

## The Summer Fallow

By JOHN BRACKEN, B.S.A.

produce a crop.) Little more than a generation In addition to water, plants must frosted.

"'desert'' land. year on the average.

crops without rain. But he can fashion: grow crops on a limited rainfall if "Low yields in dry countries kill them.

merfallowing."

Experiments and Experiments a that our low rainfall is not suffi- ten into the land-must be "stor- bushels per acre this year-discing fibre and which appears on another payment will be taken with the cient, at least under our present ed" in the soil.

cient, at least under our present farming system, to grow good crops every year. So we do the next best thing and proceed to store one year's rainfall in the soil and keep beavy downpours of early summer. year's rainfall in the soil and keep heavy downpours of early summer. 1,000 pounds of water for every chewan was different from that it there for next year's crop, thus in most years ensuring that crop we shall plow and have the land in we shall plow and have the land in a receptive condition so that when available for the next year's crop. spent \$3.000.000 in vain endeavor

against failure from dröught. But ean this be done? In farming practice it is not poss-sible to store and retain in the soil and not run off the surface all of the rain that falls in any year; but it is possible to store al aftere portion of it. In every four in depth of normal soil from 2 to 3 or more inches of and retained, and at the end of July 1st and otherwise; ed and retained, and at the end of July 1st and otherwise; ed and retained, and at the end of July 1st and otherwise; ed and retained, and at the end of July 1st and otherwise; ed and retained, and at the end of July 1st and otherwise; ed and retained, and at the end of July 1st and otherwise; ed and retained, and at the end of July 1st and otherwise; ed and retained, and at the end of July 1st and otherwise; ped or prairie land is practically in end early on our lights for pounds of lange and early on our lights for pounds in the normal soil for y retained fields, but several feet, while adjoining erop-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erop-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erop-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erop-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erop-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erop-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erop-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erof-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erof-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erof-ped or prairie land is practically in erof on "dry lands" in the several feet, while adjoining erof-ped or prairie land is practically in the of on "dry

[dry. (This year at the University ] not quite so deep nor so early of fallowed land yielded 30 1-4 bush our heavy and newer lands and or els of wheat; well cultivated fal those fields in the eastern and Professor of Field Husbandry, plowing 16 bushels 53 pounds, northern part where the rainfall is and lodge, or too late and get

ago, a large proportion of the prai-rie land of Canada and the United \_\_from the soil. These cannot be of that land so that the moisture States was spoken of as the "Great taken up in solid food as an animal will not be lost by evaporating in-American Desert." The rainfall gets its food. They must first be to the air, nor by the growth of of this "Plains Region" was so made soluble in water, in which weeds or other plants, because it small that geographers considered form they can be taken up by the is only in these two ways (except small that geographers considered it unsuitable for agricultural pur-it unsuitable for agricultural pur-

Within the memory of men now up to get the necessary nourish- putting a "mulch" on the landliving has grown up the science of ment. If, on the other hand, the a loose granular layer of soil that 'Dry Farming''-the science of solution is concentrated or thick, will effectively lessen the amount making the best possible use of the a smaller amount of water will pro- of water that evaporates. This we tions, explained that the cancella- On Wednesday afternoon, the connection with distribution would moisture that falls in dry areas. In some parts of the world 12 feet of water reaches the earth in the of water in fallowed. It after plowing and as soon as hand. The association had borrow- association was brought up. The moved by Wiljames Thompson, endous majority and without the trading activities of the large stocks on an end seconded by Wiljames Thompson, endous majority and without the trading activities of the large stocks on an end seconded by Wiljames Thompson, endous majority and without the trading activities of the large stocks on a seconded by Wiljames Thompson, endous majority and without the trading activities of the large stocks on a seconded by Wiljames Thompson, endous majority and without the trading activities of the large stocks on a seconded by Wiljames Thompson, endous majority and without the trading activities of the large stocks on a seconded by Wiljames Thompson, endous majority and without the trading activities of the large stocks on a seconded by Wiljames Thompson, endous majority and without the trading activities of the large stocks on a seconded by Wiljames Thompson, association was brought up.

low is an insurance against drought. so much ground and at such a low would be necessary for the 36 000 development of the trading depart-

established that the harrows do not business this coming season. grow crops on a limited rainfall if be understands and puts into practice the methods now understood of (1) storing the rainfall in Irrigation is not feasible with us- use the dise because we must lessen at liberty to disclose this source, modities. Smaller distributing necessary capital."

cause we cannot store or retain the of the next fallow easier. (Discing ments.



# Saskatchewan Grain Growers' Convention

#### (Report continued from last week's issue.)

The consideration of the finan- Co-operative Elevator Company Growers should carry their co- changed to "abolish." al statement brought out a very had been approached by the trade pre-rative activities on until service, Mr. Musselman suggested that elpful discussion from delegates in an endeavor to get them to mak who asked questions and contribut- two sets of prices, one for north 'asis of distribution. When asked tions to the Canadian Council of ed information. It was explained and another for southern Saskat- if he would advocate the elimina- Agriculture. It was explained that y Mr. McKinney that when a spe- chewan. But they had refused, tion of merchants who were giving the Council had in mind an elective ial organization meeting was to be and protested against the practice. a good service, said that the work senate when the Platform was Projessor of Field Husbahary, while spring breaking failed to greater, lest the crops grow heavy beld the Central office would send The company had not sent a bushel bould be carried on and that good drafted. The clause literature to the individual farm- of seed oats out of Saskatchewan merchants would be found willing to stand as first drafted. ers in the district if their names and had not made a dollar out of to go over and take their places in B. A. Carruthers, of Goodland, were supplied. By this means lar- oats retailed to shareholders or the great co-operative enterprises referred to an article in an Ameriger meetings were secured and good customers. An important point finding therein a wide field of ser- can periodical by a well-known customers. An important point finding therein a wide field of ser- can periodical by a well-known contact of the average lo- vice.

organization work resulted. Mr. Musselman showed that the cost of sending a speaker to each province to the other was as high organization work resulted. Mr. Musselman showed that the province to the other was as high organization work resulted. Mr. C. Paynter, of Tantallon, re-viewed some of his experience in severance of Empire ties. If this local only once a year would be as the average rate from Saskat- farmers' movements, including the was the case be would refuse to

suits other than ranching. Yet to-day we are growing crops on this for "soil soup" is thin a large out of the land. We shall keep amount of water has to be taken down the loss from evaporation by strength of the organization lay in recounted the experience of the as- co-operation should be extended to There was nothing in the platform the work done in the locals by the sociation some years ago and which every distributing point, so that to lead to any such conclusion indicated that such a scheme was there would not be competitors but individual members.

Mr. Musselman, in reply to oues- not feasible. of water reaches the earth in the land than on land not fallowed. If after plowing and as soon as hand. The association was brought up. The and seconded by W. J. Benwell, delay. form of rain yearly. In Central This, together with the added mois-and Southwestern Saskatchewan we get from 13 to 18 inches per the summer, explains why the fal-we get from 13 to 18 inches per the summer, explains why the falyear on the average. Yet water in large quantities is precessary—absolutely essential to grow large crops. The best "dry farmer" in the world cannot grow farmer" in Musselman stated that he had a lately to secure a warehouse in Re- as convenient, take over the man-pletform second similar treatment the soil and (2) conserving it there all we can do, therefore, is to make this evaporation after one grop in Very complete explanation was constructed. The plan was to suffer a suffer the plan was to suffer the solt and (2) conserving it there all we can do, therefore, is to make this evaporation after one crop in very complete explanation was to author-for the use of the crops. This is the best possible use of the moisture for the moisture for the moisture for the moisture for the delegates in regard to the financial statement of both the sale of debenture stock for which capital was to be raised the Platform, as drafted by the an amount of \$500,000, in allot-should be issued was then read to the Platform. the first principle of "dry farm- we get in the form of rain and next, or even to cause weeds to the financial statement of both the ing." In Saskatchewan we call it snow-but principally rain, be germinate or to make the plowing organization and trading departiple.

early after harvest last fall would page of this issue, was read to the annum.

and not profit only, would be the changes be made as recommend

co-operation, but all business in

Mr. sufficient capital be raised immed- partment, the Central shall, as soon according to other relarks of the

monts of \$100 each or many mult- the convention. This was a care of en bloe, did not meet with a

ferred they will be as follows :-

The general assets of the asso-

to the convention but was defeated. The scheme was then presented to the convention and approved, after which subscription lists were circulated. Notice was then given of amendments to the constitution made necessary by the plan for raising capital and extending the trading activities of the association. R. M. Johnson, of Eastview,

opened the discussion on the revised Farmers' Platform by reading the new and revised sections as ap proved by the Canadian Council of Agriculture last fall.

It was moved by delegate Meiton that in the clause referring to the senate the word "reform" be

John McNaughton, of Harris, proposed an amendment, callingfor the total prohibition of the sol and manufacture of lionor in Caendous majority and without

conventions, and which have been

fully-prepared/document and is re- favorable' reception from the dele

Hon, C. A. Dunning said that application. Where terms are pre- ed upon to discuss the proposal, the Canadian Council of Agriculsaid that he had only had oppor- ture represented the best brains With application for each \$100 tunity to give the matter a cursory of the farmers. Before, therefore, subscribed. \$30 cash and two notes examination. However, the scheme an amendment to the Platform was of \$35 each, maturing November 1, gave the investor the treatment ac- finally passed upon, he suggested 1919 and 1920 respectively, bear- corded to holders of preferred that a member of the council be ing interest at eight per cent per shares at the same time not affect- asked to tell the convention why ing the democratic principles of the idea embodied in the au the association. He believed the ment was not embodied in the Plat



## MANITOBA GOVERNMENT SERVICE DEPARTMENT

One of a Series of Articles by different Officers of the Manitoba Government Service.

Experiments conducted by the Field Husbandry Department, intota Agricultural College, indicate that a difference of from one

3rd. Viable Seed.

The most suitable variety is the one that will give the highest yield of the best quality under the local soil and climatic conditions. While many new varieties are being advocated, grain growers will find that in most cases the old standard sorts will give the best results. business. They are as follows:

Wheat - Marquis.

Oats - Banner; Victory; Gold Rain

this spring, there is great need for the use of wild oat separators on many farms: if clean crops are to be produced, clean seed must be sown. If the variety is suitable, and the quality of the seed good, it will pay the grower to endeavor to clean up the seed; but if the variety is not pure, it would probably be money well invested to sell the grain and purchase pure seed-from a reliable grower.

Seed may be of the best variety, and pure, and still be useless, if it will not germinate. The first two points often receive more atten- and the surface soil, because it was Alberta had gone 18 cents higher to lovally support their Central by tion than the latter, because defects under the first two heads are so fine, was carried away and the than in some other parts. When conding their orders to it. By this most easily detected. The viability of a sample of grain can be determined only by conducting a germination test.

The Field Husbandry Department of Manitoba Agricultural College has made a number of germination tests of farmers' samples and my crop was so heavy and ranl this year. At present about fifty samples per day are being received. that it 'lodged,' was poor in quali-Of these about twenty per cent. test lower than 80 per cent. In other ty as a consequence and cost m. words 20 per cent. of the samples are not good seed. In most cases this is due to frost or weathering. If frequently happens that a sample may test 95 per cent. germinable grain, but be considered poor seed because of the plants all being weak.

If there is any doubt about the viability of seed, it should be fallow early in June and it kep. tested. This may be done either at home or at one of the Government my teams busy all summer cult. seed testing laboratories. Secure a representative sample; this is vating it to keep down the weeds done by taking small samples from different places in the bin and I prefer to do it later because the mixing them together. If you desire the Agricultural College to make weeds don't grow so much and i the test, send a two ounce sample addressed to the Field Husbandry takes less horse power and time to Department, Manitoba Agricultural College, Winnipeg. A report will be received on these samples in the course of about ten days or fallowing." two weeks.

moisture, and a larger amount of available plant food, will be ready these farmers who having a poor crop or no crop at all, were in the

for the fallow."

resulting erop was "patchy," uneven and unsatisfactory.'

And yet another: "I did that Percheron **Stallions and** 

Mares

Ave. G. & 21st. St.

(To be continued.)

more humid parts of the province, but not on "dry lands" in the southwest.) This land then, in addition to having an increased supply of insufficient dock-thaving an increased supply of insufficient dock-exceeding those fixed by the board of grain supervisors. Such prac-tices involving the exploitation of age having a nor

Experiments conducted by the Field Husbandry Department,<br/>Manitoba Agricultural College, indicate that a difference of from one<br/>to five bushels per acre may be brought about by the use of good seed.and we shall have done our part<br/>toward producing a good erop.<br/>But some one says: "I did that<br/>and my crop did not ripen—it got<br/>touched with the frost because it<br/>was late in maturing."be too strongly condemned."I J. R. Mostinan, of Guernsev, in<br/>to seen readed the du-<br/>sakatehewan, said Mr. Robinson, at his rogint they seen reated the du-<br/>only a small portion of the oats re-<br/>erional and business departments.Ist. Suitable variety.<br/>2nd. Pure Seed.and we shall have done our part<br/>toward producing a good erop.<br/>But some one says: "I did that<br/>and my crop did not ripen—it got<br/>touched with the frost because it<br/>was late in maturing."In a large section of Alberta and origing the vision stated the du-<br/>sakatehewan, said Mr. Robinson, at his rogint they seen redet the du-<br/>only a small portion of the oats re-<br/>erional and business departments. was late in maturing." Another: "I don't believe in letting one-third of my land worth \$30 an acre lie idle, it isn't good business." (ITTL C. It and alwave anneared in grown. Some elevator companies brout. It and alwave anneared in out two lists of street prices for oats: those for districts where no oats: those for districts where no oats were for sale being much high-tion to this effect was presented by er than those sent to where farm-Mr. Mosiman.

Another one says: "The fallow ers had oats to sell. This has a Growth of Co-operative Sentiment is wasteful of fertility-nitrogen straight discrimination against F. R. Sinnot, of Lanigan su and organic matter - and should farmers in stricken districts. Pric- rorted the resolution and referred Barley — O.A.C. 21; Manchurian; Mensury. If the samples that are being inspected by the Chief Grain In-spector are any criterion of the grain that will be sown in the West be discontinued." Another: "Will not grass sor hoed crops or rotation of crops ac-be discontinued." Another: "Will not grass sor hoed crops or rotation of crops ac-hoed crops or rotation of crops achoed crops or rotation of crops ac-complish all these things claimed had been mixed with bad to bring Fle they Fad in getting promot de-

them below the seed standard so liveries of coal from Central and And another: "I did all these people say and in the spring after A large quantity of seed outs had more capital in order that they that they could be sold to the trade. the seed was sown, and just as the been lost on this account. Street might improve the service. H. C erop was coming up, the wind rost prices for feed oats in southern Floming strongly urged all locals an order-in-council, commandeer they would be able to become a ing feed oats also, had been passed greater factor in the control of the price fell as much as 201/2 cents prices. John Evans, of Nutana,

showing how the market was being also stated that there were locals manipulated. The Saskatchewan who were not supporting their cen-

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tral. He supported the scheme for enlarging the associations' trading activities because he thought it would help to build up co-operation in the provinces.

W. J. Orchard said that if 5,000 eral terms. Mares offer-ed for cash only. of the members would subscribe \$100 each it would supply all the a tor cash only. I sell more Stallions to German farm is in Western Canada thas any perso-leased to have visitors. Correspondence answered in German T H GEAHAM Conseptence and the Grain Correspondence answered in German T H GEAHAM capital requested by the directors Saskatoon, Sass business. He said that the Grain



### HAIL INSURANCE AGENTS WANTED

The LONDON GUARANTEE AND ACCIDENT Co., LTD., of London, England, are desirous of placing agencies for hail insurance for season 1919. Please communicate with BELL & MITCHELL, Ltd., Western Trust Bldg., or the Company's Office, 208 Darke Block, Regina, Sask.

