

PJ-22

Table 2.--Physical and chemical properties of some rocks in Fayette County, Kentucky^{1/}

Map Unit ^{2/} (Geological Name)		Physical Tests			Chemical Analyses				Remarks
		Specific Gravity	Soundness ^{3/} % loss	L. A. ^{4/} % wear	CaCO ₃	MgCO ₃	Insoluble Residue	R ₂ O ₃ ^{5/}	
6 (Oregon Formation)	average	2.71	2.1	28.5	62.9	30.3	4.7	1.5	
	range	2.67-2.73	1.0-3.6	21.3-32.7	57.3-71.7	22.7-34.7	2.6-6.0	0.8-3.2	
	no. samples	6	6	6	6	6	6	6	
7 (Tyrone Limestone)	average	2.72	3.9	26.1	84.9	8.65	4.7	.9	Three dolomite beds included. One shaly bed 60.1% soundness loss; average soundness loss closer to 1.1%.
	range	2.69-2.76	0-60.1	20.9-30.6	67.56-95.2	1.65-25.0	1.92-9.9	2.6-15.2	
	no. samples	22	22	22	22	22	22	22	
8 (Curdsville Limestone Member)	average	2.69	3.94	27.5	83.9	.95	9.67	3.02	
	range	2.66-2.70	0.6-8.7	23.1-32.6	73.8-87.6	.12-2.3	5.98-17.8	1.44-5.62	
	no. samples	7	7	7	6	6	6	6	

^{1/} Derived from Quarry Reports of Division of Materials, Kentucky Department of Highways.

^{2/} Samples from sound ledges of rock estimated to be suitable for concrete aggregate.
Samples for units 6 and 7 from Lambert Brothers Stone Company and Central Rock Company quarries; unit 8 from Lambert Brothers Stone Company quarry.

^{3/} Sodium sulfate method.

^{4/} Los Angeles Rattier Test for resistance to abrasion.

^{5/} Metal oxides, mostly iron oxides.

This document has not been edited or reviewed for conformity with U. S. Geological Survey standards or nomenclature.