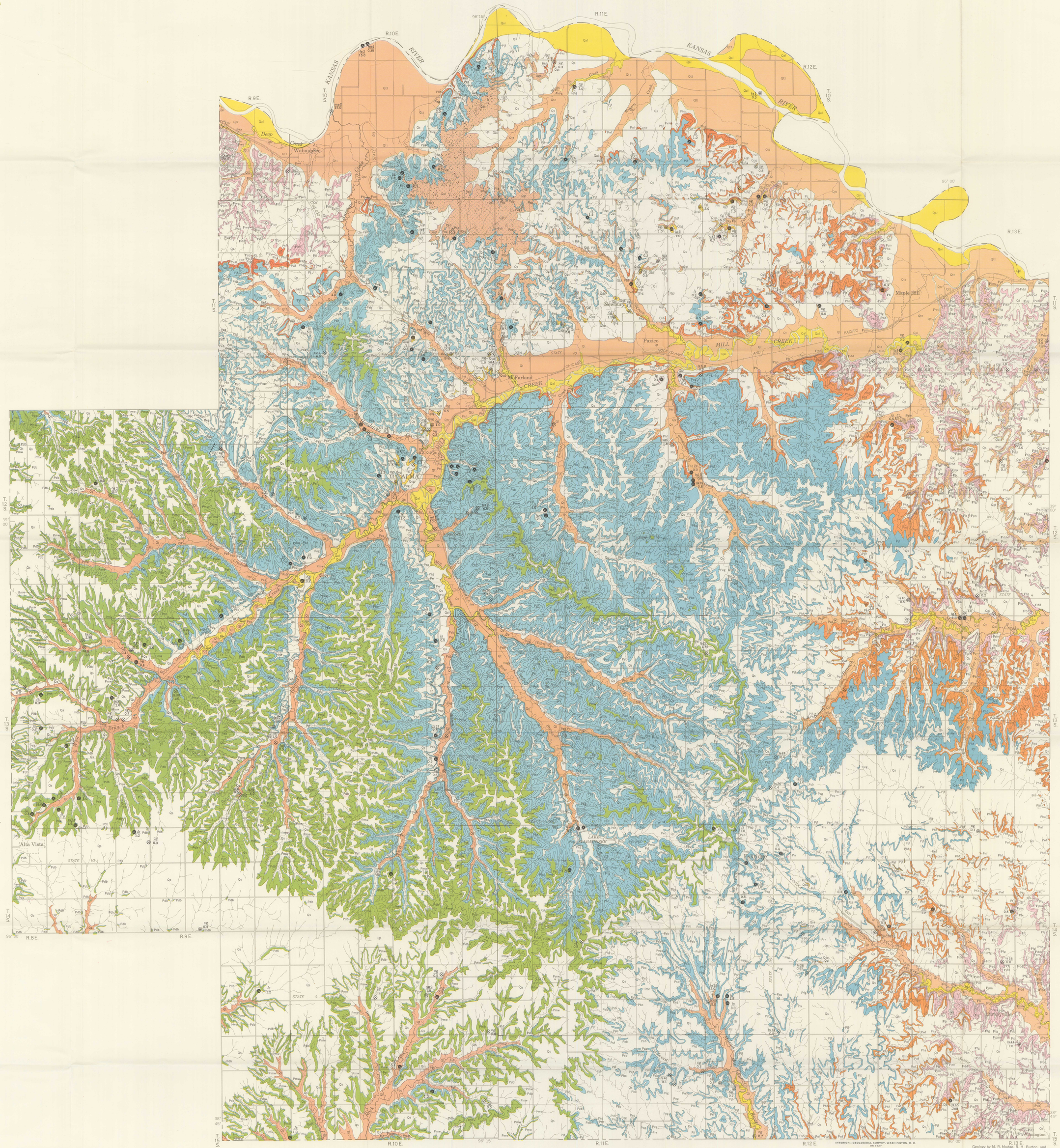
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED AS PART OF A PROGRAM OF THE DEPARTMENT OF THE INTERIOR
FOR THE DEVELOPMENT OF THE MISSOURI RIVER BASIN

BULLETIN 1068 PLATE 2

MAP SHOWING CONSTRUCTION MATERIALS AND GEOLOGY OF WABAUNSEE COUNTY, KANSAS



EXPLANATION

- Qal — Alluvium
- Qtr — Travertine
- Qt2 — Newman terrace
- Qt — Undifferentiated terrace
- Qt1 — Buck Creek terrace
- Qs — Sanborn formation
- Qsa — Sappa formation
- Qgt — Glacial till
- Qgi — Grand Island formation
- Qic — Glacial ice-contact deposits
- Qog — Older gravels

May contain upper Pliocene deposits

Pleistocene and Recent — QUATERNARY

	MEMBER	FORMATION	
Chase group	Holmesville shale member	Doyle shale	PERMIAN
Pdb	Fort Riley limestone member	Barneston limestone	
	Oketo shale member		
	Florence limestone member		
Pmw	Blue Springs shale member	Matfield shale	
	Kinney limestone member		
	Wymore shale member		
	Schroyer limestone member	Wreford limestone	
	Havensville shale member		
	Threemile limestone member		
Council Grove group		Speiser shale	
Pef		Funston limestone	
		Blue Rapids shale	
Pbc		Crouse limestone	
		Easly Creek shale	
Peb	Middleburg limestone member	Bader limestone	
	Hooser shale member		
	Eiss limestone member		
		Stearns shale	
Psb	Morrill limestone member	Beattie limestone	
	Florena shale member		
	Cottonwood limestone member		
		Eskridge shale	
Peg	Neva limestone member	Grenola limestone	
	Salem Point shale member		
	Burr limestone member		
	Legion shale member		
	Sallyards limestone member		
		Roca shale	
Prr	Howe limestone member	Red Eagle limestone	
	Bennett shale member		
	Glenrock limestone member		
		Johnson shale	
Pif	Long Creek limestone member	Foraker limestone	
	Hughes Creek shale member		
	Americus limestone member		
Admire group	Hamlin shale member	Janesville shale	
Phf	Five Point limestone member		
	West Branch shale member	Falls City limestone	
Pef			
Pha	Hawxby shale member	Onaga shale	
	Aspinwall limestone member		
Pfc	Towle shale member		
Wabaunsee group	Brownville limestone member	Wood Siding formation	PENNSYLVANIAN CARBONIFEROUS
Pb	Pony Creek shale member		
	Grayhorse limestone member		
Pon	Plumb shale member		
	Nebraska City limestone member		
	French Creek shale member	Root shale	
Pfj	Jim Creek limestone member		
	Friedrich shale member		
Pfg	Grandhaven limestone member		
	Dry shale member	Stotler limestone	
Pdd	Dover limestone member		
		Pillsbury shale	
Ppm	Maple Hill limestone member	Zeandale limestone	
	Wamego shale member		
Pwt	Tarkio limestone member		
		Willard shale	
Pwe	Elmont limestone member	Emporia limestone	
	Harveyville shale member		
Phr	Reading limestone member		
		Auburn shale	
Pa			

Glacial boulders

Contact

Fault, dotted where concealed. U, upthrown side; D, downthrown side

Operated pit or quarry

Prospect pit or quarry

fa — Fine aggregate

ma — Mixed aggregate

ca — Coarse aggregate

lg — Limestone gravel

cg — Chert gravel

ls — Limestone

sh — Shale

Js — Inclined letters indicate material not tested

ls34 — Vertical letters indicate materials and sample numbers listed in table 1

1.8 — Quantity of material available, in units of 10,000 cubic yards

10° — TRUE NORTH — MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION 1950

6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

DIAGRAM OF TOWNSHIP

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

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.
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Geology by M. R. Mudge, R. H. Burton, and State Highway Commission of Kansas, Geological Section, 1948

1 0 5 Miles