

INSTITUTE OF AGRICULTURAL RESEARCH

A Check List of Aphids
Recorded from Ethiopia
(Homoptera:Aphididae)

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by

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INTRODUCTION

Until recently aphids have not been of great importance as crop pests in Ethiopia. The exceptions were the Cotton Aphid (Aphis gossypii Glover) which frequently needs chemical control and the Cabbage Aphid (Brevicoryne brassicae (Linnaeus)) which is damaging to cabbages in certain seasons.

Recently, however, other species have come into prominence, notably the Russian Wheat Aphid (Diuraphis noxius Mordvilko) and the Maize Aphid (Rhopalosiphum maidis Fitch) on barley and the various virus vectors on pepper, citrus and other horticultural crops.

Efforts are being made, therefore, to build an expertly identified local collection of aphids so that specimens can be determined in Ethiopia and not sent every time to foreign museums. As part of this exercise a list of species recorded from Ethiopia has been compiled from the literature and from field collections and is given below. The names have been corrected in accordance with the recent book of Eastop & Hille Ris Lambers (1976) but the form in which they were originally cited is also given.

The sources of information are:

1. The collections in Eritrea by De Lotto & Nastasi (1955) and De Lotto (1947, 1948, 1949, 1950).
2. The collections made in eastern Harer Province by Hill (1966).
3. The collections made by Schmutterer (1971) in eastern Welega and western Harer Provinces.
4. The collections made by US Regional Insect Control Project (Gentry, 1965).
5. The collections made by the IRAT Agronomists at Awasa. This collection is now at the Holotta Station of IAR, unmounted, in vials. There is no record of where, or by whom it was determined. Dr. Eastop kindly confirmed the determinations of Nos. 3, 40, 48 and 55.
6. The collections of IAR Entomologists from 1968 to 1981 inclusive. These were determined by the Commonwealth Institute of Entomology and the CIE List number is quoted.
7. Eastop's study of East African aphids (Eastop, 1958)

The first editions of this list, dated May 1979, was submitted to Dr. V.F. Eastop of the British Museum (Natural History). On his advice we have delated species from the original list because they were almost certainly misidentified and we have added ~~one~~ species that had been overlooked.

In October 1979 and in February 1981 a further collection of aphids was determined for us by CIE. Three new species records from this collection are also incorporated into this revised list.

LIST OF APHIDS

1. Acyrtosiphon pisum (Harris)
Record: De Lotto (1947), cited as Macrosiphum pisi.
2. Aloophagus myersi Essig
Record: De Lotto & Nastasi (1955), cited as Aloophagus meyersi.
3. Amphorophora rubi (Kaltenbach)
Record: Awasa collection
4. Aphis citricola van der Goot
Record: Awasa collection, cited as Aphis spiraccola,
5. Aphis craccivora Koch
Record: CIE List No. 4938 (Africa).
6. Aphis (Protaphis) delottoi (Eastop)
Record: Eastop (1958), cited as Brachyunguis delottoi.
7. Aphis euonymi Fabricius
Record: De Lotto (1949).
8. Aphis euphorbiae Kaltenbach
Record: De Lotto & Nastasi (1955).
9. Aphis fabae Scopoli
Record: CIE List No. 4938 (Africa).
10. Aphis gossypii Glover
Record: CIE List No. 4938 (Africa).
11. Aphis nasturtii Kaltenbach
Record: Hill (1966), cited as Aphis acetosella.
12. Aphis nerii Boyer de Fonscolombe
Record: CIE List No. 7605 (Africa).
13. Aphis rhoicola Hille Ris Lambers
Record: De Lotto & Nastasi (1955).
14. Aphis solanella Theobald
Record: CIE List No. 9108 (Africa)
15. Aphis verbasci Schrank
Record: De Lotto (1950)

16. Asiphonella cynodonti (Das)
Record: De Lotto & Nastasi (1955), cited as Pemphigus cynodontis.
17. Aulacorthum solani (Kaltenbach)
Record: Gentry (1965), cited as Acyrtosiphum solani.
18. Brachycaudus (Acaudus) cardui (Linnaeus)
Record: De Lotto & Nastasi (1955), cited as Brachycaudus cardui.
19. Brachycaudus helichrysi (Kaltenbach)
Record: De Lotto (1948).
20. Brachycaudus (Thuleaphis) rumexicolens (Patch)
Record: De Lotto (1948).
21. Brachyunguis carthami Das
Record: De Lotto (1950).
22. Brevicoryne brassicae (Linnaeus)
Record: De Lotto (1947).
23. Capitophorus elaeagni (Del Guercio)
Record: De Lotto (1948).
24. Capitophorus hippophaes (Walker)
Record: Awasa collection.
25. Cavariella aegopodii (Scopoli)
Record: Hill (1966).
26. Chaetosiphon (Pentatrachopus) fragaefolii (Cockerell)
Record: De Lotto (1950), cited as Pentatrachopus fragaefolii.
27. Chaetosiphon (Pentatrachopus) tetraerhodum (Walker)
Record: De Lotto (1948), cited as Capitophorus tetraerhodus.
28. Cinara tujafilina (Del Guercio)
Record: De Lotto & Nastasi (1955), cited as Cinara juniperina.
29. Diuraphis noxius (Mordvilko)
Record: CIE List No. 9108 (Africa)
30. Dysaphis foeniculus (Theobald)
Record: Hill (1966)

31. Dysaphis lappae (Koch)
Record: De Lotto (1949), cited as Sappaphis lappae.
32. Eriosoma lanigerum (Hausmann)
Record: De Lotto (1947).
33. Hyadaphis coriandri (Das)
Record: De Lotto & Nastasi (1955).
34. Hyperomyzus latucae (Linnaeus)
Record: De Lotto (1949).
35. Hysteroneura setariae (Thomas)
Record: CIE List No. 9108 (Africa)
36. Lipaphis erysimi (Kaltenbach)
Record: De Lotto (1948), cited as Rhopalosiphum pseudobrassicae.
37. Macrosiphoniella sanborni (Gillette)
Record: CIE List No. 7755 (Africa).
38. Macrosiphum euphorbiae (Thomas)
Record: De Lotto (1948) cited as Macrosiphum solanifolii.
39. Macrosiphum rosae (Linnaeus)
Record: De Lotto (1948).
40. Megoura viciae Buckton
Record: Awasa collection.
41. Melanaphis sacchari (Zehntner)
Record: De Lotto (1949), cited as Longiunguis sacchari.
42. Metopolophium dirhodum (Walker)
Record: Schmutterer (1971).
43. Myzus ornatus Laing
Record: De Lotto (1948).
44. Myzus (Nectarosiphon) persicae (Sulzer)
Record: De Lotto (1948).
45. Neophyllaphis grobleri Eastop
Record: Hill (1966).
46. Paoliella delottoi (Hille Ris Lambers)
Record: De Lotto & Nastasi (1955), cited as Unipterus delottoi.

47. Pentalonia nigronervosa Coquorel
Record: Schmutterer (1971).
48. Phorodon humuli (Schrank)
Record: Awasa collection.
49. Pseudaphis abyssinica Hille Rsi Lambers
Record: De Lotto & Nastasi (1955).
50. Rhodobium peresum (Sanderson)
Record: Hill (1966), cited as Macrosiphum (Rhodobium) porosum.
51. Rhopalosiphum maidis (Fitch)
Record: De Lotto (1947), cited as Aphis maidis.
52. Rhopalosiphum padi (Linnaeus)
Record: CIE List No. 9353 (Africa)
53. Schizaphis graminum (Rondani)
Record: De Lotto & Nastasi (1955).
54. Sitobion africanum (Hille Rsi Lambers)
Record: Hill (1966), cited as Macrosiphum (Sitobion) africanum.
55. Sitobion avenae (Fabricius)
Record: De Lotto (1948), Awasa collection.
56. Sitobion nigeriense (Eastop)
Record: Hill (1966), cited as Macrosiphum nigeriensis.
57. Sitobion nigrinectarium (Theobald)
Record: Schmutterer (1971), cited as Macrosiphum nigrinectarium.
58. Therioaphis trifolii forma maculata (Buckton)
Record: Awasa collection.
59. Toxoptera aurantii (Boyer de Fonscolombe)
Record: De Lotto (1948).
60. Toxoptera citricidus (Kirkaldy)
Record: Gentry (1965).

61. Tuberculatus (Tuberculoides) annulatus (Hartig)
Record: Awasa collection.
62. Uroleucon cichorii (Koch)
Record: De Lotto (1949), cited as Dactynotus cichorii.
63. Uroleucon (Uromelan) compositae (Theobald)
Record: De Lotto (1949), cited as Dactynotus vernoniae.
64. Uroleucon (Uromelan) jaceae (Linnaeus)
Record: Gentry (1965), cited as Dactynotus jaceae.

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