

Mountains Restoration Trust Spring 2007
Species abundance values

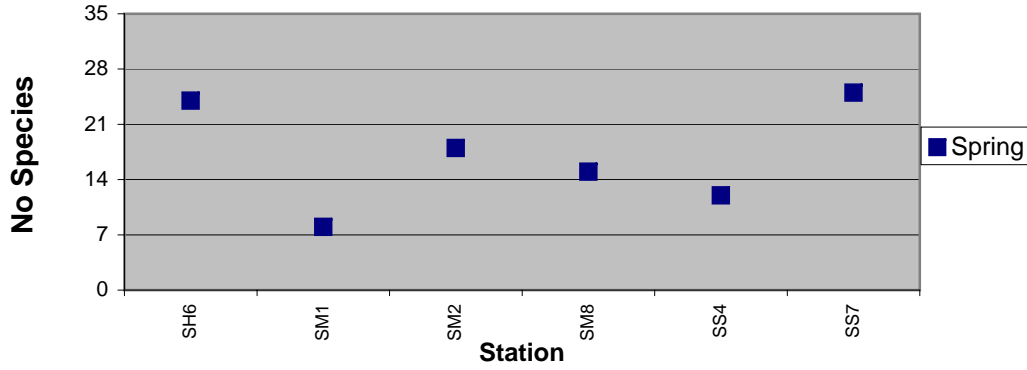
Identified Taxa	Tol Val (TV)	Func Feed Grp	SH6	SM1	SM2	SM8	SS4	SS7
Insecta Taxa								
Ephemeroptera								
<i>Baetis sp</i>	5	cg	1	51	10		110	
<i>Caenis sp</i>	7	cg	9					
<i>Fallceon quilleri</i>	4	cg	9				11	4
Odonata								
<i>Argia sp</i>	7	p	28		2	16	1	34
<i>Libellulidae</i>	9	p				1		
Plecoptera								
<i>Malenka sp</i>	2	sh						10
Hemiptera								
<i>Abedus sp</i>	8	p						1
Trichoptera								
<i>Gumaga sp</i>	3	sh	7					
<i>Hydropsyche sp</i>	4	cf	20					49
<i>Hydroptila sp</i>	6	sc		1	7		16	2
<i>Marilia flexuosa</i>	0	sh	1					
<i>Micrasema sp</i>	1	mh						26
<i>Ochrotrichia sp</i>	4	ph	6					
<i>Oecetis sp</i>	8	p						7
<i>Tinodes sp</i>	2	sc	2					
Coleoptera								
<i>Hydrochara sp</i>	5	p	2					
<i>Peltodytes sp</i>	5	mh	1		9			1
Diptera								
<i>Atrichopogon sp</i>	6	cg			1	1		2
<i>Bezzia/Palpomyia sp</i>	6	p	4		12			7
<i>Caloparyphus/Euparyphus sp</i>	8	cg			4			
<i>Chironomidae</i>	6	cg	118	12	53	104	27	137
<i>Dasyhelea sp</i>	6	cg	2		5			1
<i>Limonia sp</i>	6	sh				1		2
<i>Muscidae</i>	6	p						1
<i>Neoplasta sp</i>	6	p						1
<i>Pericoma/Telmatoscopus sp</i>	4	cg	1					
<i>Sciomyzidae</i>	6	p				1		
<i>Simulium sp</i>	6	cf	9	117	10	4	85	2
<i>Tipula sp</i>	4	om	1		2			3
Non-Insecta Taxa								
Nematoda								
	5	p	5		1	7	4	
Oligochaeta								
	5	cg	11	2	21	34	18	18
Ostracoda								
	8	cg	235	1	323	35	171	127
Amphipoda								
<i>Hyalella sp</i>	8	cg		278				
Basommatophora								
<i>Gyraulus sp</i>	8	sc				1		
<i>Physa/Physella sp</i>	8	sc	25		13	20	8	13
Hoplonemertea								
<i>Prostoma sp</i>	8	p	1		2	12		
Hydridae								
<i>Hydra sp</i>	5	p				3		
Neotaenioglossa								
<i>Fluminicola sp</i>	5	sc					7	1
Tricladida								
<i>Planariidae</i>	4	p	10	39	25	266	50	41
Trombidiformes								
<i>Sperchon sp</i>	8	p	1		1			11
Veneroida								
<i>Sphaeriidae</i>	8	cf						1
TOTAL			509	501	501	506	508	502

Mountains Restoration Trust 2007 Spring

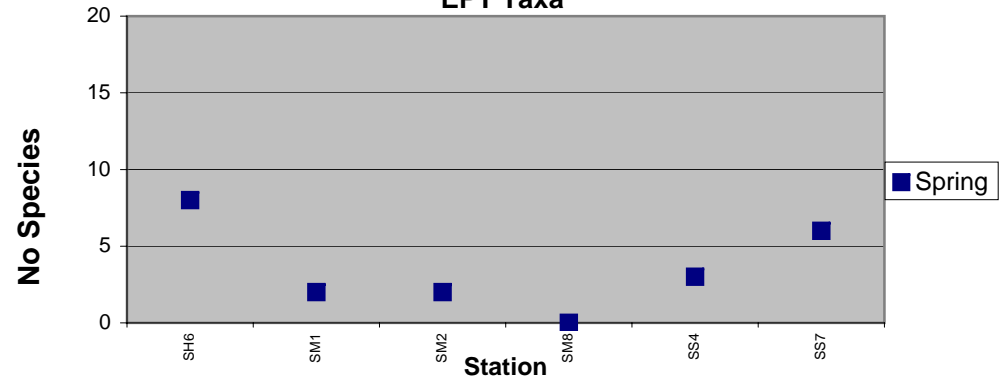
SH6			SM1			SM2		
Species	% of Total	Cumulative %	Species	% of Total	Cumulative %	Species	% of Total	Cumulative %
Ostracoda	46.2	46.2	Hyalella sp	55.5	55.5	Ostracoda	64.5	64.5
Chironomidae	23.2	69.4	Simulium sp	23.4	78.9	Chironomidae	10.6	75.1
Argia sp	5.5	74.9	Baetis sp	10.2	89.1	Planariidae	5	80.1
Physa/Physella sp	4.9	79.8	Planariidae	7.8	96.9	Oligochaeta	4.2	84.3
Hydropsyche sp	3.9	83.7	Chironomidae	2.4	99.3	Physa/Physella sp	2.6	86.9
Oligochaeta	2.2	85.9	Oligochaeta	0.4	99.7	Bezzia/Palpomyia sp	2.4	89.3
Planariidae	2	87.9	Hydroptila sp	0.2	99.9	Baetis sp	2	91.3
Caenis sp	1.8	89.7	Ostracoda	0.2	100	Simulium sp	2	93.3
Fallceon quilleri	1.8	91.5				Peltodytes sp	1.8	95.1
Simulium sp	1.8	93.3				Hydroptila sp	1.4	96.5
Gumaga sp	1.4	94.7				Dasyhelea sp	1	97.5
Ochrotrichia sp	1.2	95.9				Caloparyphus/Eupary	0.8	98.3
Nematoda	1	96.9				Argia sp	0.4	98.7
Bezzia/Palpomyia sp	0.8	97.7				Prostoma sp	0.4	99.1
Dasyhelea sp	0.4	98.1				Tipula sp	0.4	99.5
Hydrochara sp	0.4	98.5				Atrichopogon sp	0.2	99.7
Tinodes sp	0.4	98.9				Nematoda	0.2	99.9
Baetis sp	0.2	99.1				Sperchon sp	0.2	100
Marilia flexuosa	0.2	99.3						
Peltodytes sp	0.2	99.5						
Pericoma/Telmatosco	0.2	99.7						
Prostoma sp	0.2	99.9						
Sperchon sp	0.2	100						
Tipula sp	0.2	100						

SM8			SS4			SS7		
Species	% of Total	Cumulative %	Species	% of Total	Cumulative %	Species	% of Total	Cumulative %
Planariidae	52.6	52.6	Ostracoda	33.7	33.7	Chironomidae	27.3	27.3
Chironomidae	20.6	73.2	Baetis sp	21.7	55.4	Ostracoda	25.3	52.6
Ostracoda	6.9	80.1	Simulium sp	16.7	72.1	Hydropsyche sp	9.8	62.4
Oligochaeta	6.7	86.8	Planariidae	9.8	81.9	Planariidae	8.2	70.6
Physa/Physella sp	4	90.8	Chironomidae	5.3	87.2	Argia sp	6.8	77.4
Argia sp	3.2	94	Oligochaeta	3.5	90.7	Micrasema sp	5.2	82.6
Prostoma sp	2.4	96.4	Hydroptila sp	3.1	93.8	Oligochaeta	3.6	86.2
Nematoda	1.4	97.8	Fallceon quilleri	2.2	96	Physa/Physella sp	2.6	88.8
Simulium sp	0.8	98.6	Physa/Physella sp	1.6	97.6	Sperchon sp	2.2	91
Hydra sp	0.6	99.2	Fluminicola sp	1.4	99	Malenka sp	2	93
Atrichopogon sp	0.2	99.4	Nematoda	0.8	99.8	Bezzia/Palpomyia sp	1.4	94.4
Gyraulus sp	0.2	99.6	Argia sp	0.2	100	Oecetis sp	1.4	95.8
Libellulidae	0.2	99.8				Fallceon quilleri	0.8	96.6
Limonia sp	0.2	100				Tipula sp	0.6	97.2
Sciomyzidae	0.2	100				Atrichopogon sp	0.4	97.6
						Hydroptila sp	0.4	98
						Limonia sp	0.4	98.4
						Simulium sp	0.4	98.8
						Abedus sp	0.2	99
						Dasyhelea sp	0.2	99.2
						Fluminicola sp	0.2	99.4
						Muscidae	0.2	99.6
						Neoplasta sp	0.2	99.8
						Peltodytes sp	0.2	100
						Sphaeriidae	0.2	100

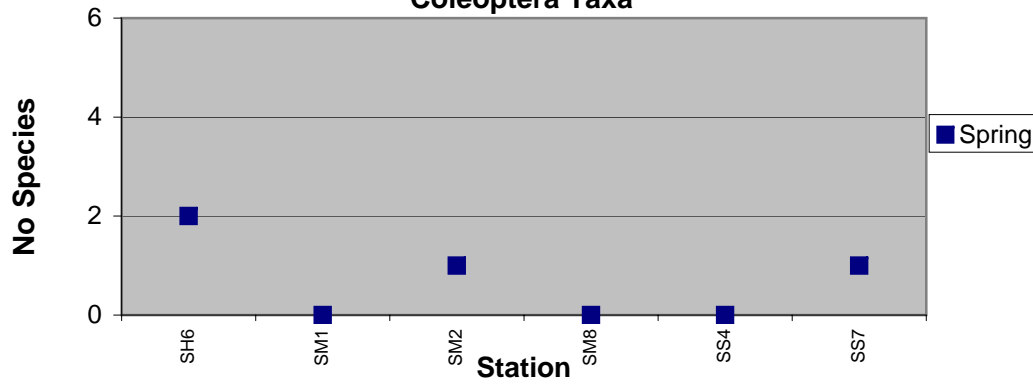
Taxonomic Richness



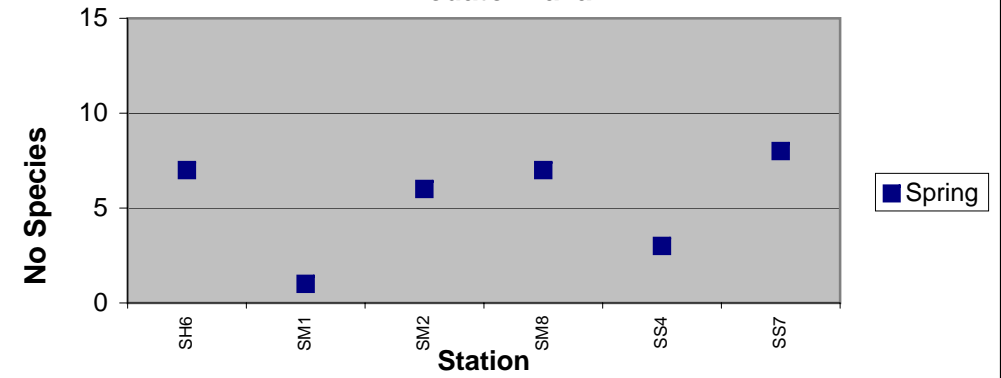
EPT Taxa

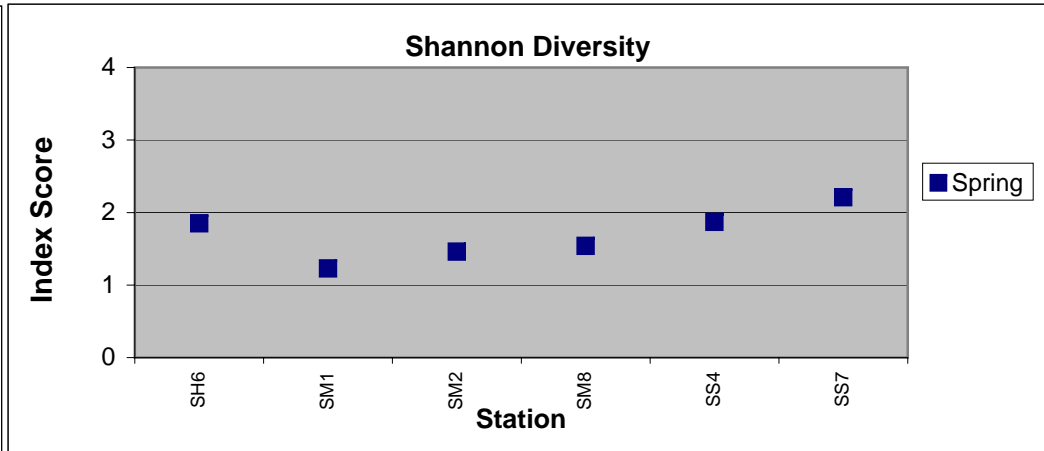
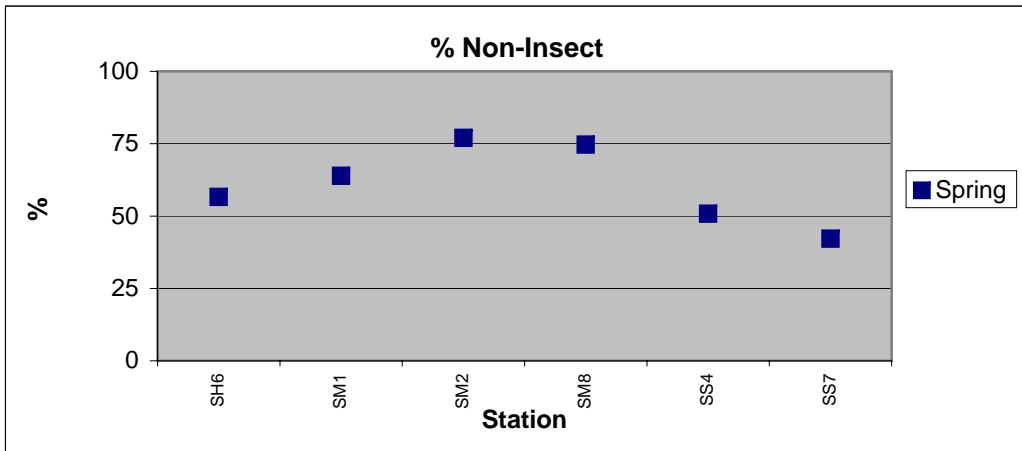
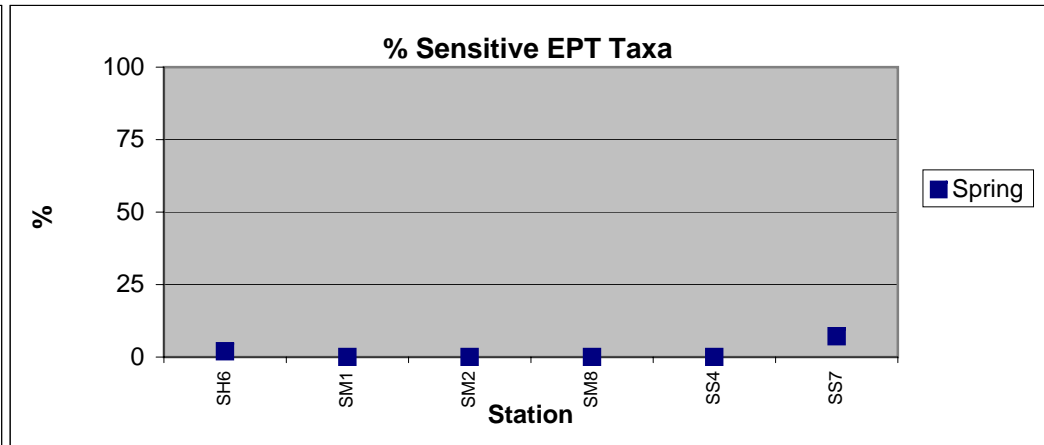
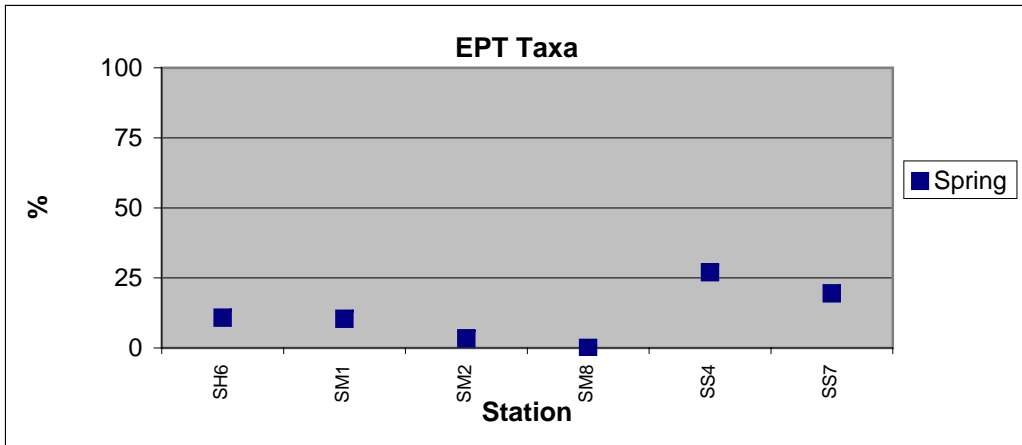


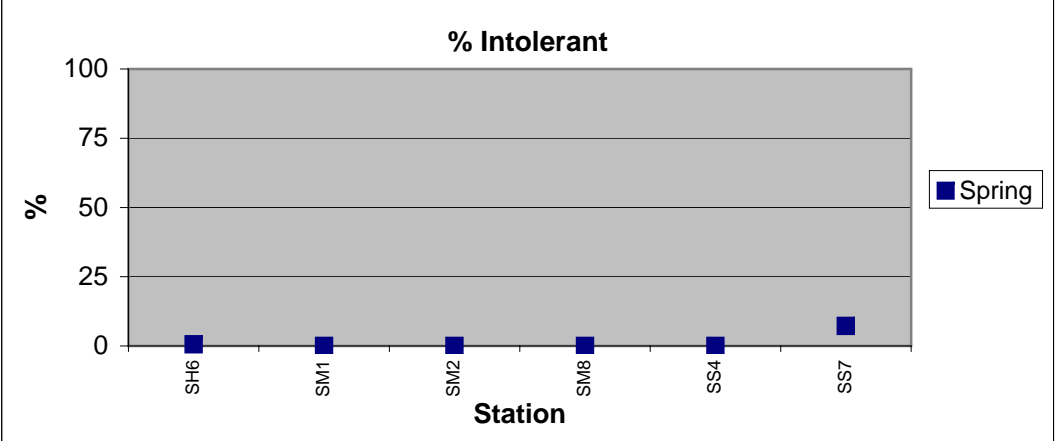
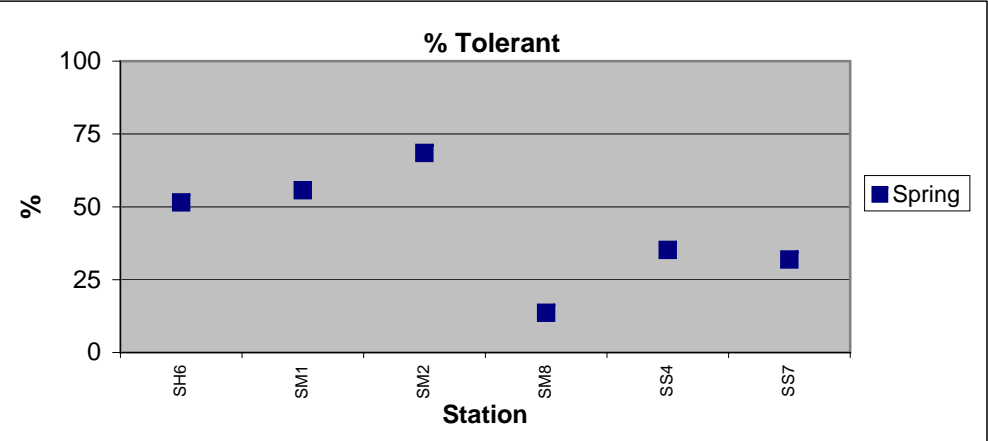
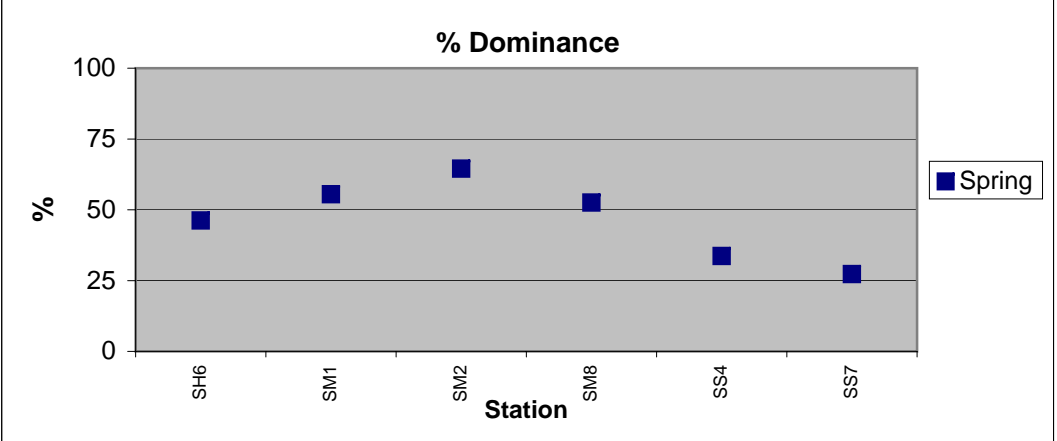
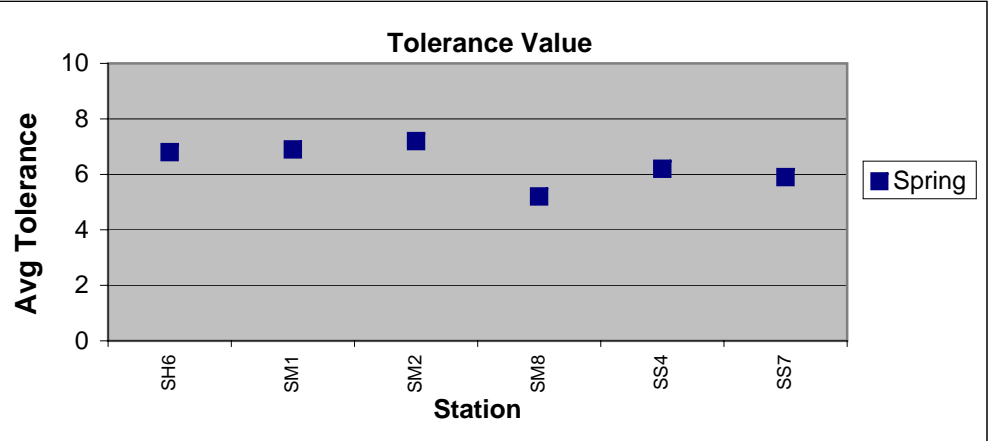
Coleoptera Taxa

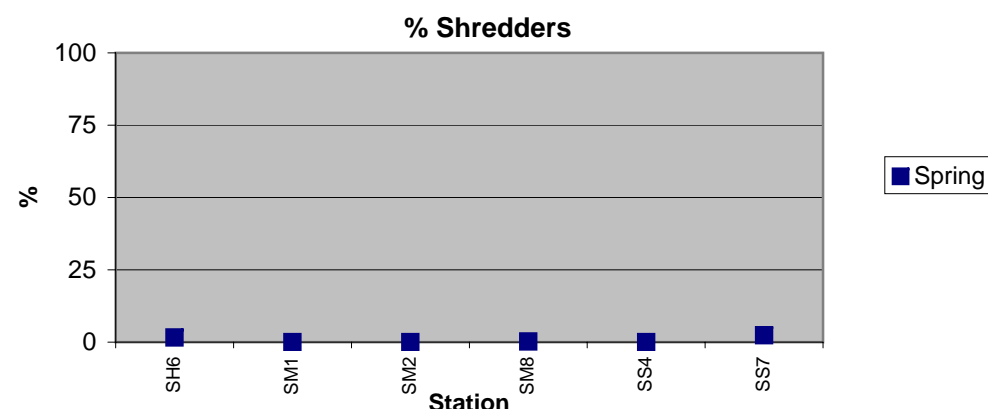
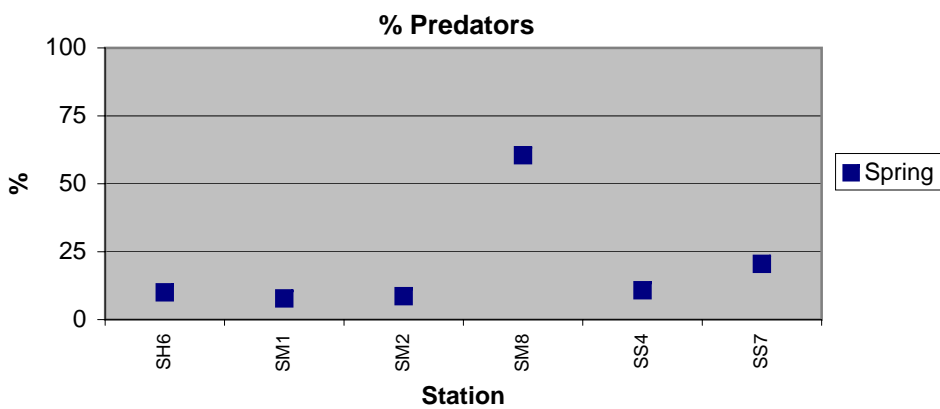
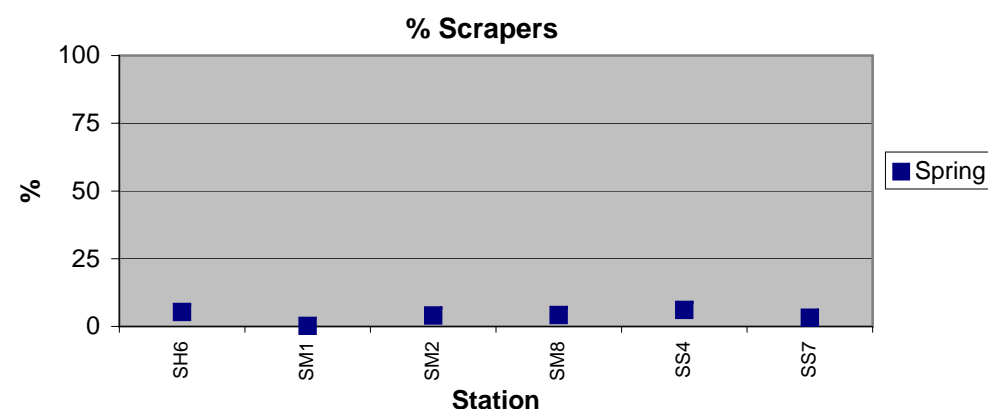
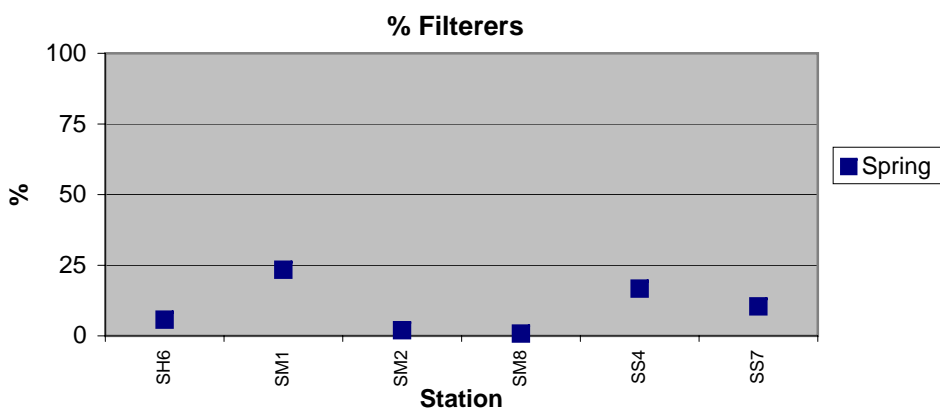
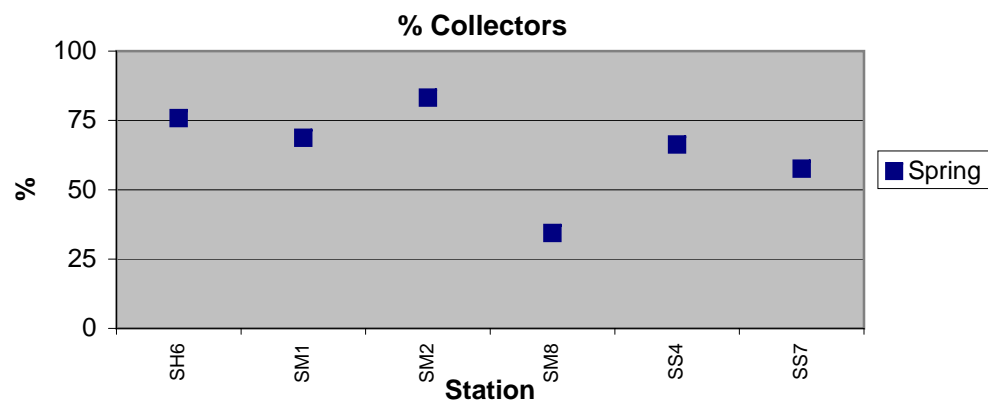
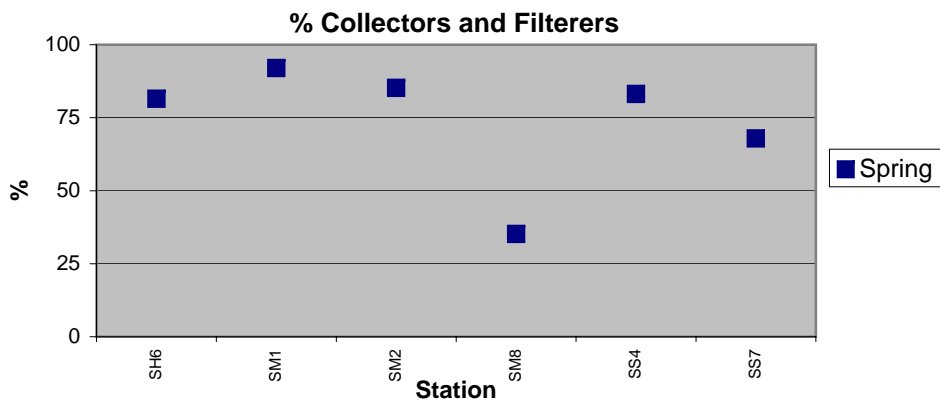


Predator Taxa









Spring 2007

Biological Metric	SH6	SM1	SM2	SM8	SS4	SS7
Taxonomic Richness	24	8	18	15	12	25
% Dominant taxa	46.2	55.5	64.5	52.6	33.7	27.3
EPT taxa	8	2	2	0	3	6
EPT Index (%)	11	10	3	0	27	20
Sensitive EPT Index (%)	2.0	0.0	0.0	0.0	0.0	7.2
Predator Taxa	7	1	6	7	3	8
Coleoptera Taxa	2	0	1	0	0	1
% Chironomidae	23.2	2.4	10.6	20.6	5.3	27.3
% Non-Insect	56.6	63.9	77.0	74.7	50.8	42.2
Shannon Diversity	1.85	1.23	1.46	1.54	1.87	2.21
Tolerance Value	6.8	6.9	7.2	5.2	6.2	5.9
% Intolerance Value (0-2)	0.6	0.0	0.0	0.0	0.0	7.2
% Tolerance Value (8-10)	51.5	55.7	68.5	13.6	35.2	31.9
% Collector Gatherers + Filterers	81.5	92.0	85.2	35.2	83.1	67.9
% Collector Gatherers	75.8	68.7	83.2	34.4	66.3	57.6
% Collector Filterers	5.7	23.4	2.0	0.8	16.7	10.4
% Scrapers	5.3	0.2	4.0	4.2	6.1	3.2
% Predators	10.0	7.8	8.6	60.5	10.8	20.5
% Shredders	1.6	0.0	0.0	0.2	0.0	2.4

Metric Scoring Ranges for the Southern California IBI

Metric Score	Coleoptera Taxa	EPT Taxa		Predator Taxa	% Collector Individuals		% Intolerant Individuals		% Non-Insect Taxa	% Tolerant Taxa
	All Sites	6	8	All Sites	6	8	6	8	All Sites	All Sites
10	>5	>17	>18	>12	0-59	0-39	25-100	42-100	0-8	0-4
9		16-17	17-18	12	60-63	40-46	23-24	37-41	9-12	5-8
8	5	15	16	11	64-67	47-52	21-22	32-36	13-17	9-12
7	4	13-14	14-15	10	68-71	53-58	19-20	27-31	18-21	13-16
6		11-12	13	9	72-75	59-64	16-18	23-26	22-25	17-19
5	3	9-10	11-12	8	76-80	65-70	13-15	19-22	26-29	20-22
4	2	7-8	10	7	81-84	71-76	10-12	14-18	30-34	23-25
3		5-6	8-9	6	85-88	77-82	7-9	10-13	35-38	26-29
2	1	4	7	5	89-92	83-88	4-6	6-9	39-42	30-33
1		2-3	5-6	4	93-96	89-94	1-3	2-5	43-46	34-37
0	0	0-1	0-4	0-3	97-100	95-100	0	0-1	47-100	38-100
Cumulative IBI Scores										
Very Poor 0-19		Poor 20-39		Fair 40-59		Good 60-79		Very Good 80-100		

anges for the Southern California IBI					
% Collector Individuals		% Intolerant Individuals		% Non-Insect Taxa	% Tolerant Taxa
6	8	6	8	All Sites	All Sites
0-59	0-39	25-100	42-100	0-8	0-4
60-63	40-46	23-24	37-41	9-12	5-8
64-67	47-52	21-22	32-36	13-17	9-12
68-71	53-58	19-20	27-31	18-21	13-16
72-75	59-64	16-18	23-26	22-25	17-19
76-80	65-70	13-15	19-22	26-29	20-22
81-84	71-76	10-12	14-18	30-34	23-25
85-88	77-82	7-9	10-13	35-38	26-29
89-92	83-88	4-6	6-9	39-42	30-33
93-96	89-94	1-3	2-5	43-46	34-37
97-100	95-100	0	0-1	47-100	38-100
ulative IBI Scores					
Fair 40-59		Good 60-79		Very Good 80-100	

Station	Spring 2006					
	SH6	SM1	SM2	SM8	SS4	SS7
EPT Taxa	4	1	1	0	1	3
Predator Taxa	4	0	3	4	0	5
Coleoptera Taxa	4	0	2	0	0	2
% Non-Insect	0	0	0	0	0	2
% Intolerant Taxa	1	0	0	0	0	3
% Tolerant	0	0	0	7	1	2
% Collector Taxa	4	2	3	10	4	7
Total	17	3	9	21	6	24
Adjusted Score (1.43)	24	4	13	30	9	34
So. Cal. IBI Rating	Poor	Very Poor	Very Poor	Poor	Very Poor	Poor

