

Supplementary file 2 Overview of the study characteristics and methodological approaches of the selected papers

Study characteristics							Methodological approach		
Source + year	Country	Volunteer type	Project type	Target species	Target species group	Habitat type	Data collection + no. of respondents	Question type	Documentation
Asah and Blahna 2012	USA	IAS project volunteers	control	not specified	plant	terrestrial	Interviews (10) and online survey (242)	both	NO
Asah et al. 2014	USA	IAS project volunteers	control	not specified	plant	terrestrial	online survey (242)	open	NO
Atchison et al. 2017	Australia	specific target audiences (recreational fishers)	control	European carp (<i>Cyprinus carpio</i>)	fish	terrestrial	paper + online survey (154) and participant observations	closed	NO
Carballo-Cárdenas and Tobi 2016	Southern and Eastern Caribbean	specific target audiences (professional and recreational divers)	detection/monitoring	Indo-Pacific lionfish (<i>Pterois volitans/miles</i>)	fish	marine	interviews (78)	open	YES
Cerrano et al. 2017	Italy	specific target audiences (recreational divers)	detection/monitoring	green algae (<i>Caulerpa cylindracea</i>)	plant	marine	online survey (101)	closed	NO
Cerri et al. 2018	Italy	specific target audiences (hunters)	control	eastern cottontail (<i>Sylvilagus floridanus</i>)	mammal	terrestrial	paper survey (134)	other	YES
Crall et al. 2012	USA	other (participants of training courses on IAS)	other (training on IAS monitoring)	not specified	plant	terrestrial	paper survey	closed	YES
Crowley et al. 2018	United Kingdom	IAS project volunteers	control	grey squirrel (<i>Sciurus carolinensis</i>)	mammal	terrestrial	interviews (27)	other	YES

Dunn et al. 2021	United Kingdom	specific target audiences (residents of red squirrel areas)	control	grey squirrel (<i>Sciurus carolinensis</i>)	mammal	terrestrial	telephone survey (580)	closed	YES
Falk et al. 2016	USA	IAS project volunteers	control	Burmese pythons (<i>Python molurus bivittatus</i>)	reptile	terrestrial	observation	NA	NO
Garrard et al. 2020	Australia	specific target audiences (farmers, hunters, shooters, and land managers)	control	feral cats (<i>Felix catus</i>)	mammal	terrestrial	online survey (2627)	closed	YES
Harvey et al. 2016	USA	IAS project volunteers	control	Burmese pythons (<i>Python molurus bivittatus</i>)	reptile	terrestrial	online survey (660)	closed	NO
Jubase et al. 2021	South Africa	IAS project volunteers	control	invasive alien plant species	plant	terrestrial	online survey	open and closed	YES
Krasny and Lee 2002	USA	IAS project volunteers	other (planning of management)	several plant species	plant	terrestrial	in-person interviews during site visit	open	NO
Krželj et al. 2020	Croatia and Italy	the general public	detection/monitoring	bearded fireworm (<i>Hermodice carunculata</i>)	not specified	marine	online survey	closed	YES
Larson et al. 2016	USA and Canada	IAS project volunteers	control	house sparrow (<i>Passer domesticus</i>)	bird	terrestrial	online survey (448)	closed	NO
Marchante et al. 2016	Portugal	general population	detection/monitoring	several plant species	plant	terrestrial	survey	closed	NO
Marchante et al. unpublished	Portugal	IAS project volunteers	detection/monitoring	several plant species	plant	terrestrial	online survey	closed	NA

Marshall et al. 2016	Australia	specific target audiences (landowners)	control	serrated tussock (<i>Nassella trichotoma</i>)	plant	terrestrial	telephone survey (200) and workshops	closed	NO
Niemiec et al. 2016	Hawaii	specific target audiences (landowners / local residents)	control	albizia (<i>Falcataria moluccana</i>)	plant	terrestrial (island)	Interviews (17) and survey (243)	NA	NO
Pagès et al. 2018	Scotland	IAS project volunteers	control	tree mallow (<i>Lavatera arborea</i>)	plant	terrestrial (island)	Surveys (87 + 81) and interviews (18)	open	YES
Pagès et al. 2019	England and Scotland	IAS project volunteers	control	multiple IAS	mammals and plants	terrestrial	interviews (31 of which 15 with unpaid volunteers)	open	NO
Phillips et al. 2021	USA and Canada	IAS project volunteers	control	European starling (<i>Sturnus vulgaris</i>) and house sparrow (<i>Passer domesticus</i>)	bird	terrestrial	online survey (947)	NA	YES
Pocock et al. 2020	United Kingdom	IAS project volunteers	detection/monitoring	tree pests	tree pests	terrestrial	interviews (6)	NA	NO
Saavedra and Medina 2020	Spain (Canary Islands)	specific target audiences (farmers and pet/landowners)	control	ring-necked parakeet (<i>Psittacula krameri</i>)	bird	terrestrial (island)	observations	NA	NO
Scyphers et al. 2015	Mexico and USA	specific target audiences (spear fishers)	control	Indo-Pacific lionfish (<i>Pterois volitans/miles</i>)	fish	marine	online survey (232)	closed	NO
Servia et al. 2020	Spain	the general public	control	yellow-legged hornet (<i>Vespa velutina</i>)	insect	terrestrial	survey (94)	closed	NO
Stien and Hausner 2018	Norway	specific target audiences (hunters)	control	American mink (<i>Neovision vison</i>)	mammal	terrestrial	online survey (104)	closed	YES