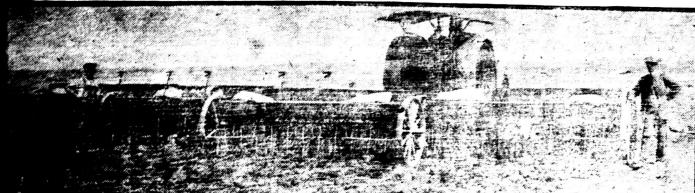
Dry Farming And Irrigation



(1) Planting Wheat to feed the (3) Alberta Crop on an Irri-(3) An Irrigation Canal in

WERE is an opinion in the publie mind that dry farming and irrigation are two methods of Mure directly opposed to each Nothing Calid well be farther the trth. The fact is, dry s and irrigation are methods alture very closely allied to other. Both are practiced in where precinitation is less the growing crop requires; both interned to evercome low preciby means at the command of the and of the civil engineer.

It is only natural that of these two is dry farming should be better. re and more widely adopted in a ry such as Western Canada. country has been settled for the t part by farmers who have had nce in irrigation farming, reso more or less familiar with

m; if the precipitation is too Nova Scotla ow not even the methods of the most to bring forth a crop.

In order to practice irrigation Manitoba 4,400 farming it is necessary that engineerling works, frequently of a very ex-Alberta31,396 sive nature, should be installed, B. Columbia .. 8,681 and this is possible only where the The pre-eminent position occupied and the dry farming on the higher

ples of dry forming. There necessary that nature should provide to the irrigation enterprises which to be considered the fact that an ample supply of water available have been carried out in that promay be practiced any for use through these engineering vince. It should be stated also that but irrigation is dependent works. Where the foregoing condithe alfalfa production of Saskatcheof water being avail- tions exist certain very great advan- wan and British Columbia is also due and covering engineering works tages are found in favor of irriga- mainly to the irrigation enterprises sied out without which it is tion farming, and it may be said in these provinces. Alfalfa may be These werks involve a that prehably nowhere are they said to be the most valuable crop

takes the purchase duced in the United States,

None 142,500 Saskatchewan. 9,500 15,300 64,400 22,400

ment of capital and it is, found under more favorable circum that can be produced on a farm; it o, satural that irrigated stances than in Southern Alberta. has a feed value equal to its own The irrigation former requires less weight and brank It has been demonstrate to areas devoted to dry land than his neighbor who follows strated that an acre of alfalfa will dry farming, because he is not produce 591 pounds of pork as comthe guspess of this article obliged to allow any of it to remain pared with 365 pounds from an acre the advantages of fallow; and while he may pay more of corn. It has also been demonof farming as compared per acre for his farm his total in strated that with milk at \$2.00 per the effect. Hach has its advo- vestment may be less. He has the hundred pounds the value of an acre and-east, doubtless, its advan- advantage of absolute insurance of alfaifa for milk production is mer very with local con- against drouth. He could raise much \$91.88 compared with \$16.72 for an B. For example, as has been heavier crops of grasses, vegetables acre of timithy. In addition to its day farming is not dependent and fodders than is possible under great feeding value alfalfa has the advantage wast, water supply, any method of dry farming, and he advantage that instead of impoverbical complitions. Its prin-can raise some crops which are not ishing the land it makes the land readily be acquired and practicable without irrigation. Such richer; it calls for comparatively any one familier with a crop for example is alfalfa. Al- little labor, being sown only once in one of agriculture, though alfalfa is grown to some ex- several years; it requires no binder some favelve the capital outlay tent on dry land its natural home is twine or threshing, and the farmer is connection with irrigal in the irrigation districts. It is the can either expert it or can consume E. On the other hand dry greatest of all irrigation crops pro- the entire crop on the premises by

come one of the greatest livestock through irrigation. At the same 30 acres 100 tons time the non-irrigated areas will continue to be worked on the dry farming principle and instead of dry farming and irrigation being in opposition they now are found-practiced by the same farmer on the same farm, the irrigation farming below the ditch, topegraphy of the country lends it- by Alberta among the Western Pro- land which cannot be reached by self to such an enterprise. It is also vinces in this respect is due entirely irrigation.—R. J. C. S.

Canadian Ladies Helping The Allies



Ladies of McGill University Women's Union making surgical dressings of Sphagnum Mosa (Reading from Left to Right)—Mrs. E. Fairman, Mrs. A. Stevenson, Mrs. C. MacParlane, Miss McLaughlin, Mrs. R. Starke, Mrs. E. Brown, Miss Neilson, Mrs. Willey, Miss Gairdner, Mrs. A. McGeun, Mrs. Nichelson, Miss Lamb Mrs. Thornton.



(Reading from Right to Left)—Mrs. Arthur Willey, Mrs. C. E. Moyee, Mrs. A. McGeun, Mrs. I. B. Porter.

PHAGNUM Moss, to which atten- Dr. Porter to familiarize himself with small pond. Before any attempt in natural resources, one great value amount of moss. Success in the use this preliminary examination should of which has been brought to of this material led to the adoption of be made by persons who have had prein surgical dressings dates at least and to the formation of a department num. as far back as the Napoleonic wars, which was placed under the control of Owing to the great variations in until 1915, and even in the Spring of advisor.

The first effective work on this side mense output for the use of their own the work of the McGill Women's of the Atlantic was initiated by Prof. and the French hospitals.

paring moss and shipping dressings esity and nobility Another important function of this organization has been to make up ex. places, and can be found in almost all

work room was started at Dalhousie to cause irritation Red Cross definitely adopted splangmarine warfare necessitated a temporary check; but the work of exploration and development was continued. on and development was communed.

The late Mr. Harry James Smith of more are likely to se found close to 3 M. Calabridge, Hon. Sec.

During the winter of 151

tion has been drawn by the the technology of the subject, estab- made to collect moss in quantities all fatal accident to Mr. Harry lished a sphagnum organization at his of the bogs in the district should be James Smith, the American Sphag-own expense at Arichat, Cape Breton, examined with a view to locating the num Moss expert, is one of Canada's and collected and prepared a large largest supplies of good material, and light by the war. The use of mosses sphagnum by the American Red Cross vious experience in collecting Sphag-

Americans are organizing for an im- a new locality.

was able to locate supplies of material Canadian Sphagnum Committee, prowhich the same authorities accepted cured a car of Vancouver Island moss this moss in the autumn of 1916 by own pocket) proved so satisfactor forts" for the Junior Red Cross of Guysboro, that he went to Seattle early i Marri to organize the industry in the north-Since then the industry has devel- western States, and incidentally to oepd steadily. The McGill University look into the situation in British Women's Union established a sphag- Coumbia for Professor Porter, who num department in a large laboratory was unable to go west at the time very generously placed at their dis- As a matter of fact Mr. Smith met posal by the University Medical his death while earthing for mess for School in the autumn of 1916, and the Canadian Red Cross, and thus set from that day until this has been pre- the seal to a life of exceptional gener

perimental sphagnum dressings of parts of the country; but the takes many sorts to try out the different be useful most but exceptionally fur grades of Canadian material under and soit foliage, and the stems while tie mut be flevible, at University, Halifax, and the Canadiar first class material has been for

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but the demand for and extensive use Mr. Smith as organizer and Dr. J. A. usefulness of different kinds of Spharof Sphagnum Mors did not materialize Hartwell of New York as technical num, and the fact that different species grow very much intermixed, the 1916 its use was in the experimental During the last two or three months material has to be collected by people stage. So great has become the de- developments have been very rapid who have been trained to know good mand that Great Britain is no longer The demand for dressings has increas moss from bad, and even an experiable to fill it, and Canada and the ed to such an extent that the Canadian enced collector will often have diffe-United States are now being actively Red Cross has decided to start pro- culty in deciding just what to take exploited for this highly absorbent duction on a large scale, and the and what to leave when he first visite

Porter of McGill University, who se- No moss can of course be procured Union. No. 1 illustrates the preparacured samples of various qualities of in the east until the snow melts, and tion and drying of sphagnum and the moss from the British authorities the bogs thaw out; but excellent manufacture of dressings. No. 2, the early in 1916 and then explored the sphagnum is also found on the Pacific general soldiers' comforts work. The bogs of Eastern Nova Scotia until he coast. Mr. Smith, with the help of the Union was organized during the fire families of the Governors and staff of as "perfect.' The first sphagnum dress- early in the winter, and this carload the University. Its original purpose ings sent overseas were made up from (which Mr. Smith paid for out of his was to help provide "soldiers' comstudents on active ere now number over 2,200, the po vibilities of its work may be imagined. During the three and a half years of briy \$8,000 on the purchase of high rade materials, which have been made up by its members into socks. cans, mufflers, pyjamas, shirts, etc., to a total of about 9,000 articles of clothin alone, to say nothing of an imneense number of sphagnum dressings,

The organizer and first president of ne Union was Mrs. H. Walter; since then the chair has been filled sucpresent President. west coast of Van of the Union is Mrs. A. McGoun and New York became interested in the times considerable areas of clean high.

New York became interested in the times considerable areas of clean high.

New York became interested in the times considerable areas of clean high.

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