Prof. Wm. Saunders, the Director of the Experimental Farms of the Dominion of Canada, was born in Crediton, Devonshire, England, in 1536, and came to Canada with his family in 1848, when they settled in London, Ontario. Subsequently he became a chemist, and conducted a successful business from 1855 to 1886, chiefly in the manufacturing line, paying special calling. He assisted in the organization of the sociation ever since its organization. Ontario College of Pharmacy in 1871; was for many years a member of the council of that college; was made one of the examiners, and served two years as president. He joined the American Pharmaceutical Association in 1860, and was subsequently honored with many offices

Prof. Wm. Saunders,

Canada, public analyst for the western division of the Province of Ontario, in which capacity he rendered satisfactory service for four years. On the organization of the Medical Faculty of the Western University of London, Ont., in 1882, Mr. Saunders was appointed to the chair of Materia Medica, and on his retirement in 1886 to accept his present position, he was made an Emeritus Professor by the Faculty.

To gain the open-air exercise made necessary by close application to professional work, he became one of the early students of Canadian Botany and Entomology. In 1863 he published, in the Canadian Journal of Toronto, a list of the plants found growing in that part of Western Ontario in which He resided—the first catalogue published of the flora of that district. In 1863 he aided in the formation of the Entomological Society of Ontario, and afterwards was editor of the Canadian Entomologist for thirteen years, during which time he contributed many useful articles to its pages. In the early reports of the society there are many practical papers from his pen; he was elected president in 1883, and re-elected from year to year until 1886.

Fruit Growers' Association of Ontario, and in could be presentable for exhibition purposes 1882 was made president of that body—an office held until 1886. For ten or eleven years, begin- display was prepared, and as soon as the collection ning with 1868, he carried on farming near was arranged he returned to Canada, and, with London; and, in addition to ordinary agri- the help of the leading fruit growers of the cultural work, planted a large collection of fruit Dominion, got together and forwarded an exhibit trees and vines, govering sixty acres, which of several thousand plates of fine fresh fruit, afforded the opportunity of ascertaining which which was quite a revelation to the visiting varieties were most suitable to the climate of public as to the resources and climate of Canada. varieties of fenits and escal

organized in 1881 by

Saunders was selected as one of the original twenty Fellows which formed the Biological Section of that national scientific body, and in the volumes of its transactions several contributions of his will be found. At the last meeting he was elected president of this section. He has also long been a Fellow of the American Association for the Advancement of Science, in which he has held important offices. He has also been attention to the more scientific aspects of his an active member of the American Forestry As-

When the government of Ontario, in 1880, appointed a special commission to enquire into the condition of agriculture in that province, Mr. Saunders was appointed one of the thirteen selected for this work, and under his direction the information on fruit growing, forestry, inin that important body, and served as president sectivorous birds, insects, and bee keeping was in 1873. Several of his papers written for this collected and published. In 1885 he was requestassociation were republished in English journals, ed to undertake the preparation and arrangement one for Manitoba at Brandon; a farm for the and translated and published in Germany. In of the fruit display of Canada at the Indian and 1882 he was appointed by the Government of Colonial Exhibition, when the problem was for British Columbia at Agassiz. The work has

PROF. WM. SAUNDERS.

presented of so preserving the leading fruits of In 1869 he was appointed a director of the | the country of the growth of 1885 that they during the following summer. A satisfactory

this part of Ontario, and also gave facilities for | In 1885 he was requested by the Hon, John the observation of these insect pests which affect | Carling, Minister of Agriculture for the Dothe different sorts of from. In 1883 he published minion, to visit the Experimental Stations of a volume on "Insects Injurious to Fauits", pro- the United States and to make enquiries regardfusely illustrated, printed to Lippins of t & Co., ing experimental work in agriculture in Europe of Philadelphia, a work with is now in its and America. The information gained was embers and edition, and is a restrict to the truit bodied in a report presented early in the follow-growers of America. He could also a stressful log year, which also contained an outline of hybridit and has originated many true is not proposed experimental work in Canada. Followung his, an Act was introduced by the Minister

establishment of five Experimental Farms for the Dominion of Canada—a central farm to serve the purposes of Ontario and Quebec, and four branch farms, one in the Maritime Provinces, one in the Province of Manitoba, a third in the Northwest Territories, and a fourth in British Columbia. In October, 1886, Prof. Saunders was appointed as director of this important work. A site was chosen for the Central Experimental Farm adjacent to the capital, and after a careful survey of the country, during which the area from Halifax, N. S., to Victoria, B. C., was twice traversed every promising locality inspected, and the climatic conditions and agricultural needs of the several provinces studied, sites were recommended and subsequently chosen by the government. A suitable farm for experimental work in the Maritime Provinces was found at Nappan, Nova Scotia, near the boundary of New Brunswick; Northwest Territories at Indian Head, and one

since made rapid progress, and all the farms are now in active operation under efficient superintendents.

Mr. Saunders has also been honored in Great Britain. He has been elected a Fellow of the Linnean Society, of the Chemical Society, of the Royal Microscopical Society, and of the Entomological Society of London. The training he has had has given him a practical knowledge of many subjects, covering a wide field bearing on agriculture and horticulture in Canada, while his knowledge of chemistry, botany, forestry and entomology has further qualified him for the work he has in hand. The results already achieved in introducing new and promising varieties of seed grain into all parts of the Dominion, the experiments with cattle, and the manufacture of dairy products, also with pigs and poultry, the testing of fruits of all sorts, especially those adapted to the colder parts of the country, the originating of new kinds of cereals and fruits, and the distribution of young forest trees and forest tree seeds to the settlers on the western plains are producing a most favorable im-

pression on the farmers of the Dominion. The mass of valuable information being given to the farming community by Prof. Saunders and his able staff of associates in the annual reports and bulletins which have been issued under authority of the Minister of Agriculture since the work began, has furnished further evidence of the wisdom shown in originating these institutions for the benefit of agriculture in this country, and in the choice of the officers intrusted with their management.

Make up hills of fresh soil for the early tomato plants, and take the plant out of the bed with a block of earth adhering 5x5 inches

square and 2½ inches deep. More fact than poetry is contained in the following extract from a letter of Mr. R. W. l'hipps, of Toronto: " Let me here state as an axiom what long actual observation has taught me: Countries are settled by the letters written by settlers. All asssisted passages, all emigration agencies, lectures, and pamphlets only ultimately empty your own pocket and fill your rival's territory, if it be the best for settlers." Look, for instance, at the hundreds of settlers who are flocking into Canadian territory from Dakota.