FIELD TESTS OF FERTILIZER ACTION ON SOIL ALDEHYDES.  

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INTRODUCTION.  

Aldehydes have been found to occur in a number of soils. Such soils are usually unproductive. Salicylic aldehyde was first found in a soil from Mt. Vernon, Va., and vanillin in a soil from Florida. Since then vanillin has frequently been isolated from soils. Field tests with vanillin and salicylic aldehyde were made in 1913, and the results show that they were harmful to cowpeas, string beans, and garden peas grown in an unproductive silty clay loam on the Arlington Farm, Va. This investigation has been extended and tests of these compounds were made again in 1914 and 1915 at Arlington Farm, and also on the Hagerstown loam at the Pennsylvania Ex-

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