

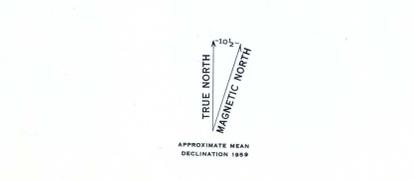
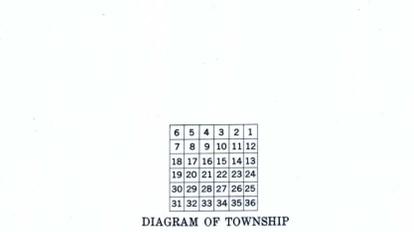
EXPLANATION

Qa	Alluvium		
Qt	Terrace deposits		
Qs	Sandbar formations		
Qt	Glacial till		
Qo	Glacial outwash		
Qg	Glaciolacustrine deposits		

Chase group	Qa	Schroyer limestone member	Wroford limestone
	Qt	Havensville shale member	
	Qs	Threemile limestone member	Speiser shale
			Funston limestone
			Blue Rapids shale
			Cresse limestone
			Early Creek shale
Council Grove group	Qa	Middleburg limestone member	Bader limestone
	Qt	Hooser shale member	
	Qs	Elms limestone member	Stearns shale
		Morrill limestone member	Beattie limestone
		Florena shale member	
		Cottonwood limestone member	Eskridge shale
Adams group	Qa	Neva limestone member	
	Qt	Salem Point shale member	
	Qs	Burr limestone member	Grenola limestone
		Legion shale member	
		Salyards limestone member	Roca shale
		Howe limestone member	Red Eagle limestone
		Bennett shale member	
		Glenrock limestone member	Johnson shale
Wakarusa group	Qa	Long Creek limestone member	
	Qt	Hughes Creek shale member	Foraker limestone
	Qs	Americus limestone member	Falls City limestone
		Hawxy shale member	Onaga shale
		Aspinwall limestone member	
		Towle shale member	
		Brownville limestone member	
		Pony Creek shale member	Wood Siding formation
		Grayhorse limestone member	
		Plumb shale member	
		Nebraska City limestone member	
		French Creek shale member	
		Jim Creek limestone member	Root shale
		Friedrich shale member	
		Dover limestone member	Stotler limestone
			Pillsbury shale
		Maple Hill limestone member	
		Wanego shale member	Zeandale limestone
		Tarkio limestone member	
		Elmont limestone member	Willard shale
		Harveyville shale member	Emporia limestone
		Reading limestone member	
		Wakarusa limestone member	Auburn shale
		Soldier Creek shale member	Bern limestone
		Burlingame limestone member	
		Rals limestone member	
		Silver Lake shale member	Scranton shale
		Cedar Vale shale member	
		White Cloud shale member	Howard limestone
			Severy shale
			Topeka limestone

* Note: The Janesville shale and its members are not exposed in the county.

- Contact
Dashed where approximately located
Fault, approximately located
u, upthrown side; d, downthrown side
Concealed fault
- Operated pit or quarry
Prospect pit or quarry
- fa Fine aggregate
ma Mixed aggregate
ca Coarse aggregate
mf Mineral filler
cg Chert gravel
ls Limestone
ma Limestone
- Inclined letters indicate material not tested
ls Limestone
- Vertical letters indicate materials listed in table 1, and their sample number



Base from maps by the State Highway Commission of Kansas. Drainage from aerial photographs by U. S. Department of Agriculture

MAP SHOWING CONSTRUCTION MATERIALS AND GEOLOGY OF NEMAHA COUNTY, KANSAS

Scale 1:63 360
0 1 2 3 4 5 Miles