

Trade Increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land-Lord Chatham.

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The Hardiness of Alfalfa Under Canadian Conditions A Review of Experiments Conducted in Every Province of Canada But One-Varieties That Have Stood the Test

W HERE alfalfs successed the success of agricul-ture is assured. It is the most nutritions of alundemorphisms for the success of agricul-shundardly than any other field crop with field more shundardly than any other field crop with field more between the of corn. It is highly valued by poulty men. The editors of Farm and Dairy can value of align hay. Its foully debated the feedings of a state of the state of the state of the state for granted, and the only question the field ready reasonably sure of a crop? Will it stand our wins that?

ters? Thousands of farmers in Canada have experiment-ed with alfalfa. Many of these, perhaps the major-ity, have satisfied themeselves that they arrow alfalfa profitably, and are taking advantation of the cop. Others are equally sure that Alfalfa of the be grown under their conditions and have given up tryins. We have often found, however, that in the same community and under apparently the same soil and climatic conditions. some mon are making a first and community and under an new reverter, the same soil and climatic conditions, some men and the same soil and climatic conditions, some men and the same soil trate succeas with Alfalfa, while other failed has neglected some essential condition, the observance of which would have changed their failure to suc-ess. In the Bedford district of Quebec, for in-stance, we found one farmer who was making a great and the source of the same soil of the same source estates of the soil and h. The man who succeeded had limed the soil and h. The man who succeeded frime variety. None of his neighbors had either imed or taken any particular pains to get seed of a good variety. Hence their failure.

Is it use frequent neglect of essential conditions that makes the experiments of individual farmers a tot too trustworthy indication of the adaptability of say no holar section to alfalfa. We can fairly period the section of the adaptability of the section of the section of the section fairly operation of the section of the fairly conclusive evidence as to far hould afford fairly conclusive evidence as to far hould afford fairly conclusive evidence as to far far and the section because of the severity of the winter of 1971-18, which has eliminated several varieties periods of results is pleaned from a series of reports to the Arricultural Gazette, the official mouthplece of the Doming Department of Arriculture. It is this frequent neglect of essential conditions

Alfalfa in the Maritime.

Altain the the Marines. Let us start with the Maritime Provinces. Climatic

bility that it will remain for years. On the higher solis of King's county, affaffa is more mainfactory than in the western part of the provide the provide Prof. J. M. Truman, writing from the agricultural college at Truro. N.S., cays: "Wo have used two warticles of alfaffa in our field plots at the Nova varieties of alfaffa in our field plots at the Nova Variega agricultural College-Ofrimm and Ontario Variega agricultural College-Ofrimm and Ontario mon red clover in adjust pool condition, while com-mon red clover in adjust prove available from we Brunawick.

Alfalfa in Quebec.

Alfaita in Quebec. The cimate of the Province of Quebec is, on the whole, much more severe than that of Ontario. In-that province and the province of Quebec is, on the the Experimental and Experimental, Union similar to the Experimental and Experimental, Union similar to the province through this organizes using a second varieties have been distributed and the second retary, Brother M. Liguori, reports that alfaits thrives well in all parts of the province and under all climates, under the climate of Montreal ass well as under that of Abitibit and of Lake St. John districts: In the Eastern Townships ass well as on the Gauge coast. But the ordinary conditions of success must not be neglected—deep soil, well liked, well-Gaspe coast. But the ordinary conditions of success must not be neglected-deep soil, well tilled, well-drained by natural or artificial means, free from acidity and free from weeds, especially couch grass."

acidity and free from weeds, especially couch grass." Brother Liggori mentions the varieties that have given the best results as one imported from Bei-gium, which can no longer be secured, and the Grimm. With this later variety under good condi-tions practically no failures have been recorded during that four years. Writing from the Oka Arricultural Institute Rev. Pere Athanese reports no winter Aling with the following varieties: Lyman's alfairs, Grimm No. 338, Grimm No. 73, Montana, Drykand and Ontario Varierated. All of the second 72, Montana, Dryland and Ontario Variegated. All of

The Great Farm Trio By Tom Alfalfa

By Tom Alfalta. Corn, clover and cover, Here we have the great farm trio. If I can grow good corn, if soil and climate each triangle and clovers, particularly alfalfa, the favor he herd of good dairy cover, it would take the the ar heavy mortgage to scare me out of the farming game. We tried grain growing. We made money in poultry. Yee, we have even soid strawberries in dozen crate lots. But when it comes to dependability we are town what an admirable trio they are; the corn silager, ich in succulence and carbo cows. What an admirable trio they are; the corn silage, rich in succulence and carbo-hydrates; the clovers rich in protein; the dairy cow able to take the two, assimilate them, balance the surplus of the one against the deficiencies of the other and use were product for which there is always a mar-ket, be it in the form of raw milk, butter or cheese. But we must have all three. The good farmer will fill his siles and his motva, but if he is stocked up with poor cows in his manufacturing plant he will fail of the cows but short es man who is good with cows but short es man who is good with the best and most satisfying and mospin-during success that can come to the farmer of to day. the deficiencies of the other and turn out a of to-day.

these varieties came through the winter without damage, and if the weather keeps on being favor-able four crops are anticipated this year instead of

able four crops are anticipated this year instead or the usual three. At McDonald College, St. Anne de Eellevus, Que, the past wincer bore with musual severity on alfalfa, grasses and clovers. Most of the plots of red clover were killed while a number of blocks of alfalfa, soorn broadcast and in rows, that have survived all winters broadcast and in rows, that have survived all winters since they wers seeded in 1912 and 1913, have been from 75 to 90 per cent winter killed. There were some plots, however, which came through with little damage, and it was noticeable that those which had

some plots, however, which came through with little damage, and it was noticeable that those which had a good covering when winter set in survived out of all proportion to the protection afforded. Reviewing results Mr. Summerby, of the Fleid Husbandry De-year the summerby of the Fleid Husbandry De-imereness of the set of the set of the fin-newere conditions again strongly emphasize the im-portance of leaving a good growth to freese down to hold the snow and to protect the crowns. In pre-vious work with this crop a number of variaties, in-clualing the Grimm, showed themselves to be par-ticularly hardy. This warriety has again shown hardinese, but has been more severely winter killed-strains that are in A number of a war and improved istrains that are in A number of a size and improved pletely repistent to conditions as them, to be com-pletely repistent to conditions a shown, to be com-pletely repistent to conditions a shown to be winter killed at all. Hardy varieties, given good conditions for wintering by making provision for after growth and drinkage, seem to be the most im-portant factors in proventing winter killing." portant factors in preventing winter killing."

Ontario Reports.

There are two reports from Ontario. Mr. Fred Forsyth, Agricultural Representative in Lanark county, writes as follows: "In the county of Lanark we have several alfalfa

"In the county of Lamark we have several alfalfa demonstration plots. These are planted with the Grimm variety, so that we have no evidence as to the relative vitality of different sorts. The plots were put in two or three years ago and to day will average an 85 per cent stand. The purpose of these demonstrations is to prove to farmers that alfalfa demonstrations is to prove to farmers unat analist will stand our climatic conditions providing the right variety is sown. Many farmers had tried to grow alfalta, but failed. The demonstrations, it is hoped, will encourage many to again begin raising this crop-The plots are scattered fairly widely throughout the country, and are thus demonstrating to a wide circle of farmers the lessons they were established toach

Mr. J. S. Knapp, representative in Waterloo county, is brief and to the point when he says: "The Grimm and Ontario Variegated are the only varie-ies of alfain that have given satisfaction in the county of Waterloo. Farmers who have been able to secure seed of these varieties have fairly good stands. Our farmers have practically given up now-log alfair, except where they can secure seed of these varieties." Mr. J. S. Knapp. representative in

A Severe Test in Western Canada.

A Sever Test in Western Canada. Reports from Western Canada emphasize the abso-lite necessity of hardy strains. If alifat is to be stown successfully on hardy strains of the strain worth, of the Manitoba Agricultural Mr. W. South-the store of the Manitoba Agricultural for the strain that out of about 40 different commonly and any real capacity to resist winter killing was one from a Grimm strain, and even in this strain a high percentage of plants were destroyed or considerably weakened. Mr. Southworth reports interestingly on their bredge work as follows: "The alfalfs bowing most resistance to winter (Doutload to a capacity of the strain of the strain of the strain the strain of the str

(Continued on page 21.)