

# Ecography

MS E4105

Shimazaki, A. and Miyashita, T. 2005. Variable dependence on detrital and grazing food webs by generalist predators: aerial insects and web spiders. – Ecography 28: 485–494.

Appendix 1. The classification of insects and their assignment to food webs. D: detritus food web, G: grazing food web, B: both food webs, U: unknown.

Order	Superfamily	Family	Subfamily	Genus or Species	Food web
Orthoptera land)		Acrididae			G
		Terigidae			D (forest)
					G (grass-)
		Grylidae			B
		Tettigoniidae			G
Mantodea		Mantidae			G
Psocoptera					U
Hemiptera	Fulgoroidea				G
	Cicadelloidea				G
	Psylloidea				G
	Cicadoidea				G
	Aphidoidea				G
	Coccoidea				G
		Pentatomidae			G
		Tingidae			G
		Coreidae			G
		Lygaeidae			G
		Miridae			G
		Plataspidae			G
		Berytidae			G
		Cydnidae			G
		Rhopalidae			G
		Alydidae			G
Thysanoptera		Anthocoridae			B
		Reduviidae			B
Neuroptera					G
Coleoptera	Coniopterygidae				G
	Hemerobiidae				G
	Chrysopidae				G
Coleoptera	Anthicidae				D
	Histeridae				D
	Erotylidae				D
	Carabidae				B
	Attelabidae				G
	Dermestidae				U
	Cerambycidae			<i>Pterolophia caudata</i>	B
				<i>Demonax transilis</i>	B
				<i>Chlorophorus japonicus</i>	B
				<i>Anaesthetis confosicollis</i>	B
Coleoptera	Oedemeridae				D
	Scolytidae				D
	Cryptophaginae				D
	Tetratomidae				D
	Nitidulidae				U
	Scarabaeidae			<i>Popillia japonica</i>	G
				<i>Nipponovalgus angusticollis</i>	D
				<i>Onthophagus atripennis</i>	D

	<i>Cetonia pilifera</i>	B
	<i>Heptophylla picea</i>	G
Harpalidae		U
Tenebrionidae		D
Elateridae		U
Languriidae		G
Silphidae		D
Anobiidae		D
Cantharidae		B
Melyridae		D
Buprestidae		G
Leiodidae		D
Catopidae		D
Salpingidae		U
Scaphidiidae		D
Endomychidae		D
Coccinellidae		G
Aderidae		U
Mordellidae		U
Scraptiidae		U
Staphylinidae		B
Chrysomelidae		G
Lagriidae		D
Throscidae		D
Anthribidae		D
Sphindidae		D
Phalacridae		G
Lathridiidae		D
Cucujidae		D
Lampyridae		D
Lampyridae		D
Brachinidae		U
Apionidae		G
Byrrhidae		G
Bruchidae		G
Corylophidae		D
Biphyllidae		D
Ptiliidae		D
Curculionidae		G
Alleculidae		D
Dermestidae		G
Merophysiidae		D
Silvanidae		D
Melandryidae		D
 Coleoptera		
Tabanidae		D
Dolichopodidae		U
Pipunculidae		G
Chamaemyiidae		G
Muscidae		U
Empididae		U
Cryptochetidae		G
Anisopodidae		D
Xylophagidae		D
Xylomyidae		D
Chloropidae		U
Clusiidae		D
Lonchaeidae		D
Calliphoridae		U
Bibionidae		D
Acroceridae		U
Lauxaniidae		U
Drosophilidae		D
Piophilidae		U
Therevidae		D
Sepsidae		D
Heleomyzidae		D
Aulacigastridae		G
Sarcophagidae		U
Scatopsidae		D
Ceratopogonidae		D
 Diptera		

	Syrphidae	<i>Eumerus</i> sp.	G
		<i>Episyphus balteatus</i>	G
		<i>Allobaccha apicalis</i>	G
		<i>Melanostoma</i> sp.	G
		<i>Paragus</i> sp.	G
		<i>Xylota</i> sp.	D
		<i>Baccha</i> sp.	G
		<i>Sphaeropnoria</i> sp.	G
		<i>Syrphus ribesii</i>	G
		<i>Cheilosia</i> sp.	B
		<i>Meliscaeva omogensis</i>	G
		<i>Megasyrphus annulipes</i>	G
		<i>Betasyrphus</i> sp.	G
		<i>Epistrophe</i> sp.	G
		<i>Rhingia laevigata</i>	D
		<i>Allobaccha</i> sp.	G
		<i>Eupeodes frequens</i>	G
		<i>Chalcosyrphus frontalis</i>	D
	Anthomyiidae		U
	Psilidae		G
	Ulidiidae		D
	Agromyzidae		G
	Sphaeroceridae		D
	Platystomatidae		U
	Fannidae		U
	Scatophagidae		U
	Diastadidae		U
	Otitidae		U
	Ephydriidae		U
	Tephritidae		G
	Asilidae		B
	Tachinidae		U
	Sciomyzidae		U
	Asteiidae		D
	Phoridae		D
	Milichiidae		D
	Tethinidae		U
	Periscelididae		U
	Cypselosomatidae		U
	Richardiidae		U
	Sciaridae		D
	Mycetophilidae		D
	Psychodidae		D
	Chironomidae		D
	Tipulidae		D
	Aulacigastridae		G
Diptera	Cecidomyiidae	<i>Cecidomyiinae</i>	G
		<i>Lestremiinae</i>	D
		<i>Porricondylinae</i>	D
Lepidoptera		<i>Ypthima motschulskyi niphonica</i>	G
		<i>Amata fortunei</i>	G
		<i>Everes argiades hellotia</i>	G
		<i>Mycalesis gotama fulginia</i>	G
		<i>Minois dryas bipunctatus</i>	G
		<i>Ypthima argus</i>	G
		<i>Zizeeria maha argia</i>	G
		<i>Lampides boeticus</i>	G
		<i>Lycaena phlaeas daimio</i>	G
Hymenoptera	Tenthredinoidea		G
	Siricoidea		D
	Ichneumonoidea		U
	Bethyloidea		U
	Formicoidea		
		<i>Pyramica</i> sp.	D
		<i>Aphaenogaster famelica</i>	D
		<i>Pristomyrmex pungens</i>	G
		<i>Paratrechina flavipes</i>	B
		<i>Lasius japonicus</i>	G
		<i>Pheidole fervida</i>	B
		<i>Camponotus itoi</i>	G

	<i>Vollenhovia emeryi</i>	U
	<i>Camponotus vitiosus</i>	G
	<i>Strumigenys lewisi</i>	D
	<i>Camponotus</i> sp.	B
	<i>Pachycondyla chinensis</i>	G
	<i>Myrmecina nipponica</i>	D
	<i>Crematogaster osakensis</i>	B
	<i>Camponotus keihitoi</i>	G
	<i>Camponotus japonicus</i>	B
	<i>Formica japonica</i>	B
	<i>Lasius</i> sp.	B
	<i>Pachycondyla pilosior</i>	D
	<i>Oligomyrmex yamatonis</i>	U
	<i>Tapinoma</i> sp.	B
	<i>Paratrechina sakurae</i>	B
	<i>Pyramica hexamera</i>	D
	<i>Polyrhachis moesta</i>	G
	<i>Cerapachys humicola</i>	U
	<i>Crematogaster teranishii</i>	G
	<i>Pyramica membranifera</i>	D
	<i>Cryptopone sauteri</i>	B
	<i>Lasius japonicus</i>	B
	<i>Tetramorium tsushimae</i>	B
	<i>Solenopsis japonica</i>	D
	<i>Hypoponera sauteri</i>	D
	<i>Amblyopone silvestrii</i>	D
	<i>Lasius hayashi</i>	B
	<i>Stenamma owstoni</i>	G
	<i>Crematogaster matsumurai</i>	G
	<i>Monomorium intrudens</i>	B
	<i>Amblyopone caliginosa</i>	D
	<i>Ponera japonica</i>	D
	<i>Technomyrmex gibbosus</i>	G
	<i>Camponotus kiusiuensis</i>	B
	<i>Camponotus obscuripes</i>	B
	<i>Leptocephalus congruus</i>	G
	<i>Camponotus yamaokai</i>	G
	<i>Ochetellus glaber</i>	G
	<i>Myrmicinae</i>	U
	<i>Polistinae</i>	G
	<i>Vespoidea</i>	G
	<i>Pompiloidea</i>	B
	<i>Scolioidae</i>	U
	<i>Sphecoidea</i>	U
	<i>Apoidea</i>	G

## Appendix 2. Body length and web height of spiders examined in this study.