TABLE 19.—Taxa and number of benthic invertebrates

[See figures 2, 3, and 4 for location of sampling stations. Results are based on number of individuals per square meter and rounded to standard significant figures (Slack and others, 1973)]

CLASSIFICATION	Redwood Creek above Highway 299 Bridge		Redwood Creek near Blue Lake				Redwood Creek at Redwood Valley Bridge		Redwood Creek at Lower End Redwood Valley		Redwood Creek above Panther Creek		High Slope Schist Creek			
	May 8, 1974	Sept. 18, 1974	May 8, 1974	Sept. 18, 1974	May 27, 1975	Sept. 14, 1975	May 8, 1974	Sept. 18, 1974	May 8, 1974	Sept. 18, 1974	May 9, 1974	Sept. 19, 1974	May 26, 1974	Sept. 22, 1974	May 30, 1975	Sept. 18, 1975
PHYLUM																
CLASS																
Order																
Family																
Sub-family																
Tribe																
Genus																
Sub-genus																
ANNELIDA																
OLIGOCHAETA (aquatic earthworms)	3	5		94		2,200				86		160				
POLYCHAETA (polychaete worms)																
Nereidae																
Neanthes																
ARTHROPODA																
ARACHNOIDEA																
Acari (=Hydracarina)	8	4,400	16	2,200	100	2,600	57	4,000	48	2,700	57	4,100	140	430	110	120
CRUSTACEA																
Amphipoda (scuds)																
Corophidae																
Corophium																
Gammaridae																
Anisogammarus																
Stygobromus													3	3	5	
Isopoda (aquatic sow bugs)																
Sphaeromidae																
Exosphaeroma																
Unknown																
INSECTA																
Coleoptera (beetles)																
Dytiscidae																
Agabinus																
Agabus																
Bidessus																
Deronectes																
Derovatellus																
Oreodytes					3			8								
Elmidae																
Ampumixis																
Dotelinnius					19	620				8			11	11		
Heterlimnius													11	27		
Optioservus	40	4,000	3	1,700		3,200	13	6,800	24	1,800	30	4,700	3		3	
Ordobrevia		370		22		100									13	
Zaitzevia	5	4,300	19	1,800	8	3,600	3	2,200		190	3	4,200	3	24		
Gyrinidae																
Gyrinus																
Hydraenidae (=Limnebiidae)																
Hydraena																
Limnebius								5								
Ochthebius																
Hydrophilidae																
Anacaena																
Cymbiodyta																
Helophorus																
Laccobius																
Paracymus																
Unknown																
Hydroscaphidae																
Hydroscapha																
Psephenidae																
Acneus																
Eubrianax																
Ptilodactylidae																
Anchycteis																
Staphylinidae																
Emplenota																
Thinusa			3										3			
Collembola (spring tails)			3													
Diptera (two-winged flies)										22				19	3	8
Blephariceridae																
Blepharicera							8									
Ceratopogonidae (=Heleidae)																
Atrichopogon																
Bezzia																5
Forcipomyia		190	5	48	3	65	3		3	48	3	210	3	30	3	8
Palpomyia	3					3		48								3
Chironomidae																
Chironominae																
Chironomini		290	13	27		130	5	360	5	350	8	430				
Tanytarsini	3	2,300	3	340		2,300	3	2,100		670						
Orthocladiinae and Diamesinae												2,100	38	46	8	27
Thienemannniella																
Other genera	27	1,400	40	290	30	5,000	24	4,200	22	190		520		5	5	32
Tanypodinae		91		100	3	220	11	180		830	22	2,800	140	120	65	140
Dixidae				8						73	3	300	46	130	5	13
Dolichopodidae										11				16		32
Empididae	5	65	3	8		27		65								
Ephydridae										32		54	5	8		11
Muscidae										5						
Psychodidae																
Maruina			3				3									
Ptychopteridae																
Rhagionidae																
Atherix		22				3		8		3		8				
Simuliidae		32	3	16		11		100		5		150				
Stratiomyidae															3	
Euparyphus		32		13		370		170								
Tabanidae		8		43			5			480		130				
Tanyderidae										5						
Protanyderus														5		
Tipulidae																
Antocha		78				62		62		11		27				
Dicranota													3	3	3	3
Gonomyia															3	3
Hexatoma		97	3	48	3	210	3	8	3	43		89	11	22	5	11
Limnophila																
Limonia																
Ormosia																
Pedicia																
Ulomorpha		100		24						3						
Ephemeroptera (mayflies)										3						
Baetidae																
Baetis	5	6,600	3	1,900	16	5,500	3	3,800	3	1,700	24	8,200	83	110	100	170
Centroptilum						22										
Ephemerellidae																
Ephemerella	8	260	5	110	8	150	11	22		100	22	230	13	32	8	3
Heptageniidae																
Cinygma																
Cinygmula	5				3	11	3	230				97				
Epeorus																
Iron		3				43		38				110	8			
Ironodes													21		100	89
Ironopsis	27		3				3		8		3					
Neptagenia						51			5			27	81	56	32	8
Rhithrogena																
Leptophlebiidae		3,600		2,100					3	48						
Paraleptophlebia		91		35		5		5			3		27	270	48	86
Siphlonuridae																
Ameletus	3		3						5				65	19	48	8
Isonychia		8				3										
Tricorythidae																
Tricorythodes																
Hymenoptera (wasps)																
Mymaridae																
Anagrus			3													
Fatasson										16						
Lepidoptera (butterflies, moths)																
Pyralidae																
Parargyractis																
Neuroptera (dobsonflies, fishflies)										3						
Corydalidae																
Dysmicohermes																
Sialidae																
Sialis																
Odonata (dragonflies, damselflies)																
Coenagrionidae																
Hyponeura																
Gomphidae																
Erpetogomphus																
Gomphus																
Octogomphus																
Ophiogomphus		180		32		8		38		54			3			
Plecoptera (stoneflies)																
Chloroperlidae																
Alloperla	65	46	38	27	62	13	67	27	46	59	83	38	130	120	230	110
Nastaperla																
Kathroperla													16	13	19	11
Paraperla	3						11		5	5	16					
Nemouridae																
Capnia																
Leuctra				3		3			3			5	59	360	27	11
Megaleuctra																
Nemoura						3							5	24	30	67
Perlomyia							5									
Peltoperlidae																
Peltoperla																
Perlidae													5		27	8
Acroneuria		690		260	3	190		260		16	3	170	5	8	100	100
Perlodidae																
Isogenus	67		65				27		8	3	51		13	190		
Isoperla																
Pteronarcidae																
Pteronarcys		13				3						3				
Trichoptera (caddisflies)																
Sericostomatidae																
Sericostoma		1,300		9,700	300	260		250		8		270				
Brachycentridae																
Micrasema							5				8					
Calamoceratidae													32		11	3
Heteroplectron																
Hydroptilidae													48			
Hydroptila		320						310		62		110				
Neotrichia																
Ochrotrichia		5		8		70		59		16						
Oxyethira																
Hydropsychidae																
Cheumatopsyche		12,000		480		59		380		2,300	5					
Hydropsyche		6,100		370	3	4,400		7,400		830		5,000				
Parapsyche															13	48
Lepidostomatidae																
Lepidostoma					3	3							8	21	3	5
Leptoceridae																
Oecetis																
Limnephilidae										5		5				
Dicosmoecus																
Neophylax																
Neothremma																
Oligophlebodes																
Pycnopsyche																
Philopotamidae																
Wormaldia		540		120		920		110		11		40				
Psychomyiidae																
Polycentropus																
Unknown																
Rhyacophilidae																
Agapetus						27				8		5				
Glossosoma													3			
Protoptila		54	3	160	3	120		81	3	2,200	3	290				
Rhyacophila	32	19	13	11	19	32	8	24	5		16	27	19	19	11	38
MOLLUSCA																
GASTROPODA (snails)																
Ancylidae																
Lanx																
Bythiniidae (=Bulimidae)																
Paludestrina																
NEMATODA (roundworms)		3				27									3	
PLATYHELMINTHES																
TURBELLARIA (free-living flatworms)																
Tricladida																
Planariidae																
Polycelis															5	
TOTAL NUMBER OF TYPES	17	37	22	32	18	42	22	33	16	45	20	34	30	35	35	32
TOTAL NUMBER OF INDIVIDUALS	310	50,000	250	22,000	590	33,000	280	34,000	190	15,000	370	35,000	970	2,300	1,100	1,200

CLASSIFICATION	Redwood Creek above Copper Creek		Copper Creek				Slide Creek		Redwood Creek at South Park Boundary				Bridge Creek			
	May 9, 1974	Sept. 19, 1974	May 9, 1974	Sept. 19, 1974	May 28, 1975	Sept. 15, 1975	May 9, 1974	Sept. 13, 1974	May 9, 1974	Sept. 13, 1974	June 3, 1975	Sept. 15, 1975	May 13, 1974	Sept. 16, 1974	June 1, 1975	Sept. 16, 1975
PHYLUM																
CLASS																
Order																
Family																
Sub-family																
Tribe																
Genus																
Sub-genus																
ANNELIDA																
OLIGOCHAETA (aquatic earthworms)		180		86		2,200		3		3	5	450	3			
POLYCHAETA (polychaete worms)																
Nereidae																
Neanthes																
ARTHROPODA																
ARACHNOIDEA																
Acari (=Hydracarina)	5	6,300	83	6,100	110	15,000	11	410	100	2,400	210	1,900	48	970	48	
CRUSTACEA																
Amphipoda (scuds)																
Corophidae																
Corophium																
Gammaridae																
Anisogammarus																
Stygobromus							5							3		
Isopoda (aquatic sow bugs)										3						
Sphaeromidae																
Exosphaeroma																
Unknown																
INSECTA																
Coleoptera (beetles)																
Dytiscidae																
Agabinus																
Agabus								3								
Bidessus								24								
Deronectes																
Derovatellus																
Oreodytes															3	
Elmidae																
Ampumixis														3		
Dotelinnius									8		3			5		
Heterlimnius			8	65					11					16		
Optioservus					5			3	27						5	
Ordobrevia	13	2,600	51	7,400	62	19,000		59	46	2,600	126	5,400	8	1,500	13	11
Zaitzevia		27	54	32	11	57			3							
Gyrinidae																
Gyrinus	3	1,300	120	840	51	2,600		65	3	590	59	950		3		
Hydraenidae (=Limnebiidae)																
Hydraena													3			
Limnebius		3		11				97								
Ochthebius						3										
Hydrophilidae																
Anacaena																
Cymbiodyta																
Helophorus																
Laccobius																
Paracymus																
Unknown																
Hydroscaphidae																
Hydroscapha				13												
Psephenidae																
Acneus																
Eubrianax							5	5	11							
Ptilodactylidae																
Anchycteis		8	11	480	5	810	11	178		6	3					
Staphylinidae																
Emplenota							8	3								
Thinusa		3	3			3										
Collembola (spring tails)							3	8								
Diptera (two-winged flies)							3	35								
Blephariceridae																
Blepharicera																
Ceratopogonidae (=Heleidae)																
Atrichopogon																
Bezzia						38										
Forcipomyia		32	5	140	8	500	3	70	3	11	5	32	24	46	81	
Palpomyia				22		3						70				
Chironomidae																
Chironominae																
Chironomini		1,100		470		170		43	3	86		160	22	32		
Tanytarsini		1,300		6,000	11	250		2,500		580		1,700	3	870	5	
Orthocladiinae and Diamesinae																
Thienemannniella		3,600		960				350		130	3	120		180	5	
Other genera	3	5,400	11	920	710	2,500	27	400	22	440	110	1,200	630	2,200	1,100	
Tanypodinae		170		390	5	440		390	3	81	11	70	5	220	3	
Dixidae				32		3		70		5				8		
Dolichopodidae			3			30										
Empididae				54	3	100		24	3	62	5	62		100		11
Ephydridae		83														
Muscidae															5	
Psychodidae																
Maruina																
Ptychopteridae				11												
Rhagionidae																
Atherix										24	5	46				
Simuliidae		75	130	57	16			83		75		550	11	13	19	
Stratiomyidae																
Euparyphus																
Tabanidae		140		57		81				78	5	220				
Tanyderidae						3								3		
Protanyderus																
Tipulidae																
Antocha		38		86		170				11		62			3	
Dicranota								38						5		
Gonomyia																
Hexatoma		24		11	3	100	3	16		51		100				
Limnophila				65				5								
Limonia																
Ormosia													3			
Pedicia		43														
Ulomorpha																
Ephemeroptera (mayflies)																
Baetidae																
Baetis	30	1,800	460	980	120	1,300	730	1,700	16	3,000	62	22,000	130	1,600	19	
Centroptilum				130		11		150		43				35		
Ephemerellidae																
Ephemerella	8	250	24		13	27	3	130	22	100	32	170	13	270	5	
Heptageniidae																
Cinygma														19		
Cinygmula								16		67		11	19	180		
Epeorus																
Iron	3	16			3	75		13				3				
Ironodes			3				70									
Ironopsis	5						97		16				8			
Neptagenia						11		8		8				24		
Rhithrogena		130	420	75		3	8		8							
Leptophlebiidae																
Paraleptophlebia		5		54		270	13	75		3	5	11	3	16		
Siphlonuridae																
Ameletus						5	8	3								
Isonychia	3	3														
Tricorythidae																
Tricorythodes																
Hymenoptera (wasps)																
Mymaridae																
Anagrus																
Fatasson																
Lepidoptera (butterflies, moths)																
Pyralidae																
Parargyractis																
Neuroptera (dobsonflies, fishflies)																
Corydalidae																
Dysmicohermes																
Sialidae																
Sialis																
Odonata (dragonflies, damselflies)																
Coenagrionidae																
Hyponeura																
Gomphidae																
Erpetogomphus				27												
Gomphus																
Octogomphus								5								
Ophiogomphus																
Plecoptera (stoneflies)																
Chloroperlidae		5														
Alloperla	81	75	57	3	46		27	3	75	54	83	46	59	27	67	
Nastaperla																
Kathroperla																
Paraperla																
Nemouridae							3						3			
Capnia																
Leuctra								120		3				8		
Megaleuctra																
Nemoura			11	380		1,100	89	350	3	5		32	8	100	16	
Perlomyia																
Peltoperlidae																
Peltoperla							3									
Perlidae																
Acroneuria		91				3	8	59	13	40	43	91		5		
Perlodidae																
Isogenus	13	5		32		3	120	3	3	5			19	11		
Isoperla																
Pteronarcidae																
Pteronarcys		8														
Trichoptera (caddisflies)																
Sericostomatidae																
Sericostoma			11	11,000	13	1,500										
Brachycentridae		5		11		8										
Micrasema																
Calamoceratidae	3		5	32		51										
Heteroplectron																
Hydroptilidae								3								
Hydroptila		230		370		440		3		13		310		850		
Neotrichia						54								13		
Ochrotrichia		5				5										
Oxyethira																
Hydropsychidae																
Cheumatopsyche		790		11		75			3	73		5		3		
Hydropsyche		2,300	8	390	3	880	22	22	3	1,900	13	2,200	3	120		
Parapsyche			3				100		3					3		
Lepidostomatidae	3															
Lepidostoma																
Leptoceridae		5		54				27						3		
Oecetis																
Limnephilidae																
Dicosmoecus																
Neophylax																
Neothremma																
Oligophlebodes																
Pycnopsyche																
Philopotamidae																
Wormaldia				170		430		3		67		48		5		
Psychomyiidae		350														
Polycentropus																
Unknown				78		67		100		8						
Rhyacophilidae																
Agapetus						450		5		3				5		
Glossosoma				65						3		3		8		
Protoptila		510				35				250	51	620		35		
Rhyacophila	8	40	51	3	16	120	70	34	27	16	57	3	62	16	5	
MOLLUSCA																
GASTROPODA (snails)																
Ancylidae																
Lanx																
Bythiniidae (=Bulimidae)																
Paludestrina				16				5								
NEMATODA (roundworms)																
PLATYHELMINTHES																
TURBELLARIA (free-living flatworms)																
Tricladida																
Planariidae																
Polycelis		3														
TOTAL NUMBER OF TYPES	24	46	24	46	25	38	25	35	24	44	17	2	31	49	21	22
TOTAL NUMBER OF INDIVIDUALS	1,500	38,000	1,200	51,000	1,400	7,700	430	13,000	910	39,000	1,100	9,500	1,400	22	1,800	3,800

CLASSIFICATION	Harry Wier Creek				Redwood Creek below Harry Wier Creek		Redwood Creek above Tom McDonald Creek				Tom McDonald Creek				Redwood Creek above Miller Creek		Miller Creek near Orick			