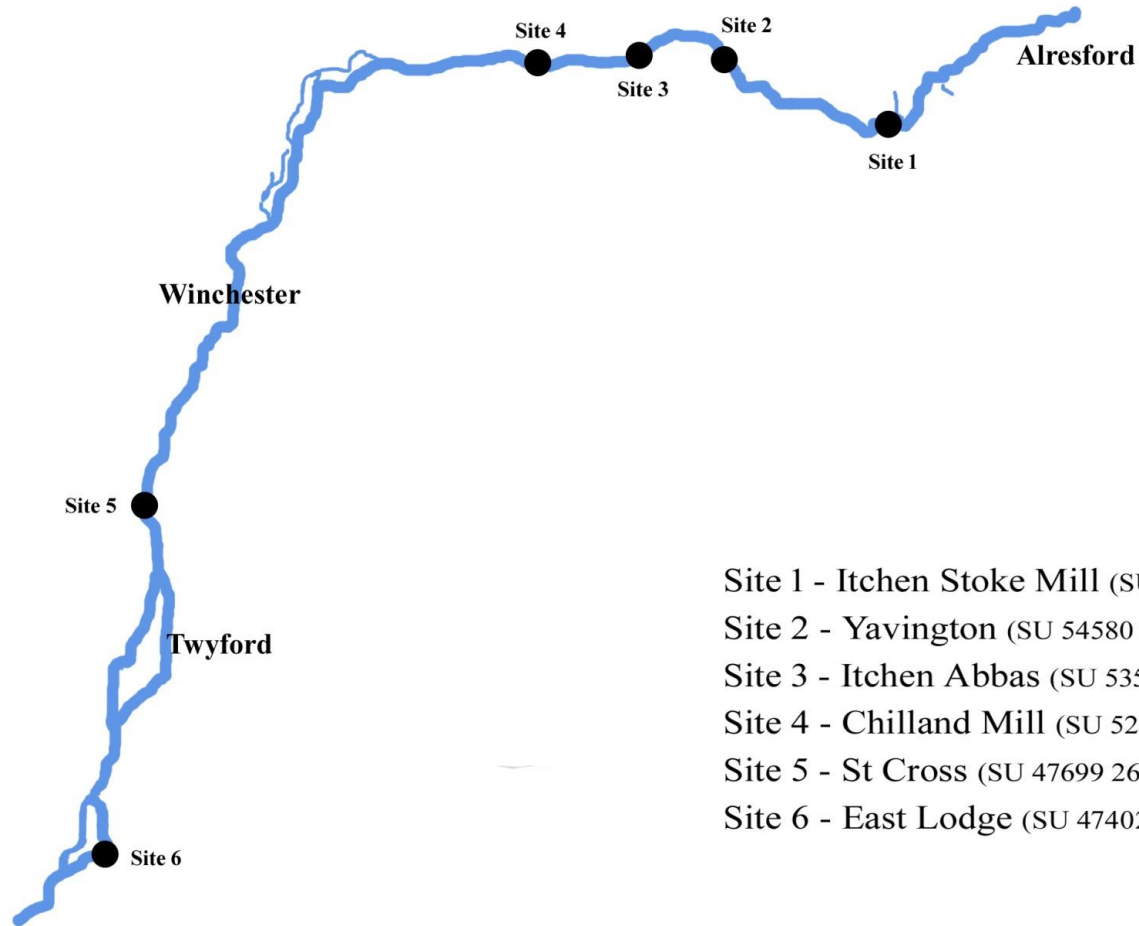


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Site 1 - Itchen Stoke Mill (SU 56632 31852)

Site 2 - Yavington (SU 54580 32606)

Site 3 - Itchen Abbas (SU 53526 32682)

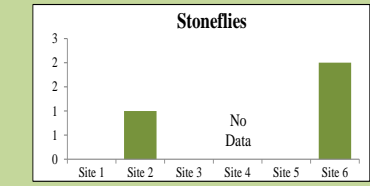
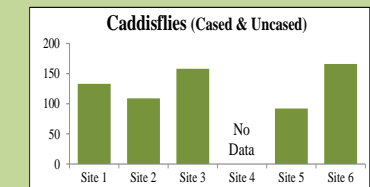
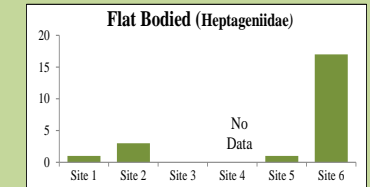
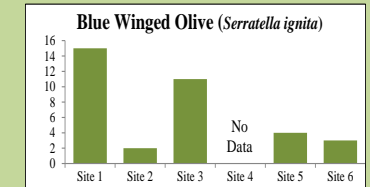
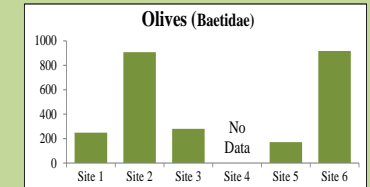
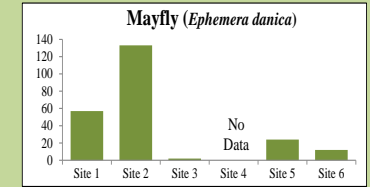
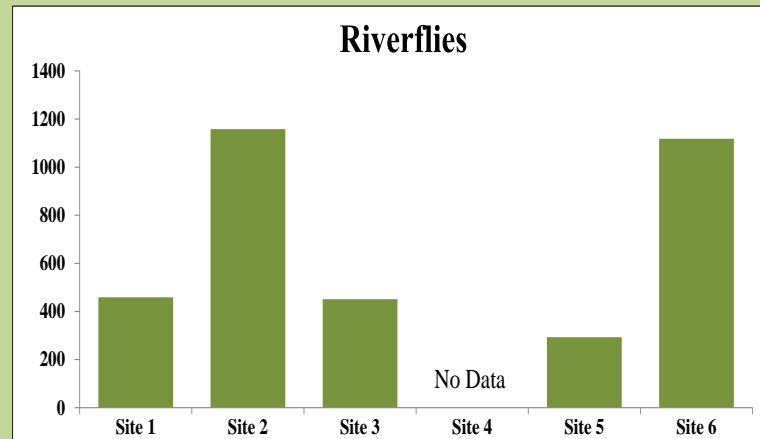
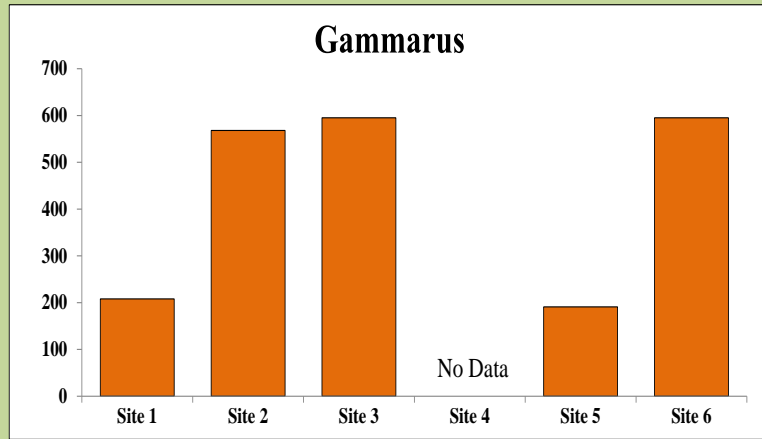
Site 4 - Chilland Mill (SU 52298 32527)

Site 5 - St Cross (SU 47699 26835)

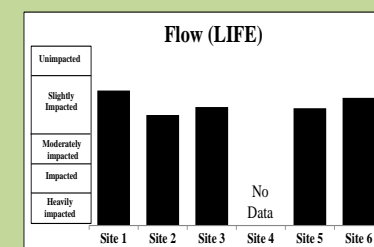
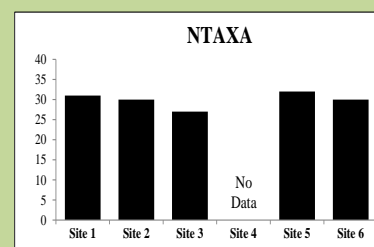
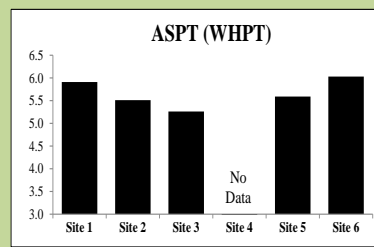
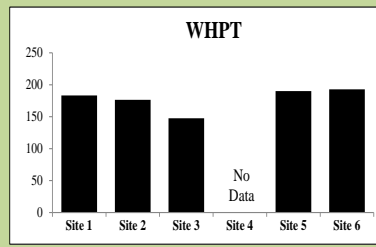
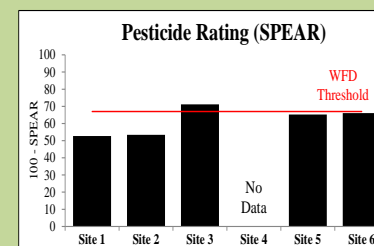
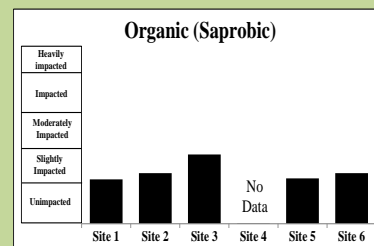
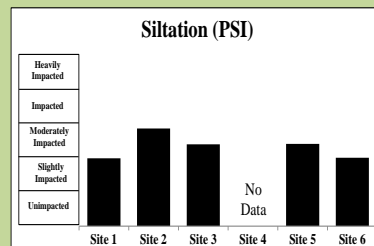
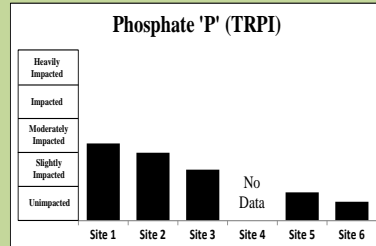
Site 6 - East Lodge (SU 47402 22571)

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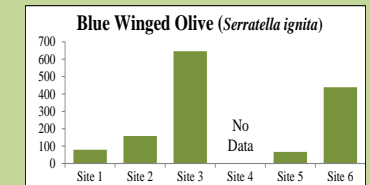
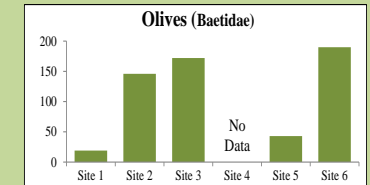
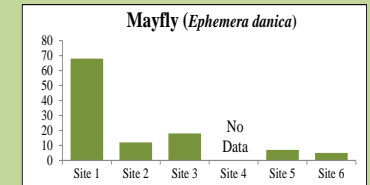
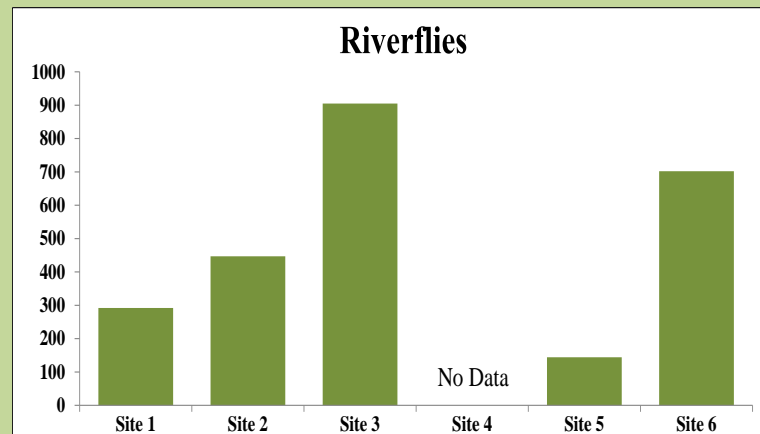
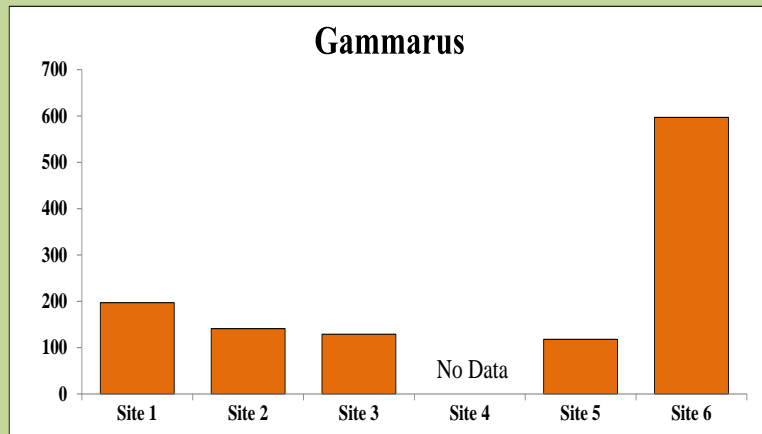


Biometrics

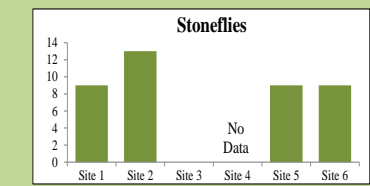
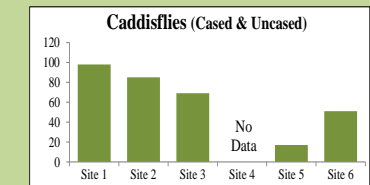
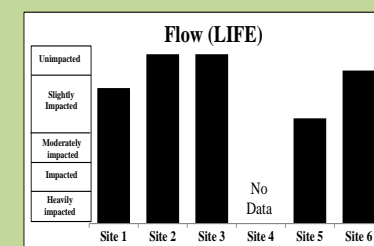
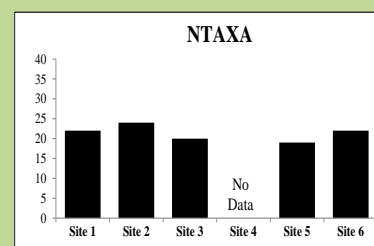
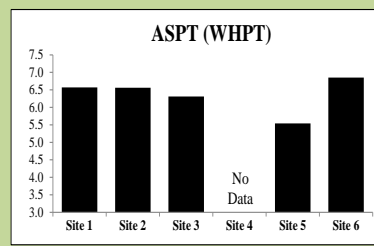
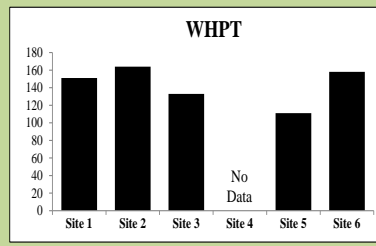
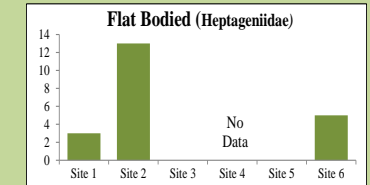
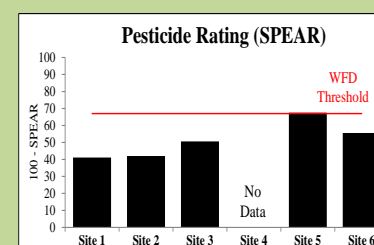
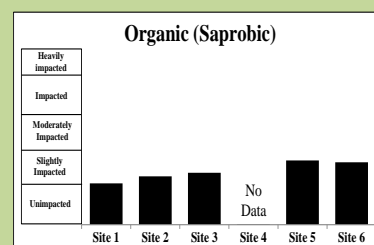
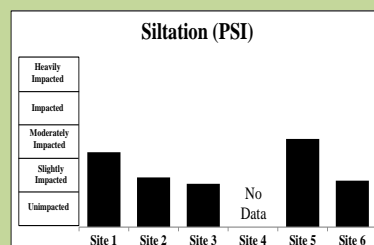
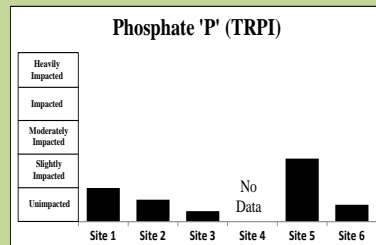


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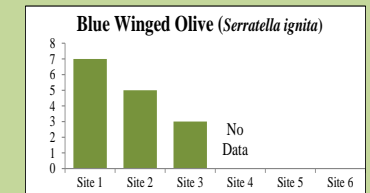
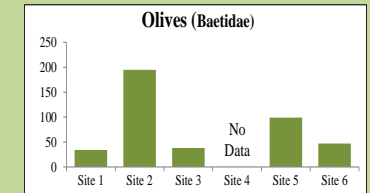
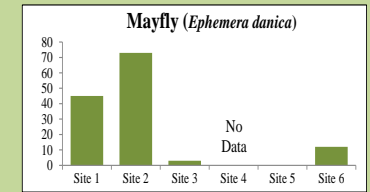
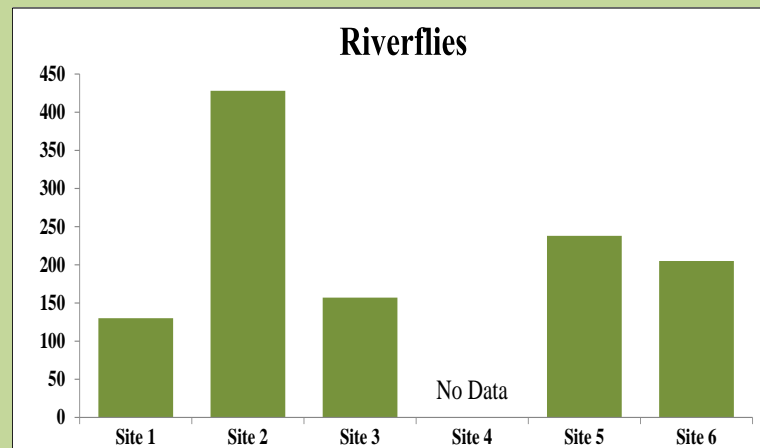
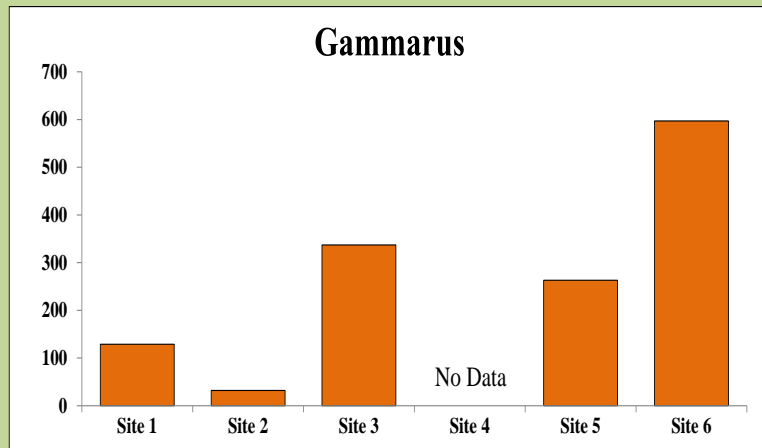


Biometrics

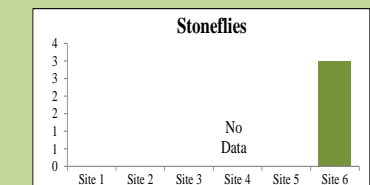
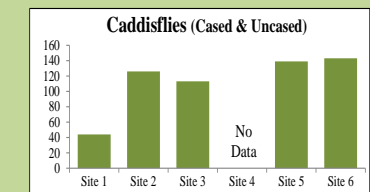
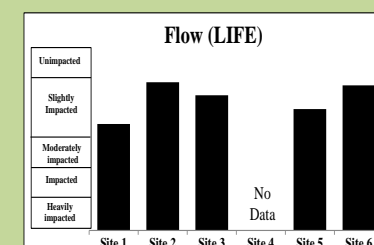
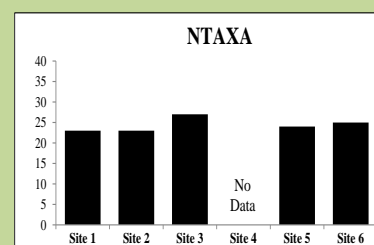
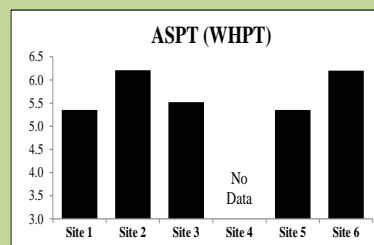
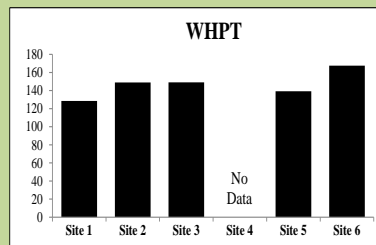
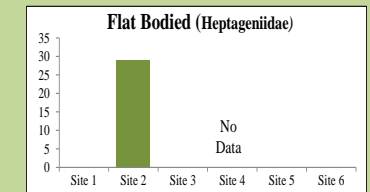
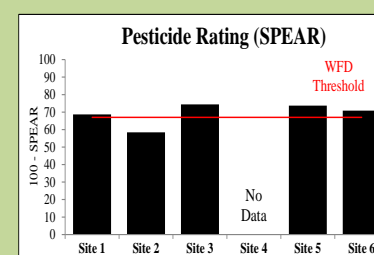
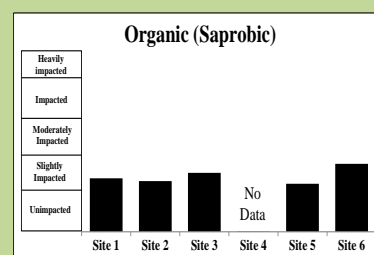
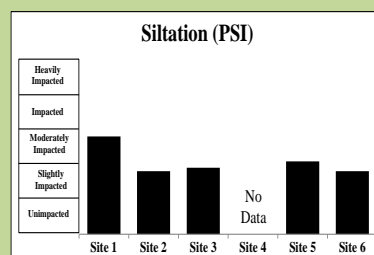
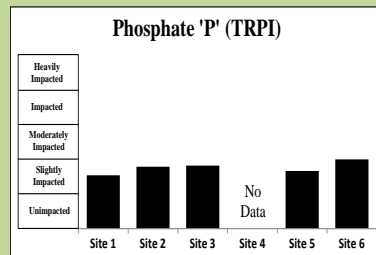


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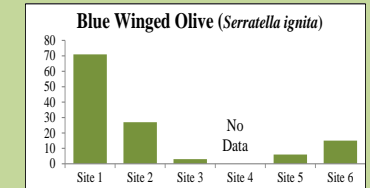
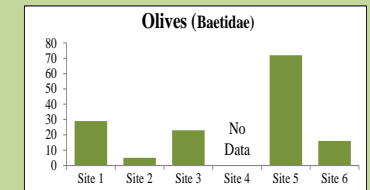
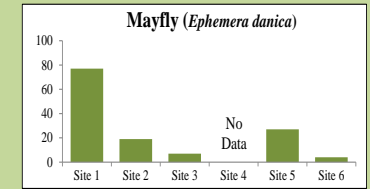
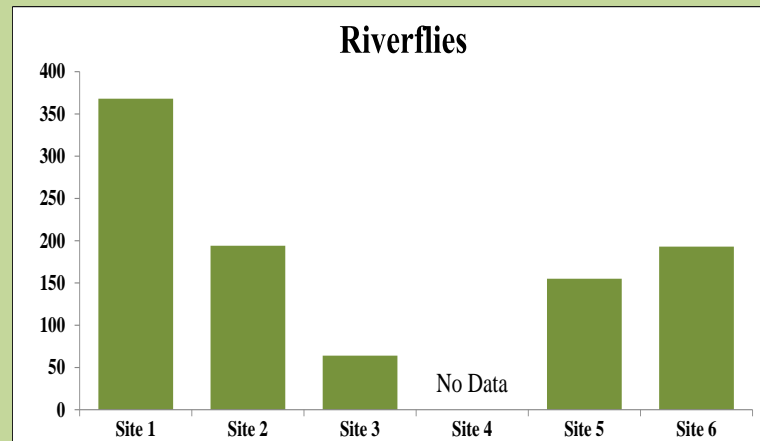
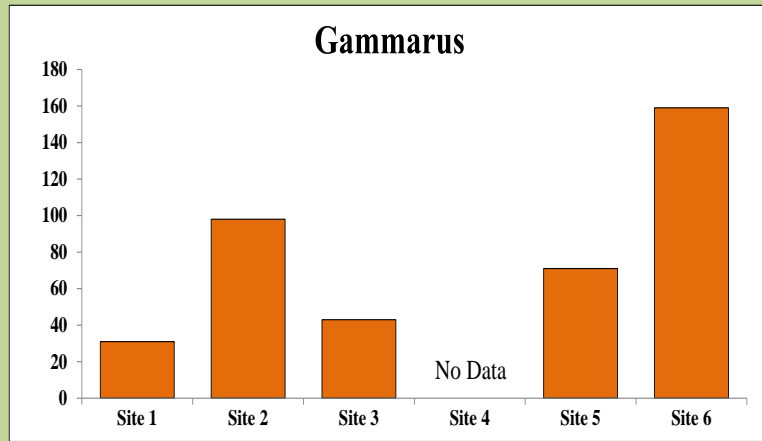


Biometrics

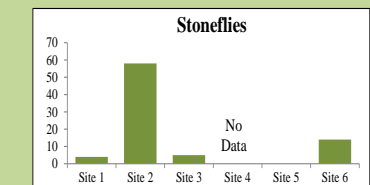
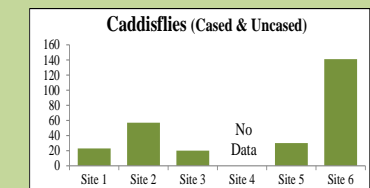
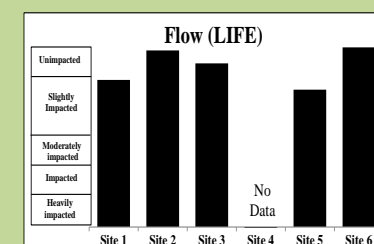
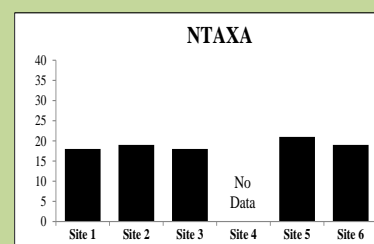
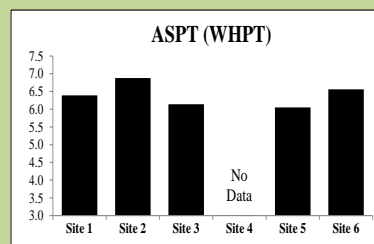
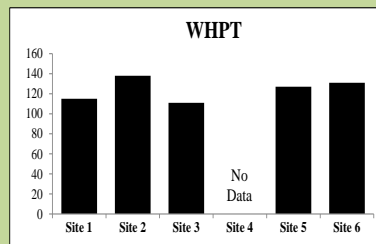
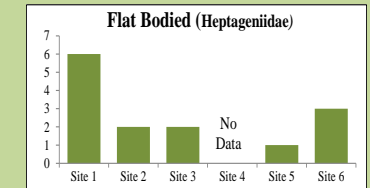
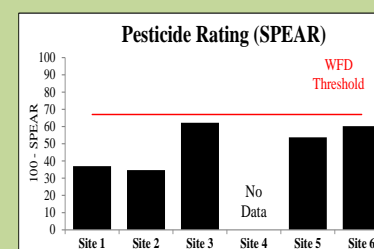
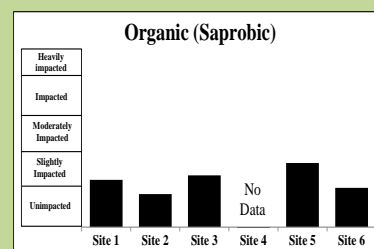
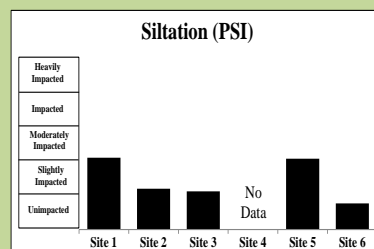
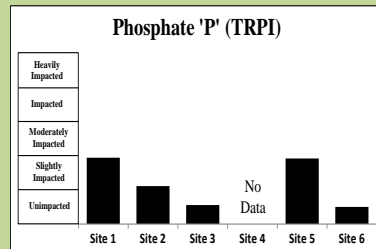


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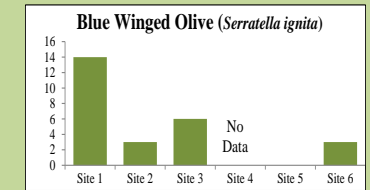
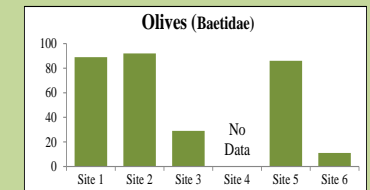
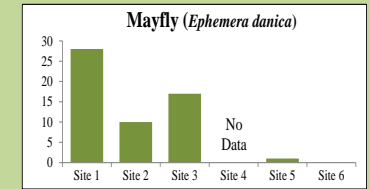
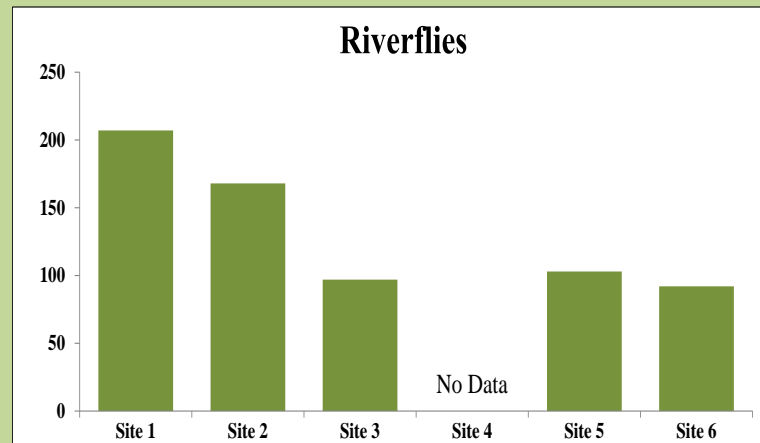
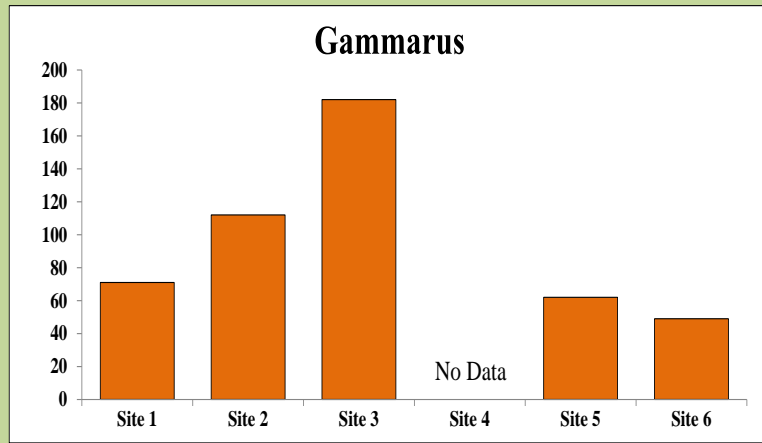


Biometrics

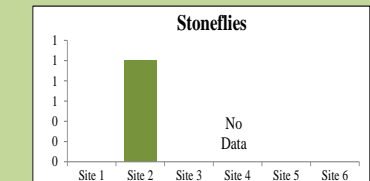
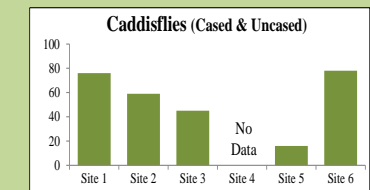
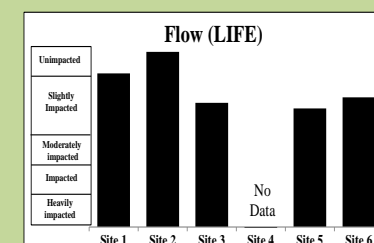
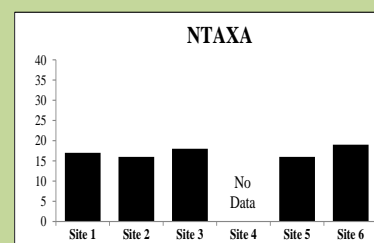
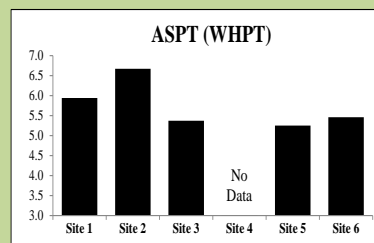
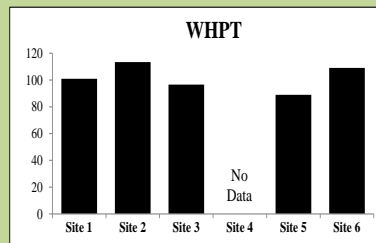
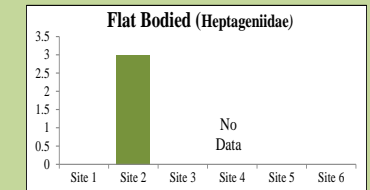
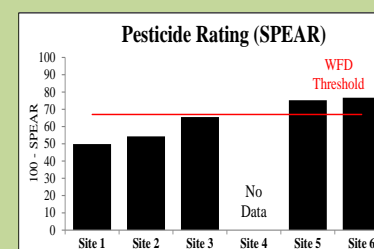
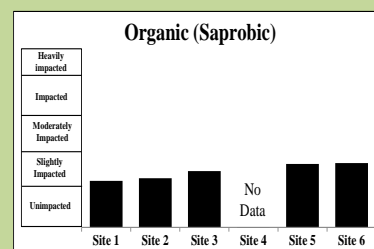
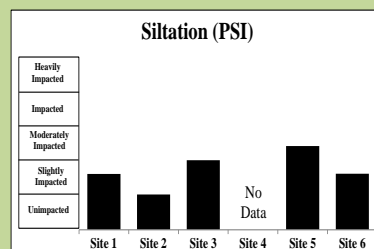
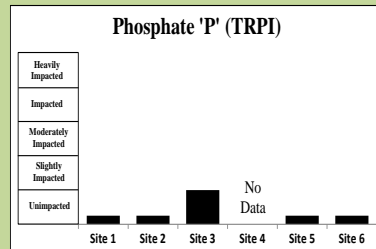


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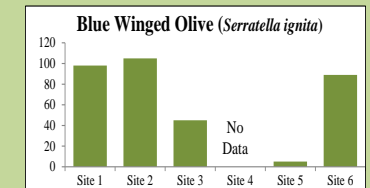
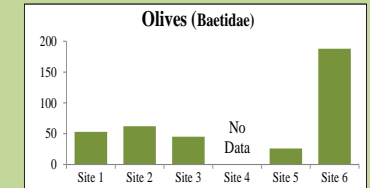
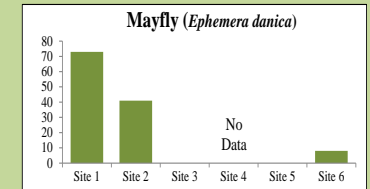
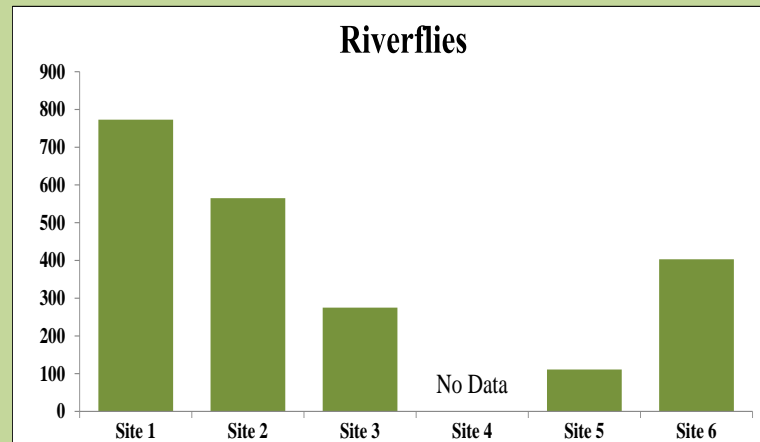
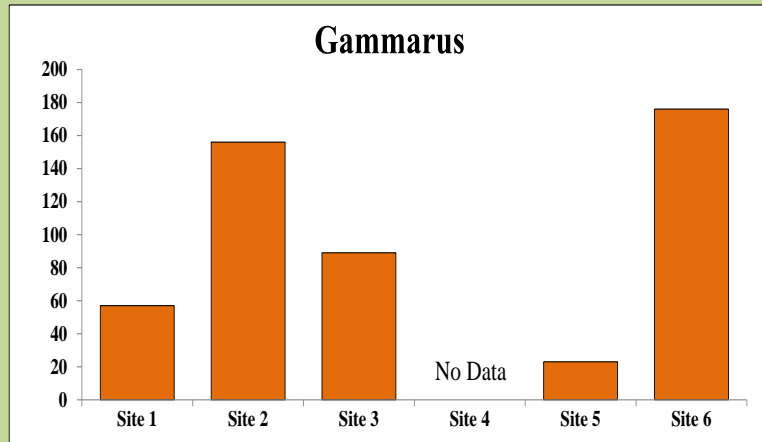


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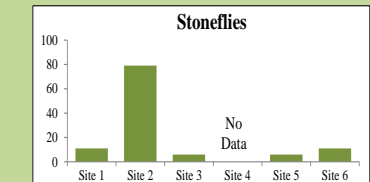
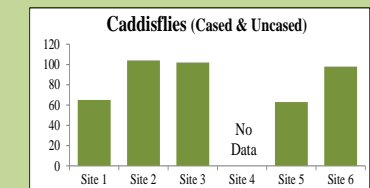
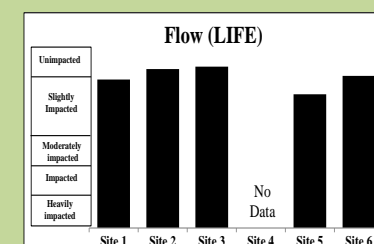
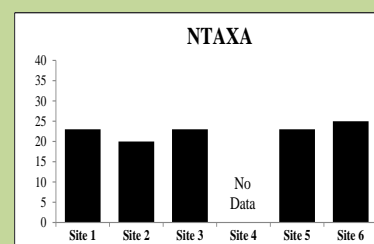
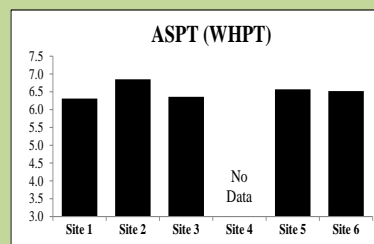
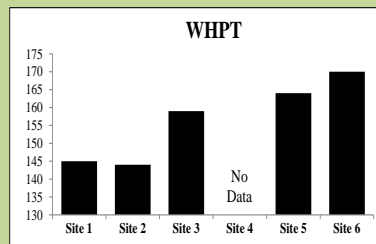
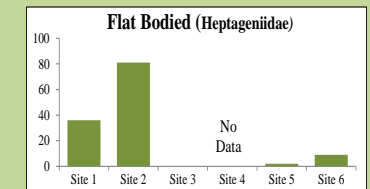
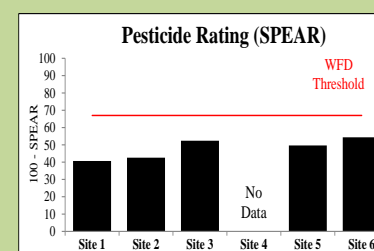
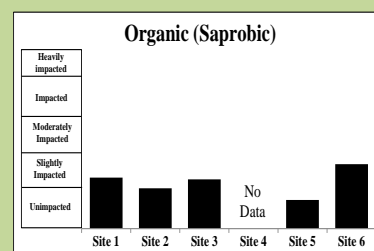
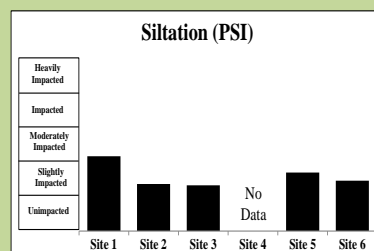
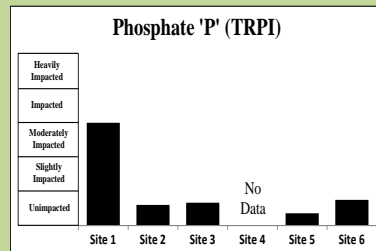


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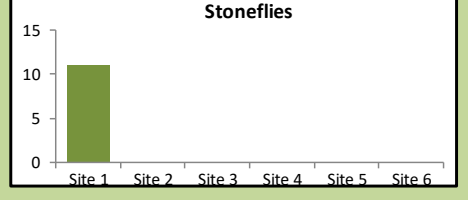
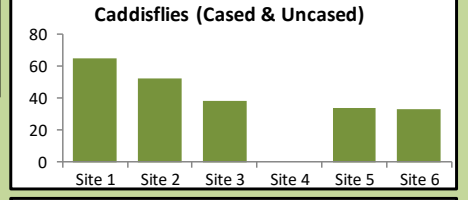
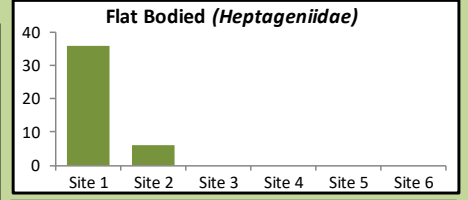
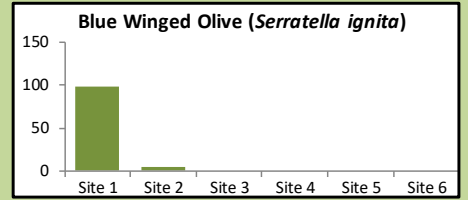
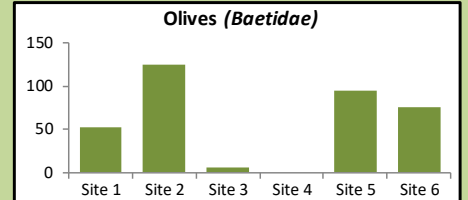
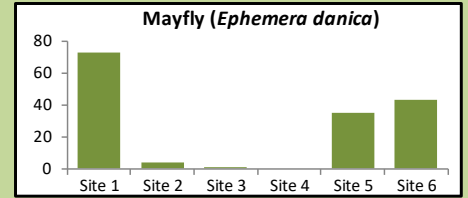
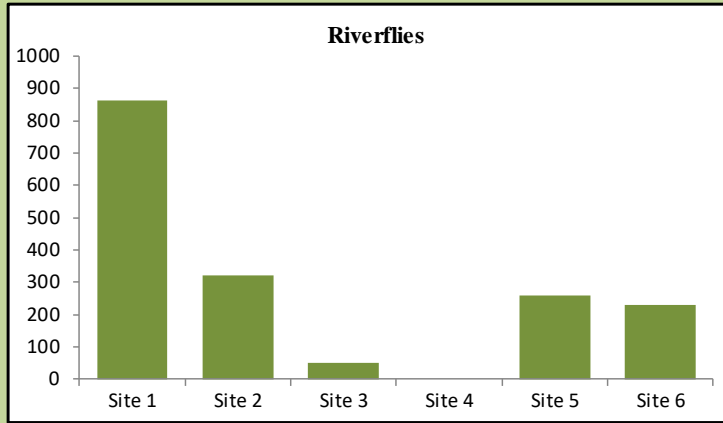
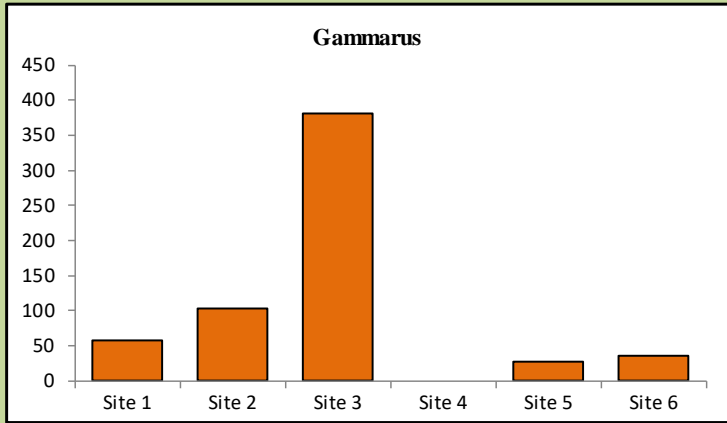


Biometrics

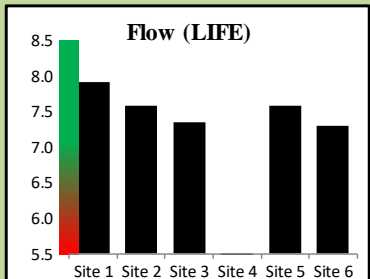
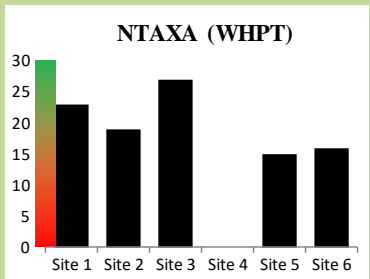
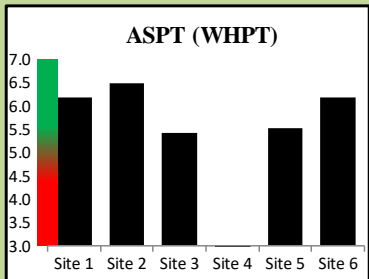
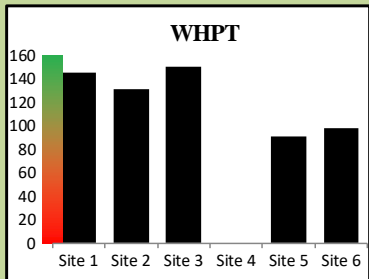
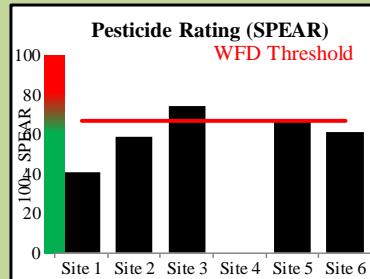
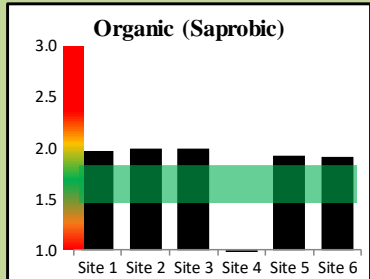
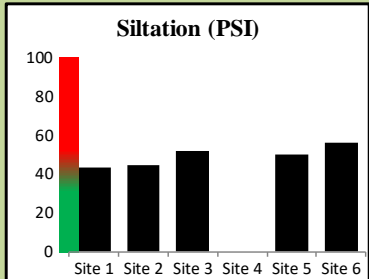
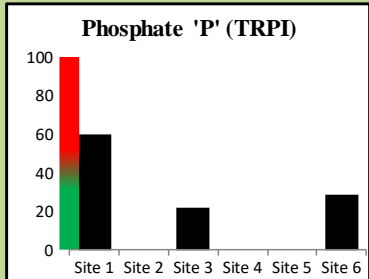


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River Itchen
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Biometrics

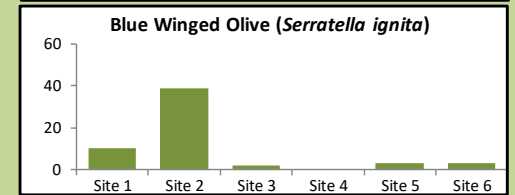
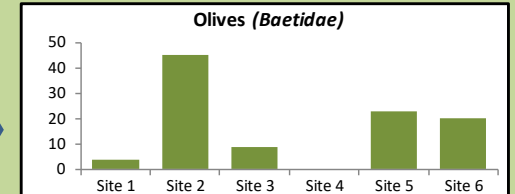
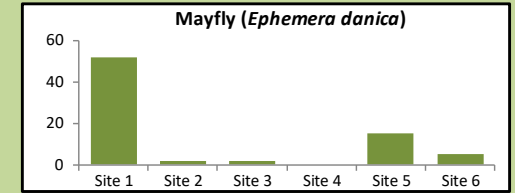
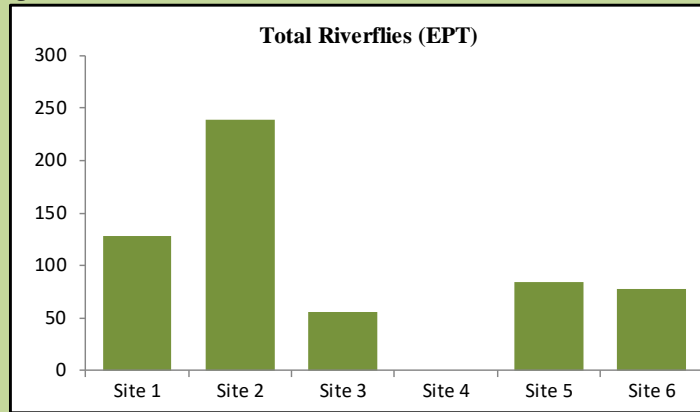
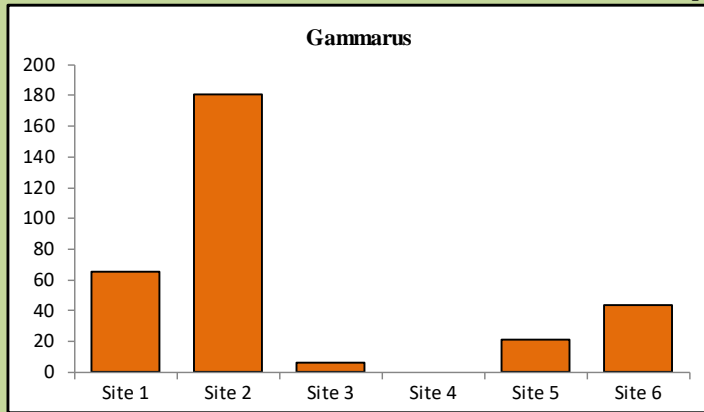


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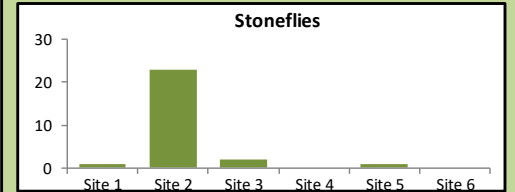
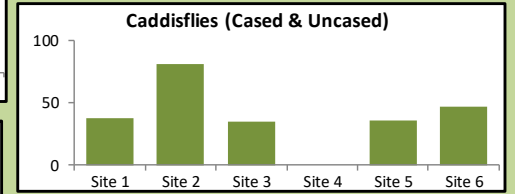
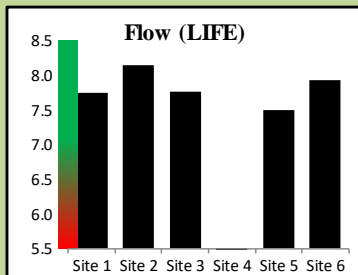
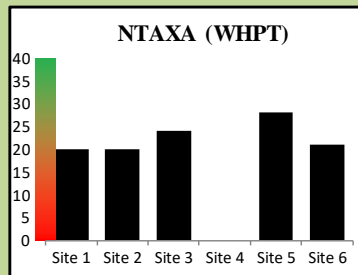
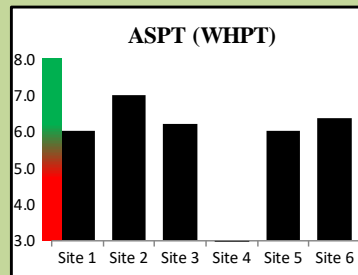
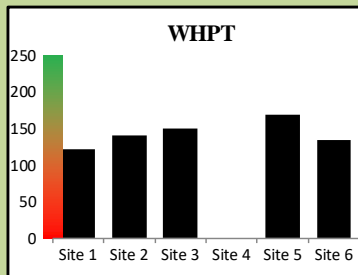
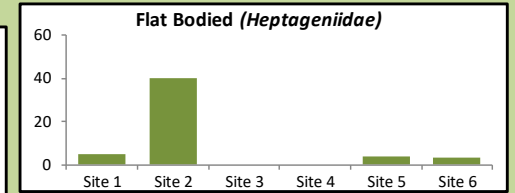
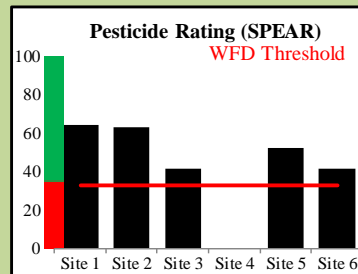
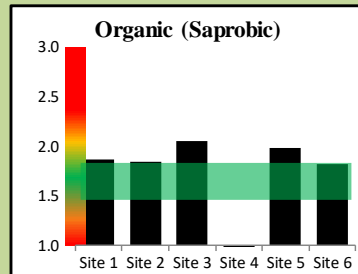
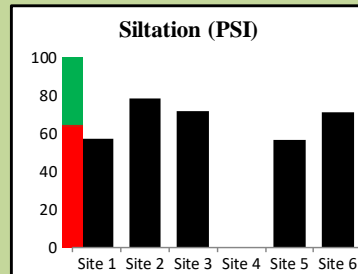
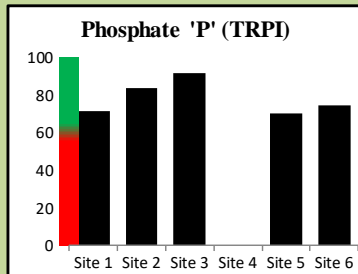
Test and Itchen Association

River Itchen

Spring 2023



Biometrics



Appendix 1

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Agapetus sp.	1					1
Athripsodes sp.			1			
Brachycentrus subnubilis						2
Chaetopteryx villosa			1		2	
Cheumatopsyche lepida						19
Hydropsyche pellucidula	19	8	2		11	51
Hydropsyche siltalai			121		9	53
Hydroptila sp.			2		5	
Ithytrichia sp.	8				1	
Limnephilus rhombicus		4	2			
Odontocerum albicorne	68	6			44	25
Oxyethira sp.	1					
Phryganea grandis		1				
Polycentropodidae	1					
Polycentropus flavomaculatus			2		1	
Potamophylax latipennis	4				1	
Potamophylax sp.	22	44				
Rhyacophila dorsalis			3		1	3
Rhyacophila septentrionis						1
Rhyacophilidae sp.			6		3	
Sericostoma personatum	8	45	4		14	7
Silo nigricornis	1		14			4
Ylodes conspersus		1				

Damselfly & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Calopteryx splendens		1				
Calopteryx virgo	3					

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ephemera danica	57	133	2		24	12
Baetis	249	908	280		171	918
Heptagenia Sulpurea	1	3			1	17
Serratella ignita	15	2	11		4	3
Caenis rivulorum	3	2			1	
Paraleptophlebia submarginata	1					

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Leuctra hippopus						2
Isoptera grammatica		1				

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Diving Beetle larva		2				
Elmidae Riffle Beetle					1	
Elmis aenea	4	160	42		134	109
Halipilus sp.	6	2	1			1
Hydroporus sp.		1	2			
Lesser Waterboatman		2				
Limnius volkmari	1	4	7		30	72
Oreodytes sanmarkii		2				
Platambus maculatus	7		13			
Riolus subviolaceus					2	1
Sigara sp.	5					
Whirligig Beetle					1	1



River Itchen - 2019

Autumn

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Tanytarsini	8	1				
Antocha sp.					2	
Ceratopogonidae		1				
Chironomidae	5		13		11	1
Dicranota sp.		1	1		1	
Empididae			1			
Limoniidae		1				
Orthocladiinae	9	1	24		6	1
Prodiamesiinae			1		1	
Simuliidae	24	5	60		9	71
Stratiomyidae			2			
Tanypodinae					1	

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Sialidae Alderfly larva					3	
Sialis lutaria		2				

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Gammarus pulex	208	568	595		191	595
Asellus aquaticus		1				

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	190	179	146		175	177
ASPT	6.13	5.97	5.41		5.47	5.90
WHPT	183	176	148		190	193
ASPT	5.91	5.51	5.26		5.59	6.03
Number of Taxa (BMWP)	31	30	27		32	30
Riverfly - species	18	13	15		18	17
Riverfly - numbers	467	1158	466		297	1121
CCI						
LIFE	7.71	7.31	7.44		7.42	7.59
PSI	60.32	42.86	52.11		51.85	60.00
SPEAR	47.32	46.57	28.82		34.76	33.93
TRPI	54.55	60.00	70.00		83.33	88.89
Saprobic	1.90	1.97	2.18		1.91	1.97

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ancylus fluviatilis	1				1	11
Anisus vortex	24	11	18		67	17
Bithynia tentaculata					6	12
Gyraulus albus	22				60	32
Lymnaea palustris						1
Lymnaea sp.		1	1			
Lymnaea stagnalis	2					30
Physa fontinalis	1		44		12	7
Pisidium sp.			1		2	1
Planorbis carinatus						7
Planorbis Planorbis					47	
Potamopyrgus antipodarum					81	8
Radix balthica	11		6		27	1
Valvata macrostomata					12	
Valvata piscinalis					1	43

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Erpobdella octoculata	4	10	51		2	
Glossiphonia complanata		4	10		4	5
Glossiphonia heteroclita						
Helobdella stagnalis			11		2	
Hemiclepsis marginata		1				
Oligochaeta	28	61	15		8	3
Piscicola geometrica	4				1	
Theromyzon tessellatum		1				

Appendix 2

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Anabolia nervosa	28		2		3	
Athripsodes albifrons			2			
Brachycentrus subnubilis						3
Chaetopteryx villosa	3	3				
Cheumatopsyche lepida						7
Halesus radiatus		2	1			1
Hydropsyche pellucidula						3
Hydropsyche siltalai	1	13	11			14
Hydrotilla	8		16			
Ithytrichia lamellaris		19	3			
Lepidostoma hirtum	6	10	6			6
Limnephilus lunatus	3	7			1	
Limnephilus rhombicus	7		3		2	1
Odontocerum albicorne	12	11	3		9	2
Polycentropus flavomaculatus			1			
Potamophylax cingulatus	4					
Potamophylax latipennis		9	8		1	1
Psychomyia pusilla			3			
Rhyacophila dorsalis		3	10			3
Rhyacophila septentrionis	1					1
Sericostoma personatum	25	8			1	9

Damselfly & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Calopteryx splendens	2				7	1

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ephemera danica	68	12	18		7	5
Baetis fuscatus			53			14
Baetis muticus			7			
Baetis rhodani	19	86	172		29	121
Batis scambus						69
Heptagenia sulphurea	3	13				5
Serratella ignita	79	158	646		67	439
Caenis rivulorum	16	14				
Rhithrogena		6			1	3

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Isoptera grammatica	6	6			3	3
Leuctra geniculata	3	7			6	6

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Elmis aenea			17		5	16
Limnius volckmari			5		2	23
Oreodytes sanmarkii			3			
Platambus maculatus	1		1			



**River Itchen - 2020
Spring**

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ceratopogonidae	4	1	4		3	
Chironominae					4	
Dicranota		2				
Orthocladiinae	65	31	89		58	
Pedicia		1				
Simulium	13	126				
Simulium ornatum					77	551
Tanyptodinae		5	5			
Tanytarsini	11	14	62		21	

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Gammarus pulex	197	141	129		118	597
Asellus aquaticus		9			35	

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	149	152	125		111	150
ASPT	6.77	6.33	6.25		5.84	6.81
WHPT	151	164	133		111	158
ASPT	6.57	6.56	6.31		5.54	6.85
Number of Taxa (BMWP)	22	24	20		19	22
Riverfly - species	18	20	16		11	20
Riverfly - numbers	292	447	1236		576	702
CCI	15.12	14.27	9.29		7.39	14.68
LIFE	7.74	8.30	8.30		7.24	8.03
PSI	55.77	70.69	74.42		47.92	72.58
SPEAR	58.87	57.97	49.37		32.49	44.44
TRPI	80.00	86.96	93.75		62.50	90.00
Saprobic	1.87	1.95	1.99		2.13	2.11

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ancylus fluviatilis			1		3	
Anisus vortex	8	4			4	2
Bithynia tentaculata					46	10
Gyrulus albus	5	1			3	5
Lymnaea palustris	1					
Lymnaea stagnalis	1					
Physa fontinalis		1				2
Pisidium					19	
Planorbis carinatus	5				5	4
Planorbis planorbis					1	
Potamopyrgus antipodarum						2
Radix balthica	2		1		5	
Valvata piscinalis					25	13

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Criodrilus lacuum		1				
Glossiphonia complanata		1	1			
Haplotaxis gordioides	9					1
Oligochaeta	39	8	13			
Polycelis felina		1				

Appendix 3

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Agapetus					6	
Brachycentrus subnubilis						1
Glyptotaelus pellucidus	4	6			3	
Hydropsyche pellucidula	11	27	18		54	58
Hydropsyche siltalai	5		59		26	34
Hydropsyche siltalai			5		32	9
Ithytrichia lamellaris		8				
Limnephilus lunatus	1	21	4		5	
Limnephilus rhombicus	2					
Mystacides azurea	1					
Odontocerum albicorne	3	20			4	11
Polycentropus flavomaculatus			6			3
Potamophylax latipennis	3					
Rhyacophila dorsalis	4	13	8		3	8
Sericostoma personatum	10	25	4		6	16
Silo nigricornis		6	9			3

Damselfly & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Calopteryx	1					
Calopteryx splendens					3	
Coenagrion					1	

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ephemera danica	45	73	3			12
Baetis						
Baetis rhodani	34	156	21		65	47
Baetis fuscatus/scambus		39	17		34	
Heptagenia sulphurea		29				
Serratella ignita	7	5	3			

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Leuctra						2
Isoperla grammatica						1

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Dytiscidae		4				
Elmis aenea	7	44	49		79	45
Haliphys	2					
Hydracarina					8	
Limnius volckmari		16				34
Orectochilus villosus		5	1			
Oreodytes sanmarkii	3					
Riolus			5		2	
Scirtes			1			



River Itchen - 2020

Autumn

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Antocha vitripennis			3		14	
Ceratopogonidae		4				
Dicranota						1
Limnophora						1
Orthocladinae	17		13		7	
Simulium	13		36		226	
Simulium ornatum group						703
Stratiomyidae	1					
Tanytopinae			7			
Tanytarsini	98		8			

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Sialis lutaria	3				1	1

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Gammarus pulex	129	32	337		263	597
Aesellus aquaticus	15	18	64			

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	134	138	141		121	151
ASPT	5.83	6.00	5.22		5.04	6.04
WHPT	129	149	149		139	168
ASPT	5.35	6.21	5.52		5.35	6.20
Number of Taxa (BMWP)	23	23	27		24	25
Riverfly - species	13	13	12		11	13
Riverfly - numbers	453	687	157		238	193
CCI	7.12	9.60	7.73		7.29	11.20
LIFE	7.21	7.88	7.67		7.45	7.83
PSI	43.86	63.79	61.82		58.18	63.79
SPEAR	31.35	41.59	25.61		26.31	29.16
TRPI	69.23	64.29	63.64		66.67	60.00
Saprobic	1.99	1.96	2.05		1.93	2.15

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ancylus fluviatilis	1	1	3		3	3
Anisus vortex	7	18	2		5	3
Bithynia tentaculata					6	5
Gyraulus albus	1				18	2
Lymnaea palustris	2				4	
Lymnaea stagnalis	4					
Physa fontinalis	4		8		7	
Planorbis carinatus						1
Potamopyrgus antipodarum					22	3
Radix balthica	2		11		4	1
Sphaerium						4
Valvata piscinalis			2		3	46

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Dendrocoelum lacteum		1				
Ergobdella octoculata	13	32	18		6	2
Glossiphonia complanata		5	5		7	12
Oligochaeta		41	7			
Piscicola geometra		6	2		1	
Theromyzon tessellatum			1			

Appendix 4

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Agapetus					2	10
Anabolia nervosa	3				4	
Cheumatopsyche lepida						3
Halesus radiatus		2			3	
Hydropsyche pellucidula	8	26	7		4	53
Hydropsyche siltalai			3		5	35
Hydropitila					5	25
Limnephilus lunatus						4
Limnephilus rhombicus		6			1	
Melampophylax mucoreus		1			1	
Odontocerum albicorne		7			1	
Potamophylax latipennis	12	13	9		4	6
Rhyacophila dorsalis		2	1			5

Damsels & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Calopteryx splendens	10	6			2	1

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ephemera danica	77	19	7		27	4
Baetis			23			
Baetis fuscatus/scambus	18				55	
Baetis muticus		5				
Baetis rhodani/atlanticus	11				17	16
Heptagenia sulphurea	6	2	2		1	3
Serratella ignita	71	27	3		6	15
Caenis rivulorum	158	26	4		19	

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Isonychia grammica	4	58	5			14

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Elmis aenea	1	21	17		18	89
Hydracarina			3			3
Limnius volckmari			4			32
Orectochilus villosus	2	3				



River Itchen - 2021 Spring

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Antocha vitripennis		3	15			6
Chironomidae					1	
Orthocladiinae		1	19			5
Simulium	3					
Simulium ornatum group			26		169	73
Tanytarsini			13		3	10

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Gammarus pulex	31	98	43		71	159
Ostracod	1					
Niphargus aquilex	1					

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	112	127	105		125	118
ASPT	6.22	6.68	5.83		5.95	6.21
WHPT	115	138	111		127	131
ASPT	6.39	6.88	6.14		6.05	6.56
Number of Taxa (BMWP)	18	19	18		21	19
Riverfly - species	11	15	11		17	14
Riverfly - numbers	387	272	77		159	204
CCI	9.47	11.70	8.44		9.79	8.25
LIFE	7.90	8.38	8.17		7.74	8.43
PSI	58.14	76.19	77.78		58.70	84.78
SPEAR	63.00	65.32	37.82		46.26	39.80
TRPI	61.11	77.78	88.89		61.54	90.00
Saprobic	1.93	1.77	1.98		2.12	1.84

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ancylus fluviatilis						1
Anisus vortex		9	3	3		6
Gyraulus albus		2				2
Pisidium	1					
Planorbis carinatus	1					1
Radix balthica			5			
Sphaerium corneum						3
Theodoxus fluviatilis						2
Valvata piscinalis			8			4

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ergobdella octoculata	7	6	9			4
Glossiphonia complanata						3
Oligochaeta	1					8
Piscicola geometra						

Appendix 5

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Chaetopteryx villosa	3	5	1		10	
Glyptotachius pellucidus		9	4			
Hydropsyche fulvipes						1
Hydropsyche pellucidula	38	10	15		3	41
Hydropsyche siltalai		6				9
Limnephilidae						14
Limnephilus lunatus	5		7			
Limnephilus rhombicus			2			
Odontocerum albicorne	18	4			1	2
Potamophylax latipennis	4	10	5			
Rhyacophila dorsalis	1		8		2	5
Rhyacophila septentrionis	1					
Sericostoma personatum	6	15	3			6

Damsels & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ephemera danica	28	10	17		1	
Baetis		92	27		86	10
Baetis fuscatus/scambus	59					
Baetis muticus			2			1
Baetis rhodani/atlanticus	30					
Heptagenia sulphurea		3				
Serratella ignita	14	3	6			3

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Leuctra hippopus		1				

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Elmis aenea		6	16		45	28
Haliplus					1	
Hydracarina	6		4		4	
Limnius volckmari		5	8		6	65
Noterus		1				
Oreodytes sanmarkii		2	6			
Riolus subviolaceus		1			11	



River Itchen - 2021

Autumn

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Antocha vitripennis		1	4			
Orthocladiinae	17		19		15	1
Simulium	7	4	21			
Simulium ornatum group			32		161	277
Tanytarsini						1

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Gammarus pulex	71	112	182		62	49
Asellus aquaticus			26			

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	96	106	96		81	96
ASPT	5.65	6.63	5.33		5.06	5.05
WHPT	101	113	97		89	109
ASPT	5.94	6.67	5.37		5.25	5.46
Number of Taxa (BMWP)	17	16	18		16	19
Riverfly - species	12	12	12		6	10
Riverfly - numbers	207	168	98		103	92
CCI	12.89	15.65	4.57		12.16	10.85
LIFE	8.00	8.35	7.52		7.43	7.61
PSI	67.50	79.49	59.52		51.28	67.39
SPEAR	50.18	45.72	34.51		24.75	23.28
TRPI	95.00	95.00	80.00		95.00	95.00
Saprobic	1.92	1.95	2.03		2.11	2.12

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ancylus fluviatilis	1					6
Anisus vortex	6		5		6	5
Bathymphalus contortus					2	
Bithynia tentaculata					10	6
Gyraulus albus	3				7	2
Lymnaea palustris					1	
Lymnaea stagnalis	2					
Physa fontinalis			3		3	
Planorbis						1
Planorbis carinatus					1	
Potamopyrgus antipodarum					5	3
Radix balthica	5	5				7
Valvata piscinalis					2	6

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Criodrilus lacuum		1				
Erpobdella octoculata	4		13			6
Glossiphonia complanata			1			4
Hebodela stagnalis			3			
Oligochaeta	5					7
Piscicola geometra	1					

Appendix 6

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Agapetus					11	
Anabolia nervosa	3	3			1	
Athripsodes cinereus						4
Chaetopteryx villosa		1				
Cheumatopsyche lepida						25
Halesus radiatus			5			2
Hydropsyche pellucidula	14	8	9		13	6
Hydropsyche siltalai		9			3	27
Hydropsyche			12		6	
Lepidostoma hirtum			9		1	2
Limnephilus lunatus			3		3	2
Limnephilus rhombicus		2			4	2
Odonocerum albicorne	13	19	5		5	1
Potamophylax latipennis	14	23	24		8	5
Rhyacophila dorsalis	5	3	8		3	3
Sericostoma personatum	16	36	11		5	16
Silo nigricornis			16			3

Damselfly & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Calopteryx splendens	10					2

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ephemera danica	73	41				8
Baetis		62	44			8
Baetis fuscatus/scambus	53				18	36
Baetis rhodani/atlanticus						152
Baetis vernus			1			
Heptagenia sulphurea	36	81			2	8
Rhithrogena						1
Serratella ignita	98	105	45		5	89
Caenis rivulorum	437	93	77		9	

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Isoperla grammatica	11	79	6		6	6
Leuctra geniculata						5

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Elmis aenea	8	26	69		8	14
Halplus fluviatilis	1					
Limnius volckmari		17	7		4	19
Oreochilus villosus	1	4	2		1	
Oreodytes sanmarkii	7					
Oulimnius tuberculatus		1				
Riolus subviolaceus		3			7	2
Sigara dorsalis						1



River Itchen - 2022
Spring

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Antocha vitripennis	3	11			4	
Atherix ibis					1	
Ceratopogonidae		4				
Orthocladiinae			4		8	62
Simulium					19	
Simulium ornatum group		10	73			362
Tanytarsini		25	26			16

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Gammarus pulex	57	156	89		23	176
Asellus aquaticus	10					

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	142	127	139		139	167
ASPT	6.17	6.35	6.04		6.04	6.68
WHPT	145	144	159		164	170
ASPT	6.31	6.85	6.36		6.57	6.52
Number of Taxa (BMWP)	23	20	23		23	25
Riverfly - species	12	15	16		18	21
Riverfly - numbers	773	565	289		111	403
CCI	9.57	14.84	9.17		14.26	13.79
LIFE	7.91	8.08	8.12		7.67	7.97
PSI	56.60	72.73	73.47		66.07	70.77
SPEAR	59.31	57.41	47.63		50.32	45.67
TRPI	40.00	88.00	86.67		92.86	85.00
Saprobic	1.97	1.85	1.95		1.72	2.12

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Anisus vortex	17	12			5	6
Bithynia tentaculata			5		7	12
Gyraulus albus	2				1	3
Gyraulus crista	1					
Lymnaea palustris		1				
Lymnaea stagnalis		1			1	
Physa fontinalis						1
Planorbis carinatus					2	5
Potamopyrgus antipodarum			7			1
Radix balthica			2		8	
Valvata piscinalis	9		6		3	4

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Erpobdella octoculata	15	3	12			
Haplotaxis gordioides						1
Helobdella stagnalis			3			
Oligochaeta	9					

Appendix 7

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Anabolia nervosa	3					
Chaetopteryx villosa		4	1			6
Glyptotaelius pellucidus		2			3	1
Hydropsyche pellucidula	14	12	13		12	6
Hydroptila					7	
Limnephilus decipiens					2	
Limnephilus rhombicus		5				
Mystacides azurea		3				5
Mystacides nigra		1				
Odontocerum albicorne	13	5	1		5	7
Oecetis testacea			1			
Oreodytes septentrionalis		1				
Phryganea grandis			1			
Polycentropus flavomaculatus			3			
Potamophylax latipennis	14	3	1			
Rhyacophila dorsalis	5		9			5
Sericostoma personatum	16	13	5		5	
Silo nigricornis		3	3			3

Damsels & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Calopteryx splendens	10					1

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ephemera danica	73	4	1		35	43
Baetis						
Baetis scambus/fuscatus	53	102	6		66	67
Baetis rhodani/atlancticus		22			29	9
Baetis muticus						
Heptagenia sulphurea	36	6				
Serratella ignita	98	5				
Caenis rivulorum	437					

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Isoperla grammatica	11					

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Dytiscidae		3				
Elmis aenea	8	27	25		23	
Haliplus		1				
Haliplus fluviatilis	1					
Limnius volckmari		5	1		9	32
Orectochilus villosus	1					
Oreodytes sanmarkii	7	1	6			
Riolus subviolaceus					1	



River Itchen
Autumn 2022

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Antocha vitripennis	3					
Dixa		1				
Hemerodromia			2			
Orthocladinae		12	13			
Simulium			3		136	59
Simulium ornatum group		17				

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Sialis lutaria			1			

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Gammarus pulex	57	104	381		27	35
Asellus aquaticus	10		17			
Ostracod					3	

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	142	123	146		83	99
ASPT	6.17	6.47	5.41		5.53	6.19
WHPT	145	131	150		91	97
WHPT ASPT	6.31	6.23	5.35		5.68	6.09
Number of Taxa (BMWP)	23	19	27		15	16
Riverfly - species	12	16	12	0	9	10
Riverfly - numbers	862	321	51	0	259	228
CCI	9.57	10.56	14.48		13.65	9.47
LIFE	7.91	7.59	7.34		7.59	7.30
PSI	56.60	55.17	48.08		50.00	44.19
SPEAR	59.31	41.04	25.45		31.88	38.86
TRPI	40	100	78		100	71
Saprobic	1.97	1.99	1.99		1.93	1.92

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Anisus vortex	17	49	26		8	10
Bithynia tentaculata		3			4	12
Gyraulus albus	2	2	3		6	15
Gyraulus crista	1					
Lymnaea stagnalis		2	1		7	2
Physa fontinalis			29		6	
Planorbis carinatus		2			1	13
Potamopyrgus antipodarum		32	1		3	
Radix balthica		3	9		6	8
Valvata piscinalis	9		5		4	21

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Erpobdella octoculata	15		6			
Glossiphonia complanata			5			
Haplotaxis gordioides			1			
Oligochaeta	9		4			
Piscicola geometra			1			
Theromyzon tessulatum			2			

*No data available for site 4

Appendix 8



River Itchen
Spring 2023

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Agapetus		3				
Anabolia nervosa	8				3	
Chaetopteryx villosa		5			2	
Cheumatopsyche lepida						5
Halesus radiatus	1				3	3
Hydropsyche pellucidula	2	12	4		3	13
Hydropsyche siltalai		5	1		1	3
Hydroptila	1		3			1
Ithytrichia lamellaris		1	1			1
Lepidostoma hirtum			2			1
Limnephilus decipiens		1			1	
Limnephilus lunatus	1	3	1		4	
Limnephilus rhombicus	1					
Mystacides azurea					1	1
Odontocerum albicorne	4	16	2		6	6
Potamophylax cingulatus	8					7
Potamophylax latipennis	3	29	5		5	
Rhyacophila dorsalis		3	8		1	
Rhyacophila septentrionis			2			
Sericostoma personatum	9	3	6		5	6
Ylodes conspersus					1	

Damselfly & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Calopteryx splendens	1	1			3	1
Pyrrhosoma					1	

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ephemera danica	52	2	2		15	5
Baetis						
Baetis fuscatus/scambus	3	26			18	16
Baetis rhodani/atlanticus		12	9		5	3
Baetis muticus	1	7				
Baetis niger						1
Heptagenia sulphurea	5	34			3	3
Rhithrogena		6			1	
Serratella ignita	10	39	2		3	3
Caenis rivulorum	18	9	6		1	
Paraleptophlebia submarginata					1	

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Isoperla grammatica	1	23	2		1	

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Brychius elevatus	1					
Elmis aenea		9	4		3	11
Hydracarina			1			
Limnius volckmari		7	1		4	24
Oreochilus villosus			2		1	
Oreodytes sanmarkii	3					

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Antocha		3	4		3	
Ceratomyzidae	1					
Dicranota					1	
Hemerodromia			1			
Orthocladiinae	9		7			
Simulium			16			143
Simulium ornatum group					25	
Tanypodinae			3			
Tanytarsini			19		3	

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Gammarus pulex	65	181	6		21	44
Asellus aquaticus					1	

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	124	127	142		173	137
ASPT	6.53	6.68	6.17		6.18	6.52
WHPT	121	140	149		169	134
WHPT ASPT	6.04	7.00	6.21		6.03	6.38
Number of Taxa (WHPT)	20	20	24		28	21
Riverfly - species	17	20	16	0	22	17
Riverfly - numbers	128	239	56	0	84	78
CCI	10.43	10.83	14.84		14.21	9.80
LIFE	7.75	8.15	7.77		7.50	7.93
PSI	57.14	78.43	71.79		56.67	71.11
SPEAR	64.12	63.35	41.79		52.14	41.48
TRPI	71	84	92		71	75
Saprobic	1.87	1.84	2.06		1.98	1.82

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Ancylus fluviatilis			1			3
Anisus vortex	4	3	4		11	3
Bithynia tentaculata					7	3
Gyraulus albus			1			
Lymnaea palustris		1				
Lymnaea stagnalis	2				1	
Planorbis					6	
Radix balthica			1			2
Valvata piscinalis					1	1

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Erpobdella octoculata	5		14		1	
Glossiphonia complanata					1	2
Helobdella stagnalis			1			
Oligochaeta		5				