects of Micronesia* **13**(1): 1–9. [14 February 1956]
83. Diptera: Tephritidae. *Insects of Micronesia* **14**(1): 1–28. [Co-authored: DEH & Adachi, M.S.] [17 February 1956]
- [] [Notes and exhibitions.] *Aphis fabae* Scopoli. *Proceedings of the Hawaiian Entomological Society* **16**(1): 5. [16 July 1956]
- [] [Notes and exhibitions.] *Nysius nigriscutellatus* Usinger. *Proceedings of the Hawaiian Entomological Society* **16**(1): 6. [16 July 1956]
- [] [Notes and exhibitions.] *Centruroides gracilis* (Latreille). *Proceedings of the Hawaiian Entomological Society* **16**(1): 6. [16 July 1956]
- [] [Notes and exhibitions.] *Melanagromyza splendida* Frick. *Proceedings of the Hawaiian Entomological Society* **16**(1): 9. [16 July 1956]
- [] [Notes and exhibitions.] *Ceratoxys latiuscula* (Loew). *Proceedings of the Hawaiian Entomological Society* **16**(1): 11. [16 July 1956]
- [] [Notes and exhibitions.] *Araecerus levipennis* Jordan. *Proceedings of the Hawaiian Entomological Society* **16**(1): 11. [16 July 1956]
- [] [Notes and exhibitions.] *Oestrus ovis* (L.). *Proceedings of the Hawaiian Entomological Society* **16**(1): 13–14. [16 July 1956]
- [] [Notes and exhibitions.] *Dettopsomyia nigrovittata* (Malloch). *Proceedings of the Hawaiian Entomological Society* **16**(1): 17. [16 July 1956]
85. New Hawaiian Sciaridae (Diptera). *Proceedings of the Hawaiian Entomological Society* **16**(1): 72–90. [16 July 1956]
86. Date of publication of volume 8, number 1, of the *Queensland Journal of Agricultural Science*. *Proceedings of the Hawaiian Entomological Society* **16**(1): 70–71. [16 July 1956]
84. The Walker types of Bibionidae (Diptera). *Journal of the Kansas Entomological Society* **29**(3): 85–91. [31 July 1956]
87. Proposed acceptance of “*Lestodiplosis*” as the valid original spelling for the generic name spelled both in this way and as “*Leptodiplosis*” by Kieffer in 1894 (Class Insecta, Order Diptera). *Bulletin of Zoological Nomenclature* **12**(6): 176–177. [24 August 1956]
88. Proposed use of the plenary powers to validate the generic name “*Campsicnemus*” Haliday, 1851 (Class Insecta, Order Diptera). *Bulletin of Zoological Nomenclature* **12**(6): 178–180. [24 August 1956]
89. Dorilaidae (Pipunculidae) from the Commonwealth Institute of Entomology. *Proceedings of the Royal Entomological Society of London* (B) **25**(9/10): 180–182. [19 October 1956]

1957

91. Diptera: Bibionidae and Scatopsidae. *Insects of Micronesia* **12**(2): 87–102. [20 January 1957]
90. Diptera: Coelopidae. *Insects of Micronesia* **14**(2): 41–46. [21 January 1957]
93. New Neotropical Bibionidae in the Naturhistorisches Museum, Vienna. *Annalen des Naturhistorisches Museum in Wien* **61**: 238–240. [April 1957]
- [] [Notes and exhibitions.] *Gasteracantha cancriformis* (L.). *Proceedings of the Hawaiian Entomological Society* **16**(2): 187. [13 May 1957]
- [] [Notes and exhibitions.] *Cheiracanthium diversum* Koch. *Proceedings of the Hawaiian Entomological Society* **16**(2): 187. [13 May 1957]
- [] [Notes and exhibitions.] *Phytobia maculosa* (Malloch). *Proceedings of the Hawaiian Entomological Society* **16**(2): 188. [13 May 1957]
- [] [Notes and exhibitions.] *Mycophila fungicola* Felt. *Proceedings of the Hawaiian Entomological Society* **16**(2): 189. [13 May 1957]
- [] [Notes and exhibitions.] *Arthrocnodax walkeriana* Felt. *Proceedings of the Hawaiian Entomological Society* **16**(2): 189. [13 May 1957]
- [] [Notes and exhibitions.] *Lestremia cinerea* Macquart; *Lestremia leucophaea* (Meigen). *Proceedings of the Hawaiian Entomological Society* **16**(2): 189. [13 May 1957]
- [] [Notes and exhibitions.] *Anachaetopsis tortricis* (Coquillett). *Proceedings of the Hawaiian Entomological Society* **16**(2): 195. [13 May 1957]
- [] [Notes and exhibitions.] *Macrosiphum granarum* (Kirby). *Proceedings of the Hawaiian Entomological Society* **16**(2): 197. [13 May 1957]
92. *Austromyia neglecta* Hardy, a new synonym of *Neotoxura discoidalis* (Bezzi) (Diptera: Pyrgotidae), with a discussion of some family relationships. *Proceedings of the Hawaiian Entomological Society* **16**(2): 259–260. [13 May 1957]

1958

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[] [Notes and exhibitions.] *Scadra* sp. *Proceedings of the Hawaiian Entomological Society* **17**(1): 27. [31 August 1959]
[] [Notes and exhibitions.] *Macrosiphum pisi* (Harris). *Proceedings of the Hawaiian Entomological Society* **17**(1): 28. [31 August 1959]
101. A review of the genus *Pseudiasata* Coquillett (Drosophilidae, Diptera). *Proceedings of the Hawaiian Entomological Society* **17**(1): 76–82. [31 August 1959]
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105. A new Bibionidae from California (Diptera). *Pan-Pacific Entomologist* **35**(4): 209–211. [8 December 1959]

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108. Diptera: Nematocera — Brachycera (except Dolichopodidae). *Insects of Hawaii* **10**, vii + 368 p. [31 March 1960]
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109. *Paracoxenus*, new genus, with notes on *Cacoxenus indagator* Loew (Diptera: Drosophilidae). *Annals of the Entomological Society of America* **53**(3): 356–359. [Co-authored: DEH & Wheeler, M.] [31 May 1960]
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[] [Notes and exhibitions.] A styloped fruit fly. *Proceedings of the Hawaiian Entomological Society* **17**(2): 163. [2 August 1960]
[] [Notes and exhibitions.] *Macrosiphum ibarae* Matsumura. *Proceedings of the Hawaiian Entomological Society* **17**(2): 163. [2 August 1960]
[] [Notes and exhibitions.] *Gasteracantha cancriformis* (L.). *Proceedings of the Hawaiian Entomological Society* **17**(2): 166. [2 August 1960]

- [] [Notes and exhibitions.] *Melanagromyza splendida* Frick. *Proceedings of the Hawaiian Entomological Society* **17**(2): 168. [2 August 1960]
- [] [Notes and exhibitions.] *Orthezia insignis* Browne. *Proceedings of the Hawaiian Entomological Society* **17**(2): 168. [2 August 1960]
- [] [Notes and exhibitions.] *Macrosiphum pisi* (Harris). *Proceedings of the Hawaiian Entomological Society* **17**(2): 168. [2 August 1960]
- [] [Notes and exhibitions.] *Hypoderma bovis* (L.). *Proceedings of the Hawaiian Entomological Society* **17**(2): 169. [2 August 1960]
- [] [Notes and exhibitions.] *Cryptophlebia illepida* (Butler). *Proceedings of the Hawaiian Entomological Society* **17**(2): 169. [2 August 1960]
- [] [Notes and exhibitions.] New Hawaiian *Scaptomyza*. *Proceedings of the Hawaiian Entomological Society* **17**(2): 171–172. [2 August 1960]
- [] [Notes and exhibitions.] *Homoneura striatifrons* (de Meijere). *Proceedings of the Hawaiian Entomological Society* **17**(2): 174. [2 August 1960]
- [] [Notes and exhibitions.] *Macrosiphum pisi* (Harris). *Proceedings of the Hawaiian Entomological Society* **17**(2): 174. [2 August 1960]
- [] [Notes and exhibitions.] *Grassiella* sp. *Proceedings of the Hawaiian Entomological Society* **17**(2): 180. [2 August 1960]
- 110.** A new *Bibio* from the Sierra Mountains, California, and a new *Plecia* from Malaya (Diptera: Bibionidae). *Proceedings of the Hawaiian Entomological Society* **17**(2): 255–259. [2 August 1960]
- 112.** An unusual new Nematocera from Japan (Diptera), and a new family name. *Pacific Insects* **2**(3): 263–267. [Co-authored: DEH & **Nagatomi, A.**] [10 October 1960]
- 111.** Revision of the Japanese Bibionidae (Diptera, Nematocera). *Pacific Insects* **2**(4): 383–449. [Co-authored: DEH & **Takahashi, M.**] [20 December 1960]

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- [] Fruit flies of known or potential economic importance in the Pacific Region. *Abstracts of the 10th Pacific Science Congress* (Honolulu) **1961**: 207. [21 August 1961]
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- [] [Notes and exhibitions.] *Corythuca morrilli* Osborn and Drake. *Proceedings of the Hawaiian Entomological Society* **17**(3): 313. [30 August 1961]
- [] [Notes and exhibitions.] Hawaiian Lepidoptera names. *Proceedings of the Hawaiian Entomological Society* **17**(3): 318. [30 August 1961]
- [] [Notes and exhibitions.] Human myiasis. *Proceedings of the Hawaiian Entomological Society* **17**(3): 319. [30 August 1961]
- 115.** Bibionidae (Diptera Nematocera) and Dorilaidae (Pipunculidae: Diptera-Cyclorrhapha). *Exploration du Parc National Garamba, Mission H. de Saeger* **24**(3): 111–180 [31 October 1961]
- 116.** The Bibionidae of California. *Bulletin of the California Insect Survey* **6**(7): 179–195. [23 December 1961]
- 117.** The Diptera of Hawaii. *Verhandlungen der XI. Internationaler Kongress für Entomologie* (Wien) **1**: 167–168. [December 1961]
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118. New insect pests in Hawaii. *Hawaii Farm Science* **11**(2): 6–9. [April 1962]
119. The Bibionidae (Diptera) of Madagascar part III. *Verhandlungen der Naturforschende Gesellschaft in Basel* **73**(1): 149–170. [20 July 1962]
120. Notes and descriptions of Pipunculidae from the Natal Museum, South Africa. *Annals of the Natal Museum* **15**(2): 255–266. [August 1962]
- [] [Notes and exhibitions.] *Scadra rufidens* Stål. *Proceedings of the Hawaiian Entomological Society* **18**(1): 16. [24 August 1962]
- [] [Notes and exhibitions.] *Chiracanthium diversum* Koch. *Proceedings of the Hawaiian Entomological Society* **18**(1): 16. [24 August 1962]
124. Studies in Pipunculidae of Colombia. *Proceedings of the Hawaiian Entomological Society* **18**(1): 259–266. [24 August 1962]
123. A remarkable new bibionid fly from Australia (Diptera: Bibionidae). *Pacific Insects* **4**(4): 783–785. [15 December 1962]
121. Insects of Macquarie Island. Diptera: Coelopidae. *Pacific Insects* **4**(4): 963–971. [15 December 1962]
122. Preliminary studies of Pipunculidae of Madagascar (Diptera). *Verhandlungen der Naturforschende Gesellschaft in Basel* **73**(2): 241–269. [31 December 1962]

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- [] [Notes and exhibitions.] *Nezara viridula smaragdula* (Fabricius). *Proceedings of the Hawaiian Entomological Society* **18**(2): 196. [29 July 1963]
- [] [Notes and exhibitions.] *Volucella tamaulipana* Townsend. *Proceedings of the Hawaiian Entomological Society* **18**(2): 201. [29 July 1963]
- [] [Notes and exhibitions.] *Nezara viridula smaragdula* (Fabricius). *Proceedings of the Hawaiian Entomological Society* **18**(2): 201. [29 July 1963]
- [] [Notes and exhibitions.] *Oligotoma (Aposthonia) oceania* Ross. *Proceedings of the Hawaiian Entomological Society* **18**(2): 203. [29 July 1963]
- [] [Notes and exhibitions.] *Scadra rufidens* Stål. *Proceedings of the Hawaiian Entomological Society* **18**(2): 208. [29 July 1963]
- [] [Notes and exhibitions.] *Hippelates collusor* (Townsend). *Proceedings of the Hawaiian Entomological Society* **18**(2): 210–211. [29 July 1963]

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126. A re-study of Perkins types of Australian Pipunculidae (Diptera) and the type of *Pipunculus vitiensis* Muir from Fiji. *Australian Journal of Zoology* **12**(1): 84–125. [April 1964]
125. Diptera: Brachycera, family Dolichopodidae. Cyclorrhapha, series Aschiza. Families Lonchopteridae, Phoridae, Pipunculidae, and Syrphidae. *Insects of Hawaii* **11**, vii + 458 p. [30 April 1964]
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125. Dolichopodidae. *Insects of Hawaii* **11**: 12–296. [Co-authored: DEH & **Kohn, M.A.**] [30 April 1964]
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[Dated from information supplied by the publisher.]

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- [] [Notes and exhibitions.] *Tefflus zanzibaricus alluaudi* Sternberg. *Proceedings of the Hawaiian Entomological Society* **18**(3): 337. [30 June 1964]
- [] [Notes and exhibitions.] *Mezira membranacea* (Fabricius). *Proceedings of the Hawaiian Entomological Society* **18**(3): 338. [30 June 1964]
- [] [Notes and exhibitions.] *Amblyomma cyprium cyprium* Neumann. *Proceedings of the Hawaiian Entomological Society* **18**(3): 345. [30 June 1964]
127. Diptera from Nepal. The fruit flies (Diptera, Tephritidae). *Bulletin of the British Museum (Natural History)* (Entomology) **15**(6): 154–169. [27 July 1964]

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128. The Pipunculidae of Argentina. *Acta Zoologica Lilloana* **19**[1963]: 187–241. [January 1965]
[Dated from stamped date on reprint.]
129. Diptera from Nepal. Bibionidae. *Bulletin of the British Museum (Natural History)* (Entomology) **16**(1): 3–23. [3 June 1965]
- [] [Notes and exhibitions.] *Mumetopia nigrimana* (Coquillett). *Proceedings of the Hawaiian Entomological Society* **19**(1): 7. [25 June 1965]
- [] [Notes and exhibitions.] *Donaceus nigronotatus* Cresson. *Proceedings of the Hawaiian Entomological Society* **19**(1): 19. [25 June 1965]
- [] [Notes and exhibitions.] *Telmatogeton abnormis* (Terry). *Proceedings of the Hawaiian Entomological Society* **19**(1): 19. [25 June 1965]
- [] [Notes and exhibitions.] *Oscinella* sp. *Proceedings of the Hawaiian Entomological Society* **19**(1): 19. [25 June 1965]
- [] [Notes and exhibitions.] Predation on native *Drosophila* larvae. *Proceedings of the Hawaiian Entomological Society* **19**(1): 34. [25 June 1965]
130. Neotropical Pipunculidae (Diptera) studies, part IV. Further studies of Brazilian species. *Arquivos de Zoologia* **14**(1): 1–67. [25 July 1965]
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[Dated from Sabrosky, C.W., 1967, *Bulletin of the Entomological Society of America* 13: 115.]
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[Dated from Sabrosky, C.W., 1967, *Bulletin of the Entomological Society of America* 13: 115.]
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132. Evolution and genetics of Hawaiian Drosophilidae. *Proceedings of the XII International Congress of Entomology* (London) **1965**: 119. [31 December 1965+]

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135. Diptera from Nepal. Pipunculidae (Dorilaidae). *Bulletin of the British Museum (Natural History)* (Entomology) **17**(10): 439–449. [15 March 1966]
136. Family Bibionidae. *Catalog of the Diptera of the Americas South of the United States* **18**: 1–20. [20 May 1966]
137. Family Pipunculidae. *Catalog of the Diptera of the Americas South of the United States* **45**: 1–15. [20 May 1966]
138. Family Scenopinidae. *Catalog of the Diptera of the Americas South of the United States* **32**: 1–5. [20 May 1966]
139. The Walker types of fruit flies (Diptera: Tephritidae) in the British Museum. Part III. *Journal of the Kansas Entomological Society* **39**(4): 658–668. [2 December 1966]

1967

140. Redescription of *Tomosvaryella frontata* (Becker) (Diptera: Pipunculidae). *Annals of the Entomological Society of America* **60**(1): 116–118. [16 January 1967]
- [] [Notes and exhibitions.] *Culex pipiens quinquefasciatus* Say. *Proceedings of the Hawaiian Entomological Society* **19**(2)[1966]: 123. [31 January 1967]
- [] [Notes and exhibitions.] *Phorocantha semipunctata* Fabricius, new to the state. *Proceedings of the Hawaiian Entomological Society* **19**(2)[1966]: 123. [31 January 1967]
- [] [Notes and exhibitions.] *Conicera (Tritoconicera) hawaiiensis* Colyer (Phoridae) a new record for island of Hawaii. *Proceedings of the Hawaiian Entomological Society* **19**(2)[1966]: 128. [31 January 1967]
- [] [Notes and exhibitions.] *Culex pipiens quinquefasciatus* Say. *Proceedings of the Hawaiian Entomological Society* **19**(2)[1966]: 139. [31 January 1967]
141. VIII. Descriptions and notes on Hawaiian Drosophilidae (Diptera). *University of Texas Studies* **66**15[1966]: 195–244. [February 1967]
[The printed year of publication has “1 August 1966”, but a handwritten note by the author on a reprint states that the actual publication date was “February 1967”.]
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143. 109. Bibionidae. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Diptera). *Reichenbachia* **9**(22): 191–200. [20 September 1967]
145. The types of Bibionidae (Diptera) in the Naturhistorisches Museum, Wien. *Annalen des Naturhistorisches Museum in Wien* **70**: 169–181. [October 1967]
144. Studies of fruitflies associated with mistletoe in Australia and Pakistan with notes and descriptions on genera related to *Perilampus* Bezzi. Diptera: Tephritidae. *Beiträge zur Entomologie* **17**(1/2): 127–149. [29 December 1967]
[Date received at the library of the Museum für Naturkunde, Humboldt-Universität, Berlin (M. Ohl, pers. comm.).]

1968

- [] [Notes and exhibitions.] *Loewimyia*, n. sp. *Proceedings of the Hawaiian Entomological Society* **19**(3)[1967]: 323. [13 March 1968]
- [] [Notes and exhibitions.] *Loewimyia* n. sp. *Proceedings of the Hawaiian Entomological Society* **19**(3)[1967]: 326. [13 March 1968]
- [] [Notes and exhibitions.] *Bryania bipunctata* Aldrich. *Proceedings of the Hawaiian Entomological Society* **19**(3)[1967]: 326. [13 March 1968]
- [] [Notes and exhibitions.] *Acinia picturata* (Snow) (Diptera: Tephritidae). *Proceedings of the Hawaiian Entomological Society* **19**(3)[1967]: 326. [13 March 1968]
- [] [Notes and exhibitions.] *Oscinella formosa* Becker (Diptera: Chloropidae). *Proceedings of the Hawaiian Entomological Society* **19**(3)[1967]: 326. [13 March 1968]

- [] [Notes and exhibitions.] *Paroxyna sororcula* (Wiedemann), [1830, Ausseureur. Sweifl. Ins. 2: 509. (Tephritidae: Diptera)]. *Proceedings of the Hawaiian Entomological Society* **19**(3)[1967]: 333. [13 March 1968]
- 146.** New picture-winged *Drosophila* from Hawaii. *University of Texas Publications* **6818**: 171–262 [Co-authored: DEH & **Kaneshiro, K.Y.**] [15 September 1968]
- 148.** Bibionidae and Pipunculidae of the Philippines and Bismarck Islands (Diptera). *Entomologische Meddelelser* **36**: 417–507. [20 November 1968]
[= Noona Dan Papers No. 67.]
- 147.** Bibionidae (Diptera) of New Guinea. *Pacific Insects* **10**(3/4): 443–513. [25 December 1968]
- 149.** The fruit fly types in the Naturhistorisches Museum, Wien (Tephritidae-Diptera). *Annalen des Naturhistorisches Museum in Wien* **72**: 107–155. [November 1968]

1969

- 150.** The Bibionidae (Diptera) of the Philippines. *Pacific Insects* **11**(1): 117–154. [Co-authored: DEH & **Delfinado, M.D.**] [4 March 1969]
[The printed publication date is 20 February 1969, but the actual publication is 4 March 1969 based on information from the publisher.]
- [] [Notes and exhibitions.] *Euxesta quadrivittata* (Macq.) and *Euxesta wettsteini* Hendel. *Proceedings of the Hawaiian Entomological Society* **20**(1)[1968]: 323. [11 March 1969]
- 152.** IV. Descriptions of new Hawaiian *Drosophila*. *University of Texas Publication* **6918**: 39–54. [Co-authored: DEH & **Kaneshiro, K.Y.**] [15 September 1969]
- 153.** VI. Notes on Hawaiian “*idiomyia*” (*Drosophila*). *University of Texas Publication* **6918**: 71–77. [15 September 1969]
- 151.** Lectotype designations for fruit flies (Diptera: Tephritidae). *Pacific Insects* **11**(2): 477–481. [6 October 1969]
[The printed publication date is 30 August 1969, but the actual publication is 6 October 1969 based on information from the publisher.]

1970

- [] [Notes and exhibitions.] *Culex pipiens quinquefasciatus* Say. *Proceedings of the Hawaiian Entomological Society* **20**(2)[1969]: 323. [4 February 1970]
- 154.** Taxonomy and distribution of the Oriental fruit fly and related species (Tephritidae-Diptera). *Proceedings of the Hawaiian Entomological Society* **20**(2)[1969]: 395–428. [4 February 1970]
- 155.** Myiasis of new-born calves in Hawaii. *Proceedings of the Hawaiian Entomological Society* **20**(2)[1969]: 435–438. [Co-authored: **Shishido, W.H.** & DEH] [4 February 1970]
- 156.** [Note.] Die Lonchaeidae und Pallopteridae Österreichs und der angrenzenden Gebeite. II: Die Pallopteridae by G. Morge. *Entomological News* **80**(12)[1969]: 322. [20 February 1970]
[Dated from the January 1970 issue.]
- 158.** Tephritidae (Diptera) collected by the Noona Dan Expedition in the Philippines and Bismarck Islands [part]. *Entomologische Meddelelser* **38**(1): 71–96. [15 June 1970]
[= Noona Dan Papers No. 95.]
- 157.** The evolutionary biology of the Hawaiian Drosophilidae, p. 437–543. In: Hecht, M.K. & W.C. Steere (eds.), *Essays in evolution and genetics in honor of Theodosius Dobzhansky, a supplement to Evolutionary Biology*. Appleton-Century-Crofts, New York. xv + 594 p. [Co-authored: **Carson, H.L.**, DEH, **Speith, H.T.** and **Stone, W.S.**] [June 1970]
[Dated from information supplied by the publisher.]

158. Tephritidae (Diptera) collected by the Noona Dan Expedition in the Philippines and Bismarck Islands [concl.]. *Entomologiske Meddelelser* **38**(2): 97–136. [30 September 1970]
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1971

- [] [Notes and exhibitions.] *Goeldichironomus holoprasinus* (Goeldi). *Proceedings of the Hawaiian Entomological Society* **20**(3)[1970]: 487–488. [28 January 1971]
[] [Notes and exhibitions.] *Iridomyrmex humilis* (Mayr). *Proceedings of the Hawaiian Entomological Society* **20**(3)[1970]: 488. [28 January 1971]
[] [Notes and exhibitions.] *Sepedon sauteri* Hendel. *Proceedings of the Hawaiian Entomological Society* **20**(3)[1970]: 502. [28 January 1971]
[] [Notes and exhibitions.] *Lonchaea polita* Say and *L. striatifrons* Malloch. *Proceedings of the Hawaiian Entomological Society* **20**(3)[1970]: 502. [28 January 1971]
[] [Notes and exhibitions.] *Lamprolonchaea metatarsata* Kertész. *Proceedings of the Hawaiian Entomological Society* **20**(3)[1970]: 502–503. [28 January 1971]
159. VII. New picture-winged *Drosophila* from Hawaii, part II. (Drosophilidae, Diptera). *University of Texas Publications* **7103**: 151–170. [Co-authored: DEH & **Kaneshiro, K.Y.**] [1 February 1971]
160. Type specimens of Philippine Diptera. *Notulae Entomologicae* **51**: 15–32. [Co-authored: **Delfinado, M.D.** & DEH] [31 March 1971]
161. A new *Plecia* (Diptera: Bibionidae) from Mexican amber. *University of California Publications in Entomology* **63**: 65–67. [16 July 1971]
162. Diptera: Bibionidae from Ceylon. *Entomologica Scandinavica Supplement* **1**: 286. [10 November 1971]
163. Diptera: Tephritidae from Ceylon. *Entomologica Scandinavica Supplement* **1**: 287–292. [10 November 1971]
165. Evolution of the Hawaiian Drosophilidae (Insecta: Diptera), p. 147–148. *In: Symposium on Indian Ocean and Adjacent Seas, their origin, science and resources*. Cochin, India, 1971. Marine Biological Association of India, Cochin. [31 December 1971+]

1972

- [] [Notes and exhibitions.] *Phormia regina* (Meigen). *Proceedings of the Hawaiian Entomological Society* **21**(1)[1971]: 2. [February 1972]
[] [Notes and exhibitions.] *Phaenicia sericata* (Meigen) or *cuprina* (Wied.). *Proceedings of the Hawaiian Entomological Society* **21**(1)[1971]: 2. [February 1972]
[] [Notes and exhibitions.] *Chrysomyia megacephala* (Fab.). *Proceedings of the Hawaiian Entomological Society* **21**(1)[1971]: 2. [February 1972]
[] [Notes and exhibitions.] *Chlorichaeta albipennis* (Loew). *Proceedings of the Hawaiian Entomological Society* **21**(1)[1971]: 6. [February 1972]
[] [Notes and exhibitions.] *Dacus tryoni* (Froggatt). *Proceedings of the Hawaiian Entomological Society* **21**(1)[1971]: 10. [February 1972]
164. Pipunculidae (Diptera) parasitic on rice leafhoppers in the Oriental Region. *Proceedings of the Hawaiian Entomological Society* **21**(1)[1971]: 79–91. [February 1972]
167. Studies on Pipunculidae (Diptera) of the Oriental Region, Part I. *Oriental Insects Supplement* **2**: 1–76. [February 1972]
166. Pipunculidae (Diptera) of the 1934 Swedish Expedition to Burma. *Zoologica Scripta* **1**: 121–138. [26 June 1972]
168. V. New picture-winged *Drosophila* from Hawaii, part III (Drosophilidae, Diptera). *University of Texas Publications* **7213**: 155–161. [Co-authored: DEH & **Kaneshiro, K.Y.**] [1 July 1972]

1973

- [] [Notes and exhibitions.] *Leucopis nigricornis* Egger. *Proceedings of the Hawaiian Entomological Society* **21**(2)[1972]: 151. [8 February 1973]
- [] [Notes and exhibitions.] *Leucopis ocellaris* Malloch. *Proceedings of the Hawaiian Entomological Society* **21**(2)[1972]: 151. [8 February 1973]
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- [] [Notes & exhibitions.] New snail parasitoid in Hawaii. *Hawaiian Entomological Society Newsletter* 2(2): 3. [June 1992]

1993

232. Book review: Fruit flies of economic significance. Their identification and bionomics. By I.M. White & M. Elson-Harris. 601 pp. *Environmental Entomology* 22(1): 1408. [February 1993]
- [] [Notes and exhibitions.] Nomenclatural changes for Pacific Tephritidae (Diptera). *Proceedings of the Hawaiian Entomological Society* 31[1992]: 1–2. [15 March 1993]
- [] [Notes and exhibitions.] *Taeniaptera angulata* (Loew) (Diptera: Micropezidae). *Proceedings of the Hawaiian Entomological Society* 31[1992]: 5. [15 March 1993]
- [] [Notes and exhibitions.] Names changes for Hawaiian Diptera. *Proceedings of the Hawaiian Entomological Society* 31[1992]: 8. [15 March 1993]
- [] [Notes & exhibitions.] New records of Diptera for Hawaii. *Hawaiian Entomological Society Newsletter* 3(1): 2. [27 August 1993]

1995

- [] [Notes and exhibitions.] *Trentepohlia (Mongoma) australasiae* (Diptera: Tipulidae). *Proceedings of the Hawaiian Entomological Society* 32: 2. [10 August 1995]
- [] [Notes and exhibitions.] New records of Diptera for the Hawaiian Islands. *Proceedings of the Hawaiian Entomological Society* 32: 5–6. [10 August 1995]
- [] [Notes and exhibitions.] *Johnsonia elegans* Coquillett (Diptera: Sarcophagidae). *Proceedings of the Hawaiian Entomological Society* 32: 6. [10 August 1995]
- [] [Notes and exhibitions.] *Hippelates proboscideus* Williston (Diptera: Chloropidae). *Proceedings of the Hawaiian Entomological Society* 32: 8. [10 August 1995]
- [] [Notes and exhibitions.] *Poecilominettia sexseriata* Hendel (Diptera: Lauxaniidae). *Proceedings of the Hawaiian Entomological Society* 32: 8. [10 August 1995]

1996

233. Revision of the Australian Tephritini (Diptera: Tephritidae). *Invertebrate Taxonomy* 10(2): 213–405. [Co-Authored: DEH & **Drew, R.A.I.**] [4 April 1996]

2001

234. Review of the *haleakalae* species group of Hawaiian *Drosophila* (Diptera: Drosophilidae). *Bishop Museum Bulletin in Entomology* 9, viii + 88 p. [Co-authored: DEH, **Kaneshiro, K.Y.**, **Val, F.C.** & **O’Grady, P.M.**] [10 October 2001]
[Dated from information supplied by the publisher. Authorship of new species in this paper is “Hardy & Kaneshiro”.]
235. The *rustica* species group of Hawaiian *Drosophila* (Diptera: Drosophilidae). *Pan-Pacific Entomologist* 77(4): 254–260. [Co-authored: **O’Grady, P.M.**, **Val, F.C.** DEH & **Kaneshiro, K.Y.**] [7 December 2001]
[Authorship of new species in this paper is “Hardy & Kaneshiro”.]

Undated

- [] Errata [to Hardy, 1943, *Kansas University Science Bulletin* 29(1): 1-231.] [Unnumbered page]
[No date or source for this errata is currently known. But based on Hardy’s position title at the University of Hawaii in the credit line and the format and style it is presumed that it dates from between 1948 and 1951 and that it was issued by the *Kansas University Science Bulletin.*]

List of Taxa described by D. Elmo Hardy (1936–2001)

The following lists all the new taxa proposed by Hardy as well as replacement names he proposed. For each name, the name (original genus and epithet for species), author, year and page is given, and, if the status of the name has changed, the valid name or epithet is given in brackets at the end.

FAMILY-GROUP NAMES -- total 3**Canthylosceldidae** -1

Hyperoscelidae Hardy & Nagatomi, 1960: 263 [= Canthylosceldidae]

Pipunculidae -1

Tomosvaryellinae Hardy, 1943: 25

Xenasteiidae -1

Xenasteiidae Hardy, 1980: 205

GENUS-GROUP NAMES -- total 107**Asilidae** -1

Bromleyus Hardy, 1944: 226

Bibionidae -3

Enicoscolus Hardy, 1961: 81

Heteroplecia Hardy, 1950: 75 [= Plecia, subgenus]

Pleciodes Hardy, 1952: 76 [= Plecia, subgenus]

Canthylosceldidae -1

Hyperoscelis Hardy & Nagatomi, 1960: 263

Cecidomyiidae -1

Heterocontarinia Hardy, 1960: 271

Drosophilidae -8

Antopocerus Hardy, 1965: 42 [= Drosophila]

Ateledrosophila Hardy, 1965: 62 [= Drosophila]

Celidosoma Hardy, 1965: 66

Exalloscaptopmyza Hardy, 1965: 604 [= Scaptomyza, subgenus]

Grimshawomyia Hardy, 1965: 535

Nudidrosophila Hardy, 1965: 564 [= Drosophila]

Paracacoxenus Hardy, 1960: 358

Trichotobregma Hardy, 1965: 532 [= Drosophila]

Keroplatidae -1

Trigemma Hardy, 1960: 201

Mydidae -1

Heteromydas Hardy, 1944: 227

Pipunculidae -3

Allomethus Hardy, 1943: 128

Congomyia Hardy, 1949: 7

Wittella Hardy, 1950: 41 [= Cephalops]

Pyrgotidae -1

Austromyia Hardy, 1954: 327 [= Neotoxura]

Scenopinidae -1

Belosta Hardy, 1944: 37

Brevitrichia Hardy, 1944: 32

Tephritidae -78

Acinoeuphranta Hardy, 1971: 288

Aciuroopsis Hardy, 1974: 96

Adramoides Hardy, 1973: 128

Alincocallistomyia Hardy, 1986: 28

Alloeomyia Hardy, 1986: 29

Anchiacanthonevra Hardy, 1986: 31

Antisophira Hardy, 1974: 103

Brandtomyia Hardy, 1987: 68

Buloloa Hardy, 1986: 32

Collessomyia Hardy & Drew, 1996: 231

Cooronga Hardy & Drew, 1996: 233

Craspedoxanthitea Hardy, 1987: 285

Crinitisophira Hardy, 1987: 69

Curticella Hardy, 1959: 209

Curvinervus Hardy, 1959: 203 [= Stymbara]

Dietheria Hardy, 1973: 183

Ectopomyia Hardy, 1973: 101

Elleipsa Hardy, 1970: 90 [= Plestometopon]

Emheringia Hardy, 1989: 512

Epacrocercus Hardy, 1982: 79

Exallosophira Hardy, 1980: 149

Freyomyia Hardy, 1974: 67

Galbifascia Hardy, 1973: 247

Gressittidium Hardy, 1986: 64

Griphomyia Hardy, 1987: 290

Hemiclusiosoma Hardy, 1986: 66

Hemigymnodacus Hardy, 1973: 19 [= Bactrocera (Paratri-dacus)]

Hemizeugodacus Hardy, 1951: 131 [= Bactrocera, subgenus]

Hendelina Hardy, 1951: 179

Heringomyia Hardy, 1968: 131

Heringomyia Hardy, 1986: 67 [= Emheringia]

Heterodaculus Hardy, 1951: 134 [= Bactrocera, subgenus]

Heterosophira Hardy, 1973: 130 [= Sophira]

Homiothemara Hardy, 1988: 101

Hyalopeza Hardy & Drew, 1996: 253

Hyponeothemara Hardy, 1986: 71 [= Hexaresta]

Ichneumonopsis Hardy, 1973: 132

Javadacus Hardy, 1983: 26

Lalokia Hardy, 1987: 309

Liepana Hardy & Drew, 1996: 256

Mimoeuphranta Hardy, 1986: 79

Mimosophira Hardy, 1973: 106

Nothoclusiosoma Hardy, 1986: 85

Othniocera Hardy, 1986: 87

Paedohexacinia Hardy, 1986: 92

Paraactinoptera Hardy & Drew, 1996: 299

Paracanthonevra Hardy, 1974: 73

Paraceratitella Hardy, 1967: 138

Paraclusiosoma Hardy, 1986: 52 [= Clusiosoma, subgenus]

Paracristobalia Hardy, 1987: 345

Paraeuphranta Hardy, 1959: 173

Parahyalopeza Hardy & Drew, 1996: 303

Paraphasca Hardy, 1986: 94

Pararhabdochaeta Hardy, 1985: 61

Parasophira Hardy, 1980: 145

Paraspathulina Hardy & Drew, 1996: 304

Paraxarnuta Hardy, 1973: 195

- Peneparoxyna Hardy & Drew*, 1996: 315
Polyaroidea Hardy, 1988: 105
Proepacrocerus Hardy, 1988: 110
Pseudoneothemara Hardy, 1986: 111
Quasicooronga Hardy & Drew, 1996: 328
Quasirhabdochaeta Hardy, 1986: 114
Rabauliomorpha Hardy, 1970: 122
Rhaibophleps Hardy, 1973: 203
Robertsomyia Hardy, 1983: 228
Saucromyia Hardy, 1986: 125
Scolocolus Hardy, 1970: 95
Sophiropsis Hardy, 1986: 126
Spaniothrix Hardy, 1973: 206 [= *Sophira* (*Kambangania*)]
Stigmatomyia Hardy, 1986: 129
Tanaodema Hardy, 1987: 350
Tanymetopus Hardy, 1982: 88
Tarphobregma Hardy, 1987: 353
Tetrameringophrys Hardy, 1973: 165 [= *Dimeringophrys*]
Udamolobium Hardy, 1982: 90
Walkeraitia Hardy, 1986: 177
Xenosophira Hardy, 1980: 157
- Therevidae** - 1
Zionea Hardy, 1938: 144 [= *Nebritus*]
- Xenasteiidae** - 1
Xenasteia Hardy, 1980: 211
- SPECIES-GROUP NAMES** -- total 1867
- Asilidae** - 7
Bromleyus flavidorsus Hardy, 1944: 226
Erax cuervanus Hardy, 1943: 27 [= *Efferia*]
Leptogaster bifidus Hardy, 1942: 59 [= *Beameromyia*]
Leptogaster occidentis Hardy, 1942: 61 [= *Beameromyia*]
Leptopteromyia americana Hardy, 1947: 74
Nicocles bromleyi Hardy, 1943: 28
Stenopogon huachucanus Hardy, 1942: 57
- Asteiidae** - 7
Asteia aberrans Hardy & Delfinado, 1980: 233
Asteia mauiensis Hardy & Delfinado, 1980: 238
Asteia molokaiensis Hardy & Delfinado, 1980: 238
Asteia montgomeryi Hardy & Delfinado, 1980: 239
Asteia palikuensis Hardy & Delfinado, 1980: 242
Asteia sabroskyi Hardy & Delfinado, 1980: 244
Loewimyia orbiculata Hardy, 1980: 249
- Bibionidae** - 305
Biblio ablusus Hardy, 1965: 9
Biblio adjunctus Hardy & Takahashi, 1960: 407
Biblio affiniproximus Hardy, 1965: 10
Biblio ainoi Hardy & Takahashi, 1960: 408
Biblio amputonervis Hardy & Takahashi, 1960: 409
Biblio aneuretus Hardy & Takahashi, 1960: 411
Biblio anopsis Hardy, 1968: 444
Biblio aquilus Hardy, 1967: 528
Biblio araeoceles Hardy, 1967: 529
Biblio beameri Hardy, 1945: 451
Biblio bisepta Hardy, 1937: 204 [= *melanopilus*]
Biblio brevicurris Hardy, 1950: 145
Biblio brunetti Hardy, 1973: 435
Biblio carolinus Hardy, 1945: 457
Biblio cognatus Hardy, 1937: 199
Biblio columbiaensis Hardy, 1938: 207
Biblio conjunctivus Hardy, 1937: 200 [= *albipennis*]
Biblio conus Hardy, 1938: 208 [= *striatipes*]
Biblio currani Hardy, 1937: 200 [= *nigritus*]
Biblio dacunhai Hardy, 1981: 151
Biblio deceptus Hardy & Takahashi, 1960: 413
Biblio flavihalter Hardy & Takahashi, 1960: 415
Biblio fluginatus Hardy, 1937: 201
Biblio flukei Hardy, 1937: 202
Biblio gilvus Hardy, 1937: 206 [= *nigrifemoratus*]
Biblio gracilipalpis Hardy & Takahashi, 1960: 417
Biblio hennigi Hardy, 1952: 425
Biblio holomaurus Hardy & Takahashi, 1960: 419
Biblio illaudatus Hardy, 1961: 94
Biblio imparilis Hardy, 1959: 209
Biblio jacobi Hardy, 1938: 209 [= *rufitibialis*]
Biblio kenyaensis Hardy, 1950: 148
Biblio knowltoni Hardy, 1937: 202
Biblio lobatus Hardy, 1937: 203
Biblio lucens Hardy, 1937: 203 [= *nigripilus*]
Biblio medianus Hardy & Takahashi, 1960: 423
Biblio melanopilosus Hardy, 1936: 195
Biblio metaclavipes Hardy & Takahashi, 1960: 425
Biblio mickeli Hardy, 1937: 204
Biblio montanus Hardy & Takahashi, 1960: 426
Biblio necotus Hardy, 1937: 205
Biblio neojacobi Hardy, 1945: 476 [= *rufitibialis*]
Biblio nepalensis Hardy, 1967: 532
Biblio nigriclavipes Hardy & Takahashi, 1960: 428
Biblio nigrifemoratus Hardy, 1937: 206
Biblio obuncus Hardy & Takahashi, 1960: 429
Biblio omani Hardy & Takahashi, 1960: 431
Biblio paltidus Hardy, 1937: 203 [= *knowltoni*]
Biblio pruinus Hardy, 1950: 151
Biblio rufalipes Hardy, 1937: 207
Biblio rufitibialis Hardy, 1938: 209
Biblio ryukyuensis Hardy & Takahashi, 1960: 436
Biblio scaurus Hardy, 1965: 16
Biblio sericatus Hardy, 1937: 207
Biblio sierrae Hardy, 1960: 255
Biblio signatus Hardy, 1937: 208 [= *xanthopus*]
Biblio simulans Hardy & Takahashi, 1960: 438
Biblio singularis Hardy & Takahashi, 1960: 439
Biblio stonei Hardy, 1942: 142 [= *vicinus*]
Biblio teneus Hardy, 1937: 208
Biblio totonigrum Hardy, 1965: 18
Biblio townesi Hardy, 1945: 487
Biblio upembensis Hardy, 1952: 58
Biblio utahensis Hardy, 1937: 208
Biblio velcidus Hardy, 1937: 209
Biblio wulpi Hardy, 1953: 349
Biblio xuthopteron Hardy, 1968: 450
Bibionellus aczeli Hardy, 1953: 345
Dilophus aberratus Hardy, 1982: 822
Dilophus aquilonia Hardy & Takahashi, 1960: 443
Dilophus atelestes Hardy, 1937: 210 [= *tibialis*]
Dilophus atripennis Hardy, 1982: 824
Dilophus beckeri Hardy, 1948: 36
Dilophus brevirostrum Hardy & Takahashi, 1960: 445
Dilophus cantrelli Hardy, 1982: 825
Dilophus collessi Hardy, 1982: 826
Dilophus conformis Hardy, 1982: 456
Dilophus conspicuus Hardy, 1982: 828
Dilophus crenulatus Hardy & Delfinado, 1969: 148
Dilophus dichromatus Hardy, 1968: 457
Dilophus discretus Hardy, 1982: 830
Dilophus dubius Hardy, 1982: 831

- Dilophus flavicrus* Hardy, 1982: 831
Dilophus fulviventris Hardy & Takahashi, 1960: 446
Dilophus gracilis Hardy, 1968: 421
Dilophus harrisoni Hardy, 1953: 515
Dilophus hirsutus Hardy, 1965: 22
Dilophus innubilis Hardy & Delfinado, 1969: 149
Dilophus longipilosus Hardy, 1982: 833
Dilophus mcalpinei Hardy, 1982: 836
Dilophus modicus Hardy, 1982: 837
Dilophus partitus Hardy, 1982: 839
Dilophus parvus Hardy, 1982: 839
Dilophus paucidens Hardy, 1962: 170
Dilophus pictilis Hardy & Delfinado, 1969: 150
Dilophus sexspinosus Hardy, 1982: 844
Dilophus skusei Hardy, 1982: 845
Dilophus surrufus Hardy, 1982: 847
Dilophus tersus Hardy, 1982: 848
Dilophus tetrascolus Hardy, 1982: 850
Dilophus transvestis Hardy, 1968: 463
Dilophus tricuspis Hardy, 1982: 851
Dilophus variceps Hardy, 1942: 133
Enicoscolus brachycephalus Hardy, 1961: 82
Enicoscolus collessi Hardy, 1962: 783
Enicoscolus dolichocephalus Hardy, 1961: 82
Penthetria appendicula Hardy, 1945: 384
Penthetria brunetti Hardy, 1948: 36
Penthetria distincta Hardy, 1945: 385
Penthetria formosana Hardy, 1953: 103
Philia anomalus Hardy, 1942: 127 [= *Dilophus*]
Philia arizonaensis Hardy, 1937: 209 [= *Dilophus*]
Philia bakeri Hardy, 1951: 260 [= *Dilophus*]
Philia brazilensis Hardy, 1948: 36 [= *Dilophus*]
Philia buxtoni Hardy, 1948: 123 [= *Dilophus*]
Philia crinitus Hardy, 1951: 262 [= *Dilophus*]
Philia edwardsi Hardy, 1948: 36 [= *Dilophus*]
Philia exiguus Hardy, 1951: 263 [= *Dilophus*]
Philia globosus Hardy, 1942: 128 [= *Dilophus*]
Philia golbachi Hardy, 1953: 364 [= *Dilophus*]
Philia inconnexus Hardy, 1961: 94 [= *Dilophus*]
Philia jamesi Hardy, 1937: 210 [= *Dilophus obesulus*]
Philia lucidus Hardy, 1948: 125 [= *Dilophus*]
Philia minimus Hardy, 1942: 129 [= *Dilophus*]
Philia multispinosus Hardy, 1951: 266 [= *Dilophus*]
Philia niger Hardy, 1937: 212 [= *Dilophus*]
Philia obsoletus Hardy, 1951: 91 [= *Dilophus*]
Philia oklahomensis Hardy, 1937: 211 [= *Dilophus occipitalis*]
Philia ornatus Hardy, 1942: 130 [= *Dilophus*]
Philia peruensis Hardy, 1948: 36 [= *Dilophus*]
Philia philippii Hardy, 1959: 470 [= *Dilophus*]
Philia quadridens Hardy, 1953: 370 [= *Dilophus*]
Philia quinquespinae Hardy, 1961: 96 [= *Dilophus*]
Philia quintanus Hardy, 1951: 270 [= *Dilophus*]
Philia rostrata Hardy, 1951: 271 [= *Dilophus longirostris*]
Philia sayi Hardy, 1959: 471 [= *Dilophus*]
Philia segregatus Hardy, 1961: 98 [= *Dilophus*]
Philia serenus Hardy, 1953: 371 [= *Dilophus*]
Philia splendens Hardy, 1951: 92
Philia tingi Hardy, 1942: 132
Philia tuthilli Hardy, 1953: 518
Philia vicarius Hardy, 1948: 127
Plecia acuminata Hardy, 1968: 470
Plecia adiaetola Hardy & Takahashi, 1960: 395
Plecia affinidecora Hardy, 1968: 470
Plecia affiniparva Hardy & Delfinado, 1969: 122
Plecia aliena Hardy, 1948: 109
Plecia americana Hardy, 1940: 15
Plecia amplitergum Hardy, 1967: 522
Plecia nigra spp. argentina Hardy, 1953: 353 [= full species]
Plecia assamensis Hardy, 1949: 1
Plecia avicephaliforma Hardy, 1940: 16
Plecia basalis Hardy, 1948: 110
Plecia bequaerti Hardy, 1952: 160
Plecia biarmata Hardy, 1942: 105
Plecia bidens Hardy, 1948: 111
Plecia bifida Hardy, 1968: 474
Plecia biformis Hardy, 1942: 106
Plecia bilobata Hardy, 1948: 113
Plecia bisulca Hardy, 1968: 474
Plecia brachystylata Hardy & Delfinado, 1969: 125
Plecia brazilana Hardy, 1942: 106
Plecia burmensis Hardy, 1958: 193
Plecia cana Hardy, 1950: 76
Plecia capitata Hardy, 1951: 324
Plecia celodens Hardy, 1962: 152
Plecia chinensis Hardy, 1949: 2
Plecia rufithorax spp. concava Hardy, 1942: 114 [= full species]
Plecia connata Hardy, 1962: 153
Plecia coronata Hardy, 1951: 326
Plecia crenula Hardy, 1968: 478
Plecia curta Hardy, 1948: 114
Plecia curtispina Hardy, 1968: 481
Plecia curvistylata Hardy, 1942: 107
Plecia cuspidata Hardy, 1968: 481
Plecia decepta Hardy, 1953: 91
Plecia decora Hardy, 1950: 78
Plecia dentata Hardy, 1942: 107
Plecia diopsa Hardy & Delfinado, 1969: 127
Plecia disjuncta Hardy, 1958: 195
Plecia disparis Hardy, 1942: 108
Plecia dispersa Hardy, 1958: 196
Plecia diversa Hardy, 1958: 202
Plecia duplicis Hardy, 1968: 486
Plecia ecuadorensis Hardy, 1942: 108
Plecia edwardsi Hardy, 1940: 17
Plecia elongata Hardy, 1952: 79
Plecia erebeoidea Hardy, 1982: 814
Plecia evexa Hardy, 1962: 154
Plecia exechia Hardy & Delfinado, 1969: 128
Plecia flavibasis Hardy, 1962: 156
Plecia freemani Hardy, 1962:
Plecia furva Hardy, 1952: 429
Plecia fuscinervis Hardy, 1948: 115
Plecia gibbosa Hardy, 1942: 109
Plecia gilvipennis Hardy, 1949: 94
Plecia gressitti Hardy, 1953: 92
Plecia gurneyi Hardy, 1950: 79
Plecia hadrosoma Hardy & Takahashi, 1960: 397
Plecia hamata Hardy, 1968: 489
Plecia impensa Hardy, 1957: 238
Plecia impilosa Hardy, 1940: 17
Plecia inconspicua Hardy, 1950: 79
Plecia incurvata Hardy, 1942: 110
Plecia insolita Hardy, 1952: 82
Plecia intercedens Hardy, 1953: 95
Plecia intricata Hardy, 1968: 491
Plecia jubata Hardy & Delfinado, 1969: 131
Plecia keiseri Hardy, 1962: 151
Plecia laffooni Hardy, 1950: 80
Plecia lateodens Hardy, 1962: 157
Plecia lateralis Hardy, 1940: 18
Plecia laticlavum Hardy, 1962: 159
Plecia lieftincki Hardy, 1968: 493

- Plecia longipalpus* Hardy, 1962: 160
Plecia lopesi Hardy, 1940: 19
Plecia maculata Hardy, 1942: 110
Plecia madagascarensis Hardy, 1949: 95
Plecia magnispina Hardy, 1958: 206
Plecia malabarana Hardy, 1949: 4
Plecia malayaensis Hardy, 1948: 36
Plecia malkini Hardy, 1952: 83
Plecia mallochi Hardy, 1948: 36
Plecia manni Hardy, 1950: 82
Plecia mayoensis Hardy, 1950: 84
Plecia membranifera Hardy & Takahashi, 1960: 398
Plecia mexicana Hardy, 1937: 199 [= *Penthetria*]
Plecia ecuadorensis spp. *micans* Hardy, 1942: 108 [= full species]
Plecia monticola Hardy, 1958: 209
Plecia multilobata Hardy, 1968: 495
Plecia nagatomii Hardy & Takahashi, 1960: 399
Plecia nearctica Hardy, 1940: 20
Plecia neglecta Hardy, 1953: 97
Plecia nilgirensis Hardy, 1949: 5
Plecia obtusicornis Hardy, 1968: 496
Plecia obtusilobata Hardy, 1968: 497
Plecia octodentata Hardy, 1948: 117
Plecia oculastra Hardy, 1968: 499
Plecia odontata Hardy, 1962: 162
Plecia okadai Hardy & Takahashi, 1960: 401
Plecia paenerubescens Hardy, 1961: 112
Plecia pagdeni Hardy, 1960: 258
Plecia palauensis Hardy, 1957: 88
Plecia panamaensis Hardy, 1942: 111
Plecia paracollaris Hardy, 1961: 88
Plecia parvistylata Hardy, 1942: 112
Plecia patula Hardy, 1968: 500
Plecia pauliani Hardy, 1951: 329
Plecia perplexa Hardy, 1942: 112
Plecia persimilis Hardy, 1940: 21
Plecia pertinens Hardy, 1942: 112
Plecia peruviana Hardy, 1961: 89
Plecia platystyla Hardy, 1957: 239
Plecia platyura Hardy & Delfinado, 1969: 136
Plecia prolifixa Hardy, 1962: 164
Plecia propeforcipata Hardy, 1968: 501
Plecia propria Hardy, 1968: 503
Plecia pruinosa Hardy, 1940: 22
Plecia pudica Hardy, 1968: 420
Plecia pullata Hardy, 1949: 7
Plecia pulliparva Hardy & Delfinado, 1969: 138
Plecia punctulata Hardy, 1940: 23
Plecia quadrata Hardy, 1952: 83
Plecia quasimaculata Hardy, 1961: 90
Plecia quatei Hardy, 1967: 524
Plecia recaviterga Hardy & Delfinado, 1969: 138
Plecia reclusa Hardy, 1962: 165
Plecia rectoria Hardy, 1942: 113
Plecia redunca Hardy, 1952: 84
Plecia retusa Hardy, 1962: 166
Plecia rhinigera Hardy, 1968: 504
Plecia robusta Hardy, 1950: 11
Plecia pullata ssp. *rubicunda* Hardy, 1953: 98 [= *pullata*]
Plecia rufimarginata Hardy, 1940: 24
Plecia rufiscutella Hardy, 1940: 24
Plecia rugosa Hardy, 1940: 25
Plecia sana Hardy, 1948: 118
Plecia scenica Hardy, 1952: 86
Plecia septentrionalis Hardy, 1953: 98
Plecia serrata Hardy, 1942: 114
Plecia serrifera Hardy, 1968: 505
Plecia siamensis Hardy, 1953: 100
Plecia sinensis Hardy, 1953: 101
Plecia spilotata Hardy, 1968: 506
Plecia stricta Hardy, 1968: 508
Plecia stuckenbergi Hardy, 1962: 167
Plecia sundaensis Hardy, 1952: 432
Plecia tecta Hardy, 1949: 8
Plecia tenebrosa Hardy, 1958: 215
Plecia tetrascolata Hardy, 1968: 509
Plecia thulinigra Hardy, 1961: 93
Plecia tridens Hardy, 1958: 217
Plecia trifida Hardy, 1968: 510
Plecia trilobata Hardy, 1942: 114
Plecia uberta Hardy, 1942: 115
Plecia ugandaensis Hardy, 1948: 119
Plecia uncinata Hardy, 1948: 121
Plecia varabilis Hardy, 1942: 115
Plecia visenda Hardy, 1950: 75
Plecia wittei Hardy, 1950: 7
Plecia xenia Hardy, 1942: 109
Plecia yabaensis Hardy, 1952: 89
Plecia yunnanica Hardy, 1953: 102
Plecia zamboanga Hardy, 1950: 84
Plecia zernyi Hardy, 1952: 89
- Calliphoridae - 2**
Dyscritomyia alta Hardy, 1981: 303
Dyscritomyia viridis Hardy, 1981: 347
- Canacidae - 6**
Procanace acuminata Hardy & Delfinado, 1980: 389
Procanace bifurcata Hardy & Delfinado, 1980: 392
Procanace confusa Hardy & Delfinado, 1980: 394
Procanace constricta Hardy & Delfinado, 1980: 396
Procanace quadrisetosa Hardy & Delfinado, 1980: 401
Procanace wirthi Hardy & Delfinado, 1980: 404
- Canthylosceldidae - 1**
Hyperoscelis insignis Hardy & Nagatomi, 1960: 265 [= *eximia*]
- Carnidae - 3**
Aphaniosoma macalpinei Hardy, 1980: 174
Aphaniosoma minutum Hardy, 1980: 174
Gymnochironomyia hawaiiensis Hardy, 1980: 177
- Cecidomyiidae - 13**
Coccodiplosis ananasae Hardy, 1960: 283
Giardomyia furvescens Hardy, 1960: 287
Giardomyia pallidithorax Hardy, 1960: 288
Heterocontarinia spinosa Hardy, 1960: 271
Lestodiplosis fimicola Hardy, 1960: 291
Lestodiplosis obtusilobata Hardy, 1960: 292
Lestremia clivicola Hardy, 1960: 249
Lestremia palikuensis Hardy, 1960: 252
Mayetiola kaalae Hardy, 1960: 276
Microdiplosis beardsleyi Hardy, 1960: 296 [= *Arthrocnodax*]
Monardia recondita Hardy, 1960: 254
Nanodiplosis pucciniacola Hardy, 1960: 298
Parallelodiplosis bimaculata Hardy, 1960: 300
- Ceratopogonidae - 3**
Dasyhelea platychaeta Hardy, 1960: 185
Forcipomyia fuscimaculata Hardy, 1960: 170 [= *borbonica*]
Forcipomyia palikuensis Hardy, 1960: 175

Chironomidae - 19

- Calopsectra hawaiiensis* spp. *albifasciata* Hardy, 1960: 106 [Microsectra, full species]
Calopsectra bryanti Hardy, 1960: 102 [= Microsectra]
Calopsectra hawaiiensis Hardy, 1960: 104 [= Microsectra]
Calopsectra kaalae Hardy, 1960: 107 [= Microsectra]
Calopsectra lacteiclava spp. *latifasciata* Hardy, 1960: 110 [Microsectra, full species]
Calopsectra kaalae spp. *monticola* Hardy, 1960: 109 [Microsectra, full species]
Chironomus pauciplumatus Hardy, 1960: 115
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Pipunculus apletomeris Hardy, 1964: 321 [= Cephalops]
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- Pipunculus imparilis* Hardy, 1968: 474 [= Cephalops]
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Pipunculus juvenecus Hardy, 1964: 347 [= Cephalops]
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Pipunculus malaisei Hardy, 1972: 134 [= Eudorylas]
Pipunculus megameris Hardy, 1964: 352 [= Cephalops]
Pipunculus confraternulus var. *melanis* Hardy & Knowlton, 1939: 113 [= Metadorylas industrius]
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Pipunculus mundulus Hardy, 1968: 479 [= Cephalops]
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Pipunculus nagatomii Hardy, 1972: 22 [= Cephalops]
Pipunculus obstipus Hardy, 1964: 360 [= Cephalops]
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Pipunculus paganus Hardy, 1965: 19 [= Cephalops]
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Pipunculus parilis Hardy, 1972: 58 [= Eudorylas]
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Pipunculus patulus Hardy, 1972: 35 [= Cephalosphaera]
Pipunculus penepauculus Hardy, 1965: 232 [= Cephalops]
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Pipunculus ravidateralis Hardy, 1965: 234 [= Microcephalops]
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Pipunculus remiformis Hardy, 1962: 266 [= Eudorylas]
Pipunculus remotus Hardy, 1972: 60 [= Eudorylas]
Pipunculus rufopictus Hardy, 1962: 260 [= Microcephalops]
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Pipunculus sectus Hardy, 1964: 367 [= Cephalops]
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Pipunculus wilburi Hardy, 1939: 22 [= Tomosvaryella]
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Dacus affinidorsalis Hardy, 1982: 215 [= *Bactrocera*]
Dacus affinis Hardy, 1954: 7 [= *Bactrocera*]
Dacus aglaiae Hardy, 1952: 365 [= *Bactrocera*]
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Dacus luzonae Hardy & Adachi, 1954: 174 [= *Bactrocera*]
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Dacus aberrans ssp. *nigritus* Hardy, 1955: 5 [= *Bactrocera*]
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Dacus ortholomatus Hardy, 1982: 188
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Myoleja ismayi Hardy, 1987: 324 [= *Philophylla*]
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Paraxarnuta anephelobasis Hardy, 1973: 196
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Paroxyna brunneimacula Hardy, 1988: 37 [= *Austrotephritis*]
Paroxyna infrequens Hardy & Drew, 1996: 310 [= *Scedella*]
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Rabauliomorpha gibbosa Hardy, 1970: 124
Rhabdochaeta ampla Hardy, 1973: 286
Rhabdochaeta brachycera Hardy, 1974: 212 [= *Pararhabdochaeta*]
Rhabdochaeta cockeri Hardy, 1985: 66
Rhabdochaeta convergens Hardy, 1974: 214 [= *Pararhabdochaeta*]
Rhabdochaeta dorsosetoseta Hardy, 1970: 110 [= *Rhochmopterum venustum*]
Rhabdochaeta parva Hardy, 1974: 219 [= *Rhochmopterum*]
Rhabdochaeta pluscula Hardy, 1970: 128
Rhabdochaeta queenslandica Hardy & Drew, 1996: 336
Rhabdochaeta wedelia Hardy & Drew, 1996: 338
Rhagoletis ochrastis Hardy, 1968: 140
Rhagoletis rumpomaculata Hardy, 1964: 159
Rhaibophleps seclusa Hardy, 1973: 204
Rioxa confusa Hardy, 1951: 183 [= *Dirioxa pornia*]
Rioxa megispilota Hardy, 1970: 82
Rioxa vinnula Hardy, 1973: 111
Robertsomyia paradoxa Hardy, 1983: 230
Saucromyia bicolor Hardy, 1986: 126
Schistopterum ismayi Hardy, 1982: 88
Scolocolus bicolor Hardy, 1970: 96
Soita baltazarae Hardy, 1974: 151
Soita ensifera Hardy, 1974: 152
Sophira disjuncta Hardy, 1980: 141 [= *ypsilon*]
Sophira kurahashii Hardy, 1980: 131
Sophira linduensis Hardy, 1980: 135
Sophira medioflava Hardy, 1974: 83
Sophira philippinensis Hardy, 1974: 84
Sophira spectabilis Hardy, 1980: 139
Sophiropsis calcarata Hardy, 1986: 128
Spaniothrix vittata Hardy, 1973: 206 [= *Sophira*]
Sphenella novaguineensis Hardy, 1988: 62
Staucrocneros imitator Hardy, 1970: 99 [= *Coelotrypes circumscriptus*]
Stigmatomyia arcuata Hardy, 1986: 129
Styilia apiciclara Hardy, 1973: 326 [= *Campiglossa orientalis*]
Styilia philippinensis Hardy, 1974: 248 [= *Campiglossa*]
Styilia siamensis Hardy, 1973: 329 [= *Campiglossa*]
Styilia spenceri Hardy, 1973: 330 [= *Campiglossa*]
Tanaodema porrecta Hardy, 1987: 351
Tanymetopus claripennis Hardy, 1982: 88
Tarphobregma carinatifrons Hardy, 1987: 354
Tarphobregma pandani Hardy, 1987: 356
Tephrella heringi Hardy, 1970: 129 [= *Hendrella*]
Tephrella trimaculata Hardy, 1988: 17 [= *Hendrella*]
Tephritis brunnea Hardy & Drew, 1996: 352 [= *Austrotephritis*]
Tephritis bushi Hardy & Drew, 1996: 354 [= *Austrotephritis*]
Tephritis cardualis Hardy, 1974: 373
Tephritis coei Hardy, 1964: 164 [*Campiglossa*]
Tephritis daedala Hardy, 1964: 166
Tephritis distigmata Hardy & Drew, 1996: 356 [= *Austrotephritis*]
Tephritis furcata Hardy & Drew, 1996: 358
Tephritis hesperia Hardy & Drew, 1996: 360 [= *Austrotephritis*]
Tephritis pantosticta Hardy & Drew, 1996: 362 [= *Payahyalopeza*]
Tephritis phaeostigma Hardy & Drew, 1996: 367 [= *Austrotephritis*]
Tephritis proluxa Hardy & Drew, 1996: 371 [= *Paraactinoptera*]
Tephritis protrusa Hardy & Drew, 1996: 373 [= *Austrotephritis*]
Tephritis pumila Hardy & Drew, 1996: 376 [= *Austrotephritis*]
Tephritis quasiproluxa Hardy & Drew, 1996: 378 [= *Austrotephritis*]
Tephritis tasmaniae Hardy & Drew, 1996: 380 [= *Austrotephritis*]
Tephritis trupanea Hardy & Drew, 1996: 381 [= *Austrotephritis*]
Termitorioxia timorensis Hardy, 1986: 132
Tetrameringophrys parilis Hardy, 1973: 165 [= *Dimeringophrys pallidipennis*]
Themara horsfieldi Hardy, 1977: 69 [= *maculipennis*]
Themara ostensackeni Hardy, 1974: 91
Themarohystrix alpina Hardy, 1986: 143
Themarohystrix bivittata Hardy, 1986: 145
Themarohystrix hyalina Hardy, 1986: 147
Themarohystrix nigri-facies Hardy, 1986: 149
Themarohystrix perkinsi Hardy, 1986: 149
Themarohystrix variabilis Hardy, 1986: 151
Themaroides robertsi Hardy, 1986: 156
Themaroides vittata Hardy, 1986: 158
Themaroides xanthosoma Hardy, 1986: 160
Themaroidopsis quinquevittata Hardy, 1986: 162
Themaroidopsis rufescens Hardy, 1986: 163
Themaroidopsis tetraspilota Hardy, 1986: 164
Tritaeiopteron elachispilotum Hardy, 1973: 115 [= *tetraspilotum*]
Tritaeiopteron flavifacies Hardy, 1974: 92
Tritaeiopteron tetraspilotum Hardy, 1973: 115
Trupanea apicalis Hardy, 1980: 64
Trupanea arborea Hardy, 1980: 66
Trupanea artemisiae Hardy, 1980: 68
Trupanea beardsleyi Hardy, 1980: 69
Trupanea bidensicola Hardy, 1980: 72
Trupanea bifida Hardy & Drew, 1996: 387
Trupanea brunneipennis Hardy, 1973: 333
Trupanea celaenoptera Hardy, 1980: 72
Trupanea decepta Hardy, 1970: 114
Trupanea dempta Hardy, 1980: 78
Trupanea denotata Hardy, 1980: 80
Trupanea heronensis Hardy & Drew, 1996: 390
Trupanea isolata Hardy, 1973: 335
Trupanea joycei Hardy, 1980: 84
Trupanea latinota Hardy, 1988: 74
Trupanea lipochaetae Hardy, 1980: 88
Trupanea lyneborgi Hardy, 1970: 131
Trupanea marginalis Hardy, 1980: 90
Trupanea megaspila Hardy, 1980: 91
Trupanea neoapicalis Hardy, 1989: 530 [= *apicalis*]

- Trupanea nigripennis* Hardy, 1980: 92
Trupanea notata Hardy & Drew, 1996: 393
Trupanea pantosticta Hardy, 1980: 93
Trupanea pekeloii Hardy, 1980: 95
Trupanea perkinsi Hardy, 1980: 97
Trupanea prolata Hardy & Drew, 1996: 395
Trupanea pusilla Hardy & Drew, 1996: 397
Trupanea queenslandensis Hardy & Drew, 1996: 398
Trupanea rufa Hardy, 1988: 79
Trupanea simplicissima Hardy & Foote, 1989: 531 [= simplex]
Trupanea terryi Hardy, 1988: 83
Trupanea vernoniae Hardy, 1973: 337
Trypanocentra adjusta Hardy, 1986: 176 [= *nigripennis*]
Trypanocentra atrifacies Hardy, 1986: 173
Trypanocentra bipectinata Hardy, 1986: 174
Trypanocentra gressitti Hardy, 1986: 176
Trypanocentra longicornis Hardy, 1986: 168
Trypanocentra mallochi Hardy, 1986: 169
Trypanocentra tricuneata Hardy, 1986: 172
Trypeta aberrans Hardy, 1973: 279
Trypeta accola Hardy, 1973: 281 [= *Vidalia*]
Udamolobium pictulum Hardy, 1982: 90
Vidalia bicolor Hardy, 1987: 364
Vidalia ceratophora Hardy, 1977: 116
Vidalia tuberculata Hardy, 1970: 108
Xanthorrhachis assamensis Hardy, 1973: 283
Xanthorrhachis sabahensis Hardy, 1988: 119
Xarnuta sabahensis Hardy, 1986: 184
Xarnuta stellaris Hardy, 1970: 85
Xenosophira invibrissata Hardy, 1980: 158
Xenosophira vibrissata Hardy, 1980: 159
Tethinidae - 3
Apetaneus watsoni Hardy, 1962: 965
Dasyrhicnoessa vockerothi Hardy & Delfinado, 1980: 373
Pelomyia steyskali Hardy & Delfinado, 1980: 375
Therevidae - 4
Epomyia flavipes Hardy, 1943: 26 [= *Cyclotelus*]
Psilocephala squamosa Hardy, 1943: 24 [= *Brachylynga*]
Thereva utahensis Hardy, 1938: 145
Zionea tanneri Hardy, 1938: 144 [= *Nebritus*]
Xenasteiidae - 7
Xenasteia aldabrae Hardy, 1980: 215
Xenasteia divergens Hardy, 1980: 216
Xenasteia okinawaensis Hardy, 1980: 217
Xenasteia palauensis Hardy, 1980: 218
Xenasteia sabroskyi Hardy, 1980: 221
Xenasteia seychellensis Hardy, 1980: 222
Xenasteia similis Hardy, 1980: 224
Xylophagidae - 1
Dialysis kesseli Hardy, 1948: 129

Keeping Score

Keeping score is a grand old American tradition: From sports where there are numerous statistics for every game to almost every other activity, Americans have found ways to assess how people perform, at least quantitatively.

In the sciences, counting prizes (like Nobels) to publications and their impact factors (like citation index) are common, but these measures do not really apply well to taxonomists. Years ago, Alexander (1942) suggested ranking taxonomists by the number of species they described. Later quantitative scores to measure a worker's ability to discover and identify species (taxonomy) and their names (nomenclature) were proposed (Thompson & Pedersen, 1986).

None of these measures have been used much as gathering the data has been very difficult. Now with near completion of the biosystematic Database of World Diptera (Thompson, 2003), at least some basic statistics can be easily generated. So, we have ranked Elmo with his peers, historical and contemporaneous, and Elmo stands among the best, the most productivity dipterists of all times.

Our table provides the following items: **Column 1.** The last name of the dipterist; **Column 2.** Year of the birth of the dipterist; **Column 3.** Year of the death of the dipterist; **Column 4.** Number of available names proposed by the dipterist. This includes names now considered as junior synonyms, homonyms, unjustified replacement names and emendations; **Column 5.** Number of species. This is the number of names proposed that are currently considered to represent valid species; **Column 6.** Percentage of names that are considered valid today; **Column 7.** Year of first scientific publication; **Column 8.** Year of last scientific publication; **Column 9.** Average number of species described per working year (column 4 divided by column 12); **Column 10.** Number of major scientific publications. Major being used in the sense of publications that contain critical taxonomic and nomenclatural data, not all the various notes, book reviews and other popular writings. For some authors, we have used their own lists of publications and have taken only those that they themselves have numbered (such Alexander, Hardy, *et alia*). Otherwise we have counted those publications listed in standard bibliographic sources such as Hagen (1862–1863), Horn & Schlenkling (1928–1929); Derksen & Scheiding (1965–1975) and Zoological Record. For some of these authors, the Bio-Systematic Database of World Diptera is now completed and was therefore used as a source. **Column 11.** Age of author at death; **Column 12.** Number of years worked (column 7 minus column 8); **Column 13.** Average number of publications per working year.

Table 1. Statistics on the top thirteen dipterists.

Author	Birth	Death	Names	Valid	%	Start	End	Spp/yr	Pubs	Age	Years worked	Pubs/year
Alexander	1889	1981	11144	10711	0.96	1910	1981	154.8	1017	92	72	14.1
Walker	1809	1874	3917	2691	0.69	1833	1874	92.6	38	65	42	0.9
Kieffer	1856	1925	3528	3143	0.89	1884	1930	75.1	470	69	47	10.0
Loew	1807	1878	3525	2645	0.75	1840	1880	83.3	219	71	41	5.3
Malloch	1875	1963	3315	2749	0.83	1910	1942	100.2	198	88	33	6.0
Macquart	1778	1855	3207	2028	0.63	1819	1855	85.8	34	77	37	0.9
Rob.-Desv. ¹	1799	1857	2805	1427	0.51	1827	1863	75.81	35	58	37	1.5
Meigen	1764	1845	2699	1738	0.64	1800	1835	75.0	10	81	36	0.3
Curran	1894	1972	2664	1940	0.73	1920	1965	57.9	406	78	46	8.8
Edwards	1888	1940	2531	2320	0.92	1907	1941	72.3	408	52	35	11.7
Becker	1840	1928	2381	1946	0.82	1887	1931	52.9	121	88	45	2.7
Hardy	1914	2002	1867	1783	0.96	1936	2001	28.3	236	88	66	3.6

1. Robineau-Desvoidy

On the productivity of dipterists

All of the top thirteen were specialists on Diptera except for Francis Walker, who also worked on a number of other insect groups [for Walker, only statistics related to his work on Diptera are included]. The earlier systematists, who described large numbers of species, described only a few Diptera: Linnaeus (1707–1778) described some 15,000 species (10,000 plants, 5,000 animals), but only 275 flies; Fabricius (1745–1808) described some 9,776 insects, but only 944 flies (Zimsen, 1964). No living dipterist has described more than 700 species; the closest living dipterist to Hardy is Boris Mamaev (1932–), who described 650 species. The only contemporaneous workers who were close to Hardy in numbers were Ken Spencer (1916–2002; 1,224 names, 132 publications; Spencer, 1992) and Bill Wirth (1916–1994; 1,345 names; 406 publications; Arnaud & Arnaud, 2001). Even the great Willi Hennig (1913–1976) only described 514 species (158 publications).

Overall, more than 4,300 workers have described species of flies, but some 1,500 only described a single species; 3,500 ten or less; and only 329 workers have described 100 species or more. The overall average productivity for all dipterists is 0.2 species described per year per author. The overall average validity rate is 84 percent, that is, 145,239 species divided by 173,843 available names.

The data for the number of available names and taxa are from the BioSystematic Database of World Diptera. While this database is far from being complete, about 96% of the names in secondary sources are now included. So, while the actual figures may differ in future versions, the relative positions of the top thirteen are unlikely to change.

Also, in considering productivity one needs think of longevity. Edwards died very young for a taxonomist, but one might speculate that if he had lived as long as Alexander he clearly would have ranked just after Alexander in overall productivity. Elmo Hardy had long and productive years and will probably be the last person to break into the top thirteen.

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