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SUPPLEMENT TO "A LIST OF APHIDS
OF NEW YORK." 1961-1966

by

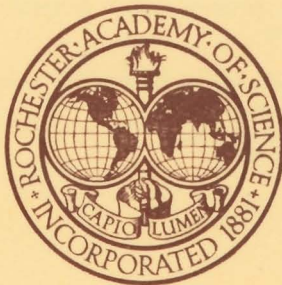
MORTIMER DEMAREST LEONARD, Ph.D.
Washington, D. C.

Notes on Aphid Invasions and Explosions

by

H. LOU GIBSON, FRAS

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A SUPPLEMENT TO
A LIST OF THE APHIDS OF NEW YORK

by

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ACKNOWLEDGMENTS

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Prof. Theodore L. Bissell, Department of Entomology, University of Maryland, College Park, Md.

Dr. V. F. Eastop, British Museum (Natural History), London, England.

Dr. M. E. MacGillivray (MacG in text), Research Station, Canadian Department of Agriculture, Fredericton, New Brunswick, Canada.

Dr. A. Tom Olive (ATO in text) Department of Biology, Wake Forest College, Winston-Salem, N. C.

Prof. John O. Pepper (JOP in text), 413 Ridge Ave., State College, Penna.

Miss Louise M. Russell (LMR in text), Entomology Research Division, ARS, U. S. Department of Agriculture, Washington, D. C.

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Several others who have made only a few determinations are each given credit in the appropriate places in the text.

I acknowledge with many thanks a grant from the Grace H. Griswold Fund of the Department of Entomology, Cornell University to aid in the preparation of the final manuscript of this paper.

INTRODUCTION

The first attempt to present a comprehensive annotated inventory of the aphids known to occur in New York was a paper by the author entitled "A List of the Aphids of New York" (Proceedings of the Rochester Academy of Science, Vol. 10, No. 6:289-428, 1963). In it are given detailed records of the distribution of roughly 350 species of aphids occurring on 700 food plants. These were based on collections and published records through 1960.

This present supplement contains records of all available collections, as far as they have been determined, during the 6-year period of 1961-1966. Some older records are also included. Data is given for 290 aphids specifically determined. There are 9 others determined with a query and still 14 others determined only to the genus*; 80 of the aphids are new to New York. The collections are recorded from 638 plants; 256 of them are new aphid food plants for the State; 91 new genera are involved. It is believed that aphids have never before been recorded from a number of the plants elsewhere.

There are now known to occur in New York a total of over 430 aphids on over 950 plants.

Slides representing most of the collections are deposited in the Cornell University Collection.

An attempt has been made to cite the individual records for each species geographically and chronologically as was done in the 1963 List.

SOURCES OF INFORMATION

The following are those who have made most of the collections upon which this Supplement is based. My sincere thanks are due to each and all of them for the great amount of time and careful effort which, in the aggregate, this work has involved.

Lambert W. All (LWA in text), while a technical assistant to Dr. Pechuman made about 90 collections during 1963 and 1964. These were at or near Ithaca and at his home in Stamford, Delaware County and on nearby Mt. Utsayantha (3212 ft. elev.), an area almost unknown for aphids.

H. Lou Gibson (HLG in text), of the Eastman Kodak Co. at Rochester, and also Editor of these Proceedings, made over 350 collections from 1962 through 1966. These were mostly from the wild flower garden he constructed on a suburban lot at his home in Irondequoit. This includes 10 habitats: desert; field; limey prairie; hedgerow; dry woods;

* There are a number of records from different plants in several genera of aphids, especially *Aphis*, *Dactynotus*, and *Macrosiphum*, which could not be specifically determined. It is not possible to say how many species these may represent so that these are not included in the total number of aphids in this paper.

shaded, mildly acid woods; wet acid, deeply shaded woods; meadow; acid and marl bogs; and marsh. Each habitat is about 60 sq. ft. except the first 4 which are about one-third that area. Over 300 species of wild plants are in this garden. Several were imported as flowers, trees and seeds from other states through nurserymen. There are also three larger beds for the commonly cultivated flowers. Haulm is burnt each year. It is especially revealing to note that in this small area over 70 different species of aphids were collected. Many of these are new to New York, one species has not been collected elsewhere in the state, and one new species was found. Several other collections, involving over 30 plants (most of them new for the state), were made but could not be determined.

Daniel González, Ph.D. (Gonz in text), while a graduate student in the Department of Entomology, Cornell University, collected aphids in yellow water pans (MT in text) at four locations in Oswego County in 1963 and 1964 in connection with a study of the transmission of lettuce mosaic virus. The determination of this large number of winged aphids was by John O. Pepper who was able to name specifically about 70 species, several of which were new to New York. Mr. H. Gilmore Rinard, a graduate student in entomology at Cornell, who had also been collecting aphids in yellow pans (mostly as yet unidentified) has been good enough to further clarify some of the records sent me by González.

This study has been summarized in the following paper: "Aphid sampling efficiency of Moericke traps affected by height and background." by D. González and A. W. Rawlins in [Jour. Econ. Ent. 61(1):114-119, 1968]. Sixty-eight species of aphids in 17 genera were identified. Twenty-eight percent of the total number were *Myzus persicae* (Sulzer), the green peach aphid. The next most common species were *Brevicoryne brassicae* (Linnaeus), the cabbage aphid; *Rhopalosiphum maidis* (Fitch), the corn leaf aphid; and *Brachycolus atriplicis* (Linnaeus), the boat-gall aphid.

George V. Johnson (GVJ in text), Entomology Research Division, ARS U. S. Department of Agriculture, collected on plants at Farmingdale, L. I. and several nearby localities, between 1948 and 1962. During 1960-1963 he and his assistants made many collections at Farmingdale in yellow pans. Mr. Johnson has kindly supplied me with all the data on these many collections. All determinations were made by Louise M. Russell.

Roy Latham (RL in text), the veteran naturalist, continued to collect intensively throughout the 6-year period but in the later years confined his attention more nearly to near his home at Orient, L. I. and to the nearby swamps at Greenport. In this period he made about 2200 collections which brings his grand total up to about 3400 collections. It might be added that his food plants are always authoritatively determined since he is an expert botanist. The year of Mr. Latham's birth is in error in the NYL. It is 1881.

Chris E. Olsen (CFO in text), of West Nyack, continued to do a little collecting locally, as his health permitted, into 1964. He died on May 30, 1965 at the age of 85. His collections of aphids in New York spanned a period of 51 years!

LaVerne L. Pechuman, Ph.D. (LLP in text), also continued to collect. In July 1962 he moved from Lockport to Ithaca to become an Associate Professor and Curator of Insects at Cornell University. He made about 335 collections.

Edwin A. Rundlett (EAR in text), continued to collect on Staten Island through 1963, following which pressure of other matters prevented his continuance. During the 3 years he made over 75 collections from plants and caught at least 1500 alatae in two yellow water pans (MT in text) in his garden. Only a relatively few of these latter have been determined.

George O. Saile, Jr. (GOS in text), of Poughkeepsie, has made several collections, mostly in his home garden, during the past 4 or 5 years. Several of these have proved to be of considerable interest.

F. William Zettler, Ph.D. (Zett in text), while a graduate student in Cornell University, collected winged aphids from sticky black traps set out in kidney bean fields at Ithaca, North Lansing and Canastota during 1964 and 1965. At the same time Raymond Louie and Ann M. Olson, both graduate students in the Department of Plant Pathology at Cornell University, were collecting winged aphids from sticky traps and yellow water pans respectively. Prof. John O. Pepper made determination of the aphids as far as it was possible to do so specifically. For further details on these studies see "Collections of winged aphids from black sticky traps compared with collections from bean leaves and water-pan traps." by Zettler, F. W., Raymond Louie, and Ann M. Olson [Jour. Econ. Ent. 60(1):242-244, Feb. 1967]. Also see: "Winged aphids caught in traps in bean fields in Central New York." by F. W. Zettler [Jour. N. Y. Ent. Soc. 60(5):1320-1323, Oct 1967].

Others. One or two to several collections each have been made by several others. Their names are given in the text in connection with the records of their collections.

RESUME OF ABBREVIATIONS

Abbreviations of Collectors and Determiners

ANT—A. N. Tissot	JOP—J. O. Pepper
ATO—A. T. Olive	LLP—L. L. Pechuman
CEO—C. E. Olsen	LMR—L. M. Russell
CFS—C. F. Smith	LWA—L. W. All
EAR—E. A. Rundlett	MacG—M. E. MacGillivray
Gonz—Daniel González	MDL—M. D. Leonard
GOS—Geo. O. Saile	RL—Roy Latham
GVJ—G. V. Johnson	Zett—F. W. Zettler
HLG—H. Lou Gibson	

Other Abbreviations

CEIR—Cooperative Economic Insect Report	MT—Moericke Trap
CU—Cornell University	NYL—N. Y. List (1963)
LI—Long Island	SI—Staten Island
	USDA—U. S. Dept. Agriculture
USNM—U. S. National Museum	

LIST OF APHIDS*

* An asterisk indicates that the aphid is an addition to the 1963 New York List.

Acyrthosiphon barri (Essig)

see *Acyrthosiphon scarioli* Pass.

Acyrthosiphon dirhodum (Walker)

see *Metapolophium dirhodum* (Walker)

Acyrthosiphon macrosiphum (Wilson) Long-legged Serviceberry Aphid
(Formerly in *Macrosiphum*)

ROCHESTER 26 Oct 1963, 4 "pupae", on *Amelanchier stolonifera* (HLG coll—MDL det with some doubt).

Acyrthosiphon pelargonii (Kaltenbach)

Geranium Aphid

STAMFORD 7 Oct 1963, a number in vial, on *Pelargonium hortorum* (LWA coll). In NYL, Miss Griswold is quoted as saying "*P. hortorum*, the commonest of all geraniums, has never had these aphids on them." DANBY 2 Ju 1964, 3 alatae, 3 apterae, on *Geranium maculatum* (LLP coll).

Acyrthosiphon pisum (Harris)

Pea Aphid

(Formerly in *Macrosiphum*)

ROCHESTER 2 Aug 1963, on *Lathyrus latifolius* (HLG coll—Eastop det). OSWEGO Co. 1964, in MT (Gonz coll—JOP det). LOCKPORT 4 Aug 1960, on sweet pea (LLP coll—ATO det). OSWEGO LAKE 26 Jl 1964, on *Medicago sativa* (LWA coll). NORTH LANSING 15 Ju–7 Jl 1964, 41 alatae and 28 Jl–11 Aug, 86 alatae, in sticky traps (Zett coll—JOP det). ITHACA 28 Ju–16 Aug and CANASTOTA 1 Jl–19 Aug, 52 alatae, all in 1965, in sticky traps (Zett coll—JOP det). LUDLOWVILLE 19 Sept 1964, on *Melilotus alba* (LLP coll).

SI: FIRE ALARM 30 Aug 1961, 1 alata, in MT (EAR coll—ANT det). CASTLETON CORNERS 22 May 1962, in MT (EAR coll—ATO det).

LI: FARMINGDALE 4–13 Oct, 6 alatae and 20 Oct–2 Nov 1960, 2 alatae; 15–22 May, 1 alata and 22–31 May 1961, 3 alatae; 12–16 Aug, 1 alata and 26–30 Aug 1963, 1 alata, all in MT (GVJ coll—LMR det). ORIENT 8 Jl 1961, in flowerheads of red clover (RL coll); 16 Ju 1962, in MT (RL coll—ATO det); 4 Jl 1962, on *Pisum sativum*; 24 Ju and 25 Ju 1964, on *Lathyrus (maritimus) japonica* (RL coll). GREENPORT 3 Jl 1965, on *Vicia cracca* and 17 Jl 1965, on *Trifolium arvense* (RL coll).

Acyrthosiphon (Rhodobium) porosum (Sanderson)

Yellow Rose Aphid

MacGillivray [Ann. Ent. Soc. Am. 61(2): 356, Mar. 1968] states that

Miss Patch misidentified the following records in the NYL as *Macrosiphum pseudodirhodum* and that they refer to *porosum*: ITHACA, Apr., May, Nov., 1926 on rose in greenhouse (Griswold coll).

ROCHESTER 16 JI 1963, on *Rosa carolina* (HLG coll—Eastop det).

LI: ORIENT 6 JI, on *Fragaria virginiana* and 12 JI 1962, 1 aptera, on *Bidens frondosa* (RL coll—LMR det); 21 Oct 1963, 4 apterae, on *Hydrangea hortensis* (RL coll—LMR det with query).

***Acyrtosiphon pseudodirhodum* (Patch)**

Formerly in *Macrosiphum*

MacGillivray [Ann. Ent. Soc. Am. 61(2): 356, 357, Mar. 1968] confirms the determination of the Hansberry record (under *Macrosiphum*) on *Spirea latifolia* in the NYL.

COOXROX FOREST, 12 Aug 1965 (MacG coll and det).

***Acyrtosiphon scarioli* (Nevsky)**

(Formerly *Macrosiphum barri* Essig)

OSWEGO Co 1964, in MT—Farm F, 6 alatae, Farm J, 1 alata (Gonz coll—JOP det).

LI: FARMINGDALE 26–30 Aug, 1 alata, and 3–6 Sept 1963, 2 alatae, in MT (GVJ coll—LMR det). ORIENT 16 Sept 1946, on *Lactuca sativa*; 9 Sept 1961, 9 Sept, 8 Oct 1963, and 22 Sept 1964, on *L. sativa* (RL coll).

In NYL P. 358 is the following note: *Macrosiphum* sp. SI: NEW BRIGHTON 30 Aug 1943, on flowering parts of *Lactuca serriola* var. *integrata* (C. S. Tuthill coll—det Mason) who states, "I have seen this species before on *Lactuca* in the East. It is probably undescribed." This undoubtedly refers to Essig's *barri* which was not described by him until 1949.

Roy Latham wrote me on 22 Feb 1965 from his farm at Orient, LI, as follows about this aphid: "In reference to *Macrosiphum barri*, I again go back to 1963. During that long period of beautiful Indian Summer through October and November this destructive gray-green aphid was at its best here. The garden lettuce was loaded with them on all parts of the plants from the ground to the flowers and seeds. I made several collections that fall. It was one of the species active latest into the season and I think the last one on herbaceous plants that year. The collections of this species in 1964 were of mediocre material and they did not develop wings in as great numbers as they did in 1963. I remember it common in our gardens long before I collected aphids for you." (He started in 1946).

***Acyrtosiphon sibericum* (Mordwilko)**

SI: NEW SPRINGVILLE 18 Nov 1960, apterae, on *Urtica dioica* (EAR coll).

***Acyrtosiphon solani* (Kaltenbach)**

Foxglove Aphid

(Formerly placed in *Myzus* and *Aulacorthum*)

ITHACA 21 Ju 1938, on *Trifolium pratense* in the greenhouse (Griswold

coll). ROCHESTER 16 Nov 1963, on cult *Phlox* sp. (Eastop det); 26 Oct 1963 and 24 Aug 1965, on *Anemone virginiana*; 24 Aug 1965 and 26 Sept 1966, on *Spiranthes cernua* (MacG det); 31 JI 1965, 1 mature aptera, on *Senecio vulgaris* (LMR det); 21 Aug 1965, on *Cypripedium acaule* and *C. candidum* (MDL, LMR det); 1 Oct 1966, on *C. reginae*; 2 Oct 1966, on *C. parviflorum*—(all HIG coll). (None were found on the foxgloves in his garden.)

LI: WANTAUGH 8 Apr 1949, on *Gerbera* sp. (CVJ coll—LMR det). BABYLON 13 May 1949, on Easter lily and May 2 1965, on Easter lily and okra (GVJ coll—LMR det). Farmingdale 9–14 Ju 1961, 1 alata, in MT, (GVJ coll—LMR det). GREENPORT 11 Sept 1963, apterae only, on *Lysimachia terrestris* (RL coll); 9 JI 1961, apterae, in curled leaves of *Rubus frondosus* (RL coll—JOP det). ORIENT 6 JI, on *Viola arvensis*, 13 JI, on *Marrubium vulgare*, 15 JI, on *Erigeron annuus*, 21 JI, on tomato, 14 JI, on leaves and flowers of *Althea rosea*, 14 JI, on leaves of *Molucella laevis*, 23 Nov, a few on *Lamium maculatum* attended by the ant *Prenolepis imparis* (Say) as det by M. R. Smith—all 1961 (RL coll—JOP det); 24 JI 1965, 1 mature aptera, on leaf of *Salpiglossus gloxiniflora*; 27 JI 1965, 2 apterae, on *Lythrum latifolia* (RL coll). ORIENT 27 Nov 1963, 2 mature apterae, on *Digitalis purpurea* (RL coll); 30 Oct 1966, 1 aptera, on China aster (RL coll); 8 JI 1966, 1 aptera, on *Abrus precatorius* (RL coll—MDL det with query).

ORIENT 14 JI 1946, 2 apterae, on *Matricaria suaveolens* (RL coll)—this slide was originally cited in the NYL in error as *Myzus persicae*.

***Amphorophora** sp.

LI: GREENPORT 11 Sept 1963, 1 aptera, on *Lysimachia terrestris* (RL coll).

***?Amphorophora agathonica** (Hottes)

American collections formerly determined as the European Raspberry Aphid, *A. rubi* (Kaltenbach) are now tentatively determined as *A. agathonica* Hottes, which is distinct from *A. rubi*. Data for collections previously determined as *rubi* are as follows: GENEVA 21 JI 1961, on *Rubus strigosus* (R. H. Converse coll—LMR det). NORTH COLLINS 21 JI 1961, on *R. strigosus* (Converse coll—LMR det). FREDONIA 21 JI 1961, on *R. occidentalis* vars. (Converse coll—LMR det). ROCHESTER 1 JI 1962, on *R. strigosus* and 10 Aug 1962, a few on stems of *R. odoratus* (HLG coll—LMR det).

LI: RIVERHEAD 22 JI 1933 on *Rubus* sp. (MDL coll—ANT det); record omitted from NYL. HUNTINGTON 7 JI 1960, on *R. strigosus* (Converse coll—LMR det). GREENPORT 9 JI 1961, on tip of stems of *R. phoenicolasius* (RL coll—JOP det with query).

Amphorophora ampullata Buckton

see *Amphorophora laingi* Mason

Amphorophora crataegi (Monell)

see *Macrosiphum crataegi* (Monell)

Amphorophora laingi Mason

Dr. Hille Ris Lambers believes this should be called *A. ampullata* Buckton.

ROCHESTER 24 Aug 1965, on *Shortia galacifolia* and on *Osmunda cinnamomea* (HLG coll—MacG det with query); LOCKPORT 25 Ju 1966, a heavy infestation with much honey dew, on *Pteretis nodulosa* in a home garden (LLP coll—LMR det).

LI: GREENPORT 3 JI 1965, 1 alata, in curled top of *Onoclea sensibilis* (RL coll).

Amphorophora rossi Hottes & Frison

LI: GREENPORT 30 Ju 1962, 9 JI 1963 and RIVERHEAD 4 JI 1963, on *Geum canadense* (RL coll). ORIENT 5 JI 1966, on *G. virginianum* (RL coll).

Amphorophora sensoriata Mason

LI: RIVERHEAD 22 JI 1933, on *Rubus* sp. (MDL coll—ANT det); record omitted from NYL.

Amphorophora sonchi (Oestlund)

see *Nasonovia lactucae* (L.)

Anoecia corni (Fabricius)

OSWEGO Co 4 Sept 1964, alatae, in MT (Gonz coll—JPO det). ROCHESTER 9, 16 Oct 1966, many alatae and young, on *Cornus stolonifera* (HLG coll). ITHACA 12 Ju—16 Aug 1965, 5 alatae, in sticky traps (Zett coll—JOP det). NORTH LANSING 9 Ju—16 Aug 1965, 3 alatae and CANASTOTA 1 JI—19 Aug 1965, 2 alatae, in sticky traps (Zett coll—JOP det). LUDLOWVILLE 9 Sept 1966, on *C. rugosa* (LLP coll).

SI: CASTLETON CORNERS 16 Nov 1961, 3 alatae, from laundry on the line (EAR coll).

LI: GREENPORT 20 Oct 1962, on *C. amomum* (RL coll). ORIENT 18 Oct 1961, on *C. florida*; 2 Nov 1961, many alatae with many small young, on *C. amomum* attended by the ant *Prenolepis imparis* (Say) as determined by D. R. Smith; 20 Sept, 8, 20 Oct 1963, 20 Oct 1964, 2 alatae in flight, and 13 Sept 1965, on *C. amomum*, many alatae in each coll and many small pale young (RL coll).

***Anoecia oenotherae** Wilson

SI: FIRE HOUSE, 1 alata, in MT 18 Sept 1961 (EAR coll—ANT det).

Anoecia querci Fitch

OSWEGO Co 4 Sept 1964, alata, in MT (Gonz coll—JOP det); OSWEGO 14 Oct 1966, 1 alata accidental, on alfalfa (A. G. Wheeler coll). ITHACA 12 Ju-16 Aug 1965, 1 alata, in sticky trap (Zett coll—JOP det).

SI: FIRE HOUSE 12 Sept 1961, 1 alata, in MT (EAR coll—ANT det).

LI: ORIENT 24 Sept 1961, on roots of *Eleusine indica* (RL coll)

***Anoecia setariae** Gillette & Palmer

NORTH LANSING 14 J1-17 Aug 1964, 33 alatae and ITHACA 9 Ju-16 Aug 1965, 24 alatae, all in sticky traps, (Zett coll—JOP det).

Anuraphis bakeri (Cowen)

see *Nearctaphis bakeri* (Cowen).

Anuraphis carotae (Kösch)

see *Semiaphis dauci* (Passerini).

Anuraphis helichrysi (Kaltenbach)

see *Brachycaudus helichrysi* (Kaltenbach).

Anuraphis maidiradicis (Forbes)

see *Brachycaudus maidiradicis* (Forbes).

Anuraphis menthaeradicis (Cowen)

see *Brachycaudus menthaeradicis* (Cowen).

Anuraphis middletoni (Thomas)

see *Brachycaudus middletoni* (Thomas).

Anuraphis rumexicolens (Patch)

see *Brachycaudus rumexicolens* (Patch).

Aphis spp.

For the following collections it has not been possible to determine the aphids specifically. The records are included, however, since in almost every case no *Aphis* has been specifically recorded elsewhere in this paper on these plants:

WEST NYACK 10 Oct 1960, apterae and alatae, on *Eupatorium coelestinum* forma *album* (Olsen coll); this record was omitted from the text of the NYL but is in its food plant list. BEDFORD LAKE PARK, near Mt. KISCO, 11 Aug 1960, apterae, on *Impatiens capensis* (Graham coll). ROCHESTER 1 J1 1962, on *Phlox pilosa* and *Epilobium angustifolium*; 23

Jl 1962, many alatae, apterae, on *Prunus salicina*; 31 Jl 1965, about 20 apterae, on *Cyripedium reginae* and *C. candidum*; 26 Sept 1966, on *C. reginae* (all HLG coll). ITHACA 13 Sept 1963, a few apterae, on *Epipactus (Serapius helleborine) latifolia* (F. M. Raffensperger coll).

LI: RIVERHEAD 27 Oct 1949, on *Sisymbrium officinale* (RL coll)—in NYL food plant list but aphid not in text. ORIENT 19 Ju 1947, apterae, alatae, on *Steironema (Lysimachia) ciliatum*, (RL coll)—in NYL food plant list but aphid not in text; 14 Aug 1959, on *Veronica longifolia* (RL coll)—in NYL food plant list but aphid not in text; 31 Sept on *Amaranthus caudatus*, 10 Jl, apterae common, on underside of leaves of *Lysimachia clethroides*; 5 Jl, on terminals of *Crataegus oxycantha* (all 1962 RL coll—MacG det); 23 Ju 1964, on *Sanicula marilandica*, 2 Jl 1962, apterae, alatae, on curled tops of *Atriplex arenaria*, 17 Oct 1963, on leaves and stems of *Galinsoga parviflora*, 20 Jl 1963, on *Erigeron canadensis* (MacG det), 31 Jl 1965, apterae, on *Helianthus annuus*, 23 Oct 1965, on *Foeniculum vulgare*, 10 Jl 1962, apterae, on underside of leaves of *Lysimachia clethroides*, 13 Oct 1965, many on caraway, 1 Aug 1965, on *Mollugo verticillata*, 12 Ju 1963, on *Agrostis tenuis*, on leaves and stems; 17 Oct 1963, alatae, apterae on *Galinsoga parviflora* (MacG det); 7, 14 Jl 1966 on *Centranthus ruber*, 8 Jl 1966, on *Lysimachia clethroides*, 28 Oct 1966, 1 aptera on *Venidium fastuosum*, 8 Jl 1966 on *Abrus precatorius*—all RL coll. GREENPORT 25 Jl 1948, on *Alisma plantago-aquatica*, 7 Jl 1962, on *Veratrum viride*, 10 Jl 1963, apterae, on *Veronia noveboracensis*, 7 Jl 1963, many, on *Celastrus scandens*; 7 Jl 1963, many apterae and a few alatae, on *Aster divaricata* (MacG det)—all RL coll.

Aphis amoraciae Cowen

Western Aster Root Aphid

LI: ORIENT 2 Aug 1963 several "green" apterae, on roots of *Helianthus tuberosus* (RL coll); 2 Aug 1963, aptera, on *Erigeron canadensis* (RL coll—MacG det with query).

Aphis asclepiadis Fitch

ROCHESTER 5 Jl 1963, many, on *Asclepias syriaca* (HLG coll). OSWEGO Co 28 Aug 1964, alata, in MT (Gonz—JOP).

LI: PECONIC 20 Jl, on *A. syriaca*, EAST MARION 7 Jl on *A. syriaca*; GREENPORT 9 Jl, on *A. syriaca* and *Apocynum cannabinum* and ORIENT 11 Jl 1961, on top leaves of *A. c.* var. *pubescens* (all 1961 RL coll—JOP det); 13 Sept 1962, on *Asclepias pulchra*, 6 Jl 1965, on *Apocynum cannabinum* (RL coll). SOUTHOLD 25 Ju 1963, on *A. cannabinum* (RL coll).

Aphis asterensis Gillette & Palmer

Little Black-veined Aster Aphid

LI: ORIENT 22 Oct 1963, 2 stray alatae, on *Rubus alleghiensis* (RL coll).

Aphis bakeri Cowen

see *Nearctaphis bakeri* Cowen

Aphis cephalanthi Thomas

MEREDITH 21 JI 1963, on *Cephalanthus* sp. (LLP coll—MacG det). BLOODY POND, CORTLAND Co, 17 Aug 1965, on *C. occidentalis*, a number of alatae and apterae (LLP coll).

LI: SOUTHOLD 9 JI 1961 and GREENPORT 9 JI 1961, 24 Ju 1962, 10 JI 1963, 6 JI, 24 Sept 1964, on *C. occidentalis* (RL coll).

Aphis coreopsidis (Thomas)

ITHACA 9 Ju 1939, on *Coreopsis lanceolata* (Hansberry coll). SLATERVILLE, Wild Flower Preserve, 14 Sept 1963, on *Bidens cernua* (LWA coll). NORTH LANSING 15 JI-7 Aug 1964, 1 alata, in MT (Zett coll—JOP det).

LI: FARMINGDALE 22-31 May, 1 alatae, and 26 Ju-4 JI 1961, 1 alatae, in MT (GVJ coll—LMR det). GREENPORT 24 Ju 1962, on *Baccharis halmifolia*, 13 Sept 1962, on *Bidens discoidea* common on whole top of plants, 23 Ju, 25 JI, 26 Sept, 1963; and 19 JI, 26 Aug 1964, on *Nyssa sylvatica*, 4 Aug 1965, on *Baccharis halmifolia*. ORIENT 20 Ju, on *Nyssa sylvatica* and Sept 1961, on *Bidens vulgata*, 7, 15 JI, on *Baccharis halmifolia*, 12 JI, 15 Aug 1962, on *Bidens frondosa*, 29 JI attended by the ant *Prenolepis imparis* (Say). 3, 27 JI 1965, 3 JI 1966, on *Baccharis halmifolia*—(all LI, RL coll).

***Aphis craccae** Linnaeus

CROWN POINT, ESSEX Co. 21 Aug 1966, on *Vicia cracca* (LMR coll and det). WELLESLEY ISLAND, JEFFERSON Co., 31 Aug, 1 Sept 1966, on *Vicia* sp. (LLP coll—LMR det); densely clustered on the terminal growth, principally on the stems but with a few on leaves and seed pods; the majority of the specimens in the collections were oviparous females but a few males and viviparous females were present.

For a fuller account see "*Aphis craccae* Linnaeus, an aphid newly discovered in the United States." by Louise M. Russell [CEIR 16(43):1021-1923, Oct 28, 1966].

Aphis craccivora Koch

Cowpea Aphid

OSWEGO Co 3, 10 JI, 21, 28 Aug, 4 Sept 1964, alatae, in MT (Gonz coll—JOP det). ROCHESTER 13 Aug 1965, very abundant and wilting tips of *Robinia pseudoacacia* and 16 Oct 1965, a few on *Hibiscus palustris* (HLG coll). ITHACA 3 JI 1963, many apterae, on *Robinia pseudoacacia* (LWA coll) and 22 JI 1966 (LLP & Teskey); 29 Aug 1962, on alfalfa (L R Nault coll—CFS det).

Smith writes of the Nault collection: "Dr. Eastop of the BM checked this material on alfalfa and thinks it is the same as *Aphis craccivora* simply being a hot weather form; however, he stated that it looks quite different to him and he would like a large series of specimens including winged forms if at all possible."

ITHACA: "We sampled 100 alfalfa plants from plots of DuPuits, Vernal, and Kansas varieties each week during the summer of 1966. This black aphid was never abundant and not a problem in the field but was found during the entire summer and early fall. Our first record of the aphid is on 20 June and the last is a single specimen on 13 November. A few specimens were taken each week during October. Few alates were ever seen. On alfalfa in the greenhouse the aphid did quite well and was a definite problem. At times the stems became heavily covered." (A G Wheeler, Jr. and J T Hayes, Department of Entomology, Cornell University).

NORTH LANSING 19 Aug 1965, on *Robinia pseudoacacia* (LWA coll). PORTLAND POINT, LUDLOWVILLE, 6 Sept 1965, on *Kochia scoparia* (LLP coll). NORTH LANSING 15 J1-7 Aug 1964, 4 alatae from sticky traps (Zett coll—JOP det). WESTPORT 19 J1 1963, apterae, on *Vicia* sp. (LLP coll). WEST NYACK early J1 1963, many on stems of a large *Laburnum anagyroides* (Olsen coll—LMR det). POUGHKEEPSIE 11 J1 1965, 27 Ju 1966, many apterae, several alatae, on *Wistaria* sp. (GOS coll).

LI: FARMINGDALE 1-9 Ju (1), 1-9, 16-23 Aug, 1 each, 6-20 Oct (1) 1961, in MTs (GVJ coll—LMR det). SOUTHOLD, on *Robinia pseudoacacia*, very common on a small tree in a swamp; 20 J1, on tips of twigs of *R. hispida* 1961 (JOP det). PECONIC 20 J1, common on stems and flowers of lima beans; 28 J1, on *R. pseudoacacia*; 28 J1, on *Oenothera biennis* 1961 (JOP det). MATTITICK 23, 28 J1 1961, on *Verbascum blattaria* (JOP det). GREENPORT 23 J1 1961 and 7 J1 1962, on *Wistaria floribunda*; 12 J1, on *Robinia viscosa*; 28 Ju, on *Chenopodium album* (MacG det), 10 J1, 20-30, apterae, from *Acorus calamus* (MacG det), 20 J1, on *Portulacca oleracea* (MacG det)—all 1963. ORIENT: 5 J1 common and with alatae included, on *R. pseudoacacia*; 12 J1, on new shoots and tips of vines of *Wistaria floribunda*; 29 J1, on a gourd, *Curcubita ficolia*, common on underside of leaves and 10 Oct, on *Robinia viscosa*—all 1961 (JOP det); 3 J1, on *R. pseudoacacia*, 10 Ju, on *R. viscosa*, 13 J1 many apterae, alatae, on *R. hispida* and 17 J1, on tendrils and petioles of *Wistaria floribunda*—all 1962; 2 J1, on *Robinia pseudoacacia*, 21 Ju, apterae, on *Mirabilis jalapa*, 1963; 3 J1 on *Robinia pseudoacacia*, 6 Aug, on *R. viscosa*, 10 J1, on lima beans, 7 J1, on *Wistaria floribunda*, 29 Ju, on *W. sinensis* 1965; 10 J1, on *Portulacca oleracea*, 3, 14, 16 J1 1966, on *Lepidium virginianum* and *Chenopodium album*, 13 Aug 1966, on *Hibiscus esculentus*—all LI except FARMINGDALE are RL coll.

Aphis crataegifoliae Fitch

see *Brachycaudus crataegifoliae* Fitch

Aphis fabae Scopoli

Bean Aphid

Following is a list of the 47 food plants of the bean aphid recorded in this paper. Of these, 31 plants (*) were not mentioned at all in the NYL nor were 12 of their genera (**). Of the plants, 29 have not been previously recorded for *A. fabae* in New York. *A. fabae* has been collected on only 16 of the plants more than once. The numeral in parenthesis preceding the plant name indicates the number of collections from that plant.

***Albizzia julibrissin* (mimosa), **Amaranthus caudata*, **A. graceizans*, **A. retroflexus*, (*) *Arctium minus* (common burdock), **Atriplex arenaria*, *A. patula* **Beta saccharifera* (sugar beet), *B. vulgaris* (common beet), ***Borago officinalis* (borage), (9) *Calendula officinalis* (pot marigold), **Calycanthus florida*, *Capsella bursa-pastoris* (shepherd's purse), *Celastrus orbiculata*, (6) *C. scandens*, ***Celosia argenticristata*, ** (2) *Celtis occidentalis* (hackberry), ***Centranthus ruber*, (8) *Chenopodium album* (lambsquarters), *C. ambrosioides* (Mexican-tea), **C. hybridum* (maple-leaved goosefoot), *Cirsium arvense* (Canada thistle), (2) *Cynara cardunculus* (cardoon), **Dahlia juarezi*, (2) *Dahlia pinnata*, ** (2) *Digitalis purpurea* (foxglove), *Euonymus* sp. * (2) *E. elatus* (4) *E. europaeus*, **Eupatorium perfoliatum* (boneset), (2) *Fagopyrum sagittatum* (buckwheat), ***Gaillardia (aristosa) pulchella* (blanketflower), * (5) *Galium aparine* (cleavers), ***Hosta ventricosa* (funkia), *Ligusticum scoticum* (Scotch lovage), ***Linum grandiflorum* (flowering flax), * (2) *Lychnis alba* (white cockle), **Matricaria inodora* (scentless mayweed), *M. matricarioides (suaveolens)* (pineappleweed), (2) *Osmorhiza claytoni* (sweet jarvil), *O. longistylus* (anis root), **Papaver rhoeas* "strain" (Shirley poppy), (2) *Phaseolus coccineus* (scarlet runner), *Philadelphus coronarius* (mockorange), *Polianthes tuberosa* (tuberose), ***Portulacca oleracea* (common purselane), *Rheum rhaponticum* (rhubarb), ***Salvia officinalis* (garden sage), *Sium suave* (water parsnip), **Sonchus oleraceus* (sow-thistle), **Stellaria jamesiana*, (3) *Tropaeolum majus* (common nasturtium), **Urtica procera* (nettle), ***Verbesina encelioides* (golden crown-beard), **Viburnum acerifolium* (mapleleaved viburnum), **Vicia faba* (broad bean), ** (2) *Wistaria floribunda*.

Detailed records of **Aphis fabae** are as follows:

OSWEGO Co alatae, in MTs, J1 3-6, 10; 21, 28 Aug, 4 Sept 1964 (Gonz coll—JOB det). ROCHESTER 1 J1 1962, apterae, on *Albizzia julibrissin* (HLG coll); 11 Nov 1963, on *Petunia* sp. (HLG coll—Eastop det); 30 Oct 1966 on *Euonymus europaeus* (HLG coll) 16 Nov 1963, alatae and oviparae, on *Phlox* cult (IILG coll—Eastop det with query). MARYLAND 7 Sept 1963, on *Chenopodium album* (LWA coll). CANASTOTA 3 Sept 1963, a large collection from sugar beets (Muka coll—JOP det). CAYUGA Co 15 Oct 1965, on sugar beets (? coll—CFS det). ROCHESTER 26 Sept 1965 and 1 Oct 1966, on *Calycanthus florida* (HLG coll—MDL det); Gibson notes: "This is the first year (1965) I have seen aphids on this bush."

LUDLOWVILLE 18 Aug 1964, on *Urtica (procera) gracilis*, "very abundant on one plant in a large patch of this nettle" (LLP coll—MacG det); 21 Aug, on *Amaranthus retroflexus* (LLP coll). ITHACA 20 J1 1962 (? coll—CFS det); Sept 1934, on *Polianthes tuberosa* (MDL) — plant omitted from Plant List in NYL.; 7 Ju 1963, on *Euonymus* sp. (LLP coll); 7 J1 on *E. alatus* and 1 J1 1963, on *Arctium minus* (LWA coll); 19 Aug 1965, on *Chenopodium album* (Zett coll—JOP det).

SI: CASTLETON CORNERS 4 Aug 1962, on cult nasturtiums (EAR).

LI: LAUREL 1 J1 1961, on *Euonymus europaeus*; BAY VIEW 8 Oct 1961, apterae, on *Chenopodium album*; SOUTHDOLD 27 Ju, on *Celastrus scandens* and *Galium aparine* and 27 Ju 1961, on *Papaver rhoeas* "strain" of Shirley poppy; 19 J1 1962, on *Portulacca oleracea*. GREENPORT 2 J1 1961, on tender shoots of *Viburnum venosum*; 7 J1 1961 'black with alatae on upper stems of *Lychnis alba*;' 26 May 1963, on *Euonymus europaeus*; 19 Aug 1962, on *Calendula officinalis*; 19 Ju 1964, on *Capsella bursa-pastoris*; 23 J1 1961, on stem of *Digitalis purpureus* (JOB det); 11 J1 1962, 1 J1 1963, on *Arctium minus*; 9 J1 1961, on *Viburnum acerifolium*; 1 Ju, on stems of *Galium aparine*; 1 J1 1962, 7 J1 1963, on *Celastrus scandens*; 10 J1 1962, on *Sium suave*; 17 J1 1962, on *Calendula officinalis*. EAST MARION 26 Oct 1963, on *Arctium minus*. ORIENT 1 J1, "common on tips of vines" of *Celastrus scandens*; 4 J1, "on whole top of plants of *Chenopodium album*"; 7 J1, on tops of *Digitalis purpurea*; 7 J1 apterae, alatae in tops of *Arctium minus*; 10 J1 a few apterae, on *Atriplex arenaria*; 15 J1, on *Chenopodium hybridum* "whole top of plants infested"; 22 J1, on *Amaranthus caudatus* "in clusters underside of leaves"; 30 J1, on *Ligusticum scothicum* "top of plants and in flowers"; Oct, on *Chenopodium album*; 26 Ju, on *Euonymus europaeus* and *Lychnis alba*; 19 J1, on *Linum grandiflorum* (VF Eastop det)—all of foregoing in 1961; 18 J1, on *Matricaria matricarioides*; 20 Oct, on *Ligusticum scothicum* "on dry seed caps and petioles"; 20 Ju, on rhubarb; 5 J1 apterae, on *Salvia officinalis*; 23 J1, on *Osmorhiza longistylus* (MacG det with query)—all in 1962; 9 May, 5 Nov, on *Euonymus europaeus*; 20 Aug, 25 Nov, on *Tropaeolum majus*; 18 J1, 28 Sept, on *Calendula officinalis*; 21 Ju "whole plant infested" and 17 Oct, on buckwheat; 27 Sept, on *Ligusticum scothicum*; 17 Ju, on *Calendula officinalis*; 23 Nov, on *Cynara cardunculus*; 13 Ju, on *Euonymus alatus*; 28 Ju, on *Vicia faba* (LMR det); 13 J1, on *Borago officinalis* (MacG det with query); 12 Oct several alatae, apterae, on *Chenopodium ambrosioides*; and 5 Ju 1963, on *Thalictrum revolutum* (MacG det with query); 21 Ju, on "runners" of *Phaseolus coccineus*; 9 Nov apterae, on *Gaillardia (aristosa) pulchella*; 1 J1 alatae and many apterae, on *Sonchus arvensis*; 10 Sept, on *Cynara cardunculus*—all 1963; 17 J1, on *Celtis occidentalis*; 10 Ju, on *Beta saccharifera*; 6 Ju, on *Philadelphus coronarius*; 29 Aug, on *Centranthus ruber*; 8 Ju, on *Galium aparine*; 9, 20 Aug, on *Calendula officinalis*; 3 Sept, on *Ligusticum scothicum*; 24 Ju, on *Matri-*

caria inodora; 29 Ju, on *Dahlis juarezi*, many apterae; 14 Aug, on *D. pinnata*; —all 1964; 31 Jl, on *Atriplex patula*; 18 May, on *Celastrus orbiculata*; 16 Ju, on peioles of *Osmorhiza longistylus*, attended by the ant *Crematogaster lineolata* (Say): 5 Jl, 6 Aug, common on stems of *Arctium minus*, attended by the ant, *C. lineolata*; 8 Jl, on *Dahlis pinnata*; 16 Jl, on *Phaseolus coccineus*; 23 Jl, on *Centranthus ruber* (aphid det with query; 15 Oct, on *Eupatorium perfoliatum*—all 1965; 9 Jl a number of apterae, on *Stellaria jamesiana*; 1 Jl same, on *Verbesina encelioides*; 7 Ju, many on *Celastrus orbiculata*; 7 Jl, on *Arctium minus* and many, on *Dahlis pinnata*; 19 Jl, on *Hosta ventricosa (coerulea)*, 2 immatures; 14 Jl, on *Centaurea americana*; 5 Jl, on *Celastrus scandens*, many apterae; 26 Jl, on *Amaranthus graceizans*—all 1966; all RL coll.

Aphis fabae group

LI: ORIENT 10 Jl 1961, on *Celosia argentia* var. *cristata* (RL coll—JOP det). FARMINGDALE 1960, in MTS—(numbers in parens indicate number of alatae—18–25 Jl (8), 28 Jl–2 Aug (1), 8–15 Aug (3), 15–22 Aug (4), 22–29 Aug (2), 29 Aug–8 Sept (8), 21–28 Sept (1), 28 Sept–4 Oct (1), 4–13 Oct (2)—(all GVJ coll—LMR det).

Aphis farinosa (Gmelin) Green and Pink Willow Aphid Formerly *Aphis saliceti* Kaltenbach

ITHACA (SIX-MILE CREEK) 13 Jl 1963 many apterae on *Salix* sp. (LWA coll).

LI: GREENPORT Ju 30 1962, 9 apterae collected from *Salix discolor* “a green aphid on terminals” (RL coll—MacG det).

Aphis feminea Hottes Red and Black Cherry Aphid

LI: 18 Aug 1964 apterae on *Prunus serotina* (RL coll).

Aphis folsomii Davis

ROCHESTER 18 Sept 1966 a single colony of apterae, on stem of new shoot of *Parthenocissus quinquefolia* (HLG coll).

LI: ORIEN 9 Oct 1961 a few alatae, apterae, on *P. quinquefolia* and 28 Oct 1961 and 10 Sept 1965, on *P. tricuspidata* (RL coll).

Aphis forbesi Weed Strawberry Root Aphid

LI: ORIENT 6 Jl 1962, on *Fragaria virginiana* (RL coll—MacG, LMR det).

* ? **Aphis frangulae** Kaltenbach

LI: ORIENT 10 Jl 1962 apterae, on *Lysimachia clethroides* (RL coll—MacG det with query).

***Aphis gerardiae** Thomas

LI: GREENPORT 23 Aug 1964 and 11 Aug 1965, on *Gerardia* (*Aureolaria*) *flava* (RL coll—LMR det).

Aphis gossypii Glover

Cotton or Melon Aphid

Aphis circeazandis Fitch n. sp. in 13th Rept. pp. 501–502, 1870.

About this species Fitch here writes "Many years ago, upon the sweet, liquorice-flavored leaves of the *Galium circaezans* I met with an interesting aphid. It occupied the underside of the leaves, and by its punctures it caused each side of the leaf to turn backwards until it became doubled together resembling a pod, with the aphids enclosed inside, as if they represented the seeds in the pods. This was the middle of June."

Regarding Fitch's species, A. C. Baker [Proc. Ent. Soc. Wash. (20) ; 130–131, 1918] states "11 June 1952 Fitch collected 5 specimens in 'DUGWAY WOODS' SALEM . . . this name appears to be a synonym of *gossypii* Glover." If Baker's synonym was correct (and Miss Russell tells me it is) Fitch's collection is, of course, an earlier one for *gossypii* since Glover did not describe *gossypii* until 1877.

The next earliest record of *A. gossypii*, named as such, in NEW YORK appears to be the collection at FREDONIA 25 J1 1905 by Hayhurst on "cantaloupe vines" (ANT det). Following this is CENTRAL PARK, NYC 2 J1 1909, on *Capsella bursa-pastoris* [Gillette coll—Jour. Econ. Ent. (3), 5:404, 1910]. Olsen records it from MASPETH, L. I. 26 Oct 1914, on *Hibiscus syriacus*. The next available records are in 1918 from NYACK 25 J1, on okra and FLUSHING, L. I. 18 J1 1918, on tomato and cucumber and FAR ROCKAWAY, L. I. Sept "cucumbers utterly destroyed" (Chittenden in USDA's Insect Pest Survey records).

During the 1920's and 1930's, there are a number of records of the occurrence of this aphid usually of its injuries to various vegetables and ornamentals on LONG ISLAND and other parts of the State in the files of USDA's Insect Pest Survey.

In this supplement *A. gossypii* is recorded from 29 plants. Of these 17 are new for *gossypii* in New York and 3 of their genera are new. For ready reference the plants are here listed in alphabetical order by botanical names. Those new for *gossypii* in NY are marked with an asterisk. Only 3 of them have been collected on more than once; the number of times is indicated by a numeral in parens.

**Amaranthus deflexus*, **Anagallis arvensis*, **Althaea rosea* (hollyhock), **Aquilegia vulgaris* (European columbine), **Boehmeria cylindrica*, *Catalpa bignonioides*, *Centranthus ruber*, *Citrullis vulgaris* (watermelon), *Cucumis melo cantaloupensis* (cantaloupe), *C. sativa* (cucumber), **Curcubita ficola* (a gourd), *C. maxima* (squash), *C. moschata* (cushaw), *Daucus carota*, **Dodecatheon meadea*, *Eupatorium purpureum*, **Galium aparine*, **G. circaezans*, **Gnaphalium polycephalum*, *Gossypium obtusifolium* (oriental cotton), (4) *Hibiscus esculentus* (okra), (3) *H. syriacus* (rose-of-sharon), **Impatiens balsamina*, **Lepidium virginicum*, *Martynia louisiana* (devil's claws), *Papaver somniferum* (common poppy), *Phaseolus lunatus* (lima bean), **Portulacca oleracea*, **Saxifraga philadelphicum*, *Scutellaria* sp., **Senecio aureus* (common groundsel), **Trollius* sp. (globeflower).

Detailed records, other than the early ones follow:

OSWEGO Co alatae, in MTs, 3, 10 J1; 21, 28 Aug; 4 Sept 1964 (Gonz

coll—JOP det). ROCHESTER 1 Jl 1962, on *Saxifraga philadelphicum* and *Dodecatheon meadea* (HLG coll); 21 Jl 1962, on *Trollius* sp., many on underside of leaves and 31 Jl 1965, apterae, on *Anagallis arvensis* (HLG coll); LUDLOWVILLE 31 May 1964, on *Senecio aurea* (LLP coll). HARRISON 28 Nov 1966, many on *Catalpa* sp. (W. T. Johnson coll).

SI: FIRE ALARM 30 Aug 1961, 4 alatae, in MT (EAR coll); CLOVE LAKES PARK 7 Sept 1961, on *Catalpa bignonioides* (EAR coll).

LI: FARMINGDALE 21–31 May (1), 1–9 (2), 9–14 (1) and 14–20 Ju (5), 29 Oct–3 Nov (1) 1961; 25–29 Jl (1), 12–16 (1), 26–30 Aug (1), 30 Aug–3 Sept (1), 6–9 Sept (1) 1963—all of these are from MTs and numbers in parens indicate number of alatae collected (GVJ coll—LMR det.) SAG HARBOR 9 Sept 1946, a number of apterae, on *Gnaphalium polycephalum* 2 Ju 1949, on *Papaver somniferum* and ORIENT 20 1959, on *Martynia louisiana* (RL coll—omitted from NYL). ORIENT 26 Jl apterae, alatae, on *Lepidium virginicum*; 7 Jl a few, in ends of new growth if *Hibiscus syriacus*; 8 Jl, on *Impatiens balsamina* underside of leaves; 14 Jl, on leaves and in flowers of *Althea rosea*; 19 Jl alatae, on *Gossypium obtusifolium* (? accidental); 29 Jl, on *Curcubita ficola*; 20 Jl, common on lima beans; 6 Jl, on *Mentha rotundifolia*—all 1961; 20 Jl, a number on *Galium aparine* and 18 Oct 1962, on *Hibiscus esculentus*; 11 Aug, on watermelon and cucumber; 17 Ju, on *Hibiscus syriaca* and 19 Oct 1963 alatae, on *Passiflora incarnata* (may be accidental on this although Hall records *gossypii* on this plant in Egypt); 8 Aug 1964, on okra; 31 Jl many, on *Portulacca oleracea*; 5 Aug apterae, on *Aquilegia vulgaris*; 6 Jl, on *Cucurbita maxima*; 31 Jl alatae, apterae, on *C. moschata*; 31 Jl, on okra and a few apterae on *Amaranthus deflexus*; 3 Aug a few apterae, on *Centranthus ruber*; 7 Ju, alatae, apterae, on *Galium aparine*—all 1965 (RL coll); 25 Jl 1966, on *Cucurbita moschata* (RL coll); MATTITUCK 28 Jl 1961, on *Aquilegia canadensis*; GREENPORT 17 Jl 1962, on *Boehmeria cylindrica*, alatae, apterae, “in curled top of plant” (LMR det). RAY VIEW 17 Ju 1962, on *Hibiscus syriaca*; SOUTHOLD 17 Sept, on okra and 7 Jl 1962, on *H. syriaca*; GREENPORT 17 Jl, on *Daucus carota* and 7 Jl 1962, 6 apterae, 2 alatae, on *Scutellaria* sp.; 13 Oct 1966, on *Eupatorium purpureum*—(all the foregoing RL coll).

Aphis hederæ Kalténbach

Ivy Aphid

Formerly identified in USA as *pseudohederæ*

Theobald

All collections on *Hedera helix*. ITHACA 25 Oct 1965, many (E. M. Raphensperger coll). POUGHKEEPSIE 21 Oct 1961, a few (MDL coll); 25 Dec 1964, a number of alatae, apterae (MDL, DDL and GOS coll); 24 Nov 1966 (GOS coll).

LI: FARMINGDALE 12 Mar 1958 (GVJ coll LMR det). EAST MARION

24 Oct 1963 (RL). ORIENT 1 Oct, 23 Nov 1961; 6 May, 16 Sept 1962; 11 Oct 1963; 28 Oct 1964; 22 Sept 1965; 6 Nov 1966 (all RL coll).

This Supplement is based on records of aphids collected only through 1966. However, Dr. L. L. Pechuman observed what I believe to be an unprecedented "outbreak" of the ivy aphid and I am making an exception in order to put this occurrence on record. This aphid is almost always found in relatively small numbers on only the tender terminal tips of English ivy and in the late fall. The only exception of which I know as to its more abundant occurrence is in Delaware where P. P. Burbutis observed it as abundant throughout the NEWARK area on new terminals in Nov and Dec 1966. (Del. Agr. Exp. Sta. Tech. Bull. 363:6, 1967).

On 18 May 1967, a neighbor of Dr. Pechuman's in LUDLOWVILLE phoned to say that quantities of small black insects were crawling on the outside of his house. Upon examination, these proved to be the ivy aphid. The infestation came from ivy on a brick chimney outside of the house and extended the height of the chimney—about 25 feet. Dr. Pechuman believes the infestation must have been present for some time before he saw it. It lasted to mid-June when it tapered off. The aphids caused yellowing and distortion of the leaves; terminal growth was covered solidly with the aphids; many aphids seemed to be stuck in their own honey dew. In addition to many aphids leaving the ivy and crawling on the outside of the house, many moved to dandelions at the base of the chimney where they were attended by the ant, *Formica fusca* L. (det Merle Wing). Parasitism was not heavy but many *Lysephlebius testaceipes* were flying around and some were reared. Some hyperparasites were obtained but were not determined. A couple of species of Syrphid flies were noticed ovipositing and there were many Syrphid eggs and larvae. Some of the pupae were parasitized. Many larvae, pupae and adults of *Adalia bipunctata* were present. (Messrs. A. G. Wheeler and J. T. Hayes, Dept. Ent., Cornell University, made the observations on ants, parasites and predators.)

Aphis helianthi Monell

OSWEGO Co 3, 10 Jl, 21, 28 Aug, 4 Sept 1964 alatae, in MT (Gonz coll—JOP det).

SI: CASTLETON CORNERS 6 Sept 1961, on *Helianthus gigantea* (EAR coll).

LI: FARMINGDALE 4-10 Jl 1961, 2 alatae, in MT (GVJ coll—LMR det). GREENPORT 2 Jl 1961, on *Heracleum lanatum*, very common in seed heads (RL coll—CFS det). ORIENT 6 Jl 1961, in flower heads of *Asclepias syriaca* (RL coll—CFS det as "close to *helianthi*"); 19 Jl 1961, apterae, on *Yucca filamentosa* (RL coll—CFS det).

Aphis heraclella Davis

LI: GREENPORT 2 Jl 1961 very common, on *Heraclella lanatum* (RL coll—JOP det). ORIENT 16 Ju 1966, a number of apterae, alatae, on *H. lanatum* (RL coll).

Aphis illinoisensis Shimer

Grapevine Aphid

LI: GREENPORT 23 Jl 1961, on *Vitis bicolor* tip of one vine only (RL coll—JOP det). ORIENT 27 Ju 1962, 18 Jl 1963, on cult grape (RL coll).

Aphis impatientis Thomas

SI: CLOVE LAKES PARK 31 Aug 1961, 17 J1 1962, on *Impatiens capensis* (EAR coll).

LI: Greenport 21 J1, 11, 27 Aug 1963, on *I. capensis* (RL coll).

Aphis maculatae Oestlund

OSWEGO Co 10 J1 1964, an alata, in MT (Gonz coll—JOP det).

LI: GREENPORT 2 Ju 1963, on *Populus heterophylla* (RL coll).

Aphis maidiradicis Forbes

see *Brachycaudus maidiradicis* (Forbes)

Aphis monardi Oestlund

WAVERLEY 31 Aug abundant, and GUN HOUSE HILL, HOBART 10 Aug 1963 a few apterae, on *Monarda fistulosa* (LWA coll).

Aphis nasturtii Kaltenbach

Buckthorn Aphid

OSWEGO Co 28 Aug 1964, an alata, in MT (Gonz coll—JOP det). LUDLOWVILLE 20 Aug 1964 abundant, on *Alisma plantago-aquatica* (LLP coll—MacG det).

LI: FARMINGDALE 1-9 J1 1961, 1 alata, in MT (GVJ coll—LMR det). GREENPORT 21 Oct 1965, 3 pupae, 1 immature aptera from *Epilobium adenocaulon* (RL coll).

***Aphis neilliae** Oestlund

LI: ORIENT 5 Ju 1965, many apterae, on young shoots near the ground of *Physocarpus opulifolius* (RL coll).

Aphis nerii Fonscolombe

Oleaster and Milkweed Aphid

LI: ORIENT, Oct 1922, very abundant, on *Asclepias pulchra* (RL coll—E.P. Felt det).

OSWEGO Co 4 J1 1964, alata, in MT (Gonz coll—JOP det). ROCHESTER 21 J1 1962, apterae, on *Apocynum androsaemifolium* (HLG coll).

LI: SOUTHOLD 9 Sept 1962, on *Asclepias pulchra*; 28 Ju, 12 J1 1963, on *A. syriaca* (RL coll). ORIENT 22 Ju 1963, on *Apocynum cannabinum*, 15 Oct 1964, on *Asclepias pulchra* (RL coll). GREENPORT 30 Ju 1962, on *Asclepias purpurascens*; 13 Sept 1962; 11, 24 Sept 1963; 22 Sept 1964, on *A. pulchra* (RL coll). 23 Ju 1963, on *A. syriaca* (RL coll). SOUTHOLD 9 Sept 1962, on *A. pulchra*; 28 Ju, 12 J1 1963, on *A. syriaca* (RL coll).

Regarding a collection he made at MATTITUCK 3 Aug 1962, Latham writes on 15 Aug as follows: "Stanley Smith, Botanist in the State Museum was out and asked me to go afield with him. So I broke away for one day. We went to MATTITUCK and GREENPORT vicinities. With one exception, I saw no aphids all day except on one host which was spectacular. This was

Asclepias pulchra. This swamp milkweed was growing in a border about 10 feet wide along the edge of a pond and about 200 feet in length. Every plant in the whole border, apparently so far as I could determine, was covered, except the leaves and flowers, from the top to midway down the stem with big golden yellow aphids which were shining in the sun. It was a glorious sight. The aphids were as thick as they could cling to stems, petioles and peduncles—just millions of them. A sight one would never forget."

Aphis oenotherae Oestlund

LI: ORIENT 11 JI 1961, apterae, alatae, in top of plants of *Oenothera parviflora* var. *oaksiana* (RL coll—JOP det); 26 Ju 1964, on *Oenothera biennis* (RL coll—LMR det). GREENPORT 23 JI 1961, in flower heads of *O. biennis* (RL coll—JOP det).

Aphis oestlundii Gillette

ROCHESTER 31 JI 1965, apterae, on *Oenothera fruticosa* (HLG coll).
LI: GREENPORT 27 May 1962, ORIENT 20 Ju 1962 and RIVERHEAD 30 Aug 1963, on *O. biennis* (RL coll).

Aphis pomi DeGeer

Apple Aphid

ITHACA 31 Aug 1931, on *Sorbus aucuparia* (Griswold coll—1 slide in CU Coll; record omitted in NYL). NORTH LANSING 15 Ju–7 Aug 1964, 1 alata, in sticky trap in bean field (Zett coll—JOP det). WEST NYACK 6 Ju 1959, on Bechtel crab (Olsen coll—record omitted from NYL). POUGHKEEPSIE 30 JI 1966, on *Sorbus aucuparia*; 27 Ju 1966, on crabapple and Paul's scarlet thorn (GOS coll).

LI: ORIENT 9 Sept 1961, on apple; 21 Ju 1963 and 21 Oct 1965, on *Chaenomeles japonica*, 17 Ju 1961, on *Malus baccata*; 13 JI 1963, on *Aronia arbutifolia*; 17 Ju 1966, on crabapple. BAYVIEW 25 Ju 1961 and SOUTHDOLD 14 JI 1963, on apple. RIVERHEAD 11 JI 1963, on *Aronia melanocarpa*. All LI colls by RL.

Aphis pseudohederae Theobald

See *Aphis hederæ* Kaltenbach

Aphis rubicola Oestlund

OSWEGO Co 3, 10 JI 1964, alatae, in MT (Gonz coll—JOP det).

LI: GREENPORT 9 JI 1961, on *Rubus frondosus* (RL coll—JOP det).

Aphis rubifolii (Thomas)

OSWEGO Co 3 JI, 21, 28 Aug 1964, alatae, in MT (Gonz coll—JOP det).

LI: FARMINGDALE 26–30 Aug 1963 1 alata, in MT (GVJ coll—LMR det). GREENPORT 17 Sept 1957, 24 Aug 1963, on *Rubus frondosus*. BAYVIEW 21 Oct 1962, on *R. argutus* (RL coll—LMR det). Orient 16 JI

1962 many viviparae, oviparae, on *R. canadensis*, 16 Sept 1962, 22 Oct 1963, on *R. laciniatus* in curled leaves, 23 Oct 1963, on *R. allegheniensis* (RL coll—LMR det): 20 Oct 1963, on *R. loganbaccus* (RL coll—det MDL with query).

Aphis rumexicolens (Patch)

see *Brachycaudus rumexicolens* (Patch)

Aphis rumicis Linnaeus

Dock Aphid

OSWEGO Co alatae, in MTs 3, 10 J1; 21, 28 Aug 1964 (Gonz coll—JOP det). ITHACA 23 May 1963, on *Rumex crispus* (LWA coll). NORTH LANSING 15 Ju—7 Aug 1964, 1 alata, in sticky trap in bean field (Zett coll—JOP det).

SI: CASTLETON CORNERS 2 Nov 1961, on *R. crispus* attended by the ant *Prenolepis imparis* (Say), (EAR coll).

LI: FARMINGDALE 26–30 Aug 1963, 1 alata; 15–22 May, 1 alata; 26 Ju–4 J1, 3 alatae; 23–31 Aug, 1 alata; 8–14 Sept, 1 alata 1961, all in MT (GVJ coll—LMR det). AQUEBOG 25 May 1961, on *R. obtusifolius* and BAYVIEW 10 Ju 1962, on *R. obtusifolius*. SOUTHDOLD 9 J1 1963, on *R. crispus*. GREENPORT 24 Ju 1962 and 23 Ju 1963, on *R. verticillata*; 3 Ju 1962, on *R. crispus*; 19 Ju 1962 and 2 Ju 1963, on *R. obtusifolius*. ORIENT 24 May 1961, on *R. crispus*; 6 Ju 1966, on *R. obtusifolius*; 3 Ju 1963 and 29 May 1965, on *R. crispus*; 6 Ju 1966 on *R. obtusifolius* attended by the ant *Prenolepis imparis* (Say). All LI colls except FARMINGDALE are by RL.

On 17 Ju 1962, Roy Latham wrote me: "Why is the black aphid more common on *Rumex crispus* than on *R. obtusifolius*? Even when the two species are growing together it is always the curled dock which is selected by the aphids. I know that people commonly eat the curled dock for greens and never touch the broad-leaved species for food. I wonder if there is a difference in taste that even the insects can detect?"

Aphis sambucifoliae Fitch

OSWEGO Co alatae, in MTs 3, 10 J1; 28 Aug; 4 Sept 1964 (Gonz coll—JOP det). ITHACA 6 Oct 1933 a drift alata, on *Morus alba* (Griswold coll—LMR det) omitted from NYL.

LI: GREENPORT 5 Nov 1961, on *Sambucus* sp. (MDL det); 9 J1 1961, many on *Sambucus* sp. (JOP det). BAY VIEW 8 Oct 1961, alatae, apterae, on *S. canadensis*. ORIENT 31 J1, 20 Aug, 31 Dec, 28 Sept 1961, on *S. canadensis* (mostly JOP det); 6 Ju, 30 May 1962, on *S. canadensis*; 1 Nov 1965 a number of alatae with some very small young and many ants, *Aphaenogaster fulva* (Roger) and 20 Ju 1966 many apterae (*one of these had 4 cornicles*)*, on *S. nigra*—all LI colls by RL.

* See "An aphid with four cornicles" by M. D. Leonard—Proc. Ent. Soc. Wash. 68(4):320, 1966.

Commenting on this aphid Roy Latham wrote me on 25 Sept 1966: "I have always thought of the aphids on this plant as late season species."

They were on my *Sambucus nigra* bush until early winter. They were back on this plant in early June this season. Then they disappeared and have not been seen since. I remember getting them on *S. canadensis* after snow storms in December and seeing them freeze up solid on the plant."

Aphis spiraeicola Patch

Spiraea Aphid

OSWEGO Co alatae, in MT 3, 10 Jl; 28 Aug 1964 (Gonz coll—JOP det). ROCHESTER 1 Jl 1962, on *Heuchera americana* and *Apocynum androsaemifolium* 24 Nov 1963 plentiful on *Spiraea vanhouttei* and 1 Oct 1966 on *S. bumalda* var. Anthony Waterer (HLG coll). ITHACA (CORNELL CAMPUS) 7 Ju 1963, on *Spiraea thunburgii* (LLP coll).

SI: CLOVE LAKES PARK 15 Jl 1963, on *Apocynum cannabinum* (EAR coll).

LI: JAMESPORT 7 Jl 1961, on *Pieris japonica* (GVJ coll—LMR det). FARMINGTON 9–14 Ju, 13 alatae and 12–18 Jl 1961, 1 alata and 12–16 Aug 1965, 1 alata, in MT (GVJ coll—LMR det). SOUTHDOWN 9 Jl 1961, on *Spiraea latifolia*, a few on new growth (JOP det); 20 Ju 1949, on *Apocynum cannabinum*; 14 Jl 1963, on *Spiraea splendens*. RIVERHEAD 16 Ju 1963, on *S. bumalda* Anthony Waterer. GREENPORT 9 Jl 1961, apterae, under and in curled leaves of *Crataegus crusgalli* (JOP det) and in curled leaves of *Rubus frondosus*. ORIENT 13 Jl, a few in flowerheads of *Chrysanthemum parthenium*; 14 Jl mostly in flowers of *Daucus carota*; 12 Jl, on new twigs of *Sorbus aucuparia* and 28 Ju 1961, on *Spiraea japonica*; 23 May 1963, on *S. vanhouttei*; 28 Ju many, and 7 Aug 1963, on *Crataegus oxycantha* and 6 Ju 1964, on *Spiraea splendens* (RL coll—LMR det); 14 Sept 1965, a few on tips of *Pyracantha coccinea*, attended by the ant *Prenolepis imparis* (Say); 26 Ju 1965 and 1 Ju 1966, on *Spiraea bumalda* Anthony Waterer and Nov 9, 1966, on *S. alba*—all except JAMESPORT and FARMINGDALE RL coll.

Aphis spiraeophila Patch

Brown Spiraea Aphid

ST MARY'S POND, OSWEGO Co 17 Ju 1964, on *Spiraea latifolia* (LLP coll). WELLESLEY ID, JEFFERSON Co 22 Aug 1963, on *S. latifolia* (LLP coll). FRANKLIN, DELAWARE Co 7 Sept 1963, on *S. latifolia* (LWA coll).

Asiphonaphis anogis Hottes & Frison

see *Pseudoasiphonaphis corni* (Tissot)

***Aspidaphis adjuvans** (Walker)

Armored Knotweed Aphid

OSWEGO Co 1 alata 21 Aug 1964, in MT (Gonz coll—JOP det). ITHACA 12 Ju–19 Aug 1965, 2 alatae, in sticky traps in bean field (Zett coll—JOP det). Previously recorded only from BOULDER and FT COLLINS, COLORADO, where it is said to be found from 27 Apr–10 Oct and to be common on the leaves of *Polygonum aviculare*.

Brachycaudus cardui (Linnaeus) Thistle Aphid
Formerly in *Anuraphis*

A vial received some years ago from the N Y State Museum contained two short sections of the woody stem of *Carduus mutans* encrusted with apterae, mostly parasitized; no date, locality or collector given but the collection is unquestionably in NY.

NO. LANSING 15 Ju-7 Aug 1964, 3 alatae and 12 Ju-16 Aug 1965, 5 alatae, in MTs in kidney bean field (Zett coll—JOP det). McLEAN 27 JI 1963, on *Cirsium vulgare* (LLP coll). MARYLAND 7 Sept 1963, on *C. vulgare* (LWA coll).

LI: GREENPORT 2 JI 1961, 7 Aug 1963, 25 Aug 1964, on *C. vulgare*; 24 Ju 1962, 22 Sept 1964, many on *C. discolor*. SOUTHOLD 9 JI 1961, on *C. vulgare*. ORIENT 11 JI 1961, 18 Ju 1962, 16, 21 Aug 1962, 25 Ju 1965, on *C. vulgare*, the latter attended by the ant *Prenolepis imparis* (Say). RIVERHEAD 11 JI 1963, on *C. odoratum*; 6 JI 1962 on *C. arvense*; 13 JI 1966, on *Ajuga reptans*, 2 apterae. All LI colls by RL.

Brachycaudus crataegifoliae (Fitch)
Formerly in *Aphis*

OSWEGO Co 28 Aug 1964, alata, in MT (Gonz coll—JOP det). NORTH LANSING 9 Ju-16 Aug 1965, 1 alata, in MT in bean field (Zett coll—JOP det). POUGHKEEPSIE 11 JI, 5 Sept many, 24 Oct 1965 very few, on *Crataegus oxycantha* var. *pauli* (GOS coll).

LI: GREENPORT 30 Ju 1962, on *C. oxycantha*. ORIENT 19 Ju 1962, 15 JI 1963, 22 Aug and det with a query, 3 JI 1963, on *C. oxycantha*. All LI colls by RL.

Brachycaudus helichrysi (Kaltenbach) Leaf-curl Plum Aphid
Formerly in *Anuraphis*

OSWEGO Co 19-26 Ju, 4 alatae, 26 Ju-3 JI, 1 alata, 3-10 JI, 6 alatae, 1964 (Gonz coll—JOP det). ROCHESTER 3 Nov 1963, on *Anaphalis margaritacea* (HILG coll—MacG det).

LI: FARMINGDALE 25 May 1955, on *Chrysanthemum* sp. (GVJ coll—LMR det).

Brachycaudus maidiradicis (Forbes) Corn Root Aphid
Formerly in *Anuraphis*

OSWEGO Co 3, 10 JI, 28 Aug 1964, alatae, in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju-17 Aug 1964, 1 alata, on sticky trap in bean field (Zett coll—JOP det).

LI: SEA CLIFF 17 Aug 1948, on roots of *Callistephus chinensis* (RL

coll). FARMINGDALE 26 Ju-4 Jl 1961 1 alata, in MT (GVJ coll—LMR det). ORIENT 8 Sept 1961, on roots of *Amaranthus retroflexus* (RL coll); 24 Sept 1961, on roots of *Cucurbita pepo* (RL coll).

Brachycaudus menthaeradicis (Cowen)

Formerly in *Anuraphis*

ITHACA 30 Sept 1911, on (presumably the roots of) *Salix* sp. (4 slides in USNM by A C Baker).

***Brachycaudus middletoni** (Thomas)

Formerly in *Anuraphis*

LI: FARMINGDALE 25-29 Jl 1963, 3 alatae, in MT (GVJ coll—LMR det).

Brachycaudus rumexicolens (Patch)

Formerly in *Anuraphis*

OSWEGO Co 19-26 Jl, 5 alatae and 26 Ju-3 Jl 1964, in MTs (Gonz coll—JOP det). NORTH LANSING 15 Ju-7 Aug 1964, 4 alatae, on sticky traps in bean fields (Zett coll—JOP det).

LI: FARMINGDALE 1-9 Ju, 2 alatae, and 26 Ju-4 Jl 1961, 1 alata, in MT (GVJ coll—LMR det).

*?**Brachycaudus rumicellus** (Theobald)

LI: FARMINGDALE 14-20, 1 alata and 20-26 Ju, 1 alata, 4-12 Jl 1961, 2 alatae, in MT (GVJ coll—LMR det with query).

Brachycolus atriplicis (Linnaeus)

Boat Gall Aphid

Formerly *Hyalopterus atriplicis* (Linnaeus)

OSWEGO Co—total number of alatae in MTs from four farms: Ju-Sept 1963 is 1254 and Ju-Sept 1964 is 3090. Weekly number of alatae in MTs on Farm S in 1963: 5-12 Aug, 69; 12-19 Aug, 7; 19-26 Aug, 97; 26 Aug-2 Sept, 21; 2-9 Sept, 7—total 202. The same data for 1964 on Farm J: 16-19 Ju, 6; 19-26 Ju, 3; 26 Ju-3 Jl, 3; 3-10 Jl, 25; 7-14 Aug, 42; 14-21 Aug, 117; 21-28 Aug, 75; 28 Aug-4 Sept, 62; 4-11 Sept, 1; 18-25 Sept, 1—total 316. The same data for 1964 on Farm P: 17-14 Aug, 3; 15-21 Aug, 23; 21-28 Aug, 62; 28 Aug-4 Sept, 65; 4-11 Sept, 4—total 155. A large number of alatae were also taken in 1963. (Gonz coll—JOP det). NORTH LANSING 28 Ju-16 Aug, 908 alatae; ITHACA 28 Ju-16 Aug, 2317 alatae; CANASTOTA 1 Jl-19 Aug, 181 alatae—all in sticky traps in bean fields (Zett coll—JOP det).

Brevicoryne brassicae (Linnaeus)

Cabbage Aphid

OSWEGO Co 28 Aug 1964, alatae, in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju-7 Aug 1964, 5 alatae; ITHACA 12 Ju-16 Aug

1965, 15 alatae and CANASTOTA 1 JI–10 Aug 1965, 12 alatae—all in sticky traps in bean fields (Zett coll—JOP det). ITHACA 22 Aug 1965, on *Brassica napobrassica* (Zett coll—JOP det).

LI: FARMINGDALE 2–5, 1 alata, 12–16, 1 alata, 26–30 Aug 1963, 4–13 Oct, 190 alatae, and 12–18 JI 1961, 1 alata, in MT (GVJ coll—LMR det). ORIENT 21 JI 1961 on flower stalks of *B. rapa* (JOP det); 25 Aug, 10, 22 Oct, on radish and 31 Aug 1963, on *B. napobrassica* and Brussels sprouts and many on cabbage and cauliflower; 20 Nov, 1 Dec 1963, on *Lepidium sativa*; apterae, on *Molucella laevis* (MacG det); 27 Oct 1966 on cauliflower and 6 Nov 1966 abundant, on *Brassica oleracea gemmifera* and *B. o. rubra*. All LI colls except FARMINGDALE are by RL.

Cachryophora serotinae Oestlund

Has also been placed in *Rhopalosiphum*.

LI: BAYVIEW 8 Oct 1961, 1 alata, 6 nymphs, on *Solidago rugosa* (RL coll). GREENPORT 6 JI 1966, on *S. odora*, 1 immature nymph (RL coll—MDL det with query). ORIENT 2 JI 1966, several alatae, nymphs on *S. rugosa* (RL coll).

***Calaphis n.** sp.

LI: FARMINGDALE 15 JI 1963, in MT, number of specimens not given (GVJ coll—LMR det).

***Calaphis alni** Baker

TUG HILL, LEWIS Co 10 Aug 1965 a number of alatae, apterae, on *Alnus rugosa* (LLP coll).

***Calaphis annulata** (Koch)

In the NYL, *Chaitophorus betulae* Buckton on *Betula alba* is based on a record by Gillette at ALBANY and GENEVA. In a letter from Dr. Hille Ris Lambers of 11 Ju 1963, he says that this is not a *Chaitophorus* and that the record almost certainly relates to *Calaphis annulata* (Koch), a common aphid on *Betula alba*.

Calaphis betulaecolens (Fitch)

OSWEGO Co 3, 10 JI, 28 Aug 1964, alatae, in MT (Gonz coll—JOP det). LUDLOWVILLE 4 JI 1963, on *Betula lutea* (LLP coll—Ole Heie det). STAMFORD 7 Oct 1963, on *B. papyrifera* (LWA coll—Ole Heie det). ITHACA 12 Ju–16 Aug 1963, 3 alatae, in sticky trap in bean field (Zett coll—JOP det with query).

Calaphis betulella Walsh

ROCHESTER 21 JI 1962, 1 “drift” alata, on *Rhododendron nudiflorum*, 1 “drift” alata, on *Cypripedium reginae*, and another on *C. acaule*; 24 Aug

1965, 1 dead alata, on *C. parviflorum* and a "drift" alata, on *C. acaule*; 21 J1 1962, 6 Oct 1963 and 31 J1 1965 several alatae, apterae, on *Betula nigra*; 29 J1, 31 J1 and 29 Aug 1965, 1 "drift" alata each, on *Heuchera americana*, cult filbert, and *Primula japonica*—HLG coll.

Capitophorus sp.

LI: FARMINGDALE 18–25 J1, 28 J1–1 Aug 1960, 1 alata each, in MT (GVJ coll—LMR det).

Capitophorus braggii Gillette

see *Capitophorus elacagni* Del Guercis

Capitophorus elaeagni (Del Guercio) Oleaster Thistle Aphid

OSWEGO Co 28 Aug 1964, alatae, in MT (Gonz coll—JOP det). ROCHESTER 26 Sept 1965, a "drift", on *Lobelia siphilitica* (HLG coll). NORTH LANSING 15 Ju–7 Aug 1963, 4 alatae, and ITHACA 12 Ju–18 Aug 1965, 2 alatae, in sticky traps in bean fields (Zett coll—JOP det). LUDLOWVILLE 21 Sept 1965, 20 alatae at a 50 v. black light (LLP coll).

LI: FARMINGDALE 22–31 May, 1 alata and 14–20 Sept 1961, 1 alata; 12–16 Aug 1963, 2 alatae, in MT (GVJ coll—LMR det). ORIENT 24 Oct 1963, on *Cynara cardunculus* (LMR det); 21 Aug 1963 several stray alatae, on *Lysimachia clethroides*; 9 Aug, 28 Sept, 29 Oct 1965, on *Cirsium discolor*; 23 Oct 1965, 8 alatae, in MT; in Nov 1966 many males and alate vivips, on one *Elaeagnus angustifolia* tree until the last of the leaves had fallen; 16 alatae Oct 1966 in MT—all RL coll.

Capitophorus hippophoes (Walker) Polygonum Aphid

OSWEGO Co 28 Aug 1964 alata, in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju 17 Aug 1961, 14 alatae and 28 Ju–16 Aug 1965, 143 alatae; ITHACA 28 Ju–16 Aug, 1965, 231 alatae and CANASTOTA, 119 alatae—in sticky traps in bean fields (Zett coll—JOP det).

SI: CASTLETON CORNERS 1–7 Nov 1960, 2 males, 1 alata vivip, in MT (EAR coll—JOP det).

LI: ORIENT 5 Nov 1961, GREENPORT 27 Sept 1957 (omitted from NYL) and 1 J1 1962, on *Polygonum persicaria* and 3 Ju 1962, on *P. setaceum* (RL coll). SOUTHOLD 7 Sept 1962, on *P. lapathifolium* (RL coll).

Capitophorus hippophoes subsp. *javanicus* Hille Ris Lambers

LI: ORIENT 5 J1 1959 common, on *Polygonum persicaria* (RL coll—HRL det), omitted from NYL.

Capitophorus ribis (Linnaeus)

see *Cryptomyzus ribis* (Linnaeus)

***Carolinaia caricis** Ainslee

NORTH LANSING 15 Ju-7 Aug 1964, 1 alata, in sticky trap in bean field (Zett coll—JOP det).

***Catamergus fulvae** (Oestlund)

LUDLOWVILLE 18 Aug 1964, on *Impatiens pallida* (LLP coll—MacG det). Dr. Pechuman comments however, "Two collections; both on stems and flower stems, not on leaves; one greenish with thin white bloom; the other reddish with no bloom; both collected from a single plant."

Cavariella sp.

LI: GREENPORT 10 Jl 1963 many alatae, apterae, on *Sium suave* (RL coll). ORIENT 22 Jl 1963, a number of immatures, on *Pastinaca sativa*.

Cavariella sp.

LI: RIVERHEAD 15 Jl 1963, apterae, on *Lysimachia quadrifolia* (RL coll—MacG det). ORIENT 19 Jl 1966, on *Heracleum lanatum* (RL coll). BAY VIEW 10 Jl 1960, apterae only, on *Salix alba* (RL coll). Concerning this collection Mr. Latham writes: "The whole top of the small trees was covered with patches of green aphids but I could not find an alate among them; I never saw aphids so abundant." GREENPORT 29 Jl 1962, on *Salix nigra* (RL coll—LMR det sp as prob. *aegopodii*).

Cavariella aegopodii (Scoplioli)

ITHACA 6 Oct 1937, 1 alata "drift", on *Morus alba* (Griswold coll—LMR det). LUDLOWVILLE 22 Oct 1963, on leaves of *Salix* sp. (LLP coll). MONTICELLO 4 Sept 1961, on *Cryptotaenia canadensis* (Olsen coll).

LI: FARMINGDALE 15-22 May 1961, in MT (GVJ coll—LMR det). GREENPORT 9 Jl 1961, on *Cicuta maculata* (JOP det with query); 7 Ju 1963, on *Geranium maculatum* (MacG det). ORIENT 31 May 1962, 1 Jl 1966, on *Osmorhiza claytoni*; 2 Jl 1966, on *Daucus carota*; 11 Aug 1964 (LMR det) and 23 Oct 1965, apterae, on *Foeniculum vulgare*; 26 Oct 1965, apterae on *Sium suave*—all LI except FARMINGDALE RL coll.

Cavariella essigi Gillette & Palmer

OSWEGO Co 3 Jl 1964, an alata, in MT (Gonz coll—JOP det).

LI: GREENPORT 14 Jl 1963, many apterae, on *Cicuta maculata* "on top branches, many dead." ORIENT 24 Sept 1964 a number of alatae, apterae, on *Daucus carota*; 10 Ju 1965, 1 alata, many apterae, on *Heracleum lanatum*—all RL coll.

Cavariella hendersoni Knowlton & Smith

LI: ORIENT 17 Jl 1962, on *Pastinaca sativa* (RL coll—LMR det); 8 Jl 1966, on *Cicuta maculata* (RL coll). SOUTHOLD, 29 Jl 1962, on

C. maculata (RL coll—LMR det). GREENPORT 10 JI 1963, on *Sium suave* (RL coll—LMR det). SOUTHDOLD 29 JI 1962, on *Cicuta maculata* (RL coll—LMR det).

The above determinations may be in error. Dr. H. L. J. Stroyan writes me on 26 Jan 1968 that he is currently investigating the status of some *Cavariella* species and that the true *C. hendersoni* is only certainly known from Utah. He also points out that the type host plant is *Salix* and the aphid may be a western variant of the eastern and central *C. salicis*.

In NYL, p. 333 are the following records under *C. hendersoni* K & S: LYNDONVILLE 5 JI 1959 on *Cicuta maculata* (LLP coll—CFS det). LI: GREENPORT 26 JI 1959 on *C. maculata* (Latham coll—CFS det). It is believed that these may be referable to *C. konoi*.

**Cavariella konoi* Takehashi

LI: GREENPORT, 14 JI 1963 on *Cicuta bulbifera* (RL coll—Stroyan/Eastop det).

**Cavariella salicis* Monell

Sheridan, no date but probably 1905, on *Salix sp.* (Hayhurst coll—1 slide in USNM).

LI: BAY VIEW, 10 JI 1960, on *Salix alba* (RL coll—Stroyan/Eastop det).

Cavariella theobaldi (Gillette and Bragg)

LOCKPORT 3 Aug 1966, on *Pastinaca sativa* (LLP coll—LMR det). OSWEGO Co 3 JI 1964 alata, in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju–7 Aug 1964, 22 alatae, in sticky traps in bean fields; 9 Ju–16 Aug 1965, 26 alatae. ITHACA 12 Ju–16 Aug 1965, (det JOP as mostly *theobaldi*) and CANASTOTA 1 JI–19 Aug, 8 alatae—all in sticky traps in bean fields 1965 (Zett coll—JOP det).

LI: GREENPORT 20 Ju 1963, alatae, apterae, clustered on stems of *Osmorhiza claytoni* and ORIENT 2 JI 1962, common on umbel stalks of *Heracleum lanatum*, and 23 Ju 1963, on *H. lanatum* (RI. coll—MacG det); ORIENT, 17 JI 1962, on *Pastinaca sativa* (RL coll—LMR det) and 13 Ju 1963, on *Alliaria alliaria* (RL coll—MacG det).

**Cepigillettea myrica* (Patch)

This aphid is in the Food Plant List of the NYL under *Myrica gale* but the following data were omitted from the text of the List.

LI: CALVERTON 18 Oct 1947, on *Myrica cerifera*, 1 slide with 1 mature, 1 immature aptera (RL coll—MDL det with query). RIVERHEAD 17 Aug

1952, on *Comptonia peregrina* var. *asplenifolia* (RL coll—4 slides in USNM—Granovsky det); 15 JI 1963, 1 aptera, on *M. gale* (RL coll).

ZURICH BOG, WAYNE Co, 25 Ju 1964, 4 apterae, on *Myrica gale* (LLP coll).

?Chaetosiphon (Pentatrichopus) fragaefolii (Cockerell)

Strawberry Aphid

ROCHESTER 16 JI 1963, on *Rosa carolina* (IILG coll—Eastop det with query).

Chaetosiphon (Pentatrichopus) minor (Forbes)

ROCHESTER 26 Oct 1963 oviparae, on *Fragaria virginiana* (HLG coll—Eastop det).

Chaitophorus sp.

LI: GREENPORT 24 Oct 1963, on *Salix nigra* (RL coll—MacG det).

Chaitophorus betulae Buckton

see *Calaphis annulata* (Koch)

Chaitophorus nigrae Oestlund

OSWEGO Co 3, 10 JI, 21 Aug 1964, alatae, in MT (Gonz coll—JOP det). ITHACA 22 Aug 1965, on *Salix* sp. (Zett coll—JOP det).

Chaitophorus populicola (Thomas)

Cloudy-winged Cottonwood Leaf Aphid

OSWEGO Co 3–10 JI 1963, 1 alata, in MT (Gonz coll—JOP det). ITHACA (FOREST HOME) 22 May 1938, on *Populus tremuloides* (John Graham coll). RINGWOOD RESERVATION 13 Ju 1963, many on *Populus balsamifera* (given as *P. tacamacca* by LWA coll). CINNAMON LAKE, SCHUYLER Co, 3 Ju 1965, on *P. tremuloides* and LUDLOWVILLE 6 Sept 1965, on *P. deltoides* (LLP coll).

LI: ORIENT 20 Ju, 28 Aug, 9 Sept 1962, on *P. grandidentata* (RL coll). RIVERHEAD 16 Ju 1961, on *P. grandidentata*, SOUTHOLD 14 JI 1963, on *P. tremuloides*. GREENPORT 11 Ju 1962, on *P. grandidentata*; 23 Ju 1963 (MacG det) 23 May 1964, on *P. tremuloides*—all LI are RL coll.

Chaitophorus populicola subspecies *patchae* Hille Ris Lambers

OSWEGO Co 10 JI 1964 alatae, in MT (Gonz coll—JOP det). ITHACA 11 Ju 1965, on *Populus deltoides* (Zett coll—JOP det).

Chaitophorus populifoliae (Oestlund/Davis)

Clear-winged Aspen Aphid

ITHACA (FOREST HOME) 17 ju 1958, on *Populus tremuloides* (John Graham coll).

Chaitophorus stevensis Sanborn

NORTH LANSING 9 Ju–16 Aug 1965, 49 alatae, in sticky traps in bean fields (Zett coll—JOP det).

LI: ?GREENPORT apterae, altatae, on *Populus heterophylla* (RL coll—MacG det with query).

Chaitophorus viminalis Monell

Little Black and Green Willow Leaf Aphid

ROCHESTER 18 Aug 1963 numerous, on leaves of *Salix babylonica* (HLG coll). ZURICH BOG, WAYNE Co, 25 Ju 1964, on *Salix* sp. (LLP coll). JUDLOWVILLE 11 Sept 1963, on *Salix* sp. (LLP coll).

LI: RIVERHEAD 15 Ju 1963, on *Salix alba* (RL coll). This aphid is in the Food Plant List of the NYL under *Salix alba* but not in the List of Aphids for this plant.

*?**Chaitophorus viminicola** Hille Ris Lambers

J.I: GREENPORT 11 Sept 1963, on underside of leaves of *Salix nigra* (RL coll—MacG det with query).

Chromaphis juglandicola (Kaltenbach)

Walnut Aphid

ROCHESTER 18 Aug 1963, on Carpathian walnut, several specimens (HLG coll—Bissell det).

?**Cinara** sp.

LI: ORIENT 13 JI 1966, 3 immatures, on *Chamaecyparis thyoides* (RL coll—ANT det with query).

?**Cinara** sp.

ORIENT 2 JI 1966 several immatures, on *Taxus baccata* (RL coll—ANT det with query).

Cinara cupressi Buckton

In returning slides to me in July 1967, sent them for identification, both Tissot and Pepper expressed the opinion that *C. sabinae* G and P is a synonym of *C. cupressi* (Buckton). If so the records under *sabinae* in the NYL belong here as well as the following: ITHACA 1963, 2 immatures, on red cedar (Warren T. Johnson coll—ANT det with a query as *sabinae*).

***Cinara fornacula** Hottes

POUGHKEEPSIE 13 JI, Aug 1965, immatures, on *Picea abies* (GOS coll—ANT det with query); 27 Ju 1966, alatae, apterae, immatures from the same tree as the 1965 coll (GOS coll—ANT det).

Cinara laricis (Hartig)

Larch Aphid

JOURDANVILLE 6 JI 1963, on larch (NYSM coll).

Cinara piceicola (Cholodkovsky)LI: ORIENT 6 JI 1963, 3 apterae, 1 alata, on *Picea glauca* (RL coll—ANT det).**Cinara pilicornis** (Hartig)LYNDONVILLE 31 JI 1966, on *Picea abies* (B. C. Dickinson coll; thru W. T. Johnson—JOP det as *pilicornis* with a query).LI: ORIENT 6 JI 1962 on *P. glauca*, 2 apterae and 17 JI 1962, 2 alatae, on *P. pungens* (RL coll—ANT det 1964).**Cinara pinea** (Mordwilko)CINCINNATUS (3 mi E), CHENANGO Co, 17 JI 1965, apterae, on *Pinus sylvestris* (LLP coll—JOP det). NORTH LANSING 9 Ju–18 Aug 1965, 1 alata, in sticky trap in bean field (Zett—JOP det).

In the NYI. *C. pini* (L.) is recorded from LI: LOCUST VALLEY May 1936 on the needles of Austrian pine (Ken E. Maxwell coll—ANT det). Dr. Tissot has recently reexamined the slides on which this record is based. On 22 Ju 1967, he notes that this should be called *C. pinea* (Mordwilko) since when he made the determination (about 1937) *C. pinea* was not known to occur in the U. S. Tissot believes that the food plant was misidentified by Maxwell and that it should be *Pinus sylvestris*.

Cinara pinivora (Wilson)LI: ORIENT 5 JI 1966, on *Pinus rigida* (RL coll—ANT det).**Cinara sabiniae** Gillette & Palmersee *Cinara cupressi* (Buckton)**Cinara strobi** Fitch

White Pine Aphid

ITHACA 10 Sept 1927, on *Pinus strobi* (Griswold coll—ANT det); 12 Ju–16 Aug 1965, 2 alatae, from sticky traps in bean field (Zett coll—JOP det). LUDLOWVILLE 4 JI 1965, on *P. strobi* (LLP coll—JOP det).

“Many eggs observed in the ARNOT FOREST near ITHACA; not hatched as of May 1.” [NY Wkly Rpt in CEIR 14 (20):476, May 15, 1964].

“Found on Scotch pine Christmas trees at MARTVILLE, CAYUGA Co” [NY Wkly Rpt, Apr 26 in CEIR 15 (19):451, May 7 1965]. It is doubtful if this aphid is *C. strobi*.

Cinara watsoni Tissot

LI: RIVERHEAD 15 JI, 1 alata and MEDFORD 20 Oct 1963, 6 immature

parasitized specimens, on *Pinus rigida* (RL coll—ANT det, the MEDFORD coll with query). ORIENT 20 Oct, 6 and 17 Nov 1966, sexuales, on *P. rigida* (RL coll—JOP det).

Colopha ulmicola (Fitch) Elm Cockscomb-gall Aphid
OSWEGO Co 10 JI 1964, 1 alata, in MT (Gonz coll—JOP det). "Fully formed (galls) on slippery elm in Vestal area." [NY Wkly Rpt Ju 14 in CEIR 15, (26):692, 25 Ju 1965].

Colopha ulmisacculi (Patch) Elm Sack-gall Aphid
OSWEGO Co 3 JI 1964, 2 alatae, in MT (Gonz coll—JOP det). ITHACA 12 Ju–16 Aug 1965, 1 alata, in sticky trap in bean field (Zett—JOP det).

***Coloradoa absinthii** (Lichenstein)
In a letter to me dated 11 Ju 1963, Dr. Hille Ris Lambers suggests that Olsen's record in the NYL of *Rhopalosiphum angelicae* DeG. on *Artemisia absinthium* must have applied to *Coloradoa absinthii*, an aphid restricted to *A. absinthium* and that *angelicae* is restricted to *Angelica* and *Salix*. I have been unable to locate a slide representing Olsen's collection.

***Coloradoa rufomaculatum** (Wilson) Pale Chrysanthemum Aphid
Formerly in *Rhopalosiphum*
ITHACA 12 Oct 1932, on chrysanthemums (indoors), (MDL coll—ANT det).

Cryptomyzus ribis (Linnaeus) Currant Aphid
Formerly in *Capitophorus*
ROCHESTER 1 JI 1962, 10 May 1963 (apterae); 24 Ju, 26 Oct 1963 (alatae), on red currant; 18 Aug 1963 on *Leonurus cardiaca*, motherwort, (MDL det with query), (HLG coll); on 26 Sept 1965 Gibson writes: "Found that the usual red-currant aphids have killed my bushes this year. I did not spray until after fruit ripened and that was too late."

Dactynotus spp.

All determinations in this genus made by Dr. A. Tom Olive unless otherwise specified. The following collections could not be determined to species:

ROCHESTER 1, 16 JI, on *Oenothera fruticosa*, *Aster ericoides*, *Epilobium angustifolium*, and 14 Sept, 1963, on *Anaphalis margaritacea* (IILG coll). ITHACA (presumably) 22 JI 1926, on *Helenium* sp. outdoors (Griswold coll—5 slides in CU coll, 4 alatae, 1 aptera); this record was in the NYL p. 346 as *D. tardae* H and F but it now appears that *tardae* has not been collected in NY; 11 Aug 1939, on *Eupatorium* sp. (Griswold coll—2 slides in CU Coll); 30 Ju 1963, on *Chrysanthemum leucanthemum* (LLP coll—

MacG det). WEST NYACK J1 1960, several apterae, on *Eupatorium coelestinum* form *alba* (det E. C. Leonard), (CEO coll—MDL det). APALACHIN 5 Aug 1965, on *Anthemis cotula* (LLP coll—MacG det). RENSSELAERVILLE 25 Aug 1966, on *Solidago* sp. (LLP coll—ATO det).

SI: CLOVE LAKES 31 Aug 1962, on *Solidago graminifolia* (EAR coll). CONCORD 31 J1 1963, on *Rudbeckia hirta* (EAR coll).

LI: BAY VIEW 25 Ju 1962, on *Hieracium venosum* (RL coll—ATO det, who notes "could be a new species—don't know as yet"); 9 Ju, on *H. pratense*; 10 Ju, on *H. florentinum*; 10, 25 Ju, on *Hypochaeris radicata*; 21 Oct, on *Chrysanthemum leucanthemum* and *Gnaphalium polycephalum*; 8 Oct, on *Solidago rugosa*—all 1962. RIVERHEAD 15 J1 1963 on *Gnaphalium obtusifolium* and 12 J1 1963, on *Eupatorium maculatum*. GREENPORT 1862, 7 J1, on *Sonchus oleraceus* and *Solidago juncea*, and ? J1, on *Eupatorium berbaefolium* and *E. rotundifolium*; 1963, 23 Ju, on *Hieracium pratense*; 14 J1, on *Eupatorium pilosus*; 3 Aug, on *E. purpureum*; 23 Ju, on *Hieracium pratense*; 26 Sept, on *Erechtites hieraceifolia*; and 23 Aug, on *Cassia nictitans*. ORIENT 13 1962, on *Taraxacum erythrospermum*; 1963, 2 Ju, on *Rheum rhaponticum*; 13 J1, 4 Sept, and 16 Oct, on *Eupatorium purpureum*; 19 J1, on *Tithonia rotundifolia*; 17 Oct, on *Solidago caesia*; 20 Oct, on *Aster tanacetifolia*; 1964, 18 Aug, 8 Sept, on *Eupatorium perfoliatum*; 18 Aug, on *Calendula officinalis*; and 4 Aug 1965, on *Gazania rigens*—All LI colls, by RI..

Dactynotus (Dactynotus) ambrosiae (Thomas)

Brown Ambrosia Aphid

TAHAWUS, in the ADIRONDACKS, 4 Aug 1962, 9 alatae, several apterae, on *Rudbeckia hirta* (HLG coll). ROCHESTER 22 J1 1962, alatae, apterae, on *R. hirta* (HLG coll). LUDLOWVILLE 20 Aug 1964, on *Ambrosia artemisiifolia* (LLP coll). ITHACA 20 J1, 25 Aug 1962, on *Solidago* sp. (Nault coll); 3 Aug 1963, on *Ambrosia artemisiifolia* (LWA coll). OSWEGO Co Ju—Sept 1964, alatae, in MT (Gonz coll—JOP det). WEST NYACK 23 Aug 1947, 12 J1 1959, on *A. trifida* (CFO coll).

SI: CASTLETON CORNERS 25 Aug 1961, on *A. trifida* (EAR coll); 29 Aug 1963, on *A. artemisiifolia* and 15 Sept, 6 Oct 1963, alatae, in MT (EAR coll—ATO det).

LI: ORIENT 26 Ju 1962, on *Solidago rugosa* and 30 Oct 1963 on *Ambrosia artemisiifolia* (RL coll). GREENPORT 10, 19 Ju 1962, on *Iva frutescens*; 1 J1 1962, on *Solidago speciosa* (RL coll); 6 Oct 1964, on *Prenanthes trifoliata* (RL coll).

Dactynotus ambrosiae complex

CROWN POINT 13 Aug 1962, on *Taraxacum officinale*; only one plant (senescent) out of many plants examined was infested, a few aphids in

extreme basal leaves (LMR coll). ROCHESTER 9 Oct 1965, alatae, on wild *Daucus carota*; alatae, apterae, on *Anaphalis margaritacea* (HLG coll). ITHACA, SIX-MILE CREEK, 13 JI 1963, on *Eupatorium perfoliatum* (LLP); 23 Sept 1966, apterae, on *Solidago* sp. (Hayes coll). WEST NYACK 10 Oct 1963, on *E. coelestinum* (Olsen coll). LUDLOWVILLE 10 Sept 1963, on *E. maculatum* (LLP coll).

LI: FARMINGDALE 4-12 JI, 2 alatae, 31 Aug-7 Sept 1961, 1 alata, in MT (GVJ coll—LMR det). SOUTHDOLD 8 JI 1960, on *Vernonia noveboracensis* and *Iva oraria*. GREENPORT 1961, on *Boehmeria cylindrica* (RL coll); 6 Aug 1965, on *Eupatorium purpureum*. ORIENT 11 Sept 1965, on *Senecio vulgaris*; 26 JI 1965, on *Calendula officinalis*; 20 Sept 1965, on *Arctotis breviscapa*; 21 Ju 1966, on *Rudbeckia* sp.; 2 JI 1961, on *Solidago sempervirens*; 19 JI 1966, on *Iva oraria* (RL coll). BAY VIEW (?) 1961, on *Nyssa sylvatica* (RL 88). 29 Aug 1966, apterae, on *Rudbeckia* sp. and 27 Aug 1966, on *R. hirta* (RL coll).

***Dactynotus (Lambertius) anomalae** Hottes and Frison

ALTAMONT 13 Sept 1939, on *Aster novi-angliae* (Griswold coll—4 apterae, 2 alatae, on 3 slides in CU Coll). ROCHESTER 30 Ju, 20 JI (apterae), 31 Aug 1963 (alatae), and 31 JI 1965 (apterae, alatae), on *A. novi-angliae* (HLG coll). LOCKPORT 26 Sept, 8 Oct 1959 and MEDINA 30 Oct 1959, on *A. novi-angliae* (LLP coll—ATO det).

SI: CASTLETON CORNERS, 15 Sept 1963, alata, in MT (EAR coll—ATO det).

***Dactynotus astronomus** Hille Ris Lambers

DANBY 5 Aug 1965, 2 alatae, 9 apterae, on *Aster* sp. (LLP coll). Described from CANADA in 1962. Dr. Olive writes he collected a few specimens on MT. DESERT ISLAND in MAINE in 1965.

***Dactynotus (Lambertius) caligatus** Richards

HECTOR LAND USE AREA, SCHUYLER Co, 23 Aug and GILBOA 25 Aug 1966, on *Solidago* sp. (LLP coll—ATO det).

LI: GREENPORT 6 JI 1966, on *Solidago odora* (RL coll—ATO det who comments "this is very close to *tissoti*; I still wonder whether or not it is a valid species").

Dactynotus (Dactynotus) chrysanthemi (Oestlund)

LUDLOWVILLE 10 Sept 1963, 19 Sept 1964, on *Bidens cernua* (LLP coll). SLATERVILLE 14 Sept 1963, on *B. cernua* (LWA coll).

LI: ORIENT 10 Aug 1962, 25 Sept 1963, Sept 1964, on *B. vulgata*; 23 Oct, on *B. frondosa* and 14 Oct 1963, on *B. tripartita*. GREENPORT 22 Oct 1962, on *B. comosa*. All LI colls by RL.

SI: ROSSVILLE 26 Sept 1963, on *B. vulgata* (EAR coll—ATO det).

***Dactynotus (Lambersius) crepusisiphon** Olive

LI: ORIENT 9 JI 1966, on *Aster simplex* (RL coll).

In making the determination Dr. Olive writes that this record was "quite a shocker" to him since this aphid has only been previously collected at several nearby localities at high elevations in western NORTH CAROLINA. He further states that this species is quite distinct in the subgenus *Lambersius* and cannot be mistaken for anything else.

Dactynotus (Lambersius) erigeronensis (Thomas)

Canadian Fleabane Aphid

ROCHESTER 16, 17 Sept 1963, 5 Sept 1965, on *Erigeron canadensis* (HLG coll). ITHACA (CORNELL CAMPUS) 29 Sept 1963, on *E. canadensis* (LLP coll).

LI: MATTITUCK and PECONIC 28 JI and ORIENT 29 JI 1961, common on stems of *Leptilon canadensis*. GREENPORT 23, 27 Aug 1964, on *E. canadensis*. SOUTHOLD 19 JI 1962, on *E. canadensis*. ORIENT 22 Sept 1963, on *Solidago sempervirens*; 19, 22 Sept, 14 Oct 1963, 19, 27 Aug 1964 and 9 Aug 1965 on *E. canadensis*; 28 Aug 1964, 19 Aug 1965 and 9 Aug 1966, on *E. annuus*. All LI colls by RL.

Dactynotus erigeronensis subsp. **baccharidis** (Clarke)

Formerly *Macrosiphum baccharidis* Clarke

The foregoing synonymy was established by Hille Ris Lambers in *Hilgardia* 37(15):583, 1966.

LI: GREENPORT 11 Aug 1965, 3 immature apterae, on *Baccharis halmifolia* (RL coll—MDL det as presumably this species). ORIENT 15 JI 1966, on *B. halmifolia* (RL coll).

***Dactynotus (Uromelan) eupatorifoliae** Tissot

LUDLOWVILLE 24 Aug 1963, on *Eupatorium urticaefolium* (LLP coll).

Dactynotus (Lambersius) gravicornis (Patch)

ROCHESTER 17 Aug, 19 Sept 1963, 5 Sept 1965, on *Erigeron canadensis* (HLG coll); 20 JI and 4 Aug 1963, on *Solidago juncea* (HLG coll); 21 JI 1963, on *Erigeron annuus* (HLG coll). DANBY 5 Aug 1965, on *E. annuus* (LLP coll). STAMFORD 10 Aug 1963, on *E. strigosus* (LWA coll).

LI: ORIENT 15 JI 1961, on *E. annuus*; 25 Ju 1964, on *E. canadensis*; 28 Aug 1964, JI 4 1966, on *E. annuus*; 30 Aug 1966, on *E. ramosus*; 1-15 Ju 1962, in MT. GREENPORT 12 JI 1963, on *E. pulchellus*; 4 Aug 1964, on *E. annuus*; 26 Aug 1964, on *Solidago odora*. All LI colls by RL.

Dactynotus (Uromelan) helianthicola Olive

In NYL as *Dactynotus* n. sp. No 3 Olive.

SI: CASTLETON CORNERS summer 1964, in MT (EAR coll).

LI: ORIENT 28 Ju 1962, on *Helianthus tuberosus*, 10 Oct 1963, on *H. strumosus* (RL coll). GREENPORT 30 Aug, on *H. strumosus*, 6 Aug 1964 and 17 Sept 1965, on *H. tuberosus* (RL coll).

Dactynotus (Dactynotus) impatiensicolens (Patch)

ITHACA 13 Jl 1963 (LLP coll), 13 Jl 1964 (LWA coll), on *Impatiens biflora* (MacG det). LUDLOWVILLE 10 Sept 1963, 18 Aug 1964, on *I. biflora*; 31 Aug 1963, 18 Aug 1964, on *I. pallida* (LLP coll—MacG det).

SI: CLOVE LAKES PARK 16 Jl 1962, on *I. biflora* (EAR coll).

LI: GREENPORT 11 Jl 1962, SOUTHDOLD 23 Jl 1963, on *I. biflora* (RL coll).

*? **Dactynotus (Dactynotus) lanceolatus** (Patch)

LI: SOUTHDOLD 10 Jl 1963, on *Solidago juncea*, GREENPORT 21 Ju 1963, *S. rugosa* and 26 Aug 1964, on *S. juncea* (all RL coll—ATO det). Dr. Olive writes me he is not sure what *lanceolatus* looks like; the types could not be located when he looked for them in the Patch collection in the University of Maine in the summer of 1965. However, MacGillivray [Ann. Ent. Soc. Am. 61 (2):359, 1968] designated a neotype and thus validated the species.

* **Dactynotus (Dactynotus) leonardi** Olive

ROCHESTER 30 Sept, 14 Oct 1962, 30 Ju, 3, 4 Aug, 17 Sept 1963, 31 Jl 1965, on *Rudbeckia hirta* (HLG coll); 31 Jl 1965, on *Echinacea purpurea* (HGL coll). ITHACA 18 Oct 1965, on *Rudbeckia* hybrid (LLP coll). SOUTH LANSING 31 Aug 1963 (IWA coll). WEST NYACK Jl 1961 (Olsen coll). LA GRANGE 15 Aug 1965 (GOS coll).

LI: ORIENT and GREENPORT 23 Aug 1964 and ORIENT 11 Sept 1963 (RL coll).

All of the preceding collections were made on *Rudbeckia hirta*, except one.

ITHACA (COMSTOCK GARDEN) 2 Aug 1926 (6 slides, apterae and alatae), 22, 26 Jl 1939 (8 slides, apterae and alatae) on *Heliopsis helianthoides* (Griswold coll—slides in CU Coll). These collections were referred to in the NYL p. 341 as *Dactynotus* n. sp. with the following notation: "Dr. Olive says this definitely is a new species but he hesitates to describe it without color notes." In Feb 1966 Dr. Olive determined these slides as *Dactynotus leonardi*.

* **Dactynotus (Dactynotus) nigrotibius** Olive

LI: ORIENT 13, 22 Sept 1963, on *Solidago sempervirens* and 31 Sept 1963, on *S. ulmifolia* (RL coll). GREENPORT 26 Aug 1964, on *S. odora* (RL coll).

Dactynotus (Dactynotus) nigrotuberculatus Olive

In NYL as *Dactynotus* n. sp. No 5 Olive. BARNEVELD 30 Aug 1958, on goldenglow (Geo. N. Wolcott coll). PANTHER LAKE, OSWEGO Co, 21 Aug 1963, on *Solidago* sp. (LLP coll). ROCHESTER 16, 27 JI, 4, 19 Aug 1963, 21 Aug, 26 Sept 1965, on *Solidago juncea* (HLG coll). BESSEMERS 7 Sept 1963, on *S. canadensis* (LWA coll). STAMFORD 7 JI 1963, on *Solidago* sp. (LWA coll). NORTH LANSING 21 Aug 1965, on *S. canadensis* (LLP coll). APPALACHIN 4 Aug 1965, on *Solidago* sp. (LLP coll). WEST NYACK 16 Aug 1961, 5 alatae, 3 apterae, 8 Aug 1947, 6 JI 1958, and 10 JI 1959, on *Solidago* sp. (CEO coll). LUDLOWVILLE 13 Aug, GILBOA 25 Aug and NORTH LANSING 27 Aug 1966, on *Solidago* sp.; and 25 Aug 1966, on *S. altissima* (L.I.P. coll—ATO det).

SI: CLOVE LAKES PARK 19 Aug 1962, on *Cirsium arvense* (ATO det with query) and GRASSMERE 1 Oct 1963, on *Solidago rugosa* (EAR coll—ANT det). CASTLETON CORNERS 1 Ju 1963, on *Solidago* sp. (EAR coll—ATO det). CASTLETON CORNERS 6 Nov 1960, on *S. sempervirens* (EAR coll).

LI: SOUTHOLD 28 Ju 1963, on *S. rugosa*, 23 Aug 1964, on *S. altissima*. MATTITUCK 5 JI 1961, on *S. arguta*. GREENPORT 7 JI 1963, on *S. ulmifolia*; 27 JI, 26 Aug 1964, on *S. altissima*; 26 Aug 1964, on *S. odora*; 21 Ju 1963, 27 Ju, 1 JI 1965, on *S. rugosa*; 6 JI, 17 Sept 1965, on *S. gigantea*; 24 Aug 1964, on *S. sempervirens*; 24 Sept 1964, on *S. serotina*; 26 Sept 1963, on *S. juncea*; 6 JI 1966, on *S. serotina* and *S. rugosa*. ORIENT 14, 26 JI, 16 Sept 1964, 5 JI 1965, on *S. altissima*; 26 Ju 1958, 24 Aug 1962, 25 Aug 1963, 1–3 JI 1965, on *S. rugosa*; 21 Sept 1963, on *S. ulmifolia*; 8 Sept 1964, on *Aster simplex* (is this latter really a food plant?); 28 Ju 1966, on *Solidago rugosa*; 2 JI 1966, on *S. serotina*; 26 Ju 1966, on *S. altissima*. All LI colls by RL. ORIENT 7 JI, 1965, *Aster simplex*, 7 JI on *Solidago* sp. and GREENPORT 8 JI, on *S. sp.* and *S. altissima* (ATO & RL coll).

***Dactynotus (Dactynotus) paucosensoriatus** Hille Ris Lambers

OHIO, HERKIMER Co, 30 JI 1964, on *Aster* sp. (LLP coll). MALLORYVILLE 6 JI 1939, on *A. umbellatus*, 2 apterae, 2 alatae—slides in CU Coll (T. R. Hansberry coll). SLATERVILLE 14 Sept 1963, on *Aster* sp. (LWA coll). NORTH LANSING 27 Aug 1966, on *Erigeron canadensis* (LLP coll—ATO det). ROCHESTER 4 Aug 1963, *Aster novae-angliae* 25 Sept 1963, on *A. laevis* and *A. simplex* (HLG coll).

LI: ORIENT 9 JI 1963, 14 Aug 1964, 3 JI 1965, on *A. simplex*; 10 Oct 1963, on *A. novae-angliae*; 10 JI 1963; 3 Aug 1965, on *Erigeron annuus*; 1 Sept 1965, on *Aster lateriflorus*; 29 JI 1965, on *A. multiflorus*; 8, 16 JI, on *A. undulata* and 7 JI 1966, on *A. multiflorus*. GREENPORT 23 JI, 11

Aug, 10 Sept 1963, 25 Aug, 8 Sept 1964, on *A. novi-belgii*; 10 J1, on *A. lateriflorus* and 13 J1 1963, on *A. puniceus*; Sept 17, on *A. ericoides* and 6 Aug 1965, on *A. novi-belgii*. SOUTHOLD 25 Aug 1963, on *A. novi-belgii*; 8 J1 1960, on *A. umbellatus*. All LI colls by RL.

***Dactynotus (Dactynotus) pepperi** Olive

ROCHESTER 30 Sept 1962, on *Centaurea dealbata* (HLG coll), 1 slide of 1 alata, 2 apterae.

SI: CASTLETON CORNERS 11 Oct 1962, on *Cirsium arvense* (EAR coll).

Dactynotus (Dactynotus) pseudambrosiae Olive

In NYL as *Dactynotus* n. sp. No. 7 Olive.

ITHACA 1 Aug 1965, on *Lactuca* sp. (Zett coll—JOP det as *pseudambrosiae* complex).

SI: CASTLETON CORNERS 10 Oct 1963, on *Lactuca canadensis* (EAR coll); 15 Sept, 6 Oct 1963, alatae, in MT (EAR coll—ATO det).

LI: BAY VIEW 10 Ju, on *Cicorium intybus*, 25 Ju, on *Hieracium floribundum*, 8 Oct, on *Lactuca canadensis* 1962. GREENPORT 25 Sept 1962, on *L. saggitifolia*; 26 Aug 1964, on *L. canadensis*; 11 Aug, 12 Sept 1965, on *L. canadensis*; 17 Aug 1965, on *L. spicata*. ORIENT 4 Oct, 9 Sept 1962; 28 Sept 1963 and 11 Sept 1965, on *L. sativa*; 18 J1 1962, on *L. serriola*. All LI colls by RL.

Dactynotus (Dactynotus) rudbeckiae (Fitch)

Goldenglow or Coneflower Aphid

SI: CASTLETON CORNERS 29 Aug 1963, on *Rudbeckia laciniata* (EAR coll—ATO det).

LI: ORIENT 9 Sept 1962, on *Tithonia rotundifolia* (RL coll—ATO det with query). FARMINGDALE 12–16 Aug 1963, 1 alata, in MT (GVJ coll—LMR det).

Dactynotus russellae Hille Ris Lambers

GOODNOW FLOWAGE in the ADIRONDACKS 4 Aug 1962, on *Antennaria* sp. (HLG coll).

ITHACA 19 Ju 1927, on *Anaphalis margaritacea*, 13 apterae on 4 slides in CU Coll (Griswold coll); this species was not described until 1960. ROCHESTER 9 Oct 1965, on *A. margaritacea* (HLG coll). STAMFORD 10 Aug 1963, on *A. margaritacea* (LWA coll). GUN HOUSE HILL, HOBART, 10 Aug 1963, on *A. neodioica* (LWA coll).

LI: In the NYL *D. rudbeckiae* is recorded from WADING RIVER 1913 or 1914, on *A. neodioica* (Olsen coll). This probably refers to *D. russellae*.

Dactynotus (Dactynotus) sonchellus (Monell)

LI: ORIENT 28 Ju 1964, on *Sonchus asper* (RL coll).

***Dactynotus (Dactynotus) sonchi** (Linnaeus)

ROCHESTER 20 JI 1962, 20 JI, 4, 27 Aug 1963, on *Sonchus asper* (IILG coll). ITHACA 3 Aug 1963, on *Lactuca canadensis* (LWA coll); 17 Aug 1966, on *Sonchus arvensis* (LLP coll).

LI: ORIENT 22 Aug 1962, 5, 14 Aug 1964; 3, 7 JI 1965, on *S. arvensis*; 28 JI 1964, 31 JI 1965, on *S. asper*; 9, 25 Aug 1963, on *S. oleraceus*; 11 Oct 1963, on *Aster lateriflorus*; 11 Oct 1963, 3 Sept 1964, on *Erigeron canadensis*; 24 JI 1964, on *Lactuca serriola*; 23 JI 1965, on *Sonchus oleraceus*. GREENPORT 8 JI 1965, on *Sonchus* sp. All LI colls by RL.

Dactynotus (Uromelan) taraxaci (Kaltenbach)

Dark Dandelion Aphid

STAMFORD 7 JI 1963 a stray alata, on *Asclepias syriaca* (LWA coll—ATO det).

LI: ORIENT 1–15 JI 1962, alata, in MT (RL coll).

Dactynotus (Uromelan) tardae (Hottes and Frison)

This species is in the NYL from ITHACA 22 JI 1926 on *Helenium* sp. (Griswold coll—MDL det), 5 slides in CU Coll. Dr. Olive examined 4 of these slides (uncleared, with 1 alata on each) in 1965 and could only determine them as *Dactynotus* sp. It is therefore believed that *D. tardae* is not yet known to occur in NY).

Dactynotus (Lambersius) tissoti (Boudreaux)

ALTAMONT 26 Aug 1937, on *Solidago* sp. (Griswold coll). STAMFORD 10 Aug 1963, on *S. bicolor* (LWA coll). NORTH LANSING 21 Aug 1965, on *S. canadensis* (LLP coll). KIBBIE LAKE, CONSTANTIA 15 JI 1964, on *Solidago* sp (LLP coll).

LI: GREENPORT 22 JI 1961, 26 Ju 1962, 27 Aug 1963, 24 Sept 1964, on *S. rugosa*; 7 JI 1962, on *S. ulmifolia*; 15 JI 1962, 9 JI 1963, on *S. aspera*; 7, 23 JI 1963, on *S. juncea*; 27 Aug 1964, on *S. speciosa*; 27 JI 1964, on *S. altissima*; 26 Aug 1964, on *S. odora*; 1 JI 1965, on *S. uliginosa*; 9 JI 1963, on *Erigeron annuus*; 6 Aug 1965, on *Solidago juncea*; 10, 17 Sept 1965, on *S. gigantea*; 6 JI 1966, on *S. rugosa* and *S. altissima*; 26 Sept 1963, on *S. juncea*. SOUTHOLD 28 Ju, 9 JI 1963, on *S. rugosa*. BAY VIEW 21 Oct 1962, on *S. nemoralis*. ORIENT 20 Oct 1962, 22 Sept 1963, on *S. sempervirens*; 26 Ju, 24 Aug 1962, on *S. rugosa*; 25 JI 1961, 16 Oct 1963, on *S. odora*; 14 JI 1962, on *S. altissima*; 21 Sept 1963, on *S. ulmifolia*; 3 JI 1963 on *S. bicolor*; 15 JI 1966, on *S. caesia* and *S. sempervirens*. GREENPORT 8 JI 1965, on *S. rugosa*. All LI colls by RL.

Drepanaphis acerifolae (Thomas) Painted Maple Aphid

ELIZABETHTOWN 28 Sept 1936, sexuales, on *Acer saccharum* (Crosby coll—Mason det). OSWEGO Co 3 Jl, 21 Aug 1964, alatae, in MT (Gonz coll—JOP det). LOCKPORT 12 Ju 1959, on *A. saccharinum* (LLP coll—CFS det). LYNDONVILLE 19 Ju 1959, on *A. saccharinum* (LLP coll—CFS det). ITHACA 12 Ju–16 Aug 1965, 8 alatae, in sticky traps (Zett coll—JOP det).

LI: FARMINGDALE 8–14 Sept 1961, 1 alata, and 12–16 Aug 1963, 1 alata, in MT (GVJ coll—LMR det).

Drepanaphis carolinensis Smith

ROCHESTER 13 Sept 1963, a number on *Acer nigrum* (LLP coll). OSWEGO Co 3 Jl 1964, alata, in MT (Gonz coll—JOP det).

Drepanaphis kansensis Smith

LUDLOWVILLE 4 Jl 1963, 18 Jl 1964, on *Acer spicatum* (LLP coll). BELCHER (about 10 mi. NW of SALEM) 6 Jl 1965, 9 alatae, 1 alatoid nymph collected, on *Acer* sp. (Bissell coll).

***Drepanaphis knowltoni** Smith and Dillery

MT. KISCO 31 Jl, 12 Aug 1960, on *Acer* sp. (*John Graham* coll—Smith and Dillery det).

Drepanaphis monelli (Davis)

ITHACA 12 Ju–16 Aug 1965, 1 alata, in sticky trap (Zett coll—JOP det).

Drepanaphis parva Smith

OSWEGO Co 3 Jl, 21 Aug 1964, alatae, in MT (Gonz coll—JOP det). HOBART 6 Jl 1963, on *Acer rubrum* (LWA coll—CFS det).

LI: GREENPORT 22 Sept 1957, accidental on *Lycopus americana* (RL coll—CFS det).

Drepanaphis sabrinae Miller

LOCKPORT 24 Sept and MEDINA 22 Sept 1960, on *Acer saccharum* (LLP coll—CFS det).

LI: FARMINGDALE 6–9 Sept 1963, 1 alata, in MT (GVJ coll—LMR det).

***Drepanaphis spicata** Smith

STAMFORD 29 Jl and LUDLOWVILLE 4 Jl 1965, on *Acer spicatum* (LLP coll—CFS det).

**Drepanosiphum platanoides* (Schrank) Sycamore Maple Aphid

This aphid was omitted from the NYL. ITHACA—in an unpublished MS Morrison wrote:

"So far as I know at the present time this species has not been reported from the Eastern U.S. I found winged specimens and nymphs of it on the sycamore maple in front of the south end of ROCKEFELLER HALL (on the CORNELL CAMPUS) from June 1-12 1914 on the underside of the leaves."

The following collections are from *Acer pseudoplatanus* unless otherwise specified;—ITHACA 13 Sept 1935, many sexuales on *Acer platanoides* (Crosby coll). ROCHESTER 12 Sept 1958 very abundant and agile (LLP coll).

LI: RIVERHEAD 1 Sept 1946. EAST QUOGUE 31 Oct 1958, males, oviparae. MATTITUCK 24 Oct 1958, males, oviparae. EAST MARION 24 Oct 1963, males, oviparae. GREENPORT 24 May 1963, 23 Ju 1959. ORIENT 28 Nov-1 Dec 1948, 20 Sept 1957, 18 Ju, 15 Oct 1958, 10 May 1959, 24 May 1962, 8 May 1963, 2 Nov 1963, 28 Oct, 8, 19 Nov 1964, 16 May 1965, many and this latter coll attended by the ant *Lasius alienus* (Foerster); 1 Nov 1966 males and ovips. All LI colls by RL.

Dysaphis plantaginea (Passerini) Rosy Apple Aphid

Formerly called *Anuraphis rosea* (Baker) in the USA.

NORTH LANSING 9 Apr-16 Aug 1963, 13 alatae, and CANASTOTA 1 Jl-19 Aug, 7 alatae 1965, in sticky traps (Zett coll—JOP det). OSWEGO Co 3 Jl 1964, alata, in MT (Gonz coll—JOP det).

Dysaphis tulipae (Fonscolombe) Tulip Bulb Aphid

Formerly in *Anuraphis*

SI: CASTLETON CORNERS 7 Sept 1963, 6 Jl 1964, in cultures of tall bearded iris (EAR coll); 2 Nov 1964, a number of apterae and 2 alatae, on *Iris alberta*, *I. aphylla*, *I. croatica*, *I. pallida*, *I. perrieri*, and *I. variegata* (EAR coll); 1-7 Nov 1960, 2 alatae, in MT (EAR coll—JOP det).

Eriosoma americanum (Riley) Woolly Elm Aphid

OSWEGO Co, weekly number of aphids trapped per MT during 12 weeks in 1963 is 24 alatae and the same for 1964; (Gonz call—JOP det). NORTH LANSING 15 Ju-7 Aug 1964, 73 alatae, in sticky traps in bean fields (Zett coll—JOP det). LUDLOWVILLE 13 Ju 1966, in rolled edge of leaf of *Ulmus fulva* (LLP coll); this may be *E. mimica* H and F (? sent to CFS in Jan 1967).

Eriosoma crataegi (Oestlund)

LOCKPORT 4 Jl 1960, on *Crataegus oxycantha* and MIDDLEPORT 19 Sept 1960, on *Crataegus* sp. (LLP coll—CFS det). SPENCER 30 Oct 1966, on *Crataegus* sp. (LLP coll).

SI: BOROUGH HALL 2 Nov 1961 (EAR coll—ANT det), CLOVE LAKES PARK 20 Aug 1961 and CASTLETON CORNERS 1 Sept 1963, many on *C. crusgalli* (EAR coll).

LI: ORIENT 18 Oct 1965, on *C. oxycantha* (RL coll).

Eriosoma lanigerum (Hausmann) Woolly Apple Aphid

WATKINS 18 Jl 1917, on elm (R. A. Cushman coll—1 slide in USNM). DANVILLE 4 May 1921, on apple (H. Y. Gould coll—1 slide in USNM). NY—"Produced young and build up has begun on elm." [CEIR 14, (23):584, 5 Ju 1964]. TONAWANDA INDIAN RESERVATION, GENESEE Co., 8 Oct 1960 (LLP coll), on *Malus coronaria*; this locality record was omitted in the NYL although the aphid is in the Food Plant List.

SI: CASTLETON CORNERS 2 Nov 1964, on *M. arnoldiana* (EAR coll).

***Eriosoma mimica** Hottes and Frison

LUDLOWVILLE 12 Ju 1965, in tightly curled edge of leaves of *Ulmus rubra* (LLP coll—CFS det). Dr. Pechuman writes: "Over this weekend (Ju 12 was a Saturday) I examined about 25 slippery elms; on only one did I find tightly rolled leaves and the predators, syrphid fly larvae, had cleaned them out. I collected two leaves which may have a few aphids left."

Eucallipterus tiliae (Linnaeus) Linden Aphid
Formerly placed in *Myzocallis*

ITHACA 8 Aug 1965, on *Tilia* sp. (Zett coll—JOP det). LUDLOWVILLE 12 Ju 1965, many trees examined but only a few aphids found on *T. americana* (LLP coll). MARGARET T. MORRIS STATE PARK 8 Aug 1964, on *Tilia* sp. (JOS coll).

SI: CLOVE LAKES PARK 16 Jl 1962, on *T. chordata* and CASTLETON CORNERS 23 Sept 1963, on *T. europea* (EAR coll).

Euceraphis betulae (Koch)
see *Euceraphis punctipennis* Zetterstedt

Euceraphis mucida (Fitch)

OSWEGO Co 10 Jl 1964, 1 alata, in MT (Gonz coll—JOP det). ITHACA 23 Jl 1963, on *Betula lenta* (LLP coll—Ole Heie det).

Euceraphis punctipennis Zetterstedt European Birch Aphid
Formerly identified in this country as *E. betulae* (Koch).

MIDDLEPORT 28 May 1962, on birch leaves (Donald H. Moore coll—1 slide in USNM with 2 alatae, 1 aptera; LMR det). NY—"A woolly birch aphid produced young and build up has begun." [CEIR 14 (23):584, 8 Ju 1964].

Eulachnus agilis (Kaltenbach) or **E. rileyi** (Williams)

ITHACA 28 May 1865, on *Pinus sylvestris* (Zett coll—JOP det).
NORTH LANSING 9 Ju—16 Aug 1965, 1 alata, on sticky trap in bean field (Zett coll—JOP det).

Forda olivacea Rohwer

see *Forda trivialis* Passerini

Forda trivialis Passerini

ITHACA 12 Ju—16 Aug 1965, alata, in sticky trap in bean field (Zett coll—JOP det).

***Geocica pellucida** (Buckton)

Formerly identified in this country as *G. utricularia* (Passerini)

OSWEGO Co 1 alata, in MT 10 J1 1964 (Gonz coll—JOP det). ITHACA 12 Ju—16 Aug, 13 alatae and NORTH LANSING, 9 Ju—16 Aug 1965, 21 alatae, in sticky traps in bean fields (Zett coll—JOP det).

***Glabromyzus howardii** (Wilson)

Poison Ivy Aphid

This aphid was originally placed in *Amphorophora* but has also been considered to belong in *Rhopalosiphum* and *Sitomyzus*.

The earliest record from NEW YORK, presumably of this aphid, is from ITHACA 21 J1 1939, on poison ivy (Roy Hansberry coll—?Griswold det as *Rhopalosiphum rhois*).

Dr. Clyde F. Smith determined a collection from LI, BAY VIEW by Iatham 12 J1 1960, on poison ivy as *Rhopalosiphum* n. sp. Dr. Smith wrote me on 20 Apr 1967 that the aphid from poison ivy he had been considering as a new species is probably the same as Richards discusses in his paper in Can. Ent. 92(10):327, 1960 as *Amphorophora howardii* Wilson. He says however "to date I have not been able to find this on an alternate host nor have I had time to make a detailed study of this group. Certainly if they are the same then *howardii* would be placed in *Sitomyzus*." Dr. Hille Ris Lambers (*Hilgardia* 37, 15:587, 1966) says "Provisionally the name *Glabromyzus howardii* could be applied to this poison ivy aphid." Dr. H. L. G. Stroyan, in listing many aphids collected by him in the U.S. in 1966, records two collections made by Dr. Smith and himself on poison ivy and another by himself on "a tall grass"—all in NORTH CAROLINA and gives these under the name of *Glabromyzus howardii* Wilson.

The only other records of this poison ivy aphid in NY are from LI: GREENPORT 30 Ju, 7 J1 1962, 23 Ju 1963. SOUTHDOLD 25 Ju, 10 J1 1963. ORIENT 26 Ju, 5 J1 1962; 23 Sept 1965 (oviparae present); J1 1966 (all RL coll).

Hamamelistes spinosus Shimer

Spiny Bud Gall of Witch Hazel

PANTHER LAKE, OSWEGO Co 17 Ju 1964, abundant on *Betula populifolia* (LLP coll). MALLORYVILLE 23 Ju 1963, in corrugated leaves of *B. lutea*

(LWA coll). ITHACA 23 Ju 1963, in corrugated leaves of *B. lenta* (LLP coll). LUDLOWVILLE 4 JI 1963, on *B. lutea* (LLP coll—Ole Heie det) and 6 Aug 1966, in spiny galls on witch hazel (LLP coll). ALBANY 17 Ju 1951, many spiny bud galls on witch hazel (NY State Mus Coll).

Hormaphis hamamelidis (Fitch)

SI: CLOVE LAKES PARK 22 Aug 1961, on witch hazel (EAR coll).
LI: GREENPORT 6 Aug 1965, a few on witch hazel (RL coll).

Hyadaphis foeniculi (Passerini) Honeysuckle and Parsnip Aphid
Formerly *Rhopalosiphum conii* Davidson

ROCHESTER 7 Oct 1962, 1 alate male and 1 alate vivipara, accidental on *Rubus odoratus* (HLG coll—LMR det); 10 Nov 1963, on ornamental *Lonicera* sp. (HLG coll—Eastop det). LOCKPORT 3 Aug 1966, on *Pastinaca sativa* (LLP coll—LMR det). NORTH LANSING 15 Ju–7 Aug 1964, 1 alata, in sticky trap in bean field (Zett coll—JOP det). ITHACA (FOREST HOME) 2 Ju 1958, on *Lonicera xylosteum* (John Graham coll); 2 Nov 1963, “accidental” on *Delphinium alatum* (LLP coll—MacG det).

LI: GREENPORT 2 JI 1961, in seedheads on *Heracleum maculatum*; 9 JI 1961, 11 Aug 1963, 5 JI 1964, 6 Aug 1965, many on *Cicuta maculata* (MDL det latter with query—“unguis only a little longer than base of V”); 26 Sept 1963, common on *Sium suave* (MacG det). ORIENT 28 Oct 1964, 1965, on *Lonicera tartarica*. MATTITUCK 22 May 1961, on *L. semper-virens*. All LI colls by RL.

Hyadaphis pseudobrassicae (Davis) Turnip Aphid
Formerly in *Rhopalosiphum*

European workers have called this *Hyadaphis* (*Lipaphis*) *erisimi pseudobrassicae* (Davis).

OSWEGO Co 3 JI, 21, 28 Aug 1964, alatae, in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju–1 Aug 1964, about 85 alatae, on sticky traps in bean fields (Zett coll—JOP det); 28 Ju–16 Aug 1965, 235 alatae; ITHACA 28 Ju–16 Aug, 543 alatae; CANASTOTA 1 JI–19 Aug, 481 alatae—all in sticky traps in bean fields in 1965 (Zett coll—JOP det).

LI: FARMINGDALE 20–26 Ju and 21 Sept, alatae, in MT and 28 Nov 1949, on stock (GVJ coll—LMR det). MASPETH 8 JI 1917, on turnip (Olsen coll); this and the 1938 collection by Hansberry (see NYL p. 392) are the only 2 records of the turnip aphid on turnip in NY. GREENPORT 23 JI 1961, on radish. ORIENT 12 Aug 1964, many on sorghum. All LI colls, except FARMINGDALE by RL.

***Hyalomyzus colinsonii** Pepper

In his letter of 11 Ju 1963, Dr. Hille Ris Lambers suggests that *H. eriobotrae* in the NYL is probably this species.

Hyalomyzus (or Utamphorophora) humboldti (Essig)Formerly *Myzus physocarpus* Pepper

ITHACA 29 JI 1965, 2 apterae (1 very small), on *Physocarpus opulifolius* (LLP coll).

Hyalopteroides humilis (Walker)

Orchardgrass Aphid

LI: ORIENT 15 Nov 1961, 25 Apr 1962, 15 Oct 1963, on *Dactylis glomerata* (RL coll); may be in part *H. pallida* (Theob.). ORIENT 14 Oct 1963, 4 apterae, on *Muhlenbergia schreberi* (RL coll—LMR det).

***Hyalopteroides pallida** (Theobald)

LI: ORIENT 8 Nov, on *Centaurea cyanea* and 15 Nov 1961, on *Dactylis glomerata* (RL coll—JOP det); 15 Nov 1961 and 16 Oct 1963, apterae, some may be *H. humilis* (RL coll—JOP det).

Hyalopterus atriplicis (L.)see *Brachycolus atriplicis* (Linnaeus)**Hyalopterus pruni** (Geoffroy)

Mealy Plum Aphid

SALT POND, N. OF TULLY VALLEY, ONONDAGA CO, 10 JI 1963, on *Phragmites communis* (LLP coll). NORTH LANSING 15 Ju–7 Aug 1964, 108 alatae, in sticky traps in bean fields (Zett coll—JOP det).

SI: CASTLETON CORNERS 1–7 Nov 1960, 26 males, 8 viviparous alatae, in MT (EAR coll—JOP det).

LI: FARMINGDALE 18–25 JI 1960, 6 alatae; 2–5 Aug 1963, 1 alata, in MT (GVJ coll—LMR det). ORIENT 15 JI, apterae, in curled top of *Atriplex patula* and 25 JI 1961, a few mostly immature, on *Phragmites communis* (JOP det); 25 Ju, many on *Prunus maritima* and 21 Ju 1965, very many, 20 Nov 1964, a few and 18 Ju 1966, on *P. hortulana*. SOUTHOLD 2 JI 1964, 23 Ju 1966, many on *P. hortulana*; 19 JI 1962, a few, on *Phragmites communis*—all LI except FARMINGDALE are RL coll.

Hyperomyzus pallidus (Hille Ris Lambers)

LOCKPORT 27 Sept 1961, 1 stray alata, *Smilacina racemosa*, 28 Oct 1961, 2 stray alatae, on *Jeffersonia diphylla* and MIDDLEPORT 27 Sept 1961, stray alatae, on *Aquilegia vulgaris* (LLP coll—CFS det). LOCKPORT 15 Oct 1965, on *Saxifraga (Bergenia) crassifolia* (LLP coll—MacG det).

On 11 June 1963, Dr. Hille Ris Lambers kindly commented on my note in connection with this aphid as given in the NYL as follows: "This species was described not from *Sonchus oleraceus* as given in the NY List but from *S. arvensis*, its summer host. Its winter host is *Ribes grossularia* in Europe."

Hysteroneura setariae (Thomas) Rusty Plum Aphid
OSWEGO Co 1 alata, in MT in 1964 (Gonz coll—JOP det).

SI: CASTLETON CORNERS Oct 1962, 1 alata, in MT (FAR coll—ANT det).

LI: FARMINGDALE 6–20 Oct, 1 alata, 20–27 Oct, 1 male, and 28 Oct–3 Nov 1961, 1 alata, in MT (GVJ coll—LMR det); 20 Ju 1951 or 1956, on *Prunus maritima* (VJ coll—LMR det). RIVERHEAD 11 Jl 1963, on *Panicum clandestinum* (RL coll).

***Iziphya flabella** (Sanborn)

CANASTOTA alatae, in sticky traps Ju–Jl 1964, 1965 (Raymond Louie coll—JOP det). ITHACA 12 Ju–16 Aug, 6 alatae, CANASTOTA 1 Jl–18 Aug, 4 alatae, and NORTH LANSING 9 Ju–16 Aug 1965, 6 alatae, in sticky traps (Zett coll—JOP det).

Kakimia sp.

SI: CASTLETON CORNERS 21 Nov 1960, apterae, on scapes of *Taraxacum officinale* (EAR coll—ATO det).

Kakimia essigi Gillette & Palmer Black-backed Columbine Aphid

OSWEGO Co 28 Aug, 4 Sept 1964, 31 alatae, in MTs (Gonz coll—JOP det). ROCHESTER, 2 Nov 1963 on *Aquilegia* sp. (HLG). NORTH LANSING 15 Ju–7 Aug 1964, 1 alata, in sticky trap in bean field (Zett coll—JOP det). ITHACA 26 Ju 1936, many on *Aquilegia* sp. (MDL coll).

Kakimia purpurascens (Oestlund)

ROCHESTER 1 Jl 1962, 5 Jl 1963, on *Thalictrum dioicum* (HLG coll).

LI: GREENPORT 3 Ju 1963, several apterae, on *T. revolutum* (RL coll).

*?**Kakimia thomasi** (Hottes & Frison)

CANASTOTA, a few alatae in Jl and Aug 1965, in sticky traps (Raymond Louis coll—JOP det with query).

Lachnus salignus (Gmelin)

Giant Willow Aphid

Placed by many authors in *Tuberolachnus*.

LUDLOWVILLE 26 Oct 1963, 19 Oct 1965, on bark of *Salix* sp. (LLP coll).

SI: CASTLETON CORNERS 6 Sept, on *S. discolor* and 6 Oct 1961, on *S. nigra* (FAR coll).

Liosomaphis berberidis (Kaltenbach)

Barberry Aphid

Formerly in *Rhopalosiphum*

LOCKPORT 27 May 1945, on *Berberis thunbergii* (LLP coll). STAMFORD 7 Jl 1963, a few apterae, on *B. thunbergii* (LWA coll).

Longicaudus trirhodus (Walker)Formerly in *Pergandeidia*

ROCHESTER 1 JI 1962, 5 JI 1963, alatae and apterae, 24 Aug 1963, alatae, apterae, and 31 JI 1965, on *Aquilegia canadensis* (IILG coll). LUDLOWVILLE 24 Aug 1963, alatae, apterae, on *A. canadensis* (LLP coll).

SI: CASTLETON CORNERS 17 JI 1962, several alatae, apterae, on *Aquilegia* sp. cult (EAR coll).

LI: MATTITUCK 28 JI 1961, on *A. canadensis* "in patches clustered on both sides of leaves, alatae few" (RI. coll—JOP det). ORIENT 23 Ju 1964, on *A. longissima* "very common, no alatae" and 27 Ju 1964, on *A. coerulea* (RL coll).

Longistigma caryae (Harris)

Giant Bark Aphid

LI: BROOKLYN (PROSPECT PARK) Oct 1951, on sycamore (Armond Lepore coll—MDL det from 4 slides of 2 alatae and 5 apterae in University of Delaware Collection).

Macrosiphoniella spp.

ROCHESTER 22 JI 1962, on *Anthemis cotula* (HIG coll—ATO det). STAMFORD 2 Sept 1963, on *Achillea millefolium* (LWA coll—ATO det). HOBART (GUN HOUSE HILL) 10 Aug 1963, on *Tanacetum vulgare* (LWA coll—ATO det).

LI: ORIENT 13 Oct 1961, apterae, on *Chrysanthemum morifolium* and 10 Nov 1961, apterae, on *Gaillardia (aristosa) pulchella* (RL coll). GREENPORT 1963, on *Achillea millefolium* (RL coll—ANT det).

*?**Macrosiphoniella (Paczoskia)** sp.

TUG HILL, LEWIS Co, 10 Aug; 7 mi SE of MIDDLEPORT 22 JI; SOUTH GILBOA, SCOHARIE Co, 26 Sept; NORTH LANSING 21 Aug; APALACHIN 5 Aug—all on *Anthemis cotula* (LLP coll 1965—MacG det with query).

***Macrosiphoniella abrotani** (Walker)

TUG HILL, LEWIS Co, 10 Aug 1965, on *Anthemis cotula* (LLP coll—MacG det). WILLET, CORTLAND Co, 28 JI 1965, on *A. cotula* (LLP coll—MacG det). 7 mi SE of MIDDLEPORT, 22, 27 JI 1965, on *A. cotula* (LLP coll—MacG det). ITHACA 12 Ju–16 Aug 1965, 57 alatae, in sticky traps (Zett coll—JOP det). OSWEGO Co 22–29 JI 1963, 2 alatae; 21–28 Aug, 8 alatae and 18–25 Sept, 3 alatae—all 1964 in MTs (Gonz coll—JOP det).

Macrosiphoniella absinthii (Linnaeus)

LOCKPORT 22, 27 JI 1965, abundant on terminals of *Artemisia schmidtiana nana* (LLP coll—MacG det). It is probable that the following record in the NYL refers to this species—*Macrosiphoniella* n. sp.? LOCKPORT 4

Aug 1960, on *Artemisia schmidtiana nana* (LLP coll—CFS det with query).

Macrosiphoniella artemisiae (Fonscolombe)

see *Macrosiphoniella coweni* (Hunter)

Macrosiphoniella coweni (Hunter)

Formerly *Macrosiphoniella artemisiae* (Fonscolombe)

WEST NYACK 12 JI 1959, apterae, on *Artemisia vulgaris* (Olsen coll—MDL det, teste Stroyan; 2 slides with 11 apterae).

Macrosiphoniella millefolii (De Geer)

BLOODY POND, CORTLAND CO, 17 Aug 1965, on *Chrysanthemum leucanthemum* and *Achillea millefolium*. LUDLOWVILLE 16 Sept 1965, on *A. millefolium*. NORTH LANSING 7 JI 1965, on *A. millefolium*. VEGA, DELAWARE CO, 29 JI 1965, on *A. millefolium*, an unusually large coarse plant. SOUTH GILBOA, SCOHARIE CO, 26 Sept 1965, on *A. millefolium* and *Anthemis cotula*. ITHACA C U CAMPUS, 13 Oct 1965, on *Achillea millefolium* var. *rubra*. All LLP coll—MacG det. ROCHESTER 21 JI 1962, mature apterae and some immatures, on *A. millefolium* var. *rubra* (HLG coll—ATO det).

LI: GREENPORT 12 JI 1963, 1 mature aptera, several immatures, on *Achillea lanulosa* (RL coll).

Macrosiphoniella sanborni (Gillette) Chrysanthemum Aphid

CLINTON 2 Jan 1918 (? in greenhouse), on chrysanthemum (R. Kilbourne coll—1 slide in CU Coll). ROCHESTER 5 Sept 1965 and 15 Oct 1966, on chrysanthemum cult. (HLG coll). ITHACA, CU CAMPUS, 13 Oct 1965, on *Chrysanthemum morifolium* (LLP coll—MacG det). POUGHKEEPSIE 12 Sept 1964, on chrysanthemum (GOS coll), and a few on chrystanthemums in a garden 24 Oct 1965 (MDL coll).

LI: GREENPORT 5 Nov 1963, on Chrysanthemum (RL coll). ORIENT 18 Oct 1963, on *C. segetum* (MacG det) and 9 Oct 1964, JI 7, 11 1966, on *C. morifolium* (RL coll).

Macrosiphoniella tanacetaria (Kaltenbach)

LOCKPORT 22 JI 1965, on *Tanacetum vulgare*, TURIN, LEWIS CO, 18 Aug 1965 (MacG det) and JAM POND, CHENANGO CO, 28 JI 1966 (LLP coll). GUN HOUSE HILL, IIOBART, 10 Aug 1963, apterae on *Tanacetum vulgare* (LWA coll—MacG det).

***Macrosiphoniella tapuskae** (Hottes & Frison)

CANASTOTA, a number of alatae in sticky traps in July 1965 (Raymond Louie coll—JOP det).

Macrosiphum sp.

LI: GREENPORT 7 Ju 1963, immatures, on *Helleborus viridis* (RL coll—MacG det).

Macrosiphum spp.

ROCHESTER 1 JI 1962, 2 alatae, 1 mature aptera, 2 small immature apterae, on *Linaria canadense* (HLG coll); 26 Sept 1963 on *Epilobium angustifolium* (HLG coll—ATO det); 20 JI 1962, 4 alatae, 2 apterae, on *Sonchus asper* (HLG coll—ATO det who comments "need color notes; this is an interesting collection"). ITHACA 30 Ju 1963, on *Chrysanthemum leucanthemum* (LLP coll—MacG det). POUGHKEEPSIE fall 1962, apterae all immature except one, on potted orange plant indoors (GOS coll—LMR det). WEST NYACK 10 Oct 1960 on *Oenothera* sp. (Olsen coll—ATO det).

SI: NATURE TRAIL 30 Nov 1960, on *Cirsium* sp. (EAR coll—ATO det). CASTLETON CORNERS 16 JI 1962, on *Impatiens capensis*, 4 alatae, immature apterae (EAR coll—ATO det who notes "need color notes").

LI: ORIENT 18 Ju 1963, on *Tanacetum vulgare* (RL coll—ATO det). BAY VIEW 9 Ju 1963, on *Celastrus scandens* (RL coll—ATO det); 31 JI, on *Amaranthus deflexus*, 1 mature aptera and 30 Aug 1965, 6 apterae, on *Centranthus ruber* (RL coll); 10 Ju 1964 many apterae, a few alatae, on *Corylus americana* (RL coll—LMR det who notes "not *coryli* Davis"). GREENPORT 6 Aug 1965, on *Arisaema triphyllum* (RL coll—ATO det).

Macrosiphum agrimoniella (Cockerell)

Agrimonia gryposepala was given in the NYL as a food plant for *Macrosiphum euphorbiae* (Thomas). This is based on a misdetermination of the aphid.

LI: GREENPORT, ORIENT 30 Ju 1962 "pupae" and apterae, on *Agrimonia gryposepala* (RL coll). RIVERHEAD 11 JI 1963, 1 slide of 6 apterae, 1 alata made by MDL from *A. gryposepala* but det with somewhat of a query.

Macrosiphum albifrons Essig

Essig's Lupine Aphid

ROCHESTER 25 Aug, 30 Sept 1962 several alatae, apterae, on cult *Lupinus* sp. and on *L. perennis* 19 Aug, 16 Oct 1963 apterae, on cult lupine (HLG coll).

Macrosiphum avenae Fabricius

English Grain Aphid

Formerly widely known as *M. granarium* (Kirby)

OSWEGO Co 21 Aug 1964, alatae in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju-7 Aug 1964, 28 alatae; 28 Ju-16 Aug 1965, 75 alatae. ITHACA 28 Ju-16 Aug, 53 alatae and CANASTOTA, 29 alatae; all, including N. LANSING from sticky traps in bean fields (Zett coll—JOP det). LUD-

LOWVILLE 4 JI 1965, 3 apterae, on *Poa trivialis* (LLP coll). STAMFORD 11 JI 1964, on *Glyceria grandis* (LWA coll).

SI: CASTLETON CORNERS 23 Nov 1963, 5 specimens, on tall bearded *Iris*, probably "accidental" (EAR coll).

LI: FARMINGDALE 13-20 Oct 1960, 1 alata, in MT (GVJ coll—LMR det). ORIENT 21 JI 1961, "accidental", on tomato (RL coll—JOP det); 12 Ju 1963, on *Secale cereale* (second rec for NY on rye), (RL coll); 12 Ju 1963, on *Galium aparine* (RL coll—MacG det).

Macrosiphum baccharidis Clarke

see *Dactynotus erigeronensis* subsp. *baccharidis* [HRL synonymy in Hilgardia 37(15):583, 1966]

Macrosiphum californicum (Clarke)

NORTH LANSING 27 Aug 1966, on *Salix* sp. (LLP coll).

LI: GREENPORT 29 JI 1962, on *S. humilis* (det ATO); 19 Ju 1963 several apterae, on *S. nigra*; 29 JI 1962, 16 JI 1963, 10 apterae, several mature, on *S. discolor*. BAY VIEW 25 Ju 1961 1 aptera, on *S. nigra*. ORIENT 27 Ju 1965, about 40 apterae, on *S. caprea* (all RL coll).

About the latter collection Latham writes: "The *Salix caprea* is a small tree in our yard which I grew from a slip from a greenhouse in GREENPORT. I set it out in 1958—the year I got this aphid for you for the first time. This willow has escaped and grows wild near the GREENPORT woods but is rare. I have never found any aphids on these."

Macrosiphum carpnicolens Patch

MCLEAN RESERVATION, TOMPKINS Co, 2 JI 1963, about 45 apterae from very young to several matures, on very young leaves of *Carpinus caroliniana* (LLP coll). WILD FLOWER PRESERVE, SLATERVILLE, 2 apterae, on *C. caroliniana* (LWA coll). ITHACA 1 JI 1964, a number of apterae, on *C. caroliniana* (LLP coll). DOWNSVILLE, DELAWARE Co, 29 JI 1965, on *C. caroliniana* (LLP coll—MacG det).

Dr. M. E. MacGillivray [Ann. Ent. Soc. Am. 61 (2):341, 1968] has erected a new genus, *Neocorylobium*, to receive this species.

***Macrosiphum coryli** Davis

LI: ORIENT 15 JI 1962, about 15 apterae, on *Corylus americana* growing in a woods and 21 JI 1963 (RL coll—ATO det); 10 JI 1964 many apterae, a few alatae (RL coll—LMR det as *Macrosiphum* sp. "definitely not *coryli*").

Macrosiphum crataegi (Monell)

Four-spotted Hawthorn Aphid

In the NYL this species was placed in *Amphorophora*.

LI: GREENPORT 23 JI 1961; 24 Ju 1962; 24 Sept 1963; 4 Aug, 22

Sept, 15 Oct 1964; 15 Oct 1965—all on *Crataegus crusgalli* (RL coll).
ORIENT 1 Ju 1965, on *C. oxycantha* (RL coll).

Macrosiphum dirhodum (Walker)

see *Metapolophium dirhodum* (Walker)

Macrosiphum euphorbiae (Thomas)

Potato Aphid

The potato aphid is here recorded from 28 plants of which 16 are new for NY. These latter are marked with an asterisk.

OSWEGO Co 21, 28 Aug 1964, alatae, in MT (Gonz coll—JOP det).
LOCKPORT 17 Nov 1959 is the collection of this aphid given in the NYL on *Senecio cruentus* (in error for *S. vulgaris*); LLP made the collection who commented "aphids covered with film of ice when collected but active when ice melted." DRYDEN 23 Jl 1939, on **Papaver somniferum* (F. H. Butt coll). STAMFORD 1 Nov 1963 a mature aptera, on **Salvia splendens* (I.WA coll). ROCHESTER 1 Jl, on **Aquilegia* sp. cult; 21 Jl, on **Apocynum androsaemifolium*; 22 Jl, on *Gladiolus* sp. and 9 Aug 1962, on *Zinnia* sp. (HLG coll); 28 Jl 1963, on **Epilobium angustifolium* (HLG coll—Eastop det with query); 27 Sept 1966, on *Senecio vulgaris* (HLG coll). ITHACA 5 Oct 1962, on *Iris* sp. and 2 Nov 1963, on **Delphinium elatum* (LLP coll); CORNELL CAMPUS 27 Sept 1963, on **Salvia farinacea* (LLP coll). LUDLOWVILLE 31 Aug 1963, on *Amaranthus retroflexus* (LLP coll—MacG det); 20 Aug 1964, on seed pods only of *Apocynum cannabinum* (LLP coll). POUGHKEEPSIE summer of 1962, on *Iris* sp. (GOS coll); Jl 1964, on *Rosa* sp. (GOS coll); 12 Sept 1964, 16 Jl 1965, a number of alatae, on *Petunia* sp. (GOS coll). Fall of 1962, a number of apterae, on a potted orange plant in house (GOS—LMR).

SI: CASTLETON CORNERS 19 Nov 1960, on *Aquilegia* sp.; Nov 1961, 1963, 6 Jl 1964 May, Nov 1962, on bearded **Iris* sp. (EAR coll). FIRE ALARM 20 Aug 1961, 1 alata, in MT (EAR coll).

LI: FARMINGDALE 20 Oct–2 Nov 1960, 1 alata; 22–31 May, 14 alatae, 4–12 Jl, 1 alata, 14–20 Sept, 1 alata, 19–23 Aug, 2 alatae, 36 Sept, 1 alata—all 1963 in MTs (GVJ coll—LMR det). EAST MARION 1962, on **Bidens discolor*. PECONIC 20 Jl, on *Asclepias syriaca* and 25 Jl, common on potatoes (JOP det). GREENPORT 30 Jl 1962, on *Agrimonia gryposepala* (ATO det); 26 Sept 1963, several apterae, on **Polygonum hydropiper*. ORIENT 1–15 Ju 1962, in MT; 20 Ju 1962 on **Martynia louisiana*; 11 Jl 1961, on **Lactuca canadensis*; 15 Jl 1961, common on *Amaranthus retroflexus*; 20 Jl 1961, many alatae, on *Zinnia elegans*; 21 Jl 1961, on tomato and *Calendula officinalis*; 11 Jl 1961, green and pink apterae, on potato (all JOP det); 12 Jl, on *Potentilla monspeliensis*, 17 Jl, on tomato and 19 Jl 1962, many on *Yucca filamentosa*; 17 Oct, a very few on okra and 11 Oct 1963, 2 apterae, on **Melope trifida grandiflora* and 23 Jl 1965, several alatae, apterae, on **Centranthus ruber*; 26 Ju, 7 Jl, 15 Nov 1966,

over 30 apterae, on **Monarda didyma*; 28 Ju, on **Tulipa gesneriana* and 7 J1 1966, on **Iris prismatica* (all except FARMINGDALE RL coll).

Correction to NYL—The following record "[ITHACA 9 Sept 1927, 2 apterae on lamb's quarters in greenhouse (P. J. Chapman coll—MDL det with query) given under *Macrosiphum dirhodum* is referable to the potato aphid.

"Numerous colonies developing in some tomato fields in NIAGARA, ORLEANS and GENESEE COUNTIES." [NY Wkly Rpt 8 July in CEIR (15) : (29) :791, 1965].

***Macrosiphum gaurae** (Williams)

ITHACA 24 J1 1963, on *Gaura lindheimeri* (LLP coll—MacG det).
LUDLOWVILLE 19 Sept 1964, on *G. biennis* (LLP coll—MacG det).

With regard to this latter collection Dr. Pechuman writes "*Guara biennis* is not supposed to be a common plant but it is present in abundance near my house. Every plant had apids so abundantly they appeared to be covered with green moss; large numbers of neidid bugs were among the colonies."

WEST NYACK 10 Oct 1960, several alatae, apterae, on *Oenothera* sp. (Olsen coll—MacG det).

SI: CASTLETON CORNERS 16 Sept 1961, 1 alata, several mature and immature apterae, on *Oenothera biennis* (EAR coll—MacG det).

Macrosiphum granarium (Kirby)

see *Macrosiphum avenae* (Fabricius)

***Macrosiphum kikapoo** Hottes and Frison

LUDLOWVILLE 19 Sept 1964 abundant, on one plant only of *Polygonatum pubescens* (LLP coll—MacG det).

LI: ORIENT 31 J1 1965, 1 alata, apterae, on *P. caniculatum* (RL coll—MDL det).

Macrosiphum lili (Monell)

Purple-spotted Lily Aphid

SI: NEW DORP 10 Sept 1962, on *Lilium speciosum rubrum* (EAR coll—ATO det).

LI: PECONIC 17 Aug 1958, on *L. superbum*. GREENPORT 11 Aug 1963, 6 Aug, 23 Sept 1965, on *L. superbum*; 6 Aug 1965, on *L. canadense*. ORIENT 4 Oct 1962, on *L. henryi*; 23 Sept 1963, 31 J1 1965 (very many) and 15 J1 1966, on *L. superbum*; 3 Aug 1965, on *L. tigrinum* (all RL coll).

Macrosiphum liriodendri (Monell)

Tuliptree Aphid

AMHERST, ERIE Co, 28 J1 1965, on *Magnolia acuminata*, heavy on some trees but totally lacking on others (W. T. Johnson coll). ITHACA 28

Ju 1965, heavy on tuliptree (W.T. Johnson coll). WEST NYACK 14 JI, 3, 21 Aug 1961, on tuliptree (Olsen coll).

SI: GRASSMERE 2 Aug 1961, on tuliptree (EAR coll).

LI: GREENPORT 20 Ju and ORIENT 12 Oct 1963, on tuliptree (RL coll).

*?*Macrosiphum macrosiphum* (Wilson)

see *Acyrtosiphon macrosiphon* (Wilson)

**Macrosiphum pallidum* (Oestlund)

M. pseudorosae is a synonym MacGillivray [Ann. Ent. Soc. Am. 61 (2): 338, Mar 1968].

LI: ORIENT 5 Ju 1966, on *Geum virginianum* (RI. coll—MacG det).

Macrosiphum pechumani Macgillivray

This striking looking aphid with milky white body and black head, antennae, cornicles and cauda was described by Dr. M. F. MacGillivray in the Canadian Journal of Zoology 44:1085–1088, 10 figures, Nov 1966. The material from which the species was described is as follows:

MIDDLEPORT 19 Sept 1960, apterous viviparous and oviparous females, on *Smilacina racemosa* (LLP coll). LOCKPORT 18 Sept 1960 and 11 Sept 1964, apterous and alate viviparous females, on *Smilacina racemosa* (LLP coll). ROCHESTER 4 Sept 1964, alate viviparous females and alate males, on *Convalaria majalis* (HLG coll); 1 Oct 1963, oviparous females from *Hibiscus* sp. (HLG coll); 26 Oct 1963, alate male and oviparous females from *Fragaria virginiana* (HLG coll); 24 Aug 1965, alate males from *Pyrola elliptica* (HLG coll).

Not included in the above paper are: ITHACA, CORNELL CAMPUS 13 Oct 1965, fairly common on *C. majalis*, apterae only and no alatae developed in the laboratory (LLP coll—MacG det Oct 1966); also 18 Oct 1966, apterae only (LLP coll).

About the aphids Mr. Gibson found in Sept 1964 on his *convalaria*, he wrote me as follows: "For about 30 years there has been a bed of lily-of-the-valley, measuring approximately 1½ x 12 feet, alongside my house. It is fertilized every spring and the haulm burnt every year. Aphids have never been noted previously when I have pulled off the berries each year to keep them from children. When the aphids were collected there was 'standing room only' all over the plants, on both surfaces of the leaves, but the plants were not being damaged. By counting the leaves per square foot, measuring average area of leaf covered and estimating number of large and small aphids per square inch, I arrived at a figure of one million aphids in this small bed."

Mr. Gibson further comments: "I have *Smilacina racemosa*, *S. stellata*, *Clintonia borealis*, *Maianthemum canadense*, *Polygonatum commutatum*, *P. biflorum* and *Streptopus amplexifolius* (all members of the lily-of-the-valley family). I don't recollect ever seeing any aphid on them—and they were all searched in my collecting years."

In her paper Dr. MacGillivray states that specimens were examined by Dr. Hille Ris Lambers. He doubted that *C. majalis* was its preferred host since that plant is native to Europe and this aphid does not occur there and that *Smilacina racemosa* is more likely to be the original host.

***Macrosiphum pseudocoryli** (Patch)

LUDLOWVILLE 10 JI 1965 and DANBY 5 JI 1965, on *Ostrya virginiana* (LLP coll—MacG det).

Macrosiphum pseudodirhodum Patch

See *Acyrtosiphon pseudodirhodum* (Patch)

On April 5, 1966, Dr. Pechuman wrote me that he has found in Dr. Griswold's correspondence that she had reared parasites from this aphid which were determined by A. B. Gahan as the braconid, *Ephedrus incompleta* (Prov.) and the pteromalid, *Asaphes americana* (Girault).

In the NYL is the following record; *Macrosiphum* n. sp. near *pseudodirhodum* Patch: ITHACA 16 Ju 1939, on *Spiraea latifolia* (T. R. Hansberry coll—several, slides in CU Coll). In July 1961 LMR noted that "this appears to be *M pseudodirhodum* Patch but we have no examples of this species and it is not recognizable from the description." ATO has since seen these slides and believes them to represent a n.sp. near *pseudodirhodum*.

GUNHOUSE HILL, HOBART, 6 JI 1963, 1 slide made with 2 adult apterae, on *Spiraea latifolia* (LWA coll—MDL det). It is presumed this collection represents this same n. sp.

LUDLOWVILLE 31 Aug, on *Impatiens pallida*, 10 Sept 1963, on *I. biflora* (LLP coll—MacG det with query). OSWEGO Co 3 JI 1964, alata, in MT (Gonz coll—JOP det with query). It is believed that the "query" as to the specific identity of each record should be ignored.

***Macrosiphum ptericolens** Patch

TONAWANDA INDIAN RESERVATION, ERIE Co, 18 JI, 19 Aug, 3 Sept, 8 Oct 1960, on *Pteridium aquilinum* var. *latiusculum* (LLP coll—ATO det). NORTH LANSING 15 Ju–7 Aug 1964, 54 alatae, in traps in bean fields (Zett coll—JOP det with query). TURTLE POND, SAVANNAH, 25 Ju 1964, abundant on *Osmunda regalis*; "Two other species of ferns were growing so close that the fronds touched but they had no aphids." (LLP coll—MacG det with query). ROCHESTER 30 JI 1963, moderately numerous apterae, on *Pteridium aquilinum*, 31 JI 1963, on ostrich fern and maidenhair fern (HLG coll).

Macrosiphum rosae (Linnaeus)

Rose Aphid

LOCKPORT 25 Ju 1966, on terminals of *Ilex aquifolium* (LLP coll—LMR det); ROCHESTER 19 Oct 1963 on hybrid tea rose and 31 JI

1965, a few on cult rose (HLG coll); 23 Oct 1966, many apterae including oviparae, on hedge rose (HLG coll). SALT SPRINGS, near CARDIFF, ONONDAGA Co, 10 JI 1963, on *Dipsacus sylvestris* (LLP coll—MacG det). LUDLOWVILLE 22 Ju 1963, on *Rosa* sp. (LWA; LLP coll). POUGHKEEPSIE 18 JI (GOS coll), 24 Oct 1965 (MDL coll) fairly common on cult *Rosa* sp.

SI: CASTLETON CORNERS 17 Oct 1963, on hybrid tea rose (EAR coll).

LI: GREENPORT 20 Ju 1962, on cult rose and 25 Ju 1963, on *Rosa eleganteria* (*rubiginosa*). 17 JI 1966, on *Geum canadense* (I am not aware that the rose aphid has ever been recorded anywhere from *Geum*—MDL). SOUTHOLD 19 JI 1962, on *Rosa virginiana*. ORIENT 7 JI 1961, on *Ilex verticillata* “on leaves, very hard to find, some alatae” (JOP det); 2 JI 1962, on *Rosa carolina*; 30 Ju 1962, on *R. rugosa*; 23 Ju 1964, on *R. hugonis*; 7 Ju–3 Aug 1965, 7 colls, on cult rose; 7 JI 1966, on *Centranthus ruber* (MDL det) and 7 Aug 1966, on *Philadelphus coronarius* (ATO det). All LI colls by RL.

****Macrosiphum sanguinarium* Hottes & Frison**

LUDLOWVILLE 10 JI 1965, on *Sanguinaria canadensis* “abundant on under surface of leaves in fair sized colonies; young specimens white, larger ones dark red; very few intermediates” (LLP coll—MDL det).

****Macrosiphum sleesmani* Pepper**

see *Papulaphis sleesmani* (Pepper)

***Macrosiphum tiliae* (Monell)**

LUDLOWVILLE 22 Ju 1963, on *Tilia americana*, about 23 apterae—young, 2 matures and several “pupae” and 12 Ju 1965, restricted to underside of leaves of one low branch of a single *T. americana* (LLP coll). BOONVILLE 1 JI 1965, 1 mature, 9 very small apterae, on suckers around base of a *T. americana* (LLP coll).

****Macrosiphum venafuscae* Davis**

OSWEGO Co 21 Aug 1964, an alata, in Mt (Gonz coll—JOP det). LUDLOWVILLE 21 Aug 1965, on *Polygonum convolvulus* (LLP coll—MacG det).

***Masonaphis* (*Ericobium*) *pepperi* MacGillivray**

MCLEAN PRESERVE 2 JI 1963, on *Vaccinium corymbosum* (LLP coll—MacG det).

***Masonaphis* (*Masonaphis*) *rhokalaza* (Tissot & Pepper)**

ROCHESTER 20 JI 1963, on *Rhododendron* sp.; 20 JI 1963, on *R. nudiflorum* (HLG coll—MacG det). THE VLEI, FRANKLIN TWP, DELAWARE Co, 14 JI 1964, on seed pods only of *R. nudiflorum* (LLP coll—MacG det). MALLORYVILLE, 27 Ju 1963, on *R. nudiflorum* var *roseum* (LLP coll—

MacG det). MUD POND, OXFORD TWP, CHENANGO Co, 23 JI, 17 Aug 1965, on *R. nudiflorum* (LLP coll—MacG det). HECTOR LAND USE AREA, SCHUYLER Co, 21 JI 1966, on *R. nudiflorum* (LLP coll—MacG det).

Masonaphis (Oestlundia) rubicola (Oestlund)

Spotted Raspberry Aphid

TUPPER LAKE 8 Aug 1959, on red raspberry (S-S-T coll—CFS det). ROCHESTER 28 Aug 1965, 1 alata, on a wild raspberry, *Rubus* sp. and 16 May, 16 JI 1963, many on *Rubus strigosus* (HLG coll). NORTH LANSING 31 JI 1965 and LUDLOWVILLE 13 JI 1963 several alatae, apterae, on *R. idaeus strigosus* (LLP coll). ITHACA 12 Ju 1966, on *Rubus* sp. (wild raspberry) (NLH Krauss coll—LMR det).

***Masonaphis (Ericobium) spiraecola** (Patch)

GUN HOUSE HILL, HOBART, 6 JI 1963, on *Spiraea latifolia* (LWA coll).

***Mastopoda peteridis** Oestlund

LI: FARMINGDALE 28 Oct–3 Nov 1961, 1 male, in MT (GVJ coll—LMR det).

Melanocallis caryaefoliae (Davis)

Black Pecan Aphid

More recently placed in *Tinocallis*.

FORESTBURG 9 JI 1965, 1 alata, on *Carya ovata* and TICONDEROGA 18 Aug 1965, 5 alatae, on *C. ovata* (Bissell coll). WELLESLEY ID., JEFFERSON Co., 31 Aug–1 Sept 1966, very many (LLP coll—Bissell det). SALEM 6, 7 JI 1965, 3 alatae, on *C. ovata* and 6 JI 1965, 11 alatae on *C. cordiformis* (Bissell coll).

***Melanocallis fumipennella** (Fitch)

OSWEGO Co alatae, 10 JI 1964, in MT (Gonz coll—JOP det). ITHACA 12 Ju–16 Aug, 4 alatae and NORTH LANSING 9 Ju–16 Aug 1965, alata (or alatae), from sticky traps (Zett coll—JOP det).

?**Melaphis rhois** (Fitch)

NORTH LANSING 21 JI 1965, on *Rhus typhina* (LLP coll—MacG det with query).

Metopolophium dirhodum (Walker)

Rose Grass Aphid

Formerly in *Acyrtosiphon* and *Macrosiphum*

NORTH LANSING 15 Ju–7 Aug 1964, 4 alatae, in sticky traps (Zett coll—JOP det with a query).

LI: FARMINGDALE 3–17 Nov, 1 alata, in MT (GVJ coll—LMR det).

In the NYL this species is recorded from lamb's quarters in a greenhouse. This is in error. A re-examination of the specimens shows them to be *Macrosiphum euphorbiae*.

Micromyzus violae (Pergande)

see *Neotoxoptera violae* Pergande

Mindarus abietinus Koch

LI: FARMINGDALE 20 May 1954, on *Abies* sp. and PATCHOGUE 24 May 1955, on *A. concolor* (GVJ coll—LMR det).

***Monellia** n. sp. Bissell

LI: GREENPORT 6 JI 1965, on *Carya ovata* (RL coll—T. E. Bissell det).

Monellia caryae (Monell)

See *Monelliopsis caryae* (Monell)

Monellia caryaella Fitch

ITHACA 12 Ju-16 Aug 1965, 2 alatae, in sticky traps in bean fields (Zett coll—JOP det). SALEM 6 JI 1965, on *Carya* sp., 2 alatae, 3 alatae, on *C. cordiformis* (Bissell coll & det).

LI: GREENPORT 6 JI 1965, a few on *C. ovata* (RL coll—Bissell det).

Monellia costalis (Fitch)

Black-margined Aphid

OSWEGO Co 21 Aug 1964, alata, in MT (Gonz coll—JOP det). WELLESLEY ISLAND, JEFFERSON CO, 22 Aug 1963, 1 dark form alata, on *Carya ovata* (LLP coll). LUDLOWVILLE 8 JI 1965, 18 light forms, 2 dark forms and 1 Sept 1965, 2 alatae light form, 2 alatae dark form, on *C. ovata* (LLP coll—Bissell det). NORTH LANSING 15 Ju-7 Aug 1964, 5 alatae and ITHACA 12 Ju-16 Aug 1965, 4 alatae, in sticky traps in bean fields (Zett coll—JOP det). SLINGERLANDS 6 JI 1965, 3 alatae, on *Carya* sp. and SALEM 6-7 JI 1965, 16 alatae, on *C. ovata* and 41 alatae, on *C. cordiformis* (T. F. Bissell coll). FORESTBURG 9 JI 1965, 2 alatae, on *C. ovata* (Bissell coll).

SI: DRAKE AVE 28 Aug 1961, 3 alatae, 3 apterae, 1 "pupa", on "hickory" (pecan X hickory), (EAR coll). CASTLETON CORNERS 26 Aug 1961, on *C. tomentosa* and 1 Sept 1963, 2 alatae, on *C. cordiformis* (EAR coll).

LI: GREENPORT 6 JI 1965, 1 alata "drift", in *Ilex verticillata* (RL coll—MDL det) and 1 alata, on *Carya ovata* (RL coll—Bissell det).

***Monellia microsetosa** Richards

LI: GREENPORT 7 JI 1962, on *Carya (alba) tomentosa* (RL coll—T. E. Bissell det).

Monellia nigropunctata Granovsky

see *Monelliopsis nigropunctata* (Granovsky)

***Monelliopsis** n. sp. Bissell

WELLESLEY ID., JEFFERSON Co, 22 Aug 1963, 2 alatae, 1 "pupa", on *Carya ovata*; 31 Aug-1 Sept 1966 and 1 Sept 1966, 1 alata, 7 "pupae", on *C. cordiformis* (LLP coll—Bissell det). LUDLOWVILLE 16 Sept 1965, 1 ovipara, 2 "pupae", on *C. ovata* (LLP coll—Bissell det).

Monelliopsis caryae (Monell) American Walnut Aphid
(Formerly in *Monellia*)

OSWEGO Co 10 Ju 1964, alata, in MT (Gonz coll—JOP det with query). NORTH LANSING 15 Ju-7 Aug 1964, 13 alatae and ITHACA 12 Ju-16 Aug 1965, 2 alatae, in sticky traps in bean fields (Zett coll—JOP det). LUDLOWVILLE 14 Jl 1966, 3 alatae, on *Juglans nigra* (LLP coll—Bissell det). BELCHER 6 Jl 1965, 2 alatae, on *J. nigra* (Bissell coll).

Monelliopsis nigropunctata (Granovsky)(Formerly in *Monellia*)

WELLESLEY ID., JEFFERSON Co, 2 alatae, 6 "pupae" 22 Aug 1963, on *Carya ovata* and 31 Aug-1 Sept 1966, 4 alatae, 5 "pupae", on *C. ovata* (LLP coll—Bissell det). SALEM, 6-7 Jl 1965, 2 alatae, on *C. cordiformis*, 1 alata, on *C. ovata*, 4 alatae, on *Carya* sp. (Bissell coll). DOWNSVILLE 9 Jl 1965, 1 alata, on *C. cordiformis* (Bissell coll). FORESTBURG, 9 Jl 1965, 6 alatae, on *C. ovata* (Bissell coll). LUDLOWVILLE 16 Sept 1965, 4 alatae, 3 immatures on *C. ovata* (LLP coll—Bissell det).

LI: NORTHWEST 12 Sept 1948, on *C. cordiformis* (RL coll—Bissell det). SOUTHDOLD 9 Ju 1963, on *C. glabra* (RL coll—Bissell det). GREENPORT 19 Ju 1962, 2 "pupae", on *C. ovata*, 30 Ju 1962, 4 "pupae", on *C. glabra* and 9 Jl 1963, several on *C. cordiformis* (RL coll—Bissell det).

SI: CASTLETON CORNERS 26 Aug 1961, alatae, apterae, on *C. tomentosa* (EAR coll).

Mordwilkoja vagabunda (Walsh) Poplar Vagabond Gall Aphid
CROWN POINT 19 Jl 1963, on *Populus deltoides* (LLP coll—CFS det).**?Myzaphis rosarum** (Kaltenbach)

ROCHESTER 16 Jl 1963, 3 apterae, on *Rosa carolina* (HLG coll—Eastop det with query).

Myzocallis alhambra Davidsonsee *Myzocallis punctata* Monell**Myzocallis alnifoliae** (Fitch)

OSWEGO Co 10 Jl, 21, 28 Aug 1964, alatae, in MT (Gonz coll—JOP det). WELLESLEY ISLAND, JEFFERSON Co., 22 Aug 1963, about 20 apterae, on *Alnus serrulata* (LLP coll). RENSSELAERVILLE 28 Sept 1963, 8

alatae, 3 apterae, on *A. rugosa* (LLP coll). NORTH LANSING 15 Ju-7 Aug 1964, 2 alatae, in traps in bean fields (Zett coll—JOP det).

Myzocallis asclepiadis (Monell)

OSWEGO Co 3 JI, 21, 28 Aug, and 4 Sept 1964, alatae, in MT (Gonz coll—JOP det). ROCHESTER 22 JI 1962, on *Asclepias syriaca* var. *alba* (HLG coll). ITHACA 22 Aug 1965, on *A. syriaca* (Zett coll—JOP det); C. U. Campus 18 Aug 1966, on *A. syriaca* (LLP coll).

Myzocallis bella (Walsh)

ITHACA 12 Ju-16 Aug 1965, 2 alatae, in sticky traps in bean fields (Zett coll—JOP det).

LI: GREENPORT 14 JI 1963, common on *Quercus velutina* (RI. coll—ANT det).

Myzocalis coryli (Goeze)

ROCHESTER 1 JI 1962, on cult filbert; 23 Ju, 3 JI, and 19, 25 Aug 1963, on *Corylus* sp.; 31 JI 1965, on cult filbert "very plentiful, causing leaves to 'rain' honeydew" (all HLG coll). ITHACA 22 Aug 1958, 1 alata, 2 apterae, on *C. americana* (John Graham coll); 17 JI 1965, on *Corylus* sp. (Zett coll—JOP det).

Myzocallis discolor (Monell) Eastern Dusky-winged Oak Aphid

This aphid has only been recorded a few times in NY—once at ITHACA on white oak and, once each time, on LONG ISLAND at MASPETH on *Quercus prinus*, BABYLON on *Q. marilandica*, GREENPORT on *Q. stellata* and SOUND AVE on *Q. bicolor*—but presumably always only in moderate numbers.

During the summers of 1962 and 1963, John H. Brower studied populations of this aphid at the BROOKHAVEN NATIONAL LABORATORY at UPTON, LONG ISLAND. A section of the surrounding oak forest was subjected to chronic gamma radiation and it was found that populations as high as several hundred of this aphid per leaf were common on damaged leaves. This occurred only on white oaks. Although there were other oaks in the area (*Quercus coccinea*, *Q. velutina* and *Q. ilicifolia*), only a few nymphs were observed on these species. Several hundred trees were involved. Aphids were over 250 times more abundant in the area receiving a chronic dose of 9.5 roentgens of gamma radiation per day than at radiation levels below 6.0 r/day. In untreated stands of the forest this species was apparently absent.

At the point of highest radiation intensity the rather startling figure of 350,000 aphids per square meter of forest was attained. A sum of 10.5 million aphids was calculated for an area of forest just under 6 acres.

The specific physiological changes in the host plant, which probably caused the tremendous increase in aphid numbers, are not known. A likely hypothesis is the greater availability of soluble amino acids and

possibly other substances which may be present in higher concentration in radiation-damaged leaves because of mobilization for transport.

The detailed account of this phenomenal situation has been published by G. M. Woodwell and J. H. Brower entitled "An Aphid Population Explosion Induced by Chronic Gamma Irradiation of a Forest," in *Ecology* 48(4):680-683, 1967.

***Myzocallis exultans** Boudreaux and Tissot

SI: CLOVE LAKES PARK 28 Aug, 6 Sept 1961, on *Quercus palustris* (EAR coll—ANT det).

Myzocallis frisoni Boudreaux and Tissot

SI: CLOVE LAKES PARK 6 Sept 1961, on *Quercus palustris* (EAR coll—ANT det).

***Myzocallis fumipennella** (Fitch)

NORTH LANSING 15 Ju-7 Aug 1964, 1 alata in trap in bean field (Zett coll—JOP det).

Myzocallis melanocera Boudreaux and Tissot

SI: CLOVE LAKES PARK 15 Jl 1962, on *Quercus (rubra) borealis* (EAR coll—ANT det).

?**Myzocallis multisetis** Boudreaux and Tissot

SI: CLOVE LAKES PARK 20 Aug 1961, 2 apterae, on *Quercus velutina* (EAR coll—ANT det with query).

Myzocallis punctata (Monell)

Clear-winged Oak Aphid

Both W. R. Richards (Mem. Ent. Soc. Canada No. 44:57, 1965) and F. W. Quednau [Can. Ent. 98(4):418, 1966] consider *Myzocallis alhambra* Davidson to be a synonym of this species, the the explanation being that it is merely a melanistic form of *M punctata*.

OSWEGO Co 21 Aug 1964, alatae, in MT (Gonz coll—JOP det).
NORTH LANSING 15 Ju-7 Aug 1964, 94 alatae and ITHACA 12 Ju-16 Aug 1964, 10 alatae, also in trap (Zett coll—JOP det).

SI: FIRE ALARM 30 Aug 1961, 1 alata, in MT (EAR coll).

LI: RIVERHEAD 10 Jl 1963, on *Quercus illicifolia*. ORIENT 27 May 1963, on *Q. prinus* and 7 Ju 1963, on *Q. palustris*. All LI colls by RL.

Myzocallis tiliae (Linnaeus)

see *Eucallipterus tiliae* (Linnaeus)

Myzocallis ulmifolii (Monell)

Elm Leaf Aphid

This species has been often placed in *Tuberculatus*. ITHACA 12 Ju-16 Aug 1965, 7 alatae, in sticky traps (Zett coll—JOP det).

Myzocallis walshii (Monell)

ITHACA 12 Ju-16 Aug, 5 alatae, in sticky traps (Zett coll—JOP det); 24 Ju 1965, on *Quercus (rubra) borealis* (Zett coll—JOP det as “*walshii complex*”).

SI: CLOVE LAKES PARK 28 Aug 1961, on *Q. rubra borealis* and 6 Sept 1961, on *Q. palustris* (EAR coll—ANT det).

LI: GREENPORT 14 JI 1963, common on *Q. velutina* (RL coll—ANT det).

Myzus sp.

ROCHESTER 29 Aug 1965, apterae, on *Primula japonica* (HLG coll—ATO det).

LI: ORIENT 29 Ju 1966 a number of apterae, on *Spergularia marina* (RL coll—ANT det).

***?Myzus ajugae** Schouteden

LI: ORIENT 13 JI 1966, 1 nearly mature aptera, on *Ajuga reptans* (RL coll—MDL det with query).

Myzus cerasi (Fabricius)

Black Cherry Aphid

J.I: RIVERHEAD 16 Ju 1961, on *Prunus cerasus*; ORIENT 17 May 1963, in curled leaves of *P. avium*; 3 Ju 1965, many on *P. avium* attended by the ant, *Prenolepis imparis* (Say); 18 JI 1966, on *P. avium* (all RL coll).

Myzus hieracii (Kaltenbach)

see *Nasonovia ribisnigri* (Mosley)

Myzus ligustri (Mosley)

What proved to be the first record of this aphid as an injuries species in NEW YORK is the following: “Unspecified species (of aphids) numerous on ornamentals, especially on California privet.” [N. Y. Wkly Rpt June 7 in CEIR 15, (25):653, 18 Ju 1965]. In substantiation of this report Warren T. Johnson of Cornell sent me a vial containing many specimens collected 21 JI 1965 by him at WEST HAMPTON BEACH, LONG ISLAND, on the property of Mrs. John Graham on a California privet hedge which he stated was heavily infested. This hedge bordered the sidewalk on two sides for a distance of approximately 800 feet. Another infestation was found not far away at a “sand dune” apartment house right on the ocean front and was quite heavy; the foliage was yellow and curled and stunted. This hedge was laid out in a circular pattern with a total of about 60 linear feet. A further statement is: “Continues to be a problem on privet in SUFFOLK COUNTY; causing yellowing and curling of leaves.” [N.Y. Wkly Rpt Aug 9 in CEIR 15, (34):978, 20 Aug 1965].

Myzus lythri (Schrank)

Mahaleb Cherry Aphid

ROCHESTER 1 JI 1962, on *Lythrum salicaria*; 28 JI 1963, 23 Oct 1966, on *L. alatum* (Eastop det); 31 JI, 24 Aug 1965, alatae, apterae, on *L.*

salicaria (all HLG coll). NORTH LANSING 15 Ju-7 Aug 1964, 55 alatae, in traps in bean fields and ITHACA 12 Ju-16 Aug 1965, 7 alatae, in the traps (Zett coll—JOP det); 28 Aug 1964, many in all stages on *Lythrum* cult var (LLP coll). LUDLOWVILLE 6 Sept 1965, on *L. salicaria* (LLP coll—MacG det).

LI: RIVERHEAD 11 J1 1963, on *Decodon verticillatum* (RL coll).

Myzus persicae (Sulzer)

Green Peach Aphid

Following is a list of the 66 food plants of the Green Peach Aphid recorded in this paper. Of these 38 plants are entirely new aphid food plants for NEW YORK and 14 of their genera are new; 37 of the plants (marked with an asterisk) have not been previously recorded for *M. persicae* in NEW YORK. Only 9 of the plants have been collected on more than once; a numeral preceding such plants indicates the number of collections from each.

**Alliaria* (*alliaria*) *officinalis* (garlic-mustard), **Alternanthera* sp., (3) *Althaea rosea* (hollyhock), *Amaranthus retroflexus* (pigweed), **Beta vulgaris* (beet), *Brassica napobrassica* (rutabaga), *B. oleracea* (*acephala*) var. *viridis* (kale), *B. o. gonglyoides* (kohlrabi), *B. rapa* (turnip), (2) **Calendula officinalis* (pot marigold), *Callistephus chinensis* (China aster), (2) *Capsicum frutescens* (redpepper), **Centaurea americana* (starthistle), **C. vochinensis*, **Chrysanthemum morifolium* (florists' chrysanthemum), **Cleome spinosa* (spiderflower), **Cynoglossum officinale* (common houndstongue), **Datura aborea* (angel's trumpet), (3) **D. meteloides* (sacred datura), **D. stramonium* (jimsonweed or thornapple), *Dianthus caryophyllum* (carnation), *Dodecatheon* sp. (American cowslip), **Emilia saggitata* (tasselflower), *Erysimum repandum*, *Gerbera* sp., **Helichysum bracteatum* (strawflower), **Helleborus niger* (black hellebore), *Hibiscus esculentus* (okra), *Ipomoea purpurea* (morning glory), *Lactuca sativa* (garden lettuce), **L. s. capitata* (head lettuce), **Lavatera trimestris* (herb treemallow), **Linum grandiflorum* (flax), **Lunaria annua*, *Lychnis dioica*, **Malope trifida grandiflora*, **Malva moschata* (musk mallow), **M. neglecta* (common mallow), **M. robusta*, *Martynia louisiana* (devil's claws), **Myosotis scorpioides* (true forget-me-not), **Paulownia tomentosa* (princess tree), **Petunia violacea*, **P. vulgaris*, **Philadelphus coronarius* (mockorange or syringa), **Phytolacca americana* (pokeweed), *Polanisia graveolens* (stinking clammyweed), **Portulacca oleracea* (common purselane), (2) *Prunus avium* (sweet cherry), (2) *P. cerasus* (sour cherry), *P. domestica* (plum or prune), *P. maritima* (beach plum), (4) *P. persica* (peach), (9) *P. serotina* (black cherry), *P. sieboldii* (Siebold cherry), *P. yedoensis* (yoshima cherry), *Pyracantha coccinea*, **Senecio cruentus* (common cineraria), *Solanum dulcamara* (bitter nightshade), *S. melogena* (eggplant), (3) *S. tuberosum* (potato), *Spinacia oleracea* (spinach), *Stellaria media* (chickweed), **Tagetes tenuifolia* (striped marigold), **Teucrium candense* (American germander), **Tithonia rotundifolia* (scarlet

tithonia), **Trollius* sp. (globeflower), *Tulipa* sp., *Vinca* sp. (periwinkle), **Viola odorata*, *Zinnia elegans* (common zinnia).

Early records of the green peach aphid in NEW YORK—The earliest record I can find refers to its occurrence on LONG ISLAND and is as follows:

"The greenfly (*Rhopalosiphum dianthi*) has occurred in destructive numbers on turnips and in a few cases on cabbage and especially on kale." (F. A. Serrine in 14th Ann Rept N.Y. (GENEVA) Agr Exp Sta for 1895, p. 602, 1896).

SHERIDAN 23 JI 1905, on *Polanisia graveolens* and FREDONIA 17 JI 1905, on *Amaranthus retroflexus* (Hayhurst coll).

LI: MASPETH 7 Nov 1913, on cult radish, 26 Oct, 1 Nov 1914, on *Prunus serotina* and 15 Oct, on kohlrabi (Olsen coll). MINEOLA 24 Sept 1914, on cabbage (?MDL coll).

1917—IRONDEQUOIT 17 Jan, on garden lettuce in greenhouse (MDL coll). LI: MINEOLA 9 Oct, on turnip (MDL coll).

1918—LI: 13 Nov, on kale (C. Burkhardt coll) and FOREST HILLS (S. Danzinger coll) and 14 Nov (L. C. Griffith coll), on Savoy cabbage. S. OZONE PARK 28 Oct, on spinach (Jacob Boos coll). WOODHAVEN 31 Oct, on horseradish (H. Richter coll).

1919—LI: OYSTER BAY 5 Mar, on *Vinca* sp. and 4 Mar, on carnation and VALLEY STREAM 5 Mar, on lettuce—all in greenhouse and MDL coll.

The USDA's Insect Pest Survey files contain many reports during the 1920's and 1930's of the occurrence and economic status of the green peach aphid on various fruits and vegetables in the more important producing counties of WESTERN N. Y., the HUDSON RIVER VALLEY and on LONG ISLAND. These were based on observations made by the County Spray Service Specialists of the N.Y. State College of Agriculture.

Detailed records of recent collections of the green peach aphid are as follows:

OSWEGO Co Ju-Sept 1963, 985 alatae, in MTs and Ju-Sept 1964, 7249 alatae, in MTs (Gonz coll—JOP det). ROCHESTER 21 JI, on *Datura stramonium* (MDL det), on *Trollius* sp., cult (LMR det), 9 Aug, on *Zinnia* sp., 5 Oct 1962, on *Paulownia tomentosa*, and 18 Oct 1963, on *Lychnis dioica* (Eastop det); also 14 Sept on *Althea rosea* and 4 JI 1963, 3 aptera, on *Erysimum repandum*—(all HLG coll) STAMFORD 5 Oct immatures, on *Malva moschata* and *M. neglecta* (MacG det) and 7 Oct 1963, a few apterae, on *Calendula officinalis* (LWA coll). LUDLOWVILLE 31 Aug 1963, apterae, on *Myosotis scorpioides* and 16 Ju 1964, alatae, apterae, on *Chrysanthemum morifolium* (LLP coll). North Lausling 15 Ju-7 Aug 1964, 42 alatae and 28 Ju-16 Aug 1965, 30 alatae, in traps in bean fields. CANASTOTA 1 JI-19 Aug 1965, 31 alatae, in traps in bean fields and ITHACA 28 Ju-16 Aug 1965, 168 alatae, in traps in bean fields (all Zett coll—JOP det). ITHACA 30 May 1928, on *Tulipa* sp. (Griswold coll); 4 Feb 1966, on leaves of a pot of *Crocus* sp. being forced, indoors, and on

14 Mar it was reported that all parts of the plant above ground had been killed by the aphids (W. T. Johnson coll)—the only other collection I know of on *Crocus* is by Griswold on stored bulbs 27 Oct 1927 at ITHACA; 7 Ju 1963 on CORNELL CAMPUS, on *Dodecatheon* sp. (LLP coll); 20 Nov 1964 apterae noticed on a blossom of *Helleborus niger* which had been brought indoors several days before (LLP coll); on CORNELL CAMPUS 2 Nov 1963, 2 apterae, on *Alternanthera* sp., 18 Aug 1966 (LMR det); on *Datura metaloides* and 22 Nov 1966 on *Helleborus niger* (LLP coll); 10 Ju 1964, apterae, on pansies in a garden causing flower distortion (W. T. Johnson coll)—first N.Y. collection of an aphid on pansies.

“Numerous on peppers and other crops in Niagara County.” [N. Y. Wkly Rpt Aug 30 in CEIR 15(37):1070, Sept 10 1965].

SI: CASTLETON CORNERS 6 Nov 1961, 1 alata, in MT; summer 1964, 42 alatae, in MT (EAR coll).

LI: FARMINGDALE 18–25 JI (4), 28 JI–1 Aug (50), 1–8 Aug (30), 8–15 Aug (20), 15–22 Aug (6), 22–29 Aug (2), 29 Aug–8 Sept (4), 8–21 Sept (17), 21–28 Sept (12), 28 Sept–4 Oct (2), 4–13 Oct (6), 13–20 Oct (1)—all 1960, in MT (GVJ coll—LMR det); 22–31 May (1), 9–14 Ju (2), 20–26 Ju (1), 20–27 Sept (5), 28 Oct–3 Nov (1 male)—all 1961, in MT (GVJ coll—LMR det). 25–29 JI (2), 6–9 Sept 1963 (10), in MT (GVJ coll—LMR det); numbers in parens indicate number of alatae caught; 28 Mar 1960, on *Senecio cruentus* and 1 Nov 1962, on *Chrysanthemum* sp. (GVJ coll—LMR det). SMITHTOWN BRANCH 10 Feb 1949, on *Bougainvillea* sp. (? in greenhouse), WANTAUGH 8 Apr 1949, on *Gerbera* sp., FARMINGDALE 2 May 1955, on okra, BELLMORE 21 Mar 1958, on *Stellaria media* and FARMINGDALE 1 Nov 1962, on *Chrysanthemum* sp. (GVJ coll—LMR det). ORIENT 27 Oct 1963, on *Helichrysum bracteatum* (MacG det); 10 Oct 1963, on *Centaurea vochinensis* (LMR det); 15 JI, on *Lunaria annua*, 16 Nov, on *Lactuca sativa*, 30 Oct, on *Callistephus chinensis*; 8 JI apterae, on *Pyracantha coccinea*; 9 alatae in Oct and 4 alatae in Nov, in MT—all 1966 (RL coll).

“Main problem on earliest planted fall crucifers in SUFFOLK COUNTY.” [N. Y. Wkly Rpt Aug 3 in CEIR 14 (33):943, 14 Aug 1964].

FAST MARION 26 Oct 1963, alatae, apterae, on *Malus robusta*, a single tree, quite uncommon here. BAY VIEW 21 Oct 1962, on *Prunus serotina*. GREENPORT 24 Oct 1963, on *P. persica*; 3 Aug 1963, on *Solanum dulcamara*. SOUTHDOLD 9 JI 1962 alatae (? accidental), on *Martynia louisiana*; 19 JI 1962, on *Phytolacca americana* and *Datura metaloides*. ORIENT 30 JI 1959, on parsley; 1962—16 Nov, on *Petunia violacea* and *Althea rosea*; 16 Oct very small immatures, on *Prunus serotina*; 20 Oct, on *P. cerasus*; 19 Oct, on *P. persica*; 20 Oct, on *P. avium*; 7 JI on *Cleome spinosa*; 17 JI on *Capsicum frutescens*; 12 JI on *Phaseolus vulgaris*; 19 JI on *Zinnia elegans*; 1963—18 JI, on *Amaranthus retroflexus*, on *Solanum meloena*,

on *Phaseolus vulgaris*, on *Portulacca oleracea* (only alatae but this is a known food plant elsewhere), on potato, on *Calendula officinalis*, on *Beta vulgaris*, and on *Ipomoea purpurea*; 19 J1, on *Cynoglossum officinalis*, on *Datura arborea*, on *Petunia vulgaris*; 16 Sept apterae, alatae, on *Martynia louisiana*; 27 Oct, on *Alliaria (alliaria) officinalis*; 12 Oct, on *Tithonia rotundifolia* 16, 22, 24 Oct, on *Prunus serotina*; 7, 14, 22, on *P. persica*; 11 Oct, on *P. avium*; 9 Oct on, *P. yedoensis*; 6 Nov on *P. maritima*; 22 Oct on radish; 17 Oct, on *Teuchrium canadense*; 27 Oct, on *Helichrysum bracteatum*; 19 Oct, on *Prunus cerasus*; 14 Oct, 20 or 30, apterae, on *Tagetes tenuifolia*; 11 Oct, apterae, and 23 Nov, a number of alatae, on *Melope trifida grandiflora*; 16 Oct, on *Philadelphus coronarius*; 25 Nov, on *Lavatera trimestris*; 1965—26 J1, on *Centaurea americana*; 26 J1 several alatae, apterae, on *Emilia saggitaria* (formerly *Cacalia coccinea*); 26 J1 on *Datura metaloides*; 17 J1 on *Hibiscus esculentus*; 21 J1 on *Prunus serotina*; 1 Feb 1966 on 2-inch sprouts of potatoes stored over winter in cellar, 5 apterae and 4 alatae collected; Oct 1966, 9 alatae, in MT;—(all RL coll).

Myzus physocarpi Pepper

see *Hyalomyzus humboldti* Essig

*? **Myzus plantagineus** Passerini

OSWEGO Co 21 Aug 1964, alatae, in MT (Gonz coll—JOP det with query).

Nasonovia (Hyperomyzus) lactucae (Linnaeus) Sowthistle Aphid

Common American synonyms are *Amphorophora sonchi* (Oestlund) and *A. cosmopolitana* Mason.

OSWEGO Co 21 Aug 1964, alata, in MT (Gonz coll—JOP det). TONAWANDA INDIAN RESERVATION, GENESSEE Co., 5 Aug 1960, "stray" alatae, on *Desmodium canadense* (LLP coll—CFS det). LOCKPORT 6 Aug 1961, "stray" alatae, on *Mimulus ringens* (LLP coll—CFS det). ROCHESTER 27 Aug 1963, many on *Sonchus asper* (HLG coll). STAMFORD 1 Sept 1963, many on *Lactuca canadensis* (LWA coll). NORTH LANSING 15 Ju—7 Aug 1964, 125 alatae; 28 Ju—16 Aug 1965, 114 alatae, in sticky traps (Zett coll—JOP det). ITHACA 28 Ju—16 Aug 1965, 151 alatae and CANASTOTA 1 J1—19 Aug 1965, 38 alatae, in sticky traps in bean fields (Zett coll—JOP det); 3 Aug 1963, on *Lactuca canadensis* (LWA coll). LUDLOWVILLE 4 Sept 1965, on *Lactuca serriola* var. *integrata* (LLP coll—MDL det).

LI: ORIENT 18 J1 1963, several on *Sonchus arvensis* (RL coll).

Nasonovia ribisnigri (Moseley)

Formerly *Myzus hieracii* (Kaltenbach)

ROCHESTER 26 Oct 1963, on red currant (HLG coll—Eastop det).

NORTH LANSING 15 Ju-7 Aug 1964, about 173 alatae, 28 Ju-16 Aug 1965, 25 alatae in sticky traps in bean fields (Zett coll—JOP det). ITHACA 28 Ju-16 Aug 1965, 65 alatae and CANASTOTA 1 Jl-19 Aug 1965, 12 alatae, in sticky traps in bean fields (Zett coll—JOP det).

LI: FARMINGDALE 22-31 May (1); 9-14 (2), 14-20 (1), 20-26 Ju (1); 20-27 Sept (5) (1 male); and 28 Oct-3 Nov 1961 in MT (GVJ coll—LMR det) numbers in parens indicate number of alatae caught). GREENPORT 24 Ju and 2 Jl 1962, on *Cicorium intybus*; 25 Ju 1961, on *Hieracium pratense* and 30 Ju 1966, on *H. pilosella*, many. ORIENT 1 Jl 1961, 18 Ju 1962, 21 Ju 1963, 3 Jl 1965, on *Cicorium intybus*; 25 Oct 1965, on *Hieracium rubrum*. 23 Ju 1964, 19 Ju 1966, many on *H. aurantiacum* and 14 Jl 1966, many on *H. pratense* (all RJ. coll).

Nearctaphis bakeri (Cowen)

Clover Aphid

Formerly in *Anuraphis*

OSWEGO Co 10 Jl, 4 Sept 1964, alatae in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju-7 Aug 1964, 8 alatae, 9 Ju-16 Aug 1965, 22 alatae; ITHACA 12 Ju-16 Aug, 19 alatae and CANASTOTA 1 Jl-16 Aug 1965, 4 alatae, in sticky traps (Zett coll—JOP det).

LI: FARMINGDALE 6-20 Oct 1961, 1 alata, in MT (GVJ coll—LMR det). ORIENT 9 Ju 1962, many on *Trifolium pratense* (MacG det); 30 Ju 1966, on *T. pratense* (RL coll). GREENPORT 30 Ju 1966, on *T. hybridum* (RL coll).

Neoceruraphis viburnicola (Gillette)

Snowball Aphid

Formerly in *Anuraphis*

NORTH LANSING 1 Ju 1963, many in curled leaves of *Viburnum recognitum* (LLP coll).

LI: GREENPORT 30 Ju 1962, on *V. acerifolium* and 1 Jl 1965 on *V. dentatum* (RL coll). ORIENT 20 Oct, 6 Nov 1963, many alatae, apterae, on *V. opulus* and *V. dentatum* and 17 May, 1 Jl 1965, on *V. opulus* (RL coll).

Neoprociphilus aceris Monell

C. F. Smith and John Graham [Ann. Ent. Soc. Am. 60(1):67-72, 1966] have shown that *N. attenuatus* (Osborne & Serrine) is a synonym of this species.

LI: GREENPORT 26 Aug, 11 Sept 1964, many on *Smilax herbacea* (RL coll). ORIENT 3 Sept 1964, 31 Jl 1965, many ("flocculent") on *S. herbacea* and 31 Jl 1965 "under leaves, none on stems, very woolly" (RL coll).

***Neosymydobius** n. sp.

ITHACA 26 Jl 1937, on *Quercus montana* 2 slides in CU Coll and maybe 2 others sent to Granovsky (Griswold coll—Granovsky det).

***Neosymydobius americanus** (Baker)

RENSSELAERVILLE 28 Sept, on *Betula papyrifera* (LLP coll—Ole Heie det).

Neotoxoptera violae (Pergande)

Violet Aphid

Probable synonyms are *Micromyzus formosanus* Takahashi and *M. oliveri* Essig.

In the NYI. under *M. formosanus*, I referred to 5 slides (probably Griswold coll) in the C U Coll 12 Feb 1926, on onion in Plant Path greenhouse, CORNELL UNIVERSITY. I stated that since these did not seem to fit the description of *formosanus* I sent 2 slides of 1 alata each (these were the only alatae) and 1 slide with 4 apterae to Prof. Essig for his opinion. This was done in about 1960. He wrote these were never received by him. I further stated that the specific identity of this aphid therefore remains uncertain.

Thinking that these slides must be in the collection of the late Prof. Essig's collection, I wrote on 1 Feb 1964 to Dr. Hille Ris Lambers (at that time a visiting Professor in the Dept. Entomology, Univ. Calif.) asking if he could find these slides and give me his opinion. On Feb 7 he replied as follows:

"After much searching I located in the Essig Collection 3 slides with the data you mentioned in your kind letter of 1 Feb. The insects are what Essig described as *oliveri* Essig notwithstanding the question mark which Essig added to his identification."

Ovatus crataegarius (Walker)

Mint Aphid

LUDLOWVILLE 20 Aug 1964, a few apterae, on *Mentha canadensis* (LLP coll). POUGHKEEPSIE J1 1963 about 2 dozen apterae, all sizes including several alatoid nymphs; J1 1964, 15 apterae; 12 Sept 1964; 12 J1 1965 a few apterae; 30 J1 a few apterae and 24 Nov 1966 numerous apterae—all on spearmint (all GOS coll).

LI: EAST MARION 15 Oct 1963, a few apterae, on *M. arvensis*. ORIENT 6 J1 1961, 7 Aug 1962, 11 Oct 1963, and 27 Oct 1965, a few apterae, alatae, on *M. rotundifolia*; 14 Sept 1962, 28 Sept 1963 and 28 Oct 1965, a few apterae, on *M. longifolia*; 4 Oct 1962 many alatae, apterae, on *M. piperata*; 1 Nov 1961 a few apterae, on *M. citrata*; 28 Sept 1963 and 8 Nov 1965, scarce on *M. spicata*. All LI colls by RL.

***Paducia antennata** (Patch)

NORTH LANSING 9 Ju-16 Aug 1965, 1 alata, in sticky trap (Zett coll—JOP det).

***Papulaphis sleesmani** (Pepper)Formerly in *Macrosiphum*

LUDLOWVILLE 4 J1 1965, on *Adiantum pedatum* (LLP coll—MacG det).

Pemphigini

LI: BAY VIEW 9 Ju 1963, a number of apterae, on *Lysimachia quadri-fovia* (RL coll—MacG det).

Pemphigus bursarius (Linnaeus)

OSWEGO Co 3 Jl 1964, alatae, in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju–7 Aug 1964, several alatae, in sticky traps (Zett coll—JOP det).

Pemphigus populicaulis Fitch

Poplar Leafpetiole Gall Aphid

OSWEGO Co 10 Jl 1964, alata in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju–7 Aug 1964, several alatae, in sticky traps (Zett coll—JOP det). ITHACA 24 Ju 1965, on *Populus deltoides* (Zett coll—JOP det).

Pemphigus populitransversus Riley

Poplar Petiole Gall Aphid

CROWN POINT 19 Jl 1963, in galls on cottonwood with 1 presumably predaceous anthocorid bug, *Anthocoris musculus* (Say) (LLP coll—J. L. Herring det). OSWEGO Co 3, 10 Jl, 28 Aug 1964, alatae, in MT (Gonz coll—JOP det). “Frequently reported from widely scattered locations over State; caused leaf drop. Aphids had not emerged as of July 15.” [N. Y. Wkly Rpt in CEIR 14(31):882, 31 Jl 1964].

SI: CASTLETON CORNERS 1–7 Nov 1960, 1 alata, in MT (EAR coll—JOP det).

?Pemphigus populivenae Fitch

Sugar-beet Root Aphid

Dr. George G. Gyrisco, Dept Entomology, Cornell University wrote me on 6 Dec 1966 the following: “In 1965 I saw a sugar-beet root aphid colonizing in large numbers in one field near CANOGA. This field was surrounded with poplars, an alternate host. In this particular field, which was weedy and dry, the aphid was actually causing what we felt was economic loss.” Unfortunately no specimens were collected so that the identity of the aphid involved is, of course, uncertain.

Pentatrachopus fragaefoliae (Cockerell) and **P. minor** (Forbes)

see *Chaetosiphon*

Pergandeidia trirhoda (Walker)

see *Longicaudus*

Periphyllus americanus. Shinji

ITHACA 22 May 1965, on *Acer saccharum* (Zett coll—JOP det).

LI: ORIENT 4 Ju 1966 on *Acer pseudoplatanus* (RL coll—MDL det with query).

Periphyllus lyropictus (Kessler)

Norway Maple Aphid

GENEVA 20 Sept 1946 on *Acer platanoides* (P. J. Chapman coll—Essig det; 1 slide in USNM). ROCHESTER 31 Jl 1965 “so abundant on a large sugar maple that tree was soaking wet from dripping honeydew and hundreds of leaves were falling off while still green. None were on nearby Norway maples.” (HLG coll).

LI: PATCHOGUE 18 JI 1948, on *Acer* sp. (Gaul & Smith coll—USDA's Special Port Survey; 1 slide in USNM). LAUREL 30 Ju 1961, a few on *A. platanoides* (RL coll). ORIENT 21 Ju 1963, on young shoots of *A. pseudoplatanus* and 27 Ju 1964 and 23 Ju 1966, on *A. platanoides* (RL coll).

"Considerable leaf-drop on heavily infested Norway maple. (N.Y. Wkly Rpt Aug 27 in CEIR 12(36):1002, 1962).

Periphyllus negundinis (Thomas) Boxelder Aphid
ITHACA 17 Ju 1963, scarce on a large boxelder (MDL coll).

***Periphyllus testudinaceus** (Ferne)

LI: ORIENT 29 May 1962 "black aphids on petioles of *Acer pseudo-platanus*" (RL coll—MacG det).

Phyllaphis sp.

LI: ORIENT 2 Ju 1962, apterae, on copper beech and GREENPORT 17 Ju 1962, 12 Ju 1964, apterae, on *Fagus grandifolia* in curled edges of leaves (RL coll).

Phyllaphis fagi (Linnaeus)

ITHACA 6 Ju 1965, on *Fagus sylvatica atropunicea* (Zett coll—JOP det).

SI: GRASMERE 29 Aug 1961, on *F. americana* (EAR coll).

LI: GREENPORT 23 Ju 1947, common on *F. grandifolia* (RL coll). ORIENT 1 Nov 1958, males present, on *F. sylvatica*; 28 Oct 1961, 18 May 1965 and 18 Ju 1966, on copper beech (RL coll).

***Placoaphis siphunculata** Richards

MIDDLEHOPE (near POUGHKEEPSIE) 14 JI 1959, on *Rubus allegheniensis* (R. H. Converse coll—LMR det). ITHACA 12 Ju 1966, on wild raspberry, *Rubus* sp. (NLH Krauss coll—LMR det).

LI: BAY VIEW 30 Sept 1962, on *R. argutus* (RL coll—LMR det: 2 slides in USNM with 2 apterae each) and 21 Oct 1962, on *R. argutus*, 1 aptera (RL coll—MDL det with query). GREENPORT 20 Ju 1963, on *R. allegheniensis* "on and in top of leaves" (RL coll—LMR det).

***Plectrichophorus wasatchii** (Knowlton)

Formerly placed in *Capitophorus*

LI: FARMINGDALE 22-31 May, 1 alata and 1-9 JI 1961, 1 alata, in MT (GVJ coll—LMR det).

Described from UTAH it also occurs in COLORADO. Palmer states that in these two States it is rather common but difficult to detect. Pepper lists it from PENNSYLVANIA. Dr. Jaroslav Holman of Czechoslovakia wrote me on Feb 17, 1966, that he had collected this aphid in Cuba in 1965.

Prociphillus corrugatans Serrine

LI: SOUTHOLD, 1 Ju 1962, on *Amelanchier canadensis* (RL coll).

?Prociphilus erigeronensis (Thomas) White Aster Root Aphid

SI: CASTLETON CORNERS 9 Oct 1961, apterae only, on roots of *Taraxacum officinale* (EAR coll—MDI det with query).

?Prociphilus imbricator Fitch Beech Blight Aphid

"Produces young and buildup has begun (presumably on beech)." [N. Y. Wkly Rpt in CEIR 14(23):584, 5 Ju 1964]; determination is questionable (MDL).

Prociphilus tessellatus (Fitch) Woolly Alder Aphid

McLEAN RESERVATION, TOMPKINS Co., 6 Ju 1963, on *Alnus rugosa* (LLP coll).

"Widely and frequently reported this summer from red and silver maples. Infestations heavy and considerable damage resulted. Normally not a serious threat to trees and expected to drop off next year. [N.Y. Wkly Rpt Aug 17" in CEIR 12(63):1002, 1962].

"Light in forested areas of ADIRONDACK MOUNTAINS." no plant given. [N.Y. Wkly Rpt June 15 in CEIR 15(26):692, 25 June 1965].

***Protopterocallis canadensis** Richards

ITHACA 12 Ju–16 Aug 1965, 2 alatae, in sticky traps (Zett coll—Bissell det).

LI: GREENPORT 5 Jl 1965, 2 aptera, on *Carya ovata* (RL coll—Bissell det).

Pseudasiphonaphis anogis (Hottes & Frison)

see *Pseudasiphonaphis corni* (Tissot)

***Pseudasiphonaphis corni** (Tissot)

Synonymy by A. G. Robinson in Can Ent 99(6):569, 1967.

NORTH LANSING 1964, 61 alatae and 9 Ju–16 Aug 1965, 8 alatae (Zett coll—JOP det). ITHACA 12 Ju–16 Aug 1964, 51 alatae, in sticky traps (Zett coll—JOP det). LUDLOWVILLE 19 Sept 1964, on *Scutellaria latiflora* (LLP coll—MacG det); 4, 13 Jl 1963, on *Pilea pumila* (LLP coll—MacG det); 12 Jl a few and 6 Sept 1965, a number of alatae, apterae, on *P. pumila* (LLP coll—MDL det).

LI: GREENPORT 8 Sept 1964, on *Chelone glabra* (RL coll—LMR det); 25 Aug 1965 "woolly", on *Scutellaria latiflora* (RL coll—MDL det).

Pterocomma smithiae (Monell) Willow Grove or Black Willow Aphid

ROCHESTER 29 Sept 1963, 26 Sept 1965 and 9 Oct 1966 (a very few)

on *Salix matsudana* var. *tortuosa* and 26 Oct 1963, on *Salix* sp. (HLG coll—Eastop det). MICHIGAN HOLLOW, DANBY, 16 Ju 1965, a number in all stages on twigs on *Salix* sp. (LLP coll).

LI: SEAFORD 15 Sept 1957, on *Salix alba* var. *tristis* (GVJ coll—LMR det).

***Rhopalosiphum loniceræ** (Siebold)

OSWEGO Co 26 Ju–3 Jl, 1 alata; 19–26 Ju, 1 alata; 26 Ju–3 Jl, 2 alatae, 3–10 Jl, 1 alata; 7–14 Aug, 2 alatae—all 1964 (Gonz coll—JOP det). ITHACA 12 Ju–19 Aug 1964, 1 alata, in sticky traps (Zett coll—JOP det).

Rhopalosiphum staphyleae Koch

OSWEGO Co., FARM P, 19–26 Ju 1 alata and FARM J 3–10 Jl 1964, 1 alata, in MT (Gonz coll—JOP det).

***Rhopalosiphum staphyleae** subsp. *tulipellus* (Theobald)

OSWEGO Co 3, 10 Jl 1964, alatae, in MT (Gonz coll—JOP det).

Rhopalosiphum sp.

LI: GREENPORT, 1 Jl 1962, on *Acorus calamus* (RL coll—LMR det).

Rhopalosiphum berberidis (Kaltenbach)

see *Liosomaphis barberidis* (Kaltenbach)

Rhopalosiphum conii (Davidson)

see *Hyadaphis foeniculi* (Passerini)

Rhopalosiphum fitchii (Sanderson)

Apple Grain Aphid

OSWEGO Co 4 Sept 1964, alata, in MT (Gonz coll JOP det). "Abundant on ornamental crabapple, hawthorn and *Crataegus*." (This refers to NY and is in CEIR 14(23):584, 5 Ju, 1964).

LI: FARMINGDALE 18–25 Jl 1960, 3 alatae (GVJ coll—LMR det as either *fitchii* or *padi*).

Rhopalosiphum fitchii complex

NORTH LANSING 15 Ju–7 Aug 1964, about 461 alatae, in sticky traps in bean fields (Zett coll—JOP det).

***?Rhopalosiphum insertum** (Walker)

LI: GREENPORT 25 Ju 1963, scarce on *Acorus calamus* (RL coll—MacG det with query).

Rhopalosiphum maidis (Fitch)

Corn Leaf Aphid

OSWEGO Co 28 Aug 1964, alatae, in MT (Gonz coll—JOP det).

ROCHESTER 30 Sept 1962, in leaf sheaths of *Echinochloa crusgalli* (HLG coll). STANLEY 23 Oct 1962, on sweet corn (HLG coll). ITHACA 20 JI 1962, on corn (Nault coll—CFS det). NORTH LANSING 15 Ju–7 Aug 1964, 508 alatae; 28 Ju–16 Aug 1965, 929 alatae in sticky traps in bean fields (Zett coll—JOP det). ITHACA 28 Ju–16 Aug 1965, 1806 alatae and CANASTOTA 1 JI–19 Aug, 1314 alatae, in sticky traps in bean fields (Zett coll—JOP det). SLATERVILLE 7 Aug 1964, on corn (LWA coll).

LI: ORIENT 14 JI 1966, on *Setaria italica* (RI. coll); 29 JI 1961, 17 JI 1962, 10 JI; 1963, and 31 JI 1965, many on sweet corn; 15 Oct 1964, 10 JI 1965, on *Sorghum vulgare*; 17 JI 1962, 25 JI 1966, on *Panicum capillare*; 17 JI 1963, on *P. dichotomioflorum*; 18 Oct 1963, on *Echinochloa crusgalli*; 10 Oct 1966, on *Holcus sorghum* var. *durra*; 19 Sept 1966, 1 aptera, on *Coix lachrymajobi*; 15 JI 1966, on *Echinochloa crusgalli*, which was "coming up as weed in a big bean field and many of these plants were loaded with the aphids and it was a slimy mess." FARMINGDALE 18–25 JI (1), 28 JI–1 Aug (8), 1–8 (4), 8–15 (20), 15–22 (2), 22–29 Aug (42), 29 Aug–8 Sept (3, 8–21 (8), 21–28 Sept (7), 28 Sept–4 Oct (70), 14–1 (35), 13–20 Oct (13) and 20 Oct–2 Nov (1), all 1960; 24 JI–1 Aug (29) and 27 Sept–6 Oct (1) 1961; 5–9 Aug (6), and 6–9 Sept (1) 1963—all in MT (JVG coll—LMR det). Number of alatae given in parens. LI colls except FARMINGDALE are by RL.

SI: CASTLETON CORNERS 23 Nov 1963, on tall bearded Iris and many alatae, apterae, on *Setaria faberii* (FAR coll).

Rhopalosiphum nymphaeae (Linnaeus) Waterlily Aphid
ROCHESTER 1 JI 1962, on *Sagittaria latifolia*, 30 Sept 1962, general distribution of all stages, on *S. latifolia*, *Pontederia chordata*, *Calla palustris*, *Nymphaea odorata*, and waterlily cult; also, all stages but only on leaves touching water, on *Lythrum alatum* and *Spiranthes grayi*; 5 Sept 1965, 15 Oct 1966, many apterae, on *Nymphaea odorata*—all HLG coll. MUD POND, OXFORD TWP., CHENANGO Co., 2 Sept 1963, a few on *Pontederia chordata* (LLP coll). TROY 29 Aug 1931, on *Lemna* sp. (Minnie Scotland coll). LUDLOWVILLE 20 Aug 1964, abundant on *Alisma plantago-aquatica* (LLP coll—MacG det).

LI: GREENPORT 21 Ju 1963, on *Leersia (Homalocenchrus) virginica* (RL coll).

Gibson writes of the 30 Sept 1962 collection: "A storm on 27 Sept blew into my small pond many leaves broken off from *Betula nigra*, *Trillium erectum*, morraine locust, and cultivated blueberry. All but the latter leaves were covered with waterlily aphids in every stage. They appeared to be feeding and did not wander. They were present for at least 2 days after the 30th."

Rhopalosiphum padi (Linnaeus) Oat Bird-cherry Aphid
NORTH LANSING 9 Ju–16 Aug 1965, 127 alatae, in sticky traps (Zett coll—JOP det).

Rhopalosiphum poae Gillette Gillette's Bluegrass Aphid
ITHACA 12 Ju-16 Aug 1965, 1 alata, in sticky trap (Zett coll—JOP det).

Rhopalosiphum rhois (Monell)
see *Sitomyzus rhois* (Monell)

Rhopalosiphum rufiabdominalis (Sasaki) Rice Root Aphid
OSWEGO Co 28 Aug 1964, alata, in MT (Gonz coll—JOP det).

Rhopalosiphum rufomaculatum (Wilson)
see *Coloradoa rufomaculatum* (Wilson)

Rhopalosiphum serotinae (Oestlund)
see *Cachryphora serotina* (Oestlund)

***Rhopalosiphum viridis** Richards

NORTH LANSING 9 Ju-16 Aug 1965, alatae (number not given), in sticky traps (Zett coll—JOP det). Known elsewhere only from the type locality in ONTARIO, CANADA, from where it was described in 1960.

Schizaphis graminum (Rondani) Greenbug
Formerly in *Toxoptera*

NORTH LANSING 15 Ju-7 Aug 1964, 2 alatae and 9 Ju-16 Aug 1965, 10 alatae, in sticky traps (Zett coll—JOP det). ITHACA 1-3 Oct 1959, 3 alatae (W. F. Rochow coll—JOP det).

Schizolachnus piniradiatae (Davidson) Woolly Pine Needle Aphid
ITHACA "hatching on red pines" [N.Y. Wkly Rpt May 4 in CEIR 14(26):476, May 15, 1965]. "Found on Scotch pine Christmas trees at MARTVILLE, CAYUGA Co., 20 Apr 1965." [N.Y. Wkly Rpt in CEIR 15(19):451, May 7, 1965].

In the NYL is the following record under *Cinara pini* (L.):

LI: GLEN HEAD Ju 1936, on needles of red pine, *Pinus resinosa* (K.E. Maxwell coll—ANT det). Dr. Tissot has recently reexamined the slides on which this record is based and notes to me on 22 Ju 1967 that his original determination was in error and the specimens represent *S. piniradiatae* (Davidson.).

***Semiaphis dauci** (Passerini)

Formerly *Anuraphis carotae* (Koch)

SI: 14 Sept 1943, on crown of carrot roots (M. J. Ramsey coll—Mason det; Special Port Survey by USDA). Not previously recorded from North America. (The aphid is given in the Food Plant List of the NYL under *Daucus carotae* (garden carrot) but not mentioned in the List of Aphids.)

Shenahweum minutum (Davis)

ITHACA 15 JI 1962, on *Acer saccharum* (Zett coll—JOP det).

Sipha agropyrella Hille Ris Lambers

OSWEGO Co 24–30 Ju, 2 alatae, 8–14 JI, 2 alatae, 14–21 JI, 1 alata, 5–12 Aug, 5 alatae and 19–26 Aug, 5 alatae, 1963; 16–19 Ju, 1 alata, 19–26 Ju, 14 alatae, 26 Ju–3 JI, 16 alatae, 3–10 JI, 4 alatae, 17–14 Aug, 1 alata, 21–25 Aug, 1 alata, 28 Aug–4 Sept and 2 alatae, 1964—all in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju–7 Aug 1964, 115 alatae, in sticky traps and 28 Ju–16 Aug, 110 alatae 1965, in sticky traps (Zett coll—JOP det). ITHACA 28 Ju–16 Aug, 146 alatae and 1 JI–19 Aug, 27 alatae, in sticky traps (Zett coll—JOP det); 24 Ju 1965, on *Agropyron repens* (Zett coll—JOP det).

LI: FARMINGDALE 9–14 Ju 1961, in MT (GVJ coll—LMR det).

Sitomyzus rhois (Monell)

Monell's Sumac Aphid

SLATERVILLE, WILDLIFE PRESERVE, 7 Aug 1965, on *Rhus typhina* (LLP coll—MacG det). ROCHESTER 27 Sept 1966, on Japanese sumac (HLG coll).

LI: GREENPORT 23 JI 1961, on *Rhus glabra* (RL coll—JOP det), 30 Ju, 7 JI 1962, 23 Ju 1963; SOUTHOLD 25 Ju, 10 JI 1963; ORIENT 26 Ju, 5 JI 1962; 17 Ju 1963—all RL coll.

Smynthuroides betae (Westwood)

Has also been identified as *Trifidaphis phaseoli* (Passerini) and *T. radiciala* Essig.

MONROE Co 20 Sept 1965 no plant given (A. A. Muka coll—JOP det with query). CANASTOTA 3 Sept 1965 no plant given, 5 apterae (Muka coll—MDL det with query). BELLONA, YATES Co., 19 Sept 1966, on bean roots, 1 acre in an 8 acre field badly damaged—N.Y. (Geneva) Agr Exp Sta coll, transmitted thru LLP (MDL det).

Dr. Hille Ris Lambers (in litt 11 Ju 1963) comments that the records in the NYL tentatively determined as *Geoica lucifuga* must all refer to this species.

Stegophylla sp.

LI: GREENPORT 22 Sept 1964 woolly aphids, on *Quercus bicolor* (RL coll).

Tamalia coweni (Cockerell)

Manzanita Leaf-gall Aphid

LI: RIVERHEAD 15 JI 1963, on *Arctostaphylos uva-ursi* (RL coll).

Thecabius sp.

SI: CLOVE LAKES PARK 30 Aug 1961, several apterae, in curled tips of leaves on *Lysimachia quadrifolia* (FAR coll).

Thecabius populiconduplifolius (Cowen) Folded-leaf Poplar Aphid

LUDLOWVILLE 17 J1 1966, in tight leaf rolls of *Populus deltoides* and attended by the ant *Formica fusca* L. (D. R. Smith det), (LLP coll—MDL det).

Therioaphis riehmi (Boerner) Sweetclover Aphid

OSWEGO Co 3 J1, 24 Aug 1964, alatae, in MT (Gonz coll—JOP det). NORTH LANSING 15 Ju-7 Aug 1964, 13 alatae; 28 Ju-16 Aug 1965, 4 alatae, in sticky traps (Zett coll—JOP det). ITHACA 28 Ju-16 Aug 1965, 32 alatae and CANASTOTA 1 J1-19 Aug 1965, 26 alatae, in sticky traps (Zett coll—JOP det). ITHACA (CALDWELL FIELD) 7 Sept 1962, on *Melilotus alba* (L. R. Nault coll—CFS det).

LI: FARMINGDALE 26-30 Aug 1963, 1 alata, in MT (GVJ coll—LMR det).

Therioaphis trifolii (Monell) Yellow Clover Aphid

NORTH LANSING 15 Ju-7 Aug 1964, about 523 alatae, in sticky traps; 28 Ju-16 Aug 1965, 453 alatae, in sticky traps (Zett coll—JOP det). ITHACA 28 Ju-16 Aug 1965, 443 alatae and CANASTOTA 1 J1-19 Aug 1965, 157 alatae, in sticky traps (Zett coll—JOP det).

***Toxoptera aurantii** (Fonscolombe) Black Citrus Aphid

LI: HUNTINGTON STATION 19 J1 1964, on orange, *Citrus sinensis* (W. T. Johnson coll—LMR det).

Toxoptera graminum (Rondani)

see *Schizaphis graminum* (Rondani)

***Trama rara** (Mordwilko) Long-footed Dandelion Aphid

LUDLOWVILLE 3 Aug 1963, on roots of *Taraxacum officinalis* (LLP coll—MacG det). LOCKPORT 14 Aug 1965 several apterae, on roots of *T. officinale* (Henry Pechuman coll—MDL det). ITHACA 12 Ju-16 Aug 1965, 2 alatae, in sticky traps (Zett coll—JOP det).

Tuberculatus ulmifolli (Monell)

see *Myzocallis ulmifolii* (Monell)

Tuberolachnus salignus (Gmelin)

see *Lachnus salignus* (Gmelin)

FOOD PLANT LIST

Plants marked with an asterisk are in addition to those in the New York List; a double asterisk indicates the genus is new.

Abies concolor <i>Mindarus abietinus</i>	White Fir	Acorus calamus <i>Aphis craccivora</i> <i>Rhopalosiphum</i> sp.	Sweetflag
**Abrus precatorius <i>?Acyrtosiphon solani</i> <i>Aphis</i> sp.	Rosary Pea	*Adiantum pedatum <i>Macrosiphum ptericolens</i> <i>Papulaphis sleesmani</i>	Maidenhair Fern
Acer sp. <i>Drepanaphis knowltoni</i>		Agrimonia gryposepala <i>Macrosiphum agrimoniellum</i>	Agrimony
Acer negundo <i>Periphyllus negundinis</i>	Boxelder	Agrimony	see Agrimonia
Acer nigrum <i>Drepanaphis carolinensis</i>	Black Maple	Agropyron repens <i>Sipha agropyrella</i>	Quackgrass
Acer platanoides <i>Periphyllus lyropictus</i>	Norway Maple	**Agrostis tenuis <i>Aphis</i> sp.	Rhode Island Bent
Acer pseudoplatanus <i>Drepanosiphum platanoides</i> <i>?Periphyllus americanus</i> <i>Periphyllus lyropictus</i> <i>Periphyllus testudinacea</i>	Sycamore Maple	**Ajuga reptans <i>Brachycandus cardui</i> <i>?Myzus ajugae</i>	Rosary Pea
Acer rubrum <i>Prociphilus tessellatus</i>	Red Maple	**Albizzia julibrissin var. rosea <i>?Aphis fabae</i>	Mimosa, cult
Acer (dasycarpum) saccharinum <i>Drepanaphis</i> sp. <i>Prociphilus tessellatus</i>	Silver Maple	Alder	see Alnus
Acer saccharum <i>Drepanaphis acerifolii</i> <i>Periphyllus americanus</i> <i>Periphyllus lyropictus</i> <i>Shenahwecum minutum</i>	Sugar or Hard Maple	Alfalfa	see Medicago
*Acer spicatum <i>?Drepanaphis kansensis</i> <i>?Drepanaphis spicatum</i>	Mountain Maple	**Alisma plantago-aquatica <i>?Aphis</i> sp. <i>Aphis nasturtii</i> <i>Rhopalosiphum nymphaeae</i>	Water Plantain
Achillea lanulosa <i>Macrosiphoniella millefolii</i>	Western Yarrow	**Alliaria (alliaria) officinalis <i>Myzus persicae</i>	Garlic-mustard
Achillea millefolium <i>Macrosiphoniella</i> sp. <i>Macrosiphoniella millefolii</i>	Common Yarrow	Allium cepa <i>Neotoxoptera violae</i>	Onion
*Achillea millefolium var. rubra <i>Macrosiphoniella millefolii</i>		**Alternanthera sp. <i>Myzus persicae</i>	
		Alnus rugosa <i>Calaphis alni</i> <i>Myzocallis alnifoliae</i> <i>Prociphilus tessellatus</i>	Speckled Alder
		*Alnus serrata <i>Myzocallis alnifoliae</i>	

- Althea rosea** Hollyhock Angel's Trumpet see **Datura**
Acyrtosiphon solani
Aphis gossypii
Myzus persicae
- Alumroot see **Heuchera**
- ***Amaranthus caudatus** Love-lies-bleeding
Aphis sp.
Aphis fabae
- ***Amaranthus deflexus**
Aphis gossypii
Macrosiphum sp.
- ***Amaranthus graecizans** Tumbleweed Amaranth
Aphis fabae
- Amaranthus retroflexus** Redroot Amaranth
Aphis fabae
Brachycaudus maidiradicis
Macrosiphum euphorbiae
Myzus persicae
- Ambrosia artemisiifolia** Common Ragweed
Dactynotus ambrosiae
- Ambrosia trifida** Giant Ragweed
Dactynotus sp.
Dactynotus ambrosiae
- Amelanchier canadensis** Shadblow Serviceberry
Prociphilus corrugatus
- ***Amelanchier stolonifera**
 ?*Macrosiphum macrosiphum*
- ****Anagallis arvensis** Scarlet Pimpernel
Aphis gossypii
- Anaphalis** sp. Pearly Everlasting
Dactynotus sp.
- Anaphalis margaritacea** Common Pearly Everlasting
Brachycaudus helichrysi
Dactynotus sp.
Dactynotus ambrosiae complex
Dactynotus russellae
- ****Anemone virginiana** Virginia Anemone
Acyrtosiphon solani
- Antennaria** sp. Pussytoes
Dactynotus russellae
- Antennaria neodioica** Smaller Pussytoes
Dactynotus russellae
- Anthemis cotula** Dogfennel or Mayweed
Dactynotus sp.
Macrosiphoniella sp.
Macrosiphoniella (Paczoskia) sp.
Macrosiphoniella abrotani
Macrosiphoniella millefolii
- ***Apocrynum androsaemifolium** Spreading Dogbane
Aphis nerii
Aphis spiraeicola
Macrosiphum euphorbiae
- Apocynum cannabinum** Hemp Dogbane
Aphis asclepiadis
Aphis nerii
Aphis spiraeicola
Macrosiphum euphorbiae
- Apocynum cannabinum** var. **pubescens**
Aphis asclepiadis
- Apple see **Malus**
 Arborvitae see **Thuja**
- Aquilegia** sp. Columbine
Kakimia essigi
Macrosiphum euphorbiae
Longicaudus trirhoda
- Aquilegia canadensis** American Columbine
Pergandeidia trirhoda
- ***Aquilegia coerulea** Colorado Columbine
Pergandeidia trirhoda
- ***Aquilegia longissima** Longspur Columbine
Pergandeidia trirhoda
- Aquilegia vulgaris** European Columbine
Aphis gossypii

- Arctium** sp. Burdock ***Aster divaricatus**
Macrosiphum sp. *Aphis* sp.
- Arctium minus** Smaller Burdock **Aster ericoides** Heath Aster
Aphis fabae *Dactynotus paucosensoriatus*
- Arctostaphylos uva-ursi** Bearberry ***Aster laevis** Smooth Aster
Tamalia coweni *Dactynotus paucosensoriatus*
- Arctotis breviscapa**
Dactynotus ambrosiae complex **Aster lateriflorus** Calico Aster
Dactynotus paucosensoriatus
Dactynotus sonchi
- ****Arisaema triphyllum**
Small Jack-in-the-pulpit
Macrosiphum sp. ***Aster multiflorus**
Dactynotus paucosensoriatus
- Aronia arbutifolia** Red Chokeberry **Aster novae-angliae**
Aphis pomi New England Aster
Dactynotus paucosensoriatus
- Aronia melanocarpa** Black Chokeberry
Aphis pomi **Aster novibelgi** New York Aster
Dactynotus paucosensoriatus
- Arrowhead see **Sagittaria**
- Arrow-wood see **Viburnum**
- Artemisia schmidtiana nana**
Macrosiphoniella absinthii **Aster puniceus** Swamp Aster
Dactynotus paucosensoriatus
- Artemisia vulgaris** Mugwort **Aster simplex**
Macrosiphoniella coweni *Dactynotus crepusciphon*
Dactynotus nigrotuberculatus
Dactynotus paucosensoriatus
- Arum see **Calla** ***Aster tenacetifolia** Tansyleaf Aster
Dactynotus sp.
- Asclepias incarnata pulchra**
Hairy Swamp Milkweed **Aster umbellatus** Flattop Aster
Aphis asclepiadis *Dactynotus* sp.
Aphis nerii *Dactynotus paucosensoriatus*
- ***Asclepias purpurascens**
Purple Milkweed ***Aster undulata**
Aphis nerii *Dactynotus paucosensoriatus*
- Asclepias syriaca** Common Milkweed Aster, White-topped See **Sericocarpus**
- Aphis asclepiadis* ***Atriplex arenaria** Seabeach Orach
Aphis helianthi *Aphis* sp.
Aphis nerii *Aphis fabae*
Macrosiphum euphorbiae
- ***Asclepias syriaca** var. *alba*
Myzocallis asclepiadis **Atriplex patula** Orach or saltbush
Aphis fabae
Brachycaudis atriplicis
Hyalopterus pruni
- Aspen **Populus tremuloides** Avens, White see **Geum**
- Aster** sp. *Dactynotus* sp.
Dactynotus astronomus
Dactynotus paucosensoriatus
Macrosiphum euphorbiae **Baccharis halmifolia** Sea Myrtle
Aphis coreopsidis
Macrosiphum erigeronensis baccharidis

- Bachelor's-button **Centaurea**
- Barberry see **Berberis**
- Barnyard Grass see **Echinochloa**
- Beach Pea see **Lathyrus**
- Bean see **Phaseolus**
- Bearberry see **Arctostaphylos**
- Beech see **Fagus**
- Beggarticks see **Bidens**
- Beet see **Beta**
- Bellflower, Green see **Molucella**
- Berberis thunbergii** Japanese Barberry
Liosomaphis berberidis
- Bergamot, Wild see **Monarda fistulosa**
- Bergenia (Saxifraga) crassifolia**
Hyperomyzus pallidus
- Beta saccharifera** Sugar Beet
Aphis fabae
Pemphigus populiveneae
Smynturodes betae
- Beta vulgaris** Beet
Aphis fabae
Myzus persicae
- Betula** sp. Birch
Euceraphis punctipennis
- Betula alba** see **Betula pendula**
- Betula lenta** Sweet or Black Birch
Euceraphis mucida
Euceraphis punctipennis
Hamamelistes spinosus
- Betula lutea** Gray or Yellow Birch
Calaphis betulaecolens
Hamamelistes spinosus
- Betula nigra** Red or River Birch
Calaphis betulella
- Betula papyrifera** Paper Birch
Calaphis betulaecolens
Neosymydobius americanus
- Betula pendula, alba** in part
European White Birch
Calaphis annulata
- Betula populifolia** Gray Birch
Hamamelistes spinosus
- Bidens cernua** Nodding Beggarticks
Aphis coreopsidis
Dactynotus chrysanthemi
- Bidens comosa** Leafybract Beggarticks
Aphis coreopsidis
Dactynotus chrysanthemi
- ***Bidens discoidea** Discoid Beggarticks
Aphis coreopsidis
Macrosiphum euphorbiae
- Bidens frondosa** Devil's Beggarticks
Acyrtosiphon porosum
Aphis coreopsidis
Dactynotus chrysanthemi
- ***Bidens tripartita** Burr Beggarticks
Dactynotus chrysanthemi
- Bidens vulgata** Tall Beggarticks
Aphis coreopsidis
Dactynotus chrysanthemi
- Birch see **Betula**
- Bittersweet see **Celastrus**
- Blackberry see **Rubus**
- Blackeyed Susan see **Rudbeckia**
- Bloodroot see **Sanguinaria**
- Blueberry see **Vaccinium**
- Bluegrass see **Poa**
- ****Boehmeria cylindrica**
Smallspike Falsenettle or Bog Hemp
Aphis gossypii
Dactynotus ambrosiae complex
- Bog Hemp see **Boehmeria**
- Boneset see **Eupatorium**
- Borage see **Borago**
- ****Borago officinalis** Borage, Common
Aphis fabae
- Boston Ivy see **Parthenocissus tricuspidata**
- Boxelder see **Acer negundo**

- Boysenberry see **Rubus loganbaccus** Cantaloupe
see **Cucumis melo cantaloupensis**
- Brake Fern see **Pteridium**
- Brassica napobrassica** Rutabaga
Brevicoryne brassicae
Myzus persicae
- ***Brassica oleracea bullata** Savoy Cabbage
Myzus persicae
- Brassica oleracea capitata** Cabbage
Brevicoryne brassicae
- Brassica oleracea gemmifera** Brussels Sprouts
Brevicoryne brassicae
- ***Brassica oleracea rubra** Red Cabbage
Brevicoryne brassicae
- Brassica rapa** Turnip
Brevicoryne brassicae
- Broadbean see **Vicia faba**
- Brussels Sprouts see **Brassica**
- Buckwheat see **Fagopyrum**
- Burdock see **Arctium**
- Buttonbush see **Cephalanthus**
- Cabbage see **Brassica**
- Cacalia coccinea** see **Emilia saggitata**
- Calendula officinalis** Pot Marigold
Aphis fabae
Dactynotus sp.
Dactynotus ambrosiae complex
Macrosiphum euphorbiae
Myzus persicae
- ****Calla palustris** Wild Arum
Rhopalosiphum nymphaea
- Callistephus chinensis** China Aster
Acyrtosiphon solani
Brachycaudus maidiradicis
Myzus persicae
- ****Calycanthus florida** Carolina Allspice
Aphis fabae
- Capsella bursa-pastoris** Shepard's Purse
Aphis fabae
- Capsicum frutescens** Redpepper
Myzus persicae
- Caraway see **Carum**
- Cardoon see **Cynara**
- ****Carduus nutans** Musk Thistle
Brachycaudus cardui
- Carnation see **Dianthus**
- Carolina Allspice see **Calycanthus**
- Carpetweed see **Molugo**
- Carpinus caroliniana** American Hornbeam
Macrosiphum carpinicolens
- Carrion Flower see **Smilax**
- Carrot see **Daucus carota**
- Carum carvi** Caraway
Aphis sp.
- Carya** sp. Hickory
Monellia costalis
Monelliopsis n.sp.
- Carya cordiformis** Bitternut Hickory
Melanocallis caryaefoliae
Monellia caryaella
Monellia costalis
Monelliopsis nigropunctata
Monelliopsis n.sp.
- Carya glabra** Pignut Hickory
Monelliopsis nigropunctata
- Carya ovata** Shagbark Hickory
Melanocallis caryaefoliae
Monellia n.sp. (Bissell)
Monellia caryaella
Monellia costalis
Monelliopsis nigropunctata
Monelliopsis n.sp.
Protopterocallis canedensis
- Carya tomentosa (alba)** Mockernut Hickory
Monellia costalis
Monellia microsetosa
Monelliopsis nigropunctata

- **Cassia nictitans** Wild sensitive Plant
Dactynotus sp.
- Catalpa** sp.
Aphis gossypii
- Catalpa bignonioides**
Aphis gossypii Southern catalpa
- Cat Greenbrier see **Smilax**
- Catsear, Spotted see **Hypochoeris**
- Celastrus orbiculatus**
Aphis fabae Oriental Bittersweet
- Celastrus scandens**
Aphis sp.
Aphis fabae
Macrosiphum sp. American Bittersweet
- **Celosia argentea** var. **cristata**
Common Feather Cockscomb
Aphis fabae complex
- **Celtis occidentalis**
Aphis fabae Common Hackberry
- **Centaurea americana** Star Thistle
Aphis fabae
Myzus persicae
- *Centaurea cyanus**
Cornflower, Bachelor's-button
Hyalopteroideis pallida
- *Centaurea dealbata**
Dactynotus pepperi Persian Centaurea
- *Centaurea vochinensis**
Myzus persicae
- **Centranthus ruber**
Aphis sp.
Aphis fabae
Aphis gossypii
Macrosiphum euphorbiae
Macrosiphum rosae
- Cephalanthus occidentalis** Buttonbush
Aphis cephalanthi
- Chaenomeles (Cydonia) japonica**
Japanese Flowering Quince
Aphis pomi
- **Chamaecyparis thyoides**
Cinara sp. White Cedar
- **Chelone glabra** White Turtlehead
Pseudoasiphonaphis corni
- Chenopodium album**
Lambsquarters or Pigweed
Aphis craccivora
Aphis fabae
Brachycaudus atriplicis
- *Chenopodium ambrosioides**
Aphis fabae Mexican Tea
- *Chenopodium hybridum**
Aphis fabae Mapleleaf Goosefoot
- Cherry see **Prunus**
- Chicory see **Cicorium**
- Chickweed see **Stellaria**
- China Aster see **Callistephus**
- Chokeberry see **Aronia**
- Chokecherry see **Prunus**
- Christmas Rose see **Helleborus**
- Chrysanthemum** sp.
Coloradoa rufomaculata
Macrosiphoniella sanborni
Myzus persicae
- *Chrysanthemum carinatum**
Annual Chrysanthemum
Macrosiphoniella sanborni
- Chrysanthemum leucanthemum**
Dactynotus sp.
Macrosiphum sp.
Macrosiphoniella millefolii Ox-eye Daisy
- Chrysanthemum morifolium**
Florists' Chrysanthemum
Macrosiphoniella sp.
Dactynotus ambrosiae complex
Macrosiphoniella sanborni
Myzus persicae
- *Chrysanthemum parthenium**
Aphis spiraeicola Feverfew

- *Chrysanthemum segetum** Coneflower see **Echinacea**
 Corn Chrysanthemum
Macrosiphoniella sanborni
- Cichorium intybus** Common Chicory
?Dactynotus pseudambrosiae
Nasonovia ribisnigri
- *Cicuta bulbifera** Bulb Waterhemlock
Cavariella konoii Takehashi
- Cicuta maculata** Spotted Waterhemlock
?Cavariella aegopodii
Cavariella essigi
Cavariella hendersonii
Hyadaphis foeniculi
- Cineraria see **Senecio**
- Cinnamon Fern see **Osmunda**
- Cinquefoil see **Potentilla**
- Cirsium** sp. Thistle
Dactynotus sp.
- Cirsium arvense** Canada Thistle
Aphis fabae
Brachycaudus cardui
?Dactynotus nigrotuberculatus
Dactynotus pepperi
- Cirsium discolor** Field Thistle
Brachycaudus cardui
Capitophorus elaeagni
- Cirsium (lanceolatum) vulgare** Bull Thistle
Brachycaudus cardui
- **Citrus sinensis** Sweet Orange
Macrosiphum euphorbiae
- Clearweed see **Pilea**
- **Cleome spinosa** Spiderflower
Myzus persicae
- Clover see **Trifolium**
- Cockscomb see **Celosia**
- **Coix lachryma-jobi** Job's Tears
- Columbine see **Aquilegia**
- **Comptonia peregrina** var. **asplenifolia** Sweetfern
Cepegillettea myricae
- **Convalaria majalis** Lily-of-the-Valley
Macrosiphum pechumanni
- *Coreopsis lanceolata**
Aphis coreopsidis
- Corn see **Zea**
- Cornflower see **Centaurea**
- Corn Poppy see **Papaver**
- Cornus amomum** Silky Dogwood
Anoecia corni
- *Cornus florida** Flowering Dogwood
Anoecia corni
- Cornus rugosa**
Anoecia corni
- Corylus** sp. Filbert
Myzocallis coryli
- Corylus americana** American Filbert
Macrosiphum sp.
Myzocallis coryli
- Cotton, Oriental see **Gossypium**
- Cottonwood see **Populus deltoides**
- Cowparsnip see **Heracleum**
- Crabapple see **Malus**
- Cranberrybush see **Viburnum**
- Crataegus** sp. Hawthorn
Eriosoma crataegi
Rhopalosiphum fitchii
- Crataegus crusgalli** Cockspur Hawthorn
Aphis spiraeicola
Eriosoma crataegi
- Crataegus oxycantha** English Hawthorn
Aphis spiraeicola
Brachycaudus crataegifoliae
Eriosoma crataegi
- Crataegus oxycantha** var. **paulii** Paul's Scarlet thorn
Brachycaudus crataegifoliae

- Crocus** sp.
Myzus persicae
- Crown-beard see *Verbesina*
- **Cryptotaenia canadensis** Honewort
Cavariella aegopodii
- Cucumber see **Cucumis sativa**
- Cucumber Tree
see **Magnolia acuminata**
- Cucumis melo cantaloupensis** Cantaloupe
Aphis gossypii
- Cucumis sativa** Cucumber
Aphis gossypii
- *Cucurbita ficolia** Malabar Gourd
Aphis craccivora
Aphis gossypii
- Cucurbita maxima** Squash
Aphis gossypii
- Cucurbita moschata** Cushaw or Crookneck Squash
Aphis gossypii
- Cudweed see **Gnaphalium**
- Currant see **Ribes**
- Cushaw see **Cucurbita moschata**
- Cutgrass see **Leersia**
- Cydonia** sp. Wild Quince
Aphis spiraeicola
Cynara cardunculus Cardoon
Aphis fabae
Capitophorus elaeagni
- *Cynoglossum officinale** Common Houndstongue
Myzus persicae
- **Cypripedium acaule** Moccasin Flower or Common Lady's-slipper
Acyrtosiphon solani
- *Cypripedium candidum** Small White Lady's-slipper
Aphis sp.
Acyrtosiphon solani
- *Cypripedium parviflorum** Yellow Lady's-slipper
Acyrtosiphon solani
- *Cypripedium reginae** Showy Lady's-slipper
Aphis sp.
Acyrtosiphon solani
- Dactylis glomerata** Orchardgrass
Hyalopteroides humilis
Hyalopteroides pallida
- *Dahlia juarezi** Cactus Dahlia
Aphis fabae
- Dahlia pinnata** Aztec Dahlia
Aphis fabae
- Daisy Fleabane see **Erigeron annuus**
- Dame's Rocket see **Hesperis**
- Dandelion see **Taraxacum**
- **Datura arborea** Angel's Trumpet
Myzus persicae
- *Datura metaloides** Sacred Datura
Myzus persicae
- *Datura stramonium** Jimsonweed Datura
Myzus persicae
- Daucus carota** Wild Carrott, Queen Anne's Lace
Aphis gossypii
Cavariella aegopodii
Dactynotus ambrosiae complex
- Daucus carota** Garden Carrot
Aphis spiraeicola
Cavariella essigi
- Dead-Nettle see **Lamium**
- Decodon verticillatus** Swamp Loosestrife
Myzus lythri
- *Delphinium elatum** Bee Larkspur
Macrosiphum euphorbiae
- Devil's Claws see **Martynia**
- Devil's Paintbrush
see **Hieraceum aurantiacum**

- Dianthus caryophyllus** Carnation
Myzus persicae
- **Digitalis purpurea** Common Foxglove
Acyrtosiphon solani
Aphis fabae
- Dock see **Rumex**
- **Dodecatheon** sp. Shootingstar
Myzus persicae
- *Dodecatheon meadia**
Aphis gossypii
- Dogbane see **Apocynum**
- Dogfennel see **Anthemis**
- Dogwood see **Cornus**
- Duckweed see **Lemna**
- **Echinacea purpurea** Purple Coneflower
Dactynotus leonardi
- Echinochloa crusgalli** Barnyard Grass
Rhopalosiphum maidis
- Eggplant see **Solanum melogena**
- Elaeagnus angustifolia** Russian Olive
Capitophorus elacagni
- Elder see **Sambucus**
- Eleusine indica** Goosegrass
Anoecia quercii
- Elm see **Ulmus**
- Emila saggitata** Tasselflower
Myzus persicae
- *Epilobium adenocaulon** Sticky Willowweed
Aphis nasturtii
- *Epilobium angustifolium** Fireweed
Aphis sp.
Dactynotus sp.
Macrosiphum sp.
?Macrosiphum euphorbiae
- **Epipactis (Serapias helleborine) latifolia** Hellebore Orchid
Aphis sp.
- Erechtites hieraceifolia** Fireweed
Aphis fabae
Dactynotus sp.
- Erigeron annuus** Daisy Fleabane
Acyrtosiphon solani
Dactynotus erigeronensis
Dactynotus gravicornis
Dactynotus paucosensoriatus
Dactynotus tissoti
- Erigeron canadensis** Horseweed Fleabane
Aphis sp.
?Aphis armoraciae
Dactynotus sp.
Dactynotus erigeronensis
Dactynotus gravicornis
Dactynotus sonchi
- Erigeron pulchellus** Robin's Plantain
Dactynotus gravicornis
- *Erigeron ramosus**
Dactynotus sp.
Dactynotus gravicornis
- Erigeron strigosus**
Dactynotus gravicornis
- **Erysimum repandum**
Myzus persicae
- Euonymus** sp. Spindletree
Aphis fabae
- *Euonymus alatus** Winged Euonymus
Aphis fabae
- Euonymus europaeus** European Spindletree
Aphis fabae
Eupatorium sp.
Dactynotus sp.
- Eupatorium coelestinum forma alba** Mistflower
Aphis sp.
Dactynotus sp.
Dactynotus ambrosiae complex
- Eupatorium perfoliatum** Boneset
Aphis sp.
Aphis fabae
Dactynotus sp.
Dactynotus ambrosiae complex

Eupatorium maculatum Spotted Joepeyeweed <i>Dactynotus</i> sp. <i>Dactynotus ambrosiae</i> complex	Foeniculum vulgare Common Fennel <i>Aphis</i> sp. <i>Cavariella aegopodii</i>
*Eupatorium pilosum <i>Dactynotus</i> sp.	Forget-me-not see Myosotis
Eupatorium purpureum Bluestem Joepeyeweed	Four-o'-clock see Mirabilis
<i>Aphis gossypii</i> <i>Dactynotus</i> sp. <i>Dactynotus ambrosiae</i> complex	Foxglove see Digitalis
*Eupatorium rotundifolium <i>Dactynotus</i> sp.	Foxtail see Setaria
Evening Primrose see Oenothera	Fragaria virginiana Virginia Strawberry <i>Acyrtosiphon porosum</i> <i>Aphis forbesi</i> <i>Chaetosiphon minor</i> <i>Macrosiphum pechumani</i>
Everlasting see Anaphalis	Funkia see Hosta
Everlasting Pea see Lathyrus	**Gaillardia (aristosa) pulchella <i>Aphis fabae</i> <i>Macrosiphoniella</i> sp.
Fagopyrum sagittatum Buckwheat <i>Aphis fabae</i>	**Galinsoga parviflora Quickweed <i>Aphis</i> sp.
Fagus (americana) grandifolia American Beech <i>Phyllaphis fagi</i>	Galium aparine <i>Acyrtosiphon solani</i> <i>Aphis fabae</i> <i>Aphis gossypii</i> <i>Macrosiphum avenae</i>
Fagus sylvatica European Beech <i>Phyllaphis fagi</i>	*Galium cerceazans Wild Licorice <i>Aphis gossypii</i> as <i>A. cerceazandis</i>
Fagus sylvatica var. atropunicea Copper Beech <i>Phyllaphis fagi</i>	Garden Balsam see Impatiens
False Hellebore see Veratrum	Garlic-Mustard see Alliaria
False Nettle see Boehemeria	**Gaura biennis Biennial Gaura <i>Macrosiphum gaurae</i>
False Solomon's Seal see Smilacina	*Gaura lindheimeri White Gaura <i>Macrosiphum gaurae</i>
False Spikenard see Smilacina	**Gazania rigens Treasureflower Gazania <i>Dactynotus</i> sp.
Fennel see Foeniculum	Geranium, Florists see Pelargonium
Feverfew see Chrysanthemum parthenium	*Geranium maculatum Spotted Geranium <i>Acyrtosiphon pelargonii</i> <i>?Cavariella aegopodii</i>
Filbert see Corylus	**Gerardia (Aureolaria) flava <i>Aphis gerardiae</i>
Fir see Abies	
Firethorn see Pyracantha	
Fireweed see Epilobium, Erechites	
Flax see Linum	

- Gerbera** sp.
Acyrtosiphon solani
Myzus persicae
- Germander see **Teuchrium**
- Geum canadense** White Avens
Amphorophora rossi
Macrosiphum rosae
- *Geum virginianum**
Amphorophora rossi
Macrosiphum pallidum
- Gladiolus** sp.
Macrosiphum euphorbiae
- Globeflower see **Trollius**
- **Glyceria grandis**
 American Mannagrass
Macrosiphum avenae
- Gnaphalium obtusifolium**
 Fragrant Cudweed
Dactynotus sp.
- Gnaphalium polycephalum**
Aphis gossypii
Dactynotus sp.
- *Gnaphalium purpureum**
 ?*Dactynotus pseudambrosiae*
- Golden Chain Tree
 see **Laburnum anagyroides**
- Goldenrod see **Solidago**
- Goosefoot, Mapleleaf
 see **Chenopodium hybridum**
- Goosegrass see **Eleusine**
- *Gossypium obtusifolium**
 Oriental Cotton
Aphis gossypii
- Grape see **Vitis**
- Groundsel see **Senecio**
- Hackberry see **Celtis**
- Hamamelis virginiana** Witchhazel
Hamamelistes spinosus
Hormaphis hamamelidis
- Hawthorn see **Crataegus**
- Heart's-ease
 see **Polygonum persicaria**
- Hedera helix** English Ivy
Aphis hederac
- Hedge Mustard see **Sisymbrium**
- Helenium** sp.
Dactynotus sp.
- Helianthus annuus**
 Common Sunflower
Aphis sp.
Myzus persicae
- Helianthus giganteus** Giant Sunflower
Aphis helianthi
- *Helianthus strumosus** Woodland Sunflower
Dactynotus helianthicola
- Helianthus tuberosus** Jerusalem Artichoke
Aphis armoraciae
Dactynotus helianthicola
- **Helleborus niger** Christmas Rose
Macrosiphum sp.
Myzus persicae
- *Helleborus viridis**
Macrosiphum sp.
- Helichrysum bracteatum** Strawflower
Myzus persicae
- **Heliopsis helianthoides** Ox-eye Daisy
Dactynotus leonardi
- Heracleum lanatum** Common Cowparsnip
Aphis helianthi
Aphis heraclella
Cavariella sp.
Cavariella essigi
Hyadaphis foeniculi
- Herb Treemallow see **Lavatera**
- **Hesperis matronalis** Dame's Rocket
Aphis sp.
- **Heuchera americana** American Alumroot
Aphis spiraeicola

- Hibiscus** sp.
Macrosiphum pechumani
- Hibiscus esculentus** Okra
Acyrtosiphon solani
Aphis gossypii
Macrosiphum euphorbiae
Myzus persicae
- ***Hibiscus palustris**
Rosemallow or Marshmallow
Aphis craccivora
- Hibiscus syriacus** Rose-of-Sharon
Aphis gossypii
- "Hiccan" Pecan X Hickory
Monellis costalis
- Hickory see **Carya**
- ***Hieracium** sp.
Dactynotus sp.
- ***Hieracium aurantiacum** Devil's Paintbrush
Nasonovia ribisnigri
- Hieracium canadense** var. **hirtirameum**
Dactynotus sp.
- Hieracium florentinum**
Dactynotus sp.
- Hieracium floribundum** King Devil
Dactynotus pseudambrosiae
- Hieracium pilosella**
Nasonovia ribisnigri
- Hieracium pratense** King Devil
Dactynotus sp.
Nasonovia ribisnigri
- ***Hieracium rubrum**
Dactynotus sp.
Nasonovia ribisnigri
- ***Hieracium venosum**
Dactynotus sp.
- ****Holcus sorghum** var. **durra**
Rhopalosiphum maidis
- Hollyhock see **Althea rosea**
- Honeysuckle see **Lonicera**
- Honewort see **Cryptotaenia**
- Horehound see **Marrubium**
- Hornbeam see **Ostrya, Carpinus**
- Horsemint see **Mentha longifolia**
- Horseweed see **Leptilon**
- Horseweed Fleabane
see **Erigeron canadensis**
- ****Hosta ventricosa** (caerulea)
Blue Plantain-lily or Funkia
?Aphis fabae
- Houndstongue see **Cynoglossum**
- Hydrangea hortensis**
?Acyrtosiphon porosum
- Hypochoeris radicata** Spotted Cat's-ear
Dactynotus sp.
- ***Ilex aquifolium** English Holly
Macrosiphum rosae
- ***Impatiens balsamina** Garden Balsam
?Aphis gossypii
- Impatiens biflora** Spotted Touch-me-not
Aphis sp.
Aphis n.sp.
?Aphis impatientis
Dactynotus impatiensicolens
Macrosiphum pallidum
- ***Impatiens pallida** Yellow Touch-me-not
Catamergus fulvae
Dactynotus impatiensicola
Macrosiphum pallidum
- Ipomoea purpurea** Morning Glory
Myzus persicae
- Iris** sp.
Macrosiphum euphorbiae
- Iris** sp. (bearded)
Aphis fabae
Dysaphis tulipae
Macrosiphum avenae
Macrosiphum euphorbiae
Rhopalosiphum maidis
- ***Iris alberti** Albert Iris
Dysaphis tulipae

- *Iris aphylla** Stool Iris **Lactuca canadensis** Canada Lettuce
Dysaphis tulipae
Dactynotus pseudambrosiae
Dactynotus sonchi
- *Iris croatica**
Dysaphis tulipae **Macrosiphum euphorbiae**
Nasonovia lactucae
- Iris (frutescens) oraria**
Dactynotus ambrosiae **Lactuca saggitifolia**
Dactynotus ambrosiae complex *Dactynotus pseudambrosiae*
- *Iris pallida**
(a white mutant) Sweet Iris **Lactuca sativa** Garden Lettuce
Dysaphis tulipae *Acyrtosiphon scariolae*
Dactynotus pseudambrosiae
Macrosiphum euphorbiae
- *Iris perrieri**
Dysaphis tulipae ***Lactuca sativa capitata** Head Lettuce
Myzus persicae
- *Iris variegata** Hungarian Iris ***Lactuca sativa** var. **longifolia** Longleaf Garden Lettuce
Dysaphis tulipae *Acyrtosiphon scariolae*
- Ivy, English see **Hedera**
- Jack-in-the-Pulpit, small see **Arisaema**
- Japanese Flowering Quince see **Chaenomeles**
- Jerusalem Artichoke see **Helianthus tuberosus**
- Jimsonweed see **Datura**
- Joeyeweed see **Eupatorium**
- Juglans nigra** Black Walnut **Lactuca serriola** Prickly Lettuce
Monelliopsis n.sp. *Dactynotus pseudambrosiae*
Monelliopsis caryae *Dactynotus sonchi*
- Juglans regia** Carpathian or Persian Walnut **Lactuca serriola** var. **integrata**
Chromaphis jugandicola *Nasonovia lactucae*
- Juniperus virginiana** *Cinara cupressi* or *sabinae*
- King Devil see **Hieracium floribundum** and **H. pratense**
- **Kochia scoparia** Belvedere Summer Cypress ***Lathyrus japonica** (maritimus) var. **glaber** Beach Pea
Aphis craccivora *Acyrtosiphon pisum*
- Laburnum anagyroides** Goldenchain Tree ***Lathyrus latifolius** Everlasting Pea
Aphis craccivora *Acyrtosiphon pisum*
- Lactuca** sp. (Lettuce) **Lathyrus odortatus** Sweet Pea
Dactynotus pseudambrosiae ?complex *Acyrtosiphon pisum*
- *Lactuca sativa capitata** Head Lettuce ****Lavantera trimestris** Herb Treemallow
Myzus persicae

Leersia (Homalocentrus) virginica	Lily-of-the-Valley, wild	see Pyrola
Cutgrass		
<i>Rhopalosiphum nymphacae</i>	**Linaria canadensis	
Lemna sp.	Duckweed	
<i>Rhopalosiphum nymphacae</i>	Linden	see Tilia
**Leonurus cardiaca	Motherwort	**Linum grandiflorum (Flax)
<i>Cryptomyzus ribis</i>		<i>Aphis fabae</i>
*Lepidium sativum	Peppergrass	<i>Myzus persicae</i>
<i>Brevicoryne brassicae</i>	Lion's Foot	see Prenanthes
Lepidium virginicum	Peppergrass	Liriodendron tulipifera
<i>Aphis craccivora</i>		<i>Macrosiphum liriodendri</i>
<i>Aphis gossypii</i>	Liveforever	see Sedum
**Leptilon canadensis	Horseweed	Lobelia syphilitica
<i>Dactynotus erigeronensis</i>		<i>Capitophorus elaeagni</i>
Lettuce	see Lactuca	Locust
Levisticum officinale	Garden Lovage	see Robinia
<i>Aphis sp.</i>		Lonicera sp.
Licorice, Wild		an ornamental Honeysuckle
see Galium circaezans		<i>Hyadaphis foeniculi</i>
Ligusticum scoticum	Scotch Lovage	Lonicera sempervirens
<i>Aphis fabae</i>		Trumpet Honeysuckle
*Ligustrum ovalifolium	California Privet	<i>Hyadaphis foeniculi</i>
<i>Myzus ligustri</i>		Lonicera tartarica
Lilium canadensis	Canada Lily	Tartarian Honeysuckle
<i>Macrosiphum lili</i>		<i>Hyadaphis foeniculi</i>
*Lilium henryi	Henry Lily	*Lonicera xylosteum
<i>Macrosiphum lili</i>		Fly Honeysuckle
Lilium speciosum	Speciosum Lily	<i>Hyadaphis foeniculi</i>
<i>Macrosiphum sp.</i>		**Lunaria annua
*Lilium speciosum rubrum	Pink Speciosum Lily	<i>Myzus persicae</i>
<i>Macrosiphum lili</i>		Loosestrife
Lilium superbum	Turkscap Lily	see Decadon, Lythrum, Steironema
<i>Acyrtosiphon solani</i>		Lovage, Garden
<i>Macrosiphon lili</i>		see Levisticum
Lilium tigrinum	Tiger Lily	Love-lies-bleeding
<i>Macrosiphum lili</i>		see Amaranthus
Lily	see Lilium	Lupine
Lily-of-the-Valley	see Convallaria	see Lupinus
		Lupinus sp.
		Lupine cult
		<i>Macrosiphum albifrons</i>
		*Lupulinus perennis
		Sundial Lupine
		<i>Macrosiphum albifrons</i>
		Lychnis alba
		White Campion
		<i>Aphis fabae</i>

- Lychnis dioica**
Myzus persicae
- Lycopersicon esculentum** Tomato
Acyrtosiphon solani
Macrosiphum euphorbiae
- ***Lysimachia clethroides** Clethra Loosestrife
Aphis sp.
? *Aphis frangulae*
- Lysimachia quadrifolia** Fourleaf Loosestrife
Cavariella sp.
Pemphigini
Thecabius sp.
- Lysimachia terrestris** Swamp Loosestrife
Acyrtosiphon solani
- ***Lythrum** sp. (a cult var.) Loosestrife
Myzus lythri
- ***Lythrum alatum** Winged Loosestrife or Lythrum
Myzus lythri
- ***Lythrum latifolia**
Acyrtosiphon solani
- Lythrum salicaria** Purple or Spiked Loosestrife
Myzus lythri
- Magnolia acuminata** Cucumber Tree
Macrosiphum liriodendri
- Maidenhair Fern see **Adiantum**
- ****Malope trifida grandiflora**
Macrosiphum euphorbiae
Myzus persicae
- Malus** sp. Crabapple
Rhopalosiphum fitchii
- Malus** sp. Flowering Crabapple
Aphis pomi
- ***Malus arnoldiana** Arnold Crabapple
Eriosoma lanigerum
- Malus baccata** Siberian Crabapple
Aphis pomi
- Malus coronaria** Wild Sweet Crabapple
Eriosoma lanigerum
- Malus ioensis** var. **plena** Bechtel's Crab
Aphis pomi
- Malus pumila** Apple
Aphis pomi
- ***Malus robusta** Cherry Crabapple
Myzus persicae
- ***Malva moschata** Musk Mallow
? *Myzus persicae*
- ***Malva neglecta**
? *Myzus persicae*
- Mannagrass see **Glyceria**
- Marigold see **Tagetes**
- ****Marrubium vulgare** Horehound
Acyrtosiphon solani
- Marshmallow see **Hibiscus palustris**
- Martinia louisiana** Devil's Claws
Aphis gossypii
Macrosiphum euphorbiae
Myzus persicae
- ***Matricaria inodora** Scentless Mayweed
Aphis fabae
- Matricaria matricarioides** Pineappleweed
Acyrtosiphon solani
Aphis fabae
- Mathiola incana** Stock
Hyadaphis pseudobrassicae
- Mayweed see **Anthemis** and **Matricaria**
- Meadowrue see **Thalictrum**
- Medicago sativa** Alfalfa
Acyrtosiphon pisi
Aphis craccivora
- Melilotus alba** White Sweetclover
Acyrtosiphon pisum
Therioaphis riehmi
- ***Mentha arvensis** Field Mint
Ovatus crataegarius
- ***Mentha canadensis** Canada Mint
Ovatus crataegarius
- ***Mentha citrata** Bergamot Mint
Ovatus crataegarius

- Mentha crispa** Crispleaf Mint Musk Mallow see **Malva**
Ovatus crataegarius
- *Mentha longifolia** Horsemint Musk Thistle see **Carduus**
Ovatus crataegarius
- *Mentha piperata** Peppermint *Myzus persicae* True Forget-me-not
- *Mentha rotundifolia** Apple Mint ****Myrica cerifera** Wax Myrtle
Aphis gossypii *Cepigillettea myricae*
- Ovatus crataegarius* ***Myrica gale** Sweet Gale
Cepigillettea myricae
- Mentha spicata** Spearmint Nasturtium see **Tropaeolum**
Ovatus crataegarius
- Mexican Tea see **Chenopodium** Nettle see **Urtica**
- Milkweed see **Asclepias** Nightshade see **Solanum**
- Mimosa, cult see **Albizzia** Ninebark see **Physocarpus**
- Mint see **Mentha** **Nymphaea odorata** Pondlily
Rhopalosiphum nymphaeae
- Mirabilis jalapa** Common Four-o'clock **Nyssa sylvatica** Tupelo
Aphis craccivora *Aphis coreopsidis*
Dactynotus ambrosiae complex
- Mistflower see **Eupatorium**
- Mockernut Hickory see **Carya tomentosa**
- Mockorange see **Philadelphus**
- **Mollugo verticillata** Carpetweed **Oenothera sp.** Evening Primrose
Aphis sp. *Macrosiphum gaurae*
- **Molucella laevis** Green Bellflower **Oenothera biennis** Common Evening Primrose
Acyrtosiphon solani *Aphis craccivora*
Brevicoryne brassicae *Aphis oenotherae*
Aphis oestlundii
Macrosiphum gaurae
- Monarda didyma** Oswego Beebalm ***Oenothera fruticosa** Common Sundrops
Macrosiphum euphorbiae *Aphis oestlundii*
Dactynotus sp.
- Monarda fistulosa** Wild Bergamot **Oenothera parviflora** var. **oaksiana**
Aphis monardae *Aphis oenotherae*
- Morning Glory see **Ipomoea**
- Motherwort see **Marrubium**
- Moth Mullen see **Verbascum blattaria**
- Mountain Ash see **Sorbus**
- Mugwort see **Artemisia vulgaris**
- **Muhlenbergia schreberi** **Onoclea sensibilis** Sensitive Fern
Hyalopteroides humilis *Amphorophora laingi*
- Orach see **Atriplex**
- Orange see **Citrus**

- Orchard Grass see *Dactylis*
- Osmorhiza claytoni** Sweet Jarvil
Aphis fabae
Cavariella aegopodii
Cavariella theobaldi
- ***Osmorhiza longistylus** Anise Root
Aphis fabae
- ****Osmunda cinnamomea** Cinnamon Fern
 ?*Amphorophora laingi*
- ***Osmunda regalis** Royal Fern
 ?*Macrosiphum peticolens*
- Ostrich Fern see **Pteretis**
- ****Ostrya virginiana** Hornbeam
Macrosiphum pseudocoryli
- Oswego Beebalm see **Monarda didyma**
- Ox-eye see **Heliopsis**
- Ox-eye Daisy
 see **Chrysanthemum leucanthemum**
- Panicum capillare** Old Witchgrass
Rhopalosiphum maidis
- ***Panicum clandestinum**
Hysteroneura setariae
- ***Panicum dichotomoflorum**
Rhopalosiphum maidis
- Pansy see **Viola**
- Papaver rhoeas strain** Shirley or Corn Poppy
Aphis fabae
- ***Papaver somniferum** Opium Poppy
Aphis gossypii
Macrosiphum euphorbiae
- Parsnip see **Pastinaca**
- ***Parthenocissus quinquefolia** Virginia Creeper
Aphis folsomii
- Parthenocissus tricuspidata** Boston Ivy
Aphis folsomii
- Pastinaca sativa** Garden Parsnip
Cavariella ?konoii
Cavariella theobaldi
Hyadaphis foeniculi
- ****Paulownia tomentosa** Royal Paulownia
Myzus persicae
- Paul's Scarlet Thorn
 see **Crataegus oxycantha** var. *paulii*
- Pea see **Pisum**
- Peach see **Prunus persicae**
- Pear see **Pyrus**
- ***Pelargonium hortorum** Florists' Pelargonium
Acyrtosiphon pelargonii
- Peppergrass see **Lepidium**
- Peppermint see **Mentha piperata**
- Periwinkle **Vinca**
- Petroselinum crispum** Common Parsley
Myzus persicae
- Petunia** sp.
Aphis fabae
Macrosiphum euphorbiae
- ***Petunia violacea** Violet Petunia
Myzus persicae
- ***Petunia vulgaris**
Myzus persicae
- ***Phaseolus coccineus** Scarlet Runner
Aphis fabae
- Phaseolus limensis** Lima Bean
Aphis craccivora
Aphis gossypii
- Phaseolus vulgaris** Kidney Bean
Myzus persicae
Smynturoides betae
- ***Philadelphus coronarius** Sweet Mock Orange
Aphis fabae
Macrosiphum rosae
Myzus persicae
- Phlox** sp. cult
Acyrtosiphon solani
Aphis sp.
Aphis fabae
- Phragmites communis** Common Reed
Hyalopecterus pruni

- **Physocarpus opulifolius** Common Ninebark
Aphis neilliae
Hyalomyzus humboldti
- Picea (excelsa) abies** Norway Spruce
Cinara formacula
Cinara pilicornis
- Picea glauca** White Spruce
Cinara pilicornis
- Picea pungens** Colorado Spruce
Cinara pilicornis
- Pickeralweed see **Pontederia**
- **Pieris japonica**
Aphis spiraeicola
- Pigweed see **Amaranthus**
- Pigweed see **Chenopodium album**
- **Pilea pumila** Canada Clearweed
Pseudasiphonaphis corni
- Pine see **Pinus**
- Pineappleweed see **Matricaria**
- Pinus resinosa** Red or Norway Pine
Schizolachnus piniradiatae
- Pinus rigida** Pitch Pine
Cinara pinivora
Cinara watsoni
- Pinus strobus** White Pine
Cinara strobi
- Pinus sylvestris** Scotch Pine
Cinara pinea
Eulachnus agilis or *rileyi*
Schizolachnus piniradiatae
- Pisum sativum** Garden Pea
Acyrtosiphon pisum
- Plantain-lily see **Hosta**
- Platanus sp.** Sycamore
Longistigma caryae
- Plum see **Prunus**
- **Poa trivialis** Roughstalk Bluegrass
Macrosiphum avenae
- Poison Ivy see **Rhus**
- Polianthes tuberosa** Tuberosa
Aphis fabae
- **Polygonatum caniculatum** Solomon's Seal
Macrosiphum kikapoo
- Polygonum convolvulus**
Macrosiphum venafuscae
- *Polygonum hydropiper** Common Smartweed
Macrosiphum euphorbiae
- Polygonum lapathifolium** Curltop Ladysthumb
Capitophorus hippophoes
- Polygonum persicaria** Heart's-ease
Capitophorus hippophoes
Capitophorus hippophoes javanicus
- *Polygonatum pubescens**
Macrosiphum kikapoo
- *Polygonum setaceum** Bristly Smartweed
Capitophorus hippophoes
- Pondlily see **Nymphaea**
- **Pontederia cordata** Pickerelweed
Rhopalosiphum nymphaeae
- Poplar see **Populus**
- Poppy see **Papaver**
- Populus deltoides** Cottonwood
Chaitophorus populicola patchae
Mordwilkoja vagabunda
Pemphigus populicaulis
Thecabius populiconduplifolius
- Populus deltoides (balsamifera)** Balsam Poplar
Chaitophorus populicola
- Populus grandidentata** Big-toothed Poplar
Chaitophorus populicola
- Populus heterophylla** Swamp Poplar
Aphis maculatae
 ?*Chaitophorus stevensis*
- Populus tremuloides** Aspen
Chaitophorus populicola
Chaitophorus populifoliae

- **Portulaca oleracea** Common Purselane
Aphis craccivora
Aphis fabae
Aphis gossypii
Myzus persicae
- Potato see **Solanum tuberosum**
- *Potentilla monspeliensis** Cinquefoil
Macrosiphum euphorbiae
- Pot Marigold see **Tagetes**
- Prenanthes (Nabalus) trifoliata** Lion's Foot
Dactynotus ambrosiac
- Primrose see **Primula**
- Primula japonica** Japanese Primrose
Myzus sp.
- Privet see **Ligustrum**
- Prune see **Prunus**
- Prunus avium** Sweet Cherry
Myzus cerasi
Myzus persicae
- Prunus cerasus** Sour Cherry
Myzus cerasi
Myzus persicae
- Prunus domestica** Plum, Prune
Myzus persicae
- Prunus hortulana** Hortulana Plum
Hyalopterus pruni
- *Prunus maritima** Beach Plum
Hyalopterus pruni
Myzus persicae
- Prunus persica** Peach
Myzus persicae
- *Prunus salicina** Burbank Plum
Aphis sp.
- Prunus seiboldii** Seibold Cherry
Myzus persicae
- Prunus serotina** Black Cherry
Aphis feminea
Myzus persicae
- Prunus yedoensis** Yoshima Cherry
Myzus persicae
- *Pteridium aquilinum** Brake (Fern)
Macrosiphum ptericolens
- Pteridium aquilinum latiusculum** Eastern Brake
Macrosiphum ptericolens
- Pteretis pennsylvania** Ostrich Fern
Amphorophora laingi
Macrosiphum ptericolens
- Pumpkin see **Cucurbita pepo**
- Purselane see **Portulaca**
- Pussytoes see **Antennaria**
- **Pyracantha coccinea** Scarlet Firethorn
Aphis spiraeicola
Myzus persicae
- **Pyrola eliptica** Wild Lily-of-the-Valley
Macrosiphum pechumani
- Pyrus communis** Pear
?Aphis pomi
Aphis spiraeicola
- Quackgrass see **Agropyron**
- Queen Anne's Lace see **Daucus carota**
- Quercus alba** White Oak
Myzocallis sp.
Myzocallis discolor
Myzocallis punctata
- Quercus bicolor** Swamp White Oak
Myzocallis discolor
Stegophylla sp.
- Quercus (rubra) borealis** Northern Red Oak
Myzocallis sp.
Myzocallis melanocera
Myzocallis walshii complex
- Quercus illicifolia** Scrub Oak
Myzocallis punctata
- *Quercus montana** Chestnut Oak
Neosymydobius n.sp.
- Quercus palustris** Pin Oak
Myzocallis sp.
Myzocallis frisoni
Myzocallis exultans
Myzocallis punctata
Myzocallis walshii

Quercus prinus Swamp Chestnut Oak <i>Myzocallis punctata</i>		*Robinia hispida Rosacacia Locust <i>Aphis craccivora</i>	
Quercus stellata Post Oak <i>Myzocallis punctata</i>		Robinia pseudoacacia Black Locust <i>Aphis craccivora</i>	
Quercus velutina Black Oak <i>Myzocallis bella</i> <i>Myzocallis punctata</i> <i>Myzocallis walshii</i>		Robinia viscosa Clanmy Locust <i>Aphis craccivora</i>	
Quickweed	see Galinsoga	Robin's Plantain	see Erigeron
Quince	see Cydonia	Rosa sp. Rose <i>Macrosiphum rosae</i>	
Radish	see Raphanus	Rosa sp. Hybrid Tea <i>Macrosiphum rosae</i>	
Ragweed	see Ambrosia	*Rosa carolina Carolina Rose <i>Acyrtosiphon porosum</i> <i>?Chaetosiphon fragaefolii</i> <i>Macrosiphum rosae</i> <i>?Myzaphis rosarum</i>	
Raphanus raphanistrum Radish <i>Brevicoryne brassicae</i> <i>Hyadaphis pseudobrassicae</i> <i>Myzus persicae</i>		*Rosa eglanteria (rubiginosa) Sweetbriar Rose <i>Macrosiphum rosae</i>	
Raspberry	see Rubus	Rosa hugonis Father Hugo Rose <i>Macrosiphum rosae</i>	
Red Cedar	see Juniperus virginiana	*Rosa rugosa Rugosa Rose <i>Macrosiphum rosae</i>	
Redpepper or Pepper	see Capsicum	*Rosa virginiana Virginia Rose <i>Macrosiphum rosae</i>	
Red Puccoon	see Sanguinaria	*Rosa wichuriana Memorial Rose <i>Macrosiphum rosae</i>	
Reed	see Phragmites	Rosary Pea	see Ajuga
Rheum rhaponticum Rhubarb <i>Aphis fabae</i> <i>Dactynotus</i> sp.		Rosemallow	see Hibiscus palustris
Rhode Island Bent	see Agrostis	Rose-of-Sharon	see Hibiscus syriacus
*Rhododendron nudiflorum <i>Masonaphis (M.) rhokalaza</i>		Royal Fern	see Osmunda
Rhubarb	see Rheum	Rubus sp. Wild Raspberry <i>?Amphorophora agathonica</i> <i>Amphorophora sensoriata</i> <i>Masonaphis rubicola</i> <i>Placoaphis siphunculata</i>	
*Rhus sp. Japanese Sumach, cult <i>Sitomyzus rhois</i>		*Rubus allegheniensis Alleghany Blackberry <i>Aphis rubifolii</i> <i>Placoaphis siphunculata</i>	
Rhus glabra Smooth Sumac <i>Sitomyzus rhois</i>			
Rhus toxicodendron Poison Ivy <i>Glubromyzus howardii</i>			
Rhus typhina Staghorn Sumac <i>Sitomyzus rhois</i>			
Ribes sativum Common Red Currant <i>Cryptomyzus ribis</i>			

- Rubus (argutus) ostryifolius** Highbush Blackberry
Aphis rubifolii
Placoaphis siphunculata
- *Rubus canadensis** Thornless Blackberry
Aphis rubifolii
- Rubus frondosus** Yankee Blackberry
Acyrtosiphon solani
Aphis rubifolii
Aphis spiraeicola
Masonaphis rubicola
- Rubus idaeus var. strigosus** American Red Raspberry
Amphorophora agathonica
Masonaphis rubicola
- Rubus laciniatus** Cutleaf Blackberry
Aphis rubifolii
- *Rubus loganbaccus** Boysenberry
Aphis rubifolii
- Rubus occidentalis** Blackcap Raspberry
Amphorophora agathonica
- *Rubus odoratus** Purple Flowering Thimbleberry
Amphorophora agathonica
- Rubus phoenicolasius** Wineberry
Amphorophora agathonica
- Rudbeckia sp.**
Dactynotus ambrosiae complex
- Rudbeckia, hybrid**
Dactynotus leonardi
- Rudbeckia (serotina) hirta** Blackeyed Susan
Dactynotus ambrosiae
Dactynotus ambrosiae complex
Dactynotus leonardi
Dactynotus rudbeckiae
- Rudbeckia laciniata** Goldenglow
Dactynotus nigrotuberculatus
- Rumex crispus** Curled Dock
Aphis rumicis
- Rumex obtusifolius** Broad-leaved Dock
Aphis rumicis
- Rumex verticillatus** Swamp Dock
Aphis rumicis
- Russian Olive see **Elaeagnus**
- Rutabaga see **Brassica napobrassica**
- Rye see **Secale**
- **Sagittaria latifolia** Common Arrowhead
Rhopalosiphum nymphacae
- Salix sp.** Willow
Aphis saliceti
Cavariella acgopodii
Cavariella salicis Monell
Chaitophorus nigrac
Chaitophorus viminalis
Lachnus salignus
Macrosiphum californicum
Pterocomma smithiae
- Salix alba** White Willow
Chaitophorus viminalis
Cavariella salicis Monell
- *Salix alba var. tristis** Weeping Golden Willow
Cavariella sp.
Pterocomma smithiae
- Salix babylonica** Weeping Willow
Chaitophorus viminalis
- Salix caprea** Goat Willow
Macrosiphum californicum
- Salix discolor** Pussy Willow
Aphis saliceti
Lachnus salignus
Macrosiphum californicum
- Salix humilis** Prairie Willow
Macrosiphum californicum
- Salix matsudana var. tortuosa** Corkscrew Willow
Pterocomma smithiae
- Salix nigra** Black Willow
Chaitophorus sp.
Chaitophorus viminalis
Lachnus salignus
Macrosiphum californicum
- **Salpiglossus gloxiniaeflora**
Acyrtosiphon solani

- **Salvia farinacea** Mealycup Salvia Sensitive Plant, Wild see **Cassia**
Macrosiphum euphorbiae
- *Salvia officinalis** Garden Salvia ***Setaria faberii** Foxtail
Aphis fabae *Rhopalosiphum maidis*
- *Salvia splendens** Scarlet Salvia ***Setaria italica**
Macrosiphum euphorbiae *Rhopalosiphum maidis*
- Sambucus canadensis** American Elder Shadbush see **Amelanchier**
Aphis sambucifoliae Shepard's Purse see **Capsella**
- *Sambucus nigra** European Elder Shirley Poppy see **Papaver rhoeas**
Aphis sambucifoliae Shootingstar see **Dodecatheon**
- **Sanguinaria canadensis** Bloodroot or Red Puccoon ****Shortia galacifolia** Oconeebells
Macrosiphum sanguinarium ? *Amphorophora laingi*
- *Sanicula marilandica** Black Sanicula **Sisymbrium officinale** Hedge Mustard
Aphis sp. *Aphis* sp.
- Savoy Cabbage see **Brassica** **Sium (cicutifolium) suave**
Aphis fabae Water Hemlock
Cavariella sp.
Hyadaphis foeniculi
- **Saxifraga philadelphicum** *Aphis gossypii*
- Scarlet Pimpernel see **Anagallis**
- Scarlet Runner see **Phaseolus coccineus**
- Scutellaria** sp. *Aphis gossypii*
- **Scutellaria latiflora** Mad-dog Skullcap
Pseudasiphonaphis corni
- Sea Myrtle see **Baccharis**
- Secale cereale** Rye
- Macrosiphum avenae*
- Sedum telephium** Liveforever
Aphis sedi
- *Senecio aureus** Golden Groundsel
Aphis gossypii
- Senecio cruentus** Common Cineraria
Myzus persicae
- Senecio vulgaris** Common Groundsel
Acyrthosiphon solani
Dactynotus ambrosiae complex
Macrosiphum euphorbiae
- Sensitive Fern see **Onoclea**
- *Smilacina racemosa** False Solomon's Seal or Spikenard
Macrosiphum pechumani
- *Smilax glauca** Cat Greenbrier
Neoprociophilus acerifolii
- Smilax herbacea** Carrion Flower
Neoprociophilus acerifolii
- Snowball Tree see **Viburnum**
- Solanum dulcamara** Bitter Nightshade
Myzus persicae
- Solanum melogena** Eggplant
Myzus persicae
- Solanum tuberosum** Potato
Macrosiphum euphorbiae
Myzus persicae
- Solidago** sp. Goldenrod
Dactynotus caligatus
Dactynotus nigrotuberculatus
Dactynotus tissoti

- Solidago altissima** Tall Goldenrod
Dactynotus nigrotuberculatus
Dactynotus tissoti
- Solidago arguta**
Dactynotus nigrotuberculatus
- Solidago aspera**
Dactynotus tissoti
- ***Solidago bicolor**
 Silverrod or White Goldenrod
Dactynotus tissoti
- Solidago caesia** Bluestem Goldenrod
Dactynotus sp.
Dactynotus tissoti
- Solidago canadensis**
Dactynotus sp.
Dactynotus nigrotuberculatus
- Solidago (serotina) gigantea**
 Giant Goldenrod
Dactynotus nigrotuberculatus
- Solidago (serotina) gigantea leiophylla**
 November Goldenrod
Dactynotus nigrotuberculatus
Dactynotus tissoti
- Solidago graminifolia**
Dactynotus sp.
- Solidago juncea**
Dactynotus gravicornis
Dactynotus lanceolatus
Dactynotus nigrotuberculatus
Dactynotus tissoti
- Solidago nemoralis**
 Dyersweed Goldenrod
Dactynotus tissoti
- Solidago odora**
 ?*Cachryphora serotinae*
Dactynotus sp.
Dactynotus caligatus
Dactynotus nigrotibius
Dactynotus nigrotuberculatus
Dactynotus tissoti
- Solidago rugosa**
Cachryphora serotinae
Dactynotus sp.
Dactynotus ambrosiae
Dactynotus lanceolatus
Dactynotus nigrotuberculatus
Dactynotus tissoti
- Solidago sempervirens**
 Seaside Goldenrod
Dactynotus ambrosiae complex
Dactynotus erigeronensis
Dactynotus nigrotuberculatus
Dactynotus tissoti
- ***Solidago speciosa** Noble Goldenrod
Dactynotus ambrosiae
- ***Solidago ulmifolia**
Dactynotus nigrotuberculatus
Dactynotus tissoti
- Solomon's Seal see **Polygonatum**
- Sonchus arvensis** Sowthistle
Aphis fabae
Dactynotus sonchi
Nasonovia lactucae
- Sonchus asper** Spiny Sowthistle
Dactynotus sonchi
Macrosiphum sp.
Nasonovia lactucae
- Sonchus oleraceus** Common Sowthistle
Dactynotus sonchi
- Sorbus americana**
 American Mountain Ash
Aphis pomi
- Sorbus aucuparia**
 European Mountain Ash
Aphis pomi
Aphis spiraeicola
- Sorghum vulgare**
Hyadaphis pseudobrassicae
Rhopalosiphum maidis
- Sowthistle see **Sonchus**
- Spearmint see **Mentha spicata**
- ****Spergularia marina**
Myzus sp.
- Spiderflower see **Cleome**
- Spinach see **Spinacia**
- Spinacia oleracea** Spinach
Myzus persicae
- Spindletree see **Euonymus**
- Spruce see **Picea**

- ***Spiraea alba** Sumac see **Rhus**
Aphis spiraeicola
- Spiraea bumalda** var. **Anthony Waterer** Summer Cypress see **Kochia**
 ?*Aphis fabae*
Aphis spiraeicola Sundrops see **Oenothera**
 Sunflower see **Helianthus**
- Spiraea japonica** Japanese Spiraea Sweetfern see **Comptonia**
Aphis spiraeicola Sweetflag see **Acorus**
- Spiraea latifolia** Sweet Gale see **Myrica gale**
 Broadleaved Meadowsweet
Aphis spiraeicola Sweet Jarvil see **Osmorhiza**
Masonaphis (E.) spiraeicola Sweet Pea see **Lathyrus**
- Spiraea prunifolia** Bridlewreath Sycamore see **Platanus**
Aphis spiraeicola
- ***Spiraea prunifolia** var. **plena** ***Tagetes tenuifolia** Striped Marigold
Aphis spiraeicola *Myzus persicae*
- ***Spiraea splendens** **Tanacetum vulgare** Tansy
Aphis spiraeicola *Macrosiphoniella* sp.
Macrosiphoniella tanacetaria
- ***Spiraea thunbergii** *Macrosiphum* sp.
Aphis spiraeicola
- Spiraea vanhouttei** Tansy see **Tanacetum**
Aphis spiraeicola
- ****Spiranthes cernua** ***Taraxacum** sp. Dandelion
 Common Ladies'-Tresses *Dactynotus ambrosiae* complex
Acyrtosiphon solani
- ***Spiranthes grayii** ***Taraxacum (erythrospermum) laevigatum** Smooth Dandelion
Rhopalosiphum nymphaeae *Dactynotus* sp.
- Squash **Cucurbita maxima** **Taraxacum officinale** Common Dandelion
 Star Thistle see **Centaurea** *Kakimia* sp.
Prociphilus erigeronensis
Trama rara
- Steironema (Lysimachia) ciliatum** Tasselflower see **Emilia**
 Fringed Loosestribe *Myzus persicae*
- Aphis* sp. ****Taxus baccata** English Yew
Cinara sp.
- ***Stellaria jamesiana** ****Teuchrium (littorale) canadense** American Germauder
Aphis fabae *Myzus persicae*
- Stellaria media** Common Chickweed **Thalictrum dioicum** Early Meadowrue
Myzus persicae *Kakimia purpurascens*
- Stock see **Matthiola**
- Strawberry see **Fragaria**
- Strawflower see **Helichrysum**
- Sugarbeet see **Beta** **Thalictrum revolutum** Purple Meadowrue
 ?*Aphis fabae*
Kakimia purpurascens

- Thimbleberry see **Rubus ororatus**
- Thistle see **Cirsium**
- Tilia americana** American Linden
Eucallipterus tiliae
- Tilia cordata** Littleleaf Linden
Eucallipterus tiliae
- Tilia europaea** European Linden
Eucallipterus tiliae
- Tithonia (tagaetifolia) rotundifolia**
Scarlet Tithonia
Dactynotus sp.
?Dactynotus rudbeckiae
Myzus persicae
- Tomato see *Lycopersicon*
- Touch-me-not see *Impatiens*
- Treasureflower see *Gazania*
- Trifolium arvense** Rabbitsfoot Clover
Acyrtosiphon pisum
- Trifolium hybridum** Alsike Clover
Nearctaphis bakeri
- Trifolium pratense** Red Clover
Acyrtosiphon pisum
Acyrtosiphon solani
Nearctaphis bakeri
- **Trolius** sp., cult Globeflower
Myzus persicae
- Tropaeolum** sp. Nasturtium
Aphis fabae
- Tuberose see *Polianthes*
- Tulipa** sp.
Myzus persicae
- *Tulipa gesneriana**
Macrosiphum euphorbiae
- *Tulipa prismatica**
Macrosiphum euphorbiae
- Tuliptree see *Liriodendron*
- Tumbleweed Amaranth
see **Amaranthus**
- Tupelo see **Nyssa**
- Turnip see **Brassica**
- Turtlehead see **Chelone**
- Ulmus** sp. Elm
Eriosoma americanum
Eriosoma lanigerum
- Ulmus (fulva) rubra** Slippery Elm
Eriosoma americanum
Eriosoma mimica
Georgiaphis ulmi
- Urtica dioica** Stinging Nettle
Acyrtosiphon sibiricum
- Urtica (procera) gracilis**
Common Nettle
Aphis fabae
- *Vaccinium corymbosum**
Highbush Blueberry
Masonaphis (E.) pepperi
- Valeriana officinalis** Valerian
Aphis sp.
- **Venidium fastuosum**
Aphis sp.
- Veratrum viride**
American False Hellebore
Aphis sp.
- **Verbascum blattaria** Moth Mullen
Aphis craccivora
- **Verbesina encellioides**
Golden Crownbeard
Aphis fabae
- Vernonia noveboracensis**
New York Ironweed
Aphis sp.
Dactynotus ambrosia complex
- Veronica longifolia** Speedwell
Aphis sp.
- Vetch see **Vicia**
- Viburnum acerifolium**
Mapleleaf Viburnum
Aphis fabae
Neoceruraphis viburnicola

Viburnum dentatum		Water Plantain	see Alisma
Arrowwood Viburnum		Wax Myrtle	see Myrica cerifera
<i>Neoceruraphis viburnicola</i>		White Campion	see Lychnis
Viburnum opulus		White Cedar	see Chamaecyparis
European Cranberrybush or		White Sweetclover	see Melilotus
Snowball Tree		Willow	see Salix
<i>Neoceruraphis viburnicola</i>		Willowweed	see Epilobium
Viburnum recognitum	Arrow-wood	Wineberry	see Rubus phoenicolasius
<i>Neoceruraphis viburnicola</i>		Winterberry	see Ilex verticillata
Viburnum (venosum) pubescens	Downy Viburnum	** Wistaria sp.	
<i>Aphis fabae</i>		<i>Aphis craccivora</i>	
** Vicia sp.	Vetch	** Wistaria floribunda	
<i>Aphis craccivora</i>		Japanese Wistaria	
* Vicia cracca	Cow Vetch	<i>Aphis craccivora</i>	
<i>Acyrtosiphon pisum</i>		<i>Aphis fabae</i>	
<i>Aphis cracciae</i>		* Wistaria sinensis	Chinese Wistaria
* Vicia faba	Broadbean	<i>Aphis craccivora</i>	
<i>Aphis fabae</i>		Witchgrass	see Panicum
Vinca sp.	Periwinkle	Witchhazel	see Hamamelis
<i>Myzus persicae</i>		Yarrow	see Achillea
Viola arvense	Field Violet	Yew	see Taxus
<i>Acyrothosiphon solani</i>		Yucca filamentosa	
Viola tricolor var. hortensis	Pansy	Adamsneedle Yucca	
<i>Myzus persicae</i>		<i>Aphis helianthi</i>	
Violet	see Viola	Zea mays	Corn
Virginia Creeper		<i>Rhopalosiphum maidis</i>	
see Parthenocissus quinquefolia		Zea mays saccharata	Sweet Corn
Vitis sp.	Cult Grape	<i>Rhopalosiphum maidis</i>	
<i>Aphis illinoensis</i>		Zinnia elegans	Common Zinnia
* Vitis bicolor	Frost Grape	<i>Macrosiphum euphorbiae</i>	
<i>Aphis illinoensis</i>		<i>Myzus persicae</i>	
Walnut	see Juglans		
Waterhemlock	see Cicuta, Sium		

Collections have also been made from the following plants, but the aphids could not be determined. The collections were sparse; or the aphids were immature or only in one stage. A few were accidentals, although most of them were seen feeding and multiplying. These plants would bear watching in the future; they have not been included in the totals given in the introduction.

***Aralia spinosa*, ***Asarum canadensis* (wild ginger), **Asclepias quadrifolia* (four-leafed milkweed), ***Athyrium filix-femina* (lady fern), **Chelone obliqua* (pink

turtle head), **Chenopodium capitatum* (strawberry blight), *Cornus stolonifera* (red osier dogwood), ***Corydalis sempervirens* (pink fume-root), ***Cystopteris bulbifera* (bladder fern), ***Dicentra eximiana* (bleeding heart), *Dipsacus sylvestris* (teasel), **Erigeron prevaricata*, ***Hepatica americana*, *Hypericum* sp., **Oxalis europea*, *Polygonum aviculare* (knot-weed), ***Polystichum Braunii* (Braun's holly fern), ***Pentstemon digitalis*, *Rumex acetosella* (sheep sorrel), *Sium* sp., **Thalictrum venulosum*, ***Trillium erectum* (wake robin), and **Viburnum alnifolia* (hobble bush—Thendara, Adirondacks).

Aphids were also collected from the following cultivated plants: Blueberry, camelia (outdoors), confederate violet, geranium Martha Washington, grape Interlaken seedless, *Nicotiana* sp., *Tigridia* sp. and tuberous begonia.

NOTES ON APHID INVASIONS AND EXPLOSIONS

H. LOU GIBSON, FRAS

In this issue Dr. Leonard presents the results of six years of painstaking work in classifying aphids sent to him, preparing slides, arranging for determinations, and compiling collection data. The resulting list is of great value to entomologists. Our members will be interested in becoming aware of the variety of aphids in our state and in scanning some of the notations in his paper. They are urged also to add to their activities in observing nature by looking out for these intriguing insects on trips into fields and woods and even in their own gardens—I have found over 70 different species in mine.

Also I was presented by nature with a small "aphid explosion," which led me to investigate such phenomena and to offer a few observations here on the topic for the general interest of our readers. The salient feature that emerges is the amazing importance of the "balance of nature" in the very existence of the human species. For if only this inconspicuous, squishy little bug could find the conditions to support unchecked breeding, we would all perish—unless we learned to eat aphids!

Most aphids reproduce viviparously during their burgeoning season and then, toward the end of this period of rapid reproduction, they produce eggs that carry over to the next year. The male is not needed for the former phase. Some aphids can produce four live young per day. To arrive at a reasonable figure for illustrating the fecundity of a single aphid, assume that it produces 150 young at the rate of 10 per generation, for 15 generations in one season. I have calculated that if a single rose aphid, multiplying in this fashion, had nothing to interfere with the proliferation of its progeny, its family would total about 3,400,000,000,000,000 at the end of the season. And that is a stupendous mass of waving antennae, legs, and cornicles all bent on sapping the vital juices from our plants.

A fuller appreciation of such a pestilence is gained when it is realized that if this clan could march off into space, stylus to caudum, 65 abreast, the vanguard of the column would reach the sun before the rear guard left the earth. (Most rose growers would bid them God speed.) Huxley once made a similar calculation and found that the weight of an assumed surviving progeny would equal that of the whole human population of China. In other words, one aphid could do in one year what the Chinese have taken almost a million years to accomplish.

Think then of the consequences to agriculturists, were it not for controls of such hordes. To cite an example: In the early part of the growing season, as many as a billion spotted alfalfa aphids per acre were counted in

one region. To put it mildly, this was a disastrous infestation. Controls limit such occurrences. Yet this aphid, apparently introduced from the Mediterranean area to New Mexico in 1954, immediately rampaged across our farms. It spread into 30 states within two years. In 1956 alone it did \$46 million damage.

Its saliva is slightly toxic to the plants; this and the sapping of plant juices hinder the growth. Harvesting the stunted plants is complicated by sticky honeydew all over the stems. (Aphids are tiny living filters; in order to extract sufficient protein from the juices they have to imbibe large quantities; the excess, unused, sugar is excreted.) Honeydew on infested alfalfa can become so thick as to clog harvesting machinery and complicate drying of the hay. In addition, a sooty mold fungus often grows over the plants and thus spoils what little fodder is left standing.

Control measures for the alfalfa aphid are typical of those adopted in the unestimably valuable work of the economic entomologist in subduing other aphids and other insect pests. The "balance of nature" plays an important role. Ladybird beetles are the heroes in combatting aphids. There are many other natural enemies. This balance can be tipped in our favor by seeking natural enemies in the areas where the aphids originated. For example, Mediterranean parasitic wasps have been imported by the U. S. Agricultural Research Service. Colonies are reared in several institutions and released when and where needed. Selective fungi, that infect only the pest, provide another avenue of control.

Weather conditions see-saw between favoring the pest and the natural control. All such balances have existed in the natural state, allowing no species to dominate the earth. With the coming of *Homo sapiens*, however, a new situation arises. Obviously, 3½ billion men cannot go on digging for grubs and roots and eating berries. Organized agriculture is mandatory. However, the first time a man dug a hole in the ground with a stick to plant a seed, the balance of nature was upset. With his gardens and fields his progeny often creates a paradise for the uninhibited proliferation of pests. The planting of vast and healthy alfalfa fields in our southwest are a case in point—the aphids "never had it so good". Inevitably they multiplied and prospered. There seems to be no evidence to suggest this alfalfa aphid was a mutant adapting itself to a new plant; it appears to have been merely opportunistic.

The entomologist has to stand as the balancer on the see-saw of rising and falling infestations. Along with natural controls, which cannot be completely effective, he often has to bias the rising side with the judicious application of additional chemical controls. There are terrific complexities and responsibilities involved. For alfalfa, the right agent and propitious timing have to be adopted in order not to kill predators faster than aphids.

The compounds must not make the alfalfa or the soil unfit. The entomologist can also cooperate with the botanist in producing strains of alfalfa resistant to aphids—unsuitable for the pests but still useful for livestock. Such measures have stemmed this threatening tide of alfalfa aphids. Yet, constant vigilance is required for minimizing the possibility of their resurgence.

There have been similar invasions of other aphids. Several decades ago the green peach aphid became addicted to tobacco. This is quite intriguing in view of the fact that tobacco infusions were once used as an insecticide against aphids. There is some evidence that a new race had developed. Small numbers were collected every year or so in our tobacco-growing states. Again, the aphids had moved into a paradise of lush pastures; however, in this instance, it was almost 40 years before their new lands were flowing with honeydew. The first damage of economic importance did not occur until 1946. The following year, serious outbreaks were reported from the Gulf to Canada and they reached epidemic proportions in the south. In 1948, there was a general epidemic. Many controlling factors have now curbed infestations. Nevertheless, the aphid has necessitated vigilance ever since. So far, the great buildups of the epidemic years have not recurred.

There are, of course, several other species of aphids of economic importance. The frequency of their occurrences has increased with the expansion of their preferred planted acreages. Usually, the invasions have been more gradual than the spectacularly sudden onsets of the alfalfa and peach aphids just discussed. Nevertheless, various aphid population fluctuations can sometimes rise to disastrous proportions.

In 1942, the greenbug destroyed 61 million bushels of grain in Texas and Oklahoma. During 1950 in the latter state, the pests kept 138 crop-dusting planes from 56 companies and 44 licensed ground units busy. And in spite of an expense of 1.3 million dollars, about 22 percent of the wheat planting, 19 percent of the oats, and 37 percent of the barley had to be abandoned. The acreage harvested gave low yields. Losses, in millions of bushels, for wheat, oats, and barley were, respectively about 22, 2, and 0.8. The dollar loss for wheat alone was well over 42 million. The aphid continues to be a formidable threat in grain growing states.

In New York aphids are perennial pests, particularly on apple, cabbage, and potato. The rosy apple aphid can make as much as 90 percent of a crop unusable in a localized epidemic. Cabbage fields often have to be plowed under because of the damage caused by cabbage aphids. The potato aphid, and sometimes the buckthorn aphid, ruin vast quantities of potatoes. To their own depredations they add the spreading of potato diseases.

The most noteworthy warning in New York of the devastation threatened by uncontrolled aphid invasions, is the forced abandonment of hops as a

commercial crop in our state. Around 1860, the hop aphid, whose limited existence had been well observed, suddenly exploded into our hop fields. Natural controls did not check the hordes and other control methods were not very far advanced at that time. By the turn of the century, the large-scale growing of hops had become hopeless here and the crop had been transferred to Pacific Northwest.

Up to this juncture, we have been considering widespread invasions of aphids that flow across our crops like high tides. Another intriguing aspect of aphid vitality is the occurrence of the more localized explosions; these can be looked upon as tidal waves. Fortunately, most of them seem to be automatically self-limited or reduced by known and unknown factors. Such tidal waves can occur in localized farm regions. For example, during 1965 in Illinois, the corn leaf aphid surged over 55,000 acres, doing enormous damage. It is this type of buildup, however, that most often comes to the attention of urbanites, who, unlike farmers and entomologists, are not perennially faced with serious aphid problems.

There are numerous newspaper accounts of small groups of city shade trees suddenly raining honeydew. Streets become slippery, and cars are "tarred and feathered" with falling leaves glued on by hardening honeydew. The difficulties, dilemmas, and narrow margins in aphid control have been emphasized by some of these reports. Sprayed trees are often more heavily affected than untreated ones. Obviously spraying for other pests has been done at just the right time to reduce aphid predators.

Aphid flights of almost sky-darkening proportions frequently occur. In December, 1963, the people of several counties in Alabama became quite alarmed by gusts of flying pine aphids, just ahead of a weather front. Telephone, radio, and television systems were flooded by accounts of the invasion. The giant willow aphid often builds up huge flights. When windows are not closed in time, an unusual form of aphid damage occurs—carpets are ruined by trodden insects.

A few species of aphids feeding on maple stage annual flights as a more normal, regular event. Nevertheless, there are fluctuations in the number of aphids taking part. The early fall flights of *Drepanaphis utahensis* are regular, but in 1961 unusually abundant hordes of them were reported from the Logan Canyon region in Utah. Huge rafts of downed aphids were floating along the river. The only people affected adversely were the fishermen. The fish were so bountifully regaled with live food that catching them on an artificial lure was as hopeless as enticing a cow out of a clover field with a handful of dried hay.

Over the weekend of August 4, 1963, tens of thousands of winged painted maple aphids were blown into my garden. Obviously they occur somewhere in the area, but I have never collected aphids from any nearby maples

—with one exception, to be discussed below. Apparently, conditions for widespread proliferation have not recently been present.

In 1965, a highly localized explosion of the Norway maple aphid occurred in the yard of my next-door neighbor. His sugar maple was entirely infested. Honeydew dripped profusely from the tree and thousands of green leaves dropped. Aphids had not been observed on the tree before, and on that occasion, the Norway maples nearby showed no trace of aphids. Aphids have not appeared since on those trees nor on his previously infected tree. It is interesting to speculate on the reason. In 1964, a sudden blight killed a cherry tree that touched the sugar maple; the former was immediately cut down. Could the rotting root system of the cherry tree have provided abundant humus for the maple and thus made the sap of the latter more attractive to aphids? One of the effects of increased humus would probably be that of decreasing the nitrogen content of the leaves.

Along these lines, a most intriguing aphid explosion was reported in 1967 from the Brookhaven National Laboratory at Upton, New York. Experimental gamma radiation damage was produced in two white oak groves near the laboratory. In 1963, the eastern dusky-winged oak aphid increased to several hundred times its normal population density. No parallel explosion could be found, upon exhaustive search, anywhere in central Long Island. Also, the aphid density was definitely correlatable to the degree of radiation damage to the oaks. The radiation produced changes in the sap composition that favored aphid growth; one change detected was a reduction in nitrogen content. But probably the most puzzling aspect is that similarly damaged oaks were not similarly affected by these aphids in 1961, 1964, or 1965.

One more, extremely localized population explosion is worthy of speculation. The new aphid, *Macrosiphum pechumani* MacGillivray (see page 312) was collected by Dr. L. L. Pechuman in September, 1960 and 1964, on *Smilacena racemosa* and in October, 1965 on lily of the valley; and by me in 1963 on cultivated hibiscus and wild strawberry, in 1964 on lily of the valley, and in 1965 on *Pryola elliptica*. This aphid is so strikingly different from other *Macrosiphum* that it is difficult to understand why it had escaped notice until 1960—unless it is a mutant. The occurrences listed were of moderate numbers of aphids, except my 1964 invasion. Then, in a lily-of-the-valley bed, $1\frac{1}{4} \times 12$ feet, a million aphids were found thriving. (From sample counts and estimation.) The bed has been there for 30 years; it is fertilized and cleaned up in the same way each year. Yet, in 1964 only, it became a favored pasture for these aphids. There have been no aphids on these plants, before nor since. Another newly discovered aphid, *Dactynotus leonardi* Olive, has behaved in a somewhat similar fashion. It was first collected in 1926 by Dr. Griswold. It has been observed several times since then, but always in small numbers. But in 1962, Mr.

John T. Katsanos reported an unusually heavy infestation throughout a single Massachusetts meadow grown up to *Rudbeckia*.

It is apparent that the individually insignificant members of the aphid family can collectively emerge as presenting many mysteries and challenges. When these tiny atoms of Insecta gather for a chain reaction, the explosions pose potentially devastating threats.

I am extremely grateful to Dr. Leonard for giving me access to his notes and reprints for the preparation of this essay.

CITATIONS IN THE ROCHESTER ACADEMY
OF SCIENCE

1967

HOWARD S. MILLER

Fellow

The word amateur seems to have lost its connotation of one whose accomplishments are prompted by love rather than by profit. But returning to the former meaning, it can be said that this candidate is an amateur who has truly achieved the status of a professional scientist. Since 1921, when he first became absorbed in ornithology, he has accumulated a treasure of bird data that would be hard to equal.

A native of Rochester, his interest in biology began at East High School. He is part of the J. Hungerford Smith Company here in Rochester. It is natural then that he is best acquainted with the birds of our area. Nevertheless, he has observed in Florida, Long Island, Massachusetts, New Jersey, and Virginia.

He is an expert on bird calls and songs and has amazing ability to identify distant birds without binoculars. Characteristic silhouettes, flight patterns, and intangible elements activate those special human computer elements that form hunches. He does use binoculars for verification. Yet his sight is so keen that the eagles are worried.

Although scientist enough to insist upon positive details on rare birds and those out of season, he also is diplomat enough to instill respect for such carefulness in his comparisons. The measure of any man is his ability to influence others. Our candidate is an informal teacher. Numberless field trips with Scout and older groups have given him the opportunity to stimulate interest.

In the Genesee Ornithologic Society, of which he is a charter member, and for our Academy, he was statistical chairman for many years. His committee produces monthly lists of noteworthy birds for the Goshawk. He has written numerous articles for this journal, on field identification and occurrence. As Regional Editor for the Kingbird, he has been responsible for reports and compilations from the Rochester area. He has long been Contributing Editor to the Audubon Field Notes.

For giving us insight into the true meaning of amateur, and for inspiring many new ones, we warmly extend to him our Fellowship.

NEIL S. MOON

Fellow

A photographic chemist who is a keen amateur ornithologist, mycologist, pteridologist, geologist, mineralogist, botanist, photographer, and skier, needs one more hobby to get full benefit from his many interests—mountain climbing. Our candidate is such an enthusiast.

With origin in West Virginia, graduation from Pennsylvania State University and a doctorate from the University of Illinois in organic chemistry, he came to the Eastman Kodak Company in 1939. He is now an Assistant Superintendent in the Synthetic Chemicals Division. He holds membership in many honor and professional societies.

He has lectured on birds and plants and has been instructor on field courses and trips, including those of the Rochester Museum of Arts and Sciences and the Alleghany Nature Pilgrimage. His efforts impinge on our Academy through his scholarly approach to his hobbies, particularly ornithology. He is completing his term as President of the Genesee Ornithological Society, and has served on many committees, among them, the one collecting data for the forthcoming New York State bird book sponsored by the Federation of New York State Bird Clubs.

With such varied interests, he will serve our members well now that he is about to take up the presidency.

Just as he has reached the peak in our Academy, he has roamed all the chief mountains in New York and New Hampshire. He has met the challenge of Mount Whitney and climbed in Switzerland and Italy. He brings a similar lofty and broad outlook to his new office.

For demonstrating that a capable scientist can achieve the status of amateur, we are happy to confer on him our honor of Fellow.

HENRY E. PAUL

Fellow

Our next candidate observes the universe in two directions. As a biochemist, he uses the microscope to study the effects upon bacteria of medicinal agents he produces. And in his avocation of astronomy, he uses the telescope to scan our environment in space.

As Assistant to the Research Vice-President of the Norwich Pharmaceutical Company, he is involved in developing new drugs, like Furadantin. Coming East from Los Angeles, he studied at Cornell University and was granted his Ph.D. there in 1938, majoring in nutrition and biochemistry.

He has lectured at the Sorbonne on the nitrofurans as chemotherapeutic agents, and he often speaks to student and service groups on medical topics.

He is a member of the Astronomy Section of our Academy. Here, he has been active as a lecturer on telescopes and optical instruments, and their history. His collection of antique telescopes, including some 200 years old, would be difficult to equal. In addition to constructing telescopes, he built five Lyot quartz monochromator filters—exacting optics for studying the sun in a narrow wavelength band.

He contributed several authoritative and practical chapters in the Amateur Telescope Making series, and has written three books on such topics, including photography in outer space. He is in popular demand for consultation and demonstration of sky phenomena—such as Venus masquerading as a flying saucer, or a request to visit him in order to view the mountains on the moon during the dark phase, on a cloudy night, with 3 feet of snow and 10 below zero prevailing.

For helping to enlighten the informed and to inform the unenlightened we welcome him as a Fellow.

UDELL B. STONE

Fellow

The waters of our Earth provide the domain for the professional interests of our next candidate, and the rocks supply the materials for his creative avocation. As District Fisheries Manager for the New York State Conservation Department, he directs activities in studying the distribution, growth, and age of many sport fish, as well as statistical surveys for commercial fishing. Experimental work on the occurrence and control of lamprey infestation is under his supervision. His group makes many recommendations for stream improvement, environmental control, stocking, and legislation.

Born in Spencerport, his studies at the University of Rochester and doctoral work in vertebrate ecology at Cornell University prepared him for his profession in aquatic biology. He is active in ichthyological, limnological, and fisheries societies. He has done valuable research and writing on the life histories of fresh-water fishes.

His chief interest in our Academy has been in the Minera Section. He has been Vice-President and served untiringly in other capacities. He is a Fellow of the Rochester Museum of Arts and Sciences and is Past Chairman of the Rochester Lapidary Society. Artistic talents first found

outlet in painting and photography. Now, to the enjoyment of collecting gem stones he has added the satisfaction of cutting and polishing them.

For his capableness in professional and hobby activities and his willingness to work for the general good and share his knowledge with others, we are proud to bestow our Fellowship upon him.

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