THE JOURNAL OF

AGRICULTURAL SCIENCE

EDITED BY

R. H. BIFFEN, M.A.

T. H. MIDDLETON, M.A.

A. D. HALL, M.A.

T. B. WOOD, M.A.

IN CONSULTATION WITH

W. BATESON, M.A., F.R.S. J. R. CAMPBELL, B.Sc. W. SOMERVILLE, M.A., D.Sc.

Volume I. 1905-6



CAMBRIDGE:

at the University Press.

LONDON: Cambridge University Press Warehouse, Fetter Lane

(C. F. CLAY, Manager)

and H. K. Lewis, Gower Street.

NEW YORK: The Macmillan Company.

LEIPSIC: F. A. Brockhaus.

BOMBAY AND CALCUTTA: Macmillan and Co., Ltd.

Entered at the New York Post Office as Second Class matter.

[All Rights reserved]

Cambridge:

PRINTED BY JOHN CLAY, M.A. AT THE UNIVERSITY PRESS.

CONTENTS.

		/ 		
Part.	1	(January,	1905	١.
I 101 0		(Ourrant),	1000	,,

	PAGE
EDITORIAL	I
BIFFEN, R. H. Mendel's Laws of Inheritance and Wheat Breeding. (Plate I.).	4
Howard, Albert. The Influence of Pollination on the Development of the Hop. (One figure in text and Plate II.).	49
GOLDING, JOHN. The Importance of the removal of the Products of Growth in the Assimilation of Nitrogen by the Organisms of the Root Nodules of Leguminous Plants	59
HALL, A. D. The Analysis of the Soil by means of the Plant .	65
COLLINS, S. HOARE. Variation in the Chemical Composition of the Swede	89
DYER, BERNARD. Town Stable Manure: its Chemical Composition and the changes it undergoes on keeping	108
Wood, T. B., and Berry, R. A. Soil Analysis as a guide to the Manurial Treatment of Poor Pastures	114
MIDDLETON, T. H. The Improvement of Poor Pastures	122
Note. Calcium Cyanamide	146
Part 2 (May, 1905).	
CROWTHER, CHARLES. Variation in the Composition of Cows' Milk.	149
Wood, T. B., and Berry, R. A. Variation in the Chemical Composition of Mangels. (Eight figures in text.).	176
DYMOND, T. S., HUGHES, F., and JUPE, C. W. C. The Influence of Sulphates as Manure upon the Yield and Feeding Value of	
Crops	217
CAVE, T. W. "Black-Quarter" in Sheep	230
HALL, A. D. On the Accumulation of Fertility by Land allowed to run wild	241
BIFFEN, R. H. The Inheritance of Sterility in the Barleys. (One	
figure in text.)	250
HALL, A. D. Variation in Composition of the Swede	258