Table 5—*Correlation of data from 53 drilled wells in the Mississippian Plateau region, Kentucky*

Any two items of data may be correlated by locating the number in the small rectangle formed by the intersection of the column and row of the two items of data. Each such number is the percentage of wells in which the two items of data occur simultaneously. For example: of the 14 wells that occur in the upland, 85.6 percent occur in Mississippian rocks of Chester age and the remaining 14.4 percent occur in other aquifers.

Each large rectangle enclosed by heavy lines includes data on all wells under consideration.

If the sum of all numbers in each row enclosed by heavy lines is not equal to 100 percent, the remaining percentage is an unknown.

The total number of wells for each column and row is at the base of each column and to the left of each row, respectively.

[Data furnished by Rural Electrification Administration, Bowling Green, Ky.]

	Topography				Depth of hole (feet below land surface)							Water level (feet below land surface)					Quality (reported)		Type of material		Adequacy for pump			Age of aquifer			Yield (gpm)				
	Upland	Hillside	Karst	Bottoms	<25	25–50	50–75	75–100	100–150	150–200	200–300	Unknown	<25	25–50	50–100	>100	Sulfur	Unsatisfactory	Limestone	Sandstone	Adequate	Inadequate	Unknown	Pennsylvanian	Mississippian Chester age	Mississippian Meramec age	<$\frac{1}{4}$	$\frac{1}{4}$–$\frac{1}{2}$	$\frac{1}{2}$–$2\frac{1}{2}$	>$2\frac{1}{2}$	Unknown
Topography: Upland	14				-	42.8	14.3	21.4	21.4	-	-	-	28.6	50.0	21.4	-	-	-	14.3	85.6	50.0	42.8	7.2	14.3	85.6	-	21.4	35.7	14.3	21.4	7.2
Topography: Hillside		9			-	44.5	22.2	22.2	11.1	-	-	-	22.2	55.5	11.1	11.1	11.1	-	11.1	88.9	22.2	55.5	22.2	55.5	44.5	-	22.2	33.3	-	22.2	22.2
Topography: Karst			29		-	3.4	44.8	27.6	17.2	-	6.9	13.8	3.4	44.8	34.3	3.4	20.7	6.9	100	-	55.0	41.7	3.4	-	-	100	27.6	17.3	17.3	31.0	6.9
Topography: Bottoms				1	-	-	100	-	-	-	-	-	100	-	-	-	-	-	-	100	-	100	-	100	-	-	-	100	-	-	-
Depth of hole (feet below land surface): <25					0							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depth of hole (feet below land surface): 25–50						11						-	54.5	45.5	-	-	-	-	90.9	9.1	36.3	45.5	18.2	27.2	63.5	9.1	18.2	45.5	-	18.2	18.2
Depth of hole (feet below land surface): 50–75							18					11.1	11.1	50.0	27.8	-	11.1	5.6	77.8	22.2	50.0	44.5	5.5	16.7	11.1	72.3	22.2	22.2	27.8	22.2	5.6
Depth of hole (feet below land surface): 75–100								13				7.7	-	61.5	30.8	-	7.7	-	69.2	30.8	53.8	46.2	-	7.7	30.8	61.5	23.0	30.8	-	38.4	7.7
Depth of hole (feet below land surface): 100–150									9			-	-	22.2	55.6	22.2	44.5	11.1	66.7	33.3	33.3	55.6	11.1	11.1	33.3	55.6	44.5	11.1	22.2	11.1	11.1
Depth of hole (feet below land surface): 150–200										0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depth of hole (feet below land surface): 200–300											2	50.0	-	50.0	-	-	-	-	100	-	100	-	-	-	-	100	-	-	-	100	-
Water level (feet below land surface): Unknown												4					25.0	25.0	100	-	75.0	25.0	-	-	-	100	25.0	-	-	75.0	-
Water level (feet below land surface): <25													8				-	-	25.0	75.0	50.0	50.0	-	37.5	50.0	12.5	12.5	50.0	-	37.5	-
Water level (feet below land surface): 25–50														25			4.0	-	60.0	40.0	48.0	40.0	12.0	12.0	36.0	52.0	20.0	28.0	16.0	20.0	16.0
Water level (feet below land surface): 50–100															14		14.3	7.1	71.4	28.6	35.7	57.2	7.1	7.1	21.4	71.4	35.7	21.4	14.3	21.4	7.1
Water level (feet below land surface): >100																2	100	-	50.0	50.0	50.0	50.0	-	50.0	-	50.0	50.0	-	50.0	-	-
Quality (reported): Sulfur																	7		85.8	14.2	28.6	71.4	-	14.2	-	85.8	57.2	-	28.6	14.2	-
Quality (reported): Unsatisfactory																		2	100	-	-	100	-	-	-	100	100	-	-	-	-
Type of material: Limestone																			32		59.4	37.5	3.1	-	9.4	90.6	25.0	15.6	18.7	34.3	6.5
Type of material: Sandstone																				21	28.6	57.2	14.3	38.1	61.9	-	23.8	42.8	4.8	14.3	14.3
Adequacy for pump: Adequate																					25			4.0	32.0	64.0	-	16.0	28.0	56.0	-
Adequacy for pump: Inadequate																						24		25.0	25.0	50.0	54.2	41.7	-	-	4.1
Adequacy for pump: Unknown																							4	25.0	50.0	25,0	-	-	-	-	100
Age of aquifer: Pennsylvanian																								8			37.5	37.5	12.5	-	12.5
Age of aquifer: Mississippian (Chester)																									16		12.5	37.5	6.0	31.5	12.5
Age of aquifer: Mississippian (Meramec)																										29	27.6	17.2	17.2	31.0	6.9
Yield (gpm): <$\frac{1}{4}$																											13				
Yield (gpm): $\frac{1}{4}$–$\frac{1}{2}$																												14			
Yield (gpm): $\frac{1}{2}$–$2\frac{1}{2}$																													7		
Yield (gpm): >$2\frac{1}{2}$																														14	
Yield (gpm): Unknown																															5

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