

NOWRAMP 2000 Terrestrial Arthropod Report

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The NOWRAMP Expedition 2000, though focused on marine elements, included a terrestrial arthropod component. This paper reports the findings on the terrestrial arthropods recovered during the expedition and includes previously unidentified specimens uncovered in the Bishop Museum collection and not reported. The dates and islands visited are listed in Table 1.

Table 1. Dates and Islands visited by the NOWRAMP 2000 Expedition.

Date(s)	Island or Atoll
September 9-21	Nihoa Island
September 21-23	Necker Island
September 24-27	French Frigate Shoals (Tern Island)
September 29-30	Midway Atoll (Sand Island)
October 1-5	Kure Atoll (Green Island)
October 6-7	Midway Atoll (Sand Island)
October 8-12	Pearl and Hermes Atoll (Southeast Island)
October 14	Laysan Island
October 15-16	Maro Reef (no terrestrial arthropods collected)
October 17	Gardner Pinnacles

As shown by Table 1, the amount of time spent on each island or atoll varied and so the species survey is uneven. Night collecting and Malaise trapping was not done on Laysan and Gardner Pinnacles. Lisianski was not surveyed for arthropods and may be underrepresented in species, particularly aliens. Though the most time was spent on Nihoa (10 days), the first leg of the expedition to Nihoa suffered from extremely dry conditions and collecting was not optimal. Early collections on Nihoa were most successful in areas of seeps. As the expedition moved northward, rain improved collecting conditions. During the Nihoa leg, towards the end of the stay there, rain squalls began passing over the island. The first large squall dropped a significant amount of moisture but only on the northern third of the island. Insect activity increased significantly in that area within a few days of that drenching as many of the plants flushed.

At this time, a few groups remain unidentified (e.g. springtails, aphids, thrips, scales), and so the analysis of the results must be considered carefully. A checklist of the species collected by island or atoll is available in Appendix 1. Preliminary results on the terrestrial arthropod surveys confirm the general impressions gathered during the expedition. Despite the extreme isolation of the islands and the protection afforded by the Fish & Wildlife Service, alien species preponderance and in some cases, domination, was the standard on most islands and atolls. The present checklist of species for the Northwestern Hawaiian Islands (excluding Midway) contains 2/3 (66.67%) non-native species. In contrast, the main Hawaiian Islands harbor about 1/3 (37.33%) alien species (see Table 2). As more species identifications are completed for the northwestern islands, the percentage of aliens is likely to increase.

Table 2. Numbers and percentage of native vs. non-native species by island or atoll.

	Nihoa	Necker	Laysan	French Frigate Shoals	Gardner	Lisianski	Pearl & Hermes	Kure
endemic	72	29	51	16	6	9	16	11
indigenous	11	11	34	9	1	8	10	9
adventive	118	40	140	78	6	40	76	132
introduced	9	2	4	4			2	9
status ?	23	3	6	2			2	3
Totals	233	85	235	109	13	58	106	164
%natives	35.62	47.06	36.17	22.94	53.85	29.31	24.53	12.20
%aliens	54.51	49.41	61.28	75.23	46.15	70.69	73.58	85.98

The total number of species now recorded from the Northwestern Hawaiian Islands (not including Midway) is 573. A breakdown of the number of species per island by ordinal group is listed in Table 3.

Table 3. Numbers of species by island by group.

	Nihoa	Necker	Laysan	French Frigate Shoals	Gardner Pinnacles	Lisianski	Pearl and Hermes	Kure
ARACHNIDA	42	9	35	13	4	6	16	36
Acari	31	2	22	5	2	4	13	25
Araneae	10	7	12	8	2	2	3	11
Pseudo-scorpionida			1					
INSECTA	181	70	194	94	12	45	87	124
Blattodea	4	2	5	3		2	3	4
Coleoptera	36	11	35	8	1	3	11	19
Collembola	2		5	3			10	4
Dermaptera	4	1	4	3	2	2	3	2
Diptera	31	13	31	19	1	20	16	25
Embiidina	1	2	2	1			1	
Heteroptera	15	4	9	9			8	8
Homoptera	10	7	15	9		4	8	12
Hymenoptera	41	7	21	14		4	7	23
Isoptera	1		1	1		1		
Lepidoptera	23	14	32	16	2	6	15	13
Neuroptera			1				1	2
Odonata				1				1
Orthoptera	5	2	1	4		1		3
Phthiraptera		3	24	1	1		3	3
Psocoptera	3		3	1		1		2
Siphonaptera	1		1				1	
Thysanoptera	2	3	4	1		1		3
Thysanura	2	1			1			
CHILOPODA	3	3	1	2			1	2
DIPLOPODA					1			
ANOSTRACA			1					
ISOPODA	3	3	4	3		3	5	3
AMPHIPODA			1					
TOTALS	229	85	236	112	13	54	109	165

In an effort to be as complete as possible, species listed in previous reports to the U.S. Fish & Wildlife Service (see Appendix 1) are included in these tables. By comparing species recovered by all recent visits to the Northwestern Hawaiian Islands to literature records, some trends are suggested.

Of some concern is the current status of many of the endemic species known to occupy the various islands and atolls. The high alien presence combined with the low level of recovery of native species (see Table 3), suggests that native populations of the Northwestern Hawaiian Islands may be highly threatened and some are likely already extinct. Table 3 indicates that 57% of the native fauna was not collected in recent years, 43% was recollected.

A large number of introduced species were not recovered either, perhaps suggesting that the pattern of occupation for invading species is a shifting mosaic, with species able to occupy for a brief period and then either dying out or being displaced by another species. Table 3 shows 67% not recollected, an even higher rate than the native species.

Low population levels or seasonal absence may be partial explanations for the poor recovery rate, but competitive displacement by alien species, incursion of weeds and other perturbations including climatic change should be studied to better understand their effects on ecological imbalance on each of the northwestern islands and atolls.

Table 3. Comparison of known species to those recovered by group. [note: groups that have not been completely identified yet are omitted; recovery from all islands lumped].

	Native: not recovered	Native: recovered	Native: total	Alien: not recovered	Alien: recovered	Alien: total	New Island records
Araneae	1	2	5	17	6	23	25
Pseudoscorpionida	1		1				1
Blattodea				10	10	20	3
Coleoptera	21	20	41	37	24	61	19
Dermaptera	8	5	13	4	2	6	1
Diptera	25	21	46	56	19	75	30
Embiidina				4	2	6	1
Heteroptera	13	9	22	10	13	23	10
Hymenoptera	3	6	9	45	20	65	40
Isoptera				3		3	1
Lepidoptera	20	9	29	45	20	65	21
Neuroptera				3		3	1
Odonata	1	1	2				
Orthoptera		3	3	3	8	11	2
Thysanura				1	1	2	1
CHILOPODA	4	1	5	1		1	6
DIPLOPODA							1
ANOSTRACA	1		1				1
ISOPODA	6		6	16		16	1
AMPHIPODA							1
TOTALS	104	77	181	255	125	380	165
Percentage	57%	43%		67%	33%		

Ants are responsible for the most serious disturbances and are particularly disruptive on Kure and somewhat less so on Pearl and Hermes. Many pest species are undoubtedly moving up the chain from source areas in the lower islands or spreading from areas of high alien presence such as Midway. An example of a highly visible species able to disperse in this fashion is the vagrant grasshopper, *Schistocerca nitens*, which was first collected on Sand Island on Oahu in 1964. This grasshopper has now spread as far north as French Frigate Shoals, and is likely to continue.

The limited number of resources on each of these atolls combined with the poor recovery rate of native species should be impetus for studies to establish the threatened or endangered status of the native arthropods in these poorly understood localities.

Appendix 1.

CHECKLIST OF TERRESTRIAL ARTHROPODS OF THE NORTHWEST HAWAIIAN ISLANDS (excluding Midway)

(Lit=literature record; Rpt=unpublished? report submitted to U.S. Fish & Wildlife; Coll=previously unidentified material in Bishop Museum collections)
(Unpublished reports by J.W. Beardsley 1962, 1964; S. Conant 1980-81; W.C. Gagné 1983; J. Strazanac 1990; A. Asquith 1994; P. Conant & C. Rowland 1996). 00=NOWRAMP Expedition 2000, G.M. Nishida. The entries in red are new island records.

FRENCH FRIGATE SHOALS

ARACHNIDA (13)

Acari (5)

Argasidae

Ornithodoros capensis Neumann, 1901 adventive Lit

Halarachnididae

Halarachne laysanae Furman & Dailey, 1980 endemic Lit

Ixodidae

Ixodes laysanensis Wilson, 1964 endemic? Lit Rpt

Oribatulidae

Phaulopippia bryani Jacot, 1934 endemic Lit Rpt

Trombiculidae

Neoschoengastia atollensis Wharton & Hardcastle, 1946 adventive Lit Rpt

Araneae (8)

Clubionidae

Cheiracanthium mordax L. Koch, 1866 adventive **pale leaf spider** Lit

Lycosidae

Lycosa oahuensis Keyserling, 1890 endemic Coll

Salticidae

Hasarius adansoni (Audouin, 1826) adventive Lit

Menemerus bivittatus (Dufour 1831) adventive 00

Scytodidae

Scytodes striatipes (L. Koch, 1872) adventive 00

Theridiidae

Latrodectus geometricus C.L. Koch, 1841 adventive **brown widow spider** Lit

Latrodectus hesperus Chamberlin & Ivie, 1935 adventive **western black widow spider** Lit

Nesticodes rufipes (Lucas, 1846) adventive 00

INSECTA

Blattodea (3)

Blaberidae

Pycnoscelus indicus (Fabricius, 1775) adventive **burrowing cockroach** Lit

Blattidae

Neostylopyga rhombifolia (Stoll, 1813) adventive **harlequin cockroach** Coll

Periplaneta americana (Linnaeus, 1758) adventive **American cockroach** Lit Rpt

Coleoptera (8)

Coccinellidae

Diomus notescens (Blackburn, 1889) purposely introduced Rpt 00

Nephus bilucernarius (Mulsant, 1850) purposely introduced Rpt 00

Scymnus loewii Mulsant, 1850 purposely introduced Lit

Curculionidae

Dryotribus mimeticus Horn, 1873 adventive Lit Rpt

Dryotribus wilderi Perkins, 1916 indigenous Lit Rpt

Dermestidae

Dermestes ater DeGeer, 1774 indigenous? **black larder beetle** Lit 00

Scolytidae

genus? species? Rpt

Tenebrionidae

Alphitobius laevigatus (Fabricius, 1781) adventive **black fungus beetle** Lit 00

Collembola (3)

Entomobryidae

Entomobrya nyhusae Christiansen & Bellinger, 1992 endemic Lit

Salina celebensis (Schaeffer, 1898) adventive Lit

Seira terrestris (Folsom, 1932) adventive Lit

Dermoptera (3)			
Carcinophoridae			
<i>Anisolabis maritima</i> (Bonelli, 1832) indigenous	Lit	.....	Rpt
<i>Euborellia annulipes</i> (Lucas, 1847) adventive ringlegged earwig	Lit	.....
<i>Euborellia eteronoma</i> (Borelli, 1909) endemic.....	Lit	.....
Diptera (19)			
Agromyzidae			
<i>Liriomyza sativae</i> Blanchard, 1938 adventive vegetable leafminer .....	.....	.....	00
<i>Liriomyza trifolii</i> (Burgess, 1880) adventive celery leafminer.....	.....	.....	Coll
Calliphoridae			
<i>Lucilia graphita</i> Shannon, 1926 endemic .....	.....	.....	Coll
<i>Lucilia sericata</i> (Meigen, 1826) adventive greenbottle fly .....	.....	.....	Rpt
Chloropidae			
<i>Cadrema pallida</i> (Loew, 1865) adventive.....	.....	.....	Rpt
<i>Siphunculina striolata</i> (Wiedemann, 1830) adventive.....	.....	.....	Lit
Dolichopodidae			
<i>Dolichopus exsul</i> Aldrich, 1922 adventive .....	.....	.....	Coll
<i>Thambemyia acrosticalis</i> (Parent, 1937) endemic?.....	.....	.....	Lit Rpt
Ephydriidae			
<i>Hecamede granifera</i> (Thomson, 1869) adventive .....	.....	.....	Lit
Hippoboscidae			
<i>Olfersia aenescens</i> Thomson, 1869 indigenous? .....	.....	.....	Lit Rpt
<i>Olfersia spinifera</i> (Leach, 1818) indigenous? frigate bird fly.....	.....	.....	Lit Rpt
Sarcophagidae			
<i>Goniophyo bryani</i> Lopes, 1938 indigenous.....	.....	.....	Lit Rpt
<i>Sarcophaga peregrina</i> (Robineau-Desvoidy, 1830) adventive .....	.....	.....	Rpt
<i>Sarcophaga ruficornis</i> (Fabricius, 1794) adventive .....	.....	.....	Coll
Sphaeroceridae			
<i>Coproica hirtula</i> (Rondani, 1880)) adventive .....	.....	.....	Lit
Syrphidae			
<i>Simosyrphus grandicornis</i> (Macquart, 1842) adventive.....	.....	.....	Lit
Tephritidae			
<i>Acinia picturata</i> (Snow, 1894) purposely introduced sourbush seed fly.....	.....	.....	Rpt
Tethinidae			
<i>Dasyrhicnoessa insularis</i> (Aldrich, 1931) indigenous?.....	.....	.....	Lit Rpt
<i>Tethina willistoni</i> (Melander, 1913) adventive.....	.....	.....	Lit
Embiidina (1)			
Oligotomidae			
<i>Oligotoma saundersii</i> (Westwood, 1837) adventive Saunders embiid.....	.....	.....	Coll
Heteroptera (9)			
Anthocoridae			
<i>Orius persequens</i> (White, 1877) adventive.....	.....	.....	Rpt
Cydidae			
<i>Geotomus pygmaeus</i> (Dallas, 1851) adventive oceanic burrower bug.....	.....	.....	Rpt
Lygaeidae			
<i>Nysius coenosulus</i> Stal, 1859 endemic .....	.....	.....	Lit
<i>Nysius frigatensis</i> Usinger, 1942 endemic C2 French Frigate Shoal seed bug.....	.....	.....	Rpt
<i>Nysius palor</i> Ashlock, 1963 adventive?.....	.....	.....	00
Miridae			
<i>Coridromius variegatus</i> (Montrouzier, 1861) adventive.....	.....	.....	Lit Rpt
<i>Rhinacloa forticornis</i> Reuter, 1876 adventive western plant bug.....	.....	.....	Rpt
Nabidae			
<i>Nabis capsiformis</i> Germar, 1837 adventive pale damsel bug.....	.....	.....	Lit Rpt
Rhopalidae			
<i>Liorhyssus hyalinus</i> (Fabricius, 1794) adventive hyaline grass bug.....	.....	.....	Rpt
<i>00,Coll</i>			
Homoptera (9)			
Aphididae			
<i>Aphis craccivora</i> C.L. Koch, 1854 adventive cowpea aphid.....	.....	.....	Lit
<i>Aphis gossypii</i> Glover, 1877 adventive cotton aphid, melon aphid.....	.....	.....	Lit
Cicadellidae			
<i>Deltoccephalus sonorus</i> Ball, 1900 adventive.....	.....	.....	00
Coccidae			
<i>Saissetia oleae</i> (Olivier, 1791) adventive black scale.....	.....	.....	Lit

Delphacidae			
	Sardia rostrata pluto (Kirkaldy, 1906) adventive	Rpt	
Diaspididae			
	Hemiberlesia lataniae (Signoret, 1869) adventive latania scale	Lit	
	Odonaspis ruthae Kotinsky, 1915 adventive ruth grass scale	Lit	
Margarodidae			
	Icerya purchasi Maskell, 1878 adventive cottony cushion scale	Lit	00
Pseudococcidae			
	Ferrisia virgata (Cockerell, 1893) adventive striped mealybug	Lit	
Hymenoptera (14)			
Braconidae			
	Apanteles cf. carpatus (Say, 1836) adventive	Coll	
	Cotesia marginiventris (Cresson, 1865) purposely introduced lawn armyworm parasite	Rpt	
Eulophidae			
	Hemiptarsenus semialbiclavus (Girault, 1916) adventive.....	Lit	Coll
Formicidae			
	Cardiocondyla nuda (Mayr, 1866) adventive	Lit	
	Hypoponera punctatissima (Roger, 1859) adventive.....	Lit	
	Monomorium destructor (Jerdon, 1851) adventive.....	Lit	
	Monomorium floricense (Jerdon, 1851) adventive	Lit	Rpt
	Monomorium pharaonis (Linnaeus, 1758) adventive Pharaoh ant	Lit	
	Paratrechina longicornis (Latreille, 1802) adventive crazy ant	Lit	
	Pheidole megacephala (Fabricius, 1793) adventive bigheaded ant	Rpt	00
	Tapinoma melanocephalum (Fabricius, 1793) adventive tiny yellow house ant	Rpt	
	Tetramorium bicarinatum (Nylander, 1847) adventive Guinea ant	Lit	Rpt
	Tetramorium tonganum Mayr, 1870 adventive.....	Lit	
Megachilidae			
	Megachile sp.....	Rpt	
Isoptera (1)			
Kalotermitidae			
	Cryptotermes brevis (Walker, 1853) adventive West Indian drywood termite	Lit	
Lepidoptera (16)			
Cosmopterygidae			
	Asymphorodes dimorpha (Busck, 1914) adventive	Rpt	00
	Hyposmocoma sp.....	Rpt	
Crambidae			
	Herpetogramma licarsialis (Walker, 1859) adventive grass webworm	Coll	
	Spoladea recurvalis (Fabricius, 1775) adventive Hawaiian beet webworm	Lit	00
Noctuidae			
	Agrotis dislocata (Walker, 1856) endemic smaller Hawaiian cutworm	Rpt	
	Agrotis epsilon (Hufnagel, 1767) adventive black cutworm	Lit	
	Agrotis kerri (Swezey, 1920) endemic C3A Kerr's agrotis noctuid moth.....	Lit	
	Chrysodeixis eriosoma (Doubleday, 1843) adventive green garden looper	Lit	Rpt
	Spodoptera exempta (Walker, 1856) adventive nutgrass armyworm	Lit	
	Spodoptera mauritia (Boisduval, 1833) adventive lawn armyworm	Lit	
Olethreutidae			
	Crocidosema leprara (Walsingham, 1907) endemic?.....	Rpt	
Pterophoridae			
	Megalorhipida leucodactylus (Fabricius, 1793) adventive.....	Lit	
Sphingidae			
	Agrius cingulata (Fabricius, 1775) adventive sweetpotato hornworm	Coll	
Tineidae			
	Decadarchis kerri (Swezey, 1926) adventive.....	Lit	
	Monopis meliorella (Walker, 1863) adventive	Rpt	
	Phereoeca allutella (Rebel, 1892) adventive.....	Lit	
Odonata (1)			
Libellulidae			
	Pantala flavescens (Fabricius, 1798) indigenous globe skimmer	Lit	
Orthoptera (4)			
Acrididae			
	Schistocerca nitens (Thunberg, 1915) adventive vagrant grasshopper	Rpt	
	00,Coll		
Gryllidae			

Gryllodes sigillatus (Walker, 1869) adventive	flightless field cricket	Lit	Rpt
Teleogryllus oceanicus (Le Guillou, 1841) adventive	oceanic field cricket	Lit	
Trigonidomorpha sjostedti Chopard, 1926 adventive		Lit	
Phthiraptera (1)			
Philopteridae			
Pectinopygus sulae (Rudow, 1869) indigenous			Coll
Psocoptera (1)			
Lepidopsocidae			
Cyptophania hirsuta Banks, 1931 adventive			Rpt
Thysanoptera (1)			
Thripidae			
Frankliniella schultzei (Trybom, 1910) adventive	yellow flower thrips	Lit	
CHILOPODA			
Lithobiomorpha (2)			
Lithobiidae			
Lithobius sp. nr. forficatus (Linnaeus, 1758) adventive			Coll
Schendylidae			
Nyctunguis bryanus Chamberlin, 1926 endemic			00?
CRUSTACEA			
Isopoda (3)			
Ligidae			
Ligia hawaiensis (Dana, 1853) endemic			Lit
Porcellionidae			
Porcellio lamellatus Budde-Lund, 1885 adventive			Lit
Porcellionides pruinosus (Brandt, 1833) adventive			Lit
GARDNER PINNACLES			
ARACHNIDA			
Acarı (2)			
Argasidae			
Ornithodoros capensis Neumann, 1901 adventive			Lit
Ixodidae			
Ixodes laysanensis Wilson, 1964 endemic?			Lit
Araneae (2)			
Lycosidae			
Lycosa sp. endemic?			00
Segestriidae			
Ariadna perkinsi Simon, 1900 endemic			00
INSECTA			
Coleoptera (1)			
Curculionidae			
Nothoperissops frenata Marshall, 1959 adventive			Lit
Dermoptera (2)			
Carcinophoridae			
Anisolabis maritima (Bonelli, 1832) indigenous			Lit
Euborellia eteronoma (Borelli, 1909) endemic			Lit
Diptera (1)			
Milichiidae			
Milichia orientalis Malloch, 1913 adventive			Lit
Lepidoptera (2)			
Cosmopterigidae			
Hyposmocoma neckerensis (Swezey, 1926) endemic	C2* Necker petrochroan leaf miner	Lit	00
Tineidae			
Monopis meliorella (Walker, 1863) adventive			Lit

Phthiraptera (1)		
Philopteridae		
<i>Brueelia vulgata</i> (Kellogg, 1896) adventive.....	Lit	
Thysanura (1)		
Lepismatidae		
<i>Acrotelsa hawaiiensis</i> (Silvestri, 1904) adventive.....	00	00
DIPLOPODA		
Spirostreptida		
Cambalidae		
<i>Nannolene</i> sp.....		00
KURE		
ARACHNIDA		
Acari (25)		
Argasidae		
<i>Ornithodoros capensis</i> Neumann, 1901 adventive	Lit	
Ascidae		
<i>Asca pineta</i> De Leon, 1967 adventive.....	Lit	
<i>Asca quinquesetosa</i> Wharton, 1941 adventive.....	Lit	
<i>Protogamasellus massula</i> [sp.nr.] (Athias Henriot, 1961) endemic?	Lit	
Bdellidae		
<i>Bdellodes longirostris</i> (Hermann, 1804) adventive.....	Lit	
Bimichaeliidae		
<i>Bimichaelia</i> sp. - 1983 ?.....	Lit	
Carabodidae		
<i>Carabodes</i> sp. - 1963 ?.....	Lit	
Cheyletidae		
<i>Hemicheyletia bakeri</i> (Ehara, 1962) adventive.....	Lit	
<i>Hemicheyletia granula</i> Summers & Price, 1970 endemic.....	Lit	
<i>Hemicheyletia kureatollensis</i> Goff, 1982 endemic	Lit	
Cunaxidae		
<i>Dactyloscirus inermis</i> (Tragardh, 1905) adventive.....	Lit	
Halarachnidae		
<i>Halarachne laysanae</i> Furman & Dailey, 1980 endemic.....	Lit	
Laelapidae		
<i>Hypoaspis miles</i> (Berlese, 1892) adventive.....	Lit	
<i>Hypoaspis scimita</i> (Womersley, 1956) adventive.....	Lit	
<i>Laelaps echidnina</i> Berlese, 1887 adventive.....	Lit	
<i>Laelaps nuttalli</i> Hirst, 1915 adventive.....	Lit	
Myobiidae		
<i>Radfordia ensifera</i> (Poppe, 1896) adventive.....	Lit	
Phytoseiidae		
<i>Amblyseius largoensis</i> (Muma, 1955) adventive.....	Lit	
Rhodacaridae		
<i>Rhodacarus</i> sp. - 1983 ?.....	Lit	
Stigmaeidae		
<i>Eustigmaeus segnis</i> (C.L. Koch, 1836) adventive.....	Lit	
Tenuipalpidae		
<i>Brevipalpus obovatus</i> Donnadieu, 1875 adventive privet mite	Lit	
Tetranychidae		
<i>Tetranychus cinnabarinus</i> (Boisduval, 1867) adventive carmine spider mite	Lit	
<i>Tetranychus neocalidonicus</i> (Andre, 1933) adventive vegetable mite	Lit	
<i>Tetranychus telarius</i> (Linnaeus, 1758) adventive.....	Lit	
Uropodidae		
<i>Uropoda</i> sp. - 1947 ?	Lit	
Araneae (11)		
Araneidae		
<i>Neoscona oaxacensis</i> (Keyserling, 1864) adventive.....	Lit	
<i>Neoscona theisi</i> (Walckenaer, 1841) adventive.....	00	00
Clubionidae		
<i>Cheiracanthium mordax</i> L. Koch, 1866 adventive pale leaf spider	Lit	00
Pholcidae		
<i>Smerningopus pallidus</i> (Blackwall, 1858) adventive.....	00	00

Salticidae			
<i>Hasarius adansonii</i> (Audouin, 1826) adventive.....	Lit		
<i>Menemerus bivittatus</i> (Dufour 1831) adventive.....		00	
<i>Messua sp. cf. felix</i> (Peckham & Peckham, 1901) adventive.....		00	
<i>Plexippus paykulli</i> (Audouin, 1826) adventive.....		00	
<i>Sandalodes sp.</i>		00	
Scytodidae			
<i>Scytodes lugubris</i> (Thorell, 1887) adventive.....	Lit		
<i>Scytodes striatipes</i> (L. Koch, 1872) adventive.....	Lit		
INSECTA			
Blattodea (4)			
Blaberidae			
<i>Pycnoscelus indicus</i> (Fabricius, 1775) adventive burrowing cockroach	Lit		
Blattellidae			
<i>Balta notulata</i> (Stål, 1861) adventive.....	Lit		00
Blattidae			
<i>Periplaneta australasiae</i> (Fabricius, 1775) adventive Australian cockroach	Lit		
<i>Platzostera soror</i> (Brunner, 1865) adventive whitemargined cockroach	Lit		
Coleoptera (19)			
Anthribidae			
<i>Araecerus fasciculatus</i> (DeGeer, 1775) adventive coffee bean weevil	Lit		
Coccinellidae			
<i>Coelophora inaequalis</i> (Fabricius, 1775) purposely introduced common Australian lady beetle	Lit		00
<i>Cryptolaemus montrouzieri</i> Mulsant, 1853 purposely introduced mealybug destroyer		00	
<i>Diomus notescens</i> (Blackburn, 1889) purposely introduced.....	Lit		00
<i>Rodolia cardinalis</i> (Mulsant, 1850) purposely introduced vedalia		00	
<i>Scymnus loewii</i> Mulsant, 1850 purposely introduced	Lit		
Corylophidae			
<i>Sericoderus minutus</i> Matthews, 1894 adventive?	Lit		
Cucujidae			
<i>Cryptamorpha desjardinsi</i> (Guerin-Meneville, 1844) adventive.....	Lit		
Curculionidae			
<i>Dryophthorus distinguendus</i> Perkins, 1900 endemic	Lit		
<i>Dryotribus wilderi</i> Perkins, 1916 indigenous	Lit		
<i>Pentarthrum halodorum</i> Perkins, 1926 adventive.....	Lit		
Dermestidae			
<i>Dermestes ater</i> DeGeer, 1774 indigenous? black larder beetle	Lit		
<i>Dermestes maculatus</i> DeGeer, 1774 indigenous hide beetle	Lit		
Elateridae			
<i>Conoderus pallipes</i> (Eschscholtz, 1830) adventive.....	Lit		
Scarabaeidae			
<i>Pleurophorus micros</i> (Bates, 1887) adventive?	Lit		
<i>Saprosites pygmaeus</i> Harold, 1877 adventive.....	Lit		
Scolytidae			
<i>Hypothenemus eruditus</i> (Westwood, 1835) adventive	Lit		00
Staphylinidae			
<i>Sunius debilicornis</i> (Wollaston, 1857) adventive.....	Lit		
Tenebrionidae			
<i>Gonocephalum adpressiforme</i> Kaszab, 1951 adventive	Lit		
Collembola (4)			
Entomobryidae			
<i>Entomobrya marginata</i> (Tullberg, 1871) adventive.....	Lit		
<i>Seira terrestris</i> (Folsom, 1932) adventive.....	Lit		
Hypogastruridae			
<i>Brachystomella parvula</i> (Schaeffer, 1896) adventive.....	Lit		
Isotomidae			
<i>Cryptopygus thermophilus</i> (Axelson, 1902) adventive.....	Lit		
Dermaptera (2)			
Carcinophoridae			
<i>Anisolabis maritima</i> (Bonelli, 1832) indigenous	Lit		
<i>Euborellia annulipes</i> (Lucas, 1847) adventive ringlegged earwig	Lit		

Diptera (25)			
Agromyzidae			
<i>Calycomyza humeralis</i> (Roser, 1840) adventive aster leafminer	.....	Lit	
<i>Liriomyza sativae</i> Blanchard, 1938 adventive vegetable leafminer	.....		00
<i>Pseudonapomyza spicata</i> (Malloch, 1914) adventive	.....	Lit	
Asteiidae			
<i>Bryania bipunctata</i> Aldrich, 1931 endemic C2 Nihoa two-spotted asteriid fly	.....	Lit	
Calliphoridae			
<i>Chrysomya megacephala</i> (Fabricius, 1794) adventive oriental blow fly	.....	Lit	
<i>Lucilia cuprina</i> (Wiedemann, 1830) adventive bronzebottle fly	.....	Lit	
Chloropidae			
<i>Cadrema pallida</i> (Loew, 1865) adventive	.....	Lit	
<i>Liohippelates collusor</i> (Townsend, 1895) adventive	.....	Lit	
<i>Siphunculina striolata</i> (Wiedemann, 1830) adventive	.....	Lit	00
Culicidae			
<i>Culex quinquefasciatus</i> Say, 1823 adventive southern house mosquito	.....	Lit	
Dolichopodidae			
<i>Chrysosoma globiferum</i> (Wiedemann, 1830) adventive	.....	Lit	
<i>Sciapodinae</i> sp.	.....		00
Ephydriidae			
<i>Hecamede granifera</i> (Thomson, 1869) adventive	.....	Lit	
Fanniidae			
<i>Fannia canicularis</i> (Linnaeus, 1761) adventive little house fly	.....	Lit	
Hippoboscidae			
<i>Olfersia aenescens</i> Thomson, 1869 indigenous?	.....	Lit	
Milichiidae			
<i>Milichiella lacteipennis</i> (Loew, 1865) adventive	.....	Lit	
Muscidae			
<i>Hydrotaea chalcogaster</i> (Wiedemann, 1824) adventive	.....	Lit	
<i>Musca domestica</i> Linnaeus, 1758) adventive house fly	.....	Lit	
Otitidae			
Genus? species?	.....		00
Sarcophagidae			
<i>Goniophyo bryani</i> Lopes, 1938 indigenous	.....	Lit	
<i>Sarcophaga argyrostoma</i> (Robineau-Desvoidy, 1830) adventive	.....	Lit	
Scenopinidae			
<i>Scenopinus lucidus</i> Becker, 1902 adventive	.....	Lit	
Sciaridae			
<i>Bradyzia molokaiensis</i> (Grimshaw, 1901) endemic	.....	Lit	
Sphaeroceridae			
<i>Coproica hirtula</i> (Rondani, 1880) adventive	.....	Lit	
Syrphidae			
<i>Simosyrphus grandicornis</i> (Macquart, 1842) adventive	.....	Lit	00
Heteroptera (8)			
Anthocoridae			
<i>Orius persequens</i> (White, 1877) adventive	.....	Lit	
Cydnidae			
<i>Microporus shiromai</i> Froeschner, 1977 adventive	.....		00
Gerridae			
<i>Halobates sericeus</i> Eschscholtz, 1822 indigenous Pacific pelagic water strider	.....		00
Lygaeidae			
<i>Nysius fullawayi fullawayi</i> Usinger, 1942 endemic C2 Fullaway's seed bug	.....	Lit	
<i>Nysius palor</i> Ashlock, 1963 adventive?	.....	Lit	00
Miridae			
<i>Coridromius variegatus</i> (Montrouzier)	.....		Rep
<i>Engyptatus modestus</i> (Distant, 1893) adventive tomato bug	.....	Lit	00
Nabidae			
<i>Nabis capsiformis</i> Germar, 1837 adventive pale damsel bug	.....	Lit	
Homoptera (12)			
Aphididae			
<i>Rhopalosiphum maidis</i> (Fitch, 1854) adventive corn leaf aphid	.....	Lit	
Cicadellidae			
<i>Circulifer tenellus</i> (Baker, 1896) adventive beet leafhopper	.....	Lit	
<i>Deltocephalus sonorus</i> Ball, 1900 adventive	.....	Lit	Rpt
<i>Empoasca solana</i> DeLong, 1931 adventive southern garden leafhopper	.....	Lit	00

Delphacidae			
	Opiconsiva paludum (Kirkaldy, 1910) adventive.....	Lit	
	Syndelphax disonymus (Kirkaldy) adventive New State Record	00	00
	Toya dryope (Kirkaldy, 1907) adventive.....		00
Diaspididae			
	Hemiberlesia lataniae (Signoret, 1869) adventive latania scale	Lit	
	Odonaspis ruthae Kotinsky, 1915 adventive ruth grass scale	Lit	
Margarodidae			
	Icerya purchasi Maskell, 1878 adventive cottony cushion scale	Lit	00
Pseudococcidae			
	Antonina graminis (Maskell, 1897) adventive rhodesgrass mealybug	Lit	
	Ferrisia virgata (Cockerell, 1893) adventive striped mealybug	Lit	
Hymenoptera (23)			
Anthophoridae			
	Ceratina arizonensis Cockerell, 1898 adventive		00
Aphidiidae			
	Lysiphlebus testaceipes (Cresson, 1880) purposely introduced/adventive.....		00
Braconidae			
	Chelonus blackburni Cameron, 1887 adventive.....	Lit	00
	Cotesia marginiventris (Cresson, 1865) purposely introduced lawn armyworm parasite	Lit	
Encyrtidae			
	Anagyrus swetzeyi Timberlake, 1919 adventive.....	Lit	
	Blepyrus insularis (Cameron, 1886) adventive	Lit	
	Leptomastidea abnormis (Girault, 1915) purposely introduced/adventive Sicilian mealybug parasite		00
	Metaphycus flavus (Howard, 1881) adventive.....		00
Eucoilidae			
	Disorygma pacifica (Yoshimoto, 1962) adventive.....	Lit	
Eulophidae			
	Neochrysocharis formosa (Westwood, 1833) adventive		00
	Hemiptarsenus semialbiclavus (Girault, 1916) adventive.....		00
Formicidae			
	Cardiocondyla nuda (Mayr, 1866) adventive	Lit	
	Hypoponera punctatissima (Roger, 1859) adventive.....	Lit	
	Pheidole megacephala (Fabricius, 1793) adventive.....		00
	Tapinoma melanocephalum (Fabricius, 1793) adventive tiny yellow house ant	Lit	
	Tetramorium bicarinatum (Nylander, 1847) adventive Guinea ant	Lit	
	Tetramorium tonganum Mayr, 1870 adventive.....	Lit	
Ichneumonidae			
	Diplazon laetatorius (Fabricius, 1781) adventive	Lit	
	Venturia sp. - 1963 ?	Lit	
Mymaridae			
	Stephanodes reduvioli (Perkins, 1905) adventive.....	Lit	
Pteromalidae			
	Halticoptera circulus (Walker, 1833) adventive.....		00
	Idris sp.....		00
Vespidae			
	Polistes aurifer Saussure, 1853 adventive golden paper wasp	Lit	
Lepidoptera (13)			
Cosmopterigidae			
	Asymphorodes dimorpha (Busck, 1914) adventive	Lit	00
Crambidae			
	Hellula phidilealis (Walker, 1859) adventive	Lit	
	Hellula undalis (Fabricius, 1781) adventive		00
Noctuidae			
	Agrotis ipsilon (Hufnagel, 1767) adventive black cutworm	Lit	
	Chrysodeixis eriosoma (Doubleday, 1843) adventive green garden looper	Lit	
	Helicoverpa zea (Boddie, 1850) adventive bollworm, corn earworm, tomato fruitworm	Lit	
	Spodoptera exempta (Walker, 1856) adventive nutgrass armyworm	Lit	
	Spodoptera litura (Fabricius, 1775) adventive	Lit	
Oecophoridae			
	Stoeberhinus testaceus Butler, 1881 adventive.....	Lit	
Plutellidae			
	Plutella xylostella (Linnaeus, 1758) adventive diamondback moth	Lit	
Pterophoridae			
	Megalorhipida leucodactylus (Fabricius, 1793) adventive.....	Lit	

Sphingidae			
	Hyles lineata (Fabricius, 1775) adventive whitelined sphinx	Lit	00
Tineidae			
	Mecomodica fullawayi (Swezey, 1926) adventive?.....	Lit	
Neuroptera (2)			
Chrysopidae			
	Chrysoperla comanche (Banks, 1938) adventive comanche lacewing	Lit	
Hemerobiidae			
	Symppherobius barberi (Banks, 1903) purposely introduced Barber brown lacewing	Lit	
Odonata (1)			
Libellulidae			
	Pantala flavescens (Fabricius, 1798) indigenous globe skimmer	Lit	Coll
Orthoptera (3)			
Pyrgomorphidae			
	Attractomorpha sinensis Bolivar, 1905 adventive pinkwinged grasshopper	Lit	00
Tettigoniidae			
	Conocephalus saltator (Saussure, 1859) adventive longhorned grasshopper	Lit	
	Scudderia paronae Griffini, 1896 adventive.....	Lit	00
Phthiraptera (3)			
Hoplopleuridae			
	Hoplopleura pacifica Ewing, 1924 adventive tropical rat louse	Lit	
Philopteridae			
	Halipeurus mirabilis Thompson, 1940 indigenous.....	Lit	
	Harrisoniella copei Timmermann, 1969 indigenous.....	Lit	
Psocoptera (2)			
Ectopsocidae			
	Ectopsocus perkinsi Banks, 1931 adventive.....	Lit	
Trogiidae			
	Lepinotus reticulatus Enderlein, 1905 adventive reticulatewinged trogiid	Lit	
Thysanoptera (3)			
Phlaeothripidae			
	Haplothrips gowdeyi (Franklin, 1908) adventive black flower thrips	Lit	
Thripidae			
	Frankliniella schultzei (Trybom, 1910) adventive yellow flower thrips	Lit	
	Thrips tabaci Lindeman, 1889 adventive onion thrips	Lit	

CHILOPODA

Geophilomorpha (1)			
Geophilidae			
	Honuaphilus alohanus Chamberlin, 1926 endemic?	Lit	
Lithobiomorpha (1)			
Lithobiidae			
	Onebius moananus Chamberlin, 1926 endemic	Lit	

CRUSTACEA

Isopoda (3)			
Armadillidiidae			
	Venezillo parvus (Budde-Lund, 1885) adventive	Lit	
Platyarthridae			
	Trichorhina tomentosa (Budde-Lund, 1893) adventive	Lit	
Porcellionidae			
	Porcellionides pruinosus (Brandt, 1833) adventive	Lit	

LAYSAN

ARACHNIDA

Acarı (22)			
Argasidae			
	Ornithodoros capensis Neumann, 1901 adventive	Lit	Rpt

Bdellidae			
	Bdellodes longirostris (Hermann, 1804) adventive.....	Lit	
Ceratozetidae			
	Ceratozetes incurvus Aoki, 1964 endemic?.....	Lit Rpt	
	Hypozetes laysanensis Aoki, 1964 endemic?.....	Lit Rpt	
Cymbamermaeidae			
	Scapheremaeus sinuosus Aoki, 1964 endemic?	Lit Rpt	
Epilohmannidae			
	Epilohmannia cylindrica (Berlese, 1904) adventive.....	Lit	
	Epilohmannia pallida pacifica Aoki, 1965 endemic	Lit Rpt	
Galumnidae			
	Galumna flabellifera Hammer, 1958 adventive.....	Lit	
Halarachnidiae			
	Halarachne laysanae Furman & Dailey, 1980 endemic.....	Lit Rpt	
Ixodidae			
	Ixodes laysanensis Wilson, 1964 endemic?.....	Lit Rpt	
Microzetidae			
	Berlesezetes auxiliaris (Grandjean, 1936) adventive.....	Lit	
Ologamasidae			
	Gamasiphis sp. - 1979 ?.....	Lit	
Oppiidae			
	Multioppia wilsoni Aoki, 1964 endemic?.....	Lit Rpt	
Oribatulidae			
	Exoribatula pacifica (Aoki, 1964) endemic.....	Lit Rpt	
Phytoseiidae			
	Amblyseius largoensis (Muma, 1955) adventive.....	Lit	
Scheloribatidae			
	Scheloribates calcaratus Jacot, 1934 endemic.....	Lit Rpt	
Tectocephidae			
	Tectocepheus sarekensis Tragardh, 1910 adventive.....	Lit	
Tenuipalpidae			
	Brevipalpus obovatus Donnadieu, 1875 adventive privet mite	Lit	
Trombiculidae			
	Guntheria domrowi (Brennan, 1965) adventive.....	Lit	
	Neoschoengastia gallinarum (Hatori, 1920) adventive.....	Lit	
	Schoengastia pobsa Brennan & Amerson, 1971 indigenous.....	Lit Rpt	
Xolalgidae			
	n.gen. n.sp. - 1980 ?.....	Lit	

Araneae (12)

Araneidae			
	Neoscona theisi (Walckenaer, 1841) adventive.....	Lit	
	Neoscona sp.....		00
Clubionidae			
	Cheiracanthium mordax L. Koch, 1866 adventive pale leaf spider	Lit	
Gnaphosidae			
	Urozelotes rusticus (L. Koch, 1872) adventive.....	Lit	
Lycosidae			
	Lycosa oahuensis Keyserling, 1890 endemic	Lit Rpt	
	Lycosa sp.....		00
Pholcidae			
	Smeringopus pallidus (Blackwall, 1858) adventive.....	Lit	
Salticidae			
	Menemerus bivittatus (Dufour, 1831) adventive.....	Lit	
Scytodidae			
	Scytodes striatipes (L. Koch, 1872) adventive.....	Lit	
Tetragnathidae			
	Tetragnatha nitens (Audouin, 1826) adventive.....	Lit	
Theridiidae			
	Coleosoma floridanum Banks, 1900 adventive.....	Lit	
	Nesticodes rufipes (Lucas, 1846) adventive.....	Lit	

Pseudoscorpionida (1)

Withiidae			
	Withius laysanensis (Simon, 1899) endemic.....	Lit	

INSECTA

Blattodea (5)				
Blaberidae				
<i>Pycnoscelus indicus</i> (Fabricius, 1775) adventive burrowing cockroach	Lit			00
Blattellidae				
<i>Balta notulata</i> (Stål, 1861) adventive.....	Lit			
<i>Blattella germanica</i> (Linnaeus, 1767) adventive German cockroach	Lit			
Blattidae				
<i>Periplaneta americana</i> (Linnaeus, 1758) adventive American cockroach	Lit	Rpt		00
<i>Platyzosteria soror</i> (Brunner, 1865) adventive whitemargined cockroach	Lit			
Coleoptera (35)				
Anthribidae				
<i>Araecerus fasciculatus</i> (DeGeer, 1775) adventive coffee bean weevil	Lit			
Bruchidae				
<i>Megacerus leucospilus</i> (Sharp, 1885) adventive.....		Rpt		00
Buprestidae				
<i>Buprestis aurulenta</i> Linnaeus, 1767) adventive golden buprestid	Rpt			
Carabidae				
<i>Tachys oahuensis</i> Blackburn, 1878 endemic		Lit	Rpt	
Cerambycidae				
<i>Placosternus crinicornis</i> (Chevrolat, 1860) adventive kiawe roundheaded borer	Lit			
Chrysomelidae				
<i>Chaetocnema confinis</i> Crotch, 1873 adventive sweetpotato flea beetle				00
Cleridae				
<i>Necrobia rufipes</i> (DeGeer, 1775) adventive redlegged ham beetle	Lit			00
Coccinellidae				
<i>Diomus debilis</i> (LeConte, 1852) purposely introduced.....	Lit			
<i>Scymnus loewii</i> Mulsant, 1850 purposely introduced	Lit			00
Corylophidae				
<i>Sericoderus minutus</i> Matthews, 1894 adventive?.....		Lit		
Cucujidae				
<i>Cryptamorpha desjardinsi</i> (Guerin-Meneville, 1844) adventive.....	Lit			
<i>Oryzaephilus surinamensis</i> (Linnaeus, 1758) adventive sawtoothed grain beetle	Lit			
Curculionidae				
<i>Dryophthorus distinguendus</i> Perkins, 1900 endemic	Lit			
<i>Dryotribus mimeticus</i> Horn, 1873 adventive.....	Lit			
<i>Dryotribus wilderi</i> Perkins, 1916 indigenous	Lit			
<i>Macrancylus linearis</i> LeConte, 1876 adventive.....	Lit			
<i>Oodemas erro</i> Perkins, 1926 endemic C2 wandering oodemas weevil	Lit			
<i>Oodemas laysanensis</i> Fullaway, 1914 endemic C2 Laysan oodemas weevil	Lit			
<i>Oxydema fusiforme</i> Wollaston, 1873 adventive.....		Lit	Rpt	
<i>Pentarthrum blackburni</i> Sharp, 1878 adventive C2 Blackburn's pentarthrum weevil	Lit			
<i>Rhyncogonus bryani</i> Perkins, 1919 endemic C2 Laysan rhyncogonus weevil	Lit			
<i>Sitophilus oryzae</i> (Linnaeus, 1763) adventive rice weevil	Lit			
Dermestidae				
<i>Attagenus fasciatus</i> (Thunberg, 1795) adventive wardrobe beetle	Lit			
<i>Dermestes ater</i> DeGeer, 1774 indigenous? black larder beetle	Lit			
Endomychidae				
<i>Eidoreus minutus</i> Sharp, 1885 endemic	Lit	Rpt		
Nitidulidae				
<i>Carpophilus dimidiatus</i> (Fabricius, 1792) adventive corn sap beetle	Lit			
Scarabaeidae				
<i>Pleurophorus micros</i> (Bates, 1887) adventive?	Lit			
Scolytidae				
<i>Hypothenemus eruditus</i> (Westwood, 1835) adventive	Lit			
Staphylinidae				
<i>Carpelimus</i> sp.		Lit	Rpt	
Genus? species?			Rpt	
Tenebrionidae				
<i>Alphitobius diaperinus</i> (Panzer, 1796) adventive lesser mealworm	Lit			
<i>Alphitobius laevigatus</i> (Fabricius, 1781) adventive black fungus beetle	Lit			00
<i>Blapstinus histrionicus</i> Casey, 1890 adventive.....	Lit			
<i>Tribolium castaneum</i> (Herbst, 1797) adventive red flour beetle	Lit			
Trogositidae				
<i>Tenebroides mauritanicus</i> (Linnaeus, 1758) adventive cadelle	Lit			

Collembola (5)				
Entomobryidae				
<i>Cyphoderus similis</i> Folsom, 1927 adventive	Lit			
<i>Entomobrya griseoolivata</i> (Packard, 1873) adventive.....	Lit			
<i>Entomobrya marginata</i> (Tullberg, 1871) adventive.....	Lit			
<i>Seira terrestris</i> (Folsom, 1932) adventive.....	Lit			
Hypogastruridae				
<i>Oudemansia esakii</i> (Kinoshita, 1932) adventive.....	Lit			
Dermoptera (4)				
Carcinophoridae				
<i>Anisolabis maritima</i> (Bonelli, 1832) indigenous	Lit	Rpt	00	
<i>Anisolabis perkinsi</i> Burr, 1910 endemic.....	Lit			
<i>Euborellia annulipes</i> (Lucas, 1847) adventive ringlegged earwig	Lit			
<i>Euborellia eteronoma</i> (Borelli, 1909) endemic.....	Lit			
Diptera (31)				
Agromyzidae				
<i>Liriomyza trifolii</i> (Burgess, 1880) adventive celery leafminer	Coll			
Asteiidae				
<i>Bryania bipunctata</i> Aldrich, 1931 endemic C2 Nihoa two-spotted asteriid fly	Lit	Rpt		
Calliphoridae				
<i>Lucilia graphita</i> Shannon, 1926 endemic	Lit	Rpt		
<i>Rhinia apicalis</i> (Wiedemann, 1830) adventive.....	Lit			
Canacidae				
<i>Canaceoides angulatus</i> Wirth, 1969 adventive.....	Lit	Rpt		
Ceratopogonidae				
<i>Dasyhelea calvescens</i> Macfie, 1938 indigenous.....	Rpt			
Chironomidae				
<i>Telmatogeton pacificus</i> Tokunaga, 1935 indigenous.....	Lit	Rpt		
Chloropidae				
<i>Siphunculina striolata</i> (Wiedemann, 1830) adventive.....	Lit			
Dolichopodidae				
<i>Chrysosoma globiferum</i> (Wiedemann, 1830) adventive	Lit		00	
<i>Dolichopus exsul</i> Aldrich, 1922 adventive	Coll			
<i>Hydrophorus pacificus</i> Van Duzee, 1933 endemic	Lit	Rpt		
Drosophilidae				
<i>Scaptomyza cneicosoma</i> Hardy, 1965 endemic	Lit	Rpt		
Ephydriidae				
<i>Scatella hawaiiensis</i> Grimshaw, 1901 endemic	Lit			
<i>Scatella sexnotata</i> Cresson, 1926 indigenous.....	Lit	Rpt	00	
Hippoboscidae				
<i>Olfersia aenescens</i> Thomson, 1869 indigenous?	Lit	Rpt		
<i>Olfersia spinifera</i> (Leach, 1818) indigenous? frigate bird fly	Lit	Rpt		
Milichiidae				
<i>Leptometopa beardsleyi</i> Hardy & Delfinado, 1980 endemic.....	Rpt			
<i>Milichiella lacteipennis</i> (Loew, 1865) adventive	Lit		00	
Muscidae				
<i>Haematobia irritans</i> (Linnaeus, 1758) adventive horn fly	Coll			
<i>Musca domestica</i> Linnaeus, 1758 adventive house fly	Lit	Rpt		
Phoridae				
<i>Megaselia scalaris</i> (Loew, 1866) adventive.....	Lit			
Sarcophagidae				
<i>Goniophyo bryani</i> Lopes, 1938 indigenous.....	Lit	Rpt		
Sciaridae				
<i>Bradysia tritici</i> (Coquillett, 1895) adventive.....	Lit			
Sphaeroceridae				
<i>Coproica ferruginata</i> (Stenhammar, 1854) adventive.....	Lit			
<i>Leptocera fuscipennis</i> (Haliday, 1833) adventive	Lit			
<i>Poecilosomella punctipennis</i> (Wiedemann, 1824) adventive.....	Lit			
<i>Thoracochaeta brachystoma</i> (Stenhammar, 1854) adventive.....	Lit			
<i>Trachyopella nuda</i> Rohacek & Marshall, 1986 adventive.....	Lit			
Stratiomyidae				
<i>Brachycara latifrons</i> James, 1960 adventive	Lit		00	
Tachinidae				
<i>Leucostoma aterrimum</i> (Villers, 1789) adventive.....	Lit			
<i>Leucostoma simplex</i> (Fallen, 1815) adventive.....	Lit			

Embiidina (2)

Oligotomidae

- Aposthonia oceania (Ross, 1951) adventive **oceanic embiid**.....Lit
 Oligotoma saundersii (Westwood, 1837) adventive **Saunders embiid**.....Lit

Heteroptera (9)

Anthocoridae

- Orius persequens (White, 1877) adventive.....Lit

00

Cydnidae

- Geotomus pygmaeus (Dallas, 1851) adventive **oceanic burrower bug**.....Lit

Gerridae

- Halobates sericeus Eschscholtz, 1822 indigenous **Pacific pelagic water strider**.....Lit

Lygaeidae

- Nysius fullawayi fullawayi Usinger, 1942 endemic C2 **Fullaway's seed bug**.....Lit

Rpt

Miridae

- Enyptatus modestus (Distant, 1893) adventive **tomato bug**.....Lit

- Trigonotylus hawaiiensis (Kirkaldy, 1902) endemic **Hawaiian grass bug**.....Lit

Nabidae

- Nabis blackburni White, 1878 endemic **Blackburn damsel bug**.....Lit

- Nabis capsiformis Germar, 1837 adventive **pale damsel bug**.....Lit

Reduviidae

- Empicoris rubromaculatus (Blackburn, 1889) adventive **thread bug**.....Lit

Homoptera (15)

Aphididae

- Aphis craccivora C.L. Koch, 1854 adventive **cowpea aphid**.....Lit

- Aphis gossypii Glover, 1877 adventive **cotton aphid, melon aphid**.....Lit

- Rhopalosiphum maidis (Fitch, 1854) adventive **corn leaf aphid**.....Lit

Cicadellidae

- Circulifer tenellus (Baker, 1896) adventive **beet leafhopper**.....Lit

- Deltococephalus sonorus Ball, 1900 adventive.....Lit

Rpt

Coccidae

- Parasaissetia nigra (Nietner, 1861) adventive **nigra scale**.....Lit

Delphacidae

- Opiconsiva paludum (Kirkaldy, 1910) adventive.....Lit

- Sardia rostrata pluto (Kirkaldy, 1906) adventiveRpt

00

- Toya dryope (Kirkaldy, 1907) adventive.....

00

Diaspididae

- Hemiberlesia lataniae (Signoret, 1869) adventive **latania scale**.....Lit

Pseudococcidae

- Antonina graminis (Maskell, 1897) adventive **rhodesgrass mealybug**.....Lit

- Ferrisia virgata (Cockerell, 1893) adventive **striped mealybug**.....Lit

- Planococcus citri (Risso, 1813) adventive **citrus mealybug**.....Lit

- Pseudococcus n.sp. - 1966 adventive

- Trionymus insularis Ehrhorn, 1916 endemic.....Lit

Hymenoptera (21)

Braconidae

- Chelonus blackburni Cameron, 1887 adventive.....Lit

00

- Cotesia marginiventris (Cresson, 1865) purposely introduced **lawn armyworm parasite**.....Lit

Encyrtidae

- Rhopus laysanensis (Timberlake, 1919) endemic.....Lit

Rpt

Eucoilidae

- Pseudeucoila hygrophila (Perkins, 1910) endemic.....Lit

Rpt

Eulophidae

- Euderus metallicus (Ashmead, 1901) adventive?.....Lit

Eupelmidae

- Zaischnopsis sp. - 1939 adventive?.....Lit

Rpt

Formicidae

- Camponotus variegatus (F. Smith, 1858) adventive **Hawaiian carpenter ant**

- Cardiocondyla nuda (Mayr, 1866) adventive

- Hypoponera punctatissima (Roger, 1859) adventive

- Monomorium destructor (Jerdon, 1851) adventive

- Monomorium floricola (Jerdon, 1851) adventive

- Monomorium minimum (Buckley, 1867) adventive **little black ant**.....Lit

- Monomorium monomorium Bolton, 1987 adventive.....Lit

- Monomorium pharaonis (Linnaeus, 1758) adventive **Pharaoh ant**

Rpt

- Pheidole megacephala (Fabricius, 1793) adventive **bigheaded ant**.....Lit

Plagiolepis alluaudi Emery, 1894 adventive	little yellow ant	Lit	
Tapinoma melanocephalum (Fabricius, 1793) adventive	tiny yellow house ant	Lit	
Tetramorium bicarinatum (Nylander, 1847) adventive	Guinea ant	Lit	
			00
Mymaridae			
Stephanodes reduvioli (Perkins, 1905) adventive		Lit	
Pteromalidae			
Spalangia drosophilae Ashmead, 1887 purposely introduced		Lit	
Scelionidae			
Telenomus vulcanus Perkins, 1910 endemic?		Lit	Rpt
Isoptera (1)			
Kalotermitidae			
Cryptotermes brevis (Walker, 1853) adventive	West Indian drywood termite	Lit	
Lepidoptera (32)			
Cosmopterigidae			
Asymphorodes dimorpha (Busck, 1914) adventive		Lit	
Hyposmocoma notabilis Walsingham, 1907 endemic		Lit	
Hyposmocoma spp.			Rpt
Pyroderces rileyi (Walsingham, 1882) adventive	pink scavenger caterpillar	Lit	
Crambidae			
Omiodes laysanensis Meyrick, 1914 endemic	C3 Laysan hedyleptan moth	Lit	
Spoladea recurvalis (Fabricius, 1775) adventive	Hawaiian beet webworm	Lit	
Udea dryadopa (Meyrick, 1899) endemic	C2 'ohenaupaka oeobian moth	Lit	
Noctuidae			
Agrotis crinigera (Butler, 1881) endemic	C3 larger Hawaiian cutworm ("Poko" mo)	Lit	
Agrotis dislocata (Walker, 1856) endemic	smaller Hawaiian cutworm	Lit	Rpt
Agrotis evanescens (Rothschild, 1894) endemic		Lit	Rpt
Agrotis fasciata (Rothschild, 1894) endemic	C3 Midway agrotis noctuid moth	Lit	
Agrotis ipsilon (Hufnagel, 1767) adventive	black cutworm		Coll
Agrotis laysanensis (Rothschild, 1894) endemic	C3 Laysan agrotis noctuid moth	Lit	
Agrotis procellaris Meyrick, 1900 endemic	C3A procellaris agrotis noctuid moth	Lit	
Chrysodeixis eriosoma (Doubleday, 1843) adventive	green garden looper	Lit	Rpt
Elaphria nucicolora (Guenee, 1852) adventive		Lit	Rpt
Helicoverpa zea (Boddie, 1850) adventive	bollworm, corn earworm, tomato fruitworm		Rpt
Hypena laysanensis (Swezey, 1914) endemic	C3 Laysan dropseed noctuid moth	Lit	
Leucania loryeyimima Rungs, 1953 adventive			Coll
Lycophotia porphyrea (Denis & Schiffermueller, 1775) adventive		Lit	
Peridroma chersotoides (Butler, 1881) endemic		Lit	
Pseudaletia unipuncta (Haworth, 1809) adventive	armyworm	Lit	
Spodoptera exigua (Huebner, 1808) adventive	beet armyworm	Lit	
Trichoplusia ni (Huebner, 1802) adventive	cabbage looper	Lit	
Plutellidae			
Plutella xylostella (Linnaeus, 1758) adventive	diamondback moth	Lit	
Pterophoridae			
Megalorhipida leucodactylus (Fabricius, 1793) adventive		Lit	
Pyralidae			
Cadra cautella (Walker, 1863) adventive	almond moth	Lit	
Pyralis manihotalis Guenee, 1854 adventive		Lit	Rpt
Sphingidae			
Agrius cingulata (Fabricius, 1775) adventive	sweetpotato hornworm	Lit	
Tineidae			
Decadarchis kerri (Swezey, 1926) adventive		Lit	
Phereoeca allutella (Rebel, 1892) adventive		Lit	
Praeacedes atomosella (Walker, 1863) adventive		Lit	
Neuroptera (1)			
Chrysopidae			
Chrysoperla comanche (Banks, 1938) adventive	comanche lacewing		Rpt
Orthoptera (1)			
Tettigoniidae			
Euconocephalus nasutus (Thunberg, 1815) adventive	aggravating grasshopper	Lit	Rpt
Phthiraptera (24)			
Menoponidae			
Actornithophilus incisus (Piaget, 1880) indigenous		Lit	

<i>Ancistrona vagelli</i> (Fabricius, 1787) indigenous.....	Lit Rpt
<i>Austromenopon atrofulvum</i> (Piaget, 1880) indigenous.....	Lit Rpt
<i>Austromenopon paululum</i> (Kellogg & Chapman, 1899) indigenous.....	Lit Rpt
<i>Longimenopon puffinus</i> Thompson, 1948 indigenous.....	Lit Rpt
<i>Myrsidea invadens</i> (Kellogg & Chapman, 1902) adventive.....	Lit
Philopteridae	
<i>Docophoroides ferrisi</i> Harrison, 1937 indigenous	Lit Rpt
<i>Docophoroides niethammeri</i> Timmermann, 1969 indigenous	Lit Rpt
<i>Halipeurus mirabilis</i> Thompson, 1940 indigenous.....	Lit
<i>Halipeurus theresae</i> Timmermann, 1969 indigenous.....	Lit Rpt
<i>Harrisoniella copei</i> Timmermann, 1969 indigenous.....	Lit Rpt?
<i>Harrisoniella densa</i> (Kellogg, 1896) indigenous	Lit Rpt?
<i>Longimenopon puffinus</i> Thompson, 1948 indigenous.....	Lit Rpt
<i>Paraclisis confidens</i> (Kellogg, 1899) indigenous	Lit Rpt
<i>Paraclisis giganticola</i> (Kellogg, 1896) indigenous.....	Lit Rpt
<i>Pectinopygus annulatus</i> (Piaget, 1880) indigenous.....	Lit Rpt
<i>Pectinopygus gracilicornis</i> (Piaget, 1880) indigenous.....	Lit Rpt
<i>Pectinopygus sulae</i> (Rudow, 1869) indigenous	Lit Rpt
<i>Perineus concinnus</i> (Kellogg & Chapman, 1899) indigenous.....	Lit Rpt
<i>Quadraceps birostris</i> (Giebel, 1874) indigenous.....	Lit Rpt
<i>Quadraceps separatus</i> (Kellogg & Kuwana, 1902) indigenous.....	Lit Rpt
<i>Saemundssonia petersi</i> Ward, 1955 indigenous.....	Lit
<i>Saemundssonia snyderi</i> (Kellogg & Paine, 1910) indigenous.....	Lit Rpt
<i>Trabeculus mirabilis</i> (Kellogg, 1896) indigenous.....	Lit Rpt

Psocoptera (3)

Ectopsocidae

<i>Ectopsocus fullawayi</i> Enderlein, 1913 indigenous?.....	Lit
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Lepidopsocidae

<i>Cyptophania hirsuta</i> Banks, 1931 adventive.....	Lit
<i>Lepolepis pictus</i> Thornton, 1981 adventive.....	Lit

Siphonaptera (1)

Rhopalopsyllidae

<i>Parapsyllus laysanensis</i> Wilson, 1972 endemic.....	Lit Rpt
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Thysanoptera (4)

Phlaeothripidae

<i>Haplothrips gowdeyi</i> (Franklin, 1908) adventive black flower thrips	Lit
<i>Haplothrips robustus</i> Bagnall, 1918 adventive.....	Lit

Thripidae

<i>Caliothrips punctipennis</i> (Hood, 1912) adventive.....	Lit
<i>Frankliniella schultzei</i> (Trybom, 1910) adventive yellow flower thrips	Lit

CHILOPODA

Geophilomorpha (1)

Geophilidae

<i>Honuaphilus alohanus</i> Chamberlin, 1926 endemic?	Lit Rpt
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CRUSTACEA

Anostraca (1)

Artemiidae

<i>Artemia salina pacifica</i> Sars, 1904 endemic?	Lit
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Isopoda (4)

Ligiidae

<i>Ligia hawaiensis</i> (Dana, 1853) endemic.....	Rpt
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Philosciidae

<i>Littorophiloscia hawaiiensis</i> Taiti & Ferrara, 1986 endemic.....	Lit
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Platyarthridae

<i>Trichorhina tomentosa</i> (Budde-Lund, 1893) adventive	Lit
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Porcellionidae

<i>Porcellionides pruinosus</i> (Brandt, 1833) adventive.....	Lit
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Amphipoda (1)

Genus? species?	Rpt
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LISIANSKI (56 arthropods) [Not visited by NOWRAMP Expedition]

ARACHNIDA

Acaris (4)

Argasidae

Ornithodoros capensis Neumann, 1901 adventive Lit

Hypoderidae

Neottialges fregatae Fain & Amerson, 1968 indigenous? Lit

Neottialges hawaiiensis Fain & Amerson, 1968 indigenous? Lit

Trombiculidae

Guntheria domrowi (Brennan, 1965) adventive Lit

Araneae (2)

Araneidae

Neoscona theisi (Walckenaer, 1841) adventive Lit

Clubionidae

Cheiracanthium mordax L. Koch, 1866 adventive **pale leaf spider** Lit Rpt

INSECTA

Blattodea (2)

Blattellidae

Blattella germanica (Linnaeus, 1767) adventive **German cockroach** Lit

Blattidae

Periplaneta americana (Linnaeus, 1758) adventive **American cockroach** Lit Rpt

Coleoptera (3)

Coccinellidae

Scymnus loewii Mulsant, 1850 purposely introduced Lit

Dermestidae

Dermestes ater DeGeer, 1774 indigenous? **black larder beetle** Lit

Scolytidae

Hypothenemus eruditus (Westwood, 1835) adventive Coll

Dermoptera (2)

Carcinophoridae

Anisolabis maritima (Bonelli, 1832) indigenous Lit

Euborellia eteronoma (Borelli, 1909) endemic Lit

Diptera (20)

Calliphoridae

Lucilia graphita Shannon, 1926 endemic Lit

Canacidae

Canaceoides angulatus Wirth, 1969 adventive Lit

Chloropidae

Cadrema pallida (Loew, 1865) adventive Lit

Siphunculina striolata (Wiedemann, 1830) adventive Lit

Dolichopodidae

Thambemyia acrosticalis (Parent, 1937) endemic? Lit

Ephydriidae

Discomyza maculipennis (Wiedemann, 1824) adventive Lit

Hecamede granifera (Thomson, 1869) adventive Lit

Hippoboscidae

Olfersia aenescens Thomson, 1869 indigenous? Lit

Olfersia spinifera (Leach, 1818) indigenous? **frigate bird fly** Lit

Milichiidae

Leptometopa beardsleyi Hardy & Delfinado, 1980 endemic Lit

Milichiella lacteipennis (Loew, 1865) adventive Lit

Muscidae

Haematobia irritans (Linnaeus, 1758) adventive **horn fly** Coll

Musca domestica Linnaeus, 1758 adventive **house fly** Lit Rpt

Phoridae

Diplonevra peregrina (Wiedemann, 1830) adventive Lit

Megaselia scalaris (Loew, 1866) adventive Lit

Sphaeroceridae

Coproica ferruginata (Stenhammar, 1854) adventive Lit

Thoracochaeta brachystoma (Stenhammar, 1854) adventive Lit

Trachyopella nuda Rohacek & Marshall, 1986 adventive Lit

Tethinidae		
	Dasyrhicnoessa insularis (Aldrich, 1931) indigenous?	Lit
	Tethina willistoni (Melander, 1913) adventive	Lit
Heteroptera (4)		
Gerridae		
	Halobates sericeus Eschscholtz, 1822 indigenous Pacific pelagic water strider	Lit
Lygaeidae		
	Nysius fullawayi fullawayi Usinger, 1942 endemic C2 Fullaway's seed bug	Lit
	Nysius fullawayi flavus Usinger, 1942 endemic	Lit
Nabidae		
	Nabis capsiformis Germar, 1837 adventive pale damsel bug	Lit
Homoptera (4)		
Aphididae		
	Aphis craccivora C.L. Koch, 1854 adventive cowpea aphid	Lit
Coccidae		
	Parasaissetia nigra (Nietner, 1861) adventive nigra scale	Lit Rpt
Diaspididae		
	Hemiberlesia lataniae (Signoret, 1869) adventive latania scale	Lit Rpt
Pseudococcidae		
	Trionymus insularis Ehrhorn, 1916 endemic	Lit Rpt
Hymenoptera (4)		
Braconidae		
	Chelonus blackburni Cameron, 1887 adventive	Coll
Formicidae		
	Cardiocondyla emeryi Forel, 1881 adventive	Rpt
	Monomorium pharaonis (Linnaeus, 1758) adventive Pharaoh ant	Rpt
Pteromalidae		
	Halticoptera sp. adventive	Coll
Isoptera (1)		
Kalotermitidae		
	Cryptotermes brevis (Walker, 1853) adventive West Indian drywood termite	Lit
Lepidoptera (6)		
Cosmopterigidae		
	Asymphorodes dimorpha (Busck, 1914) adventive	Lit
Noctuidae		
	Helicoverpa minuta Hardwick, 1965 endemic C3A minute helicoverpan noctuid moth	Lit
	Leucania loreyimima Rungs, 1953 adventive	Coll
	Pseudaletia unipuncta (Haworth, 1809) adventive armyworm	Lit
Pterophoridae		
	Megalorhipida leucodactylus (Fabricius, 1793) adventive	Lit
Tineidae		
	Decadarchis kerri (Swezey, 1926) adventive	Lit
Orthoptera (1)		
Tettigoniidae		
	Euconocephalus nasutus (Thunberg, 1815) adventive aggravating grasshopper	Lit Rpt
Psocoptera (1)		
Trogidae		
	Cerobasis annulata (Hagen, 1865) adventive	Lit
Thysanoptera (1)		
Phlaeothripidae		
	Karnyothrips melaleucus (Bagnall, 1911) adventive	Lit
CRUSTACEA		
Isopoda (3)		
Philosciidae		
	Littorophiloscia culebrae (Moore, 1901) adventive	Lit
Porcellionidae		
	Porcellio laevis Latreille, 1804 adventive	Lit
	Porcellionides pruinosis (Brandt, 1833) adventive	Lit

NECKER (74 arthropods)**ARACHNIDA****Acari** (2)

Argasidae

Ornithodoros capensis Neumann, 1901 adventive Lit

Xolalgidae

n.gen. n.sp. - 1980 ? Lit

Araneae (7)

Barychelidae

Nihoa hawaiensis (Raven, 1988) endemic Lit

Lycosidae

Lycosa sp. endemic? 00

Salticidae

Sandalodes sp. endemic? 00

Scytodidae

Scytodes striatipes (L. Koch, 1872) adventive Lit

Theridiidae

Coleosoma floridanum Banks, 1900 adventive 00

Theridion sp. endemic? 00

Thomisidae

Mecaphesa insulanus (Keyserling, 1890) endemic 00

INSECTA**Blattodea** (2)

Blattidae

Periplaneta americana (Linnaeus, 1758) adventive **American cockroach** Lit

Genus? species? adventive? 00

Coleoptera (11)

Anthribidae

Araecerus fasciculatus (DeGeer, 1775) adventive **coffee bean weevil** Lit

Coccinellidae

Scymnus loewii Mulsant, 1850 purposely introduced Lit 00

Curculionidae

Oodemas laysanensis Fullaway, 1914 endemic C2 **Laysan oodemas weevil** LitOodemas neckeri Perkins, 1926 endemic C2 **Laysan oodemas weevil** LitRhyncogonus biformis Perkins, 1926 endemic C2 **Necker rhyncogonus weevil** Lit 00

Dermestidae

Dermestes ater DeGeer, 1774 indigenous? **black larder beetle** LitDermestes maculatus DeGeer, 1774 indigenous **hide beetle** Lit

Elateridae

Itodacnus novicornis Van Zwaluwenburg, 1926 endemic C2 **Necker itodacnus click beetle** Lit

Itodacnus paradoxus Samuelson & Van Zwaluwenburg, 1967 endemic C2

strange **itodacnus click beetle** Lit 00

Nitidulidae

Carpophilus dimidiatus (Fabricius, 1792) adventive **corn sap beetle** Lit

Tenebrionidae

Sciophagus pandanicola (Boisduval, 1835) indigenous Lit

Dermoptera (1)

Carcinophoridae

Euborellia annulipes (Lucas, 1847) adventive **ringlegged earwig** Lit**Diptera** (13)

Asteiidae

Asteia aberrans Hardy & Delfinado, 1980 endemic Lit

Chironomidae

Telmatogeton pacificus Tokunaga, 1935 indigenous Lit

Chloropidae

Siphunculina striolata (Wiedemann, 1830) adventive Lit

Dolichopodidae

Thambemyia acrosticalis (Parent, 1937) endemic? Lit

Ephydriidae

Atissa antennalis Aldrich, 1931 endemic? Lit

Scatella sexnotata Cresson, 1926 indigenous Lit

Hippoboscidae						
	Olfersia spinifera (Leach, 1818) indigenous? frigate bird fly					Lit
Milichiidae						
	Leptometopa beardsleyi Hardy & Delfinado, 1980 endemic.....					Lit
	Milichia orientalis Malloch, 1913 adventive.....					Lit
Muscidae						
	Musca domestica Linnaeus, 1758 adventive house fly					Rpt
Phoridae						
	Diplonevra peregrina (Wiedemann, 1830) adventive.....					Lit
Sarcophagidae						
	Goniophyto bryani Lopes, 1938 indigenous.....					Lit
Sphaeroceridae						
	Coproica hirtula (Rondani, 1880) adventive					Lit
Embiidina (2)						
Oligotomidae						
	Aposthonia oceania (Ross, 1951) adventive oceanic embiid					Lit
	Oligotoma saundersii (Westwood, 1837) adventive Saunders embiid					Lit
Heteroptera (4)						
Gerridae						
	Halobates sericeus Eschscholtz, 1822 indigenous Pacific pelagic water strider					Lit
Lygaeidae						
	Nysius chenopodii Usinger, 1942 endemic.....					Lit
	Nysius delectus White, 1878 endemic.....					Lit
	Nysius neckerensis Usinger, 1942 endemic C2 Necker goosefoot seed bug					Lit
Homoptera (7)						
Cicadellidae						
	Circulifer tenellus (Baker, 1896) adventive beet leafhopper					Lit Rpt
	Empoasca solana DeLong, 1931 adventive southern garden leafhopper					Lit Rpt
Diaspididae						
	Hemiberlesia lataniae (Signoret, 1869) adventive latania scale					Lit Rpt
Pseudococcidae						
	Ferrisia virgata (Cockerell, 1893) adventive striped mealybug					Lit
	Pseudococcus n.sp. - 1966 adventive					Lit
	Rhizoecus hawaiensis (Hambleton, 1946) adventive					Lit
	Rhizoecus sp.....					Lit Rpt
Hymenoptera (7)						
Eupelmidae						
	Eupelmus robustus (Timberlake, 1926) endemic?.....					Lit
Formicidae						
	Cardiocondyla nuda (Mayr, 1866) adventive					Lit
	Hypoponera punctatissima (Roger, 1859) adventive.....					Lit
	Monomorium monomorium Bolton, 1987 adventive.....					Lit
	Tetramorium bicarinatum (Nylander, 1847) adventive Guinea ant					Lit
Pteromalidae						
	Spalangia drosophilae Ashmead, 1887 purposely introduced					Lit
Signiphoridae						
	Thysanus aspidioti (Ashmead, 1900) adventive					Lit
Lepidoptera (14)						
Cosmopterigidae						
	Asymphorodes dimorpha (Busck, 1914) adventive					Lit
	Hyposmocoma malornata Walsingham, 1907 endemic					Lit
	Hyposmocoma mimica Walsingham, 1907 endemic.....					Lit
	Hyposmocoma neckerensis (Swezey, 1926) endemic C2* Necker petrochroan leaf miner					Lit
	Hyposmocoma new species 28 Zimmerman, 1978 endemic.....					Lit
	Hyposmocoma quinquemaculata Walsingham, 1907 endemic.....					Lit
Crambidae						
	Spoladea recurvalis (Fabricius, 1775) adventive Hawaiian beet webworm					Lit Rpt
Gelechiidae						
	Dichomeris acuminata (Staudinger, 1876) adventive					00
Lycaenidae						
	Lampides boeticus (Linnaeus, 1767) adventive bean butterfly					Lit
Noctuidae						
	Helicoverpa pallida pallida Hardwick, 1965 endemic.....					Lit

Helicoverpa zea (Boddie, 1850) adventive	bollworm, corn earworm, tomato fruitworm	Lit
Heliothis sp. [probably Helicoverpa]		Rpt
Olethreutidae		
Crocidosema leprara (Walsingham, 1907)	endemic?	Lit
Tineidae		
Monopis meliorella (Walker, 1863) adventive		Lit
		00

Orthoptera (2)

Acrididae	Schistocerca nitens (Thunberg, 1815) adventive	vagrant grasshopper	Lit	Coll
Gryllidae	Gryllodes sigillatus (Walker, 1869) adventive	flightless field cricket	Rpt	00

Phthiraptera (3)

Philopteridae	Docophoroides ferrisi Harrison, 1937	indigenous	Lit
	Pectinopygus gracilicornis (Piaget, 1880)	indigenous	Lit
	Pectinopygus sulae (Rudow, 1869)	indigenous	Lit

Thysanoptera (3)

Phlaeothripidae	Haplothrips gowdeyi (Franklin, 1908) adventive	black flower thrips	Lit
	Haplothrips robustus Bagnall, 1918	adventive	Lit
Thripidae	Frankliniella schultzei (Trybom, 1910) adventive	yellow flower thrips	Lit

Thysanura (1)

Lepismatidae	Acrotelsa hawaiiensis (Silvestri, 1904) adventive		Lit
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CHILOPODA

Geophilomorpha (2)

Geophilidae	Honuaphilis alohanus Chamberlin, 1926	endemic?		00
Mecistocephalidae	Mecistocephalus spissus Wood, 1862	adventive		Lit

Lithobiomorpha (1)

Schendylidae	Nyctunguis bryanus Chamberlin, 1926	endemic	Lit
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CRUSTACEA

Isopoda (3)

Ligiidae	Ligia hawaiensis (Dana, 1853)	endemic	Lit
Porcellionidae	Porcellio laevis Latreille, 1804	adventive	Lit
	Porcellionides pruinosus (Brandt, 1833)	adventive	Lit

NIHOA

ARACHNIDA

Acarı (31)

Acaridae	Tyrophagus putrescentiae (Schrank, 1781)	adventive	mold mite	Lit
Analgidae	Analges n.sp. - 1980 ?			Lit
Argasidae	Ornithodoros capensis Neumann, 1901	adventive		Lit
Ascidae	Asca duosetosa Fox, 1946	adventive		Lit
Bdellidae	Bdella captiosa Atyeo, 1963	adventive		Lit
	Bdella nihoaensis Swift & Goff, 1987	endemic?		Lit
Caligonellidae	Coptocheles solanii Swift, 1996	endemic?		Lit
	Molothrognathus conantae Swift, 1996	endemic?		Lit

Camerobiidae				
	Tycherobius superbus (G. Canestrini, 1889) adventive		Lit	
Cheyletidae				
	Hemicheyletia bakeri (Ehara, 1962) adventive.....		Lit	
	Hemicheyletia wellsi (Baker, 1949) adventive.....		Lit	
	Ker palmatus Muma, 1964 adventive.....		Lit	
Cryptognathidae				
	Favognathus goffi Swift, 1996 adventive?		Lit	
Ereynetidae				
	Boydaia agelaii Fain & Aitken, 1968 adventive.....		Lit	
Eriophyidae				
	genus? species?.....		Rpt	
Ixodidae				
	Ixodes laysanensis Wilson, 1964 endemic?.....		Lit	
Lioididae				
	Liodes wakensis (Jacot, 1929) indigenous?		Lit	
Paratydeidae				
	Neotydeius sp. - 1987 ?.....		Lit	
Phytoseiidae				
	Amblyseius largoensis (Muma, 1955) adventive.....		Lit	
	Neoseiulus oahuensis (Prasad, 1968) endemic.....		Lit	
Proctophyllodidae				
	Proctophyllodes n.sp. - 1980 adventive		Lit	
Pteronyssidae				
	Pteroherpus oxyplax (Gaud & Mouchet, 1959) adventive.....		Lit	
	Pteroherpus oxyplax [sp.nr.] (Gaud & Mouchet, 1959) adventive.....		Lit	
Tetranychidae				
	Tetranychus cinnabarinus (Boisduval, 1867) adventive carmine spider mite		Lit	
Trombiculidae				
	Eutrombicula conantae Goff, 1984 endemic?.....		Lit	
	Guntheria domrowi (Brennan, 1965) adventive.....		Lit	
	Neoschoengastia ewingi Wharton & Hardcastle, 1946 adventive.....		Lit	
	Toritrombicula nihoaensis Goff, 1984 endemic?.....		Lit	
Trouessartiidae				
	Trouessartia trouessarti Oudemans, 1904 adventive.....		Lit	
Uropodidae				
	Uropoda sp. - 1947 ?		Lit	
Xolalgidae				
	n.gen. n.sp. - 1980 ?		Lit	
Araneae (10)				
Barychelidae				
	Nihoa mahina Churchill & Raven, 1992 endemic		Lit Rpt	00
Clubionidae				
	Cheiracanthium mordax L. Koch, 1866 adventive pale leaf spider		Lit	00
Lycosidae				
	Lycosa sp.....			00
Oecobiidae				
	Oecobius sp.....			00
Salticidae				
	Menemerus bivittatus (Dufour 1831) adventive.....			00
	Plexippus paykulli (Audouin, 1826) adventive			00
	Sandalodes sp. endemic?.....			00
Scytodidae				
	Scytodes striatipes (L. Koch, 1872) adventive.....			00
Theridiidae				
	Theridion sp. endemic?			00
Thomisidae				
	Mecaphesa insulanus (Keyserling, 1890) endemic		Lit	
Pseudoscorpionida (1)				
Cheliferidae				
	genus? species?.....		Rpt	00

INSECTA

Blattodea (4)				
Blaberidae				
<i>Pycnoscelus indicus</i> (Fabricius, 1775) adventive burrowing cockroach	Lit	.....	Rpt	00
Blattidae				
<i>Periplaneta americana</i> (Linnaeus, 1758) adventive American cockroach	Lit			
<i>Periplaneta australasiae</i> (Fabricius, 1775) adventive Australian cockroach	Lit	.....	Rpt	00
<i>Platyzosteria soror</i> (Brunner, 1865) adventive whitemargined cockroach	Lit	.....	Rpt	00
Coleoptera (36)				
Aderidae				
<i>Xylophilus marquesanus</i> Blair, 1934 adventive.....			Rpt	00
Aglycyderidae				
<i>Proterhinus abundans</i> Perkins, 1926 endemic.....	Lit	.....	Rpt	
<i>Proterhinus bryani</i> Perkins, 1926 endemic			Lit	
Anobiidae				
<i>Xyletobius gossypii</i> Ford, 1954 endemic.....	Lit	.....	Rpt	00
Anthribidae				
<i>Araecerus fasciculatus</i> (DeGeer, 1775) adventive coffee bean weevil	Lit			
<i>Araecerus n.sp.</i> (not <i>A. fasciculatus</i>) endemic?.....				00
Bostrichidae				
<i>Amphicerus cornutus</i> (Pallas, 1772) adventive powderpost bostrychid			Rpt	00
Cerambycidae				
<i>Plagithmysus nihoae</i> Perkins, 1926 endemic C2 Nihoa long-horned beetle	Lit			00
Chrysomelidae				
<i>Epitrix hirtipennis</i> (Melsheimer, 1847) adventive tobacco flea beetle	Lit	.....	Rpt	00
Ciidae				
<i>Cis vagans</i> Perkins, 1926 endemic.....			Lit	
Cleridae				
<i>Necrobia rufipes</i> (DeGeer, 1775) adventive redlegged ham beetle	Lit			
Coccinellidae				
<i>Coccinella septempunctata</i> Linnaeus, 1758 purposely introduced sevenspotted lady beetle			Rpt	00
<i>Coelophora inaequalis</i> (Fabricius, 1775) purposely introduced common Australian lady beetle ...	Lit			
<i>Diomus debilis</i> (LeConte, 1852) purposely introduced.....			Lit	00
<i>Nephus roepkei</i> (Fluiter, 1938) purposely introduced.....			Lit	00
<i>Scymnus loewii</i> Mulsant, 1850 purposely introduced			Lit	..... Rpt
Cucujidae				
<i>Cryptamorpha desjardinsi</i> (Guerin-Meneville, 1844) adventive.....	Lit	.....	Rpt	
Curculionidae				
<i>Oodemas breviscapum</i> Perkins, 1926 endemic C2 Nihoa oodemas weevil	Lit	.....	Rpt	
<i>Oodemas erro</i> Perkins, 1926 endemic C2 wandering oodemas weevil	Lit	.....	Rpt	
<i>Oodemas laysanensis</i> Fullaway, 1914 endemic C2 Laysan oodemas weevil	Lit	.....	Rpt	00
<i>Rhyncogonus exsul</i> Perkins, 1926 endemic C2 Nihoa rhyncogonus weevil	Lit	.....	Rpt	00
<i>Stenotrupis pritchardiae</i> (Perkins, 1926) endemic C2 Nihoa stenotrupis weevil	Lit	.....	Rpt?	00
Dermestidae				
<i>Dermestes ater</i> DeGeer, 1774 indigenous? black larder beetle	Lit	.....	Rpt	00
<i>Dermestes frischii</i> Kugelann, 1792 adventive?	Lit	.....		00
<i>Dermestes maculatus</i> DeGeer, 1774 indigenous hide beetle	Lit			
<i>Labrocerus auratus</i> Beal, 2000 endemic			Rpt	00
Elateridae				
<i>Itodacnus nihoae</i> Samuelson & Johnson, 1995 endemic	Lit	.....	Rpt	
<i>Itodacnus n.sp.</i> endemic				00
Histeridae				
<i>Plaesius javanus</i> Erichson, 1834 purposely introduced.....			Lit	
<i>Saprinus lugens</i> Erichson, 1834 adventive				00
Lathridiidae				
<i>Lathridius sp. - 1967 ?</i>			Lit	
Nitidulidae				
<i>Carpophilus dimidiatus</i> (Fabricius, 1792) adventive corn sap beetle			Lit	..... Rpt
Scolytidae				
<i>Hypothenemus eruditus</i> (Westwood, 1835) adventive			Rpt	
Staphylinidae				
<i>Atheta coriaria</i> (Kraatz, 1856) adventive.....			Lit	..... Rpt
Tenebrionidae				
<i>Sciophagus pandanicola</i> (Boisduval, 1835) indigenous			Lit	..... Rpt
Trogidae				
<i>Trox suberosus</i> Fabricius, 1775 adventive.....				Rpt

Collembola (2)			
Entomobryidae			
genus? species?.....		Rpt	
Hypogastruridae			
<i>Brachystomella kiko</i> Christiansen & Bellinger, 1992 endemic.....	Lit		
Dermoptera (4)			
Carcinophoridae			
<i>Anisolabis maritima</i> (Bonelli, 1832) indigenous	Rpt		
<i>Anisolabis</i> sp.....	Rpt		
<i>Euborellia annulipes</i> (Lucas, 1847) adventive ringlegged earwig	Lit	Rpt	00
Labiduridae			
<i>Labidura riparia</i> (Pallas, 1773) adventive striped earwig	Rpt		
Diptera (31)			
Agromyzidae			
<i>Liriomyza pusilla</i> (Meigen, 1830) ! not Hawaiian?	Lit		
<i>Liriomyza sativae</i> Blanchard, 1938 adventive vegetable leafminer	Rpt		00
<i>Pseudonapomyza spicata</i> (Malloch, 1914) adventive.....	Lit		
Asteiidae			
<i>Asteia aberrans</i> Hardy & Delfinado, 1980 endemic	Lit	Rpt	
<i>Bryania bipunctata</i> Aldrich, 1931 endemic C2 Nihoa two-spotted asteriid fly	Lit	Rpt	
Calliphoridae			
<i>Chrysomyia megacephala</i> (Fabricius, 1794) adventive Oriental blow fly			00
<i>Lucilia sericata</i> (Meigen, 1826) adventive greenbottle fly	Lit	Rpt	
Canacidae			
<i>Canaceoides angulatus</i> Wirth, 1969 adventive.....	Lit	Rpt	
<i>Canaceoides hawaiensis</i> Wirth, 1969 endemic	Lit	Rpt	
Cecidomyiidae			
genus? species?.....		Rpt	
Ceratopogonidae			
genus? species?.....		Rpt	
Chironomidae			
<i>Chironomus crassiforceps</i> (Kieffer, 1916) adventive.....	Lit		
<i>Telmatogeton pacificus</i> Tokunaga, 1935 indigenous.....	Lit		
Chloropidae			
<i>Siphunculina striolata</i> (Wiedemann, 1830) adventive.....	Lit	Rpt	00
Dolichopodidae			
<i>Thambemyia acrosticalis</i> (Parent, 1937) endemic?.....	Lit	Rpt	
Drosophilidae			
<i>Scaptomyza hamata</i> Hardy, 1965 endemic	Lit		
Ephydriidae			
<i>Atissa antennalis</i> Aldrich, 1931 endemic?.....	Lit		
<i>Scatella sexnotata</i> Cresson, 1926 indigenous.....	Lit	Rpt	
Hippoboscidae			
<i>Olfersia aenescens</i> Thomson, 1869 indigenous.....			00
<i>Olfersia spinifera</i> (Leach, 1818) indigenous? frigate bird fly	Lit	Rpt	00
Keroplatidae			
<i>Tylparua insularis</i> (Grimshaw, 1901) endemic		Rpt	
Milichiidae			
<i>Desmometopa inaurata</i> Lamb, 1914 adventive.....		Rpt	
<i>Leptometopa beardsleyi</i> Hardy & Delfinado, 1980 endemic.....	Lit		
<i>Milicia orientalis</i> Malloch, 1913 adventive.....	Lit		
Muscidae			
<i>Musca domestica</i> Linnaeus, 1758 adventive house fly		Rpt	
Periscelididae			
<i>Stenomicra orientalis</i> Malloch, 1927 adventive.....		Lit	
Phoridae			
<i>Diplonevra peregrina</i> (Wiedemann, 1830) adventive.....	Lit	Rpt	
Sarcophagidae			
<i>Goniophyo bryani</i> Lopes, 1938 indigenous.....	Lit	Rpt	
Sphaeroceridae			
<i>Coproica hirtula</i> (Rondani, 1880) adventive	Lit	Rpt	
Syrphidae			
<i>Simosyrphus grandicornis</i> (Macquart, 1842) adventive.....		Lit	
Tachinidae			
<i>Lespesia archippivora</i> (Riley, 1871 purposely introduced lesser armyworm parasite fly	Lit		

Embiidina (1)			
Oligotomidae			
Aposthonia oceania (Ross, 1951) adventive oceanic embiid	Lit	Rpt	
Heteroptera (15)			
Anthocoridae			
Orius persequens (White, 1877) adventive.....	Lit		
Cydnidae			
Geotomus pygmaeus (Dallas, 1851) adventive oceanic burrower bug	Lit	Rpt	
Gerridae			
Halobates sericeus Eschscholtz, 1822 indigenous Pacific pelagic water strider	Lit		
Lygaeidae			
Geocoris punctipes (Say, 1832) adventive.....	Lit	Rpt	
Nysius longicollis Blackburn, 1888 endemic.....	Lit		
Nysius nihuae Usinger, 1942 endemic C2 Nihoa nysius seed bug	Lit	Rpt	
Nysius suffusus Usinger, 1942 endemic C2 Necker bunchgrass seed bug	Lit	Rpt	00
Reclada moesta White, 1878 adventive.....	Lit	Rpt	
Miridae			
Coridromius variegatus (Montrouzier, 1861) adventive.....		Rpt	00
Hyalopeplus pellucidus (Stal, 1859) endemic? transparentwinged plant bug	Lit	Rpt	
Rhinacloa forticornis Reuter, 1876 adventive western plant bug	Lit	Rpt	
Trigonotylus hawaiiensis (Kirkaldy, 1902) endemic Hawaiian grass bug	Lit	Rpt	
Nabidae			
Nabis capsiformis Germar, 1837 adventive pale damsel bug	Lit		
Nabis kahavalu (Kirkaldy, 1907) endemic	Lit	Rpt	
Rhopalidae			
Liorhyssus hyalinus (Fabricius, 1794) adventive hyaline grass bug	Lit	Rpt	
Homoptera (10)			
Aphididae			
Aphis craccivora C.L. Koch, 1854 adventive cowpea aphid	Lit		
Cicadellidae			
Circulifer tenellus (Baker, 1896) adventive beet leafhopper	Lit	Rpt	
Deltocephalus sonorus Ball, 1900 adventive.....	Lit	Rpt	
Empoasca solana DeLong, 1931 adventive southern garden leafhopper	Lit	Rpt	
Scaphytopius loricatus (Van Duzee, 1894) adventive yellowfaced leafhopper	Lit	Rpt	00
Delphacidae			
Sogatella kolophon (Kirkaldy, 1907) adventive grass delphacid	Lit	Rpt	
Diaspididae			
Odonaspis ruthae Kotinsky, 1915 adventive ruth grass scale	Lit	Rpt	
Halimococcidae			
Platycoccus tylocephalus Stickney, 1934 endemic	Lit	Rpt	
Pseudococcidae			
Clavicoccus erinaceus Ferris, 1948 endemic C2* Oahu abutilon clavicoccus mealybug	Lit		
Rhizoecus hawaiiensis (Hambleton, 1946) adventive.....	Lit		
Hymenoptera (41)			
Bethylidae			
Holepyris glabratus (Fabricius, 1798) adventive.....		Rpt	
Sclerodermus nihoaensis Timberlake, 1926 endemic C2 Nihoa sclerodermus wasp	Lit		
Sclerodermus sp.		Rpt	
Braconidae			
Allorhogas pallidiceps (Perkins, 1910) adventive.....	Lit		00
Apanteles carpatus (Say, 1836) adventive			00
Chelonus blackburni Cameron, 1887 adventive.....	Lit	Rpt	00
Cotesia marginiventris (Cresson, 1865) purposely introduced lawn armyworm parasite	Lit	Rpt	
Colletidae			
Hylaeus perkinsiana (Timberlake, 1926) endemic C2 Perkins' yellow-faced bee	Lit	Rpt	
Dryinidae			
genus? species?.....		Rpt	
Encyrtidae			
Acerophagus texanus (Howard, 1898) adventive.....		Rpt	
Blepyrus insularis (Cameron, 1886) adventive		Rpt	
Metaphycus flavus (Howard, 1881) adventive.....			00
Eulophidae			
Cirrospilus sp.....		Rpt	
Euderus metallicus (Ashmead, 1901) adventive?.....		Lit	

Hemiptarsenus semialbiclavus (Girault, 1916) adventive.....	Lit	
Neochrysocharis formosa (Westwood, 1833) adventive .....	.....	00
Sympiesis vagans (Timberlake, 1926) adventive .....	.....	Lit
Eupelmidae		
Eupelmus bryani (Timberlake, 1926) endemic?.....	.....	Lit
Eupelmus nihoaensis Timberlake, 1926 endemic C2 Nihoa eupelmus wasp.....	.....	Lit Rpt
Eupelmus robustus (Timberlake, 1926) endemic?.....	.....	Lit Rpt
Macroneura sp.....	.....	Rpt
Zaischnopsis sp.....	.....	Rpt
Formicidae		
Cardiocondyla emeryi Forel, 1881 adventive .....	.....	Rpt
Cardiocondyla nuda (Mayr, 1866) adventive .....	.....	Rpt
Cardiocondyla venustula Wheeler, 1908 adventive .....	.....	Lit Rpt
Monomorium florica (Jerdon, 1851) adventive .....	.....	Lit Rpt
Paratrechina longicornis (Latreille, 1802) adventive crazy ant.....	.....	Lit Rpt
Tapinoma melanocephalum (Fabricius, 1793) adventive tiny yellow house ant.....	.....	Lit Rpt
Tetramorium bicarinatum (Nylander, 1847) adventive Guinea ant.....	.....	Lit Rpt
Tetramorium tonganum Mayr, 1870 adventive.....	.....	Rpt
Ichneumonidae		
Diadegma blackburni (Cameron, 1883) adventive.....	.....	Lit Rpt
Mymaridae		
Anagrus nigriventris Girault, 1911 adventive.....	.....	Rpt
Gonatocerus mexicanus Perkins, 1912 adventive .....	.....	Lit
Gonatocerus ornatus Gahan, 1918 adventive?.....	.....	Rpt
Gonatocerus sp.....	.....	Rpt
Stephanodes reduvioli (Perkins, 1905) adventive.....	.....	00
Pteromalidae		
Spalangia drosophilae Ashmead, 1887 purposely introduced.....	.....	Lit
Spalangia sp. nr. lanaensis Ashmead, 1901 endemic.....	.....	Rpt
genus? species? - - -.....	.....	Lit
Scelionidae		
Telenomus sp. poss. vulcanus Perkins, 1910 endemic?.....	.....	Rpt
Trichogrammatidae		
genus? species?.....	.....	Rpt
Isoptera		
Kalotermitidae		
Neotermes connexus Snyder, 1922 adventive forest tree termite.....	.....	00
Lepidoptera (23)		
Cosmopterigidae		
Asymphorodes dimorpha (Busck, 1914) adventive .....	.....	Lit Rpt
Hyposmocoma arenella Walsingham, 1907 endemic.....	.....	Lit
Hyposmocoma malornata Walsingham, 1907 endemic .....	.....	Lit Rpt
Hyposmocoma new species 23 Zimmerman, 1978 endemic.....	.....	Lit Rpt
Hyposmocoma new species 28 Zimmerman, 1978 endemic.....	.....	Lit Rpt
Hyposmocoma quinquemaculata Walsingham, 1907 endemic.....	.....	Lit
Crambidae		
Lineodes ochrea Walsingham, 1907 adventive .....	.....	Lit Rpt
Spoladea recurvalis (Fabricius, 1775) adventive Hawaiian beet webworm.....	.....	Lit Rpt
Tamsica hyacinthina (Meyrick, 1899) endemic.....	.....	Lit
Tamsica sp.....	.....	Rpt
Gracillariidae		
Philodoria marginestrigata (Walsingham, 1907) endemic ilima leafminer.....	.....	Lit Rpt
Lycaenidae		
Lampides boeticus (Linnaeus, 1767) adventive bean butterfly.....	.....	Lit Rpt
Noctuidae		
Achaea janata (Linnaeus, 1758) adventive croton caterpillar .....	.....	Lit Rpt
Agrotis bryani (Swezey, 1926) endemic.....	.....	Lit Rpt
Amyna natalis (Walker, 1858) adventive ilima moth .....	.....	Rpt
Helicoverpa hawaiiensis (Quaintance & Brues, 1905) endemic Hawaiian bud moth.....	.....	00?
Helicoverpa pallida nihoaensis Hardwick, 1966 endemic.....	.....	Lit Rpt
Helicoverpa zea (Boddie, 1850) adventive bollworm, corn earworm, tomato fruitworm .....	.....	Lit
Oecophoridae		
Thyrocopa n.sp. nr. abusa Walsingham, 1978 endemic.....	.....	Rpt
Olethreutidae		
Crocidosema leprara (Walsingham, 1907) endemic?.....	.....	Lit

Pterophoridae					
	Megalorhipida leucodactylus (Fabricius, 1793) adventive.....			Lit	
Tineidae					
	Erechthias minuscula (Walsingham, 1897) adventive.....			Rpt	
	Monopis meliorella (Walker, 1863) adventive	Lit	Rpt	00	
Orthoptera (5)					
Acrididae	Schistocerca nitens (Thunberg, 1815) adventive vagrant grasshopper	Lit	Rpt	00	
Gryllidae	Caconemobius nihoensis Otte, 1994 endemic	Lit	Rpt		
	Thaumatomogryllus conanti Otte, 1994 endemic.....	Lit	Rpt		
Tettigoniidae	Banza nihoa Hebard, 1926 endemic C2 Nihoa banza conehead katydid	Lit	Rpt		
	Euconocephalus nasutus (Thunberg, 1815) adventive aggravating grasshopper	Lit	Rpt		
Psocoptera (3)					
Ectopsocidae	Ectopsocus perkinsi Banks, 1931 adventive.....		Lit		
Ellipsocidae	Kilauella sp.....			Rpt	
Lepidopsocidae	Lepidopsocus marmoratus (Banks, 1931) adventive.....		Lit		
Siphonaptera (1)					
	Parapsyllus sp.....			Rpt	
Thysanoptera (2)					
Phlaeothripidae	Haplothrips gowdeyi (Franklin, 1908) adventive black flower thrips		Lit		
Thripidae	Frankliniella schultzei (Trybom, 1910) adventive yellow flower thrips		Lit		
Thysanura (2)					
Lepismatidae	Acrotelsa hawaiiensis (Silvestri, 1904) adventive.....		Lit		
	genus? species?.....			Rpt	
CHILOPODA					
Lithomorpha (1)					
	genus? species?.....			Rpt	
Geophilomorpha (1)					
	genus? species?.....			Rpt	
Scolopendromorpha (1)					
Cryptopidae	Cryptops hortensis Leach, 1815 adventive.....				00
CRUSTACEA					
Isopoda (3)					
Armadillidae	Spherillo hawaiensis Dana, 1853 endemic?			Lit	
Ligiidae	Ligia hawaiensis (Dana, 1853) endemic.....			Lit	
Porcellionidae	Porcellionides pruinosis (Brandt, 1833) adventive.....			Lit	

PEARL & HERMES

ARACHNIDA

Acarı (13)					
Argasidae	Ornithodoros capensis Neumann, 1901 adventive			Lit	
Ixodidae	Ixodes laysanensis Wilson, 1964 endemic?.....			Lit	

Laelapidae	Hypoaspis aculeifer (G. Canestrini, 1884) adventive.....	Lit
	Hypoaspis queenslandicus (Womersley, 1956) adventive	Lit
	Pseudoparasitus tasmanicus (Womersley, 1956) adventive.....	Lit
	Pseudoparasitus vitzthumi (Womersley, 1956) adventive	Lit
Phytoseiidae	Neoseiulus oahuensis (Prasad, 1968) endemic.....	Lit
Raphignathidae	Raphignathus sp. - 1949 ?	Lit
Trombiculidae	Guntheria domrowi (Brennan, 1965) adventive.....	Lit
	Leptotrombidium intermedium (Nagayo, Mitamura & Tamiya, 1920) adventive.....	Lit
	Neoschoengastia gallinarum (Hatori, 1920) adventive.....	Lit
	Neotrombicula tamiyai (Philip & Fuller, 1950) adventive.....	Lit
Xolalgidae	n.gen. n.sp. - 1980 ?	Lit
Araneae (3)		
Clubionidae	Cheiracanthium mordax L. Koch, 1866 adventive pale leaf spider	00
Salticidae	Hasarius adansoni (Audouin, 1826) adventive.....	Lit 00
Scytodidae	Scytodes sp.....	00
INSECTA (78)		
Blattodea (3)		
Blaberidae	Pycnoscelus indicus (Fabricius, 1775) adventive burrowing cockroach	Lit 00
Blattidae	Periplaneta americana (Linnaeus, 1758) adventive American cockroach	Lit
	Periplaneta australasiae (Fabricius, 1775) adventive Australasian cockroach	00
Coleoptera (11)		
Anthribidae	Araecerus fasciculatus (DeGeer, 1775) adventive coffee bean weevil	Lit
Carabidae	genus? species? Not Tachys oahuensis	Coll
Cleridae	Necrobia rufipes (DeGeer, 1775) adventive redlegged ham beetle	Lit 00
Coccinellidae	Coelophora inaequalis (Fabricius, 1775) purposely introduced common Australian lady beetle	00
	Scymnus loewii Mulsant, 1850 purposely introduced	Lit 00
Cucujidae	Cryptamorpha desjardinsi (Guerin-Meneville, 1844) adventive.....	Lit
Curculionidae	Dryotribus solitarius Perkins, 1926 endemic.....	Lit
	Dryotribus wilderi Perkins, 1916 indigenous	Lit
Dermestidae	Dermestes ater DeGeer, 1774 indigenous? black larder beetle.....	Lit 00
	Dermestes maculatus DeGeer, 1774 indigenous hide beetle.....	Lit
Tenebrionidae	Alphitobius laevigatus (Fabricius, 1781) adventive black fungus beetle.....	Lit 00
Collembola (10)		
Entomobryidae	Cyphoderus similis Folsom, 1927 adventive	Lit
	Entomobrya atrocincta Schoett, 1896 adventive.....	Lit
	Entomobrya multifasciata (Tullberg, 1871) adventive	Lit
Hypogastruridae	Friesea ninau Christiansen & Bellinger, 1992 endemic.....	Lit
	Neanura muscorum (Templeton, 1835) adventive.....	Lit
	Oudemansia esakii (Kinoshita, 1932) adventive.....	Lit
Isotomidae	Axelsonia sarahae Christiansen & Bellinger, 1992 endemic?	Lit
	Cryptopygus thermophilus (Axelson, 1902) adventive.....	Lit
	Folsomides parvulus Stach, 1922 adventive.....	Lit
	Folsomina onychiurina Denis, 1931 adventive.....	Lit

Dermoptera (3)			
Carcinophoridae			
<i>Anisolabis maritima</i> (Bonelli, 1832) indigenous	Lit		00
<i>Euborellia annulipes</i> (Lucas, 1847) adventive ringlegged earwig	Lit		
<i>Euborellia eteronoma</i> (Borelli, 1909) endemic.....	Lit		
Diptera (16)			
Agromyzidae			
<i>Liriomyza sativae</i> Blanchard, 1938 adventive vegetable leafminer			00
<i>Liriomyza trifolii</i> (Burgess, 1880) adventive celery leafminer		Coll	
Calliphoridae			
<i>Lucilia graphita</i> Shannon, 1926 endemic	Lit		
Chloropidae			
<i>Siphunculina striolata</i> (Wiedemann, 1830) adventive.....	Lit		
Ephydriidae			
<i>Hecamede granifera</i> (Thomson, 1869) adventive	Lit		
Milichiidae			
<i>Leptometopa beardsleyi</i> Hardy & Delfinado, 1980 endemic	Lit		
<i>Milichiella lacteipennis</i> (Loew, 1865) adventive	Lit		00
Muscidae			
<i>Haematobia irritans</i> (Linnaeus, 1758) adventive horn fly	Lit		
<i>Musca domestica</i> Linnaeus, 1758 adventive house fly		Rpt	
Phoridae			
<i>Diplonevra peregrina</i> (Wiedemann, 1830) adventive.....	Lit		
<i>Megaselia scalaris</i> (Loew, 1866) adventive.....	Lit		
Sarcophagidae			
<i>Goniophyo bryani</i> Lopes, 1938 indigenous.....	Lit		
Syrphidae			
<i>Simosyrphus grandicornis</i> (Macquart, 1842) adventive	Lit		
Tephritidae			
<i>Bactrocera dorsalis</i> (Hendel, 1912) adventive oriental fruit fly	Lit		
<i>Ceratitis capitata</i> (Wiedemann, 1824) adventive Mediterranean fruit fly	Lit		
Tethinidae			
<i>Dasyrhicnoessa insularis</i> (Aldrich, 1931) indigenous?.....	Lit		
Embiidina (1)			
Oligotomidae			
<i>Oligotoma saundersii</i> (Westwood, 1837) adventive Saunders embiid	Lit		00
Heteroptera (8)			
Anthocoridae			
<i>Orius persequens</i> (White, 1877) adventive.....	Lit		00
Cydnidae			
<i>Geotomus pygmaeus</i> (Dallas, 1851) adventive oceanic burrower bug	Lit		
Gerridae			
<i>Halobates</i> sp.....			00
Lygaeidae			
<i>Nysius fullawayi</i> fullawayi Usinger, 1942 endemic C2 Fullaway's seed bug	Lit		00
<i>Nysius fullawayi</i> infuscatus Usinger, 1942 endemic	Lit		
<i>Nysius palor</i> Ashlock, 1963 adventive?.....	Lit		00
Miridae			
<i>Enzytatus modestus</i> (Distant, 1893) adventive tomato bug	Lit		
Nabidae			
<i>Nabis capsiformis</i> Germar, 1837 adventive pale damsel bug	Lit		00
Homoptera (8)			
Aphididae			
<i>Aphis craccivora</i> C.L. Koch, 1854 adventive cowpea aphid	Lit		
Delphacidae			
<i>Opiconsiva paludum</i> (Kirkaldy, 1910) adventive.....	Lit		
<i>Syndelphax disonymus</i> (Kirkaldy) adventive New State Record			00
<i>Toya dryope</i> (Kirkaldy, 1907) adventive.....			00
Diaspididae			
<i>Odonaspis ruthae</i> Kotinsky, 1915 adventive ruth grass scale	Lit		
Pseudococcidae			
<i>Antonina graminis</i> (Maskell, 1897) adventive rhodesgrass mealybug	Lit		
<i>Dysmicoccus brevipes</i> (Cockerell, 1893) adventive pineapple mealybug	Lit		
<i>Trionymus insularis</i> Ehrhorn, 1916 endemic	Lit		

Hymenoptera (7)		
Braconidae		
<i>Chelonus blackburni</i> Cameron, 1887 adventive.....	Lit	
Chalcididae		
<i>Proconura "migratoria"</i> MSName of Yoshimoto.....		Coll
Encyrtidae		
<i>Neodusmetia sangwani</i> (Subba Rao, 1957) adventive.....	Lit	
Formicidae		
<i>Cardiocondyla nuda</i> (Mayr, 1866) adventive	Lit	
<i>Pheidole megacephala</i> (Fabricius, 1793) adventive bigheaded ant	Lit	00
<i>Plagiolepis alluaudi</i> Emery, 1894 adventive little yellow ant	Rpt	
<i>Tetramorium bicarinatum</i> (Nylander, 1847) adventive Guinea ant	Lit	00
Lepidoptera (15)		
Cosmopterigidae		
<i>Asymphorodes dimorpha</i> (Busck, 1914) adventive	Lit	00
Crambidae		
<i>Chilo suppressalis</i> (Walker, 1863) adventive Asiatic rice borer	Lit	
<i>Hellula undalis</i> (Fabricius, 1781) adventive imported cabbage webworm		00
<i>Spoladea recurvalis</i> (Fabricius, 1775) adventive Hawaiian beet webworm	Lit	00
Noctuidae		
<i>Helicoverpa zea</i> (Boddie, 1850) adventive bollworm, corn earworm, tomato fruitworm	Lit	00
<i>Hypena laysanensis</i> (Swezey, 1914) endemic C3 Laysan dropseed noctuid moth	Lit	
<i>Leucania loreyimima</i> Rungs, 1953 adventive		00
<i>Spodoptera exempta</i> (Walker, 1856) adventive nutgrass armyworm	Lit	
<i>Spodoptera litura</i> (Fabricius, 1775) adventive	Lit	Rpt
<i>Spodoptera mauritia</i> (Boisduval, 1833) adventive lawn armyworm	Lit	
<i>Targalla delatrix</i> (Guenee, 1852) adventive eugenia caterpillar	Lit	
Olethreutidae		
<i>Crocidosema leprara</i> (Walsingham, 1907) endemic?.....		00
Plutellidae		
<i>Plutella xylostella</i> (Linnaeus, 1758) adventive diamondback moth	Lit	
Sphingidae		
<i>Hyles lineata</i> (Fabricius, 1775) adventive whitelined sphinx	Lit	Rpt
Tineidae		
<i>Decadarchis kerri</i> (Swezey, 1926) adventive.....	Lit	
Neuroptera (1)		
Chrysopidae		
<i>Chrysoperla comanche</i> (Banks, 1938) adventive comanche lacewing	Lit	
Phthiraptera (3)		
Menoponidae		
<i>Austromenopon transversum</i> (Denny, 1842) indigenous	Lit	
Philopteridae		
<i>Harrisoniella densa</i> (Kellogg, 1896) indigenous	Lit	
<i>Saemundssonia lari gonothorax</i> (Giebel, 1874) indigenous.....	Lit	
Siphonaptera (1)		
Rhopalopsyllidae		
<i>Polygenis gwyni</i> (Fox, 1914) adventive.....	Lit	
CHILOPODA (1)		
Geophilomorpha (1)		
Geophilidae		
<i>Honuaphilus alohanus</i> Chamberlin, 1926 endemic?	Lit	
CRUSTACEA (5)		
Isopoda (5)		
Eubelidae		
<i>Elumoides monocellatus</i> Taiti & Ferrara, 1983 adventive.....	Lit	
Philosciidae		
<i>Australophiloscia societatis</i> (Maccagno, 1932) indigenous	Lit	
<i>Littorophiloscia culebrae</i> (Moore, 1901) adventive	Lit	
Porcellionidae		
<i>Porcellionides pruinosus</i> (Brandt, 1833) adventive.....	Lit	
Trachelipodidae		
<i>Nagurus sundaicus</i> (Dollfus, 1898) adventive.....	Lit	

