onservation

a monthly bulletin published by the Commission of Conservation, Ottawa, Canada.

OL. VIII

FEBRUARY, 1919

No. 2

Manure Compared

its Show Clearly the Advantage of Using the Former

During the war very high prices we prevailed for commercial ferti-Even then it has been almost ossible to obtain some of these erials, and prices are still high. mers should, therefore, pay more ntion to farmyard manure. ild be produced in as large quanes as possible and when produced uld be applied in a way to elime loss and waste, or at least to ree these to a minimum. This imthe adoption of intelligent meds of handling. Experiments coned in this country at our experintal farms and agricultural cols prove that where at all practiciment along this line extending er five years and recently concluded tion, shows decided profits in our of the above method. The tation followed was corn, wheat, The manure was applied on land before ploughing for the corn. more manure was applied for spread on the sod in December d January, while on each day an al amount was placed in low flat les in the open to be spread in the ing immediately before ploughing. distinct comparisons between at was called "stall" manure and manure demonstrated that me was an average gain of 4.1 d 490 pounds of clover hay per nere on the stall manure over the yields on the yard manure. Valuing the ps at the prices prevailing at presthe gain amounted to \$11.60 Il manure applied directly to the nd was worth \$1.45 more than re which had been piled and aped in spring. This gain was made nout expense. Indeed there was less handling of the manure. Was not worth while?-F. C. N.

The Canadian Department of Fishs and the United States Bureau of

Two cars of flax seed have been pped from the Tilbury district in ario to Belfast, Ireland.

alue of Stall and Yard To Secure British Timber Trade Dealers Must Meet Market Demands

Active Competition with Timber from Northern Europe Makes it Necessary for Canadian Dealers to Overcome the Scant Size Difficulty

An authority on the timber trade, dustrial stimulus alone, but must be in referring to Canada's opportunities brought into effect as the result of for obtaining orders for reconstruction work in Europe, says that the greatest difficulty which manufactured lumber from North America has to overcome in the Old Country is the problem of

"The 'scant size' difficulty," he continues, "arises when we deal with scantlings, dimension stock, door stock, and floorings. For instance, a Britishmade door manufactured from 2-in. Swedish or Russian stock measures 13/8 in. in thickness in its final finbe the best method is to haul the ished state. No 2-in. door stock mure to the fields as made. An exgive a finished door 17% in. in thick-The rules and customs governthe Ohio Agricultural Experiment ing the manufacture of lumber generally in Canada and the United States allow a greater difference in the actual and nominal sizes than obtains in Sweden and Russia.

"As far as British Columbia is concerned, the bulk of the lumber heretothe the wheat or clover crop. Eight fore imported by the United King-ns per acre of fresh stall manure dom has been in the form of large

(Continued on page 8)

Multiple Production

There is no apparent reason why shels of corn, 1.3 bushels of wheat fully co-ordinated development should not look toward a fairly complete recovery of at least the leading byproducts in coal, and this prospect would definitely entail the doubling, f not the trebling, of the fuel efficiency acre, or, in other words, the fresh derivable. This means that our present annual coal output could be made to more than double its service, or, accepting the current service requirement as a standard, that less than half the output can do the present work wise to take thought and to learn from and in addition make heavy contributions to the supply of fertilizers, motor fuel, and chemical products. The aggregate loss, on the basis of this aggregate loss, on the basis of this presumany to go were person of control of the person of th theries are planting chinook salmon a billion dollars a year, or over in portions of eastern Canada. The for each inhabitant of the United States. Of such measure is there" calls forth feelings of national the average man's pecuniary interest pride. Bringing them over here will in the full utilization of coal.

public interest in the matter. The means for starting toward this accon.plishment lie in the direction of enlarged municipal gas plants, which will handle all the coal needed by the community with the production of solid fuel, gas, and the by-products, ammonia, benzol, and tar.

production, therefore, coal can be forced to render up its full quota of service. This is a new economic of the tenement. They are a damn-force, one scarcely recognized as yet able architectural invention, and their as a principle which may be constructively applied. Yet the principle of multiple production has been gaining headway for years, and by means of it the multiplying needs of man are being met from practically a stationary range of raw materials. The rôle of multiple production is rapidly enlarging; it represents a principle that must come into play more and more to relieve the strain falling upon tional efficiency. natural resources and transportation. Through the agency of chemical knowledge it serves to create a divergence of products, each the starting point of a second diverging series. The prin-As Applied to Coal and oil; only by the word of the production is peculiarly applicable to coal and oil; only by the word of the production is peculiarly applicable to coal and oil; only by the word of the production is peculiarly applicable to coal and oil; only by the word of the production is peculiarly applicable to coal and oil; only by the word of the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the production is peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicable to coal and oil; only by the peculiarly applicabl by the use of this principle, brought Efficiency Can be Doubled, if not Trebled into effective action under the guide by This Means ance of a constructive economic policy, can adequate value be extracted from these power materials .- C. G. Gilbert and J. E. Pogue of the Smithsonian Institution.

WHY IMPORT WEEDS?

The suggestion that seeds of the Flanders poppy should be imported to Canada is carrying sentiment to a dangerous extreme. The plant is, after all, only a beautiful weed, a a former experience of a similar nature. The blueweed, or Bishop's Curse, was imported several years ago, there" calls forth feelings of national n the full utilization of coal.

Improvement in coal utilization can Canadians and will add another to our not be relied upon to come from in- already long list of plant nuisances.

Housing Reform and the "Black Spots"

Conditions Cast Discredit on Civilization
—Humanity More Important than
Material Wealth

The important bearing that better housing and town-planning have upon the physical condition of our people, cannot be too often or too strongly emphasized. As far back as 1908, the writer stated that:

"There are also many other lines upon which improvement can be made, such as the housing of the poorer classes, preferably in detached houses nmonia, benzol, and tar.

Through the principle of multiple crowding, and I would go so far as recommending legislation to prevent, under certain conditions, the erection erection should be carefully considered. Space is what we require, so that fresh air and sunlight may be enjoyed by all."

We may consider the question from different standpoints, the architectural, the social, the economic, but the allimportant one is that of the health of the individual and all that health means as the important factor in na-

It is a reflection on our governments and lawmakers that it has taken the great world war to stir them into activity on these and other questions which they had never seriously considered heretofore, because they failed to realize that health was the nation's greatest asset. The people themselves constitute the nation's wealth-not the horses, cattle and sheep, nor yet the raw materials, nor the products of agriculture, but the healthy men and women, the physically fit, these give worth and value, these increase output and, when the test of battle comes, win the victor

Severe as the test and strain of the last four years have been, there are greater difficulties to be met if we are to rise to the problems of a lasting world peace-mankind must be the first consideration of governments— man, physically, socially and intellectually, must be their first and constant care. We must maintain a high standard of national efficiency by the adoption not only of wise measures. but we must support them by substantial financial assistance, accompanied by a central state authority to control, advise and co-ordinate. One of these measures must be sanitary homes, reasonable in cost and in healthful environments.

(Continued on page 10)