

Figure 4—Pleistocene and Pliocene local faunas with climatic data.

AGE	FAUNAS	CLIMATES AND SIGNIFICANT GEOLOGICAL DATA	COOL - SUMMER ELEMENTS	MILD - WINTER ELEMENTS		
0	RECENT	Living	Mesothermal, semiarid, continental	Many formerly sympatric species, now allopatric	Sigmodon hispidus	
		erosional unconformity				
	WISCONSINAN	Robert lf. (11,300 yrs.) Bar M. Loc. 1 lf. (22,000 yrs.)				
		Jones Ranch lf. (26,700 yrs.)	Microthermal, subhumid, continental	Ambystoma, neotenic Sorex cinereus Citeilus richardsoni Microtus pennsylvanicus		none
	WISCONSINAN	Jinglebob lf.	Mesothermal, humid, maritime	Sorex cinereus Microtus pennsylvanicus	Ambystoma, metamorphosed Terrapene llanensis Oryzomys fossilis	
		erosional unconformity				
.10	SANGAMONIAN	caliche bed Semiarid				
		Cragin Quarry lf.	Mesothermal, subhumid, maritime	Geochelone Terrapene llanensis Holbrookia texana	Crotaphytus collaris Phrynosoma modestum Notiosorex crawfordi Dasypterus golliheri	
.25	ILLINOISAN	Mt. Scott lf.	Microthermal, subhumid, maritime?	Sorex arcticus S. cinereus S. palustris Microtus pennsylvanicus	Terrapene llanensis Blarina b. carolinensis Oryzomys fossilis	
		Butler Springs lf.	Microthermal, subhumid, continental?	Perca flavescens Ambystoma, neotenic Sorex cinereus Microtus pennsylvanicus		none
.30		*Berends, Adams lf.				
		*Doby Springs lf.				
.34	erosional unconformity					
.35	YARMOUTHIAN	*Rezabek lf.	HIATUS SW KANSAS			
.48		*Kanopolis lf.				
.60	KANSAN	Pearlette ash bed (type O)				
		Cudahy lf.	Microthermal, subhumid, maritime	Ambystoma, neotenic Sorex cinereus S. lacustris S. megapalustris	Microsorex pratensis Synaptomys (Mictomys) Microtus paroperarius	none
1.20	AFTONIAN	Volcanic ash				

1.32	NEBRASKAN	*Wathena lf.	HIATUS SW KANSAS		
		Nash lf.			
		Borcher's lf.	Mesothermal, subhumid, maritime	none	Ambystoma, metamorphosed Geochelone Sigmodon hilli Spilogale cf. S. ambarvalis
1.78		END OF LATE BLANCAN IN PLAINS			
2.0		Borcher's ash (type B)			
		Seger lf.	Geochelone, large sp.		
		erosional unconformity			
2.26		*White Rock lf.	HIATUS SW KANSAS		
2.64		*Dixon lf.			
2.78		Sanders lf.	Mesothermal, subhumid, maritime	Some warm-temperate and subtropical	Ambystoma, metamorphosed Sigmodon intermedius Bensonmys meadensis Pliolemmus antiquus
		caliche bed - Semiarid		-----	
		Deer Park lf.	Mesothermal, maritime	elements from Rexroad fauna absent	Geochelone Pliopotamys meadensis Pliolemmus antiquus
		Unnamed		Geochelone	Gopherus
2.84		Spring Creek lf.			
3.08	PLIOCENE	*Sand Point lf.	HIATUS SW KANSAS		
		*Hagerman lf.			
		erosional unconformity			
3.50		Rexroad Loc. 2 lf.			
		Bender lf.	Mesothermal, subhumid, maritime	none	(Mammalian fauna not published)
		caliche bed - Semiarid			
		Rexroad lf.	Mesothermal, subhumid, maritime	none	Geochelone rexroadensis Notiosorex jacksoni Baomys sp. Sigmodon intermedius
					Nerterogeomys minor Bassariscus casei

*Fauna missing or not found in southwest Kansas.
Note: Ages approximate except C14 dates and fission track dates on volcanic ash.
Ages shown in millions of years.