

GREEN COUNTY

LABORATORY No. 51195—Mineral water received July 27, 1916, from D. B. Young, Gabe, Ky., from a well 5 feet deep, located in a narrow valley. The water comes from a small crevice in the rock and rises thru a 6-inch pipe at the rate of a gallon a minute. The well was discovered fifty years ago and was noted for its medicinal properties. The sample was clear with a little whitish sediment.

ANALYSIS.	Grains per gallon.	Gram per liter.
Total solids	208.4	3.575
Ignited solids	173.7	2.898

The mineral matter is mainly composed of magnesium sulfate, calcium sulfate and sodium chlorid. It contains, also, some calcium carbonate, magnesium carbonate, a little iron carbonate and traces of sodium bromid, potassium and lithium.

The water should have medicinal properties, especially on account of the magnesium sulfate and sodium bromid present.

LABORATORY No. 51284—Water received October 26, 1916, from Zollie Erwin, Thurlow, from a well 117 feet deep, 5 miles south of Greensburg, on the Greensburg and Edmonton Road, about one-half mile from Thurlow. Sample contained some brownish sediment.

ANALYSIS—One gallon contains 174.8 grains of mineral matter (2.998 grams per liter), composed of sodium chlorid, calcium sulfate, calcium carbonate and magnesium carbonate, with traces of iron, silica, potassium sulfate and lithium carbonate.

It is a saline sulfated water of moderate strength.

HARDIN COUNTY.

LABORATORY No. 50767—Spring water brought January 5, 1916, by David L. Ditto, Vine Grove, from a spring on Otter Creek, about two miles southwest of Vine Grove. Sample turbid, showing a little reddish-brown sediment.

ANALYSIS—One gallon contains 111.2 grains of solid matter (1.906 gram per liter), composed of calcium sulfate, magnesium sulfate, sodium chlorid, calcium carbonate, magnesium