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Checklist of the Armored Scales (Homoptera: Diaspididae) of the Conterminous United States

By Sueo Nakahara

USDA, APHIS, PPO
Hoboken Methods Development Center
209 River Street
Hoboken, NJ 07030

**United States
Department of
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There are approximately 1,700 species of armored scales (Diaspididae) in the world (Beardsley and Gonzalez (1975: 47) and 285 species in the conterminous United States. Although 297 species are treated in this list, 12 species are regarded as eradicated. These 12 species are known only from the original collections and have not been collected during the past 40 years, or are recorded only from localized infestations that have been subjected to eradication measures. Aonidiella inornata McKenzie was recorded from Houston, Texas (McDaniel 1968:212), and Quadraspidotus braunschvigi (Rungs) (Ferris 1942:426) is known only from the original collection. Although treated as eradicated, both species may still exist as localized infestations.

Melanaspis multiclavata (Green and Laing) recorded from Florida by Ferris (1941:429) is a misidentification of an undescribed species (Davidson 1978, per. comm.) and is excluded from this paper. Also excluded is Parlatoria ziziphi (Lucas) (= P. zizyphus) reported from Mississippi (Ferris 1937:90) on the basis of one old record from lemons and oranges of questionable origin.

Abgrallaspis comstocki (Johnson) and A. howardi (Cockerell) possibly are forms of Diaspidiotus ancylus (Putnam) (Stannard 1965:573), but are listed as separate species because of taxonomical problems with D. ancylus and related species. Although A. townsendi (Cockerell) is considered a synonym of A. howardi by various workers, it is treated here as a separate species. Diaspidiotus piceus (Sanders) was treated as a junior synonym of D. hunteri (Newell) by Ferris (1938:182), which in turn is a junior synonym of Quadraspidotus ostreaeformis (Curtis). Although treated here as a separate species, D. piceus may be a form of D. ancylus.

The information for each species consists of an abbreviated synonymy, world distribution, and an abbreviated list of host-plants. Some of the names used here differ

Sueo Nakahara 1/

1/ Entomologist, United States Department of Agriculture,
Animal and Plant Health Inspection Service, Beltsville, MD
20705

from those currently used by other coccidologists; in these cases, the other names are included in the synonymy. For a detailed synonymy, refer to Borchsenius (1966). In the distribution, the States are abbreviated as given in the index. East and West Germany are treated as Germany. The island of Taiwan and mainland China are treated separately. Hawaii is placed in "Other Areas" because it is not a conterminous State. The foreign countries are grouped under the following headings: NEW WORLD (North and South America, Caribbean Islands, Bermuda); EUROPE (includes Azores, excludes European USSR); USSR; AFRICA (includes outlying islands in the Atlantic and Indian Oceans); ASIA (eastern shore of Mediterranean Sea to Far East); OTHER AREAS (Australia, New Guinea, Pacific Islands). The host plants include those reported from foreign countries. Most of the species infest many host plants and are indicated as polyphagous. However, if the species is commonly found on certain hosts, or known only from a few hosts, the names of the host plants are given.

The users of this list should be cognizant that many of the distribution records were obtained from the literature and agricultural quarantine interception records, and are unverified. Additional information was obtained from the slide material and card files in the Coccoidea Collection of the U. S. National Museum of Natural History, records in the Cooperative Economic Insect Report and Cooperative Plant Pest Report, U. S. Dept. of Agriculture, and various coccidologists. Unfortunately, up-to-date information of the insect fauna of many states and foreign countries is unavailable and distribution for many species is incomplete.

An asterisk after a State denotes old record(s) of 40 or more years. In some cases, the species may no longer exist in the State, especially for tropical species in northern greenhouses. Two asterisks after a species mean that the species apparently does not exist now in the United States. A plus sign after a country means that the distribution record is based on one or two quarantine interceptions and that no report from that country was found in the literature. Therefore, the record requires confirmation. Greenhouse means that the species was found on house plants or plants grown in hot houses.

Reference citations are presented only in the introduction, and only the major sources of information are included in the references. Although much information was obtained from the "List of Intercepted Plant Pests",

Cooperative Economic Insect Report and Cooperative Plant Pest Report, these sources are not included in the references.

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colorata
(Cockerell)

Aspidiotus uvae var. coloratus Cockerell; Aspidiotus coloratus Cockerell; Hemiberlesia colorata (Cockerell)

DISTRIBUTION:
NM, TX

HOSTS:
Chilopsis linearis

comstocki
(Johnson)

Aspidiotus comstocki Johnson; Aspidiella comstocki (Johnson); Hemiberlesia comstocki (Johnson); Gonaspidotus comstocki (Johnson)

DISTRIBUTION:
DC, FL, GA, IL, IN, KY, MO, MS, NC, OH, PA, SC, TN, TX, VA, WV

HOSTS:
Acer, A. saccharinum, A. saccharum

cyanophylli
(Signoret)

Aspidiotus cyanophylli Signoret; Furcaspis cyanophylli (Signoret); Hemiberlesia cyanophylli (Signoret)

DISTRIBUTION:
General distribution in U. S. Widespread throughout the tropical and subtropical areas of the world. Greenhouse in temperate areas

HOSTS:
Polyphagous

degenerata
(Leonardi)

Chrysomphalus degeneratus Leonardi; Aspidiotus degeneratus (Leonardi); Hemiberlesia degenerata (Leonardi); Dynaspidotus degeneratus (Leonardi)

DISTRIBUTION:
CA, MD, OR
Europe:
Greece, Italy, Portugal
Asia:
China, Japan, Korea

HOSTS:
Aralia, Camellia, Citrus, Eurya, Ilex, Osmanthus, Thea

fraxini
(McKenzie)

Hemiberlesia fraxini McKenzie

DISTRIBUTION:
AZ, CA
New World:
Mexico

HOSTS:
Fraxinus

howardi
(Cockerell)

Aspidiotus howardi Cockerell; Aspidiotus epigaeae
Marlatt; Aspidiotus pseudospinosus Woglum;
Hemiberlesia howardi (Cockerell); Gonaspidotus
howardi (Cockerell)

DISTRIBUTION:
AL, AZ, CA, CO, CT, DC, DE, FL, GA, IA, IL, LA, MA, MD,
MO, MS, NC, NJ, NY, OK, PA, RI, SC, TN, TX, VA, WV
New World:
Mexico

HOSTS:
Polyphagous

ithaeae
(Ferris)

Aspidiotus ithaeae Ferris; Gonaspidotus ithaeae (Ferris)

DISTRIBUTION:
CT, GA, IN, MD, NY, OH, PA, TN, VA, WV

HOSTS:
Abies, Pseudotsuga, Tsuga

oxycoccus
(Woglum)

Aspidiotus oxycoccus Woglum; Aspidiella oxycoccus
(Woglum); Aspidaspis oxycoccus (Woglum); Gonaspidotus
oxycoccus (Woglum)

DISTRIBUTION:
MA, NJ, OR, WA

HOSTS:
Rhododendron, Vaccinium, V. oxycoccus

quercicola
(Ferris)

Hemiberlesia quercicola Ferris

DISTRIBUTION:

CA, NM

HOSTS:

Quercus

townsendi
(Cockerell)

Aspidiotus townsendi Cockerell

DISTRIBUTION:

AL, AR, DC, FL, GA, LA, MA, MD, MO, MS, OH, PA, TN, TX,
VA

New World:

Mexico

HOSTS:

Polyphagous

ACUTASPIS

agavis
(Townsend &
Cockerell)

Aspidiotus agavis Townsend & Cockerell; Chrysomphalus
agavis (Townsend & Cockerell)

DISTRIBUTION:

AZ, TX. Greenhouse in DC*

New World:

Costa Rica, Mexico, Trinidad, Venezuela

HOSTS:

Agave, Yucca

albopicta
(Cockerell)

Aspidiotus albopictus Cockerell; Chrysomphalus
albopictus (Cockerell); Aspidiotus albopictus
var. leonis Townsend & Cockerell; Aspidiotus
koebelii Townsend & Cockerell; Chrysomphalus
koebelii (Townsend & Cockerell)

DISTRIBUTION:

TX, (CA eradicated)

New World:

Costa Rica, Ecuador, Guatemala, Honduras, Mexico, Panama

HOSTS:

Polyphagous

morrisonorum
Kosztarab

DISTRIBUTION:
AL, FL, GA, LA, MA, MI, NC, OH, OK, PA, TN, VA
New World:
Bermuda, Canada (Quebec)

HOSTS:
Abies, Chamaecyparis, Cupressus, Juniperus, Picea, Pinus,
Thuja, Torreya, Tsuga

perseae
(Comstock)

Aspidiotus perseae Comstock; Chrysomphalus perseae
(Comstock)

DISTRIBUTION:
AL, DC, FL, GA, LA, MO, MS, OK, SC, TN, TX: greenhouse in
NY*
New World:
Brazil, Central America, Colombia, Cuba, Trinidad,
Venezuela
Europe:
Greenhouse in England, Germany :
USSR:
Kiev in greenhouse

HOSTS:
Polyphagous

scutiformis
(CockereTT)

Aspidiotus scutiformis Cockerell; Chrysomphalus
scutiformis (CockereTT)

DISTRIBUTION:
TX
New World:
Argentina, Aruba, Brazil, Colombia, Guatemala, Mexico

HOSTS:
Polyphagous

ANCEPASPIS

edentata
(Ferris)

Protodiaspis edentata Ferris

DISTRIBUTION:
AZ

HOSTS:
Acacia gregii

tridentata
(Ferris)

Protodiaspis tridentata Ferris

DISTRIBUTION:

AZ, TX.

New World:

Mexico

HOSTS:

Prosopis glandulosa, P. velutina

ANDASPIS

hawaiiensis
(Maskell)

Mytilaspis flava var. hawaiiensis Maskell; Lepidosaphes hawaiiensis (Maskell); Lepidosaphes moorsi Doane & Ferris

DISTRIBUTION:

FL, greenhouse in DC*, MD*

New World:

Barbados, Cuba, Jamaica

Africa:

Algeria, South Africa

Asia:

China, Philippines, Sri Lanka, Taiwan

Other Areas:

Bonin Is., Hawaii, Samoa

Hosts:

Polyphagous

mackieana
(McKenzie)

Lepidosaphes mackieana McKenzie

DISTRIBUTION:

CA, FL; greenhouse in DC, NJ

Other Areas:

Hawaii

HOSTS:

Dendrobium, orchid

Funicaria (Liang)

Hawaii

Dom. Rep. citrus sp.

ANNULASPIS

polygona
Ferris

DISTRIBUTION:

TX

HOSTS:

perennial grass

AONIDIA

atlantica
Ferris

Cupressaspis atlantica (Ferris)

DISTRIBUTION:
FL, GA

HOSTS:
Chamaecyparis thyoides, Juniperus

lauri
(Bouche)**

Aspidiotus lauri Bouche

DISTRIBUTION:
DC*, MS*, NY*; (CA eradicated)
Africa:
Canary Is., Cape Verde, Madeira Is., North Africa
Europe:
Azores, southern Europe, greenhouse in central and north-
ern countries
Asia:
Near East
USSR:
Greenhouse

HOSTS:
Laurus nobilis

shastae
(Coleman)

Aspidiotus coniferarum var. shastae Coleman;
Crytaspidotus shastae (Coleman); Cupressaspis shastae
(Coleman)

DISTRIBUTION:
AZ, CA, KS, MO, NJ, OK, TX, UT

HOSTS:
Cupressus, Libocedrus, Juniperus, Sequoia

AONIDIELLA

aurantii
(Maskell)

Aspidiotus aurantii Maskell; Chrysomphalus aurantii
(Maskell)

DISTRIBUTION:
AL, CA, FL, GA, TX; greenhouse in DC*, KS, NJ, MO*, PA,
OR*
New World:
Antigua, Bahamas, Barbados, Bermuda, Dominica, Dominican
Republic, Guadeloupe, Guyana, Jamaica, Mexico, Nicaragua,
Martinique, Montserrat, Panama, St. Lucia, St. Vincent,

Trinidad, South America

Europe:

Countries in Mediterranean area

Africa:

North Africa, Angola, Canary Is., Congo, Ethiopia, Guinea, Kenya, Madagascar, Madeira Is., Malawi, Mauritius, Mozambique, Reunion, Rhodesia, Senegal, Seychelles, Sudan, South Africa, Tanzania, Togo, Uganda, Zambia

USSR:

Black Sea Coast, Transcaucasia

Asia:

Widely distributed

Other Areas:

Australia, Fiji, Guam, New Britain, New Caledonia, New Zealand, Russell Is., Samoa, Society Is., Solomon Is., Tonga, Wallis Is.

HOSTS:

Citrus and other hosts

citrina
(Coquillett)

Aspidiotus citrinus Coquillett; Aspidiotus aurantii var. citrinus Coquillett; Anidiella aurantii citrina (Coquillett); Chrysomphalus aurantii citrinus (Coquillett); Chrysomphalus citrinus (Coquillett)

DISTRIBUTION:

CA, FL, TX

New World:

Chile, Jamaica, Mexico, Nicaragua.

Africa:

Guinea, South Africa, Zaire

USSR:

Armenia, Azerbaijan, Crimea, Georgia, Krasnodar region

ASIA:

Afghanistan, Bangladesh, China, India, Indonesia, Iran, Japan, Malaysia, Korea, Nepal, Pakistan, Okinawa, Philippines, Southern Yemen, Taiwan, Thailand, Turkey

Other Areas:

Australia, Bonin Is., Fiji, New Guinea, Western Samoa

HOSTS:

Citrus and other hosts

inornata
McKenzie**

DISTRIBUTION:

TX (1 record)

New World:

Ecuador+, Dominican Republic+, Puerto Rico

Asia:
China, Hong Kong, India, Indonesia, Japan, Laos, Okinawa,
Philippines, Taiwan, Thailand
Other Areas:
Australia, Guam, Hawaii, Kusaie, Marshall Is., Palau Is.,
Ponape, New Guinea, Truk, Wake Is., Yap Is.

HOSTS:
Polyphagous - often on Citrus, Mangifera indica, Cocos
nucifera

orientalis
(Newstead)

Aspidiotus orientalis Newstead; Aspidiotus (Aonidiella)
cocotiphagus Maskell; Chrysomphalus orientalis (Newstead);
Aonidiella cocotiphagus (Maskell)

DISTRIBUTION:

FL

New World:

Bahamas, Brazil, Caribbean Islands, Colombia, Mexico,
Panama, Venezuela

Africa:

Ethiopia, Kenya, Madagascar, Mauritius, Somalia, South
Africa, Sudan, Tanzania

Asia:

Afghanistan, Burma, Cambodia, China, Hong Kong, India,
Indonesia, Iran, Iraq, Laos, Malaysia, Nepal, Nicobar Is.,
Pakistan, Philippines, Saudi Arabia, Singapore, Sri Lanka,
Thailand, Vietnam

Other Areas:

Australia, Mariana Is., Yap. Is.

HOSTS:

Polyphagous - often on cycads, Mangifera indica, palms

taxus
Leonardi

Chrysomphalus taxus (Leonardi)

DISTRIBUTION:

AL, FL, LA, MD; (CA eradicated)

New World:

Argentina, Brazil

Europe:

Italy

USSR:

Black Sea coast of Western Georgia, Crimea

Asia:

Japan

HOSTS:
Cephalotaxus, Podocarpus, Taxus

AONIDOMYTIUS

albus
(Cockerell)

Mytilaspis albus Cockerell; Lepidosaphes alba (Cockerell);
Coccomytilus dispar (Vayssiere); Lepidosaphes dispar
(Vayssiere)

DISTRIBUTION:

FL

New World:

Argentina, Bahamas, Brazil, Caribbean Islands, Colombia,
Honduras, Mexico, Peru, Surinam

Africa:

Angola, Gambia, Ghana, Ivory Coast, Kenya, Liberia,
Madagascar, Malawi, Mauritius, Mozambique, Nigeria,
Senegal, Tanzania, Uganda, Zaire

Asia:

India, Indonesia, Sri Lanka, Taiwan

HOSTS:

Often on Manihot esculenta; Carica papaya, Malvastrum,
Malvaceae, other hosts.

bilobis
Ferris

Dactylaspis biloba (Ferris)

DISTRIBUTION:

CA

HOSTS:

Allenrolfea, Atriplex

ceanothi
(Ferris)

Lepidosaphes ceanothi Ferris; Chionaspis ceanothi (Ferris)

DISTRIBUTION:

CA

HOSTS:

Ceanothus

concolor
(Cockerell)

Mytilaspis albus var. concolor Cockerell; Lepidosaphes
concolor (Cockerell); Chionaspis concolor (Cockerell)

DISTRIBUTION:
AZ, CA, CO, NM, TX
New World:
Mexico

HOSTS:
Atriplex, Borrchia frutescens, Encelia farinosa,
Franseria, Haplopappus laricifolius, Isomeris, Pedilanthus
macrocarpus, Quercus, Prosopis, Suaeda

durus
Ferris

Dactylaspis dura (Ferris)

DISTRIBUTION:
CA

HOSTS:
Lycium cooperi

hyperici
Ferris

DISTRIBUTION:
AL, DC, GA, FL, MS, NC, VA

HOSTS:
Ascyrum hypericoides, Hypericum glomeratum

incisus
Ferris

DISTRIBUTION:
AZ, TX

HOSTS:
Atriplex, Eurotia lanatum

multiglandulatus
Kosztarab

DISTRIBUTION:
FL, GA, IL, IN, MD, MO, OH, VA

HOSTS:
Hypericum

peninsularis
(Ferris)

Lepidosaphes peninsularis Ferris

DISTRIBUTION:
TX
New World:
Mexico

HOSTS:
Asclepias subulata, Euphorbia antisyphilitica, Porophyllum gracile

sabatius
Tippins

DISTRIBUTION:
AL

HOSTS:
Polygala cymosa, Sabatia

solidaginis
(Hoke)

Lepidosaphes solidaginis Hoke

DISTRIBUTION:
AL, FL, GA, MD, MS, OK, SC, TN, VA
New World:
Cuba

HOSTS:
Baccharis halimifolia, Borrichia frutescens, Eupatorium,
Iva imbricata

variabilis
Ferris

DISTRIBUTION:
CA

HOSTS:
Catalpa, Encelia, Haplopappus, Sambucus

ASPIDASPIIS

arctostaphyli
(Cockerell &
Robbins)

Aspidiotus arctostaphyli Cockerell & Robbins;
Aspidiella arctostaphyli (Cockerell & Robbins)

DISTRIBUTION:
CA, OR

HOSTS:
Arbutus menziesii, Arctostaphylos, laurel, Umbrellularia californica

densiflorae
(Bremner)

Aspidiotus densiflorae Bremner; Aspidiella densiflorae
(Bremner)

DISTRIBUTION:
CA

New World:
Mexico (Guadeloupe Is.)

HOSTS:
Pasania densiflora, Quercus

florenciae
(Coleman)

Aspidiotus florenciae Coleman

DISTRIBUTION:
AZ, CA

HOSTS:
Pinus pinderosa

gainesi
McDaniel

DISTRIBUTION:
TX

HOSTS:
Antirrhinum

ASPIDIELLA

sacchari
(Cockere11)

Aspidiotus sacchari Cockere11

DISTRIBUTION:
FL, TX

New World:

Bahamas, most Caribbean Islands, Central America,
Colombia, Guyana, Mexico

Africa:

Liberia, Madagascar, Mauritius, Nigeria, Reunion,
Rodrigues, Sierra Leone.

Asia:

Indonesia (Java), Laos, Malaysia, Pakistan, Sri Lanka

Other Areas:

Fiji, Guam, Kwajalein, New Guinea, Palau Is., Saipan,
Tahiti+, Tinian

HOSTS:

Canna, Cocos nucifera, Coix lacryma-jobi, Costus,
Saccharum officinarum, various grasses.

ASPIDIOTUS

cryptomeriae
Kuwana

DISTRIBUTION:
CT, DE, IN, MD, NY, PA
USSR:
Far east
Asia:
China, Japan, Korea, Taiwan

HOSTS:
Abies, Cedrus, Cephalotaxus, Chamaecyparis, Cryptomeria,
Keteleeria, Picea, Pinus, Pseudotsuga, Taxus, Torreya

destructor
Signoret

Aspidiotus transparentis Green; Aspidiotus translucens
Cockerell & Robinson; Temnaspidotus destructor (Signoret)

DISTRIBUTION:
FL, GA; greenhouse in CT, PA; (CA eradicated)
New World:
Widespread except no report from Argentina, Canada, Chile,
Paraguay and Uruguay
Europe:
Germany (greenhouse)
Africa:
Reported from many countries south of Sahara Desert on
continent, Canary Is., Cape Verde, Madagascar, Madeira
Is., Mauritius, Reunion, Seychelles; no record from North
Africa except Egypt
USSR:
Azerbaijan, Georgia
Asia:
Iran eastward to Indonesia, north into Japan and Korea
Other Areas:
Australia, Bonin Is., Caroline Is., Fiji, Hawaii, Mariana
Is., Marshall Is., New Britain, New Caledonia, New Guinea,
New Hebrides, Samoa, Society Is., Solomon Is., Tuamotu
Is., Wallis Is.

HOSTS:
Polyphagous

excisus
Green

Temnaspidotus excisus (Green)

DISTRIBUTION:
FL
New World:
Antigua, Colombia, Costa Rica, Dominican Republic,

Ecuador, El Salvador, Grenada, Guatemala, Guyana, Honduras, Jamaica, Martinique, Mexico, Panama, Puerto Rico, St. Croix, Surinam, Trinidad, Venezuela

Asia:

China, India, Indonesia, Japan, Pakistan, Philippines, Singapore, Sri Lanka, Taiwan, Thailand

Other Areas:

Fiji, New Guinea, Palau Is., Saipan, Tinian, Yap Is.

HOSTS:

Polyphagous; often on Aglaonema and Citrus

marisci
Tippins &
Beshear

DISTRIBUTION:

AL, FL, GA

HOSTS:

Cladium, Mariscus jamaicensis

nerii
Bouche

Chermes nerii Bouche; Aspidiotus hederæ (Vallot);
Aspidiotus vagabundus Cockerell

DISTRIBUTION:

General distribution in United States ; greenhouse in colder states

New World:

Antigua, Argentina, Bermuda, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Ecuador, Dominican Republic, Grenada, Guatemala, Guadeloupe, Haiti, Jamaica, Mexico, Panama, Peru, Puerto Rico, Uruguay

Europe:

Widespread; Azores

USSR:

Armenia, Azerbaijan, Crimea, Krasnodar; greenhouse

Africa:

North Africa, Canary Is., Ethiopia, Kenya, Madagascar, Madeira Is., Malawi, Mozambique, Nigeria, Rhodesia, South Africa, S.W. Africa, Tanzania, Uganda, Zaire

Asia:

China, Cyprus, Iran, Israel, Jordan, Korea, Lebanon, Japan, Saudi Arabia, Syria, Turkey

Other Areas:

Australia, Hawaii, New Caledonia, New Zealand

HOSTS:

Polyphagous

spinosus
Comstock

Aspidiotus persearum Cockerell

DISTRIBUTION:

AL, CA, FL, GA, LA, MS, TX; greenhouse in DC*, NY, VA

New World:

Bahamas, Bermuda, Brazil, Central America, Colombia, Cuba, Dominican Republic, Mexico, Peru, Puerto Rico, Uruguay

Europe:

Azores, Italy, Spain, greenhouse in England, Germany

USSR:

Georgia; greenhouse in Leningrad

Africa:

Algeria, Canary Is., Madagascar, Madeira Is., Mozambique, South Africa, Tanzania

Asia:

China, Israel, Japan, Syria, Turkey

Other Areas:

Hawaii, Yap Is.

HOSTS:

Polyphagous

AULACASPIS

rosae
(Bouche)

Aspidiotus rosae Bouche

DISTRIBUTION:

General distribution in conterminous U.S.

New World:

Argentina, Brazil, Canada, Chile, Colombia, Costa Rica, Dominican Republic, Guatemala, El Salvador, Jamaica, Peru, Puerto Rico, Venezuela

Europe:

Many countries; Azores

USSR

Africa:

North Africa, Canary Is., Cape Verde, Madeira Is., South Africa, Tanzania, Zaire

Asia:

China, India, Iran, Iraq, Israel, Japan, Korea, Phillipines, Taiwan, Turkey

Other Areas:

Australia, Bonin Is., New Caledonia, New Zealand

HOSTS:

Rosa, Rubus, other Rosaceae.

CARULASPIS

juniperi
(Bouche)

Aspidiotus juniperi Bouche; Diaspis carueli (Targioni-Tozzetti), Carulaspis carueli (Targioni-Tozzetti), Diaspis visci (Schrank), Carulaspis visci (Schrank)
(misidentifications)

DISTRIBUTION:

AR, CA, CT, DC, DE, FL, GA, IN, ID, KS, KY, MA, MI, MD, MO, NC, NJ, NY, OH, OK, OR, PA, RI, SC, TN, TX, UT, VA, WA

New World:

Argentina, Brazil, Canada, Chile

Europe:

Many countries; Azores

USSR:

Crimea, north Caucasus, Turkmen SSR, Uzbek SSR

Africa:

Algeria, Canary Is., Egypt?, Madeira Is., Morocco

Asia:

Iran, Turkey

Other Areas:

Australia, New Zealand

HOSTS:

Biota, Callistris, Chamaecyparis, Cryptomeria,
Cupressocyparis, Cupressus, Juniperus, Libocedrus,
Sequoia, Taxodium, Thuja

minima
(Targioni-Tozzetti)

Diaspis minima Targioni-Tozzetti; Carulaspis carueli
(Targioni-Tozzetti)

DISTRIBUTION:

CA, FL, GA, KS, LA, MO, NC, NM, OK, PA, TN, TX, UT, VA, WA

New World:

Argentina, Bermuda, Chile, Colombia, Cuba, Mexico, Uruguay

Europe:

Azores, Austria, England, France, Greece, Italy, Portugal, Romania, Spain, Sweden

USSR:

Armenia, Crimea, Krasnodar Territory, Transcaucasus, Ukraine

Africa:

Algeria, Ethiopia, Guinea, Madeira Is., Morocco, South

Africa

Asia:

Iran, Israel, Jordan

Other Areas:

Hawaii

HOSTS:
Callistris, Chaemacyparis, Cryptomeria, Cupressus,
Juniperus, Sequoia, Thuja

CHIONASPIS

acericola
Hollinger

DISTRIBUTION:
MD, MO, OH, PA, TX

HOSTS:
Acer, A. saccharinum, A. saccharum

americana
Johnson

Fundaspis americana (Johnson)

DISTRIBUTION:
AL, CA, CO, CT, DC, DE, FL, GA, IA, IL, IN, KS, LA, MA,
MD, MO, MI, MN, MS, NC, NE, NJ, OH, OK, PA, SC, SD, RI,
TN, TX, VA, WI, WV

HOSTS:
Polyphagous - often found in Ulmus

caryae
Cooley

DISTRIBUTION:
CT, DC, FL, IA, IN, KS, MO, NC, OH, PA

HOSTS:
Carya, Juglans nigra

corni
Cooley

DISTRIBUTION:
CA, ID, IL, KS, LA, MA, MD, MI, MS, NJ, NY, OH, PA, UT, WI
New World:
Canada (Ontario)

HOSTS:
Cornus

etrusca
Leonardi

DISTRIBUTION:
AZ, CA, TX
New World:
Mexico
Europe:
France, Italy, Spain

Africa:
Algeria, Canary Is., Egypt, Mauritania, Morocco, Tunisia
Asia:
Turkey

HOSTS:
Tamarix

floridensis
Takagi

DISTRIBUTION:
FL

HOSTS:
Fraxinus

furfura
(Fitch)

Aspidiotus furfurus Fitch

DISTRIBUTION:
General distribution in conterminous U.S.
New World:
Canada

HOSTS:
Crataegus, Cydonia, Malus, Prunus, Pyracantha, Sorbus,
other Rosaceae

gleditsiae
Sanders

Phenacaspis spinicola Dietz & Morrison

DISTRIBUTION:
FL, IL, IN, KS, LA, ME, MD, MO, MS, OH, PA, TN, TX;
(CA eradicated)

HOSTS:
Gleditsia triacanthos

heterophyllae
Cooley

Chionaspis pinifoliae heterophyllae Cooley; Phenacaspis heterophyllae (Cooley)

DISTRIBUTION:
AL, CT, DC, DE, FL, GA, LA, MA, MD, MO, MS, NC, NJ, NY,
OH, PA, RI, SC, TN, TX, VA
New World:
Bahamas, Mexico

HOSTS:
Pinus

kosztarabi
Takagi

DISTRIBUTION:
GA, MD, NC, OH, PA, SC, TN, VA

HOSTS:
Fraxinus, Ostrya virginiana

lintneri
Comstock

Chionaspis lintneri betulae Cooley

DISTRIBUTION:
CT, DC, FL, IA, MA, ME, MI, NH, NY, OH, PA, TX, VT
New World:
Canada (Ontario, Quebec, Prince Edward Is.)

HOSTS:
Alnus, Amelanchier, Betula, Cornus, Corylus, Juglans,
Viburnum

longiloba
Cooley

DISTRIBUTION:
AR, FL, IA, KS, LA, MI, MO, MS, NE, OH, TX
New World:
Mexico

HOSTS:
Populus, Salix

nyssae
Comstock

Phenacaspis nyssae (Comstock); Chionaspis sylvatica
Sanders; Fundaspis sylvatica (Sanders)

DISTRIBUTION:
AL, AR, DC, CT, FL, GA, IN, MD, MO, NC, NJ, NY, OH, PA,
SC, TN, TX, VA, WV

HOSTS:
Celtis occidentalis, Lindera benzoin, Nyssa sylvatica,
Quercus, Symplocos tinctoria

ortholobis
Comstock

DISTRIBUTION:
CA, ID, MT, NV, OR, WA
New World:
Canada (British Columbia)

HOSTS:
Alnus, Ceanothus, Rhamnus purshiana

parkii
Hottinger

Chionaspis platani Cooley; Phenacaspis platani (Cooley);
Phenacaspis occidentalis Kosztarab

DISTRIBUTION:
IN, KS, LA, MO, OH, TX, VA

HOSTS:
Platanus

pinifoliae
(Fitch)

Aspidiotus pinifoliae Fitch; Phenacaspis pinifoliae
(Fitch)

DISTRIBUTION:
General distribution in conterminous U.S.
New World:
Canada, Cuba, El Salvador, Honduras, Mexico
Europe:
England

HOSTS:
Abies, Picea, Pinus, Pseudotsuga, Tsuga

salicisnigrae
(Walsh)

Aspidiotus salicis-nigrae Walsh

DISTRIBUTION:
AL, AR, CA, CO, FL, IA, ID, IL, IN, KS, LA, MA, MI, MN,
MO, MS, MT, NC, ND, NE, NJ, NM, NY, OH, OK, PA, SD, TN,
TX, WI, WY
New World:
Canada
Asia:
Japan

HOSTS:
Amelanchier, Cornus, Fraxinus, Liriodendron, Populus,
Salix

sassceri
Cockerell &
Robbins

DISTRIBUTION:
CA, CO

HOSTS:
Ceanothus

triformis
Tippins &
Beshear

Chionaspis betulae Tippins & Beshear

DISTRIBUTION:
FL, GA

HOSTS:
Betula

wistariae
Cooley

Phenacaspis fugicola Kuwana

DISTRIBUTION:
CA (1 localized infestation), PA
Asia:
Japan

HOSTS:
Wistaria

CHORTINASPIS

consolidata
Ferris

DISTRIBUTION:
AZ, CA

HOSTS:
Hilaria rigida

cottami
McDaniel

DISTRIBUTION:
TX

HOSTS:
Stenotaphrum secundatum

divaricata
Ferris

DISTRIBUTION:
FL, GA

HOSTS:
Aristida, Eleusine indica

frankliniana
Ferris

DISTRIBUTION:
TX

HOSTS:
Hilaria cenchroides

graminella
(Cockerell)

Aspidiotus graminellus Cockerell; Targionia graminella
(Cockerell)

DISTRIBUTION:
AZ, CO, FL, GA, NM, TX

HOSTS:
Bouteloua, Monanthochloe, Poaceae

subhortina
(Laing)

Aspidiotus subhortinus Laing

DISTRIBUTION:
AZ, FL, MS, TX
New World:
Bahamas, Colombia, Jamaica, Mexico, Panama, Peru
Other Areas:
Hawaii

HOSTS:
Andropogon, bromeliad, Eremochloa ophiuroides, Musa paradisiaca sapietum, Panicum, Saccharum officinarum, Stenotaphrum secundatum, grasses

CHRYSOMPHALUS

aonidum
(Linnaeus)

Coccus aonidum Linnaeus; Chrysomphalus ficus Ashmead;
Aspidiotus ficus (Ashmead)

DISTRIBUTION:
Most States; greenhouse in colder areas. Widespread
in tropical and subtropical areas of the world

HOSTS:
Polyphagous

bifasciculatus
Ferris

DISTRIBUTION:
AL, CA, DE, GA, LA, MD, NC, NJ, OK, SC, TX, VA
New World:
Mexico
Asia:
China, Japan, Korea, Taiwan
USSR:
Greenhouse
Other Areas:
Hawaii

HOSTS:
Polyphagous

dictyospermi
(Morgan)

Aspidiotus dictyospermi Morgan

DISTRIBUTION:

AL, AZ, CA, CO*, CT*, DC*, FL, GA, IL*, IN*, KS*, LA, MA, MD, MI, MN*, MO*, MS, NC*, NH*, NJ, NM*, NY*, OH, PA, RI*, SC, TN*, TX, UT, VA, WV*. Widespread throughout the tropical and subtropical areas of the world; greenhouse in temperate areas

HOSTS:
Polyphagous

CIRCULASPIS

bibursa
Ferris

DISTRIBUTION:
TX

HOSTS:
Triodia pilosa

fistulata
(Ferris)

Odonaspis fistulata Ferris

DISTRIBUTION:
TX
New World:
Mexico

HOSTS:
Distichilis spicata, Sporobolus

CLAVASPIS

barbigera
Ferris

DISTRIBUTION:
FL
New World:
Trinidad

HOSTS:
Bursera simaruba?, Manilkara zapota

coursetiae
(Marlatt)

Aspidiotus (Diaspidiotus) coursetiae Marlatt; Aspidiotus coursetiae Marlatt; Diaspidiotus coursetiae (Marlatt)

DISTRIBUTION:
AZ, FL, TX
New World:
Mexico, Panama

HOSTS:
Polyphagous

covilleae
(Ferris)

Aspidiotus covilleae Ferris

DISTRIBUTION:
AZ, CA, NM, TX
New World:
Mexico

HOSTS:
Acacia, Echinocereus, Euonymus, Forchammeria, Larrea,
Lycium, Olea, Plumeria, Prosopis pubescens

crypta
Howell &
Tippins

DISTRIBUTION:
GA

HOSTS:
Carya illinoensis

diclusa
Ferris

DISTRIBUTION:
CA

HOSTS:
Juglans regia

herculeana
(Doane &
Hadden)

Aspidiotus herculeanus Doane & Hadden; Aspidiotus
subsimplis var. anonae Houser; Clavaspis subsimplis var.
anonae (Houser); Chrysomphalus herculeanus (Doane &
Hadden)

DISTRIBUTION:
FL, TX
New World:
Mexico, many Caribbean Islands, most Central American and
South American countries
Africa:
Guinea, Kenya, Madagascar, Malawi, Mauritius, Mozambique,
Rhodesia
Asia:
Philippines, Singapore

Other Areas:
Australia, Fiji, Hawaii, New Caledonia, Society Is.
(Tahiti)

HOSTS:
Polyphagous

mori
(Herrick)

Aspidiotus mori Herrick; Diaspidiotus mori (Herrick)

DISTRIBUTION:
TX

HOSTS:
Morus alba, M. rubra

pedilanthi
(Ferris)

Aspidiotus pedilanthi Ferris

DISTRIBUTION:
TX

HOSTS:
Franseria, Horsfordia, Lycium?, Pedilanthus macrocarpus,
Populus, Quercus

subsimilis
(Cockerell)

Aspidiotus subsimilis Cockerell; Hendaspidiotus subsimilis
(Cockerell); Aonidiella subsimilis (Cockerell)

DISTRIBUTION:
TX

New World:
Guatemala, Mexico

HOSTS:
Acacia constricta, Diospyros texana, Jatropha spathulata,
Persea, Prosopis, Ptelea tomentosa

texana
Ferris

DISTRIBUTION:
TX

HOSTS:
Diospyros texana, Ficus, Morus, Persea, Ziziphus lycioides

ulmi
(Johnson)

Aspidiotus ulmi Johnson; Aonidiella ulmi (Johnson);
Hendaspidiotus ulmi (Johnson)

DISTRIBUTION:
CA, CO, CT, DC, GA, IL, IN, KS, LA, MD, MO, MS, NJ, NY,
OH, SC, TX, WI, WV, VA
New World:
Canada

HOSTS:
Acer, Aesculus, Catalpa, Celtis, Cornus, Euonymus,
Juglans nigra, Robinia, Tilia, Ulmus

COMSTOCKIELLA

sabalis
(Comstock)

Aspidiotus sabalis Comstock; Comstockiella sabalis var.
mexicana Cockerell

DISTRIBUTION:
CA, GA, FL, LA, MS, NC, SC, TX; greenhouse in NJ*, OH*
New World:
Bahamas, Bermuda, Cuba, Dominican Republic, Guadeloupe,
Mexico
Europe:
Germany (greenhouse)

HOSTS:
Arecastrum romanzoffianum, Citrus, Cocos nucifera, Erythea
edulis, Latania commersoni, Livistona chinensis, Phoenix
dactylifera, Sabal, Serenoa repens, Washingtonia robusta

CRASSASPIS

multipora
(Ferris)

Pseudodiaspis multipora Ferris; Situlaspis multipora
(Ferris)

DISTRIBUTION:
AZ, CA
New World:
Mexico

HOSTS:
Phoradendron flavescens, Prosopis grandulosa

CRENULASPIDIOTUS

mini
Davidson

DISTRIBUTION:
AZ

HOSTS:
Prosopis

CUPIDASPIS

beshearae
Howell &
Tippins

DISTRIBUTION:
AZ, CA, CO, UT

HOSTS:
Calocedrus, Cupressus, Juniperus, Libocedrus

cupressi
(Coleman)

Leucaspis cupressi Coleman; Lineaspis cupressi (Coleman)

DISTRIBUTION:
CA, CO, NM, OR, TX, UT

HOSTS:
Cupressus, Juniperus, Libocedrus decurrens

DACTYLASPIS

lobata
Ferris

DISTRIBUTION:
TX
New World:
Panama

HOSTS:
Celtis mississippiensis, Erythrina

DIASPIDIOTUS

aesculi
(Johnson)

Aspidiotus aesculi Johnson

DISTRIBUTION:
AZ, CA, CO, ID, MT, ND, NM, NV, OR, TX, UT, WA
New World:
Canada (British Columbia, Ontario), Mexico

HOSTS:
Acer, Adelia, Aesculus, Alnus, Arbutus, Fraxinus,
Juglans, Populus, Salix

ancylus
(Putnam)

Diaspis ancylus Putnam; Aspidiotus ancylus (Putnam);

Aspidiotus solus Hunter; Aspidiotus ohioensis York;
Aspidiotus oxycratagei Hollinger

DISTRIBUTION:

General distribution in conterminous U.S.

New World:

Brazil, Canada, Chile, Mexico

Africa:

South Africa

Other Areas:

Australia

HOSTS:

Polyphagous

bumeliae
Ferris

DISTRIBUTION:

KS, OK, TX

New World:

Mexico

HOSTS:

Bumelia lanuginosa, Crataegus, Maclura aurantiaca

caryae
Kosztarab

DISTRIBUTION:

GA, OH

HOSTS:

Carya

coniferarum
(CockereTT)

Aspidiotus (Diaspidiotus) coniferarum Cockerell;
Comstockiaspis coniferarum (CockereTT)

DISTRIBUTION:

AZ, CA, CO, FL, GA, IN, KS, LA, MS, NM, OR, SC, TX, VA

New World:

Mexico

HOSTS:

Abies, Cupressus, Juniperus, Libocedrus decurrens, Pinus ponderosa var. scopulorum

crystallinus
Ferris

DISTRIBUTION:

TX

HOSTS:

Ironwood

ehrhorni
(Coleman)

Aspidiotus ehrhorni Coleman

DISTRIBUTION:

CA, CO, WA

HOSTS:

Abies concolor, Larix, Libocedrus decurrens, Picea, Pinus,
Pseudotsuga taxifolia

liquidambaris
(Kotinsky)

Cryptophyllaspis liquidambaris Kotinsky; Chemaspidotus
liquidambaris (Kotinsky)

DISTRIBUTION:

AL, CA, CT, DC, DE, FL, GA, IL, IN, LA, MD, MO, MS, NC,
NJ, NY, OH, OK, PA, SC, TN, TX, VA

HOSTS:

Liquidamber styraciflua

mccombi
McKenzie

DISTRIBUTION:

AL, DC, FL, GA, LA, MD, MS, NC, PA, SC, VA

HOSTS:

Pinus

osborni
(Newell &
Cockerell)

Aspidiotus osborni Newell & Cockerell; Aspidiotus
yulupae Bremner

DISTRIBUTION:

AL, CA, CT, DC, DE, FL, GA, IA, IL, IN, KS, KY, LA, MA,
MD, MI, MO, MS, NC, NH, NJ, NY, NM, OH, OK, PA, SC, TN,
TX, VA, VT, WI, WV

New World:

Canada, Mexico

Africa:

South Africa

HOSTS:

Often on Quercus. Also Betula, Castanea, Caprinus, Fagus,
Fraxinus, Robinia, Tilia, other hosts

piceus
(Sanders)

Aspidiotus piceus Sanders, Diaspidiotus hunteri (Newell)
of Ferris

DISTRIBUTION:
MO, OH, TN

HOSTS:
Fraxinus, Liriodendron tulipifera, Sassafras

uvae
(Comstock)

Aspidiotus uvae Comstock

DISTRIBUTION:
AL, AR, CA, CT, DC, DE, FL, GA, IL, IN, KS, KY, MD, MO,
MS, NC, NJ, NY, OH, PA, TN, TX, VA, WV

New World:

Brazil

Africa:

Canary Is.

Europe:

Spain

HOSTS:

Vitis

DIASPIS

boisduvalii
Signoret

Aulacaspis boisduvalii (Signoret)

DISTRIBUTION:
Reported from most States; greenhouse in colder areas.
Widely distributed throughout the world; greenhouse in
temperate areas

HOSTS:

Orchid, palms, other hosts

bromeliae
(Kerner)

Coccus bromeliae Kerner; Aulacaspis bromeliae (Kerner)

DISTRIBUTION:

CA, DC*, FL, IL*, MO, NJ, NY*, OH*, PA*: greenhouse in
colder areas

New World:

Antigua, Argentina, Bahamas, Brazil, Belize, Colombia,
Cuba, Costa Rica, Dominica, Dominican Republic,

Guadeloupe, Guatemala, Guyana, Haiti, Jamaica, Martinique,
Mexico, Puerto Rico, St. Lucia, St. Vincent, Trinidad,
Venezuela

Europe:

Azores; greenhouse in Belgium, Czechoslovakia, England,
Denmark, France, Germany, Hungary, Italy, Netherlands,

Poland, Sweden

USSR:

Greenhouse

Africa:

Egypt, Kenya, Madeira Is., Mauritius, Morocco, Mozambique, Seychelles, South Africa, Sierra Leone

Asia:

Okinawa, Philippines, Taiwan

Other Areas:

Australia, Bonin Is., Fiji, Hawaii, New Caledonia, Pitcairin Is., Ponape, Samoa, Tahiti

HOSTS:

Ananas comosus, bromeliads

coccois
Lichtenstein

Diaspis tentaculatus Morgan; Aulacaspis coccois (Lichtenstein); Diaspis coccois (Lichtenstein)

DISTRIBUTION:

CA; (FL eradicated)

New World:

Jamaica

Europe:

France

Africa:

Algeria

HOSTS:

Cocos nucifera, orchid

dignus
Hoke

DISTRIBUTION:

FL, GA, MS

HOSTS:

Eryngium aquaticum, E. aromaticum, Liriope spicata

diospyri
Ferris

DISTRIBUTION:

TX

HOSTS:

Diospyros texana

echinocacti
(Bouche)

Aspidiotus echinocacti Bouche; Diaspis calyptroides Costa; Diaspis cacti Comstock; Diaspis opuntiae Cockerell; Diaspis opunticola Newstead

DISTRIBUTION:

Reported from most States; greenhouse in temperate areas

New World:

Widely distributed

Europe:

Greenhouse or out of doors in Mediterranean region; Azores

USSR:

Greenhouse

Africa:

Algeria, Cameroon, Canary Is., Egypt, Guinea, Madagascar, Madeira Is., Mauritius, Morocco, Mozambique, Reunion, Senegal, South Africa, St. Helena

Asia:

India, Iran, Iraq, Israel, Japan, Pakistan, Philippines, Syria, Turkey

Other Areas:

Australia, Hawaii

HOSTS:

Cactaceae

gilloglyi
(McKenzie)**

DISTRIBUTION:

(CA eradicated)

New World:

Belize, Guatemala, Jamaica, Mexico

HOSTS:

Bromeliad, Tillandsia

manzanitae
(Whitney)

Aulacaspis manzanitae Whitney

DISTRIBUTION:

CA

HOSTS:

Arctostaphylos

parasiti
McKenzie

DISTRIBUTION:

CA

HOSTS:

Phoradendron flavescens

radicicola
Ferris

DISTRIBUTION:

TX

New World:

Mexico

Africa:

Algeria

HOSTS:

Opuntia, roots of unknown plant

simmondsiae

Ferris

DISTRIBUTION:

AZ

New World:

Mexico

HOSTS:

Idria, Simmondsia

texensis

(Cockere11)

Aulacaspis texensis Cockere11

DISTRIBUTION:

TX

New World:

Mexico

HOSTS:

Castela nicholsoni, Koeberlinia spinosa, mistletoe, sapote, Sophora secundiflora, Wistaria, other hosts

toumeyii

Cockere11

DISTRIBUTION:

AZ, TX

New World:

Mexico

HOSTS:

Holacantha emoryi, Koeberlinia spinosa

DUPLASPIDIOTUS

claviger

(Cockere11)

Pseudaonidia clavigera Cockere11

DISTRIBUTION:

FL

New World:

Panama

Africa:

Seychelles, South Africa

Asia:
China, Indonesia, Japan, Sri Lanka, Taiwan
Other Areas:
Guam, Hawaii, Tahiti

HOSTS:
Polyphagous

tesseratus
(Grandpre &
Charmoy)

Aspidiotus (Diaspidiotus) tesseratus Grandpre &
Charmoy; Lattaspidotus tesseratus (de Charmoy);
Pseudaonidia tesserata (de Charmoy)

DISTRIBUTION:

FL

New World:

Caribbean Islands, Bahamas, Brazil, Colombia, Ecuador, El
Salvador, Guatemala, Guyana, Mexico, Nicaragua, Panama,
Venezuela

Africa:

Ghana, Kenya, Liberia, Mauritius, Mozambique, Rhodesia,
Rodrigues, South Africa, Uganda

Asia:

India, Indonesia (Java), Pakistan, Sri Lanka

Other Areas:

Guam, Hawaii

HOSTS:

Polyphagous

DYNASPIDIOTUS

britannicus
(Newstead)

Aspidiotus britannicus Newstead

DISTRIBUTION:

CA, IL*, IN*, MA*, MI*, OR, PA*, WA

New World:

Bermuda, Brazil, Canada (British Columbia)

Europe:

Many countries

USSR:

Crimea, Black Sea coast, Caucasus; greenhouse

Africa:

Algeria, Egypt, Madeira Is., Morocco

Asia:

Israel, Turkey

HOSTS:

Polyphagous, often on Buxus, Hedera, Ilex, Laurus

EPIDIASPIS

leperii
(Signoret)

Diaspis leperii Signoret; Diaspis pyri Colvee; Diaspis
piricola Del Guercio; Epidiaspis piricola (Del Guercio)

DISTRIBUTION:

CA, CT, MD, MT, NY, OK*, PA*, RI

New World:

Argentina, Chile, Mexico, Uruguay

Europe:

Central and southern regions; Azores

USSR:

Southern European region

Africa:

Algeria, Madeira Is., Morocco, Tunisia

Asia:

Iran, Turkey

HOSTS:

Malus, Prunus, Pyrus, Rosaceae and other hosts

montana
(Cockerell)

Aulacaspis montana Cockerell: Diaspis montana (Cockerell)

DISTRIBUTION:

AZ, NM

HOSTS:

Quercus

salicicola
Ferris

DISTRIBUTION:

AZ, CA

HOSTS:

Phoradendron californicum, Salix

tillandsiae
Takagi &
Tippins

DISTRIBUTION:

FL

HOSTS:

Tillandsia usneoides

EXUVIASPIS

enceliae
Ferris

DISTRIBUTION:

CA

New World:
Mexico

HOSTS:
Encelia

FERRISIDEA

magna
(Ferris)

Pseudodiaspis magna Ferris

DISTRIBUTION:
CA, TX
New World:
Mexico

HOSTS:
Lycium

FIORINIA

externa
Ferris

DISTRIBUTION:
CT, DC, MA, MD, NJ, NY, OH, PA, RI, VA
Asia:
Japan

HOSTS:
Abies, Cedrus, Pinus, Pseudotsuga, Taxus, Tsuga

fioriniae
(Targioni-
Tozzetti)

Diaspis fioriniae Targioni- Tozzetti; Fiorinia pellucida
Targioni-Tozzetti; Uhlaria fioriniae (Targioni-
Tozzetti); Uhlaria camelliae Comstock; Fiorinia camelliae
(Comstock)

DISTRIBUTION:
CA, CT*, DC*, FL, GA, IL*, MA*, MS*, OH*, OK, PA*, SC*,
TX; greenhouse in colder areas
New World:
Argentina, Barbados, Bermuda, Brazil, Costa Rica, Cuba,
Dominican Republic, Jamaica, Mexico, Nevis, Peru, Puerto
Rico, Trinidad
Europe:
Azores, Italy, Malta, Spain; greenhouse in England,
France, Germany, Ireland, Monaco, Romania
USSR:
Greenhouse in European part
Africa:
Algeria, Canary Is., Egypt, Madeira Is., Mauritius,

Madagascar, Morocco, Mozambique, South Africa, Tanzania.

Asia:

China, India, Israel, Japan, Malay Peninsula, Philippines,
Sri Lanka, Taiwan, Turkey

Other Areas:

Australia, Bonin Is., Canton Is., Hawaii, New Caledonia

HOSTS:

Polyphagous

japonica
Kuwana

Fiorinia fioriniae var. japonica Kuwana

DISTRIBUTION:

VA; (CA eradicated)

Asia:

China, India, Japan, Philippines, Sri Lanka, Taiwan

Other Areas:

Bonin Is., Mauritius

HOSTS:

Abies, Cedrus, Juniperus, Keteleeria, Picea, Pinus,
Podocarpus, Taxus, Tsuga

pinicola
Maskell

Fiorinia juniperi Leonardi

DISTRIBUTION:

GA (Cumberland Is.); (CA eradicated)

Asia:

Hong Kong, Japan, Taiwan

Europe:

Portugal

Other Areas:

Bonin Is.

HOSTS:

Acuba, Cephalotaxus, Cupressus, Eurya, Ficus, Myrica,
Pinus, Pittosporum, Podocarpus, Sciadopitys, Thea, Torreya

theae
Green

DISTRIBUTION:

AL, AR, DC, FL, GA, IN, LA, MA, MD, MO, MS, NC, NY, OK,
PA, SC, TX, VA; (CA eradicated)

New World:

Bahamas, Honduras, Mexico

Asia:

China, Hong Kong, India, Indonesia, Japan, Sri Lanka,
Taiwan

HOSTS:
Camellia, Citrus, Eurya, Ilex, Thea, other hosts

FISSURASPIS

ulmi
(Hoke)

Crythemichionaspis ulmi Hoke

DISTRIBUTION:
FL, GA, MS, TN, TX

HOSTS:
Ulmus, U. americana

FURCASPIS

biformis
(Cockerell)

Aspidiotus biformis Cockerell; Chrysomphalus biformis
(Cockerell)

DISTRIBUTION:
CO*, DC*, FL, NJ*, WA*
New World:
Mexico, most of Central and South America, many Caribbean
Islands
Europe:
Germany (greenhouse)
Asia:
Indonesia, Malaya, Philippines, Singapore, Sri Lanka,
Thailand
Other Areas:
Australia, Hawaii

HOSTS:
Agave, orchid, Pedilanthus tithymaloides,
Philodendron

FURCHADASPIS

zamia
(Morgan)

Diaspis zamiae Morgan; Aulacaspis zamiae (Morgan);
Furchadiaspis zamiae (Morgan)

DISTRIBUTION:
CA; greenhouse in MA*, MD*, MO*, NY, PA, WI*
New World:
Argentina, Bermuda, Chile, Guatemala
Europe:
Azores, France, Italy, Portugal, Spain; greenhouse in

Czechoslovakia, Denmark, Germany, Great Britain, Poland,
Sweden
USSR:
Greenhouse
Africa:
Algeria, Canary Is., Cameroon, Egypt, Madeira Is.,
Morocco, Mozambique, South Africa, Rhodesia, Swaziland
Asia:
Turkey
Other Areas:
Australia, Hawaii

HOSTS:
Ceratozamia mexicana, Cussonia spicata, Cycadaceae, Cycas
revoluta, Dioon edule, Encephalartos villosus, Rhus,
Strelitzia

GENAPARLATORIA

pseudaspidiotus
(Lindinger)

Parlatoria pseudaspidiotus Lindinger; Parlatoria
mangiferae Marlatt

DISTRIBUTION:
FL; greenhouse in DC*, CO*, TN
New World:
Barbados, Colombia, Costa Rica, Guyana, Jamaica, Panama,
Puerto Rico, Surinam, Trinidad
Europe:
Greenhouse in England, Germany
Africa:
Sudan
Asia:
Burma, India, Indonesia, Japan, Malaya, Pakistan,
Philippines, Singapore, Sri Lanka, Thailand, Vietnam
Other Areas:
Bonin Is., Guam, Hawaii, Ponape, Samoa

HOSTS:
Dendrobium, Mangifera indica, Orchidaceae, Plumeria,
Vanda

GEODIAPIS

arundinariae
Tippins &
Howell

DISTRIBUTION:
GA

HOSTS:
Arundinaria

GYMNASPIS

aechmeae
Newstead

DISTRIBUTION:
AL, FL; greenhouse in DC, MD, NJ, MO*, NY*, PA*
New World:
Argentina, Brazil, Costa Rica, Jamaica, Puerto Rico
Europe:
Greenhouse in Belgium, Bulgaria, England, France, Germany,
Italy, Poland, Romania, Sweden
USSR:
Greenhouse
Asia:
Japan+

HOSTS:
Bromeliaceae, other hosts

HALIASPIS - 1

asymmetrica
(Ferris)

Duplachionaspis asymmetrica Ferris

DISTRIBUTION:
FL, SC

HOSTS:
Aristida

littoralis
(Ferris)

Duplachionaspis littoralis Ferris

DISTRIBUTION:
TX

HOSTS:
Monanthocloe littoralis, Sporobolus wrightii

mackenziei
(McDaniel)

Duplachionaspis mackenziei McDaniel

DISTRIBUTION:
TX

HOSTS:
Monanthocloe littoralis

peninsularis
Howell

DISTRIBUTION:
FL

HOSTS:
Distichilis, Spartina spartinae

spartinae
(Comstock)

Chionaspis spartinae Comstock; Duplachionaspis spartinae (Comstock)

DISTRIBUTION:
CA, DE, FL, GA, MA, NJ, NY, SC, TX, VA

HOSTS:
Distichilis, Spartina

uniolae
Takagi

DISTRIBUTION:
FL, GA, LA

HOSTS:
Spartina, Uniola, grass

HEMIBERLESIA

candidula
(Cockerell)

Aspidiotus (Hemiberlesia) candidulus Cockerell;
Diaspidiotus candidulus (Cockerell)

DISTRIBUTION:
AZ, CA
New World:
Mexico

HOSTS:
Prosopis velutina, Phoradendron, Yucca

diffinis
(Newstead)

Aspidiotus diffinis Newstead; Aspidiotus jatrophae
Townsend & Cockerell; Aspidiotus diffinis parrotti
Newell

DISTRIBUTION:
AL, AR, DC, FL, GA, IL, KS, LA, MD, MO, MS, NC, NJ, NY,
OH, SC, TN, TX, VA
New World:
Argentina, Brazil, Canada, Colombia, Costa Rica, Curacao,
Dominica, Ecuador, Guyana, Jamaica, Mexico, Nicaragua,
Panama, St. Kitts, Trinidad

HOSTS:
Polyphagous

lataniae
(Signoret)

Aspidiotus lataniae Signoret; Aspidiotus cydoniae
Comstock; Aspidiotus punicae Cockerell

DISTRIBUTION:

AL, AR, AZ, CA, CO, DC, DE, FL, GA, IA, IL, IN*, KS, LA,
MA, MD, MI*, MO, MS, NC, NJ, NY, OH, OK, PA, SC, TN, TX,
VA; greenhouse in northern states. Widespread throughout
the tropical and subtropical areas of the world; green-
house in temperate areas

HOSTS:

Polyphagous

palmae
(Cockerell)

Aspidiotus palmae Cockerell; Abgrallaspis palmae
(Cockerell); Furcaspis palmae (Cockerell); Borchseniaspis
palmae (Cockerell)

DISTRIBUTION:

FL, (CA Eradicated)

New World:

Antigua, Bolivia, Brazil, Central America, Chile, Col-
ombia, Cuba, Dominica, Ecuador, Guyana, Jamaica, Mexico,
Peru, Puerto Rico, St. Kitts, St. Lucia, Surinam, Trinidad

Europe:

Greenhouse in Belgium, England, Germany, Netherlands,
Poland, Portugal

USSR:

Greenhouse

Africa:

Ghana, Guinea, Kenya, Madeira Is., Principe, Sao Tome,
Seychelles, South Africa, Tanzania, Togo, Zaire, Zanzibar.

Asia:

China, Cyprus, India, Indonesia, Malaysia, Philippines,
Singapore, Sri Lanka, Thailand, Vietnam

Other Areas:

Australia, Fiji, Guam, Kusaie, New Guinea, Palau Is.
Ponape, Saipan, Solomon Is., Tonga, Wotje Atoll, Yap Is.

HOSTS:

Polyphagous

popularum
(Marlatt)

Aspidiotus (Hemiberlesia) popularum Marlatt

DISTRIBUTION:

AZ, CA, ID, MT, NM, UT, TX

New World:

Canada (Alberta), Mexico

HOSTS:
Malus, mistletoe, Populus, Salix

pseudorapax
McKenzie

DISTRIBUTION:
AZ

HOSTS:
Abies

rapax
(Comstock)

Aspidiotus rapax Comstock; Aspidiotus camelliae Signoret;
Hemiberlesia camelliae (Signoret)

DISTRIBUTION:
AL, CA, DC, FL, GA, ID, IN, IL, LA, MD, MI, MS, NJ, NY,
OH, OR, PA, SC, TX, VA, WA
New World:
Argentina, Brazil, Bolivia, Chile, Colombia, Costa Rica,
Cuba, Ecuador, Guyana, Guatemala, Mexico, Peru, Puerto
Rico, Uruguay
Europe:
Many countries; Azores
USSR:
Armenia, Georgia
Africa:
Algeria, Canary Is., Egypt, Kenya, Madagascar, Madeira
Is., Malawi, Mauritius, Morocco, Reunion, Rhodesia, South
Africa, Tanzania
Asia:
China, India, Iran, Israel, Japan, Philippines, Okinawa,
Sri Lanka, Syria, Taiwan
Other Areas:
Australia, Bonin Is., Christmas Is., Hawaii, New Zealand

HOSTS:
Polyphagous

HEMIGYMNASPIS

jessopae
Davidson &
Miller

DISTRIBUTION:
FL

HOSTS:
Eugenia simpsonii

HOWARDIA

biclavis
(Comstock)

Chionaspis? biclavis Comstock

DISTRIBUTION:

FL; greenhouse in DC*, KS*, MD, NY*, OH*, PA, MO; (CA eradicated)

New World:

Bahamas, Bermuda, Brazil, Central America, Caribbean Islands, Colombia, Ecuador, French Guiana, Galapagos Is., Guyana, Mexico, Peru, Venezuela

Europe:

Greenhouse in Czechoslovakia, England, France, Germany, Ireland, Italy, Poland, Switzerland

USSR:

Greenhouse

Africa:

Ghana, Kenya, Madagascar, Madeira Is., Malawi, Mauritius, Rhodesia, Rodrigues, South Africa, Sao Tome

Asia:

India, Indonesia, Philippines, Singapore, Sri Lanka, Taiwan

Other Areas:

Australia, Bonin Is., Fiji, Hawaii, New Caledonia, New Guinea, Palau Is., Truk Is.

HOSTS:

Polyphagous

ISCHNASPIS

longirostris
(Signoret)

Mytilaspis longirostris Signoret; Ischnaspis filiformis
Douglas

DISTRIBUTION:

CT*, DC, FL, GA, IL*, LA, MA*, MD, MO, NJ, NY, OH, OK, PA, TN, WI*; greenhouse in colder areas

New World:

Bahamas, Bermuda, Canada (greenhouse), Caribbean Islands, Central America, Brazil, Colombia, Ecuador, Guyana, Mexico, Surinam, Venezuela

Europe:

Italy; greenhouse in Czechoslovakia, England, France, Denmark, Germany, Ireland, Sweden

USSR:

Greenhouse

Africa:

Cameroon, Canary Is., Egypt, Ethiopia, Ghana, Guinea,

Kenya, Madagascar, Mauritius, Mozambique, Nigeria, Principe, Reunion, Rhodesia, Sao Tome, Seychelles, Sierra Leone, South Africa, Tanzania, Uganda, Zaire

Asia:

India, Indonesia, Japan, Malaysia, Philippines, Singapore, Sri Lanka

Other Areas:

Australia, Bonin Is., Fiji, Hawaii, Mariana Is., New Caledonia, New Guinea, Palau Is., Solomon Is., Tonga

HOSTS:

Polyphagous

KUWANASPIS

hikosani
(Kuwana)

Chionaspis? hikosani Kuwana; Tsukushiaspis hikosani
(Kuwana)

DISTRIBUTION:

GA, SC: greenhouse in NY*

Asia:

Japan

HOSTS:

bamboo, Phyllostachys bambusoides, Sasa

howardi
(Cooley)

Chionaspis howardi Cooley; Kuwanaspis phyllostachydis
Borchsenius & Chadbidjeli

DISTRIBUTION:

DC*, GA, LA, MS, NJ*, TX

Asia:

Japan, Korea

USSR:

Caucasian region of Black sea, southern Crimea

Other Areas:

Bonin Is.

HOSTS:

Arundinaria, bamboo, Phyllostachys

pseudoleucaspis
(Kuwana)

Leucaspis bambusae Kuwana; Kuwanaspis bambusae (Kuwana);
Chionaspis pseudoleucaspis Kuwana; Tsukushiaspis
pseudoleucaspis (Kuwana)

DISTRIBUTION:
AL, CA, DC*, FL, GA, MD*, NJ*, SC; greenhouse in NY*, VA*
Europe:
France, Italy; greenhouse in England, Germany, Poland.
USSR:
Crimea, Black Sea coast of western Georgia
Africa:
Algeria, Morocco
Asia:
China, Japan, Korea, Taiwan, Turkey
Other Areas:
Hawaii

HOSTS:
Arundinaria, bamboo, Bambusa, Phyllostachys,
Semiarundinaria, Sinobambusa

LAPAZIA

obscura
Howett &
Beshear

DISTRIBUTION:
TX

HOSTS:
Atriplex

LEPIDOSAPHES

beckii
(Newman)

Coccus beckii Newman; Aspidiotus citricola Packard;
Mytilaspis beckii (Newman); Lepidosaphes citricola
(Packard); Cornuaspis beckii (Newman)

DISTRIBUTION:
AL, CA, GA, FL, LA, MS, SC*, TX; greenhouse in KS, MO,
NC, NY, OK, PA, TN. Widely distributed throughout the
tropical and subtropical areas of the world

HOSTS:
Citrus and other hosts

boguschi
McDaniel

DISTRIBUTION:
TX

HOSTS:
Maurandia antirrhiniflora

camelliae
Hoke

Insulaspis camelliae (Hoke)

DISTRIBUTION:

AL, AR, CT, DE, FL, GA, LA, MA, MD, MO, MS, NC, NY, OK,
OR, SC, TX, VA; (CA eradicated)

New World:

Mexico

Asia:

China, Japan, Okinawa

HOSTS:

Camellia, Cleyera, Ilex, Ligustrum, Rhaphiolepis, Thea

chinensis
Chamberlin**

Cornuaspis chinensis (Chamberlin)

DISTRIBUTION:

(CA eradicated)

Asia:

China, Singapore, Taiwan

HOSTS:

Cymbidium, Magnolia, palm, Schomburgkia

conchiformioides
Borchsenius

Mytilaspis conchiformioides (Borchsenius)

DISTRIBUTION:

DC*, MD, MO

Asia:

China, Japan, Korea

HOSTS:

Althea, Cydonia, Diospyros, Fraxinus, Malus, Pyrus,
Prunus, Punica, Syringa, Wistaria, other hosts

conchiformis
(Gmelin)

Coccus conchiformis Gmelin; Mytilaspis conchiformis
(Gmelin); Mytilaspis ficus Signoret; Lepidosaphes ficus
(Signoret); Lepidosaphes ficifoliae (Berlese);
Mytilococcus ficifoliae (Berlese); Lepidosaphes
conchyformis form conchyformis Gmelin; Lepidosaphes
conchyformis form minima Newstead

DISTRIBUTION:

CA

New World:

Argentina, Chile

Europe

Africa:
North Africa
USSR
Asia:
Iran, Iraq, Israel, Pakistan, Syria, Turkey

HOSTS:
Polyphagous; often on Ficus

destefanii
Leonardi

Mytilococcus destefanii (Leonardi); Mytilaspis flava
Targioni-Tozzetti; Lepidosaphes flava (Targioni-
Tozzetti)

DISTRIBUTION:

CA
Europe:
France, Greece, Italy, Spain
Africa:
Tunisia
USSR:
Abkhazia, Crimea, Turkmen SSR
Asia:
Israel

HOSTS:
Olea, Phillyrea

gloverii
(Packard)

Aspidiotus gloverii Packard; Mytilaspis gloverii
(Packard); Mytilococcus gloverii (Packard); Insulaspis
gloverii (Packard)

DISTRIBUTION:

AL*, CA, FL, LA, SC, TX; greenhouse in OK. Widely dis-
tributed throughout the tropical and subtropical areas
of the world

HOSTS:
Citrus and other hosts

machili
(Maskell)

Mytilaspis machili Maskell; Lepidosaphes tuberculata
Malenotti; Lepidosaphes cymbidicola Kuwana; Lepidosaphes
cinnamoni Takahashi; Eucornaspis machili (Maskell);
Eucornaspis pinnaeformis (Bouche)

DISTRIBUTION:

CA, FL; greenhouse in DC, DE, MA, MD, NJ, NY, PA

New World:
Brazil+, Guatemala
Europe:
Greenhouse in Belgium, Czechoslovakia, England, France,
Germany, Italy, Netherlands, Sweden
USSR:
Greenhouse
Asia:
China, India, Japan, Korea, Nepal, Taiwan, Thailand
Other Areas:
Australia, Bonin Is., Hawaii, New Zealand

HOSTS:
Cinnamomum, Cymbidium, Dendrobium, Machilus, Orchidaceae,
other hosts

noxia
McKenzie**

Insulaspis noxia (McKenzie)

DISTRIBUTION:
(CA eradicated)
Asia:
Philippines
Other Areas:
Hawaii

HOSTS:
Dendrobium, Vanda

pallida
(Maskell)

Mytilaspis pallida Green (var.?) Maskell; Mytilaspis pallida v. maskelli Cockerell; Lepidosaphes maskelli (Cockerell); Insulaspis maskelli (Cockerell); Insulaspis pallida (Maskell); Lepidosaphes newsteadi (Sulc) of Ferris (misidentification)

DISTRIBUTION:
AL, AR, CA, DC, DE, FL, GA, LA, MD, MS, NC, NJ, NY, PA, VA
New World:
Bermuda
Asia:
China, Japan, Korea, Taiwan
USSR:
Caucasian shore of Black Sea
Other Areas:
Hawaii

HOSTS:
Cephalotaxus, Chamaecyparis, Cryptomeria, Cupressus,
Juniperus, Picea, Podocarpus, Sciadopitys, Sequoia,
Taxodium, Taxus, Thuja

pini
(Maskell)

Poliaspis pini Maskell; Insulaspis pini (Maskell)

DISTRIBUTION:

MD (Towson), PA (Chester Co., Delaware Co.,
Montgomery Co.)

Asia:

China, Japan, Korea, Taiwan

Other Areas:

Bonin Is., Hawaii

HOSTS:

Pinus

sciadopitysi
McKenzie

Insulaspis sciadopitysi (McKenzie)

DISTRIBUTION:

CA, CT, DC, NY, OH, PA

HOSTS:

Sciadopitys

tokionis
(Kuwana)**

Mytilaspis newsteadi v. tokionis Kuwana; Lepidosaphes auriculata (Green); Lepidosaphes lasianthi (Green) of Ferris (misidentification); Insulaspis tokionis (Kuwana)

DISTRIBUTION:

MS*; greenhouse in MA*; (CA eradicated)

New World:

Antigua, Bahamas, Barbados, Bermuda, Brazil, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Guyana, Jamaica, Mexico, Panama, Puerto Rico, St. Lucia, Trinidad, Venezuela, Virgin Islands

Africa:

Madagascar, Mauritius, Mozambique, Reunion, Seychelles, Zanzibar

Asia:

Burma, Hong Kong, India, Indonesia, Japan, Pakistan, Philippines, Singapore, Sri Lanka, Taiwan, Thailand

Other Areas:

Australia, Bonin Is., Fiji, Guam, Hawaii, Marquesas Is., Palau Is., Saipan, Tahiti, Truk Is.

HOSTS:

Codiaeum

ulmi
(Linnaeus)

Coccus ulmi Linnaeus; Aspidiotus pomorum Bouche;
Mytilaspis pomorum (Bouche); Mytilococcus ulmi (Linnaeus)

DISTRIBUTION:

Most states in conterminous U.S.

New World:

Argentina, Brazil, Canada, Colombia, Chile, Mexico,
Peru, Uruguay

Europe

USSR

Africa:

North Africa, Canary Is., Madeira Is., South Africa

Asia:

China, Cyprus, Iran, Iraq, Israel, Japan, Korea, Saudi
Arabia, Syria, Taiwan, Turkey

Other Areas:

Australia, New Zealand

HOSTS:

Polyphagous

yanagicola
Kuwana

Insulaspis yanagicola (Kuwana)

DISTRIBUTION:

GA, IN, MA, MD, MO, NJ, OH, OK, PA, RI, TN, VA, WV

Asia:

China, Japan, Korea

USSR:

Saghalin Is., Ussuri area

HOSTS:

Albizzia, Celastrus, Euonymus, Pachysandra, Salix,
Tilia, Ulmus

LEUCASPIS

portaeureae
(Ferris)

DISTRIBUTION:

CA (one localized infestation.)

HOSTS:

Podocarpus

LINDINGASPIS

floridana
Ferris

Chrysomphalus floridanus (Ferris)

DISTRIBUTION:

FL

New World:

Haiti, Jamaica

Asia:

India, Pakistan, Philippines, Thailand

Africa:

Egypt

HOSTS:

Polyphagous; often on Mangifera indica

rossi
(Maskell)

Aspidiotus rossi Maskell; Chrysomphalus rossi (Maskell)

DISTRIBUTION:

CA; greenhouse in NY*

New World:

Argentina, Brazil, Chile, Mexico, Peru

Europe:

England (Kew garden), Italy (Sicily), Monaco, Portugal, Spain

Africa:

Guinea, Madeira Is., Mauritius, Mozambique, Reunion, Rhodesia, South Africa, Tanzania, Togo

Asia:

China, India, Japan, Philippines, Sri Lanka, Taiwan

Other Areas:

Australia, Hawaii, New Caledonia, New Zealand

HOSTS:

Polyphagous

LOPHOLEUCASPIS

cockerelli
(Grandpre &
Charmoy)

Fiorinia cockerelli Grandpre & Charmoy; Leucaspis cockerelli (de Charmoy); Leucodiaspis cockerelli (de Charmoy); Lopholeucaspis cockerelli (de Charmoy)

DISTRIBUTION:

FL; greenhouse in MA*, NY*, (CA eradicated)

New World:

Bahamas, Bermuda, Brazil, Central America, Colombia, Cuba, Dominica, Dominican Republic, Ecuador, Grenada, Jamaica, Martinique, Mexico, Peru, Puerto Rico, Trinidad, Venezuela

Europe:

Greece+; greenhouse in England, Germany

Africa:

Cameroon, Guinea, Kenya, Liberia, Madagascar, Mauritius,

Principe, Seychelles, Sierra Leone, Tanzania, Zaire
Asia:
India, Indonesia, Philippines, Sri Lanka
Other Areas:
Australia, Bonin Is., Fiji, Hawaii, Niue, Ponape, Tonga

HOSTS:
Polyphagous

japonica
(Cockere11)

Leucaspis japonica Cockere11

DISTRIBUTION:
CT, DC, DE, GA, MD, NJ, NY, PA, RI, VA
New World:
Brazil
USSR:
Crimea, Georgia, far east (Vladivostok)
Asia:
Afghanistan, China, Iran, Japan, Korea, Okinawa, Taiwan,
Turkey

HOSTS:
Polyphagous

MELANASPIS

aliena
(Newstead)**

Aspidiotus alienus Newstead; Chrysomphalus alienus
(Newstead); Pseudischnaspis alienus (Newstead)

DISTRIBUTION:
(FL eradicated)
New World:
Brazil, Central America, Cuba, Ecuador, Jamaica, Mexico,
Puerto Rico+
Europe:
England (greenhouse)
Other Areas:
Hawaii+

HOSTS:
Orchidaceae

bromeliae
(Leonardi)

Aonidiella bromeliae Leonardi; Aspidiotus bromeliae
(Leonardi); Chrysomphalus bromeliae (Leonardi);
Pseudischnaspis anassarum Lindinger; Targionia bromeliae
(Leonardi); Melanaspis smilacis (Comstock) of Ferris
(misidentification in part)

DISTRIBUTION:

FL; greenhouse in PA

New World:

Brazil, Colombia, Costa Rica, Cuba, Guatemala, Haiti, Honduras, Jamaica, Martinique, Mexico, Panama, Puerto Rico

Europe:

Azores, Portugal; greenhouse in Belgium+, England, Netherlands+

Africa:

Canary Is., Cameroon, Guinea, Ivory Coast, South Africa, Seychelles, Togo

Asia:

Taiwan

Other Areas:

Hawaii, Guam, Palau Is., Ponape, Yap Is.

HOSTS:

Ananas comosus, Cocos nucifera, other hosts

coccolobae

Ferris

DISTRIBUTION:

FL

New World:

Bahamas, Barbados, Cuba, Dominican Republic, El Salvador, Grenada, Guatemala, Haiti, Honduras, Jamaica, Martinique, Mexico, Panama, Puerto Rico, St. Croix, Venezuela

HOSTS:

Coccoloba

delicata

Ferris

DISTRIBUTION:

TX

HOSTS:

Prosopis

deliquescens

Ferris

DISTRIBUTION:

TX

HOSTS:

Acacia constricta

elaeagni

McKenzie

DISTRIBUTION:

LA, TX

New World:

Costa Rica, Guatemala

HOSTS:
Celtis, Elaeagnus, Pithecellobium, Populus, Yucca

latipyga
Ferris

DISTRIBUTION:
TX
New World:
Costa Rica, Mexico, Panama

HOSTS:
Celtis, Coccoloba, Fraxinus, Piper, Salix, Solanum,
Spondias, other hosts

lilacina
(Cockerell)

Aspidiotus (Chrysomphalus) lilacinus Cockerell;
Chrysomphalus lilacinus (Cockerell)

DISTRIBUTION:
AZ, CA, NM, OK, TX

HOSTS:
Quercus

marlatti
(Parrott)

Aspidiotus (Targionia) marlatti Parrott; Targionia
marlatti (Parrott); Targaspidotus marlatti (Parrott)

DISTRIBUTION:
GA, KS, SD, TX

HOSTS:
Andropogon, Panicum virgatum

mimosae
(Comstock)

Aspidiotus mimosae Comstock; Chrysomphalus mimosae
(Comstock)

DISTRIBUTION:
FL* (1920 record)
New World:
Mexico

HOSTS:
mimosa, Spondias, Tillandsia

nigropunctata
(Cockerell)

Aspidiotus nigropunctatus Cockerell; Chrysomphalus
nigropunctatus (Cockerell)

DISTRIBUTION:
DC, TX, VA
New World:
Costa Rica, Guatemala, Mexico, Panama, Puerto Rico

HOSTS:
Baccharis, Cornus, Echeveria, Epidendrum, Fraxinus,
Guaiacum officinale, Laelia majalis, Philodendron,
Prunus capuli, Randia, Salix

obscura
(Comstock)

Aspidiotus obscurus Comstock; Chrysomphalus obscurus
(Comstock)

DISTRIBUTION:
AL, AR, CA, CT, DE, FL, GA, IA, IL, IN, LA, KS, KY, MD,
MO, MS, NC, NJ, NY, OH, OK, PA, SC, TN, TX, VA, WV
New World:
Canada (Ontario)

HOSTS:
Acer, Carya, Castanea, Cornus, Fagus, Juglans, Planera
aquatica, Prosopis, Quercus, Sapindus, Ulmus, Viburnum
obovatum, Vitis

odontoglossi
(Cockerell)**

Aspidiotus biformis v. odontoglossi Cockerell;
Aspidiotus odontoglossi Cockerell; Chrysomphalus
odontoglossi (Cockerell); Melanaspis obtusa Ferris

DISTRIBUTION:
NY* in greenhouse
New World:
Galapagos Is., Jamaica, Mexico, Panama

HOSTS:
Polyphagous

smilacis
(Comstock)

Aspidiotus smilacis Comstock; Chrysomphalus smilacis
(Comstock)

DISTRIBUTION:
DC, FL, GA, LA, MA, MD, SC, TX, VA
New World:
Mexico

HOSTS:
Dasyllirion, Nolina, Smilax

tenebricosa
(Comstock)

Aspidiotus tenebricosus Comstock; Chrysomphalus
tenebricosus (Comstock); Aonidiella tenebricosa (Comstock)

DISTRIBUTION:

AL, AR, DC, DE, FL, GA, IL, KY, LA, MD, MO, MS, NC, NJ,
NY, OH, OK, PA, SC, TN, TX, VA, WV

HOSTS:

Polyphagous

MORGANELLA

cueroensis
(Cockerell)

Aspidiotus cueroensis Cockerell; Targionia cueroensis
(Cockerell); Targionia celtis Herrick

DISTRIBUTION:

FL, GA, LA, MD, MS, SC, TX

New World:

Mexico

HOSTS:

Acacia flexicaulis, Acer, Carica papaya, Celtis, Decumaria
barbara, Fagara, Magnolia, Myrica cerifera,
Parthenocissus, Persea, Pithecellobium dulce

longispina
(Morgan)

Aspidiotus longispinus Morgan; Aspidiotus maskelli
Cockerell; Aspidiotus maskelli var. ornatus Maskell;
Morganella maskelli (Cockerell)

DISTRIBUTION:

FL (Miami)

New World:

Antigua, Bahamas, Barbados, Bermuda, Brazil, Costa Rica,
Dominican Republic, Guatemala, Guyana, Haiti, Jamaica,
Puerto Rico, St. Martin, Tabago, Trinidad

Africa:

Algeria, Cameroon, Mauritius, Mozambique, Rodrigues, Sao
Tome, South Africa

Asia:

China, Hong Kong, India, Indonesia, Japan, Philippines,
Sri Lanka, Taiwan

Other Areas:

Australia, Fiji, Guadalcanal, Hawaii, Marquesas Is., New
Caledonia, New Guinea, Samoa, Tahiti

HOSTS:

Polyphagous; often on Citrus

MYCETASPIS

apicata
(Newstead)

Aspidiotus (Chrysomphalus) apicatus Newstead; Pelomphala apicata (Newstead)

DISTRIBUTION:

TX (lower Rio Grande River - Cameron Co)

New World:

Brazil, Guyana, Mexico, Panama

HOSTS:

Acacia, Albizzia, Avicennia nitida, Clusia, Enterolobium cyclocarpum, Inga, Magnolia, Pithecellobium flexicaule

defectopalus
Ferris

DISTRIBUTION:

FL, TX

New World:

Belize, Ecuador, Mexico, Nicaragua, Panama, Peru

HOSTS:

Bumelia tenax, Cercidium floridum, Chlorophora tinctoria, Fagara fagara, Portiera angustifolia, Sideroxylon, Spondias, Swietenia mahogani

personata
(Comstock)

Aspidiotus personatus Comstock; Chrysomphalus personatus (Comstock)

DISTRIBUTION:

FL; greenhouse in DC*

New World:

Argentina, Brazil, most Caribbean Islands, Central America, Colombia, Guyana, Mexico, Peru, Venezuela

Europe:

Greenhouse in Belgium, Czechoslovakia, England, France, Germany, Netherlands

USSR:

Greenhouse

Africa:

Canary Is., Cameroon, Egypt, Guinea, Madeira Is., Ivory Coast, Senegal, Sierra Leone, South Africa, Togo

Asia:

Philippines, Indonesia, Sri Lanka

Other Areas:

Hawaii

HOSTS:

Polyphagous

sphaerioides
(Cockerell)

Aspidiotus sphaerioides Cockerell; Chrysomphalus
sphaerioides (Cockerell)

DISTRIBUTION:

LA

New World:

Guatemala, Mexico, Panama

HOSTS:

Bursera, Chamaedorea, Euterpe, Dracaena, Mangifera indica,
palm, Philodendron, Phorium tenax

NELASPIS

crookiae
Ferris

DISTRIBUTION:

FL

HOSTS:

Crookia microsepalum

NEOPINNASPIS

harperi
McKenzie

DISTRIBUTION:

CA, FL, GA

Asia:

Japan, Taiwan

Other Areas:

Hawaii

HOSTS:

Polyphagous

NICHOLIELLA

bumeliae
Ferris

DISTRIBUTION:

AZ

HOSTS:

Bumelia rigida

NILOTASPIS**

halli
(Green)**

Lepidosaphes (Coccomytilus) halli Green; Coccomytilus halli (Green); Lepidosaphes (Coccomytilus) zlocistii Bodenheimer

DISTRIBUTION:
(CA eradicated)

Europe:

Greece

Africa:

Egypt

USSR:

Tadjik SSR, Turkmen SSR, Uzbek SSR

Asia:

Afghanistan, Iran, Iraq, Pakistan, Israel, Syria, Turkey

HOSTS:

Amygdalus, Cerasus, Malus, Prunus, Pyrus, other Rosaceae

NIVEASPIS

ilicis
(Hoke)

Lepidosaphes ilicis Hoke; Lyraspis ilicis (Hoke)

DISTRIBUTION:

GA, MS, TX

HOSTS:

Forestiera pubescens, Ilex

NUCULASPIS

abietis
(Schrank)

Coccus abietis Schrank; Aspidiotus abietis (Schrank);
Dynaspidiotus abietis (Schrank)

DISTRIBUTION:

WA

Europe

USSR

Asia:

Iran, Turkey

HOSTS:

Abies, Juniperus, Picea, Pinus

apacheca
Ferris

DISTRIBUTION:
AZ
New World:
Guatemala, Mexico

HOSTS:
Pinus

californica
(Coleman)

Aspidiotus californicus Coleman; Aspidiotus? pini Comstock; Chrysomphalus californicus (Coleman); Aspidiotus abietis (Schrank) (misidentification)

DISTRIBUTION:
General distribution in conterminous U.S.
New World:
Canada, Mexico

HOSTS:
Pinus, Pseudotsuga, Tsuga

pseudomeyeri
(Kuwana)

Aspidiotus pseudomeyeri Kuwana; Tsugaspidotus pseudo-
meyeri (Kuwana)

DISTRIBUTION:
PA (one collection), NY (two collections on Long Island)
Asia:
Japan

HOSTS:
Cedrus, Chamaecyparis, cypress, Juniperus, Thuja, Tsuga

tsugae
(Marlatt)

Aspidiotus (Diaspidiotus) tsugae Marlatt; Tsugaspidotus
tsugae (Marlatt)

DISTRIBUTION:
CT, NJ, RI
Asia:
Japan, Korea
USSR:
Far east

HOSTS:
Juniperus, Picea, Taxus, Tsuga

ODONASPIS

graminis
Bremner

DISTRIBUTION:
CA
New World:
Mexico

HOSTS:
Danthonia californica, grass

litorosa
Ferris

DISTRIBUTION:
TX
New World:
Mexico, Panama

HOSTS:
Milium?, Rachidospermum mexicanum, Sporobolus wrightii,
other grasses

minima
Howell &
Tippins

DISTRIBUTION:
GA

HOSTS:
Aristida

penicillata
Green

Anoplaspis penicillata (Green); Dycryptaspis penicillata
(Green); Frogattiella penicillata (Green)

DISTRIBUTION:
AL, CA, FL, GA, LA, MS, TX
New World:
Guyana, Jamaica, Puerto Rico
Africa:
Algeria, South Africa
Asia:
China, India, Iran, Japan, Pakistan, Philippines, Sri
Lanka, Taiwan
Other Areas:
Fiji, Hawaii, Palau Is.

HOSTS:
Arundinaria, Bambusa, Dendrocalamus, Gigantochloa aspera,
Phyllostachys, other bamboo

ruthae
Kotinsky

Dycryptaspis ruthae (Kotinsky)

DISTRIBUTION:

AL, AR, AZ, CA, FL, GA, LA, MS, SC, TX

New World:

Argentina, Bermuda, Brazil, Chile, Cuba, Mexico, Puerto Rico, St. Croix

Africa:

Egypt, Ethiopia, Kenya, Madagascar, Mauritius, Reunion, Rhodesia, South Africa

Asia:

Chagos Arch., Israel, Sri Lanka

Other Areas:

Australia, Christmas Is., Hawaii, New Caledonia

HOSTS:

Poaceae; commonly found on Cynodon dactylon

saccharicaulis
(Zehntner)

Aspidiotus sacchari-caulis Zehntner; Aspidiotus secretus v. sacchari-caulis Zehntner; Odonaspis secreta sacchari-caulis (Zehntner)

DISTRIBUTION:

AL, FL, MD

New World:

Cuba, Guatemala+, Honduras+, Puerto Rico, St. Croix, Venezuela

Africa:

Cameroon, Madeira Is., Mauritius, Sao Tome, South Africa, Tanzania, Uganda

Asia:

India, Indonesia, Philippines, Thailand+

Other Areas:

New Guinea, Palau Is.

HOSTS: Chloris gayana, Digitaria decumbens, Erianthus arundinaceus, Panicum purpurascens, Pennisetum purpureum, Saccharum officinarum, Sorghum halepense, other grasses

secreta
(Cockere11)

Aspidiotus secretus Cockere11: Dycryptaspis secreta (Cockere11)

DISTRIBUTION:

LA, NJ*; greenhouse in NY

Europe:

France; greenhouse in Czechoslovakia

USSR:

Crimea, Black Sea coast of Caucasus

Africa:
Algeria
Asia:
China, India, Indonesia, Iran, Japan, Pakistan, Sri Lanka,
Taiwan
Other Areas:
Bonin Is., Western Samoa

HOSTS:
Arundinaria, Bambusa, Sasa, other bamboo

OPUNTIASPIS

carinata
(Cockereil)

Mytilaspis carinatus Cockerell; Lepidosaphes carinatus
(Cockereil); Mytilaspis nigra Cockerell

DISTRIBUTION:
FL (Broward Co., Dade Co., Lee Co., Palm Beach Co., St.
Lucie Co.), TX (Hidalgo Co.)
New World:
Belize, Guatemala, Mexico, Peru

HOSTS:
Anthurium, Beaucarnea, Citrus aurantifolia, Dracaena,
Nolina, Oncidium, orchid, Pedilanthus, Philodendron,
Theobroma cacao, Tillandsia, Yucca

PALINASPIS

quohogiformis
(Merrill)

Targionia quohogiformis Merrill

DISTRIBUTION:
FL
New World:
Cuba, Jamaica, St. Lucia

HOSTS:
Polyphagous

PALLULASPIS

ephedrae
Ferris

DISTRIBUTION:
CA

HOSTS:
Ephedra nevadensis

PARACUPIDASPIS

wilkeyi
Howell &
Tippins

DISTRIBUTION:
AZ, CA, KS, NM, OR

HOSTS:
Calocedrus decurrens, Juniperus, J. virginiana

PARLATOREOPSIS

chinensis
(Marlatt)

Parlatoria chinensis Marlatt

DISTRIBUTION:
CA, FL, MO
Asia:
China, India, Japan, Philippines, Taiwan

HOSTS:
Polyphagous

pyri
(Marlatt)

Parlatoria pyri Marlatt

DISTRIBUTION:
DC, MD
Asia:
China, Japan

HOSTS:
Acer, Cornus, Elaeagnus, Ligustrum, Malus, Osmanthus,
Pyrus

PARLATORIA

blanchardi
(Targioni-
Tozzetti)**

Aonidia blanchardi Targioni-Tozzetti; Parlatoria victrix
Cockerell; Parlatoria blanchardii (Targioni-Tozzetti)

DISTRIBUTION:
(AZ*, CA* eradicated)
New World:
Argentina, Brazil, Bolivia
Europe:
Italy
Africa:
North Africa, Chad, Mali, Mauritius, Niger, Somalia, Sudan

USSR:
Turkmen SSR
ASIA:
Afghanistan, India, Iran, Iraq, Israel, Jordan, Pakistan,
Saudi Arabia, Syria
Other Areas:
Austalia

HOSTS:
Phoenix canariensis, P. dactylifera, Pritchardia filifera,
Hyphaene thebaica

camelliae
Comstock

Parlatoria pergandii var. camelliae Comstock

DISTRIBUTION:
AL, CA, FL, DC, DE, GA, LA, MD, MS, NC, OR, SC, TX, VA
New World:
Argentina, Chile, Mexico
Europe:
France, Italy, Portugal, Switzerland
USSR:
Abkhazia
Asia:
China, Hong Kong, India, Indonesia, Japan, Korea, Pakis-
tan, Taiwan

HOSTS:
Polyphagous; often on Camellia

crotonis
Douglas

Parlatoria proteus var. crotonis Douglas

DISTRIBUTION:
FL, LA; greenhouse in DC, IL*, MA*, NY*, OH*, PA; (CA
eradicated).
New World:
Antigua, Bahamas, Bermuda, Costa Rica, Cuba, El Salvador,
Grand Cayman Is., Guadeloupe, Guyana, Honduras, Haiti,
Jamaica, Mexico, Nicaragua, Panama, Puerto Rico, St.
Croix, St. Lucia
Europe:
Greenhouse in England, France
Africa:
Cameroon, Egypt, Guinea, Madagascar, South Africa
Asia:
India, Philippines, Taiwan?

Other Areas:
Cook Is., Fiji, Hawaii, Kwajalein Is., New Caledonia,
Palau Is., Tahiti, Truk Is., Western Samoa

HOSTS:
Codiaeum

oleae
(Colvee)

Diaspis oleae Colvee; Parlatoria calianthina Berlese &
Leonardi; Syngenaspis oleae (Colvee)

DISTRIBUTION:

AZ, CA, DE, MD

New World:

Argentina, Brazil, Bolivia, Grand Cayman Is., Mexico

Europe:

Bulgaria, France, Greece, Italy, Malta, Portugal, Spain,
Yugoslavia

Africa:

North Africa, Canary Is., Sudan

USSR:

Armenia, Azerbaijan, Crimea, Dugestan, Georgia, Kazakh
SSR, Krasnodar region, Tadzhik SSR, Turkmen SSR, Uzbek SSR

Asia:

Afghanistan, Cyprus, India, Iran, Iraq, Israel, Jordan,
Lebanon, Pakistan, Saudi Arabia, Syria, Turkey

Other Areas:

Australia

HOSTS:

Olea and many other hosts

pergandii
Comstock

Parlatoria pergandei Comstock

DISTRIBUTION:

AL, CA, CT*, DC*, FL, GA, IL*, KS, LA, MD, MO*, MS, NY,
OK, PA, SC, TX, VA*; greenhouse in colder areas. Widely
distributed throughout the tropical and subtropical areas
of the world

HOSTS:

Polyphagous; common on Citrus

pittospori
Maskell

Parlatoria myrtus Maskell; Parlatoria dryandrae Fuller;
Parlatoria petrophilae Fuller

DISTRIBUTION:
CA
Africa:
South Africa
Other Areas:
Australia, New Zealand

HOSTS:
Polyphagous

proteus
(Curtis)

Aspidiotus proteus Curtis; Parlatoria orbicularis Targioni
-Tozzetti; Syngenaspis proteus (Curtis)

DISTRIBUTION:
DC, FL, IL*, KS*, LA, MA*, MD, MO*, MS*, NJ, NY, PA, TN,
TX; (CA under eradication program); greenhouse in colder
areas
New World:
Bahamas, Brazil, many Caribbean Islands, Central America,
Colombia, Ecuador, Mexico, Paraguay, Peru, Surinam,
Venezuela
Europe:
Greenhouse in Belgium, Bulgaria, Czechoslovakia, England,
Denmark, France, Germany, Italy, Monaco, Spain
USSR:
Greenhouse
Africa:
Egypt, Mauritius, South Africa, Tanzania
Asia:
Iran, Pakistan eastward through Indonesia and north to
Japan and Korea
Other Areas:
Australia, Bonin Is., Caroline Is., Fiji, Guam, Hawaii,
New Guinea

HOSTS:
Polyphagous; common on Orchidaceae

theae
Cockerell

DISTRIBUTION:
DC, GA, MD, MS, NC, TX, VA; (CA eradicated)
Asia:
China, Iran, Japan, Korea, Taiwan
Europe:
Greenhouse in England
USSR:
Black Sea coast, Caucasus

HOSTS:
Polyphagous

vandae
McKenzie**

DISTRIBUTION:
(CA eradicated)
New World:
Jamaica, Panama
Other Areas:
Guam, Hawaii

HOSTS:
Vanda, other orchid plants

PELLICULASPIS

celtis
McDaniel

DISTRIBUTION:
TX

HOSTS:
Celtis spinosa var. pallida

PINNASPIS

aspidistrae
(Signoret)

Chionaspis aspidistrae Signoret; Hemichionaspis aspidistrae (Signoret); Pinnaspis ophiopogonis Takahashi; Pinnaspis caricis Ferris

DISTRIBUTION:
AL, AR, CA, CT, DC, FL, GA, IA, IL, IN, KS, KY, LA, MA, MD, MI, MO, MS, NC, NJ, NY, OH, OK, OR, PA, SC, TN, TX, UT, VA; greenhouse in northern states. Widely distributed in the tropical and subtropical areas of the world; greenhouse in temperate regions

HOSTS:
Polyphagous; common on Aspidistra, ferns, Liriope, Ophiopogon

buxi
(Bouche)

Aspidiotus buxi Bouche; Mytilaspis buxi (Bouche); Mytilaspis? pandani Comstock; Pinnaspis pandani (Comstock); Pinnaspis siphonodontis Cockerell & Robinson

DISTRIBUTION:
FL; greenhouse in DC*, IL*, MA*, NY*, PA*
New World:
Argentina, Brazil, many Caribbean Islands, most Central

American countries, Colombia, Ecuador, Guyana, Mexico, Peru, Surinam, Venezuela

Europe:

Italy; greenhouse

USSR:

Greenhouse

Africa:

Cameroon, Egypt, Ghana, Madagascar, Mauritius, Reunion, Sao Tome, Seychelles, Sierra Leone, Tanzania, Togo, Zaire

Asia:

China, Hong Kong, India, Indonesia, Japan, Korea, Malaya, Pakistan, Philippines, Singapore, Sri Lanka, Taiwan, Thailand

Other Areas:

Australia, Bonin Is., Fiji, Guam, Hawaii, Kusaie, New Guinea, Palau Is., Ponape, Solomon Is., Tahiti, Truk Is.

HOSTS:

Polyphagous

strachani
(Cooley)

Hemichionaspis minor var. strachani Cooley; Hemichionaspis marchali Cockerell; Hemichionaspis townsendi Cockerell; Pinnaspis marchali (Cockerell); Pinnaspis gossypii (Newstead); Pinnaspis minor of authors; Pinnaspis temporaria Ferris

DISTRIBUTION:

AL, FL, GA, LA, MS, TX, probably in other states; (CA eradicated)

New World:

Widespread south of U.S. border; Bermuda

Europe:

Greenhouse in Germany, Great Britain, Poland

USSR:

Greenhouse

Africa:

Cameroon, Cape Verde, Dahomey, Gambia, Ghana, Guinea, Ivory Coast, Kenya, Madagascar, Mauritania, Mauritius, Mozambique, Nigeria, Principe, Reunion, Rodrigues, Sao Tome, Senegal, Seychelles, Tanzania, Togo, Zaire

Asia:

Chagos Arch., China, Hong Kong, India, Indonesia, Japan, Korea, Malaysia, Nepal, Okinawa, Pakistan, Philippines, Saudi Arabia, Singapore, Sri Lanka, Taiwan, Thailand, Vietnam

Other Areas:

Australia, Caroline Is., Canton Is., Christmas Is., Cook Is., Ellice Is., Fiji, Gilbert Is., Hawaii, Marshall Is.,

Mariana Is., New Caledonia, New Guinea, Niue, New Zealand,
Ocean Is., Palau Is., Samoa, Tonga, Tokelau, Tahiti, Yap
Is.

HOSTS:
Polyphagous

POLIASPIS

cycadis
Comstock**

Poliaspis gaultheriae Green

DISTRIBUTION:
DC* in greenhouse
Europe:
England in greenhouse
Asia:
India

HOSTS:
Cycas, Dioon edule, Microzamia

PRAECOCASPIS

diversa
Ferris

DISTRIBUTION:
FL

HOSTS:
Trema

PROTODIASPIS

agrifoliae
Essig

DISTRIBUTION:
CA
New World:
Mexico

HOSTS:
Quercus, Q. agrifolia

didymus
McKenzie &
Nelson-Rees

DISTRIBUTION:
AZ

HOSTS:
Quercus grisea, Q. turbinella

emoryi
Ferris

DISTRIBUTION:
TX

HOSTS:
Quercus emoryi

lobata
Ferris

Obluctaspis lobata (Ferris)

DISTRIBUTION:
CO, NM, TX

HOSTS:
Quercus gambeli, Q. grisea

pulchra
Ferris

DISTRIBUTION:
AZ
New World:
Mexico

HOSTS:
Quercus, Q. toumeyii

varus
Hoke

DISTRIBUTION:
AR, MS, TN, TX
New World:
Mexico

HOSTS:
Quercus, Q. hypoleuca, Q. laurifolia

PSEUDAONIDIA

duplex
(Cockerell)

Aspidiotus duplex Cockerell; Pseudaonidia rhododendri (Green); Aspidiotus theae Maskell; Pseudaonidia theae (Maskell)

DISTRIBUTION:
AL, FL, GA, LA, MS, TX, VA
Asia:
China, India, Japan, Korea, Sri Lanka, Taiwan

USSR:
Abkhazia, W. Gruzia

HOSTS:
Polyphagous

paeoniae
(Cockereil)

Aspidiotus duplex var. paeoniae Cockereil; Pseudaonidiella
paeoniae (Cockereil)

DISTRIBUTION:
AL, AR, DC, DE, FL, GA, LA, MD, MO, MS, NC, NJ, NY, PA,
SC, TX, VA

Asia:
China, Japan

Europe:
Italy

USSR:
Georgia

HOSTS:
Azalea, Camellia, Ilex, Myrica, Rhododendron, Thea, other
hosts

trilobitiformis
(Green)

Aspidiotus trilobitiformis Green

DISTRIBUTION:
FL (Dade Co.)

New World:
Argentina, Bahamas, Bolivia, Brazil, Caribbean Islands,
Colombia, Costa Rica, Ecuador, El Salvador, Guatemala,
Guyana, Mexico, Panama, Peru, Surinam, Uruguay, Venezuela

Africa:
Angola, Benin, Cameroon, Chad, Egypt, Guinea, Ivory Coast,
Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique,
Nigeria, Principe, Reunion, Rodrigues, Sao Tome, Senegal,
Sierra Leone, Somalia, South Africa, Tanzania, Togo,
Uganda, Zaire, Zanzibar

USSR:
Abkhazia in greenhouse

Asia:
Pakistan east through Indonesia north into China and Japan

Other Areas:
Australia, Fiji+, New Caledonia, Tahiti+

HOSTS:
Polyphagous; often on Annona, Citrus, Ficus, Ixora,
Mangifera indica, Nerium

PSEUDAULACASPIS

cockerelli
(Cooley)

Chionaspis cockerelli Cooley; Chionaspis dilatata Green;
Phenacaspis dilatata (Green); Phenacaspis natalensis
Cockerell; Chionaspis aucubae Cooley; Phenacaspis aucubae
(Cooley); Phenacaspis sandwicensis Fullaway; Chionaspis
syringae Borchsenius; Pseudaulacaspis biformis Takagi;
Phenacaspis ferrisi Mamet; Phenacaspis cockerelli (Cooley)

DISTRIBUTION:

AL, FL, GA, LA, MO, SC, TN, TX; greenhouse in MD, OR, PA,
VA; (CA eradicated)

New World:

Guatemala+, St. Thomas+

Africa:

Egypt, Kenya, Madagascar, Mauritius, Mozambique, Reunion,
Rhodesia, Rodrigues, Seychelles, South Africa, Zanzibar

Asia:

Bangladesh, Cambodia, China, Hong Kong, India, Indonesia,
Japan, Korea, Malaya, Philippines, Singapore, Sri Lanka,
Taiwan, Thailand, Vietnam

USSR:

Far east

Other Areas:

Australia, Bonin Is., Hawaii, Solomon Is.

HOSTS:

Polyphagous

major
(Cockerell)

Chionaspis major Cockerell; Aulacaspis flacourtiae Ruther-
ford; Pseudaulacaspis flacourtiae (Rutherford); Aulacaspis
major (Cockerell); Diaspis major (Cockerell)

DISTRIBUTION:

FL

New World:

Antigua, Colombia, Costa Rica, Cuba, Dominican Republic,
Galapagos Is., Guatemala, Honduras, Puerto Rico, Trinidad,
Venezuela

Africa:

Madagascar, Mauritius, Seychelles, Zanzibar

Asia:

China, Indonesia (Java), Sri Lanka, Taiwan

Other Areas:

Hawaii

HOSTS:

Polyphagous

pentagona
(Targioni-
Tozzetti)

Diaspis pentagona Targioni-Tozzetti; Diaspis amygdali
Tryson; Diaspis lanatus Morgan & Cockerell; Chionaspis
prunicola Maskell; Aulacaspis pentagona (Targioni);
Sasakiaspis pentagona (Targioni)

DISTRIBUTION:

AL, CT, DC, DE, FL, GA, IN, LA, MA, MD, MO, MS, NC, NJ,
NY, OH, OR, PA, RI, SC, TN, TX, VA, WV: (CA eradicated)

New World:

Caribbean Islands, most countries in South America,
Bahamas, Bermuda, Costa Rica, Honduras, Panama

Europe:

Bulgaria, England, France, Germany, Greece, Hungary,
Italy, Malta, Switzerland, Yugoslavia

Africa:

Egypt, Ghana, Madagascar, Madeira Is., Malawi, Mauritius,
Principe, Reunion, Rhodesia, Sao Tome, Seychelles, South
Africa, St. Helena, Tanzania, Zanzibar

USSR:

Transcaucasus, Abkhazia, Adjaria, Sakhalin, Ukraine

Asia:

China, Hong Kong, India, Indonesia, Iran, Israel, Japan,
Korea, Malaya, Sri Lanka, Syria, Taiwan, Turkey, Viet-
nam

Other Areas:

Australia, Bonin Is., Fiji, Guam, New Caledonia, New
Guinea, New Hebrides, New Zealand, Palau Is., Ponape,
Saipan, Solomon Is., Tonga, Truk Is.

HOSTS:

Polyphagous

PSEUDISCHNASPIS

bowreyi
(Cockerell)

Aspidiotus bowreyi Cockerell; Chrysomphalus bowreyi (Cock-
erell); Pseudischnaspis linearis Hempel

DISTRIBUTION:

FL; greenhouse in MO*, NY*

New World:

Argentina, Barbados, Bermuda, Bolivia, Brazil, Central
America, Colombia, Cuba, Dominican Republic, Ecuador,
Jamaica, Mexico, Peru, Puerto Rico, St. Thomas, Trinidad,
Venezuela

HOSTS:

Polyphagous; often on bromeliads, Agave

PSEUDODIASPIS

larreae
(Cockere11)

Aspidiotus (Pseudodiaspis) larreae Cockere11

DISTRIBUTION:

AZ

HOSTS:

Larrea tridentata

PSEUDOPARLATORIA

ostreata
Cockere11

DISTRIBUTION:

FL

New World:

Central America, Cuba, Dominican Republic, Ecuador, Guadeloupe, Guyana, Haiti, Jamaica, Mexico, Puerto Rico, St. Croix, Venezuela

Europe:

Greenhouse in France, Germany

Africa:

Cameroon, Guinea, Nigeria, Senegal, Sierra Leone

HOSTS:

Polyphagous

parlatorioides
(Comstock)

Aspidiotus? parlatorioides Comstock; Pseudoparlatoria pusilla Green

DISTRIBUTION:

AL, FL, GA, MD, NJ, TX; (CA eradicated); greenhouse in colder areas

New World:

Many countries and islands south of U.S. border, Bermuda

Europe:

Spain; greenhouse in Belgium, Czechoslovakia, England, France, Germany, Italy, Netherlands, Sweden

USSR:

Greenhouse

Asia:

Sri Lanka

Other Areas:

Hawaii, New Zealand

HOSTS:

Polyphagous

tillandsiae
Tippins

DISTRIBUTION:
FL

HOSTS:
Tillandsia usneoides

QUADRASPIDIOTUS

braunschvigi
(Rungs) **

Aspidiotus braunschvigi Rungs; Aspidaspis braunschvigi
(Rungs)

DISTRIBUTION:
CA*
Africa:
Morocco

HOSTS:
Ficus, Pistacia

forbesi
(Johnson)

Aspidiotus forbesi Johnson; Forbesaspis forbesi (Johnson)

DISTRIBUTION:
General distribution in conterminous U.S.
New World:
Canada, Mexico
Africa:
South Africa

HOSTS: Polyphagous

gigas
(Thiem &
Gerneck)

Aspidiotus (Euraspidiotus) gigas Thiem & Gerneck;
Diaspidiotus gigas (Thiem & Gerneck); Aspidiotus multi-
glandulatus Borchsenius; Quadraspidotus ostreaeformis
(Curtis) of Ferris

DISTRIBUTION:
ID, MT, NY, OH, OR, PA, RI*, UT, WA, WI*, WY
New World:
Canada (New Brunswick, Nova Scotia, Ontario)
Europe:
Bulgaria, Czechoslovakia, France, Germany, Hungary, Italy,
Netherlands, Poland, Spain, Switzerland
USSR
Africa:
Algeria
Asia:
Turkey

HOSTS:
Populus, Salix

juglansregiae
(Comstock)

Aspidiotus juglans-regiae Comstock; Aspidiotus fernaldi
Cockerell; Quadraspidotus fernaldi (Cockerell);
Aspidiotus glanduliferus Cockerell; Quadraspidotus
glanduliferus (Cockerell)

DISTRIBUTION:
General distribution in conterminous U.S.
New World:
Canada, Mexico

HOSTS:
Polyphagous

ostreaeformis
(Curtis)

Aspidiotus ostreaeformis Curtis; Diaspidiotus
ostreaeformis (Curtis); Aspidiotus betulae Baerensprung;
Diaspidiotus hunteri (Newell)

DISTRIBUTION:
CO, CT, IA, ID, KS, MA, ME, MI, MN, MT, NH, NY, OH, OR,
PA, RI, SD, UT, WA, WI, WY
New World:
Argentina, Canada
Europe
USSR
Asia:
China, India, Iran, Iraq, Japan, Korea, Nepal, Pakistan,
Turkey
Other Areas:
Australia, New Zealand

HOSTS:
Polyphagous; common on Malus, Rosaceae

perniciosus
(Comstock)

Aspidiotus perniciosus Comstock; Comstockiaspis
perniciosus(Comstock); Diaspidiotus perniciosus
(Comstock)

DISTRIBUTION:
General distribution in conterminous U.S.
New World:
Argentina, Bolivia, Brazil, Canada, Chile, Cuba, Mexico,
Paraguay, Peru, Uruguay, Venezuela
Europe:
Austria, Bulgaria, Czechoslovakia, France, Germany,

Greece, Hungary, Italy, Poland, Portugal, Romania, Spain,
Switzerland, Yugoslavia

USSR:

Africa:

Algeria, Angola, Canary Is., Rhodesia, South Africa, Zaire

Asia:

China, India, Iran, Iraq, Japan, Korea, Nepal, Pakistan,

Turkey

Other Areas:

Australia, New Zealand

HOSTS:

Polyphagous; common on Malus, Prunus, Rosaceae

socialis
(Hoke)

Aspidiotus socialis Hoke

DISTRIBUTION:

GA, MS, TX

HOSTS:

Quercus

taxodii
Ferris

DISTRIBUTION:

DC, FL, GA, LA, MD, PA, TX

HOSTS:

Taxodium distichum

tillandsiae
Takagi &
Tippins

DISTRIBUTION:

GA

HOSTS:

Tillandsia usneoides

QUERNASPIS

insularis
Howett

DISTRIBUTION:

FL, GA

HOSTS:

Quercus laurifolia, Q. stellata, Q. virginiana

quercicola
Tippins &
Beshear

DISTRIBUTION:
GA

HOSTS:
Quercus laurifolia

quercus
(Comstock)

Chionaspis quercus Comstock

DISTRIBUTION:
AZ, CA, FL, GA, LA, NM, OH, TX, WA
New World:
Mexico

HOSTS:
Quercus

RADIONASPIS

indica
(Marlatt)

Leucaspis indica Marlatt; Suturaspis indica (Marlatt);
Radiaspis indica (Marlatt)

DISTRIBUTION:
FL
New World:
Cuba, Dominican Republic, Jamaica, Panama, Puerto Rico,
Tortola
Africa:
Senegal+
Asia:
India, Indonesia (Java)
Other Areas:
Hawaii

HOSTS:
Mangifera indica

RHIZASPIDIOTUS

dearnessi
(Cockerell)

Aspidiotus dearnessi Cockerell; Aspidiotus (Targionia)
helianthi Parrott; Aspidiotus (Targionia) gutierreziae
Cockerell & Parrott; Targionia dearnessi (Cockerell);
Targionia helianthi (Parrott); Targionia gutierreziae
(Cockerell & Parrott); Remotaspidotus dearnessi (Cock-
erell)

DISTRIBUTION:
AL, AZ, CA, CO, FL, GA, IN, KS, MA, MD, MO, NC, NE, NJ,
NM, NY, OK, SC, TX, UT, VA, WI
New World:
Canada, Cuba, Mexico

HOSTS:
Polyphagous

RUGASPIDIOTUS

arizonicus
(Cockerell)

Diaspis arizonicus Cockerell

DISTRIBUTION:
AZ, CA
New World:
Mexico

HOSTS:
Lysiloma

nebulosus
Ferris

DISTRIBUTION:
AZ, CA

HOSTS:
Eriogonum fasciculatum

sculpturatus
Ferris

DISTRIBUTION:
AZ

HOSTS:
Encelia farinosa, Franseria dumosa

SELENASPIDUS

albus
McKenzie

DISTRIBUTION:
CA
Africa:
Eritrea, South Africa, S. W. Africa
Europe:
Netherlands+

HOSTS:
Euphorbia

articulatus
(Morgan)

Aspidiotus articulatus Morgan; Pseudaonidia articulatus
(Morgan)

DISTRIBUTION:

FL; (CA eradicated)

New World:

Widespread south of U.S. border; Bermuda

Africa:

Angola, Benin, Cameroon, Chad, Ethiopia, Ghana, Guinea,
Ivory Coast, Kenya, Madagascar, Mauritius, Morocco+,
Mozambique, Principe, Reunion, Rhodesia, Sao Tome, Sierra
Leone, Somalia, South Africa, Tanzania, Togo, Uganda,
Zaire

Asia:

Philippines

Other Areas:

Fiji, Guam+

HOSTS:

Polyphagous; often on Citrus and palms

rubidus
McKenzie

DISTRIBUTION:

CA (not collected since 1948), TX?

Europe:

Germany

Africa:

South Africa

Asia:

China, Singapore

HOSTS:

Euphorbia

SITULASPIS

atriplicis
(Ferris)

Pseudodiaspis atriplicis Ferris

DISTRIBUTION:

AZ, CA

HOSTS:

Atriplex

condaliae
(Ferris)

Pseudodiaspis condaliae Ferris

DISTRIBUTION:
CA

HOSTS:
Condalia, C. spathulata

daleae
(Ferris)

DISTRIBUTION:
CA

HOSTS:
Dalea

yuccae
(Cockerell)

Aspidiotus yuccae Cockerell; Pseudodiaspis yuccae (Cockerell); Targionia yuccae (Cockerell); Neosignoretia yuccae (Cockerell); Xerophilaspis parkinsoniae Ferris; Pseudodiaspis parkinsoniae (Ferris); Aspidiotus yuccae var. neomexicana Cockerell & Parrott; Diaspis celtidis Cockerell

DISTRIBUTION:
AZ, CA, FL, NM, OK, TX
New World:
Mexico

HOSTS:
Polyphagous; often on Yucca

STRAMENASPIS

kelloggi
(Coleman)

Leucaspis kelloggi Coleman; Lepidosaphes kelloggi (Coleman); Dinaspis kelloggi (Coleman)

DISTRIBUTION:
AZ, CA, NM, TX, WA
New World:
Mexico

HOSTS:
Abies, Libocedrus, Pinus, Pseudotsuga, Tsuga

TARGIONIA

bigeloviae
(Cockerell)

Aspidiotus (Hemiberlesia) bigeloviae Cockerell;
Hemiberlesia bigeloviae (Cockerell); Targaspidotus bigeloviae (Cockerell)

DISTRIBUTION:

CA, TX
New World:
Mexico

HOSTS:

Asteraceae, Eriogonum fasciculatum, Gutierrezia, Haplopappus propinquus, Lepidospartum californicum

yuccarum
(Cockerell)

Aspidiotus yuccarum Cockerell; Hemiberlesia yuccarum
(Cockerell); Targaspidotus yuccarum (Cockerell)

DISTRIBUTION:

AZ, NM, TX
New World:
Mexico

HOSTS:

Polyphagous

UNASPIS

citri
(Comstock)

Chionaspis citri Comstock; Prontaspis citri (Comstock)

DISTRIBUTION:

FL, LA

New World:

Widespread south of U.S. border; Bermuda

Europe:

Azores, Greece+, Portugal, Spain+

Africa:

Benin, Cameroon, Guinea, Ivory Coast, Liberia, Madagascar, Mali, Mauritius, Nigeria, Senegal, Sierra Leone, South Africa?, Togo, Zaire

Asia:

China, Hong Kong, Indochina, Indonesia, Malaysia, Philippines+, Singapore, Thailand+

Other Areas:

Australia, Cook Is., Fiji, New Caledonia, New Guinea, New Hebrides, New Zealand, Ponape, Solomon Is., Tonga, Truk Is., Wallis Is., Western Samoa

HOSTS:

Citrus, Severina

euonymi
(Comstock)

Chionaspis euonymi Comstock

DISTRIBUTION:

AL, AR, CA, CT, DC, DE, FL, GA, IL, IN, KY, LA, MA, MD,
MI, MO, MS, NC, NE, NH, NJ, NM, NY, OH, OK, PA, RI, SC,
TN, TX, VA, WI, WV

New World:

Argentina, Canada (British Columbia), Mexico

Europe:

Austria, Bulgaria, England, France, Greece, Hungary,
Italy, Malta, Spain, Switzerland, Yugoslavia

USSR:

Armenia, Azerbaijan, Crimea, Georgia, Krasnodar, Ukraine,
Uzbek SSR

Africa:

Algeria, Morocco

Asia:

China, Hong Kong, Israel, Japan, Korea, Turkey

HOSTS:

Celastrus, Euonymus, Ilex, Pachysandra

VELATASPIS

anasterias
Ferris

DISTRIBUTION:

TX

New World:

Mexico, Nicaragua, Panama

HOSTS:

Acacia constricta, A. vernicosa, Mimosa

dentata
(Hoke)

Scobinaspis dentata Hoke; Lepidosaphes dentata (Hoke)

DISTRIBUTION:

AL, FL, GA, LA, MS, TN, TX

New World:

Panama

HOSTS:

Polyphagous

mimosarum
(Cockerell)

Mytilaspis mimosarum Cockerell; Lepidosaphes mimosarum
(Cockerell); Lepidosaphes chilopsidis Marlatt

DISTRIBUTION:
TX
New World:
Guatemala, Mexico

HOSTS:
Acacia, Carya illinoensis, Castela nicholsoni, Cercidium floridum, Mimosa, Pithecellobium, Prosopis, Psidium, Strombocarpa cinerescens

XEROPHILASPIS

prosopidis
Cockerell

DISTRIBUTION:
AZ, CA, TX
New World:
Mexico

HOSTS:
Prosopis, P. chilensis, P. velutina

ADDENDUM

CIRCULASPIS

fistulella
Ferris

DISTRIBUTION:
FL, GA, TX

HOSTS:
Distichilis, D. spicata, Sporolobus

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TWO LETTER ABBREVIATIONS OF STATES

ALABAMA	AL	MONTANA	MT
ALASKA	AK	NEBRASKA	NE
ARIZONA	AZ	NEVADA	NV
CALIFORNIA	CA	NEW HAMPSHIRE	NH
COLORADO	CO	NEW JERSEY	NJ
CONNECTICUT	CT	NEW MEXICO	NM
DELAWARE	DE	NEW YORK	NY
DIST. OF COLUMBIA	DC	NORTH CAROLINA	NC
FLORIDA	FL	NORTH DAKOTA	ND
GEORGIA	GA	OHIO	OH
HAWAII	HI	OKLAHOMA	OK
IDAHO	ID	OREGON	OR
ILLINOIS	IL	PENNSYLVANIA	PA
INDIANA	IN	RHODE ISLAND	RI
IOWA	IA	SOUTH CAROLINA	SC
KANSAS	KS	SOUTH DAKOTA	SD
KENTUCKY	KY	TENNESSEE	TN
LOUISIANA	LA	TEXAS	TX
MAINE	ME	UTAH	UT
MARYLAND	MD	VERMONT	VT
MASSACHUSETTS	MA	VIRGINIA	VA
MICHIGAN	MI	WASHINGTON	WA
MINNESOTA	MN	WEST VIRGINIA	WV
MISSISSIPPI	MS	WISCONSIN	WI
MISSOURI	MO	WYOMING	WY

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