OUR FARM PAGE:

ITEMS OF INTEREST TO EVERY FARMER

millions of dollars in the erection

increase in the demand for metals' for

war purposes with very little addi-

tional expenditure. Modern mechaniz-

ed warfare creates a tremendous mar-

ket for base metals and Canada holds

an exceptionally strong position with

respect to these. Her ore deposits

have been developed to a point where

she has attained a leading position

among world producers, ranking first

property located in north-western On-

tario, the output from which repre-

in the Dominion since 1923. Of im-

portance also was the discovery about

two years ago of a large deposit of

high-grade iron ore about one hun-

dred and forty miles west of Port Ar-

thur in Ontario. This property is now

being actively developed. The develop-

ment of these properties is being fol-

lowed with keen interest, for al-

though Canada has long been an im-

portant producer of iron and steel, her

entire requirements of iron ore have

The new record of 7.743,000 barrels

in 1939 was the fourth in succession

for the production of crude petroleum

in the Dominion. About 97% of the

output came from the Turner Valley

of Alberta where crude oil was first

disclosed in June, 1936. Between nine-

ty-five and one hundred crude oil

wells are now in production in this

field, and twenty other wells are be-

ng drilled for oil. The remainder of

Canada's crude oil production comes

from wells in southwestern Ontario,

the Moncton field in New Brunswick

and Fort Norman in the Northwest

Territories Oil from the Norman

wells is used to supply the fuel needs

of the radium mines at Great Bear

The administration of mineral lands

in Canada is either under Federal or

Provincial jurisdiction, the Provinces

having control of the minerals oc-

curring within their boundaries while

the Dominion Government adminis-

ters the mineral resources of the Yu-

kon and the Northwest Territories.

The Department of Mines and Re-

sources at Ottawa is organized to meet

uses for minerals. It assists the in-

mineral areas and by publication of

detailed maps and reports on these

areas. It follows up these services by

maintaining fully equipped metallur-

gical laboratories at Ottawa, and full

of the transportation in this area.

sented the first production of iron ore perior.

in nickel, second in zinc, third

copper, and fourth in lead.

The Outlook for Wool

What is the 1940 wool allo going to be worth? Such is the burning question put forward whenever two or more sheepmen get together. It is most often asked by those who sold at shearing time a year ago instead of consigning for co-operative sale on a graded basis and who as a result shared not at all in the higher prices ruling after the Declaration of War They know now to their sorrow their neighbours who consigned their clip to the Co-operative Wool Growers got 4 to 5 cents per pound more than they themselves realized by selling it strated again by a project recently outright at shearing time.

Just what wool will be worth year no one can definitely state but the sheepman can rest assured he will get the average price for the year his wool is marketed co-operatively. Last September the Canadian Wool Administrator established a fixed price for wool, namely, 45c per clean pound This order was cancelled in January and it is anticipated the 1940 Canadian clip will be allowed to find its own level from day to day in keeping with outside markets. The fact that one-third of the Canadian wool clip in 1939 was handled by the Co-operative Wool Growers, indicates that a large percentage of the most imporsheepmen have learned from years of experience that they get more on the average for their wool clip by marketing through their own organisation than by marketing through any other channel. If you are going to get the most out of your wool it is important that you not only market co-operatively, but that fleeces be tied properly, and to this end we would remind you that you can secure sacks and paper twine free of charge from the Agricultural Office in Milton.

In conversation with Agricultural Representative J. E. Whitelock, also learned that his office is prepared to co-operate with Halton sheepmen in controlling internal parasites in sheep by staging demonstrations wherever they may be requested. Those interested either in wool supplies or in securing further information proposed demonstrations for control of internal parasites should contact the Agricultural Office in Milton.

Appeal to People

wild flowers have disappeared forever. it has been possible to isolate flowers. The woodman's axe, clearing and cultivating farm lands. erosion of the soil have all been gram. A small farm business, ers, and unless some care is taken by most effective use. the present generation and its suc-

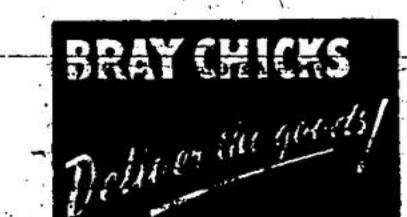
thought on the part of the picker. For erally due to failure to conduct operbe picked at all. Plants like the white or as a result of poor crop yields and trillium are best left alone because they non-productive live stock. cannot be picked without removing all the follage upon which depends the maturing of the bulbous root for the following season's crop of flowers. Other species, like violets and hepaticas whose flower stem rises directly from the roots may be picked at will, brid corn has been widely advertised provided the body of the plant is left throughout southwestern Ontario. undisturbed. Tearing up a plant by The claims have been so favourable the roots to gain a bloom is wantom that many farmers are asking "What destruction and can end only one way is the real value of hybrid corn?" For -the passing of beautiful wild flowers | three years many corn hybrids have from the Canadian landscape. It is been tested at the Dominion Experiagainst reckless plucking of wild flow- mental Station at Harrow and, as a ers that the various horticultural so- class, they have proved conclusively cieties throughout the Dominion make an appeal to the people of Canada.

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GEORGE C. BROWN

Little Chats

Farm Management

One of the striking facts revealed by farm surveys is the wide variain yearly earnings from farm farm. This has been demonindertaken by the Economics Division, Marketing Service, Department of Agriculture, in operation with the Agricultural Economics Department Ontario Agricultural College, Guelph. Detailed records of the farm business year ending. May 30, 1938. secured from 266 operators of bogproducing farms located in Eastern Central, and Western Ontario, cluding records from the Countles of Leeds, Lanark, Grenville, Wellington, Waterloo, Perth, Kent and Lambton. The range in farm earnings the year was greatest in the Kent-Lambton area. Here the variation

earnings of \$4,316, and the lowest farm, which lost \$1,234, was \$5,550. The earnings of the 74 farms visited widely between these two extremes. However, it is a significant that at least one farm had earnings approximately \$3,500 above; avcrage, and number had earnings one, two, and three times greater than average. A similar variation in earnings from farm to farm was found in the Central and Eastern areas visited On 107 farms located in the Counties of Wellington, Waterloo and Perth. the average earnings for the year was \$1,096, with a range expover \$3,000 between the highest and lowest farm. In the Leeds- Lanark-Grenville area, the earnings of 85 farms ranged all the way from a low of

How then can the fact be accounted for that in each of the three areas visited, some farms were highly successful—and some-relatively successful? The answer to question lies largely in the individual Save Wild Flowers farm business manager himself. carefully comparing and analyzing Some of Canada's most beautiful the yearly records of the 266 farms, For many years the system of land factors chiefly contributing to finandevelopment has been destroying the cial success in farming. The first essential is to build up a sufficiently large volume of business, consisting building up cities, close grazing of of a well-balanced and efficiently fields and woodlands, forest fires, and managed crop and live stock proresponsible for the destruction of the matter how skilfully managed, cannot floral beauty of Canada, be very profitable because the differ-The toll has been increased by ignor- | ence between receipts and expendiance or thoughtlessness of persons in tures will not be large, and labour regard to what is left of the wild flow- and capital will not be put to its

Minus) \$645 to a high of \$3,068.

In this study the most successfu cessors, there is the possibility that farm managers were those with live no wild flowers will be left in the Do- stock above average in numbers and quality, supported by a The preservation of wild flowers program featuring yields above averdoes not mean that no one is to pick age of the most profitable varieties them but it does demand a little of crops. Lack of success was genexample, some wild flowers should not ations on a sufficiently large scale

The Value of Hybrid Corn

their superiority over the standard open-pollinated varieties now grown in the district, states G. F. H. Buckey, Senior Assistant, Forage Crops. The major assets of hybrid corn are the mineral producing nations.

(c) increased yield.

ability. During 1939 the Dominion Ex- plants entered production. perimental Station at Harrow conducted tests at several points in southwestern Ontario. In these tests the is asbestos, but the list also Includes hybrids outyielded the standard varie- gypsum, sait, sodium sulphate, magties by a considerable margin. Some by over thirty per cent, though the majority yielded between nitteen and twenty-five per cent more than the

Parmers who are planning to grow hybrid corn for the first time are advised to communicate with their near- of them form the raw materials for est Experimental Station or Agricul- the chemical industries and are thus tural Representative in respect to the of strategic importance in wartime. For choice of hybrid.

turies.

Importance of Organic Matter in Soils

Although by far the greatest fraction of an ordinary mineral soil derived from the weathering of rocks, decomposed rock fragments alone do not constitute a soil, states H. J. kinson, Division of Chemistry, Dominion Experimental Farms Service. The presence of organic matter is necessary in order that this mineral matter may become a soil and grow crops succes-

Most of the soil organic matter is deived from growing plants, but some of it also comes from decomposing andmal remains. In the decomposition of these materials, complex chemical reaction take place which not only give simple compounds such as ammonia and carbon dioxide but also bring about the accumulation of a complex material commonly known as humus Solls containing less than 3 per cent of organic matter are considered to be low in that constituent; those taining around 10 per cent are well supplied. The so-called organic soils, mucks and peats, have very much higher quantities of organic matter, varying from 20 per cent to 80 per cent between the highest farm, which had or more.

It has been observed generally that are more fertile than those of low orthis area were distributed fairly ganic matter content. This constituent has a number of very important with an average for all farms of functions in the soil. One of these is as a storehouse for certain plant nutrients, particularly nitrogen. The decomposition of soil organic matter brought about through the activities of millions of bacteria. These bacteria derive their energy from the humus. and in the process, break it down into simple substances, releasing nitrogen sulphur, etc. in forms in which plants can use them as food. Any cultural practice which will encourage the growth of bacteria in the soil without at the same time causing extreme loss of nutrients will result indirectly in improved plant growth because of the more rapid decomposition of the plant residues and humus which will: take

> Organic matter is commonly added to cultivated soil either in the form of manure, or the ploughing under of a growing crop, a process which known as green manuring. The latter practice not only returns to the soil the nutrients taken up by the growing crop but also enriches the soil with humus-forming material. If the crop being ploughed under is a legume, it is also possible that considerable nitrogen which has been obtained from the air by the legume is added to available nitrogen supply of the soil The application of barnyard manure also adds organic matter to the and considerable plant food, especially nitrogen, phosphorus and potash, and in addition, it increases the active bacterial population of the soil, the benefits of which have been pointed

> Orgame matter in soils also improves their physical condition. On clay soils it has a lessening effect, giving better drainage and aeration. On sandy soils, it tends to bind the particles togetner due to its greater cohesive power than that of sand. It also increases the water holding capacity of the soil, a factor that is important in districts of low rainfall. In general, it improves tilth end thus facilitates drainage, root

extension and bacterial activity. The effect of organic matter on the physical condition of the soil is so marked that it is claimed that the presence of 15 per cent to 20 per cent of organic matter almost completely During the past twelve months hy- removes the distinctions between sands,

Canada's Mineral Resources In Wartime

The mineral resources of Canada rank among the greatest in the world. Rapid and successful development of these resources, especially during the past quarter of a century, has given the Dominion a leading position among (a) greater vigor, (b) uniformity, and the outbreak of the war in 1914 Canada's mineral production was valued Vigor is expressed in the denser at slightly less than one hundred and root systems and more robust stalks twenty-nine million dollars. In conof the hybrids. The dense root sys- trast with this figure the value of tem provides greater anchorage for mineral production in 1939 reached a the plant, and since it penetrates the new record of over four hundred and soil more extensively in all directions, seventy million dollars, and during the the source of food supply for the plant past decade mining has become Causis much increased. This all has a ada's second greatest primary indusgreat effect upon the plant's growth, try. New records were set up during making it robust and better able to 1939 in the production of gold, copper, withstand adverse conditions. Hybrid nickel, zinc, antimony, cadmium, crude corn will not be as readily uprooted petroleum, natural gas, gypsum, sulby winds, or heavy rains as ordinary phur and lime. The gold output which corn. The stalks being sturdler are was valued at over one hundred and less apt to break over or lodge. It eighty million dollars, passed the five also appears to withstand corn bores million ounce mark for the first time infestation to a higher degree, not in history. The Domnion's known rethat it is resistant to corn borer at- serves of gold ore are sufficient to astack, but the sturdy stalks are able to sure the present rate of production tolerate more borers without breaking for many years to come and new sources of the metal are being steadily Probably the greatest asset possessed disclosed. During the past year a toby hybrid corn is its high yielding tal of twenty-four new gold milling

Canada produces a wide range of the non-metallic minerals, chief of which nesette dolomite, sulphur, rock wool, nepheline avenite, clay products, and other atmetural materials. For the most part these minerals occur abundance but with the exception of gypsum and asbestos are marketed mainly within the Dominion. Many instance, 45% of the salt output is

used for this purpose. In the last war Canada's production of the leading base metals in refined form was of very small importance Truth comes down to us from the but today the opposite is the case, and past, as gold is washed down from the most of the base metal output is now mountains of Sierra Nevada, in min- refined within the country. This ute but precious particles, and mixed change has been brought about by an with infinite alloy, the debris of cen- abundance of cheap electrical power and by the expenditure of hundreds of

use of these is being made by mining operators throughout Canada, Mat ters relating to plant operation, ore treatment processes, alloys, and tallurgical problems of all descriptions are dealt with daily. Enquiries as to suitable types of equipment for new milling operations are handled. most of the gold mines in Canada smelters, refineries, and other metalwhich have entered production during lungical plants, and in the developthe past decade are using ore treatment of mineral properties. The ratment processes in some form or other ed capacity of most of these plants that have been devised in the Departcould be enlarged to meet any likely

ment's laboratories. The variety and abundance of Canada's mineral resources places her in a favourable position to help the cause of the Allies by supplying in large quantities their mineral and metal requirements for war purposes. Canadian mining industry, which played such a notable part in helping the Dominion to fight the depression of a few years ago, seems destined now to

make a still greater contribution to the Considering iron a base metal, perhaps one of the most significant developments in the past year was the entry into production of an iron ore

wider struggle against dictatorship

arm radio listentes should TUNE IN TO ANTI-WEED CAMPAIGN PROGRAMME

During the first Great War, weeds became a serious menace to Ontario farmers. In order to prevent a recurrence in this war of that situation Provincial and Municipal authorities are co-operating with farmers in staging a serious weed campaign this year. The OBO Farm Broadcast Department plans to do its bit in this worth-while endeavour by having someone in close touch with the weed campaign interviewed by Don Fairbairn on the Farm Broadcast for the Ontario region every Thursday for the next few weeks. The Farm Broadcast is on the air Monday to Friday inclusive over stations CBL Toronto, CBM Montreal, CBO Ottawa. and CHLT Sherbrooke, 1.30 p.m. EDST (12.30 p.m. Eastern Standard Time).

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