



Supplementary Material

Seasonality and Climatic Factors Affect Diversity and Distribution of Arthropods Around Wetlands

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Supplementary Table I. List of arthropods collected over different seasons in two bodies of water in Faisalabad, Pakistan.

Class	Order	Family	Species	Lake				Canal					
				Spring	Summer	Autumn	Winter	Spring	Summer	Autumn	Winter		
Arachnida	Araneae	Clubionidae	<i>Clubiona pallidula</i>	0	3	0	7	3	9	0	0		
			<i>Clubiona spp.</i>	0	3	0	0	0	9	0	0		
		Lycosidae	<i>Arctosa spp.</i>	7	5	0	0	12	5	0	0		
			<i>Honga lenta</i>	11	7	11	0	6	0	0	0		
			<i>Trochosa ruricola</i>	0	0	0	0	9	7	3	8		
			<i>Philodromus dispar</i>	3	0	0	0	0	0	0	0		
		Insecta	Coleoptera	Anthicidae	<i>Anthicus cervinus</i>	0	8	24	0	0	0	0	0
					Carabidae	<i>Pterostichus anthracinus</i>	4	3	30	0	0	0	0
				<i>Pterostichus melanarius</i>		0	0	0	0	0	0	0	18
				Chrysomelidae	<i>Aulacophora foveicollis</i>	0	0	0	0	0	0	10	0
<i>Chrysolina cerealis</i>	0				0	0	0	0	0	12	0		
Coccinellidae	<i>Adalia bipunctata</i>			0	0	0	0	0	0	19	0		
	<i>Adalia decempunctata</i>			66	3	0	35	66	6	0	0		
	<i>Cheilomenes sexnuculata</i>			0	2	0	36	5	0	0	19		
	<i>Coccinella septempunctata</i>			146	0	0	0	72	15	0	17		
	<i>Coccinella undecimpunctata</i>			0	0	0	0	15	0	6	0		
	<i>Harmonia conformis</i>	0	0	0	0	3	0	0	6				
Dermestidae	<i>Micraspis frenata</i>	0	0	0	0	0	0	30	0				
	<i>Attagenus brunneus</i>	6	0	0	0	0	0	0	0				
	<i>Attagenus smirnovi</i>	3	9	15	0	0	0	0	0				
	<i>Dermestes maculatus</i>	3	15	0	0	0	0	0	0				

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Class	Order	Family	Species	Lake				Canal				
				Spring	Summer	Autumn	Winter	Spring	Summer	Autumn	Winter	
		Elateridae	<i>Elateridae</i> spp.	3	5	0	43	0	0	0	0	
		Hydrophilidae	<i>Eochrus blatchleyi</i>	0	0	17	0	0	0	0	0	
			<i>Hydrophilus piceus</i>	0	0	29	0	0	0	0	0	
		Melyridae	<i>Malachius bipustulatus</i>	0	0	18	0	0	0	0	0	
		Ptinidae	<i>Stegobium paniceum</i>	0	40	42	0	0	0	0	0	
			<i>Stegobium paniceum</i>	5	31	84	0	0	0	0	0	
		Scarabaeidae	<i>Amphimallon majale</i>	0	8	42	0	0	0	0	0	
			<i>Aphodius fossor</i>	2	27	0	0	0	0	0	0	
			<i>Scarabaeus viettei</i>	0	0	0	0	9	0	0	19	
		Staphylinoidea	<i>Dinaraea angustula</i>	6	5	0	12	0	0	0	0	
		Tenebrionidae	<i>Crypticus quisquilius</i>	5	9	12	0	0	0	0	0	
	Diptera	Agromyzidae	<i>liriomyza flavopleura</i>	2	0	0	0	0	0	0	0	
				<i>Adia cinerella</i>	0	0	0	0	0	0	0	6
				<i>Hydrophoria lancifer</i>	5	3	0	0	0	0	0	0
				<i>Anthomyza</i> spp.	9	0	8	0	0	0	0	0
			Asilidae	<i>Asilidae</i> spp.	0	3	0	0	0	0	0	0
				<i>Dioctria oelandica</i>	4	9	0	0	0	0	0	0
			Asteiidae	<i>Asteia amoena</i>	1	0	0	0	0	0	0	0
			Calliphoridae	<i>Calliphora livida</i>	1	3	0	0	0	16	0	0
				<i>Calliphora vomitoria</i>	0	0	0	0	0	0	0	14
				<i>Lucilia sericata</i>	21	6	0	0	119	6	6	6
			Chironomidae	<i>Chironomus plumosus</i>	0	3	15	13	0	0	0	0
				<i>Chironomus</i> spp.	5	3	4	0	0	0	0	0
				<i>Tanytarsus</i> spp.	328	153	153	15	0	13	59	60
			Cicadellidae	<i>Typhlocyba pomaria</i>	12	0	0	0	0	0	0	0
			Culicidae	<i>Anopheles freeborni</i>	0	0	0	0	12	6	6	0
				<i>Anophles labranchiae</i>	2	0	0	0	3	5	12	0
			<i>Culex pilosus</i>	0	0	0	0	35	0	32	34	
			<i>Culex pipens</i>	9	6	0	0	1	26	24	0	
			<i>Culex tritaeniorhynchus</i>	11	6	0	0	0	0	0	0	
		Drosophilidae	<i>Drosophila funebris</i>	0	13	62	0	0	22	43	0	
			<i>Drosophila hydei</i>	7	5	63	0	3	23	78	0	
			<i>Drosophila melanogaster</i>	3	0	0	12	0	0	0	0	
			<i>Drosophila suzukii</i>	6	0	27	0	0	0	0	0	
			<i>Sapromyza</i> spp.	33	0	0	0	0	0	0	0	
		Muscidae	<i>Musca domestica</i>	35	11	24	16	58	28	96	3	

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Class	Order	Family	Species	Lake				Canal			
				Spring	Sum- mer	Au- tumn	Win- ter	Spring	Sum- mer	Au- tumn	Win- ter
			<i>Potamia littoralis</i>	0	3	0	0	0	0	0	0
		Oestridae	<i>Dermatobia hominis</i>	0	0	0	0	0	0	0	5
		Psychodidae	<i>Clogmia albipunctata</i>	0	0	0	0	6	5	0	6
			<i>Psychoda</i> spp.	67	0	0	0	0	0	0	0
		Sarcophagidae	<i>Sarcophaga aurifrons</i>	5	12	0	0	0	0	0	0
			<i>Sarcophaga bercaea</i>	6	0	0	30	1	6	24	0
			<i>Sarcophaga</i> spp.	2	2	0	0	19	0	0	0
		Sciaridae	<i>Bradysia coprophila</i>	0	0	0	0	0	0	0	20
			<i>Bradysia</i> spp.	0	3	0	0	0	0	0	0
			<i>Lycoriella</i> spp.	5	0	0	0	0	0	0	0
			<i>Nemopoda nitidula</i>	0	0	0	0	0	0	12	0
			<i>Sepsis fulgens</i>	12	0	0	0	8	18	0	0
		Simuliidae	<i>Simulium slossonae</i>	0	0	0	0	2	0	0	9
			<i>Simulium</i> spp.	6	0	0	0	0	0	0	0
		Sphaeroceridae	<i>Coproica ferruginata</i>	24	0	0	0	0	0	0	0
		Stratiomyidae	<i>Beris geniculata</i>	0	9	0	0	0	0	0	0
			<i>Pachygaster leachii</i>	4	0	0	9	0	0	0	0
		Syrphidae	<i>Caesar australia</i>	0	0	0	0	0	6	0	0
			<i>Episyrphus balteatus</i>	0	0	0	0	9	18	6	0
			<i>Eupeodes corollae</i>	0	0	0	0	5	0	6	0
			<i>Orthonевра brevicornis</i>	3	0	0	0	0	0	0	0
			<i>Scaeva pyrastr</i>	6	3	0	0	0	0	0	0
		Tachinidae	<i>Pales pavidata</i>	0	3	4	0	0	0	0	0
		Tipulidae	<i>Tipula paludosa</i>	1	3	0	0	0	0	0	0
	Hemiptera	Anamorphaidae	<i>Symbiotes gibberosus</i>	0	0	0	0	2	0	3	0
		Aphididae	<i>Aphis gossypii</i>	3	0	0	0	0	0	0	0
			<i>Macrosiphum rosae</i>	0	0	0	0	6	0	0	0
			<i>Schizaphis graminum</i>	0	3	0	0	0	0	0	0
		Cicadellidae	<i>Amrasca biguttula</i>	0	0	0	0	73	15	9	0
			<i>Amrasca devastans</i>	0	0	0	0	0	7	0	0
			<i>Cicadulina mbila</i>	0	9	0	0	0	0	0	0
			<i>Evacanthus acuminatus</i>	0	0	0	0	7	6	0	0
			<i>Exitianus exitiosus</i>	4	12	6	0	6	0	0	0
			<i>Exitianus indicus</i>	91	45	96	9	0	0	0	0
			<i>Typhlocyba pomaria</i>	0	0	0	0	18	9	0	0
		Cimicidae	<i>Cimex lectularius</i>	5	0	0	0	0	0	0	0

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Class	Order	Family	Species	Lake				Canal				
				Spring	Sum- mer	Au- tumn	Win- ter	Spring	Sum- mer	Au- tumn	Win- ter	
		Erotylidae	<i>Erotylus incomparabilis</i>	0	0	0	0	0	0	0	3	
		Lygaeidae	<i>Oxycarenus hyalinipennis</i>	5	3	0	0	0	0	0	0	
			<i>Oxycarenus lavaterae</i>	1	1	0	0	0	0	0	0	
		Miridae	<i>Closterotomus norvegicus</i>	0	0	0	0	0	7	0	0	
		Pyrrhocoridae	<i>Dysdercus cingulatus</i>	18	15	0	0	13	11	0	0	
			<i>Pyrrhocoris apterus</i>	0	6	4	0	0	0	0	0	
	Hymenop- tera	Apidae	<i>Apis cerana</i>	0	0	0	27	0	0	0	0	
			<i>Apis dorsata</i>	6	0	0	22	7	15	27	21	
			<i>Apis florea</i>	8	5	0	12	0	0	0	6	
			<i>Apis mellifera</i>	5	6	15	31	48	5	30	2	
			Braconidae	<i>Doryctobracon areolatus</i>	0	0	0	0	0	15	0	0
			Formicidae	<i>Camponotus floridanus</i>	46	0	3	53	8	9	0	11
	<i>Camponotus ligniperdus</i>	26		13	3	15	6	0	0	4		
	<i>Camponotus pennsylvanicus</i>	9		9	0	6	1	12	3	0		
	<i>Camponotus ulcerosus</i>	0		5	0	0	0	0	0	0		
	<i>Cardiocondyla spp.s</i>	0		12	0	0	0	0	0	0		
	<i>Formica rufa</i>	8		0	0	15	0	0	0	0		
	<i>Nomia melanderi</i>	2		0	9	3	0	0	0	0		
	<i>Prenolepis imparis</i>	11		0	7	0	0	0	0	0		
	Ichneumonidae	<i>Lasius fuliginosus</i>		8	0	0	0	0	0	0	0	
		<i>Lasius niger</i>		20	15	15	3	0	0	0	0	
		<i>Pimpla spp.</i>	4	0	0	0	0	0	0	0		
	Proctotrupidae	<i>Phaneroserphus coreanus</i>	0	3	0	0	0	0	0	0		
	Sphecidae	<i>Sceliphron caementarium</i>	0	0	42	36	0	0	0	0		
	Vespidae	<i>Polistes carolina</i>	24	11	24	0	0	0	0	0		
		<i>Polistes watti</i>	0	20	3	0	5	40	3	0		
		<i>Vespa orientalis</i>	6	0	0	0	0	0	0	0		
	Lepidop- tera	Crambidae	<i>Ostrinia nubilalis</i>	2	0	27	0	0	5	27	0	
		Erebidae	<i>Caenurgina erechthea</i>	0	0	0	0	3	0	0	0	
		Geometridae	<i>Animomyia spp.</i>	0	3	0	0	0	0	0	0	
		Limacodidae	<i>Tortricidia pallida</i>	0	0	0	0	2	0	6	0	
		Lycaenidae	<i>Zizula hylax</i>	9	9	0	0	6	6	0	0	
			<i>Zizula spp.</i>	3	5	4	0	0	0	0	0	
		Noctuidae	<i>Basilodes pepita</i>	0	0	6	0	0	0	0	0	
			<i>Oria musculosa</i>	0	0	0	0	0	0	3	2	

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Class	Order	Family	Species	Lake				Canal				
				Spring	Sum- mer	Au- tumn	Win- ter	Spring	Sum- mer	Au- tumn	Win- ter	
		Nolidae	<i>Garella</i> spp.	0	0	0	0	0	3	0	0	
		Nymphalidae	<i>Danaus chrysippus</i>	21	7	15	35	0	0	0	0	
		Pieridae	<i>Pieris brassicae</i>	11	9	0	0	6	3	0	0	
			<i>Pieris rapae</i>	15	3	0	0	12	3	0	0	
		Tineidae	<i>Tineola bisselliella</i>	0	3	0	6	0	0	0	0	
		Tortricidae	<i>Epiphyas postvittana</i>	0	0	15	6	0	0	9	6	
Neuroptera		Chrysopidae	<i>Chrysoperla carnea</i>	3	0	0	3	0	0	0	0	
		Myrmeleontidae	<i>Myrmeleon formicarius</i>	0	3	0	0	0	0	0	0	
Orthoptera		Acrididae	<i>Acrida conica</i>	6	11	0	3	2	3	0	18	
			<i>Acrida exaltata</i>	10	5	8	0	0	0	0	0	
			<i>Acrida ungarica</i>	0	0	0	3	3	0	9	3	
			<i>Melanoplus bivittatus</i>	3	5	0	0	8	6	10	0	
			<i>Melanoplus borealis</i>	0	0	0	0	5	4	0	0	
			<i>Melanoplus differentialis</i>	8	0	30	0	9	0	0	7	
			<i>Melanoplus femerburum</i>	0	3	0	0	23	3	0	0	
			<i>Omocetus viridulus</i>	0	0	0	0	11	0	3	0	
			<i>Schistocerca americana</i>	0	0	0	0	2	3	21	6	
			<i>Schistocerca lineata</i>	0	3	0	0	0	0	0	0	
			<i>Schistocerca nitens</i>	2	0	0	3	5	5	6	9	
			<i>Schistocerca</i> spp.	15	19	0	0	0	0	0	0	
			Gryllidae	<i>Acheta domesticus</i>	0	11	0	0	0	0	0	0
				<i>Gryllus campestris</i>	0	0	0	0	0	3	0	0
			Lygaeidae	<i>Omocetus viridulus</i>	11	0	7	0	0	0	0	0
		Pyrgomorphidae	<i>Poecilocerus pictus</i>	0	3	0	0	0	0	0	0	
		Rhaphidophoridae	<i>Diestrammena asynamora</i>	0	0	0	0	0	0	3	1	
		Tettigoniidae	<i>Scudderia mexicana</i>	0	0	0	0	7	6	6	2	