CANADA'S EXPERIMENTAL FARMS THEIR WORK AND THEIR METHODS

BY ELIZABETH WALMSLEY, IN THE EMPIRE REVIEW.

greater interest and of greater significance than those dealing with the experimental farms, established by

The Dominion department of agriculture succeeded a provincial department of a similar nature, presided over by the minister of agriculture at Quebec. In the first session act was passed for the reorganization of the Quebec department on a new a number of experimental farms were established throughout the country. To the five original farms at Ottawa acres), Indian Head (Saskatchewan, acres), Indian Head (Saskatchewan, acres), and Agassiz, B.C. (300 acres), and Agassiz, B.C. (300 acres), have been added those at acres), have been added those at and counsel, free of charge, and the words acres), have been added those at and counsel, free of charge, and the words acres (400 acres), and counsel, free of charge, and the words alone one might don, Manitoba, who has been called write the history of the invasion of the words. The stinkweed, for in-

by be regarded as an immediate part of that admirable machinery the Dominion fine devised in its experimental farms for the vast business of turning its hundreds and thousands of immigrants, year by year, into successful farmers. The colleges provide the farms with superintendents, horticulturists, chemists, cerealists, bottained were for the minister of agriculture by the late Dr. Fletcher, entomologists, and the various departments of the government with geographers, hydrographers, mineraling officials, but it is the farms which metamorphose cobblers, soilerts, sallors, clerks, engineers, wait officials, but it is the farms which metamorphose cobblers, soilerts, sallors, clerks, engineers, wait of the land—into expert grain grow-ers and scientific ranchers. The colleges upported the farms of the special properties of the government and the rule of the solution of the riddle how to weld Canada's population into officials, but it is the farms of the solution of the riddle how to weld Canada's population into officials, but it is the farms of the land—into expert grain grow-ers and scientific ranchers. The colleges upproved the farms of the government and properties and similar officials, but it is the farms of the government of the government with the measure of the solution of the riddle how to weld Canada's population into officials, but it is the farms of the government with growing the properties of the government with government of the government with growing the properties of the government of the government of the government with government of the government of the government with government of the government of the government of the government with government of the government of the government with gov

the cultivating of a proper spirit of pilde of race." It is to be hoped that England will arrest in time her gradual metamorphosis from an agricultural structural to a manufacturing country, less that have grown and contains on the process, like a pestilential manufactures to the lattle groups of the proper spirit of pilde of race." It is to be hoped that passes, organizes a small corps of passes, anachronism. England had better forfeit her farm laborers to Canada it she cannot prevent their drifting in the cannot prevent their drifting in the cetter over here have a fine chance, there or less on the move in dealing not with another man's land and crops all his life, but with his own. "Back to the land" should really for the emigrate." Millions of glorious acres are to be had practically for the asking in Canada, and Canada in providing for her own expansion has also provided for the wholesale regeneration of England's—of Europe's —pale-faced, city-worn, devitalized men and women and children. This

There are some of

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"Model"

"Victor"

Few chapters in the history of West-, Montreal, "is the greatest educational any arbitrary action which would be tiers, and with the men who have in Canada. England must, however, of every farmer to assist the inspectmade these farms a recognized power see to it that she sends over the right or in his efforts to have the weeds in agriculture, in science, and in edusort of raw material to manufacture kept under control. In all your dealciently clear that while she will do did technical volume, well illustrated, all in her power to aid and teach and called "The Farm Weeds of Canada," experiments. Settlers throughout the prairies.

Perhaps it hardly matters, over here, leges supply the officers, and the farms of that great army of men who have beaten their swords into plowshares, and set about the conquest of the great Northwest.

In Canada, farming in all its branchea is looked upon not only as the first national concern, but as the practice pare excellence for the great wheat floorisg the himmanizing of the people, and the farms of the guiltvailing of a proper spirit of "moxilous" of race." Is is to be hoped that the such spiles of race." Is is to be hoped that the such spiles of race." Is is to be hoped that the such spiles of the province in the form of the Grain aphis, the Clover seed of high quality bushels of its and located the province seed of high quality bushels of its and located the province seed if a pocket handkerchief of a field, midge, the Hop-flea beetle, the Apple leaf hopper, root maggots, moths, cankerworm, sit the Grain aphis, the Clover seed if a pocket handkerchief of a field, midge, the Hop-flea beetle, the Apple leaf hopper, root maggots, moths, cankerworm and subsequent skill in handling the product, while other men were laboriously have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome attention at the hands of Dr. Fletcher and have received much unwelcome at the hands of Dr. Fletcher and have received much unwelcome at the hands

and economic evils that have grown sometimes caned, feeture in the variance of the process, like a pestilential cus local centres to the title groups by product, should become for her an of settlers belonging to this, that, or anachronism. England had better the other agricultural association. In this they follow up the lectring sections. Free samples of high qual
some 700 acres, was offered in 1887.

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ern Canada's development are of experience England's people have likely to create ill-feeling. You should of money without brains and skill to ever had for teaching citizenship, selfreliance, and every kind of advenforcing it is to afford protection to

the product of money without brains and sain to
frather make it clear to offenders
against the act that the object of enforcing it is to afford protection to
the product of the protection to
the protection to the protection to the protection to
the protection to the protection t the Dominion government in the mu-turous courage." And what has been them as well as to their neighbors, where wolf willow is the natural tual interest of the land and her set- done in the Motherland can be done and that it is distinctly in the interest growth. sort of raw material to manufacture kept under control. In all your dealinto farmers, for success or failure in ings with the farmers it will be well homesteading results less from any to remember that although you are element of chance than from a man's invested with certain powers, your own character. "It's the land and duty is not so much judicial as eduthe man," as a Saskatchewan farmer cative." Together with these clear-observed when discussing an instance sighted instructions Alberta—for one observed when discussing an instance sighted instructions Alberta—for one who is a Canadian of Scotch descent.

"Agriculture," said Dr. Robertson, so runs the field-agent's vade mecum, principal of the Macdonald College, "you are to avoid if possible taking the formation disseminated annually from such stations may be obtained."

The sacond war would be sufficient where the more such stations may be obtained."

The sacond war would be sufficient where the more such stations may be obtained."

The sacond war would be sufficient where the moderate estimate twelve to twenty gatherings each to wheat came just after noon and gave the condition of new sown grain formation disseminated annually from at harvest this year. Before this information was received, fluctuations have been uncertain. May showing a heavy being re-

particulars as to site and soil, and he will receive in return such-and-such a schedule exactly calculated to meet the case, a schedule which is the direct result of practical experiment. In arranging a rotation it is very necessary to have some knowledge of the food requirements of different crops, and to know something of the values of the residues from the different crops, and to know something of the values of the residues from the different crops, and to know something of the values of the residues from the different crops, and to know something of the values of the residues from the different crops, and to know something of the values of the residues from the different crops, and to know something of the values of the residues from the different crops, and to know something of the values of the residues from the different crops, and to know something of the values of the residues from the different crops, and to know something of the values were virtually at the notice of the new Saskatchewon government, and in the spring of 1906 entered its service as superintendent of the newly-formed department of fairs and instance of the residues from the different crops, and to know something of the values were virtually at the notice of the new Saskatchewon government, and in the spring of 1906 entered its service as superintendent of the newly-formed department of fairs and instance of when the news came regarding the oklahoma. A sharp advance ensued and latest values were virtually at the number of the news came regarding the observations. values of the residues from the dif-ferent crops included. Certain forage returned to his old love and re-enther crops need more phosphates, hence do well after some forage crop has taken up the super-abundance of free nitrates found after sod. It is evident therefore that a good rotafree nitrates found after sod. It is evident therefore that a good rotation will include (1) meadow or pasture, (2) roots or corn, (3) some cereal crop. Farmers of course know eal crop. Farmers of course know the canal crop but the Canal crop but the Canal crop but the Canal crop can but the Canal crop can be considered as a crop can be confidered as a crop can be

experts for demonstrating. Yet there are not lacking persons who, will scoff at the yields on exmental farms "Anyone," they "could do that with the govrnment behind them; the farm doesn't have to pay its way." Such critics forget, as The Edmonton Daily Bulletin has pointed out, that men til they have made good on other farms, and if they did they could not hold the job two years, for no amount

These men who have graduated in the school of hard work and self-help of failure, "and the first two years —supplies her weed inspectors with out here depend more upon the man sheaves of bulletins for distribution, than on the land. . . the land is no with a specimen case of the seeds of his present responsible post, and was of the Quebec department on a new and the latter of work and more efficient basis, and in 1886, good to men who can't or won't all the weeds upon which he is to practically the discoverer of the section of a contract of a successful wheat-growing on the case of the section of ret of successful wheat-growing on the illimitable plains of that province To the five original farms at Ottawa (467 acres), Nappan (Nova Scotta, she will undertake no philanthropic in the young botany of the virgin there is Mr. Bedford, until recently or the five original farms at Ottawa and likely settlers, calculated to rouse life-long interest ing" will explain the secret. Then she will undertake no philanthropic in the young botany of the virgin there is Mr. Bedford, until recently or the initiate the word "dry-farm-form the secret."

Lethbridge, South Alberta (150 acres). Each of the local farms is managed by a superintendent, but the general control is exercised from the central out the principal scientific investigations.

Canada also possesses many admirable agricultural colleges; smillar to those in this country. These colleges are situated at Truro (Nova Scotia), while it is expected at Truro (Nova Scotia), while it is expected at the country. These colleges are situated at Truro (Nova Scotia), while it is expected at the country. These colleges are situated at Truro (Nova Scotia), while it is expected in its cleaned for the country in the country of the care of the country is a superintendent of the experimental farms furnish at the principal scientific investigations.

Canada also possesses many admirable agricultural colleges; smillar to those in this country. These colleges are situated at Truro (Nova Scotia), while it is expected in its cleaned for the country of the coun

the second year would be sufficient Mr. James Murray, who has now been uncertain. Mr. Tradford of Brandon tone but December to sow fifty acres, which at the same moderate computation would furnish 2,500 bushels available for seed or sale at the end of the third year."

Succeeded Mr. Bedford of Brandon latively firm. The weakness early resulted in the main from an increase salice in the main from an incr 2,500 bushels available for seed or sale at the end of the third year." Granted, of course, that the seasons were good and propitions.

In arranging such a matter as a rotation of crops best suited to any given locality or requirements the farmer has only to send to the experimental farm nearest at hand, state particulars as to site and soil, and he will receive in return such-and-such crops need an abundance of nitrates, tered the service of the Dominion

this all the world over, but the Canadian immigrant is not necessarily a farmer, so the experimental farms, or experience and possibly years of fail-

the process of rotting about 60 per turally educative forces at work in Chalmers, of Bowden, officiated and cent. of its weight, is a fact for which Canada to omit the influence of the the happy couple afterwards left for n farmers by profession may thank agricultural journals, but numberless Calgary.

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Flax-			6c to 7c.
December		2.226b	
May	A STATE OF THE STA	2.32	Catatle-Good fat steers, 1,200 and
Chicago.—			up. 3% to 4%; good fat steers, 1,000
December	901-4	911-2	lbs. to 1,200 lbs. 31/4 to 3%; extra fat
May	96 1-2	97 1-8	heifers, 1,050 lbs. an dup, 3 1/4 to 3 1/2 c;
uly	93 3-8	94.3-8	
Minneapolis-			medium quality fat heifers, 1,050 lbs.
December	101	102 5-8	to 900 lbs., 2% to 3%; extra fat
May	105 3-8	106 5-8	
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1; rejected 1-1 N	Or. 84 1-2; re	Jecteu,	

providing for her own expansion has also provided for the wholesale regeneration of England's—of Europe's them are busy devising all sorts of men and women and children. This men and women and children. This laded is the view taken by men in the Dominion who are not only agriculture; while the Noxious Weeds Act gives "Agriculture," said Dr. Robertson, to runs the field-agent's vade menum, principal of the Macdonald College, "you are to avoid if possible taking" the report, "how rapidly a supply of grain may be built up from a single from the sating the report, "how rapidly a supply of grain may be built up from a single from the last year of Mr. Beaford's superintendency he estimated that no fewer thousand farmers and others visited the farm, and three thousand farmers and others visited the farm, and three thousand letters were despatched, besides many hundreds of circulars.

"While the Noxious Weeds Act gives the inspector power to order the decourse of thousand letters were despatched, besides many hundreds of circulars.

"While the Noxious Weeds Act gives the inspector power to order the decourse of the many be built up from a single four or five pound sample. Take for instance - sample of oats. The four pounds received will, if well cared to the course of the uncount of the last year of Mr. Beaford's superintendency he estimated that no fewer than eighteen thousand farmer and others visited the farm, and three thousand letters were despatched, besides many hundreds of circulars.

From these, figures and the fact that the farm superintendents address from two acres of the amount of instance of the last year of Mr. Beaford's superintendency he estimated that no fewer than eighteen thousand farmers and others visited the farm, and three thousand there to four the last year of Mr. Beaford's superintendency he estimated that no fewer than eighteen thousand farmers and others visited the farm superintendency he estimated that no fewer than eighteen thousand there that no fewer than eighteen thousand farmers and

Bulletin News Service.

A fire occurred on Sunday night

A large number of parents and friends were present at the Bowden public school at the invitation of the principal, Mr. Colwell, and a committee of senior scholars. The Rev. F. E. Davies was selected chairman. Mr. Colwell gave a brief outline of his methods of teaching. Rev. Davies addressed the boys and girls on the duty of loving their parents. Songs, recitations and music were given by the scholars. Words of thanks were spoken by the Rev. Chalmers, Mr.

singing of the National anthem clos-



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Arraying himsel Sifton, ex-Premie ponent of the bil Strathcona was th and he spoke with and elo position. He was Bramley Moore C. M. O'Brien, record as opposed fore the House.

by E. Michener. ion, who will pre seconded by Gee lichener has not tails of his am follow the lines o B. Bennett, claimin a violation of the vidual and that the used to build the ra terday, but is expe ment Mr. Michene eved of speaking that he had not proper shape: Pr enant to complete fore the House w members who ha another opportunit

First Recorded As an incidental took place. It aro for adjournment of by Mr. Patterson. he had not all the quired to discuss Sifton objected to a upon a vote the c to 11. While not i vote on the main b give the most co (Continued on P the administration the line-up on the

Marshall, McKenzie. ford, Holden, Buchar Walker, Telford, C.

LOCATIO

ure have to tell him.

In view again of the vast importance of making the best possible use of barnyard manure it is difficult to estimate the value of just one item of information which an experimental farm might arrive at whereas the ordinary farmer has no facilities for discovering it. That fresh manure is equal ton for ton in crop-producing power to rotted manure (which experiments). It would be unfair of course in forward for the cuncil and three prominent names for the position of mayor.

Mr. and Mrs. J. Marshall are rejoicting over the birth of a daughter which took place last Thursday. Several town people are visitors at the home of Mr. and Mrs. John Mc-Millan, Lake View, to a very pretty weedding of their daughter, Mabel, and Mr. B. A. Barnes, of Carlstadt, and Northern Hardware Co. Ltd. Two Stores: I pay the highest prices for Mr. B. A. Barnes, of Carlstadt, and power to rotted manure (which ex- It would be unfair, of course, in Jasper and Queens periments have shown to lose during any general estimate of the agricul- formerly of Lake View. Rev. Mr. Phone 1018