THE EFFECTS OF PHOSPHATE ON EARLY GROWTH 
AND MATURITY.1

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This paper is intended to present briefly a summary of the data 
and observations on the effects of phosphate on early growth and 
maturity, with a few unpublished results secured on the fertilizer 
plots at the Pennsylvania Agricultural Experiment Station. 

Investigators who report the results of tests of fertilizers quite 
generally do not refer to the effects of phosphate except as to yield, 
and some who do report that phosphates promote early maturity 
give no idea as to how great this effect is. The author has attempted 
to review briefly the references in published material to these effects 
of phosphates; but does not claim that all the important references 
to this subject are mentioned.

1 Contribution from the Department of Agronomy, Pennsylvania State Col-
lege, State College, Pa. Read at the meeting of the society held at Washington, 
D. C., November 20, 1922.
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