Ecological Archives **A/E/M000-000-A1**

Brockerhoff, E.G., Kimberley, M., Liebhold, A.M., Haack, R.A., Cavey, J.F. 2013. Predicting how altering propagule pressure changes establishment rates of biological invaders across species pools. Ecology VOL:pp–pp.

APPENDIX B. Interception frequency and establishments of longhorned beetles and true bark beetles.

TABLE B1. Interception frequency and establishments of longhorned beetles (Cerambycidae) and true bark beetles (Scolytinae, part). Interception frequency is shown as a Poisson regression estimate based on interception records sourced from the USDA and the New Zealand Forest Research Institute, see methods and Appendix S1 for details). Only trans-continental and other long-distance range expansions were included in the analysis, and establishments likely to result from range fringe expansion were not considered. Countries with an asterisk indicate that establishment was not verified by the authors.

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Longhorned beetles (Cerambycidae)						
Acanthocinus aedilis	3.0	0	0	0		
Acanthocinus griseus	1.8	0	0	0		
Acanthoderes circumflexa	2.6	0	0	0		
Acanthoderes jaspideus	N/A	0	1	0	Portugal (Azores)	Cocquempot and Lindelöw 2010
Acanthoderes nigricans	0.4	0	0	0		
Achryson surinamum	1.1	0	0	0		
Acyphoderes aurulenta	1.5	0	0	0		
Adetus mucoreus	0.4	0	0	0		
Adrium artifex	0.4	0	0	0		
Agapanthia irrorata	0.4	0	0	0		
Aglaophis colobotheoides	0.4	0	0	0		
Allotisis unifasciata	0.4	0	0	0		
Anaglyptus mysticus	0.4	0	0	0		
Anaglyptus subfasciatus	4.4	0	0	0		
Anastrangalia sanguinolenta	0.4	0	0	0		
Ancita crocogaster	0.4	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Ancylocera bicolor	0.4	0	0	0		
Anelaphus cinereus	1.1	0	0	0		
Anelaphus moestus	0.4	0	0	0		
Anoplodera rufipes	0.4	0	0	0		
Anoplophora chinensis	0.4	0	1	0	Italy, Netherlands, France (eradicated)	Mattson et al. 2007, Cocquempot and Lindelöw 2010, Haack et al. 2010
Anoplophora glabripennis	2.2	1	1	0	US, Canada, Austria, Germany, France, Italy	Haack 2006, Haack et al. 2010, Cocquempot and Lindelöw 2010
Apomecyna saltator	1.1	0	1	0	Hawaii	Gressitt and Davis 1972
Arhopalus asperatus	0.4	0	0	0		
Arhopalus ferus	215.3	0	1	0	New Zealand	Hosking and Bain 1977
Arhopalus productus	3.0	0	0	0		
Arhopalus rusticus	100.2	0	1	0	Australia, Argentina	Wang and Leschen 2003, Di Iorio 2004b
Arhopalus rusticus obsoletus	4.5	0	0	1		
Arhopalus syriacus	338.8	0	1	0	Australia	Wang and Leschen 2003
Arhopalus unicolor	16.3	0	0	0		
Aridaeus thoracicus	N/A	0	1	0	New Zealand	Bain 1979
Aromia moschata	0.7	0	0	0		
Asemum amurense	2.6	0	0	0		
Asemum atrum	1.8	0	0	0		
Asemum moestum	1.8	0	0	0		
Asemum nitidum	0.4	0	0	0		
Asemum punctulatum	0.4	0	0	0		
Asemum striatum	10.7	0	0	0		
Astyochus setiger	0.4	0	0	0		
Atimia confusa	2.3	0	0	1		
Batocera lineolata	1.1	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Batocera rufomaculata	1.1	0	1	0	Israel, Madagascar, Reunion, Mauritius	Roll et al. 2005, Coquempot pers. comm. 2007
Bethelium signiferum	N/A	0	1	0	New Zealand	Brockerhoff and Bain 2000
Brazilianus lacordairei	0.4	0	0	0		
Cacodacnus hebridanus	0.4	0	0	0		
Cacodacnus planicollis	0.7	0	0	0		
Callichroma chiriquina	0.4	0	0	0		
Callidiellum rufipenne	378.7	1	1	0	US, Spain, France, Italy	Haack 2006, Di Iorio 2004, Mattson et al. 2007, Cocquempot and Lindelöw 2010
Callidiellum villosulum	3.0	0	0	0		
Callidiopsis scutellaris	3.3	0	1	0	New Zealand	Brockerhoff and Bain 2000, Withers 2001
Callidium aeneum	1.8	0	0	0		
Callidium antennatum	24.9	0	0	1		
Callidium violaceum	490.8	0	0	1		
Callipogon armillatus	0.7	0	0	0		
Callipogon barbatus	0.7	0	0	0		
Centrodera decolorata	4.5	0	0	1		
Cerambyx cerdo	0.4	0	0	0		
Ceresium geniculatum	0.4	0	0	0		
Ceresium guttaticolle	2.2	0	0	0		
Ceresium unicolor	9.2	0	1	0	Kenya, Mauritius	Gressitt and Davis 1972, Shine et. al. 2003
Chlorida costata	0.4	0	0	0		
Chlorida festiva	2.2	0	0	0		
Chloridolum cinnyris	0.4	0	0	0		
Chloridolum scytalicum	0.4	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Chlorophorus annularis	8.5	0	1	0	Hawaii, Spain	Gressitt and Davis 1972, Mattson et al. 2007, Shine et al 2003, Cocquempot and Lindelöw 2010
Chlorophorus pilosus	1.1	0	0	0		
Chlorophorus signaticollis	0.4	0	0	0		
Chlorophorus strobilicola	0.7	0	0	0		
Clytus arietis	8.1	0	0	0		
Clytus lama	1.1	0	0	0		
Coleocoptus senio	10.4	0	0	0		
Coptocercus biguttatus	5.9	0	0	0		
Coptocercus rubripes	5.2	0	1	0	New Zealand	Brockerhoff and Bain 2000, Withers 2001
Coptocercus rugicollis	6.3	0	0	0		
Coptocercus undulatus	0.7	0	0	0		
Coptocercus vicinus	0.4	0	0	0		
Coptops aedificator	N/A	0	1	0	Hawaii	Gressitt and Davis 1972
Cordylomera spinicornis	18.9	0	0	0		
Curtomerus flavus	N/A	0	1	1	Hawaii	Gressitt and Davis 1972
Cyrtophorus verrucosus	0.4	0	0	0		
Demonax ocularis	0.4	0	0	0		
Demonax transilis	1.5	0	0	0		
Dere thoracica	0.4	0	0	0		
Derobrachus geminatus	0.4	0	0	0		
Derolus mauritanicus	N/A	0	1	0	France*, Spain*	Cocquempot and Lindelöw 2010
Desmiphora hirticollis	0.7	0	0	0		
Diaxenes dendrobii	4.1	0	0	0		
Didymocantha obliqua	N/A	0	1	0	New Zealand	Bain 1979
Diorthus cinereus	0.4	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Distenia gracilis	0.4	0	0	0		
Distenia splendens	0.4	0	0	0		
Dorysthenes granulosus	0.4	0	0	0		
Dryoctenes scrupulosus	0.4	0	0	0		
Eburia mutica	0.4	0	0	0		
Eburia quadrigeminata	0.4	0	0	0		
Elaphidion conspersum	0.4	0	0	0		
Elaphidion irroratum	0.7	0	0	0		
Elaphidion mucronatum	2.2	0	0	0		
Elaphidion spinicorne	1.1	0	0	0		
Enaphalodes atomarius	3.0	0	0	0		
Epithora dorsalis	1.8	0	0	0		
Ergates faber	3.7	0	0	0		
Ergates spiculatus	13.6	0	0	1		
Eryphus laetus	0.4	0	0	0		
Eupogonius tomentosus	4.1	0	0	0		
Euryclelia cardinalis	0.4	0	0	0		
Eurymerus eburioides	0.7	0	0	0		
Eurynassa australis	3.0	0	0	0		
Euryphagus lundii	0.4	0	0	0		
Euryscelis suturalis	0.4	0	0	0		
Eurysthea lacordairei	0.4	0	0	0		
Eutetrapha sedecimpunctata	0.4	0	0	0		
Gelonaetha hirta	N/A	0	1	0	Hawaii	Gressitt and Davis 1972
Gnaphalodes trachyderoides	1.1	0	0	0		
Goes pulcher	2.3	0	0	1		
Gracilia minuta	4.1	1	1	0	Australia, USA	Danilevsky 2003, Linsley 1962
Graphisurus fasciatus	6.8	0	0	1		
Hesperandra glabra	0.4	0	0	0		
Heterachthes quadrimaculatus	0.4	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Hoplocerambyx spinicornis	3.0	0	0	0		
Hylotrupes bajulus	167.4	Pre-1909	1	0	Argentina, Brazil, Australia (Western), South Africa, Israel, USA	Danilevsky 2003, Di Iorio 2004b, Mattson et al 1994, Linsley 1964, DAF 2011
Icosium tomentosum	2.2	0	0	0		
Isotomus speciosus	0.7	0	0	0		
Knulliana cincta	0.4	0	0	0		
Lagocheirus araneiformis	2.6	0	0	0		
Lagocheirus undatus	0.4	0	1	0	Hawaii	Gressitt and Davis 1972
Lamia textor	8.5	0	0	0		
Leiopus nebulosus	0.7	0	0	0		
Leptostylus assimilis	0.4	0	0	0		
Leptura obliterata	0.4	0	0	0		
Lepturges confluens	2.3	0	0	1		
Lepturopsis dolorosa	11.3	0	0	1		
Lissonotus flavocinctus	N/A	0	0	1		
Lucasianus levaillantii	N/A	0	1	0	France	Cocquempot and Lindelöw 2010
Macropophora accentifer	0.4	0	0	0		
Macrotoma serripes	0.4	0	0	0		
Malacopterus tenellus	N/A	0	0	1		
Mallambyx raddei	0.4	0	0	0		
Mallodon downesi	1.1	0	0	0		
Mecotetartus antennatus	N/A	0	0	1		
Megacyllene angulata	0.4	0	0	0		
Megacyllene antennatus	N/A	0	0	1		
Megacyllene caryae	18.1	0	0	1		
Megacyllene robusta	0.4	0	0	0		
Megacyllene spinifera	0.7	0	0	0		
Merium proteus	9.0	0	0	1		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Mesosa perplexa	0.4	0	0	0		
Mimectatina meridiana	N/A	0	1	0	Hawaii	Gressitt and Davis 1972
Molorchus minor	45.1	0	0	0		
Moneilema ulkei	N/A	0	0	1		
Monochamus alternatus	16.6	0	0	0		
Monochamus carolinensis	N/A	0	0	1		
Monochamus clamator	N/A	0	0	1		
Monochamus galloprovincialis	4.4	0	0	0		
Monochamus grandis	0.4	0	0	0		
Monochamus notatus	2.3	0	0	1		
Monochamus obtusus	4.5	0	0	1		
Monochamus sartor	4.8	0	0	0		
Monochamus scutellatus	40.7	0	0	1		
Monochamus sutor	8.9	0	0	0		
Monochamus titillator	20.4	0	0	1		
Monochamus urssovi	0.4	0	0	0		
Morimus asper	0.7	0	0	0		
Nathrius brevipennis	3.0	1	1	0	USA, New Zealand, Argentina*	Brockerhoff and Bain 2000, Di Iorio 2004b, Linsley 1963
Neandra brunnea (Parandra brunnea)	4.5	0	1	1	Germany	Danilevsky 2003, Mattson et al. 2007, Cocquempot and Lindelöw 2010

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Neoclytus acuminatus	29.4	0	1	1	Switzerland, Czech Republic, Germany, France, Croatia, Hungary, Italy, Montenegro, Portugal (Madeira), Serbia, Slovenia, Argentina (?)	Lacey et al. 2004, Danilevsky 2003, Di Iorio 2004b, Linsley 1964, Mattson et al. 2007, Cocquempot and Lindelöw 2010
Neoclytus araneiformis	0.7	0	0	0		
Neoclytus bahamicus	0.4	0	0	0		
Neoclytus cacicus	1.1	0	0	0		
Neoclytus caprea	2.3	0	0	1		
Neoclytus cordifer	N/A	0	0	1		
Neoclytus curvatus	1.1	0	0	0		
Neoclytus leucozonus	1.5	0	0	0		
Neoclytus olivaceus	0.4	0	0	0		
Neoclytus scutellaris	6.8	0	0	1		
Neospondylis upiformis	9.0	0	0	1		
Niphona hookeri	0.7	0	0	0		
Niphona picticornis	0.4	0	0	0		
Noserius tibialis	0.4	0	0	0		
Nothopleurus bituberculata	0.4	0	0	0		
Nothorhina muricata	0.7	0	0	0		
Nothorhina punctata	0.4	0	0	0		
Nyphasia apicalis	1.1	0	0	0		
Nyssodrysina haldemani	N/A	0	0	1		
Obrium brunneum	0.4	0	0	0		
Obrium cantharinum	2.2	0	0	0		
Odontocera buscki	0.4	0	0	0		
Oedopeza ocellator	0.7	0	0	0		
Oeme costata	0.4	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Olenecamptus bilobus	1.5	0	0	0		
Olenecamptus octopustulatus formosanus	0.4	0	0	0		
Olethrius tyrannus	0.7	0	0	0		
Oopsis nutator	0.4	0	1	0	Hawaii	Gressitt and Davis 1972
Opsimus quadrilineatus	2.3	0	0	1		
Oxymerus aculeatus lebasi	N/A	1	1	0	Spain (Canary Islands), USA (Florida)	Thomas 2006, Cocquempot and Lindelöw 2010
Oxymerus luteus	0.4	0	0	0		
Oxymirus cursor	0.4	0	0	0		
Oxypleurus nodieri	8.1	0	0	0		
Ozineus prolixus	0.4	0	0	0		
Pachydissus sericus	0.4	0	0	0		
Palimna annulata	0.7	0	0	0		
Paracorymbia fulva	N/A	0	0	1		
Parelaphidion incertum	0.4	0	0	0		
Parmena balteatus	4.4	0	0	0		
Parmenonta minor	1.1	0	0	0		
Parmenonta ovatula	0.4	0	0	0		
Parmenonta valida	0.4	0	0	0		
Penichroa fasciata	0.7	0	0	0		
Perissus delerei	0.4	0	0	0		
Petrognatha gigas	0.4	0	0	0		
Phoracantha acanthocera	0.4	0	0	0		
Phoracantha mastersi	0.4	0	0	0		
Phoracantha recurva	3.7	1	1	0	US, Argentina, Chile, Spain, Greece, Italy, Malta, Portugal, Israel	Danilevsky 2003, Haack 2006, Bybee et al. 2004, Di Iorio 2004, Kliejunas et al 2001, Cocquempot and Lindelöw 2010

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Phoracantha semipunctata	75.1	1	1	0	USA, Argentina, Bolivia, Brazil, Chile, Peru, Uruguay, New Zealand, Hawaii, Israel, Portugal, Spain, Greece, France, Cyprus, Malta, Italy	Gressitt and Davis 1972, Brustel et al. 2002, Danilevsky 2003, Haack 2006, Bybee et al. 2004, Di Iorio 2004a, Kliejunas et al 2001, Cocquempot and Lindelöw 2010
Phoracantha tricuspis	0.4	0	0	0		
Phryneta leprosa	N/A	0	1	0	Malta, France	Cocquempot and Lindelöw 2010
Phrynidius asper	0.4	0	0	0		
Phymatodes alni	0.4	0	0	0		
Phymatodes dimidiatus	13.6	0	0	1		
Phymatodes lividus	3.3	1	1	0	USA*, Hawaii*, Uruguay*	Danilevsky 2003, Di Iorio 2004b, Mattson et al 1994
Phymatodes testaceus	68.1	0	0	0		
Physocnemum brevilineum	6.8	0	0	1		
Physocnemum violaceipenne	2.3	0	0	1		
Phytoecia coerulescens	0.4	0	0	0		
Phytoecia rufiventris	0.4	0	0	0		
Placosternus crinicornis	N/A	0	1	0	Hawaii	Gressitt and Davis 1972
Plagionotus arcuatus	27.7	0	0	0		
Plagionotus christophi	1.1	0	0	0		
Plagionotus detritus	0.7	0	0	0		
Plagionotus floralis	0.4	0	0	0		
Plectrodera scalator	N/A	0	0	1		
Plocaederus inconstans	0.4	0	0	0		
Plocaederus viridipennis	0.4	0	0	0		
Pogonocherus fasciculatus	10.4	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Pogonocherus hispidulus	3.0	0	0	0		
Pogonocherus hispidus	1.5	0	0	0		
Pogonocherus perroudi	0.7	0	0	0		
Prionus californicus	N/A	0	0	1		
Prionus coriarius	1.8	0	0	0		
Prosoplus bankii	0.4	0	1	0	Hawaii	Gressitt and Davis 1972
Psacothea hilaris	0.4	0	0	0		
Pterolophia alternata	0.4	0	0	0		
Pterolophia bigibbera	N/A	0	1	0	Hawaii	Gressitt and Davis 1972
Pterolophia camura	1.5	0	0	0		
Pyrrhidium sanguineum	120.6	0	0	0		
Rhagium bifasciatum	3.0	0	0	0		
Rhagium inquisitor	12.9	0	0	0		
Rhagium mordax	2.6	0	0	0		
Rhopalophora rugicollis	0.4	0	0	0		
Rhopalophora tenuis	4.4	0	0	0		
Rutpela maculata	0.4	0	0	0		
Saperda carcharias	51.0	0	0	0		
Saperda populnea	N/A	1	1	0	USA	Mattson et al 1994
Saperda scalaris	1.1	0	0	0		
Semanotus amethystinus	0.4	0	0	0		
Semanotus japonicus	0.7	0	0	0		
Semanotus ligneus	5.5	0	0	0		
Semanotus litigiosus	0.7	0	0	0		
Semanotus russicus	0.7	0	0	0		
Semanotus undatus	0.7	0	0	0		
Smodicum cucujiforme	1.1	0	0	0		
Spondylis buprestoides	3.3	0	0	0		
Stenocorus meridianus	0.7	0	0	0		
Stenoderus ostricilla	0.4	0	0	0		
Stenodontes dasytomus	0.4	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Stenodontes exsertus	0.4	0	0	0		
Stenopterus rufus	0.4	0	0	0		
Stenosphenus dolosus	2.3	0	0	1		
Stenygrinum quadrinotatum	3.0	0	0	0		
Stictoleptura canadensis	0.7	0	0	0		
Stictoleptura rubra	0.4	0	0	0		
Stizocera fragilis	0.4	0	0	0		
Strangalia aurulenta	0.7	0	0	0		
Strangalia nr aurulenta	0.4	0	0	0		
Stromatium barbatum	18.9	0	0	0		
Stromatium fulvum	0.4	0	1	0	Brazil, Jamaica, Cuba*, Portugal (Madeira)	Danilevsky 2003, Villiers 1978, Cocquempot and Lindelöw 2010
Stromatium longicorne	18.9	0	0	0		
Sybra alternans	34.0	1	1	0	USA, Hawaii*	Haack 2006, Gressitt and Davis 1972
Taeniotes cayennensis	N/A	0	1	0	Portugal (Azores)	Monne and Hovore 2005, Cocquempot and Lindelöw 2010
Tessarecphora arachnoides	0.4	0	0	0		
Tessaromma undatum	1.5	0	1	0	New Zealand	Brockerhoff and Bain 2000, Hawkeswood and Turner 1997
Tetropium castaneum	206.7	1	1	0	USA	LaBonte et al. 2005
Tetropium cinnamopterum	1.8	0	0	0		
Tetropium fuscum	9.6	0	1	0	Canada	Smith and Hurley 2000
Tetropium gabrieli	5.9	0	0	0		
Tetropium parallelum	0.4	0	0	0		
Tetropium parvulum	0.4	0	0	0		
Tetropium velutinum	2.2	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Tetrops praeusta	N/A	1	1	0	USA, Canada	Haack 2006
Thranius multinotatus signatus	0.4	0	0	0		
Tomopterus vespoides	0.7	0	0	0		
Trachyderes mandibularis	3.0	0	0	0		
Trachyderes striatus	0.7	0	0	0		
Trachyderes succincta	1.1	0	0	0		
Trichoferus campestris	0.7	0	1	0	Canada	Grebennikov et al. 2010
Trichoferus fasciculatus	0.4	0	0	0		
Trinophylum cribratum	N/A	0	1	0	UK	Cocquempot and Lindelöw 2010
Typocerus zebra	0.7	0	0	0		
Ulochaetes leoninus	1.1	0	0	0		
Xylotrechus antilope	1.1	0	0	0		
Xylotrechus arvicola	1.1	0	0	0		
Xylotrechus buqueti	0.4	0	0	0		
Xylotrechus chinensis	0.4	0	0	0		
Xylotrechus colonus	5.2	0	0	0		
Xylotrechus consocius	0.7	0	0	0		
Xylotrechus grayi	0.7	0	0	0		
Xylotrechus magnicollis	4.1	0	0	0		
Xylotrechus mucronatus	0.4	0	0	0		
Xylotrechus nauticus	0.4	0	0	0		
Xylotrechus nr. hircus	0.4	0	0	0		
Xylotrechus pyrrhoderus	0.7	0	0	0		
Xylotrechus rusticus	16.3	0	0	0		
Xylotrechus sagittatus	1.5	0	0	0		
Xylotrechus smei	0.7	0	0	0		
Xylotrechus stebbingi	0.4	0	1	0	Switzerland, Israel, Greece, Italy, Germany, France, Cyprus	Cocquempot and Lindelöw 2010

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Xylotrechus undulatus	2.2	0	0	0		
Xystrocera festiva	0.4	0	0	0		
Xystrocera globosa	18.1	0	1	0	Puerto Rico*	Monne and Hovore 2005
True bark beetles (Scolytinae, part)						
Carphoborus bifurcus	0.4	0	0	0		
Carphoborus bonnairei	0.4	0	0	0		
Carphoborus minimus	6.3	0	0	0		
Carphoborus pini	4.1	0	0	0		
Carphoborus ponderosae	6.8	0	0	1		
Carphoborus rossicus	0.4	0	0	0		
Chaetophloeus mexicanus	2.2	0	0	0		
Chaetoptelius vestitus	0.4	0	0	0		
Coccotrypes advena	0.4	0	0	0		
Cryphalus asperatus	3.0	0	0	0		
Cryphalus piceae	3.0	0	0	0		
Cryphalus wapleri	N/A	0	1	0		
Crypturgus borealis	6.8	0	0	1		
Crypturgus cinereus	7.0	0	0	0		
Crypturgus mediterraneus	13.7	0	0	0		
Crypturgus numidicus	2.6	0	0	0		
Crypturgus pusillus	2.3	Pre-1909	1	0	Canada, USA, New Zealand	Haack 2001, Brockerhoff et al. 2003, Brockerhoff et al. 2006
Cyrtogenius brevior	0.4	0	0	0		
Cyrtogenius fijianus	1.8	0	0	0		
Cyrtogenius luteus	3.7	0	0	0		
Dendroctonus frontalis	1.1	0	0	0		
Dendroctonus mexicanus	10.7	0	0	0		
Dendroctonus micans	0.4	0	1	0	UK	Brockerhoff et al. 2006 and references therein

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Dendroctonus ponderosae	6.8	0	0	1		
Dendroctonus pseudotsugae	4.5	0	0	1		
Dendroctonus rufipennis	4.5	0	0	1		
Dendroctonus valens	N/A	0	1	1	China	Brockerhoff et al. 2006, Sauvard et al. 2010 and references therein
Dryocoetes affaber	6.8	0	1	1	Ireland*	Bright and Skidmore 1997
Dryocoetes autographus	101.8	0	1	1	Brazil*	Robert Rabaglia pers. comm.
Dryocoetes hectographus	1.5	0	0	0		
Dryocoetes himalayensis	N/A	0	1	0	Switzerland, France	Knizek 2004, Sauvard et al. 2010
Dryocoetes striatus	0.4	0	0	0		
Dryocoetes villosus	15.2	0	0	0		
Hylastes angustatus	3.3	0	1	0	South Africa, Swaziland	Brockerhoff et al. 2006 and references therein
Hylastes ater	65.8	0	1	0	Australia, Chile, New Zealand	Brockerhoff et al. 2006 and references therein
Hylastes attenuatus	17.0	0	0	0		
Hylastes cunicularius	5.2	0	0	0		
Hylastes linearis	4.4	0	1	0	South Africa	Brockerhoff et al. 2006 and references therein
Hylastes nigrinus	4.5	0	0	1		
Hylastes opacus	1.8	1	1	0	USA	Haack 2001
Hylesinus crenatus	4.1	0	0	0		
Hylesinus toranio	0.7	0	1	0	Argentina	Brockerhoff et al. 2006 and references therein
Hylesinus varius	19.6	0	0	0		
Hylurgopinus rufipes	1.8	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Hylurgops glabratus	1.5	0	0	0		
Hylurgops incomptus	3.3	0	0	0		
Hylurgops interstitialis	0.4	0	0	0		
Hylurgops palliatus	304.4	1	1	0	USA	Haack 2001
Hylurgops planirostris	2.6	0	0	0		
Hylurgops rugipennis	2.3	0	0	1		
Hylurgus ligniperda	244.5	1	1	0	Australia, New Zealand, Japan, USA, Chile, Brazil*, Uruguay*, South Africa	Haack 2001, Brockerhoff et al. 2006 and references therein
Hylurgus micklitzi	0.4	0	0	0		
Hypoborus ficus	3.7	0	0	0		
Hypocryphalus mangiferae	2.6	0	0	0		
Ips acuminatus	35.9	0	0	0		
Ips amitinus	3.3	0	0	0		
Ips apache	3.3	0	0	0		
Ips avulsus	4.5	0	0	1		
Ips bonanseai	10.0	0	0	0		
Ips borealis	2.3	0	0	1		
Ips calligraphus	24.9	0	1	1	Philippines	Brockerhoff et al. 2006 and references therein
Ips cembrae	11.5	0	1	0	UK	Sauvard et al. 2010 and references therein
Ips confusus	2.3	0	0	1		
Ips duplicatus	0.7	0	0	0		
Ips grandicollis	110.8	0	1	1	Australia	Brockerhoff et al. 2006 and references therein
Ips integer	30.3	0	0	0		
Ips lecontei	15.9	0	0	0		
Ips mannsfeldi	2.6	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Ips mexicanus	1.8	0	0	0		
Ips montanus	2.3	0	0	1		
Ips nitidus	0.4	0	0	0		
Ips pini	13.6	0	0	1		
Ips plastographus	0.4	0	0	0		
Ips sexdentatus	193.8	0	0	0		
Ips typographus	195.6	0	0	0		
Orthotomicus angulatus	5.5	0	1	0	Fiji	Brockerhoff et al. 2006 and references therein
Orthotomicus caelatus	18.1	0	1	1	South Africa	Brockerhoff et al. 2006 and references therein
Orthotomicus erosus	451.6	1	1	0	Chile, South Africa, USA	Haack 2006, Brockerhoff et al. 2006 and references therein
Orthotomicus golovjankoi	0.4	0	0	0		
Orthotomicus laricis	24.4	0	1	0	Chile	
Orthotomicus proximus	3.3	0	1	0	Madagascar*	Brockerhoff et al. 2006 and references therein
Orthotomicus suturalis	7.4	0	0	0		
Phloeosinus armatus	0.4	1	1	0	USA	Haack 2001
Phloeosinus baumanni	0.4	0	0	0		
Phloeosinus canadensis	0.7	0	0	0		
Phloeosinus cupressi	N/A	0	1	1	Australia, New Zealand, Panama, Chile*	Brockerhoff et al. 2006 and references therein
Phloeosinus lewisi	0.7	0	0	0		
Phloeosinus perlatus	4.8	0	0	0		
Phloeosinus pini	2.3	0	0	1		
Phloeosinus rudis	60.7	0	1	0	France, Netherlands	Brockerhoff et al. 2006 and references therein
Phloeotribus scarabaeoides	21.8	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Phloeotribus schoenbachi	0.4	0	0	0		
Pityogenes bidentatus	30.0	1	1	0	Madagascar, USA	Haack 2001, Brockerhoff et al. 2006 and references therein
Pityogenes bistridentatus	21.8	0	0	0		
Pityogenes calcaratus	1.8	0	0	0		
Pityogenes chalcographus	441.2	0	1	0	Jamaica*	Wood and Bright 1992, Brockerhoff et al. 2006 and references therein
Pityogenes hopkinsi	6.8	0	0	1		
Pityogenes pennidens	0.4	0	0	0		
Pityogenes quadridens	12.6	0	0	0		
Pityogenes trepanatus	0.4	0	0	0		
Pityokteines curvidens	2.6	0	1	0	Japan*, South Africa*	Brockerhoff et al. 2006 and references therein, M. Knizek pers. comm.
Pityokteines sparsus	4.5	0	0	1		
Pityokteines spinidens	7.8	0	0	0		
Pityokteines vorontzowi	0.4	0	0	0		
Pityophthorus juglandis	2.3	0	0	1		
Pityophthorus mexicanus	2.6	0	0	0		
Pityophthorus micrographus	0.7	0	0	0		
Pityophthorus pityographus	6.7	0	0	0		
Pityophthorus pulicarius	0.4	0	0	0		
Pityophthorus sambuci	0.4	0	0	0		
Polygraphus poligraphus	34.4	0	1	0	South Africa*	Brockerhoff et al. 2006 and references therein
Polygraphus proximus	1.1	0	0	0		
Polygraphus rufipennis	49.8	0	1	1	South Africa*	Brockerhoff et al. 2006 and references therein
Polygraphus subopacus	2.6	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Pseudohylesinus nebulosus	2.3	0	0	1		
Pseudohylesinus variegatus	1.1	0	0	0		
Pseudopityophthorus pruinosus	0.4	0	0	0		
Pseudopityophthorus yavapaii	0.4	0	0	0		
Pteleobius kraatzi	0.7	0	0	0		
Pteleobius vittatus	1.1	0	0	0		
Pycnarthrum pallidum	0.4	0	0	0		
Scolytogenes jalapae	0.4	0	0	0		
Scolytus amygdali	1.1	0	0	0		
Scolytus intricatus	17.0	0	0	0		
Scolytus kirschii	N/A	0	1	0	South Africa	Six et al. 2005
Scolytus mali	4.5	Pre-1909	1	0	Canada, USA	Haack 2001, Brockerhoff et al. 2006 and references therein
Scolytus multistriatus	5.5	1	1	0	Canada, USA, New Zealand, Chile, Mexico*	Haack 2001, Brockerhoff et al. 2006 and references therein
Scolytus ratzeburgi	0.4	0	0	0		
Scolytus rugulosus	N/A	Pre-1909	1	0	Argentina, Brazil, Canada, Chile, Mexico, Peru, Uruguay, USA	Haack 2001, Brockerhoff et al. 2006 and references therein
Scolytus schevyrewi	1.8	1	1	0	USA	Haack 2006 and references therein
Scolytus scolytus	17.8	0	0	0		
Scolytus sulcifrons	1.1	0	0	0		
Taphrorychus bicolor	12.2	0	0	0		
Taphrorychus villifrons	25.5	0	0	0		
Tomicus destruens	0.4	0	0	0		
Tomicus minor	4.1	0	0	0		

Genus, species	Interception frequency estimate from Poisson regression	Established in the continental USA (0, no; 1, yes)	World established (0, no; 1, yes)	USA native (0, no; 1, yes)	Countries where established	References for establishments
Tomicus piniperda	140.2	1	1	0	Canada, USA	Haack 2001, Brockerhoff et al. 2006 and references therein
Xylechinus pilosus	2.2	0	0	0		

LITERATURE CITED

Bain, J. 1979. The Australian longhorns *Aridaeus thoracicus* and *Didymocantha obliqua* (Coleoptera : Cerambycidae) established in New Zealand. New Zealand Entomologist 7:49–51.

Bright, D. E., and R. E. Skidmore. 1997. A Catalog of Scolytidae and Platypodidae (Coleoptera), Suppl. 1 (1990–1994). NRC Research Press, Ottawa, Ontario, Canada.

Brockerhoff, E. G., and J. Bain. 2000. Biosecurity implications of exotic beetles attacking trees and shrubs in New Zealand. New Zealand Plant Protection 53:321–327.

Brockerhoff, E. G., M. Knížek, and J. Bain. 2003. Checklist of indigenous and adventive bark and ambrosia beetles (Curculionidae: Scolytinae and Platypodinae) of New Zealand and interceptions of exotic species (1952–2000). New Zealand Entomologist 26:29–44.

Brockerhoff, E. G., J. Bain, M. Kimberley, and M. Knížek. 2006. Interception frequency of exotic bark and ambrosia beetles (Coleoptera: Scolytinae) and relationship with establishment in New Zealand and worldwide. Canadian Journal of Forest Research 36:289–298.

Brustel, H., P. Berger, and C. Cocquempot. 2002. Catalogue des Vesperidae et des Cerambycidae de la faune de France (Coleoptera). Annales de la Société Entomologique de France 38:443–461.

Bybee, L. F., J. G. Millar, T. D. Paine, K. Campbell, and C. C. Hanlon. 2004. Seasonal development of *Phoracantha recurva* and *P. semipunctata* (Coleoptera: Cerambycidae) in southern California. Environmental *Entomology* 33:1232–1241.

Cocquempot, C., and Å. Lindelöw. 2010. Longhorn beetles (Coleoptera, Cerambycidae). BioRisk 4(1):193–218.

[DAF] Department of Agriculture and Food, Western Australia. (2011). European house borer. [WWW document]. URL http://www.ehb.wa.gov.au (accessed 26 May 2011).

Danilevsky, M. L. 2003. Systematic list of longicorn beetles (Cerambycoidea, Coleoptera) of Europe. [WWW document]. URL http://www.cerambyx.uochb.cz/check_eur2.htm (accessed 27 May 2011).

Di Iorio, O. R. 2004a. Exotic species of Cerambycidae (Coleoptera) introduced in Argentina. Part 1. The genus *Phoracantha* Newman, 1840. Agrociencia 38:503–515.

Di Iorio, O. R. 2004b. Exotic species of Cerambycidae (Coleoptera) introduced in Argentina. Part 2. New records, host plants, emergence periods, and current status. Agrociencia 38:663–678.

Grebennikov, V. V., B. D. Gill, and R. Vigneault. 2010. *Trichoferus campestris* (Faldermann) (Coleoptera: Cerambycidae), an Asian wood-boring beetle recorded in North America. Coleopterists Bulletin 64(1):13–20.

Gressitt, J. L., and C. J. Davis. 1972. Seasonal occurrence and host-lists of Hawaiian Cerambycidae. Technical Report No. 5. Island Ecosystems IRP, U.S. International Biological Program, Honolulu, Hawaii.

Haack, R. A. 2001. Intercepted Scolytidae (Coleoptera) at U.S. ports of entry: 1985-2000. Integrated Pest Management Reviews 6:253–282.

Haack, R. A. 2006. Exotic bark and wood-boring Coleoptera in the United States: recent establishments and interceptions. Canadian Journal of Forest Research 36:269–288.

Haack, R. A., F. Hérard, J. Sun, and J. J. Turgeon. 2010. Managing invasive populations of *Anoplophora chinensis* and *A. glabripennis*: a worldwide perspective. Annual Review of Entomology 55:521–546.

Hawkeswood, T. J., and J. R. Turner. 1997. Review of the biology and larval host plants of the Australian longicorn beetle, *Tessaromma undatum* Newman (Coleoptera: Cerambycidae). Giornale Italiano di Entomologia 8:335–339.

Hosking, G. P., and J. Bain. 1977. *Arhopalus ferus* (Coleoptera: Cerambycidae); its biology in New Zealand. New Zealand Journal of Forestry Science 7:3–15.

Kliejunas, J. T., B. M. Tkacz, H. H. Burdsall, Jr., G. A. DeNitto, A. Eglitis, D. A. Haugen, and W. E. Wallner. 2001. Pest risk assessment of the importation into the United States of unprocessed Eucalyptus logs and chips from South America. Gen. Tech. Rep. FPL-GTR-124. U.S. Department of Agriculture, Forest Service, Madison, WI. 134 pp.

Knížek, M. 2004. Fauna Europaea: Scolytinae. In: Alonso-Zarazaga MA (Ed) Fauna Europaea: Curculionidae. Fauna Europaea version 1.1. [WWW document]. URL http://www.faunaeur.org (accessed 27 May 2011).

LaBonte, J. R., A. D. Mudge, and K. J. R. Johnson. 2005. Nonindigenous woodboring Coleoptera (Cerambycidae, Curculionidae: Scolytinae) new to Oregon and Washington, 1999–2002: Consequences of the intracontinental movement of raw wood products and solid packing materials. Proceedings of the Entomological Society of Washington 107(3):554–564.

Lacey, E. S., M. D. Ginzel, J. G. Millar, and L. M. Hanks. 2004. Male-produced aggregation pheromone of the Cerambycid beetle *Neoclytus acuminatus acuminatus.* Journal of Chemical Ecology 30:1493–1507.

Linsley, E. G. 1962. The Cerambycidae of North America. Part II. Taxonomy and Classification of the Parandrinae, Prioninae, Spondylinae and Aseminae. Univ. Calif. Publs. Entomol., Berkeley, California, Vol. 19. 102 pp.

Linsley E. G. 1963. The Cerambycidae of North America. Part IV. Taxonomy and Classification of the Subfamily Cerambycinae, tribes Elaphidionini Through Rhinotragini. Univ. Calif. Publs. Entomol., Berkeley, California, Vol. 21, 165 pp.

Linsley E. G. 1964. The Cerambycidae of North America. Part V. Taxonomy and Classification of the Subfamily Cerambycinae, tribes Callichromini Through Ancylocerini. Univ. Calif. Publs. Entomol., Berkeley, California, Vol. 22, 197 pp.

Mattson, W. J., P. Niemelä, I. Millers, and Y. Inguanzo. 1994. Immigrant phytophagous insects on woody plants in the United States and Canada: An annotated list. General Technical Report NC-169. United States Department of Agriculture Forest Service, North Central Forest Experimental Station, St. Paul, MN. 27 pp.

Mattson, W. J., H. Vanhanen, T. Veteli, S. Sivonen, and P. Niemelä. 2007. Few immigrant phytophagous insects on woody plants in Europe: legacy of the European crucible? Biological Invasions 9:957–974.

Monné, M. A., and F. T. Hovore. 2005. Checklist of the Cerambycidae of the Western Hemisphere. [WWW document]. URL http://www.cerambycids.com/checklist/MonneandHovore_2005.pdf (accessed 27 May 2011).

Robinson, W. H. 2005. Handbook of Urban Insects and Arachnids. Cambridge University Press, Cambridge, UK.

Sauvard, D., M. Branco, F. Lakatos, M. Faccoli, and L. R. Kirkendall. 2010. Weevils and bark beetles (Coleoptera, Curculionoidea). BioRisk 4(1):219–266.

Shine, C., J. K. Reaser, and A. T. E. Gutierrez. 2003. Invasive Alien Species in the Austral-Pacific Region: National Reports and Directory of Resources. Global Invasive Species Programme, Cape Town, South Africa.

Six, D. L., Z. W. de Beer, R. A. Beaver, L. Visser, and M. J. Wingfield. 2005. Exotic invasive elm bark beetle, *Scolytus kirschii*, detected in South Africa. South African Journal of Science 101:229–232.

Smith, G., and J. E. Hurley. 2000. First North American Record of the Palaearctic Species *Tetropium fuscum* (Fabricius) (Coleoptera: Cerambycidae). The Coleopterists Bulletin 54:540.

Thomas, M. C. 2006. Another Neotropical longhorn beetle (Coleoptera: Cerambycidae) apparently new to the mainland of Florida. Pest Alert. Florida Department of Agriculture and Consumer Services. [WWW document]. URL http://www.doacs.state.fl.us/pi/enpp/ento/oxymerus_aculeatus.html (accessed 27 May 2011)

Villiers, A. 1978. Faune des Coléoptères de France. 1. Cerambycidae. Encyclopédie Entomologique, Vol. 52. Lechevalier, Paris. 597 pp.

Wang, Q., and R. A. B. Leschen. 2003. Identification and distribution of *Arhopalus* species (Coleoptera: Cerambycidae: Aseminae) in Australia and New Zealand. New Zealand Entomologist 26:53–59.

Withers, T. M. 2001. Colonization of eucalypts in New Zealand by Australian insects. Austral Ecology 26:467–476.

Wood, S. L., and D. E. Bright. 1992. A Catalogue of Scolytidae and Platypodidae (Coleoptera), Part 2: Taxonomic Index. Vols. A and B. Great Basin Naturalist Memoirs 13, 1553 pp.