TABLE 1.—*Geographic and stratigraphic distribution and abundance of the gastropod species of the Ripley, Owl Creek, and Prairie Bluff formations of western Tennessee and northeastern Mississippi*

[The numbers listed opposite the species names indicate the number of specimens of that species present at the corresponding locality. For locality descriptions see sections "Descriptions of localities and detailed stratigraphic sections]

Ripley formation

Species	Tennessee	Alcorn County, Miss.	Tippah County, Miss.										Union County, Miss.																					Pontotoc County, Miss.						Chickasaw County, Miss.
	1	2	3	4	5	6	7	8	9	9a	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Archeogastropoda:																																								
Weeksia amplificata (Wade)	4		3				1								1		3		7											3			1							
deplanata (Johnson)																																								
Acmaea galea Sohl, n. sp.	2																																							
Calliomphalus (*Calliomphalus*) *americanus* Wade	128				1	28						5	1			16	54	2	23					2				1							1					1
(*C.*) *nudus* Sohl, n. sp.										1																							2							
sp.																																								
(*Planolateralus*) *argenteus* Wade	250	2																																						
argenteus spinosus Sohl, n. subsp.	182																																							
decoris Sohl, n. sp.	1																																							
conanti Sohl, n. sp.	2						8							(?)				2						3																
angustus Sohl, n. sp.	1																																							
sp.																																								
Urceolabrum tuberculatum Wade	247																																							
tuberculatum callistum Harbison					1	69				3					1	20		55	99						12					4										
sp.																																								
Teinostoma prenanum Wade	1																																							
cf. *T. prenanum* Wade																																								
clara Sohl, n. sp.						1										1																								
Neritina? *densata* Conrad																																								
? sp.																																								
Damesia keownvillensis Sohl, n. sp.						3																			1					2										
Mesogastropoda:																																								
Pseudomalaxis ripleyana Wade	3																																							
pilsbryi Harbison	3				5	8				(?)							3		7				1	1	2					2										
pateriformis Stephenson																																								
? *stantoni* Sohl, n. sp.						3										1									1			1		3										
sp. A																								1																
sp. B	1					1																																		
Margaritella pumila Stephenson														1		1	3	1	1						1					1										
? sp.																																								
Laxispira lumbricalis Gabb	362				9	34	3			(?)				1		6	6	2	82									2		15			3				1			
Turritella trilira Conrad	75		1	27	3	11	5	1	2	3	2	2	2		1	13	59	300+	93				5	1	73			5		6	1		4	2						
bilira Stephenson									1	2																														
macnairyensis Wade	2																																							
tippana Conrad	120			42					3		4	17							5				3			8						1	9	2						
vertebroides Morton	162		7	16		20		3			5	2			7	1	26	5	24				12	1	2		2	17	14	12				5				1		
howelli Harbison				6	27	265							4	2	72	36	125	37	695	17					22					6										
hilgardi Sohl, n. sp.					1		1		1	1									3											3										
chalybeatensis Sohl, n. sp.																																								
cf. *T. encrinoides* Morton																																								
sp.																																				1				
Trobus buboanus Stephenson																																								
corona (Conrad)						2			1										3					2					1											
Melanatria? *cretacea* Wade	2																																							
? sp.																																								
Nudivagus simplicus Wade	6																																							
sp.																			1																					
Dircella spillmani (Conrad)																																								
Cerithium weeksi Wade	104				1		1												3											1										
nodoliratum Wade	12					1																																		
semirugatum Wade	7																	2												1										
sp.																																								
Seila meeki (Wade)	23																	4												1										
quadrilirata (Wade)	1																													3										
sp.																												3												
Lemniscolittorina berryi (Wade)	2																						3																	
Anteglossia tennesseensis (Wade)	4					1										2	5	1	2						11			1		5										
subornata (Wade)	2																																							
sp.																																								
Turboella costata (Wade)	1																																							
tallahatchiensis Sohl, n. sp.						1										28	2	5							34					4										
crebricostata Sohl, n. sp.																														8										
Trichotropis imperfecta Wade	2																																							
mississippiensis Sohl, n. sp.																	2		2																					
Astandes densatus Wade	2																																							
Turbinopsis hilgardi Conrad																																								
? cf. *T. curta* Whitfield																																								
? cf. *T. depressa* Gabb																																								
? sp.																																								
Capulus monroei Sohl, n. sp.	2																																							
corrugatus Wade	4																																							
cuthandensis Stephenson?																																								
Thylacus cretaceus Conrad	14				2					(?)						4	2		2																					
Crucibulum? sp.																														1										
Xenophora leprosa (Morton)	3																													1										
Graciliala calcaris (Wade)	60			5	13	230	3		2	3		5	10	1	32	178	518	40	288			1	1	4						2										
decemlirata Conrad																																								
Drepanochilus quadriliratus (Wade)	3																																							
triliratus Stephenson						1													1																					
sp.																																								
Arrhoges (*Latiala*) *lobata* (Wade)	34				1												2							1	(?)					5			(?)							
(*Latiala*) cf. *A. lobata* (Wade)																																								
cf. *A. plenocosta* (Stephenson)																																								
sp.																																								
Helicaulax formosa Stephenson																																								
Anchura abrupta Conrad					3	24	1								1	7			33											6										
substriata Wade	65																						3																	
convexa Wade	3																																							
noakensis Stephenson?																																								
sp.																																								
? sp.																																								
? sp.																																		1						
Pterocerella tippana (Conrad)																																								
poinsettiformis Stephenson	16						1																																	
pontotocensis Sohl, n. sp.																																								
sp. A					1	2											2		1						1					1										
sp. B																																								
Colombellina? *americana* Wade	18						1																																	
Pugnellus (*Pugnellus*) *densatus* Conrad	21			1	1	1									2	1	3		12					1				1	1	1	1	1		1						
(*Pugnellus*) *densatus* Conrad?																																								
goldmani Gardner				1		1													1					2						1		1								
(*Gymnarus*) *abnormalis* Wade	1								1					2					1					1						1										
sp.																																								
Gyrodes supraplicatus (Conrad)			3		2	3									1		1	1	4				2	1				1		10										
major Wade	16																																							
americanus (Wade)	1					3	2						1			1		1																						
spillmani Gabb	6			1	1	1				1							5	3	4									6												
abyssinus (Morton)																																								
petrosus (Morton)																																								
sp.																									1															
Polinices kummeli Sohl, n. sp.																																								
Euspira rectilabrum (Conrad)	515	1	2	1	32	99	5			2	3	1	5		31	57	84	7	386	1			81	5	13			14		20			4	5			1			1
cf. *E. rectilabrum* (Conrad)																																								
Amaurellina stephensoni (Wade)	16																1													2										
Pseudamaura lirata (Wade)	3																																							
Ampullella umbilica (Wade)	1																																							
"*Ampullina*" *potens* Wade	1																																							
Ampullellinae indet.																																								
Charonia? *univaricosum* (Wade)	6																																							
Plesiotriton cretaceus Sohl, n. sp.						1																																		
Tintorium pagodiforme Sohl, n. sp.	1																																							
Mathilda (*Mathilda*) *ripleyana* Wade	8																																							
(*Mathilda*?) *cedarensis* Stephenson				(?)		3										1	5	2	2											3										
(*Echinimathilda*) *corona* Sohl, n. sp.																																								
unionensis Sohl, n. sp.						3											1	3						1	1															
Promathilda (*Clathrobaculus*) *cretacea* (Wade)	2																																							
(*Clathrobaculus*) *parvula* Sohl, n. sp.						1											(?)													1										
Gegania parabella (Wade)	5																						(?)																	
bella prodiga Sohl, n. subsp.						1									1	6	1		3									(?)		10										
sp.																																								
Acrocoelum? *cereum* Sohl, n. sp.																3		1										2		9										

Owl Creek formation

Species	Tennessee	Tippah County, Miss.								Union County, Miss.			
	40	41	42	43	44	45	46	47	48	49	50	51	52
Archeogastropoda:													
Weeksia amplificata (Wade)													
deplanata (Johnson)													
Acmaea galea Sohl, n. sp.													
Calliomphalus (*Calliomphalus*) *americanus* Wade					1		2						
(*C.*) *nudus* Sohl, n. sp.													
sp.						1							
(*Planolateralus*) *argenteus* Wade													
argenteus spinosus Sohl, n. subsp.													
decoris Sohl, n. sp.													
conanti Sohl, n. sp.													
angustus Sohl, n. sp.													
sp.													
Urceolabrum tuberculatum Wade													
tuberculatum callistum Harbison													
sp.		1					1						
Teinostoma prenanum Wade													
cf. *T. prenanum* Wade	2												
clara Sohl, n. sp.	1												
Neritina? *densata* Conrad							1						
? sp.													
Damesia keownvillensis Sohl, n. sp.													
Mesogastropoda:													
Pseudomalaxis ripleyana Wade													
pilsbryi Harbison													
pateriformis Stephenson													
? *stantoni* Sohl, n. sp.							1						
sp. A													
sp. B													
Margaritella pumila Stephenson													
? sp.													
Laxispira lumbricalis Gabb													
Turritella trilira Conrad	3			1		1	3						
bilira Stephenson	1							1					
macnairyensis Wade													
tippana Conrad	3			1	3	5	38					2	
vertebroides Morton	1	1		2	7	1	6						1
howelli Harbison													
hilgardi Sohl, n. sp.													
chalybeatensis Sohl, n. sp.		13					7						
cf. *T. encrinoides* Morton													
sp.													
Trobus buboanus Stephenson					1	1	1						
corona (Conrad)													
Melanatria? *cretacea* Wade													
? sp.						1							
Nudivagus simplicus Wade													
sp.													
Dircella spillmani (Conrad)	4						4						
Cerithium weeksi Wade													
nodoliratum Wade													
semirugatum Wade													
sp.													
Seila meeki (Wade)													
quadrilirata (Wade)													
sp.													
Lemniscolittorina berryi (Wade)													
Anteglossia tennesseensis (Wade)													
subornata (Wade)													
sp.							1						
Turboella costata (Wade)													
tallahatchiensis Sohl, n. sp.													
crebricostata Sohl, n. sp.													
Trichotropis imperfecta Wade													
mississippiensis Sohl, n. sp.													
Astandes densatus Wade													
Turbinopsis hilgardi Conrad							1						
? cf. *T. curta* Whitfield													
? cf. *T. depressa* Gabb													
? sp.													
Capulus monroei Sohl, n. sp.													
corrugatus Wade													
cuthandensis Stephenson?													
Thylacus cretaceus Conrad	2		1		1		1						
Crucibulum? sp.													
Xenophora leprosa (Morton)													
Graciliala calcaris (Wade)													
decemlirata Conrad	1	1		1	1	2	2						
Drepanochilus quadriliratus (Wade)													
triliratus Stephenson													
sp.													
Arrhoges (*Latiala*) *lobata* (Wade)													
(*Latiala*) cf. *A. lobata* (Wade)													
cf. *A. plenocosta* (Stephenson)													
sp.			2			1	1						
Helicaulax formosa Stephenson	17	2					9						
Anchura abrupta Conrad													
substriata Wade													
convexa Wade													
noakensis Stephenson?	1									7			
sp.													
? sp.						1	1						
? sp.													
Pterocerella tippana (Conrad)							15						
poinsettiformis Stephenson													
pontotocensis Sohl, n. sp.													
sp. A							1						
sp. B													
Colombellina? *americana* Wade													
Pugnellus (*Pugnellus*) *densatus* Conrad	6			4	3	7	48						
(*Pugnellus*) *densatus* Conrad?													
goldmani Gardner	3						2						
(*Gymnarus*) *abnormalis* Wade													
sp.													
Gyrodes supraplicatus (Conrad)	9			1			11		1				
major Wade													
americanus (Wade)													
spillmani Gabb	1			1			5					1	
abyssinus (Morton)													
petrosus (Morton)													
sp.													
Polinices kummeli Sohl, n. sp.	7						4						
Euspira rectilabrum (Conrad)	11	18		2	1	3	38	3					
cf. *E. rectilabrum* (Conrad)													
Amaurellina stephensoni (Wade)													
Pseudamaura lirata (Wade)													
Ampullella umbilica (Wade)													
"*Ampullina*" *potens* Wade													
Ampullellinae indet.													
Charonia? *univaricosum* (Wade)													
Plesiotriton cretaceus Sohl, n. sp.													
Tintorium pagodiforme Sohl, n. sp.													
Mathilda (*Mathilda*) *ripleyana* Wade													
(*Mathilda*?) *cedarensis* Stephenson													
(*Echinimathilda*) *corona* Sohl, n. sp.							1						
unionensis Sohl, n. sp.													
Promathilda (*Clathrobaculus*) *cretacea* (Wade)													
(*Clathrobaculus*) *parvula* Sohl, n. sp.													
Gegania parabella (Wade)													
bella prodiga Sohl, n. subsp.													
sp.													
Acrocoelum? *cereum* Sohl, n. sp.													

Prairie Bluff formation

Species	Tippah County, Miss.	Union County, Miss.			Pontotoc County, Miss.					Chickasaw County, Miss.										Clay County, Miss.								Oktibbeha County, Miss.									Noxubee County, Miss.				Kemper County, Miss.			
	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
Archeogastropoda:																																												
Weeksia amplificata (Wade)																																												
deplanata (Johnson)		2			1				1										2																3				1			1		
Acmaea galea Sohl, n. sp.																																												
Calliomphalus (*Calliomphalus*) *americanus* Wade																																												
(*C.*) *nudus* Sohl, n. sp.																																												
sp.																																												
(*Planolateralus*) *argenteus* Wade																																												
argenteus spinosus Sohl, n. subsp.																																												
decoris Sohl, n. sp.																																												
conanti Sohl, n. sp.																																												
angustus Sohl, n. sp.																																												
sp.																			2											2														
Urceolabrum tuberculatum Wade																																												
tuberculatum callistum Harbison																																												
sp.																																												
Teinostoma prenanum Wade																																												
cf. *T. prenanum* Wade																																												
clara Sohl, n. sp.																																												
Neritina? *densata* Conrad																																												
? sp.					2										1																													
Damesia keownvillensis Sohl, n. sp.																																												
Mesogastropoda:																																												
Pseudomalaxis ripleyana Wade																																												
pilsbryi Harbison																																												
pateriformis Stephenson																																												
? *stantoni* Sohl, n. sp.																																												
sp. A																																												
sp. B																																												
Margaritella pumila Stephenson																																												
? sp.																																												
Laxispira lumbricalis Gabb															1				2													1						1						
Turritella trilira Conrad		3			1														6	1			1												1	1								
bilira Stephenson					1			1									1																											
macnairyensis Wade																																												
tippana Conrad			3				1												3																	1								
vertebroides Morton	1	4	4																19	7		4	2							3	1				1	1			1			2		
howelli Harbison																																												
hilgardi Sohl, n. sp.																																												
chalybeatensis Sohl, n. sp.																																												
cf. *T. encrinoides* Morton					8														31	1	4							2		6	1					1								
sp.		16			18	4								2				2	184	13	2	5					1	2	1	38	9	2			13	42		4		8	5	16		
Trobus buboanus Stephenson																																												
corona (Conrad)																																												
Melanatria? *cretacea* Wade																																												
? sp.																																												
Nudivagus simplicus Wade																																												
sp.																																												
Dircella spillmani (Conrad)																																												
Cerithium weeksi Wade																																												
nodoliratum Wade																																												
semirugatum Wade																																												
sp.																	1																											
Seila meeki (Wade)																																												
quadrilirata (Wade)																																												
sp.																																												
Lemniscolittorina berryi (Wade)																																												
Anteglossia tennesseensis (Wade)																																												
subornata (Wade)																																												
sp.																																												
Turboella costata (Wade)																																												
tallahatchiensis Sohl, n. sp.																																												
crebricostata Sohl, n. sp.																																												
Trichotropis imperfecta Wade																																												
mississippiensis Sohl, n. sp.																																												
Astandes densatus Wade																																												
Turbinopsis hilgardi Conrad																																												
? cf. *T. curta* Whitfield																			1									1		1						6				1				
? cf. *T. depressa* Gabb					1														1				1																			1		
? sp.																														1														
Capulus monroei Sohl, n. sp.																																												
corrugatus Wade																																												
cuthandensis Stephenson?																																			1							1		
Thylacus cretaceus Conrad																																												
Crucibulum? sp.																																												
Xenophora leprosa (Morton)																																												
Graciliala calcaris (Wade)					13										11				17	1	1		1	1		1		1	1	2					5	8		1	1			1		
decemlirata Conrad																																												
Drepanochilus quadriliratus (Wade)																																												
triliratus Stephenson																																												
sp.																																												
Arrhoges (*Latiala*) *lobata* (Wade)																																								2				
(*Latiala*) cf. *A. lobata* (Wade)																			3																1									
cf. *A. plenocosta* (Stephenson)								1									7																											
sp.																																												
Helicaulax formosa Stephenson																																												
Anchura abrupta Conrad																																												
substriata Wade																																												
convexa Wade																																												
noakensis Stephenson?															1		(?)		34	1								1		2					2		2	2	2		1	4		
sp.																			14	1			1							3	2				2	2		1				2		
? sp.																1			26	2										10	1	1			8	1		1						
? sp.																																												
Pterocerella tippana (Conrad)																																												
poinsettiformis Stephenson																																												
pontotocensis Sohl, n. sp.					1														1																									
sp. A																																												
sp. B														1					2				1								1													
Colombellina? *americana* Wade																																												
Pugnellus (*Pugnellus*) *densatus* Conrad																																												
(*Pugnellus*) *densatus* Conrad?					5									1	1				11			1	2																					
goldmani Gardner																																												
(*Gymnarus*) *abnormalis* Wade																																												
sp.					4									1					8				1							1		1			1									
Gyrodes supraplicatus (Conrad)																																												
major Wade																																												
americanus (Wade)																																												
spillmani Gabb			1		1								1	1					3			1									1				1									
abyssinus (Morton)					3	1							4		1	1			34	1							2	2	1	3	2	2			2		2	11	20	12	1	33	1	1
petrosus (Morton)			1		2									11		1		2	33	2	3	5	1			2		1	9	5	1	1			21	34		3	16	4	1	11		
sp.	1																																											
Polinices kummeli Sohl, n. sp.																																												
Euspira rectilabrum (Conrad)																																												
cf. *E. rectilabrum* (Conrad)		1	1												1				4	1			1					1		1	1	1	1									1		
Amaurellina stephensoni (Wade)																																												
Pseudamaura lirata (Wade)																																												
Ampullella umbilica (Wade)																																												
"*Ampullina*" *potens* Wade																																												
Ampullellinae indet.															3																				8			3						
Charonia? *univaricosum* (Wade)																																												
Plesiotriton cretaceus Sohl, n. sp.																																												
Tintorium pagodiforme Sohl, n. sp.																																												
Mathilda (*Mathilda*) *ripleyana* Wade																																												
(*Mathilda*?) *cedarensis* Stephenson																																												
(*Echinimathilda*) *corona* Sohl, n. sp.																																												
unionensis Sohl, n. sp.																																												
Promathilda (*Clathrobaculus*) *cretacea* (Wade)																																												
(*Clathrobaculus*) *parvula* Sohl, n. sp.																																												
Gegania parabella (Wade)																																												
bella prodiga Sohl, n. subsp.																																												
sp.																			1																1									
Acrocoelum? *cereum* Sohl, n. sp.																																												