

AT1

Taxones encontrados por época climática en cada charca estacional

AT1

Taxa found by climatic season in each temporary pond

Orden	Familia	Género	Época Lluvia						Época Seca					Abundancia Total	Abundancia Relativa
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C6		
Architaenioglossa	Ampullariidae	<i>Marisa</i>	2	0	0	0	0	0	0	0	0	0	0	2	0.1
		<i>Pomacea</i>	0	3	0	0	0	0	5	2	0	0	0	10	0.3
Basommatophora	Physidae	<i>Physa</i>	0	13	6	0	1	2	0	29	12	12	36	111	3.3
	Planorbidae	<i>Biomphalaria</i>	0	18	88	19	15	6	30	13	96	8	12	688	20.5
Coleoptera	Curculionidae	<i>Tanysphyrus</i>	0	0	0	9	0	0	0	5	1	0	0	15	0.4
		Morfo 1	13	4	8	2	0	0	2	3	2	1	0	35	1.0
	Dryopidae	<i>Pelonomus</i>	0	0	0	0	4	1	0	0	0	0	0	5	0.1
	Dytiscidae	<i>Anodocheilus</i>	0	0	0	0	0	0	0	2	1	0	0	3	0.1
		<i>Copelatus</i>	0	0	0	1	0	0	1	3	3	1	1	10	0.3
		<i>Cybister</i>	2	0	1	1	0	1	0	0	0	0	0	5	0.1
		<i>Desmopachria</i>	1	0	0	4	7	0	12	3	2	0	2	31	0.9
		<i>Hydrovatus</i>	0	0	0	0	0	0	9	5	0	0	0	14	0.4
		<i>Laccophilus</i>	10	0	9	10	9	3	10	8	4	0	1	64	1.9
		<i>Thermonectus</i>	8	0	0	2	1	2	0	0	0	0	0	13	0.4
		<i>Vatellus</i>	0	0	0	0	0	0	0	2	0	0	0	2	0.1
	Hydrochidae	<i>Hydrochus</i>	1	0	0	4	1	0	0	0	0	0	0	6	0.2
	Hydrophilidae	<i>Berosus</i>	4	1	0	0	1	0	0	2	0	0	0	8	0.2
		<i>Derallus</i>	0	0	0	0	0	0	10	24	5	7	8	54	1.6
		<i>Helochaeres</i>	0	0	0	0	0	0	16	25	7	5	10	63	1.9
		<i>Hydrobius</i>	0	2	0	0	0	0	0	0	2	0	0	4	0.1
		<i>Tormus</i>	2	0	0	0	0	0	0	0	0	0	0	2	0.1
		<i>Tropisternus</i>	40	8	21	18	6	10	8	12	8	8	7	146	4.3
		<i>Canthydrus</i>	0	0	0	0	0	0	12	2	4	2	0	20	0.6
	Noteridae	<i>Hydrocanthus</i>	23	6	27	10	20	10	36	10	21	2	11	176	5.2
		<i>Suphis</i>	0	1	26	2	16	3	4	4	22	0	12	90	2.7

		<i>Suphisellus</i>	0	0	0	0	0	0	0	3	8	0	0	0	11	0.3
	Scirtidae	<i>Ora</i>	0	0	0	0	0	0	0	7	10	2	5	0	24	0.7
		<i>Scirtes</i>	0	0	0	0	0	0	0	0	10	0	2	0	12	0.4
	Staphylinidae	<i>Staphylinidae</i> Morfo 1	0	0	0	1	0	0	0	0	0	0	0	0	1	0.0
Decapoda	Trichodactylidae	<i>Bottiella</i>	0	0	0	2	0	0	0	0	0	0	0	0	2	0.1
Diplostraca	Cyclestheriidae	<i>Cyclestheria</i>	13	29	4	0	0	0	0	8	5	3	0		62	1.8
Diptera	Ceratopogonidae	<i>Culicoides</i>	2	2	0	1	0	0	17	12	0	0	2		36	1.1
		<i>Provezzia</i>	0	0	0	0	0	0	0	0	0	7	0		7	0.2
	Chironomidae	<i>Ablabesmyia</i>	11	3	5	17	0	0	20	34	22	24	14		150	4.5
		<i>Chironomus</i>	2	0	7	3	6	8	5	13	3	1	0		48	1.4
		<i>Polypedilum</i>	0	0	0	0	0	0	0	0	4	0	0		4	0.1
		<i>Tanytarsus</i>	3	0	0	0	0	0	0	0	0	0	0		3	0.1
		Morfo 1	0	0	0	0	0	0	0	3	0	0	0		3	0.1
	Culicidae	<i>Culex</i>	19	0	3	0	3	7	4	8	0	15	6		65	1.9
		<i>Mansonia</i>	0	1	0	2	1	55	11	17	34	8	54		183	5.4
	Simuliidae	<i>Simulium</i>	0	0	0	0	0	0	0	2	0	0	0		2	0.1
	Stratiomyidae	<i>Odontomyia</i>	0	1	0	0	3	0	0	0	0	8	8		20	0.6
	Tabanidae	<i>Tabanus</i>	4	0	0	1	3	1	2	4	4	5	9		33	1.0
	Tipulidae	<i>Tipula</i>	0	0	0	0	6	0	0	0	0	0	0		6	0.2
Ephemeroptera	Baetidae	<i>Callibaetis</i>	2	1	0	1	6	0	0	0	0	0	0		10	0.3
Hemiptera	Belostomatidae	<i>Belostoma</i>	10	10	30	7	18	4	1	8	5	1	2		96	2.9
	Gerridae	<i>Eurygerris</i>	0	0	2	0	0	0	0	0	0	0	0		2	0.1
	Hydrometridae	<i>Hydrometra</i>	0	0	2	0	0	0	0	0	0	0	0		2	0.1
	Mesoveliidae	<i>Mesovelia</i>	6	0	3	0	9	0	0	0	0	0	0		18	0.5
	Naucoridae	<i>Pelocoris</i>	1	4	11	11	0	1	3	15	18	7	3		74	2.2
	Nepidae	<i>Ranatra</i>	0	0	0	0	9	0	0	1	0	0	1		11	0.3
	Notonectidae	<i>Buenoa</i>	19	3	28	17	21	20	0	6	4	0	7		125	3.7
	Pleidae	<i>Neoplea</i>	17	2	0	0	13	1	2	2	0	0	1		38	1.1
	Veliidae	<i>Microvelia</i>	1	0	0	0	2	0	0	0	0	0	0		3	0.1
		<i>Platyvelia</i>	0	0	0	0	2	0	0	0	0	0	0		2	0.1
		<i>Steinovelia</i>	0	0	0	0	2	0	0	0	0	0	0		2	0.1
Lepidoptera	Crambidae	<i>Samea</i>	0	0	0	2	0	0	0	0	0	0	0		2	0.1
Odonata	Aeshnidae	<i>Anax</i>	0	0	1	0	3	2	0	1	2	0	1		10	0.3

		<i>Remartinia</i>	0	0	0	3	0	0	0	0	0	0	0	3	0.1
	Coenagrionidae	<i>Acanthagrion</i>	41	0	1	8	2	7	9	3	2	7	4	84	2.5
	Libellulidae	<i>Nephepeltia</i>	1	0	0	0	7	6	7	11	14	7	13	66	2.0
		<i>Sympetrum</i>	0	0	8	5	29	0	1	8	11	7	2	71	2.1
		<i>Tramea</i>	3	4	10	0	17	4	0	18	5	0	0	61	1.8
		<i>Tauriphila</i>	3	2	0	0	0	0	7	14	29	8	6	69	2.1
	Protoneuridae	<i>Neoneura</i>	16	24	1	16	0	10	10	35	46	26	7	191	5.7
Ostracoda	Cyprididae	<i>Chlamydoteca</i>	13	0	0	11	98	1	0	3	13	19	3	161	4.8
Rhynchobdellida	Glossiphoniidae	<i>Helopdella</i>	0	0	0	3	0	0	0	0	0	0	0	3	0.1
Trombidiformes	Hydrachindae	<i>Arrenurus</i>	0	0	0	0	0	0	0	0	0	3	0	3	0.1
	Trombidiidae	<i>Trombidiidae</i> Morfo 1	0	0	0	0	0	0	0	2	0	0	0	2	0.1
		Total	29 3	14 2	30 2	19 3	48 5	16 5	26 4	53 3	41 3	20 9	35 9	3 358	100
		Total/época	1 580						1 778						

C1: Villa Leidy, C2: Los Trillizos C3: El Paraíso, C4: El Miquito, C5: Los Campanos y C6: La Dicha. Taxones encontrados en cada época climática en cada una de las charcas estacionales. C1: Villa Leidy, C2: Los Trillizos, C3: El Paraíso, C4: El Miquito, C5: Los Campanos y C6: La Dicha. S: época seca, Ll: época lluviosa. ND: no determinado porque la charca no tenía agua.

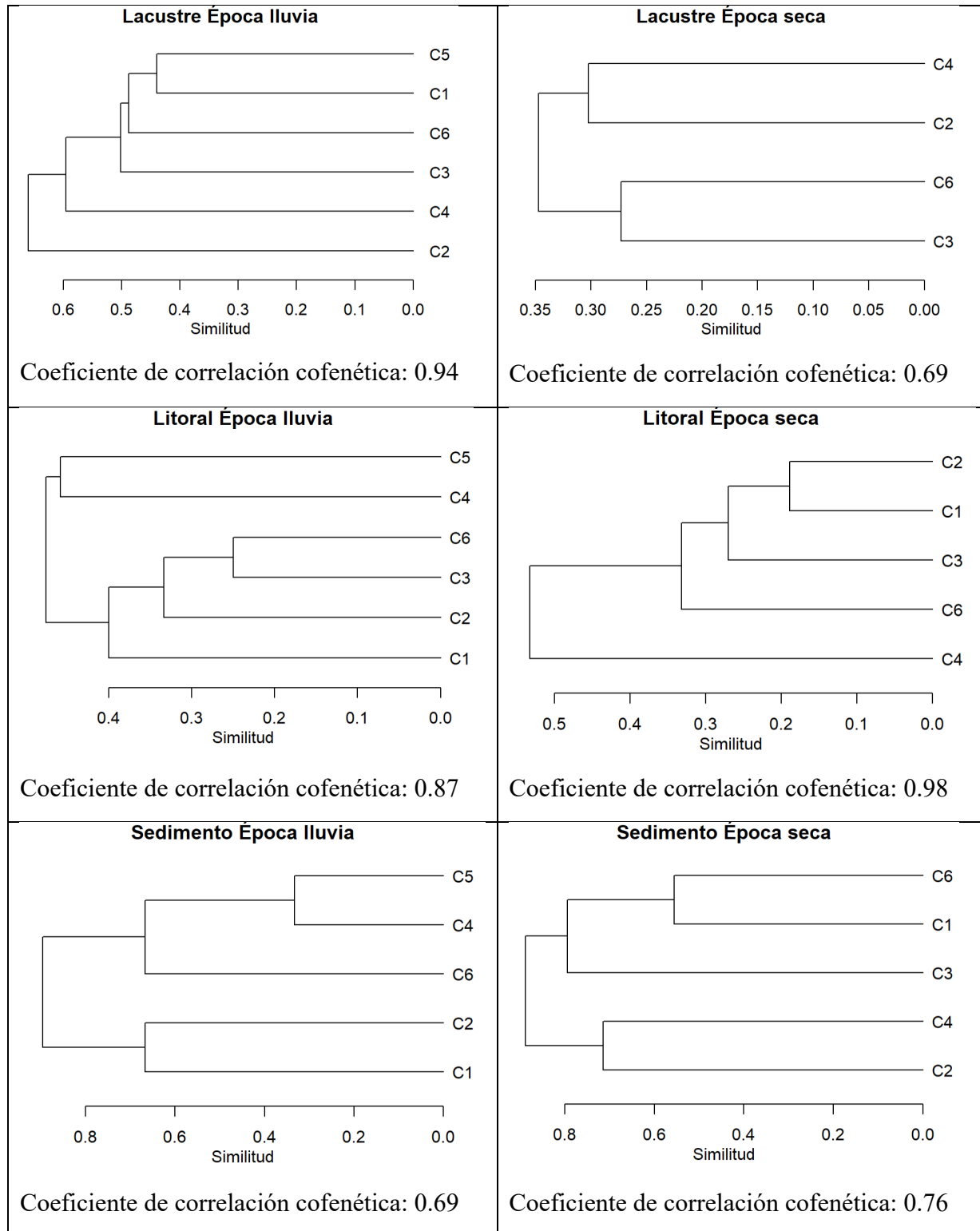
C1: Villa Leidy, C2: Los Trillizos, C3: El Paraíso, C4: El Miquito, C5: Los Campanos and, C6: La Dicha. S: dry season, Ll: rainy season. ND: Not determined because the pond haven't water.

AF1

Análisis de similitud Sorensen (cualitativo) de las charcas en cada microhábitat durante la época y seca y lluvias

AF1

Sorensen similarity analysis (qualitative) of temporary pond in each microhabitat in the dry and rainy seasons



C1: Villa Leidy, C2: Los Trillizos, C3: El Paraíso, C4: El Miquito, C5: Los Campanos y C6: La Dicha.
C1: Villa Leidy, C2: Los Trillizos, C3: El Paraíso, C4: El Miquito, C5: Los Campanos and, C6: La Dicha.

AT2

Listado de los macroinvertebrados encontrados en cada charca por microhábitat

AT2

List of macroinvertebrates found in each pond by microhabitat

	Familia	Taxon	Abundancia	%	E1			E2			E3			E4			E5			La
					Lac.	Lit.	Sed.	Lac.	Lit.	Sed.	Lac.	Lit.	Sed.	Lac.	Lit.	Sed.	Lac.	Lit.	Sed.	
ssa	Ampullariidae	<i>Marisa</i>	2	0.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		<i>Pomacea</i>	10	0.3	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ora	Physidae	<i>Physa</i>	111	3.3	0	0	0	23	19	0	5	13	0	12	0	0	0	1	0	1
	Planorbidae	<i>Biomphalaria</i>	688	20.5	0	18	12	18	136	0	109	63	12	13	8	6	62	68	29	5
	Curculionidae	Morfo 1	23	0.7	4	9	0	2	0	0	0	6	0	1	1	0	0	0	0	0
		Morfo 2	10	0.3	0	2	0	1	4	0	2	0	0	0	1	0	0	0	0	0
		Morfo 3	2	0.1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
		<i>Tanysphyrus</i>	15	0.4	0	0	0	0	5	0	1	0	0	1	8	0	0	0	0	0
	Dryopidae	<i>Pelonomus</i>	5	0.1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	1
	Dytiscidae	<i>Anodocheilus</i>	3	0.1	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0
		<i>Copelatus</i>	10	0.3	0	1	0	0	3	0	1	2	0	1	1	0	0	0	0	0
		<i>Cybister</i>	5	0.1	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
		<i>Desmopachria</i> sp.1	11	0.3	1	0	0	0	3	0	0	0	0	0	2	0	3	0	0	2
		<i>Desmopachria</i> sp.2	20	0.6	0	12	0	0	0	0	0	0	2	0	2	0	0	4	0	0
		<i>Hydrovatus</i>	14	0.4	0	9	0	0	5	0	0	0	0	0	0	0	0	0	0	0
		<i>Laccophilus</i> sp. 1	33	1.0	3	10	0	0	2	0	7	3	0	0	0	0	3	3	0	2
		<i>Laccophilus</i> sp. 2	31	0.9	0	7	0	0	6	0	0	3	0	0	10	0	0	3	0	0
		<i>Thermonectus</i> sp.1	11	0.3	8	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
		<i>Thermonectus</i> sp. 2	2	0.1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
		<i>Vatellus</i>	2	0.1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	Hydrochidae	<i>Hydrochus</i> sp.	6	0.2	1	0	0	0	0	0	0	0	0	0	4	0	0	1	0	0
	Hydrophilidae	<i>Berosus</i>	8	0.2	1	3	0	1	2	0	0	0	0	0	0	0	1	0	0	0

Family		Species																	
Family		Count	Mean	Min	Max	Q1	Q3	Median	Mode	Range	Stdev	Skewness	Kurtosis	Shapiro-Wilk	Anderson-Darling	Kolmogorov-Smirnov	Lilliefors	Chi-Square	P-Value
Noteridae	<i>c.f. formus</i> sp.	2	0.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Derallus</i>	54	1.6	0	9	1	5	19	0	2	3	0	4	3	0	0	0	0	1
	<i>Helochaeres</i> sp.1	9	0.3	0	2	0	1	6	0	0	0	0	0	0	0	0	0	0	0
	<i>Helochaeres</i> sp.2	54	1.6	0	14	0	2	16	0	2	1	4	2	3	0	0	0	0	0
	<i>Hydrobius</i>	4	0.1	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0
	<i>Tropisternus</i> sp.1	141	4.2	19	27	0	9	11	0	11	16	2	12	11	0	2	4	0	1
	<i>Tropisternus</i> sp.2	5	0.1	0	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0
	<i>Canthydrus</i> sp.	20	0.6	0	11	1	0	2	0	1	3	0	2	0	0	0	0	0	0
	<i>Hydrocanthus</i> sp.1	146	4.3	8	31	0	3	11	0	29	17	0	3	8	0	6	10	0	8
	<i>Hydrocanthus</i> sp. 2	30	0.9	0	20	0	0	2	0	1	1	0	0	1	0	0	4	0	0
Scirtidae	<i>Suphis</i> sp.	90	2.7	0	4	0	0	5	0	1	44	3	1	1	0	6	10	0	8
	<i>Suphisellus</i> sp.	11	0.3	0	3	0	0	8	0	0	0	0	0	0	0	0	0	0	0
Staphylinidae	<i>Scirtes</i> sp.	12	0.4	0	0	0	0	10	0	0	0	0	0	2	0	0	0	0	0
	<i>Ora</i> sp.	24	0.7	0	7	0	3	7	0	0	1	1	3	2	0	0	0	0	0
Staphylinidae	Morfo 1	1	0.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Trichodactylidae	<i>Bottiella</i> sp.	2	0.1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
Cyclestheriidae	<i>Cyclestheria</i> sp.	62	1.8	8	0	5	23	14	0	1	4	4	0	3	0	0	0	0	0
Ceratopogonidae	<i>Culicoides</i> sp.	36	1.1	0	17	2	12	1	1	0	0	0	0	1	0	0	0	0	0
	<i>Provezzia</i> sp.	7	0.2	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0
	<i>Ablabesmyia</i> sp.	150	4.5	6	18	7	11	26	0	5	16	6	23	18	0	0	0	0	0
Chironomidae	<i>Chironomus</i> sp.	48	1.4	0	5	2	3	8	2	8	2	0	0	3	1	6	0	0	2
	Morfo 1	3	0.1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Polypedilum</i> sp.	4	0.1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0

Family		Species																	
Family		Count	Weight	Length	Wing	Head	Thorax	Abdomen	Legs	Wings	Antennae	Compound Eyes	Compound Eyes	Compound Eyes	Compound Eyes	Compound Eyes	Compound Eyes	Compound Eyes	Compound Eyes
Culicidae	<i>Tanytarsus</i> sp.	3	0.1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Culex</i> sp.1	44	1.3	1	7	0	6	2	0	2	1	0	3	6	6	3	0	0	1
	<i>Cilex</i> sp. 2	21	0.6	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	<i>Mansonia</i>	183	5.4	0	11	0	1	17	0	9	25	0	8	2	0	0	1	0	9
Simulidae	<i>Simulium</i> sp.	2	0.1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Stratyomidae	<i>Odontomyia</i> sp.	20	0.6	0	0	0	1	0	0	0	0	0	0	8	0	2	1	0	0
Tabanidae	<i>Tabanus</i> sp.	33	1.0	3	3	0	0	4	0	1	3	0	3	3	0	3	0	0	2
Tipulidae	<i>Tipula</i> sp.	6	0.2	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0
raBaetidae	<i>Callibaetis</i> sp.	10	0.3	2	0	0	0	1	0	0	0	0	1	0	0	6	0	0	0
Belostomatidae	<i>Belostoma</i> sp.	96	2.9	4	7	0	5	13	0	19	16	0	1	6	1	8	10	0	2
Gerridae	<i>Eurygerris</i> sp.	2	0.1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Hydrometridae	<i>Hydrometra</i> sp.	2	0.1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Mesoeliidae	<i>Mesovelia</i> sp.	18	0.5	3	3	0	0	0	0	3	0	0	0	0	0	9	0	0	0
Naucoridae	<i>Pelocoris</i> sp.	74	2.2	0	4	0	4	15	0	4	24	1	7	11	0	0	0	0	2
Nepidae	<i>Ranatra</i> sp.	11	0.3	0	0	0	0	1	0	0	0	0	0	0	0	4	5	0	0
Notonectidae	<i>Buenoa</i> sp.1	118	3.5	4	11	0	2	7	0	12	16	1	13	4	0	15	6	0	1
	<i>Buenoa</i> sp.2	7	0.2	4	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Pleidae	<i>Neoplea</i> sp.	38	1.1	14	5	0	0	4	0	0	0	0	0	0	0	6	7	0	2
	<i>Microvelia</i> sp.	3	0.1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Veliidae	<i>Platyvelia</i> sp.	2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	<i>Steinovelia</i> sp.	2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Crambidae	<i>Samea</i> sp.	2	0.1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Aeshnidae	<i>Anax</i> sp.1	6	0.2	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0
	<i>Anax</i> sp.2	4	0.1	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0
	<i>Remartinia</i> sp.	3	0.1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
Coenagrionidae	<i>Acanthagrion</i> sp.	84	2.5	17	33	0	0	3	0	1	0	2	8	7	0	0	2	0	0
	<i>Dythemis</i> sp.	57	1.7	3	7	0	10	4	0	2	17	0	8	0	0	0	0	0	4
	<i>Nephepeltia</i> sp.	66	2.0	0	8	0	0	11	0	10	3	1	4	3	0	0	7	0	1
Libellulidae	<i>Planiplax</i> sp.	12	0.4	0	0	0	2	0	0	0	10	0	0	0	0	0	0	0	0
	<i>Sympetrum</i> sp.	71	2.1	0	1	0	3	5	0	8	10	1	6	6	0	21	8	0	0

