

SCALE INSECTS (HOMOPTERA: COCCINEA) FROM IMPORT INTERCEPTIONS AND GREENHOUSES IN THE NETHERLANDS

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ABSTRACT

A list is given of the species of Coccinea which have been intercepted on plants imported into the Netherlands during the period 1950-1994, together with data on host plants on which the coccid was intercepted, country of origin and year of first interception. A list and data are given on the scale insects that occur in greenhouses in the Netherlands.

KEYWORDS: Coccinea, Netherlands, import interceptions, greenhouses.

The contributions of Reyne (1957, 1963, 1965) were the first comprehensive papers dealing with Coccinea in the Netherlands and were confined to native species.

Numerous species were found during quarantine inspections and in greenhouses, and have been recorded in annual reports of the Dutch Plant Protection Service from 1950 until now, but no checklist was published. The experience and practice acquired in these inspections enabled Burger and Ulenberg (1990) to discuss import and quarantine procedures in general. The information given in this paper (Tables 1 and 2) is based on the slide collection of the Plant Protection Service. The greatest part of the material was identified by the late H. Burger. The information pertaining to the last three years is from the author.

During the period 1950-1994 76 species were found living in greenhouses. The last six years, additional 24 species were added to the list, probably due to an increase in international trade. One of them, *Pulvinaria floccifera* (Westwood) was already recorded from greenhouses (Reyne, 1957) but never intercepted afterwards. It is a common outdoor species and its first record in a greenhouse was on *Vaccinium vitis-idaea*, which is also native to the Netherlands. Although the climate of greenhouses generally resembles that of tropical or subtropical regions, differences between commercial and 'noncommercial' greenhouses may contribute to faunistic differences. Commercial greenhouses are used for production purposes by growers and propagators which obtain plants from trading firms. Very often the plants are maintained for a limited time before selling and pesticides and fertilizers are applied. On the contrary in 'noncommercial' greenhouses such as botanical and zoological gardens, the plants are imported directly from certain countries or are even originating from consignments of intercepted illegal trade or imported for scientific purposes. They are cultivated for a long time in the greenhouse and the use of pesticides and fertilizers is limited. The number of Coccinea species found in both

types of greenhouses is 54 and 34, respectively. Besides, 11 species were found in living-rooms and 6 species could not be placed into one of these categories because of lack of information. Since less attention was paid to the 'noncommercial greenhouses' the actual number of scale insect species in this type of greenhouse is expected to be higher.

During quarantine inspections 143 species were intercepted, and one of them proved to be new to science (Williams and Kozarzhevskaya, 1989).

As far as taxonomy is concerned I followed the publications of Ben-Dov (1988, 1993), Ben-Dov and Cox (1990), Borchsenius (1966), Cox (1987), Deitz and Davidson (1986), De Lotto (1967), Howard and Olivier (1985), Kosztarab (1963), Kosztarab and Kozár (1985), Kozár and Walter (1985), Liu et al. (1989), McKenzie (1961), Miller et al. (1984), Miller and McKenzie (1967), Rhoades et al. (1985), Takagi (1969, 1970), Takagi and Tippins (1972), Williams (1962, 1970, 1978, 1989), Williams and Granara de Willink (1992) and Williams and Watson (1988a, 1988b, 1990).

TABLE 1
List of scale insects (Coccinea) intercepted in the Netherlands,
with year of first interception, country of origin and hostplant

MARGARODIDAE		
<i>Eurhizococcus brasiliensis</i> Hempel	1973	Peru (<i>Camellia sinensis</i>)
<i>Icerya purchasi</i> Maskell	1978	Italy (<i>Citrus</i> , <i>Pittosporum tobira</i>)
<i>Matsucoccus feytaudi</i> Ducas	1968	France (<i>Pinus maritima</i>)
PSEUDOCOCCIDAE		
<i>Balanococcus diminutus</i> (Leonardi)	1992	France (<i>Phormium</i>)
<i>Cataenococcus larai</i> Williams	1977	Sri Lanka (<i>Cocos</i> , <i>Manihot</i>)
<i>Chaetococcus bambusae</i> (Maskell)	1993	Sri Lanka (Bamboo)
<i>Chaetococcus phragmitis</i> (Marchal)	1969	France (<i>Phragmites</i>), Hungary (<i>Phragmites</i>)
<i>Chorizococcus yuccae</i> McKenzie	1992	USA (<i>Yucca</i>)
<i>Dysmicoccus brevipes</i> (Cockerell)	1968	Indonesia (<i>Rhapis</i>), Israel (<i>Ananas</i>), Ivory Coast (<i>Ananas</i>), Taiwan (<i>Zelkova</i>), Tanzania (<i>Ananas</i> , <i>Saccharum</i>)
<i>Dysmicoccus neobrevipes</i> Beardsley	1979	Guatemala (<i>Beaucarnea</i>)
<i>Ferrisia consobrina</i> Williams and Watson	1990	Israel (<i>Kochia</i>)
<i>Ferrisia virgata</i> (Cockerell)	1990	Colombia (<i>Manihot</i>), Dominican Republic (<i>Zamia</i>)
<i>Hippeococcus wegneri</i> Reyne	1953	Indonesia (<i>Areca</i>)
<i>Hypogeococcus festerianus</i> (Lizer y Trelles)	1991	Canary Islands (<i>Trichocereus cardicans</i>)

TABLE 1 (continued)

<i>Madagasia cincinnata</i> Williams	1969	Tanzania (<i>Saccharum</i>)
<i>Phenacoccus avenae</i> Borchsenius	1970	Turkey (<i>Galanthus elwesii</i>)
<i>Phenacoccus emansor</i> Williams and Kozarzhevskaya	1982	Turkey (<i>Iris reticulata</i>)
<i>Phenacoccus herreni</i> Cox and Williams	1993	Colombia (<i>Manihot</i>)
<i>Phenacoccus madeirensis</i> Green	1993	Colombia (<i>Manihot</i>)
<i>Phenacoccus manihoti</i> Matile-Ferrero	1993	Colombia (<i>Manihot</i>)
<i>Planococcus citri</i> (Risso)	1962	China (<i>Gardenia</i>), Guatemala (<i>Jatropha podagrica</i>), Honduras (<i>Fortunella mitis</i>), Israel (<i>Clusia</i>), Turkey (<i>Galanthus elwesii</i>), Yugoslavia (<i>Campanula pyramidalis</i>)
<i>Planococcus ficus</i> (Signoret)	1984	Israel (<i>Ficus</i>)
<i>Pseudococcus affinis</i> (Maskell)	1988	Hawaii (<i>Dendrobium</i>), Sri Lanka (<i>Aglaonema</i>)
<i>Pseudococcus cryptus</i> Hempel	1985	Sri Lanka (<i>Polyscias balfouriana</i>)
<i>Pseudococcus concavocerarii</i> James	1978	Kenya (<i>Dracaena fragrans</i>)
<i>Pseudococcus longispinus</i> (Targioni Tozzetti)	1970	Australia (<i>Araucaria</i>), Brazil (<i>Cordyline</i>), Canary Islands (<i>Chamaedorea</i>), China (<i>Sageretia</i>), Costa Rica (<i>Dracaena marginata</i>), Dominican Republic (<i>Areca</i>), Ivory Coast (<i>Dracaena</i> sp., <i>Dracaena sanderiana</i>), Puerto Rico (<i>Dracaena warnecei</i>), Spain (<i>Phoenix</i>), Sri Lanka (<i>Cordyline</i>), USA (<i>Filicopsida</i>)
<i>Pseudococcus maritimus</i> (Ehrhorn)	1966	Canary Islands (<i>Strelitzia</i>), Germany (Cactaceae), Mexico (<i>Cestrum</i>)
<i>Rastrococcus iceryoides</i> (Green)	1992	Zanzibar Island (<i>Mangifera indica</i>)
<i>Rhizoecus albus</i> James	1969	Tanzania (<i>Saccharum</i>)
<i>Rhizoecus cacticans</i> (Hambleton)	1971	France (<i>Sempervivum tectorum</i>), Germany (Crassulaceae?)
<i>Rhizoecus hibisci</i> Kawai and Takagi	1989	China (<i>Serissa</i>)
<i>Saccharicoccus saccharii</i> (Cockerell)	1968	Tanzania (<i>Saccharum</i>)
<i>Spilococcus mamillariae</i> (Bouché)	1985	Canary Islands (Cactaceae), South Africa (Cactaceae)
<i>Trionymus pygmaeus</i> De Lotto	1968	Tanzania (<i>Saccharum</i>)
<i>Vryburgia trionymoides</i> De Lotto	1980	Spain (<i>Aeonium</i>)
COCCIDAE		
<i>Ceroplastes floridensis</i> Comstock	1979	Guatemala (<i>Citrus</i> , <i>Tupidanthus</i>), Honduras (<i>Schefflera</i>), Israel (<i>Citrus</i>), USA (<i>Citrus microcarpa</i> , <i>Filicium</i>)
<i>Ceroplastes rubens</i> Maskell	1978	Sri Lanka (<i>Aglaonema</i>), Taiwan (<i>Podocarpus</i>)

TABLE 1 (continued)

<i>Ceroplastes rusci</i> (Linnaeus)	1970	Canary Islands (<i>Strelitzia</i>), Spain (<i>Phoenix</i> , <i>Strelitzia</i>)
<i>Ceroplastes sinensis</i> Del Guercio	1974	Spain (<i>Citrus</i>)
<i>Coccus hesperidum</i> Linnaeus	1955	Australia (<i>Ficus</i>), Belgium (<i>Laurus nobilis</i>), Colombia (Orchidaceae), Italy (<i>Nerium</i>), South America (<i>Vriesea</i>), Spain (<i>Cocos</i>), Thailand (<i>Paphiopedilum callosum</i>)
<i>Coccus viridis</i> (Green)	1990	unknown origin (<i>Ixora coccinea</i>), Sri Lanka (<i>Ixora</i>)
<i>Eulecanium tiliae</i> (Linnaeus)	1960	France (<i>Pyrus</i>)
<i>Milviscutulus mangiferae</i> (Green)	1980	Ivory Coast (<i>Schefflera</i>), Sri Lanka (<i>Cordyline fruticosa</i> , <i>Cordyline terminalis</i>)
<i>Parasaissetia nigra</i> (Nietner)	1978	Brazil (<i>Agave</i>), unknown origin (<i>Pandanus</i>), Philippines (<i>Phyllanthus</i>)
<i>Parthenolecanium corni</i> (Bouché)	1968	Germany (<i>Tilia euchlora</i>)
<i>Pulvinaria mesembryanthemi</i> (Vallot)	1954	France (<i>Mesembryanthemum</i>), Spain (<i>Mesembryanthemum edule</i>)
<i>Pulvinaria psidii</i> Maskell	1991	Guatemala (<i>Ficus benjamina</i>)
<i>Saissetia coffeae</i> (Walker)	1957	Brazil (<i>Ardisia</i>), Canary Islands (<i>Cycas</i>), unknown origin (<i>Citrus</i>), Switzerland (<i>Nerium</i>), USA (<i>Nephrolepis</i>)
<i>Saissetia oleae</i> (Olivier)	1966	China (<i>Carmona</i> , <i>Serissa</i>), unknown origin (<i>Kalanchoe</i>), Italy (<i>Olea</i>), Spain (<i>Euonymus argenta</i> , <i>Nerium</i> , <i>Phoenix dactylifera</i> , <i>Yucca</i>), Turkey (<i>Olea</i>), USA (<i>Ficus</i>)
<i>Vinsonia stellifera</i> (Westwood)	1985	Guyana (<i>Epidendrum</i>)
CRYPTOCOCCIDAE		
<i>Pseudochermes fraxini</i> (Kaltenbach)	1955	unknown origin (<i>Fraxinus</i>)
ERIOCOCCIDAE		
<i>Eriococcus coccineus</i> Cockerell	1957	Italy (<i>Brasilocactus</i>), Japan (Cactaceae), South Africa (<i>Mammillaria</i>)
<i>Gossyparia spuria</i> (Modeer)	1958	Turkey (<i>Ulmus</i>)
<i>Ovaticoccus agavium</i> (Douglas)	1975	import (<i>Araucaria</i> , <i>Yucca</i>), India (<i>Araucaria</i>), Spain (<i>Araucaria exelsa</i> , <i>Yucca</i>)
ASTEROLECANIIDAE		
<i>Asterolecanium pustulans</i> (Cockerell)	1966	Netherlands Antilles (<i>Nerium oleander</i>), Gabon (<i>Plectrum minthus</i>), Sri Lanka (<i>Malus</i>)
<i>Bambusaspis bambusae</i> (Boisduval)	1987	China (<i>Bambusa ventricosa</i>)

TABLE 1 (continued)

DIASPIDIDAE		
<i>Abgrallaspis cyanophylli</i> (Signoret)	1952	Africa (<i>Phoenix</i>), Brazil (Cactaceae), Canary Islands (Cactaceae, <i>Hamatocactus setispinus</i>), France (Cactaceae), Honduras (<i>Phoenix</i>), unknown origin (<i>Echinocereus</i> , <i>Lithops</i> , <i>Lobivia</i>), Israel (<i>Pittosporum tobira</i>), Japan (<i>Cereus peruvianus</i>), Philippines (<i>Calathea picturata</i>), South Africa (<i>Astrophytum</i>), Spain (<i>Areca</i> , Cactaceae, <i>Strelitzia</i>), Thailand (<i>Ehretia microphylla</i>)
<i>Acutaspis agavis</i> (Townsend and Cockerell)	1990	USA (<i>Yucca</i>)
<i>Acutaspis albopicta</i> (Cockerell)	1985	Guatemala (<i>Dizigotheca elegantissima</i>)
<i>Acutaspis decorosa</i> Ferris	1984	Guatemala (<i>Tillandsia</i>)
<i>Aonidia lauri</i> (Bouché)	1971	Greece (<i>Laurus nobilis</i>), Spain (<i>Laurus</i>)
<i>Aonidiella aurantii</i> (Maskell)	1951	Egypt (<i>Citrus</i>), unknown origin (<i>Citrus</i> , <i>Citrus limonium</i>), Israel (<i>Citrus</i>), Morocco (<i>Citrus</i>), Turkey (<i>Citrus</i>), USA (<i>Cycas revoluta</i> , unknown plant)
<i>Aonidiella citrina</i> (Coquillett)	1986	Philippines (<i>Osmanthus</i>)
<i>Aonidiella orientalis</i> (Newstead)	1971	Cameroon (<i>Azadirachta indica</i>), Dominican Republic (<i>Areca</i>), Iraq (unknown plant), Jamaica (<i>Rosa</i>), Venezuela (<i>Rosa</i>)
<i>Aonidiella tinerfensis</i> (Lindinger)	1990	Canary Islands (<i>Dracaena draco</i>)
<i>Aspidiotus destructor</i> Signoret	1974	Cuba (<i>Areca</i> , <i>Chrysalidocarpus lutescens</i>), Honduras (<i>Chrysalidocarpus</i> , Palmae), Ivory Coast (<i>Pandanus</i> , <i>Philodendron laciniatum</i>), Philippines (<i>Calathea picturata</i> , Palmae), Spain (<i>Areca</i> , <i>Cocos</i> , <i>Phoenix roebelenii</i>), Sri Lanka (<i>Cocos</i> , <i>Licuala grandis</i>), Thailand (<i>Areca</i>), USA (<i>Chamaedorea</i>)
<i>Aspidiotus excisus</i> Green	1978	Costa Rica (<i>Aglaonema</i>), Honduras (<i>Aglaonema</i> , <i>Chrysalidocarpus</i> , <i>Citrus</i>)
<i>Aspidiotus nerii</i> Bouché	1951	Australia (<i>Cymbidium</i>), France (<i>Agathis</i>), unknown origin (<i>Chamaerops humilis</i> , Palmae), Israel (<i>Olea</i>), Italy (<i>Chamaerops</i> , <i>Citrus</i> , <i>Nerium</i>), Spain (<i>Cycas revoluta</i> , <i>Nerium oleander</i> , <i>Phoenix</i> , <i>Phoenix canariensis</i> , <i>Washingtonia</i> , <i>Yucca</i>), Turkey (<i>Eucalyptus</i> , unknown plant), Zimbabwe (Cactaceae)
<i>Aulacaspis tubercularis</i> Newstead	1964	South Africa (<i>Mangifera indica</i>)
<i>Aulacaspis rosae</i> (Bouché)	1964	Hungary (<i>Rosa</i>), Italy (<i>Rosa</i>), Spain (<i>Rosa</i>)
<i>Carulaspis minima</i> (Targioni Tozzetti)	1978	Italy (<i>Cupressus arizonica</i> , <i>Juniperus virginiana</i>)

TABLE I (continued)

<i>Chionaspis furfura</i> (Fitch)	1954	USA (<i>Malus</i>)
<i>Chionaspis salicis</i> (Linnaeus)	1954	Belgium (<i>Salix</i>), Germany (<i>Populus</i>)
<i>Chionaspis salicisnigrae</i> (Walsh)	1964	USA (<i>Populus</i>)
<i>Chrysomphalus aonidum</i> (Linnaeus)	1950	Costa Rica (<i>Dracaena marginata</i>), Cuba (<i>Citrus</i>), Egypt (<i>Citrus</i>), Guatemala (<i>Citrus</i>), Honduras (<i>Areca</i> , <i>Dracaena marginata</i>), unknown origin (<i>Citrus</i> , <i>Dracaena marginata</i>), Israel (<i>Citrus</i>), Lebanon (<i>Citrus</i>), Suriname (<i>Citrus maxima</i>), Taiwan (<i>Ficus</i>)
<i>Chrysomphalus bifasciculatus</i> Ferris	1988	unknown origin (<i>Ilex crenata</i>)
<i>Chrysomphalus dictyospermi</i> (Morgan)	1953	Canary Islands (<i>Citrus</i>), China (<i>Taxus</i>), Costa Rica (<i>Dracaena marginata</i>), Honduras (<i>Chrysalidocarpus</i>), import (<i>Citrus</i>), Italy (<i>Phoenix</i> , <i>Strelitzia</i>), Ivory Coast (<i>Pandanus</i>), Morocco (<i>Citrus</i>), Spain (<i>Citrus</i> , <i>Phoenix</i> , <i>Rosa</i>), Sri Lanka (<i>Pandanus sanderi</i>), USA (<i>Strelitzia</i>)
<i>Diaspidiotus caucasicus</i> (Borchsenius)	1965	Iran (<i>Populus euphratica</i>)
<i>Diaspidiotus uvae</i> (Comstock)	1958	USA (<i>Malus</i>)
<i>Diaspis barrancorum</i> Lindinger	1978	Honduras (<i>Euphorbia atropurpurea</i>)
<i>Diaspis boisduvalli</i> Signoret	1956	Belgium (<i>Cattlea</i>), France (<i>Chamaerops</i>), Gabon (<i>Tridactyle</i>), unknown origin (Palmae), Ivory Coast (<i>Ananas</i>)
<i>Diaspis bromeliae</i> (Kerner)	1954	Canada (<i>Bilbergia</i>), Germany (<i>Aechmea fasciata</i>), Iran (<i>Aechmea</i>), Ivory Coast (<i>Ananas</i>)
<i>Diaspis echinocacti</i> (Bouché)	1953	Brazil (<i>Melocactus levidestatus</i>), Canary Islands (<i>Echinocereus chloranthus</i> , <i>Echinofossulocactus</i> , <i>Ferocactus macrodiscus</i>), France (<i>Opuntia</i>), unknown origin (<i>Opuntia</i>), Italy (Cactaceae), Japan (<i>Chamaecereus sylvestris</i>), Mexico (Cactaceae)
<i>Dynaspidiotus britannicus</i> (Newstead)	1973	Spain (<i>Chamaerops</i>), Turkey (<i>Eucalyptus</i>)
<i>Epidiaspis leperii</i> (Signoret)	1950	Belgium (<i>Malus</i> , <i>Mespilus germanica</i> , <i>Prunus persica</i> , <i>Pyrus</i>), France (<i>Malus</i>)
<i>Fiorinia fioriniae</i> (Targioni Tozzetti)	1987	Brazil (<i>Camellia</i>)
<i>Fiorinia japonica</i> Kuwana	1988	China (<i>Juniperus chinensis</i>)
<i>Fiorinia theae</i> Green	1985	China (<i>Podocarpus macrophyllus</i>), Hong Kong (<i>Podocarpus</i>)
<i>Furcaspis biformis</i> (Cockerell)	1982	Sri Lanka (<i>Oncidium</i>)
<i>Furchadaspis zamiae</i> (Morgan)	1966	Italy (<i>Strelitzia</i>), Spain (<i>Cycas revoluta</i> , <i>Phoenix dactylifera</i>)
<i>Genaparlatoria pseudaspidiotus</i> (Lindinger)	1963	Indonesia (<i>Epidendrum</i> , Orchidaceae)

TABLE 1 (continued)

<i>Gymnaspis aechmeae</i> Newstaed	1954	Germany (<i>Bromelia</i>)
<i>Hemiberlesia lataniae</i> (Signoret)	1952	Argentina (<i>Cycas</i>), Belgium (<i>Hedera</i>), Canary Islands (<i>Strelitzia</i>), China (<i>Serissa foetida</i>), Cyprus (<i>Citrus</i>), Dominican Republic (<i>Yucca</i>), import (<i>Musa</i>), Israel (<i>Myrthus</i> , <i>Olea europaea</i>), Philippines (<i>Calathea picturata</i>), Rwanda (<i>Euphorbia tirucalli</i>), Spain (<i>Strelitzia</i>), Sri Lanka (<i>Cocos</i>), Taiwan (<i>Serissa foetida</i>)
<i>Hemiberlesia palmae</i> (Cockerell)	1979	Central America (<i>Arecastrum</i>), Ivory Coast (<i>Philodendron laciniatum</i>), Sri Lanka (<i>Licuala grandis</i>)
<i>Hemiberlesia rapax</i> (Comstock)	1984	France (<i>Agathis</i>), unknown origin (<i>Citrus</i>), Spain (<i>Citrus</i>), USA (<i>Citrus</i>)
<i>Howardia biclavis</i> (Comstock)	1984	Guatemala (<i>Cinchona</i>)
<i>Ischnaspis longirostris</i> (Signoret)	1976	Canary Islands (<i>Ficus benjamina</i>), Galapagos Islands (Rubiaceae)
<i>Kuwanaspis pseudoleucaspis</i> (Kuwana)	1988	Japan (<i>Sasa</i>)
<i>Lepidosaphes beckii</i> (Newman)	1952	China (<i>Murraya</i>), Cuba (<i>Citrus</i>), Egypt (<i>Citrus</i>), unknown origin (<i>Citrus</i>), Sri Lanka (<i>Croton aucubifolia</i>), Turkey (<i>Citrus</i>)
<i>Lepidosaphes conchyformis</i> (Gmelin)	1953	Italy (<i>Ulmus</i>)
<i>Lepidosaphes gloverii</i> (Packard)	1955	Cuba (<i>Citrus maxima</i>), unknown origin (<i>Citrus</i>), Spain (<i>Citrus</i>)
<i>Lepidosaphes ulmi</i> (Linnaeus)	1955	Canada (<i>Malus</i>), Italy (<i>Prunus domestica</i>), USA (<i>Fraxinus</i> , <i>Populus</i>)
<i>Lopholeucaspis cockerelli</i> (Crandpré and Charmoy)	1993	China (<i>Serissa</i>)
<i>Lopholeucaspis japonica</i> (Cockerell)	1979	Japan (<i>Acer palmatum</i> , <i>Malus halliana</i>), Taiwan (<i>Zelkova serrata</i>)
<i>Melanaspis elaeageni</i> McKenzie	1986	Costa Rica (<i>Yucca</i>), unknown origin (<i>Yucca</i>)
<i>Melanaspis smilacis</i> (Comstock)	1968	unknown origin (<i>Ananas</i>), Ivory Coast (<i>Ananas</i>), USA (<i>Ananas</i>)
<i>Metaspidiotus stauntoniae</i> (Takahashi)	1979	China (<i>Hedera</i>)
<i>Odonaspis greeni</i> (Cockerell)	1993	Sri Lanka (Bamboo)
<i>Odonaspis secreta</i> (Cockerell)	1985	Philippines (<i>Bambusa</i>), Thailand (<i>Bambusa</i>)
<i>Opuntiaspis carinata</i> (Cockerell)	1987	Central America (<i>Dasyilirion</i>)
<i>Parlatorespis pyri</i> (Marlatt)	1985	Japan (<i>Acer burgerianum</i>)
<i>Parlatoria camelliae</i> Comstock	1990	Italy (<i>Camellia japonica</i>)
<i>Parlatoria cinerea</i> Hadden	1969	Brazil (<i>Citrus</i>)
<i>Parlatoria crypta</i> McKenzie	1987	Niger (<i>Azadirachta indica</i>)
<i>Parlatoria fulleri</i> Morrison	1978	Thailand (Orchidaceae)

TABLE 1 (continued)

<i>Parlatoria oleae</i> (Colvée)	1954	France (<i>Rosa indica</i>), Greece (<i>Prunus armeniaca</i>), unknown origin (<i>Prunus domestica</i>), Iran (<i>Malus</i>), Spain (<i>Ligustrum ovalifolium</i> , <i>Prunus domestica</i> , <i>Rosa</i>)
<i>Parlatoria pergandii</i> Comstock	1951	Cuba (<i>Citrus</i>), Egypt (<i>Citrus</i>), unknown origin (<i>Citrus mitis</i> , <i>Citrus reticulata</i>), Israel (<i>Citrus</i>), Mexico (<i>Citrus</i>), Spain (<i>Citrus</i>), Suriname (<i>Citrus</i>), Tunisia (<i>Citrus</i>), USA (<i>Citrus maxima</i>)
<i>Parlatoria proteus</i> (Curtis)	1978	Guatemala (<i>Dracaena</i>), Ivory Coast (<i>Dracaena sanderana</i> , <i>Schefflera</i>), Philippines (Palmae), Sri Lanka (<i>Acorus</i> , <i>Ophiopogon</i>), Thailand (Orchidaceae)
<i>Parlatoria theae</i> Cockerell	1959	China (<i>Buxus microphylla</i>), Japan (<i>Acer</i> , <i>Acer palmatum</i> , <i>Crataegus cuneata</i> , <i>Ilex serrata</i> , <i>Zelkova serrata</i>)
<i>Parlatoria ziziphi</i> (Lucas)	1956	Cuba (<i>Citrus</i>), Egypt (<i>Citrus</i>), unknown origin (<i>Citrus</i>), Spain (<i>Citrus</i>), Tunisia (<i>Citrus</i>)
<i>Pinnaspis aspidistrae</i> (Signoret)	1977	Honduras (<i>Areca</i>), unknown origin (<i>Rhapis humilis</i>), Italy (<i>Aspidistra</i>), Sri Lanka (<i>Cocos</i>)
<i>Pinnaspis buxi</i> (Bouché)	1986	Sri Lanka (<i>Cordyline</i>)
<i>Pinnaspis strachani</i> (Cooley)	1955	East Africa (<i>Cocos</i>), Brazil (<i>Phoenix</i>), China (<i>Murraya</i> , <i>Sageretia</i>), Costa Rica (<i>Dracaena marginata</i>), Honduras (<i>Chrysalidocarpus</i>), unknown origin (<i>Murraya</i>), Ivory Coast (<i>Dracaena</i>)
<i>Pinnaspis theae</i> (Maskell)	1978	Singapore (Orchidaceae)
<i>Pseudaonidia duplex</i> (Cockerell)	1981	China (<i>Sageretia thea</i>), Hong Kong (<i>Acer palmatum</i>), Vietnam (<i>Whrightia religiosa</i>)
<i>Pseudaonidia paeoniae</i> (Cockerell)	1987	Japan (<i>Rhododendron</i>)
<i>Pseudaonidia trilobitiformis</i> (Green)	1987	Taiwan (<i>Ficus</i>)
<i>Pseudaulacaspis cockerelli</i> (Cooley)	1977	Sri Lanka (<i>Cocos</i>), USA (<i>Phoenix roebelenii</i>)
<i>Pseudaulacaspis pentagona</i> (Targioni Tozzetti)	1953	Belgium (<i>Actinidia chinensis</i>), China (<i>Lonicera</i> , <i>Prunus</i>), France (<i>Robinia pseudoacacia</i>), Greece (<i>Prunus armeniaca</i> , <i>Prunus persica</i>), Hungary (<i>Syringa vulgaris</i>), unknown origin (<i>Juniperus</i>), Indonesia (<i>Manihot utilissima</i>), Italy (<i>Catalpa</i> , <i>Morus alba</i> , <i>Platanus</i> , <i>Populus</i> , <i>Prunus avium</i> , <i>Sophora japonica</i> , <i>Ulmus</i>), Japan (<i>Carpinus japonica</i> , <i>Prunus mume</i> , <i>Prunus subhirtella</i>), Sri Lanka (<i>Codiaeum variegatum</i> , <i>Plumeria rubra</i>)
<i>Pseudaulacaspis prunicola</i> (Maskell)	1977	Japan (<i>Prunus sargentii</i> , <i>Prunus mume</i>)
<i>Pseudischnaspis bowreyi</i> (Cockerell)	1985	Guatemala (<i>Beaucarnea</i>)

TABLE 1 (continued)

<i>Quadraspidiotus armeniicus</i> (Borchsenius)	1953	Iran (<i>Populus alba</i>)
<i>Quadraspidiotus forbesi</i> (Johnson)	1951	USA (<i>Malus</i>)
<i>Quadraspidiotus gigas</i> (Thiem and Gerneck)	1955	Iran (<i>Populus euphratica</i>), Italy (<i>Salix</i>)
<i>Quadraspidiotus juglansregiae</i> (Comstock)	1951	USA (<i>Juglans</i>)
<i>Quadraspidiotus ostreaeformis</i> (Curtis)	1951	Belgium (<i>Prunus</i> , <i>Ribes uva-crispa</i> , <i>Sorbus</i>), Canada (<i>Malus</i> , <i>Prunus armeniaca</i>), unknown origin (<i>Malus</i>)
<i>Quadraspidiotus perniciosus</i> (Comstock)	1951	France (<i>Prunus domestica</i>), Germany (<i>Pyrus</i>), Hungary (<i>Rosa</i> , <i>Syringa vulgaris</i>), Italy (<i>Betula</i> <i>utilis</i> , <i>Juglans</i> , <i>Malus</i> , <i>Populus</i> , <i>Prunus</i> <i>domestica</i> , <i>Rosa</i> , <i>Tilia</i> , <i>Ulmus</i>), Japan (<i>Choenomelis</i> , <i>Malus micromalus</i> , <i>Pyracantha</i>), USA (<i>Malus</i> , <i>Pyrus</i>)
<i>Quadraspidiotus pyri</i> (Lichtenstein)	1952	Belgium (<i>Prunus</i> , <i>Prunus domestica</i> , <i>Sorbus</i>), Germany (<i>Prunus domestica</i>)
<i>Quadraspidiotus zonatus</i> (Frauenfeld)	1951	Belgium (<i>Quercus</i>)
<i>Rolaspis lounsburyi</i> (Cooley)	1979	South Africa (<i>Protea</i>)
<i>Selenaspidus articulatus</i> (Morgan)	1951	Cuba (<i>Citrus</i>), Guatemala (<i>Beaucarnea</i> <i>guatemalensis</i> , <i>Citrus</i>), Honduras (<i>Ardisia</i> , <i>Phoenix</i>), Suriname (<i>Citrus maxima</i>)
<i>Unaspis citri</i> (Comstock)	1969	Brazil (<i>Citrus</i>), Cuba (<i>Citrus maxima</i>), Ivory Coast (<i>Citrus</i>)
<i>Unaspis euonymi</i> (Comstock)	1976	Italy (<i>Euonymus japonica</i>)

TABLE 2

List of scale insects (Coccinea) found in greenhouses in the Netherlands,
year of first record, hostplant and greenhouse type (Gc: commercial greenhouse;
Gl: living-room; Gn: noncommercial greenhouses; G: unknown category)

MARGARODIDAE		
<i>Icerya purchasi</i> Maskell	1971	<i>Chamaedorea</i> (G), <i>Pittosporum</i> (Gc)
PSEUDOCOCCIDAE		
<i>Antonina pretiosa</i> Ferris	1994	<i>Bambusa</i> (Gn)
<i>Balanococcus diminutus</i> (Leonardi)	1989	<i>Phormium</i> (Gc)
<i>Chaetococcus bambusae</i> Maskell	1993	<i>Bambusa</i> (Gc)
<i>Dysmicoccus brevipes</i> (Cockerell)	1993	<i>Phalaenopsis</i> (Gc)
<i>Dysmicoccus mackenziei</i> Beardsley	1992	<i>Tillandsia</i> (Gc), <i>Vriesea albofasciata</i> (Gc)
<i>Dysmicoccus neobrevipes</i> Beardsley	1988	<i>Beaucarnea</i> (Gl), <i>Dracaena marginata</i> (Gl)

TABLE 2 (continued)

<i>Ferrisia virgata</i> (Cockerell)	1994	<i>Syngonium</i> (Gc)
<i>Geococcus coffeae</i> Green	1967	<i>Aechmea luddemanniana</i> (Gn), <i>Aglaonema modestum</i> (Gn), <i>Areca</i> (Gc), <i>Burbridgea schizocheila</i> (Gn), <i>Chamaedorea elegans</i> (Gc), <i>Cissus lecococcinea</i> (Gc), <i>Citrus</i> (Gc), <i>Codiaeum variegatum</i> (Gn), <i>Coffea</i> (Gl), <i>Dieffenbachia</i> (Gc), <i>Gardenia grandiflora</i> (Gn), <i>Hedera canariensis</i> (Gc), <i>Washingtonia filifera</i> (Gn)
<i>Nipaecoccus nipae</i> (Maskell)	1957	<i>Chrysalidocarpus</i> (Gn), <i>Dieffenbachia</i> (Gc), <i>Vriesea splendens</i> (Gc)
<i>Phenacoccus avenae</i> Borchsenius	1967	<i>Brodiaea</i> (Gc), <i>Freesia refracta</i> (Gc), <i>Iris</i> (Gc), <i>Narcissus tazetta</i> (Gc)
<i>Phenacoccus emansor</i> Williams and Kozarzhevskaya	1982	<i>Crocus zonatus</i> (Gc), <i>Freesia</i> (Gc), <i>Iris reticulata</i> (Gc)
<i>Phenacoccus madeirensis</i> Green	1994	<i>Gerbera</i> (Gc)
<i>Planococcus citri</i> (Risso)	1963	<i>Aglaonema</i> (G, Gc), <i>Astrophytum asterias</i> (Gc), <i>Blechnum</i> (Gc), <i>Cecropia</i> (Gn), <i>Clereodendrum</i> (Gc), <i>Codiaeum</i> (G, Gc), <i>Coffea</i> (Gn), <i>Cossia alba</i> (Gc), <i>Croton</i> (Gc), <i>Cucumis sativus</i> (Gc), <i>Dracaena</i> (G, Gc), <i>Ficus benjamina</i> (Gc), <i>Gardenia</i> (Gc), <i>Ixora</i> (Gc), <i>Kalanchoe</i> (Gl), <i>Psidium guajava</i> (Gn), <i>Pteridophyta</i> (Gc), <i>Sedum krvillei</i> (Gn), <i>Solanum tuberosum</i> (Gc, Gn), <i>Tolmiea menziesii</i> (Gl), <i>Vinca minor</i> (Gl)
<i>Pseudococcus affinis</i> (Maskell)	1987	<i>Bauhinia</i> (Gn), <i>Cactaceae</i> (G, Gc), <i>Eugenia</i> (Gn), <i>Ficus</i> (Gc), <i>Fremontodendron</i> (Gc), <i>Megaphrynium</i> (Gn), <i>Solanum lycopersicum</i> (Gc), unknown plant (Gc)
<i>Pseudococcus calceolariae</i> (Maskell)	1968	<i>Laurus nobilis</i> (Gl), unknown plant (G, Gc)
<i>Pseudococcus longispinus</i> (Targioni Tozzetti)	1968	<i>Beaucarnea</i> (Gc), <i>Cissus antartica</i> (G), <i>Cordyline</i> (Gc), <i>Dracaena marginata</i> (Gc), unknown plant (Gc)
<i>Pseudococcus maritimus</i> (Ehrhorn)	1957	<i>Bacopa</i> (Gc), <i>Beaucarnea</i> (Gc), <i>Begonia</i> (G), <i>Cactaceae</i> (G, Gl), <i>Clematis</i> (Gc), <i>Clereodendron</i> (G), <i>Clivia</i> (G), <i>Cyclamen</i> (Gl), <i>Cyperus</i> (G), <i>Epiphyllum truncatum</i> (G), <i>Euphorbia</i> (Gl), <i>Ficus benjamina</i> (Gc), <i>Gloxinia</i> (G), <i>Hoya carnosa</i> (G), <i>Kalanchoe</i> (Gl), <i>Passiflora</i> (G), <i>Prunus persica</i> (G), <i>Streptocarpus</i> (G), unknown plant (Gl), <i>Vitis vinifera</i> (Gn)
<i>Rhizoecus albidus</i> Goux	1967	<i>Crassula arborescens</i> (G), <i>Pelargonium odoratissimum</i> (G), <i>Silene dioica</i> (Gn)

TABLE 2 (continued)

<i>Rhizoecus cacticans</i> (Hambleton)	1961	<i>Begonia</i> (G), <i>Cactaceae</i> (G, Gc), <i>Cereus</i> (G), <i>Echinofossulocactus</i> (Gc), <i>Epiphyllum</i> (G), <i>Guzmania minor</i> (Gc), <i>Hemigraphis primulifolia</i> (G), <i>Kalanchoe</i> (G), <i>Mammillaria</i> (G, Gc), <i>Pelargonium</i> (G, Gn), <i>Streptocarpus</i> (Gl), <i>Veronica</i> (Gc), <i>Vriesea</i> (G, Gc, Gn)
<i>Rhizoecus dianthi</i> Green	1961	<i>Dianthus</i> (G), <i>Fragaria vesca</i> (G), 'ground' (G), <i>Gynura</i> (Gl), <i>Nautilocalyx</i> (G), <i>Saintpaulia</i> (G, Gl)
<i>Rhizoecus elongatus</i> Green	1955	<i>Aloe</i> (G)
<i>Rhizoecus solani</i> (Hambleton)	1976	<i>Cereus</i> (G)
<i>Spilococcus mamillariae</i> (Bouché)	1972	<i>Astrophytum asterias</i> (Gc), <i>Cactaceae</i> (Gn), <i>Echinocactus</i> (G)
<i>Vryburgia amaryllidis</i> (Bouché)	1954	<i>Agapanthus orientalis</i> (Gn), <i>Amaryllis</i> (G), <i>Hippeastrum</i> (G, Gc, Gl), <i>Tulipa</i> (G, Gc), <i>Vallota</i> (Gc)
COCCIDAE		
<i>Ceroplastes floridensis</i> Comstock	1992	<i>Schefflera</i> (Gc)
<i>Ceroplastes rusci</i> (Linnaeus)	1994	<i>Cocos</i> (Gn), <i>Ficus benjamina</i> (Gn)
<i>Coccus hesperidum</i> Linnaeus	1944	<i>Acalypha</i> (G), <i>Anthurium andreaeanum</i> (G), <i>Camellia</i> (G), <i>Citrus</i> (G), <i>Coffea</i> (G), <i>Cyclamen</i> (G, Gl), <i>Cyrtomium falcatum</i> (G), <i>Dianthus</i> (Gl), <i>Dizigotheca elegantissima</i> (G), <i>Fatsyhedera</i> (G), <i>Fatsia</i> (G), <i>Ficus</i> (G), <i>Ficus benjamina</i> (G), <i>F. diversifolia</i> (G), <i>F. elastica</i> (G), <i>Hedera canariensis</i> (G), <i>Hippeastrum</i> (G), <i>Ilex</i> (G), <i>Laurus</i> (G, Gc), <i>L. nobilis</i> (G, Gl), <i>Monstera</i> (G, Gl), <i>Musa</i> (G), <i>Nephrolepis</i> (G), <i>Nerium</i> (G), <i>Orchidaceae</i> (Gc), <i>Pilea</i> (G), <i>Pinus nigra</i> (G), <i>Platynerium</i> (G), <i>Plumeria acuminata</i> (G), <i>Podocarpus</i> (Gc), <i>Prunus domestica</i> (G), <i>Sageretia</i> (Gc), <i>Saxifraga sarmentosa</i> (G), <i>Schefflera</i> (G), <i>Strebulus</i> (Gc), <i>Trifolium repens</i> (G), unknown plant (Gn), <i>Vinca</i> (Gn)
<i>Coccus longulus</i> (Douglas)	1994	<i>Anona</i> (Gn)
<i>Coccus viridis</i> (Green)	1990	<i>Ixora</i> (Gn)
<i>Parasaissetia nigra</i> (Nietner)	1980	<i>Ficus elastica</i> (Gc)
<i>Parthenolecanium corni</i> (Bouché)	1976	<i>Prunus persica</i> (G), <i>Vitis vinifera</i> (G)
<i>Pulvinaria floccifera</i> (Westwood)	1991	<i>Ilex</i> (Gc), <i>Taxus</i> (Gc), <i>Vaccinium vitis-idaea</i> (Gc)
<i>Pulvinaria mesembryanthemi</i> (Vallot)	1961	<i>Mesembryanthemum</i> (Gn)
<i>Pulvinaria vitis</i> (Linnaeus)	1974	<i>Vitis vinifera</i> (Gn)

TABLE 2 (continued)

<i>Saissetia coffeae</i> (Walker)	1944	<i>Agathis</i> (G), <i>Aphelandra</i> (G), <i>Asparagus plumosus</i> (G), <i>Asplenium nidus</i> (Gc), <i>Blechnum</i> (Gc), <i>Buxus</i> (Gc), <i>Chlorophytum</i> (Gn), <i>Cycas</i> (Gc), <i>C. circinalis</i> (Gl), <i>Ficus</i> (G, Gc), <i>Hoya carnosa</i> (Gl), <i>Myrthus communis</i> (G), <i>Nephrolepis</i> (G, Gc), <i>Nerium</i> (G, Gl), <i>Pellaea rotundifolia</i> (G), <i>Pilea</i> (G), <i>Platynerium</i> (G), <i>Stephanotis</i> (G), <i>Yucca</i> (Gc), <i>Eleagnus</i> (Gc), <i>Ficus benjamina</i> (Gc)
<i>Saissetia oleae</i> (Olivier)	1975	<i>Cycas revoluta</i> (Gc), <i>Kalanchoe</i> (Gc)
<i>Vinsonia stellifera</i> (Westwood)	1994	<i>Cinnamomum camphora</i> (Gn)
CEROCOCCIDAE		
<i>Pollinia pollini</i> (Costa)	1993	<i>Olea</i> (Gn)
ERIOCOCCIDAE		
<i>Eriococcus araucariae</i> Maskell	1989	<i>Araucaria</i> (Gc)
<i>Eriococcus coccineus</i> Cockerell	1968	Cactaceae (G), <i>Mammillaria</i> (G)
<i>Ovaticoccus agavium</i> (Douglas)	1976	<i>Yucca</i> (Gc)
ASTEROLECANIIDAE		
<i>Asterolecanium epidendri</i> (Bouché)	1979	<i>Angraecum sesquipedale</i> (Gn), <i>Bulbophyllum grandiflorum</i> (Gn), <i>Dendrochilum</i> (Gc), <i>Epidendrum ibagaense</i> (Gn), <i>Keffersteinia gramine</i> (Gn)
<i>Bambusaspis bambusae</i> (Boisduval)	1989	<i>Bambusa vulgaris</i> (Gn)
DIASPIDIDAE		
<i>Abgrallaspis cyanophylli</i> (Signoret)	1977	<i>Beaucarnea</i> (Gc), <i>Costus cuspidatus</i> (Gc), <i>Dracaena marginata</i> (Gc), <i>Melocactus</i> (Gc), <i>Pachypodium</i> (Gc)
<i>Aonidiella aurantii</i> (Maskell)	1988	<i>Citrus</i> (Gn)
<i>Aonidiella citrina</i> (Coquillett)	1951	<i>Citrus</i> (Gn)
<i>Aonidiella orientalis</i> (Newstead)	1990	<i>Kentia</i> (Gc)
<i>Aspidiotus excisus</i> Green	1988	<i>Aglaonema</i> (Gc)
<i>Aspidiotus nerii</i> Bouché	1950	<i>Asparagus plumosus</i> (Gl), <i>Citrus</i> (Gc), <i>Cymbidium</i> (Gc), <i>Fatsyhedera</i> (Gl), <i>Howeia</i> (Gc, Gl), <i>H. forsteriana</i> (Gn), <i>Nerine</i> (Gl), <i>Phoenix</i> (G, Gn), <i>P. canariensis</i> (Gl), unknown plant (Gl)
<i>Chrysomphalus aonidum</i> (Linnaeus)	1977	<i>Chamearops</i> (Gc), <i>Dracaena bicolor</i> (Gc), <i>Ficus</i> (Gc), <i>Ravenala madagascariensis</i> (Gn)
<i>Chrysomphalus dictyospermi</i> (Morgan)	1978	<i>Dendrochilum</i> (G), <i>Ophiopogon japonica</i> (Gc), <i>Pandanus</i> (G)

TABLE 2 (continued)

<i>Diaspis boisduvalli</i> Signoret	1957	<i>Ananas</i> (G), <i>Anguloa uniflora</i> (Gc), <i>Bifrenaria harrissoniae</i> (G), <i>Bulbophyllum</i> (Gn), <i>Cattlea</i> (G, Gc), <i>Cocos</i> (G), <i>Livistona rotundifolia</i> (Gl), <i>Microcoelum</i> (G), Orchidaceae (G, Gn), <i>Phoenix</i> (Gc), <i>Strelitzia</i> (Gc), <i>Vriesea</i> (Gn)
<i>Diaspis bromeliae</i> (Kerner)	1961	<i>Aechmea</i> (G), <i>A. fasciata</i> (Gc), <i>Ananas</i> (G), <i>Nidularium fulgens</i> (G), <i>N. tricolor</i> (Gc), <i>Vriesea splendens</i> (G)
<i>Diaspis echinocacti</i> (Bouché)	1958	<i>Austroclindropuntia subulata</i> (G), Cactaceae (G), <i>Opuntia</i> (G)
<i>Epidiaspis tillandsiae</i> Takagi and Tippins	1995	<i>Tillandsia xerographica</i> (Gc)
<i>Fiorinia fioriniae</i> (Targioni Tozzetti)	1990	<i>Howeia</i> (Gc)
<i>Fiorinia theae</i> Green	1995	<i>Podocarpus</i> (Gc)
<i>Furchadaspis zamiae</i> (Morgan)	1951	<i>Cycas revoluta</i> (Gc, Gn), <i>Strelitzia</i> (Gc), <i>Cycas</i> (Gn), <i>Eucephalontis villosus</i> (Gn)
<i>Gymnaspis aechmeae</i> Newstead	1961	<i>Aechmea fabocata</i> (Gn), <i>Bilbergia nutans</i> (G)
<i>Hemiberlesia lataniae</i> (Signoret)	1950	<i>Beaucarnea</i> (Gc, Gn), <i>Chrysalidocarpus lutescens</i> (Gc), <i>Euphorbia splendens</i> (G), <i>Ficus</i> (G), <i>Howeia</i> (Gc), <i>Jatropha</i> (Gn), Palmae (Gc, Gn)
<i>Hemiberlesia palmae</i> (Cockerell)	1958	<i>Aechmea weilbarchii</i> (Gc), <i>Nidularium</i> (Gc), <i>Vriesea nana</i> (Gc)
<i>Hemiberlesia rapax</i> (Comstock)	1966	<i>Acacia floribunda</i> (G), <i>Cleyera japonica</i> (G)
<i>Ichnaspis longirostris</i> (Signoret)	1993	<i>Dracaena</i> (Gn), <i>Ficus</i> (G)
<i>Lepidosaphes machili</i> (Maskell)	1961	<i>Cymbidium</i> (G, Gn)
<i>Lepidosaphes ulmi</i> (Linnaeus)	1992	<i>Crataegus</i> (Gc)
<i>Lindingaspis rossi</i> (Maskell)	1984	<i>Araucaria</i> (Gc)
<i>Lopholeucaspid cockerelli</i> (Granpré and Charmoy)	1995	<i>Zelkova</i> (Gc)
<i>Mycetaspis personata</i> (Comstock)	1994	<i>Phoenix</i> (Gc)
<i>Odonaspis greeni</i> (Cockerell)	1992	Bamboo (Gc)
<i>Opuntiaspis carinata</i> (Cockerell)	1990	<i>Yucca</i> (Gc)
<i>Parlatoria pergandii</i> Comstock	1990	<i>Citrus</i> (Gn)
<i>Phenacaspis cockerelli</i> (Cooley)	1978	<i>Chamaerops</i> (Gc), <i>Sageretia</i> (Gc)
<i>Pinnaaspis aspidistrae</i> (Signoret)	1954	<i>Areca</i> (Gc), <i>Aspidistra</i> (G), <i>Cycas circinalis</i> (G), <i>C. runghii</i> (Gn), <i>Dracaena</i> (Gc), <i>Nephrolepis</i> (Gc), Palmae (G), <i>Platynerium</i> (G, Gl), <i>Rhapis excelsa</i> (Gc)
<i>Pinnaaspis buxi</i> (Bouché)	1986	<i>Coelogyne</i> (Gn)

TABLE 2 (continued)

<i>Pinnaspis strachani</i> (Cooley)	1956	<i>Dracaena</i> (Gc), <i>Dracaena deremensis</i> (Gc), <i>D. marginata</i> (Gc), <i>Murraya</i> (Gc), <i>Sageretia</i> (Gc), <i>Sansevieria</i> (G)
<i>Pseudaonidia paeoniae</i> (Cockerell)	1977	<i>Rhododendron</i> (Gc)
<i>Pseudaulacaspis pentagona</i> (Targioni Tozzetti)	1990	<i>Adenium</i> (Gc), <i>Catalpa</i> (Gc), <i>Codiaeum</i> (Gc), <i>Croton aucubifolia</i> (Gc), <i>Morus rubra</i> (Gn), <i>Plumeria</i> (Gc)
<i>Pseudaulacaspis prunicola</i> (Maskell)	1977	<i>Prunus</i> (Gc)
<i>Pseudoparlatoria parlatorioides</i> (Comstock)	1981	<i>Paphiopedilum</i> (G, Gc)
<i>Quadraspidiotus ostreaeformis</i> (Curtis)	1952	<i>Prunus domestica</i> (G), <i>Tilia</i> (G)
<i>Selenaspis articulatus</i> (Morgan)	1993	<i>Phoenix</i> (Gc)
<i>Unaspis citri</i> (Comstock)	1976	<i>Citrus</i> (G)

ACKNOWLEDGMENTS

For the identifications of numerous species I am much obliged to the late H. Burger and the late Dr. A. Reyne. My thanks are due to Dr. D.J. Williams, England and to Dr. Y. Ben-Dov, Israel for the identification of several species. I am very grateful to G. Romeijn, Plant Protection Service Wageningen, who advised me about the use of the computer program.

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