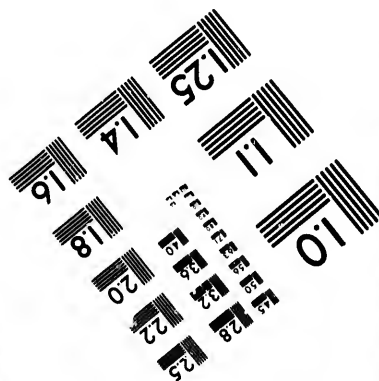
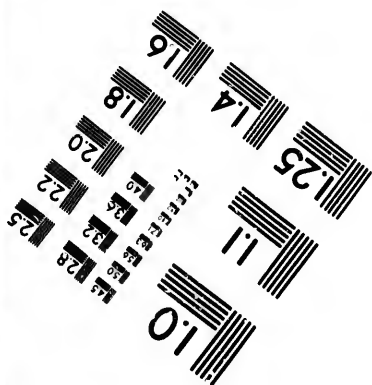
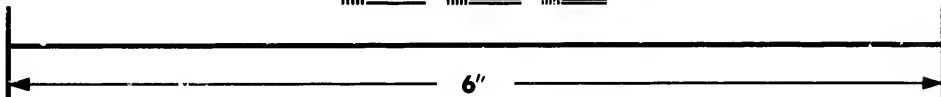
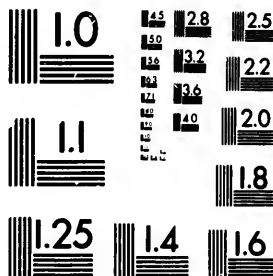


**IMAGE EVALUATION  
TEST TARGET (MT-3)**



**Photographic  
Sciences  
Corporation**

23 WEST MAIN STREET  
WEBSTER, N.Y. 14580  
(716) 872-4503

24  
28  
32  
25  
23  
20

**CIHM/ICMH  
Microfiche  
Series.**

**CIHM/ICMH  
Collection de  
microfiches.**



Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques

01

**© 1987**

Technical and Bibliographic Notes/Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

- Coloured covers/  
Couverture de couleur
- Covers damaged/  
Couverture endommagée
- Covers restored and/or laminated/  
Couverture restaurée et/ou pelliculée
- Cover title missing/  
Le titre de couverture manque
- Coloured maps/  
Cartes géographiques en couleur
- Coloured ink (i.e. other than blue or black)/  
Encre de couleur (i.e. autre que bleue ou noire)
- Coloured plates and/or illustrations/  
Planches et/ou illustrations en couleur
- Bound with other material/  
Relié avec d'autres documents
- Tight binding may cause shadows or distortion along interior margin/  
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure
- Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/  
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.
- Additional comments:/  
Commentaires supplémentaires:  
[Printed ephemera] 1 sheet, [4] p.

- Coloured pages/  
Pages de couleur
- Pages damaged/  
Pages endommagées
- Pages restored and/or laminated/  
Pages restaurées et/ou pelliculées
- Pages discoloured, stained or foxed/  
Pages décolorées, tachetées ou piquées
- Pages detached/  
Pages détachées
- Showthrough/  
Transparence
- Quality of print varies/  
Qualité inégale de l'impression
- Includes supplementary material/  
Comprend du matériel supplémentaire
- Only edition available/  
Seule édition disponible
- Pages wholly or partially obscured by errata slips, tissues, etc., have been refilmed to ensure the best possible image/  
Les pages totalement ou partiellement obscurcies par un feuillet d'errata, une pelure, etc., ont été filmées à nouveau de façon à obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below/  
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	12X	14X	16X	18X	20X	22X	24X	26X	28X	30X	32X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The copy filmed here has been reproduced thanks to the generosity of:

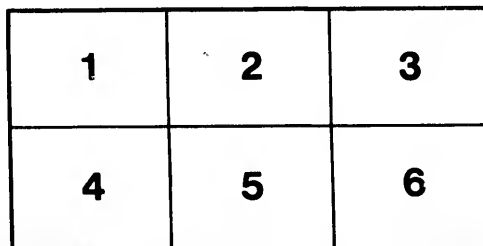
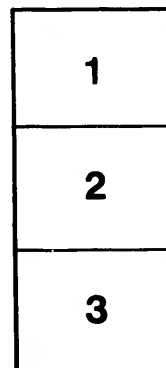
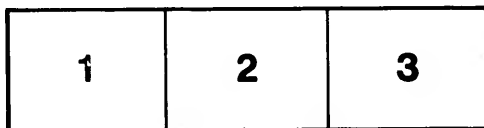
Metropolitan Toronto Library  
Canadian History Department

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shall contain the symbol  $\rightarrow$  (meaning "CONTINUED"), or the symbol  $\nabla$  (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:



L'exemplaire filmé fut reproduit grâce à la générosité de:

Metropolitan Toronto Library  
Canadian History Department

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivants apparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole  $\rightarrow$  signifie "A SUIVRE", le symbole  $\nabla$  signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.

Dedicated, by special permission, to the Hon. The Minister of Agriculture.  
And prefaced with a highly commendatory introduction by Prof. H. McCandless, Principal of the Ontario School of Agriculture, Guelph.

Now ready, and sold only by subscription,

# The Canadian Farmer's Manual of Agriculture :

THE PRINCIPLES AND PRACTICE OF MIXED HUSBANDRY AS ADAPTED TO CANADIAN SOILS AND CLIMATE.

COMPREHENSIVE :—

The Field; Produce of the Farm; Stock (Raising and Management); Manufactures of the Farm; Dairy; Diseases of Horses, Cattle, Sheep, Pigs; Farm Buildings; Modern Machinery and Implements; Counsel to the Immigrant-Settler, etc.,

*With Tables, and Forms of Simple Farm Account Keeping, prepared expressly for the Work.*

BY

CHARLES EDWARD WHITCOMBE,

Of the Royal Agricultural College, Cirencester, England; late Editor "The Canada Farmer," of the Agricultural Department "The Toronto Mail," &c., &c., and a Practical Farmer in the Province of Ontario.

One handsome Volume, Demy 8vo. 572 pages; Illustrated by nearly 100 wood cuts, embracing diagrams of Buildings, improved Barn constructions, interior economy of Stables, Ploughing, Draining, Illustrations of the latest and most approved Farm Implements, Machinery, etc., etc.

PRICE IN ROXBURGH BINDING, \$3.00  
(Leather Back, Cloth Sides.)

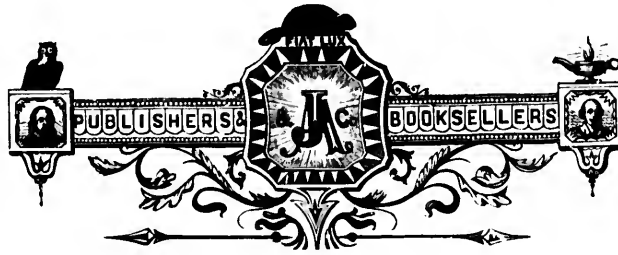
IN FULL COLOURED LEATHER, \$4.00.  
(Extra Strong.)

*This indispensable work furnishes a Compendium of Short Treatises on subjects of daily interest, valuable to every practical Farmer, comprising, among others, articles on the following subjects :—*

Soils.	Farm Implements.	Analysis of Foods.
Capital.	Granaries.	Land Surveying.
Farm Buildings.	Hot Beds.	Machinery.
Rotation of Crops.	Fences.	Weights and Measures.
Drainage.	Farm Gates.	Business Transactions.
Manuring.	Table of Soils, and Trees suitable therefor.	Auction Sales.
Seeds and Sowing.	Forests.	Farm Accounts.
Treatment of Burnt Lands.	Cattle Breeding.	Leases.
Sub-soiling.	Feeding. Fattening.	Taxes.
Root Crops.	Milk Cows.	Roads.
Field Crops.	Raising Calves	Relations of Landlord and Servant.
Pasture Lands.	Milk. Butter.	Do. Husband and Wife.
Ploughing.	Cheese.	Wills.
Seeds.	Horses. Sheep.	Farm Labour.
Flax Culture.	Lambs. Pigs.	Helps.
Peat.	Ordinary Diseases of Cattle, Horses, etc.	Advice to Emigrants.
Weeds.		etc. etc. etc.

Good, active, thorough and reliable Agents may apply at once for Territory and Sole Agency in the various Counties of the Dominion.

JAMES ADAM & CO., Publishers, 36 King Street East, Toronto, Ont.



AUTHOR'S PREFACE TO THE  
**Canadian Farmer's Manual of Agriculture.**

TO MY BROTHER FARMERS OF CANADA.

THE want of a Canadian agricultural standard work has long been felt by our class. I have endeavoured to step in and fill the breach by laying before you the accompanying work, entitled

**"The Canadian Farmer's Manual of Agriculture."**

We are all well aware that farming is no sinecure in the way of work in Canada. Stout hearts and willing hands must be employed to win a way to fortune on our farms. But these are not the only necessary qualifications,—wages are high and hands are scarce; to pay the one and create a substitute for the other, increased knowledge and intelligence must be the instruments. To make farming profitable we do not require larger holdings; but the one thing needful is larger yields per acre. To attain such a desirable increase of production, a more thorough knowledge of the laws of growth, and the requirements of plant-life becomes necessary. This knowledge, which is in itself indefinite, I have endeavoured partially to provide in the following pages. It cannot be that any single work, especially of the proportions of the present, can cover *all* the grounds necessary to be touched upon in a treatise on the Principles and Practice of Agriculture. This work is not and could not be exhaustive, but where it fails to give full information, I trust it may at least set the reader "upon the right track." The farmer in Canada must be essentially a practical man. The reader will find advanced no theories that have not stood the test of practice. It has been my constant aim to adapt every chapter to the present state of agriculture in Canada. Topics on which the opinion of eminent farmers are divided, are treated from every standpoint; where I have given a personal opinion upon these common subjects of debate, it has been based upon no hobby of my own, but upon a nature consideration of the several arguments advanced by eminent authorities, and governed by my own and my neighbours' practical experiences. For instance, in the chapter devoted to Barn-yard Manure, I have set down the arguments of the advocates of Raw or Rotten, Long or Short; and the subject being one on which I do not feel decided, I have refrained from the expression of any dogmatical opinion. Whilst this is not a work of compilation, the reader will find scattered through its pages many quotations, in the citation of which I have endeavoured to give due credit. These selections, appropriate to the several chapters, I have been careful to obtain, in the majority of cases, from such authorities as I am aware, are, or have been engaged in actual farming in Canada, or in those States of the Union in which the soils, climate and systems of husbandry are generally of a nature similar to those of our Dominion. The central object which this work is intended to keep in view, is the demonstration of how farming may be made to pay—by the general improvement of the soil, of seeds and of methods of cultivation. With these few prefatory remarks I leave "THE CANADIAN FARMER'S MANUAL" in the hands of my brethren of the plough. That it may prove useful to them and a welcome addition to the agriculturist's library, is the sincere wish of the Author.

C. E. W.

**The price of the work is placed so low that no Farmer can have a reasonable excuse for being without a copy.**

# INTRODUCTION BY PROF. H. McCANDLESS,

*Principal of the Ontario School of Agriculture.*

In all countries, and under all circumstances, the principles that underlie the art of husbandry are identical, but the practice through which they are brought to bear upon the cultivation of the soil must necessarily vary, owing to the modifications that are indispensable to bring that practice into harmony with surrounding circumstances.

Hence, while the scientific or theoretical literature of agriculture is of universal application, and may with success be imported, that relating to the practice of the farm should, to be of substantial use, be a home, and not a foreign production.

The present condition of Canadian agriculture demands the increase, if not the introduction, of such a literature, and it is gratifying to find that this want has a fair prospect of being supplied by the publication of such works as that which follows this introductory notice. In it the author has kept steadily in view the fundamental principles of true husbandry, and has, in harmony with them, endeavoured to sketch an agricultural practice in no way antagonistic to the modifying influences peculiar to the country.

This harmony is indispensable to successful farming, and unless it be established, no matter how suitable to a country a system of husbandry may otherwise be, it must inevitably fail to be successful. It may, under exceptional circumstances, appear for a time to be successful, but permanent it cannot be.

The system of cropping introduced by the early settlers of Canada affords a striking illustration of this fact; for a time it appeared to be everything that could be desired, but, owing to the fact that it was opposed to the fundamental principles of true husbandry, in depending upon the unaided resources of the soil, it was not, and could not be, permanent. Its success, even for a time, was due to the exceptional fertility of a rich virgin soil. Now, however, particularly in the older settlements, that exceptional fertility has been exhausted, and the skill of the true farmer becomes indispensable to successful cultivation.

Canadian agriculture is now in a transition state; it is gradually, but steadily, assuming the character of real husbandry, and to aid it in this transition is the mission that its agricultural literature has to perform.

Under such circumstances, no elaborate treatises on scientific or theoretical agriculture are demanded. What is wanted is a literature that will aid the farmers of the country in applying to the work of the field and farm-yard the principles upon which husbandry is based, and this has evidently been the aim of the author of the *Manual of Agriculture*.

In it the farmer will find no elaborate theories or intricate problems discussed, but a reliable book of reference that may be promptly consulted on almost any subject connected with his daily avocations.

To be of practical utility for this purpose, that reference must be easily made, and the convenient arrangement of the work makes it so.

Does the farmer require information on the building of a house or barn, on the treatment of his cattle in sickness, on the special cultivation of any particular crop, or, in short, upon any matter connected with the daily routine of farm management, he has but to open the index, and, without loss of time, refer to the page on which information upon that subject is given, and he will seldom refer to it and be disappointed.

Such a work must be of much value to the practical farmer, and it is to be hoped that thousands will avail themselves of the information it contains.

GUELPH, 28th May, 1874.

## NOTICES OF THE PRESS.

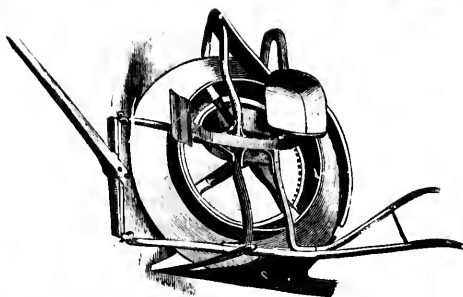
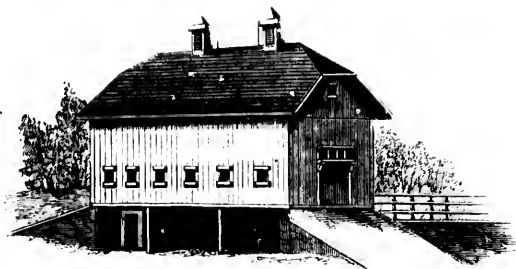
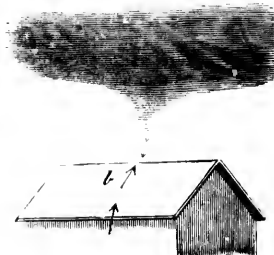
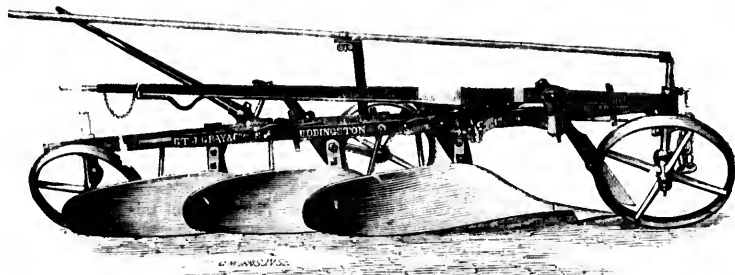
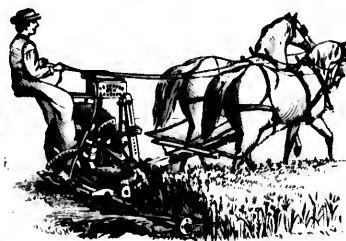
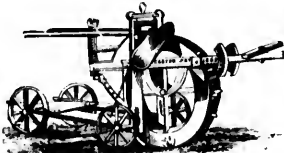
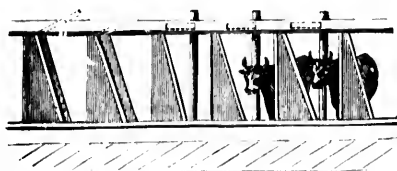


"This addition to agricultural literature professes to furnish the practical farmer with a reliable standard book of reference upon almost every subject connected with his daily avocations, and is conveniently arranged for easy access to any particular topic needed. The author appears to have spared no pains to render the work as perfect as possible, and upon those points in farm science where a diversity of opinion prevails, he has given fairly the latest views upon each subject without any attempt to attach an undue importance to his own particular ideas. In all cases the theories advanced are such as have stood the test of practice as applied to farming in Canada, which greatly enhances the value of the knowledge imparted. Throughout the work it has evidently been borne in mind that the present partially exhausted condition of the settled land in Canada, so different from the virgin soil filled by the early settlers, requires a proportionate advance in the knowledge of agricultural science on the part of the farmer to ensure skilful and successful cultivation, while to quote the author's own words, 'the central object which this work is intended to keep in view, is the demonstration of how farming may be made to pay—the general improvement of the soil, of seeds, and of methods of cultivation.' The Book contains 572 pages, is well illustrated with wood-cuts, handsomely bound, and is on the whole a most creditable publication."—*The Globe*.

For continuation of Press Notices see separate sheet.

Sole right of sale in territory allotted, guaranteed to appointed Agents for this work.

SPECIMENS OF ILLUSTRATIONS  
IN THE  
Canadian Farmer's Manual of Agriculture.



JAMES ADAM & CO., Publishers, 36 King Street East, Toronto, Ont.



