THE EFFECT OF HEAT ON THE LIME REQUIREMENTS OF SOILS.  

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Brown and Johnson\(^2\) have found that the reaction of a soil by the Veitch method is changed by grinding the soil. Conner\(^3\) has found that keeping soils at different moisture contents alters their acidities. Heat is known to have an effect on the hydrogen ion concentration of a soil.\(^4\) In a previous paper\(^5\) the present writer reported a soil giving an acid reaction by the Hopkins potassium-nitrate method\(^6\) when, under field conditions, limestone fragments varying in size from a kernel of wheat to 2 cm. in diameter were present. The first step in

\(^1\) Contribution from the Purdue University Agricultural Experiment Station, Lafayette, Ind. Received for publication July 31, 1918.


