

GSA Data Repository

"Fossil Spring Deposits in the southern Great Basin and their implications for changes in water-table levels near Yucca Mountain, Nevada, during Quaternary time" by Quade et al., Geological Society of America Bull. v. 107, p. 213-230.

Repository data tables list the fossil mollusks found in late Quaternary-age deposits in the southern Great Basin. Paleoenvironments and sample abbreviations listed in footnote. All sample collections by J. Quade, and all faunal identifications by W. Pratt and J. Quade.

TABLE 1 FOSSIL MOLLUSKS FROM SOUTHERN NEVADA

Species	environment*	sample no.^						
		CVMol.-1a	CVMol.-2	NCySF-2	NCySF-3	NCySF-5	NCySF-9	SCySF-1
<i>Asaminea</i> sp.	SSP,S	3.4	2.2	19.2	11.4		5.9	39.7
<i>Catinellida</i>	MT	12.2	2.9	1.4				0.5
<i>Deroceras</i>	MT							
<i>Discus cronkitei</i>	MT							
<i>Euconulus fulvus</i>	MT							
<i>Fossaria modicella</i>	SS, SSP							7.5
<i>Fossaria parva</i>	MT,SS	1.69	0.4	1.4			3.2	
<i>Gastrocopta pelleucida</i>	MT							
<i>G. tappaniana</i>	MT			49.3	32.9	6.3	66.2	
<i>Gyraulus parvus</i>	SSP					31.3		8
<i>G. circumstriatus</i>	SS,SPP	0.8	0.4					
<i>Hawaiiia</i> sp.	MT			8.2			0.6	
<i>Oxyloma</i> sp.	MT							
<i>Physa gyrina</i>	SPP	1.2						
<i>P. virgata</i>	SPP,M							
<i>Pisidium casertanum</i>	SPP,M	1.3	0.4	4.1		62.5	4.6	0.5
<i>P. rotundatum</i>	SPP,M			2.7				
<i>Pupilla hebes</i>	MT							
<i>P. muscorum</i>	MT			1.4				17.1
<i>Pupoides</i> sp.	MT							
<i>Pygulopsis av.</i>	S						1.3	
<i>Pygulopsis mi.</i>	S	59.1	82.5					
<i>Pygulopsis</i> sp.	S				55.8		0.6	
<i>Stagnicola caperata</i>	SS,SPP							
<i>S. eloides</i>	SPP, M							
<i>S. montanensis</i>	SS,SPP							
<i>S. pilsbryi</i>	SS,SPP	1.69	0.7					
<i>Succinea</i>	MT							
<i>Tryonia v.</i>	S	3.4	8					
<i>Vallonia cyclophorella</i>	MT, PF							
<i>V. gracilicosta</i>	MT, PF			6.8				
<i>Vallonia</i> sp.	MT, PF							
<i>Vertigo berryi</i>	MT	15.2	2.5	5.5			17.5	

mollusks/kg sediment

125 1965 112 69 12 312

TABLE 1 FOSSIL MOLLUSKS FROM SOUTHERN NEVADA

Species	environment*	sample no.						
		PteVF-1	PteVF-4	TLV-1	CSF-30	CSF-31	CSF-61	CS85-20
<i>Anodonta californiensis</i>	M, S							0.5
<i>Assiminea</i> sp.	SSP, S							
<i>Catinella gabbi</i>	MT	0	62.5	2	4	29		2
<i>Deroceras</i>	MT							
<i>Discus cronkitei</i>	MT							
<i>Euconulus fulvus</i>	MT					3		present
<i>Fossaria modicella</i>	SS, SSP					2	15	present
<i>Fossaria parva</i>	MT, SS			4	5	3		3
<i>Gastrocopta pelleucida</i>	MT		12.5					
<i>G. tappaniana</i>	MT					28		
<i>Gyraulus parvus</i>	SSP				19		31	2
<i>G. circumstriatus</i>	SS, SPP	100		79	14	5		
<i>Hawaiiia</i> sp.	MT							
<i>Oxyloma</i> sp.	MT					2	23	
<i>Physa gyrina</i>	SPP							
<i>P. virgata</i>	SPP, M							18
<i>Pisidium casertanum</i>	SPP, M			2	11	4	8	21
<i>P. compressum</i>	SPP, M						4	
<i>P. rotundatum</i>	SPP, M				6			35
<i>Planorbella subcrenata</i>	M							present
<i>Promenetus umbilicatell</i>	M							0.5
<i>Pupilla hebes</i>	MT							
<i>P. muscorum</i>	MT					3	4	1
<i>Pupoides albolabris</i>	MT							
<i>Pygulopsis</i> av.	S							
<i>Stagnicola caperata</i>	SS, SPP							3
<i>S. eloides</i>	SPP, M				0.5	0.5		present
<i>S. montanensis</i>	SS, SPP							
<i>S. pilsbryi</i>	SS, SPP					1		0.5
<i>Succinea</i>	MT							
<i>Vallonia cyclophorella</i>	MT, PF							
<i>V. gracilicosta</i>	MT, PF							3
<i>Valvata humeralis</i>	M				43			1
<i>Vertigo berryi</i>	MT			13	1	20	15	1

mollusks/kg sediment

16

10

31

730

TABLE 1 FOSSIL MOLLUSKS FROM SOUTHERN NEVADA

Species	environment*	sample no.				
		VWF87-4	VWF87-5	VWF87-6	VWF87-7	VWF87-9
<i>Assiminea</i> sp.	SSP,S					
<i>Catinellidae</i>	MT	57.1	17	28.5	11	7.7
<i>Deroceras</i>	MT		1.1	2.7		0.5
<i>Discus cronkitei</i>	MT					0.5
<i>Euconulus fulvus</i>	MT					
<i>Fossaria modicella</i>	SS, SSP					
<i>Fossaria parva</i>	MT,SS					
<i>Gastrocopta pelleucida</i>	MT					
<i>G. tappaniana</i>	MT		0.4	3.7		
<i>Gyraulus parvus</i>	SSP			2.7		1.9
<i>G. circumstriatus</i>	SS,SPP		41.9	5.9	5.2	4.9
<i>Hawaiiia</i> sp.	MT					
<i>Oxyloma</i> sp.	MT					
<i>Physa gyrina</i>	SPP			0.5		
<i>P. virgata</i>	SPP,M					
<i>Pisidium casertanum</i>	SPP,M	21.4	3.1			
<i>P. rotudatum</i>	SPP,M		0.4			
<i>Pupilla hebes</i>	MT					
<i>P. muscorum</i>	MT	1.1	20.8	15.2	2.1	1.4
<i>Pupoides</i> sp.	MT					
<i>Pygulopsis av.</i>	S					
<i>Pygulopsis mi.</i>	S					
<i>Pygulopsis</i> sp.	S					
<i>Stagnicola caperata</i>	SS,SPP					
<i>S. eloides</i>	SPP, M			26.9	2.1	29.3
<i>S. montanensis</i>	SS,SPP					4.8
<i>S. pilsbryi</i>	SS,SPP					
<i>Succinea</i>	MT					
<i>Tryonia</i> v.	S					
<i>Vallonia cyclophorella</i>	MT, PF		4.6	7.5	8.9	1.4
<i>V. gracilicosta</i>	MT, PF				11	
<i>Vallonia</i> sp.	MT, PF				58.6	
<i>Vertigo berryi</i>	MT	21.4	6.2	6.4	1.2	3.4
mollusks/kg sediment		369	3574	1697	1437	1289

TABLE 1 FOSSIL MOLLUSKS FROM SOUTHERN NEVADA

Species	environment*	sample no.					
		Pah. Mol. 1	Pah. Mol. 6	Pah. Mol. 7	Pah. Mol. 9	Pah. Mol. 17	PVF-66
<i>Asaminea</i> sp.	SSP,S						
<i>Catinellidae</i>	MT						
<i>Deroceras</i>	MT						0.5
<i>Discus cronkitei</i>	MT						2
<i>Euconulus fulvus</i>	MT						
<i>Fossaria modicella</i>	SS, SSP						
<i>Fossaria parva</i>	MT,SS	6.7			7.4		0.5
<i>Gastrocopta pelleucida</i>	MT						
<i>G. tappaniana</i>	MT				13.1		
<i>Gyraulus parvus</i>	SSP						1
<i>G. circumstriatus</i>	SS,SPP			44	0.6	93.6	
<i>Hawaiiia</i> sp.	MT		56.1		28.6		
<i>Oxyloma</i> sp.	MT						
<i>Physa gyrina</i>	SPP						
<i>P. virgata</i>	SPP,M						
<i>Pisidium casertanum</i>	SPP,M	53.3		36	20.6		1
<i>P. rotundatum</i>	SPP,M						
<i>Pupilla hebes</i>	MT						
<i>P. muscorum</i>	MT						
<i>Pupoides</i> sp.	MT						92
<i>Pygulopsis av.</i>	S						
<i>Pygulopsis mi.</i>	S						
<i>Pygulopsis</i> sp.	S	13.3	2.4		2.9		
<i>Stagnicola caperata</i>	SS,SPP		31.7	16			
<i>S. eloides</i>	SPP, M						
<i>S. montanensis</i>	SS,SPP						
<i>S. pilsbryi</i>	SS,SPP						
<i>Succinea</i>	MT	26.7	7.3	4	4.6	6.5	
<i>Tryonia</i> v.	S						
<i>Vallonia cyclophorella</i>	MT, PF						
<i>V. gracilicosta</i>	MT, PF				15.4		3
<i>Vallonia</i> sp.	MT, PF						
<i>Vertigo berryi</i>	MT		2.4		6.9		

mollusks/kg sediment

TABLE 1 FOSSIL MOLLUSKS FROM SOUTHERN NEVADA

Species	environment*	sample no.						
		SVF87-1	SVF87-11	SVF87-13	SVF87-14	SVF87-17	SVF87-2	SVF87-23
<i>Assiminea</i> sp.	SSP,S							
<i>Catinellidae</i>	MT	0.5	19.8	33.3	38.2	22.7	1.5	31.4
<i>Deroceras</i>	MT					2		2.8
<i>Discus cronkitei</i>	MT							
<i>Euconulus fulvus</i>	MT		2.9			1		
<i>Fossaria modicella</i>	SS, SSP				4.3	3		
<i>Fossaria parva</i>	MT,SS	2.6	9		4.9	5	11.9	1.1
<i>Gastrocopta pelleucida</i>	MT							
<i>G. tappaniana</i>	MT		3.3		1.2	3.5		2
<i>Gyraulus parvus</i>	SSP	0.5	1.7	33.3	22.8	13.6	13.4	
<i>G. circumstriatus</i>	SS,SPP	0.5	3.3		6.2	7.1	1.5	17.6
<i>Hawaiiia</i> sp.	MT							
<i>Oxyloma</i> sp.	MT	0.5	0.4				1.5	1.1
<i>Physa gyrina</i>	SPP							
<i>P. virgata</i>	SPP,M	1.5				0.5	4.5	
<i>Pisidium casertanum</i>	SPP,M	25.5	19.8	33.3	8	5.6	34.3	7.4
<i>P. rotudatum</i>	SPP,M	4.1				4.5	10.4	
<i>Pupilla hebes</i>	MT							
<i>P. muscorum</i>	MT		17.7		1.9	4		10.2
<i>Pupoides</i> sp.	MT	0.5						
<i>Pygulopsis av.</i>	S							
<i>Pygulopsis mi.</i>	S							
<i>Pygulopsis</i> sp.	S	63	3.3				11.9	
<i>Stagnicola caperata</i>	SS,SPP							
<i>S. eloides</i>	SPP, M							
<i>S. montanensis</i>	SS,SPP							
<i>S. pilsbryi</i>	SS,SPP							
<i>Succinea</i>	MT							
<i>Tryonia v.</i>	S							
<i>Vallonia cyclophorella</i>	MT, PF		0.4					
<i>V. gracilicosta</i>	MT, PF							1.1
<i>Vallonia</i> sp.	MT, PF							
<i>Vertigo berryi</i>	MT		18.5		12.3	27.3	4.5	25.2
mollusks/kg sediment		10709	1820	12	545	190		393

TABLE 1 FOSSIL MOLLUSKS FROM SOUTHERN NEVADA

Species	environment*		sample no.					
	SVF87-24	SVF-28	SVF87-4	SVF87-5	SVF87-6	SVF87-7	SVF-16	
<i>Asaminea</i> sp.								
<i>Catinellidae</i>	31.6	27.2	9.8	40.5	16.7	27.7	48.6	
<i>Deroceras</i>				1.1			1.9	
<i>Discus cronkitei</i>								
<i>Euconulus fulvus</i>	0.7					0.3		
<i>Fossaria modicella</i>								
<i>Fossaria parva</i>	13.6	3.7		5.6		14	7.2	
<i>Gastrocopta pelleucida</i>								
<i>G. tappaniana</i>		7.6				0.3		
<i>Gyraulus parvus</i>	4.3	1.6	17.6	3.5		7.4	6.5	
<i>G. circumstriatus</i>	9.3	7.6		2.1		13.7	9.2	
<i>Hawaiiia</i> sp.								
<i>Oxyloma</i> sp.								
<i>Physa gyrina</i>								
<i>P. virgata</i>	1.4					0.6		
<i>Pisidium casertanum</i>	5	2.8	9.8	2.1		7.1	2.7	
<i>P. rotudatum</i>	1.4	0.9	52.9	9.1				
<i>Pupilla hebes</i>								
<i>P. muscorum</i>	17.2	19.6		6.7	50	12.9	6.5	
<i>Pupoides</i> sp.								
<i>Pygulopsis av.</i>								
<i>Pygulopsis mi.</i>								
<i>Pygulopsis</i> sp.				2.1				
<i>Stagnicola caperata</i>								
<i>S. eloides</i>								
<i>S. montanensis</i>								
<i>S. pilsbryi</i>	0.7			3.5			0.9	
<i>Succinea</i>								
<i>Tryonia v.</i>								
<i>Vallonia cyclophorella</i>								
<i>V. gracilicosta</i>	6.5	1.6						
<i>Vallonia</i> sp.								
<i>Vertigo berryi</i>	8.5	27.5		9.8	33.3	16.1		
mollusks/kg sediment	1461	562	231	1586	3	1417	545	

TABLE 1 FOSSIL MOLLUSKS FROM SOUTHERN NEVADA

*Environments: M = marsh; MT = moist terrestrial area; PF = phreatophyte flat; SSP = small perennial pond; SS = seasonally standing water; S = spring

^ abbreviations: CV = Chicago Valley, CS = Corn Creek Flat, NCyS/ScyS = Coyote Springs Valley (north/south), Pah.Mol. 1/PV = Pahrump Valley, PteV = Paiute Valley, SVF= Sandy Valley, TLV = Three Lakes Valley, VWF = Valley Wells