

**AN AGRICULTURAL NOTE-BOOK,
TO ASSIST CANDIDATES IN
PREPARING FOR EXAMINATIONS
IN AGRICULTURE**

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An Agricultural Note-Book, to Assist Candidates in Preparing for Examinations in Agriculture
by William Charles Taylor

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WILLIAM CHARLES TAYLOR

**AN AGRICULTURAL NOTE-BOOK,
TO ASSIST CANDIDATES IN
PREPARING FOR EXAMINATIONS
IN AGRICULTURE**

AN
AGRICULTURAL NOTE-BOOK

TO ASSIST CANDIDATES IN
PREPARING FOR THE SCIENCE AND ART AND OTHER
EXAMINATIONS IN AGRICULTURE

BY
WILLIAM CHARLES TAYLOR

PRINCIPAL OF THE AGRICULTURAL COLLEGE
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PREFACE.

THE contents of the following pages have been found useful to all my pupils, especially to those who have been successful in gaining scholarships of the Royal Agricultural Society of England, bursaries of the Highland Agricultural Society of Scotland, and certificates and prizes from the Science and Art Department; and it is at their earnest request that I have been persuaded to publish my notes, hoping they may prove as valuable in the future as they have done in the past.

As a teacher, I have always found it convenient for the memory to analyse the various scientific subjects, grouping under each head the several particulars respecting it, and to express these in as terse a form as possible. This plan I have followed in this little work.

W. C. TAYLOR.



Figure 1. Relationship between the number of species (S) and the number of individuals (N) for 10 different species. The regression line is labeled $R = 0.98$.

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THE
AGRICULTURAL NOTE-BOOK.

PART I.

THE SCIENCE OF AGRICULTURE.

DEFINITIONS AND TERMS.

Its **Definition**.—Scientific truths taught by the practice of agriculture. The practice of the farm teaching the science. The laws of agricultural science best learnt when thus taught, and lead to improvements in the application of science to farm practice.

Its **Sister Sciences**.—Chemistry, botany, geology, physiology. Experience on the farm, like the rudder to the ship. Scientific knowledge, like the compass.

Its **Character** in the soil, as temper, will, and disposition. These to be noted; success of farmer depending much on his knowledge of above. *Hungry, sick, grateful, obstinate, kindly, tender, &c.*

It has a history of its own, which has been revealed by the results of practical experiments.

TERMS DESCRIBING SOILS.

1. **Hungry**.—Constantly in want of food. Sands and gravels have no power of holding manures; an absence of double silicates and ferric oxide; short supply of organic matter improved by adding clay, where practicable, and vegetable matter.

2. **Tough and Obstinate**.—Contain a great quantity of clay. Improved by drainage and autumn ploughing, and application of rough manure.