Exterminate

of the ranching inson levied his usual ock that roam the ntly a meeting was nered many prominmeeting the system ced on a more satis to prevailed. The inty of \$15 per head re dollars for pups; so heavy that the plement this bounty. scussed, and it was s entering into the against the ruthless ontribute towards a nt to five cents per idled by him. The r full-grown wolves, n scarcely a rancher t suffered considerhe depredations of riously deplete the ture it may be that wolves will become

Dates

provincial Fair at the 1910 exhibition

Week

net November 11. nt legislation outone is the measure il construction.

and a number so recover in a street freight car loaded a crowded trolley.

that the Canadian sful in raising funds action work will be ted that by the end I have contracts let antic to the Pacific.

of Labor met in ast week. Among rongly favoring the s described as the sal and the fairest ever proposed by a

of the Department il value of the fish)8 was \$25,451,085, \$4,814,250; lobster, erring, \$2,471,963; hitefish come next \$819,626.

EIGN

[amacia November is one of unprececut off from cable orld. A good deal and on the planta-

has been running In the langua ho can lick a stamp ive been completed ies and Johnson to pionship of the e July 5, 1910.

important address banquet, Novemearly and complete s at issue between s usual the suffrae woman succeeded adjoining the banhrough a window.

es of the discussion views W. T. Stead, lishing, purporting Istone. Mr. Stead Istone. cial private spirit whom he inter-Stead and "Julia" ts, is following the iterest, and in the nalterably opposed

DRY FARMING CONGRESS

The fourth annual Dry Farming Congress of Am- way and that a properly worked summer-fallow with erica held at Billings, Montana, October 26 to 28, its store of moisture was a good place to germinate inclusive, was largely attended and important and thus destroy many successive crops of weed seeds. addresses were delivered by well known authorities of the government of fallow has steadily widened; but it remained for the Canada, United States and Mexico, railway presidents experimental stations to give our increasing knowl-

the coast range of mountains, as well as that part of the farmers think one year in three often enough to the United States within the dry belt and not access fallow. sible to water for irrigation, would soon develop it This plan of summer-fallowing has been of inesinto one of the most productive wheat growing areas timable value to Western Canada, but it is weak south of the Canadian prairies.

IMPORTANCE OF DRY FARMING TO ALBERTA

This was a paper read by Geo. Harcourt, B. S. A. Deputy Minister of Agriculture for Alberta, who after conveying to the congress the greetings of the farmers of Western Canada, said: It is hard to understand why the Canadian prairies should have lain so long before their value was recognized. It can only be accounted for on the ground that an Allwise Providence was holding it in reserve for an expansion area for the land-hungry from the over crowded countries of to-day. At any rate it has remained for the present generation to develop and appreciate the agricultural value of the immense extent of prairie land stretching for nearly a thousand miles from the Red River Valley to the Rocky Mountains. It is true it is a land of comparatively light rainfall, and it is properly classed a semi-arid district. It is equally true, however, that to-day the desert visions which the term semi-arid calls up have long lost their power to frighten the intelligent settler On the contrary, it means a delightful climate with ample rainfall during the growing season which if properly conserved by scientific soil culture spells successful crops.

It has taken time to solve the first principles and arrive at general conclusions concerning soil moisture on the Canadian prairies. The rainfall varies from ten inches in years of light rainfall to as high as nearly thirty inches in years of heavy rains. Even those amounts vary from differences in local situations. The mean average for Alberta for a period of thirteen years is 17.47 inches. As over 60% of the annual precipitation falls during the months of May, June and July, crop failures need not be looked for proper methods of tillage are followed. Much of the discouragement met with in the early settlement of the country was due to the ignorance of the settler concerning soil moisture and the relation it bore to successful crop raising. The same is equally true of the average new settler to-day, but the ac-

central Alberta. In spite of adverse results, however, the farmer's adherent faith in the efficaciousness of the summer-fallow as a soil renovator was

"Both Cultivation the Theerta dry farmer always has the goal of still higher yields before the him.

What I have said so far has particular reference ness of the summer-fallow as a soil renovator was so strong that the practice of allowing the land to lie fallow every few years became general. It was fol-

out of the soil before they plowed it down in the mistaken idea of the soil before they plowed it down in the

and farmers from every section of the country where edge a twist in the right direction in the evolution dry farming is carried on. A commodious theatre it was undergoing. Particular credit is due to was used to accommodate the delegates and it was Angus McKay, Superintendent of the Experimental crowed each day of the session. The program Farm at Indian Head, Saskatchewan, for his correct arranged was so crowded that it was almost impossible thinking and consequent experimental work on the to keep up with the arranged order of things, but summer-fallow. Realizing from his meteorological everything passed off harmoniously despite the warm records that the rainfall was much lower than he had debates that ensued over the proposal to change expected, he adopted a plan of summer-fallowing debates that ensued over the proposal to change the name of the organization, and the rather bitter address delivered by Louis Hill, president of the Great Northern system.

One of the important speeches of the congress was made by James J. Hill. Mr. Hill's address covered much the same ground that he has gone over on previous occasions when discussing the trend of bushels of wheat, and 25 to 40 bushels of oats.

Adding together their yields for both years he was appropriately provided to that of the year the crop was growing. In this way his yields of grain greatly increased. He was able to secure up to 50 bushels made by James J. Hill. Mr. Hill's address covered of wheat per acre, and 75 to 120 bushels of oats.

Adding together their yields for both years he was appropriately provided to that of the year the crop was growing. In this way his yields of grain greatly increased. He was able to secure up to 50 bushels of wheat per acre, and 75 to 120 bushels of oats. agriculture and the need of better farming methods. Adding together their yields for both years he was This time, however, he was more optimistic, pre- still ahead of them and had only one crop to handle. dicting that the introduction of the dry farming sys- His plan of summer-fallowing alternate years has tem into the country lying between the Rockies and been fairly well followed, only a great majority of

> in that too many farmers have loose ideas as to what constitutes a properly worked fallow to at all adequately conserve the moisture. The fact is that few of them have got the right idea about conserving the moisture, the necessity for doing so or the importance of it; neither have they realized the inherent value of a properly worked fallow for weed destruction. The fact is that too many go through the process of summer-fallowing without knowing

what they are doing, or why they are doing it.

The farmers of Southern Alberta made a great step in advance in their conception and understanding of this moisture question when they came to study dry farming methods. The Government of Alberta were successful in securing the services of H. W. Campbell, of Lincoln, Nebraska, to hold a tors that determine success in dry land farming: series of meetings in the province. This he has done two years in succession. His talks on the importance of soil moisture and his advocacy of the sub-surface place. packer as a means of securing a greater retention of moisture, have been the means of putting the farmers in possession of a more intelligent idea of what is the right thing to do. So much so is this true that I have heard farmers say that farming was no longer an uncertainty in the extreme south of the province, provided proper attention were paid to securing a store of moisture in the soil. This passing from an un- to yield an income. certainty to a certainty means that instead of the farms being only temporary stopping places until their owners had made a little money, they are now becoming permanent owners with all the comforts that the home-loving and home-making Anglo-Saxon

To further extend the knowledge obtainable of dry farming methods the Government have arranged with H. W. Campbell to establish a demonstration station in the province at Medicine Hat, where his work in scientific soil culture may serve as a permanent object lesson of what can be accomplished and a constant incentive to excel.

true of the average new settler to-day, but the accumulation of knowledge on the subject is now such culture has steadily advanced from the haphazard leader in the fight to change the name, but the The early settlers found that after a few years of continuous crop growing the yields were greatly diminished. They naturally concluded that the diminished and required a continuous crop growing the yields were greatly definite object in view. The writer has long held farming Congress.

Hernous of the poorly worked summer-railow to proposal was voted down by a two to one vote, and the organization stands as the International Dry farming Congress.

How W. R. Motherwell Minister of Agriculture Constraint Constitution of the formation of the forma conserve moisture, the yields were satisfactory. In of soil culture, as they apply to semi-arid countries other cases where it had been done to conserve are grasped and their application understood, the moisture the results were disappointing through returns appear to be limited only by the faithnot doing the right thing at the right time. In fulness with which they are applied. Under an indifferent application of these principles, Alberta at this meeting, those interested are advised to a very large amount of humus, summer-fallowing farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and farmers have had no trouble in obtaining forty and the farmers have had no trou resulted in the loss of the crop the following year fifty bushels of wheat, both spring and winter, and through excessive and prolonged growth. This even over sixty bushels have been obtained. With is particularly true of the Edmonton district in more intelligent cultivation the Alberta dry farmer may be obtained in book form at a nominal figure.

to the extreme southern portion of the province which is almost wholly open prairie. Central Allowed blindly without definite knowledge of why it was done. It was a common practice in older contains and to the ameliorating influence of this humas and to the ameliorating influence. countries and it was a common practice in older of this humans and to the ameliorating influence here; beside the trace the coil is much mark to the ameliorating influence here; besides, were not the Jews of old commanded on the climate of the trees, the soil is much more reto let the soil rest every seventh year? So the work work work were not the Jews of old commanded tentive of moisture and consequently the necessity work work work work. work went on in an unthinking way.

Gradually the idea grew that the soil needed humus, and consequently many farmers allowed a great crop of weeds to grow and account the soil of following closely the principles of dry farming are not so necessary. While there is practically no appreciable difference in rainfall, the farmers of central Alberta will find it to their great crop of weeds to grow and sap all the moisture of the delegates from the west.

Out of the grow and sap all the moisture of the delegates from the west.

Out of the grow and sap all the moisture central Alberta will find it to their advantage to pay It is expected that the Grange will put itself on record considerable attention to dry farming principles.

Years it was soon found that the weeds gained head- hands of farmers in humid districts. It is not that in the construction of a navy.

the principles are new or different from those many of us have studied under humid conditions, but the dry farming farmer has pushed the application of them a step or two further toward their logical conclusion. In the pursuit of the attainment of greater perfection in the application of the principles of dry arming and a deeper study of these principles I wish the members of this Congress every success

Professor J. H. Sheppard, of the North Dakota Experiment Station, in describing the progress of dry land farming in his state, said that there were now twenty-one demonstration farms, the majority of which were in dry land districts. The operation of these farms was proving a splendid object lesson, to farmers on adjacent land as well as to others who visited them, or adopted the culture methods advised in the literature sent out from the various stations. He believed that these farms were increasing the per acre yields of the districts in which they were situated by from 50 to 100 per cent.

Prof. Sheppard ventured the opinion that the demonstration farm is one of the greatest of educational features. In his own state it was proving such and in other sections of the United States and in Canada the same satisfactory results from the establishment of such farms were being obtained.

Prof. B. Youngblood, special agent in charge of farm management investigations in Oklahoma and Texas, United States Department of Agriculture, spoke on "Some Factors in the Development of Dry Land Farms." He said in part: "The principles of farm economy apply alike to the dry land farms and to farms in the humid region, yet, on account of the conditions of soil, climate, population, market facilities and formativeness of the semiarid region, it is not always easy for the farmer hailing from the east to make proper application of economic principles in the west, from the start. Unlike the humid region where the lack of capacity and industry may be overcome in part by the productiveness of the soil, the dry land farmer must be industrious and possess an ability to manage well the affairs of his farm. He must not only know how and when to plant and plow, but he must do these things when they ought to be done, for certain days lost often mean the loss of the crop.

"It means, then, that the following are the fac-

"1. An arable soil.

·· 2. Buying the right sized farm at the right It must be at least large enough to support a family.

"3. Conservation of rainfall by appropriate methods and tillage.

"4. Ample and appropriate farm equipment for the region of the means of procuring it. " 5. The means of existence until the farm begins

'6. An appropriate system of farming."

These were among the most important of the addresses delivered, not by any means them all, but sufficient to give a general idea of the scope and intentions of the congress. In addition to the addresses, interesting displays of products of dry farming districts completed what was probably the most successful Dry Farming Congress yet held in America. The only difference of opinion that arose between those prominent on the speaking list, came when the proposal was made to change the name of the organization, it being claimed that the word "dry" was misleading and damaging to methods of the poorly worked summer-fallow to proposal was voted down by a two to one vote, and

land required a rest and resorted to summer-fallowing portant question that the farmers of Alberta had to whereas the trouble was one of moisture rather than study. Once this is mastered, crop rotation, device-presidents and Geo Harcourt Alberta months. Hon. W. R. Motherwell, Minister of Agriculture whereas the trouble was one of moisture rather than study. Once this is mastered, crop rotation, defertility. In many instances where the summer-fallowing was done unknowingly in such a way as to fall into line of their own accord. Once the principles of the executive committee. The president for the ensuing year is Hon. F. W. Mondell, Wyoming, U. S, A

As it is impossible to publish here anything assumat this meeting, those interested are advised to communicate with the secretary of the Congress, J. T. Burns, 407 Temple Court, Denver, Colorado. Reports of proceedings are sent free to members, or

Dominion Grange Meets in Toronto

The annual meeting of the Dominion Grange will be held in Toronto November 24 and 25. The meeting will be of special interest; (1) Because of the presence of delegations from farmers' organizations in the west to discuss a linking up of the Grange with these organizations; (2) because of the proposal suddenly put forward to saddle Canada, without the consent of her people, with the cost of a navy. R. McKenzie, secretary of the Manitoba Grain Growers Association, will be one of the delegates from the west as opposed to the scheme of naval construction proposed by the Federal government, and will urge mistaken idea that they were adding vegetable matter to the soil and thus improving it. Others set out to use the summer-fallow as a cleaning method.

Where whent were soil before they plowed it down, in the country to the soil before they plowed it down, in the country to as opposed to the scheme of naval construction as opposed to the scheme of naval construction proposed by the Federal government, and will urge the summer-fallow as a cleaning method.

Soil before they plowed it down, in the country to the scheme of naval construction proposed by the Federal government, and will urge the summer-fallow as a cleaning method.

Where whent were adding vegetable matter to the soil and thus improving it. Others set out to use the summer-fallow as a cleaning method. Where wheat was grown after wheat continuously for tries, and it is receiving careful consideration at the the enormous and never ending expenditure involved