putting their own shoulder to the wheel.

agriculture, they have reason to be thankful

Dominion and Industrial Exhibition,

The Dominion Exhibition for this year will be held city of Toronto, and the managers of the latter insti- ject, tution are putting forth all their energies to make the joint effort a complete success. The grant of \$10,000 which accompanies the Dominion Exhibition has en cost not to be considered. abled the Industrial Association to largely increase the value of the prizes, especially in the live-stock and agricultural departments, and large additions and im. The first lot were fed corn meal cooked with twice that in any papers which I have written for these insti-provements, involving an expenditure of \$40,000, are the amount, by weight, of skimmed milk; the second, tute meetings, I have been careful not to advocate ing the confident expectation of the managers that in , whole milk, equal in weight to the two kinds of meal. the merit and completeness of the display of agricul. The following are the conclusions of Mr. W. S. farms I inspected, and found that whenever a partial tural products of the country the coming exhibition Devol in his report will surpass all its predecessors. Apart from the ex hibition proper, a series of novel and amusing attractes of the three rations tried. tions has been provided, consisting of displays of fire (2) That pea-meal and skimmed milk is the best of works, scientific representations of naval and military the three rations tried for rapidly increasing the is in accord with that of many of the most progressive farmers in other countries where agriculture gressive farmers in other countries where agriculture horsemanship, and other specialties. The Governor-1 (3) That the ration consisting of pea-meal, cornday, 6th of September.

is a joint stock concern, and that the profits derived value, and the third the least valuable. from the holding of exhibitions go into the pockets of 4). That for the production of fat within the body Association is composed of gentlemen elected each pears to be the best adapted. year from various agricultural, horticultural, live stock, In regard, however, to the cost of production the poultry and dairymen's associations in the province, conclusion reached will not be a safe guide for Onta no member of the Association can occupy a position larger quantity of fat in proportion to the lean in connection with the Association to which emolu- Our own Ontario Experimental Farm might do from the Exhibition must be expended from year to us for pork with a large proportion of lean to the fat. year in improving the grounds and adding to the ac Will our good college tell us, as the result of expercommodation. The grounds are the property of the iment, how best to produce this? city of Toronto, the Association having a lease of them for two months in each year, for the purpose of hold." ing the Exhibition. Two officers only, the secretary and the treasurer, receive salaries. All the directors give their time to the enterprise gratuitously, and! some of them at considerable pecuniary sacrifice. at several of the farmers institutes held last winter, plying them during the whole milking season with an With the exception of two small grants from the West. The lesson which our farmers have been taught by the abundant supply of milk-producing food. Again, ern Dairymen's Association and the Dominion grant drought of the past season will surely not be unheeded near the town of Simcoe we inspected another large of this year of \$10,000, no preuniary aid by way of by them in time to come, as soiling crops are espegrant or bonus has ever been received by the Associa | cially valuable in such a season. - En. As the quantity and quality or crops depend upon the fertility of the soil, so does the condition of our source whatever except from voluntary subscriptions domestic animals depend upon the quantity and qualreceived from the citizens. The Exhibition has been ity of the food which the soil produces.

up and doing, and thus trying to mend matters. In-, run from the first entitely on its merits as an institudeed, this is the most perfect antidote for grumbling tuon for the advancement of agriculture and the indus that has ever been discovered. Those only who have trial arts, and it rests its claims to the support of the tried it know how well it works, and if those who public on its proved ability to bring together a comhave not tried it would only do so once, they would, plete collection of the best products of the farms, the specis. never, like the man whose cart was stuck in the mud. (factories, and the other productive industries of the cry to Hercules to come and help them, without first country, and provide the necessary facilities to induce the public to come and examine, and study, and learn, The present wave of depression will not last for and be benefitted by the teachings of the great object of feeding, or to say much about the influence of food ever. As surely as the tides rise and fall, so surely do lesson thus afforded. The Exhibition opens on the producing and milk giving animals of the farm. The prosperous and adverse times come and go, and if 5th September, and continues till the 17th. Those stockmen and dairymen can assure themselves, that, who fail to attend it this year will undoubtedly miss an I men are no longer of an experimental character, but they are doing better even than those in other lines of exhibit the extent and value of which has never been are based on the correct laws of science. Successful surpassed in Canada.

Feeding Swine.

The Ohio Agricultural Experiment Station has been in conjunction with the Industrial Exhibition of the making an experiment in feeding swine with the ob-

- I. To produce flesh at the least cost
- 2. To produce greatest weight in the least time,
- 3. To produce best edible lean meat regardless of cost and time.

provements, involving an expenditure of \$40,000, are the amount, by weight, of skimmed milk; the second, being made to the already commodious buildings. pea meal cooked with twice the amount, by weight, The Secretary, Mr. Hill, states that the entries to of skimmed milk; the third, equal parts by weight of clear of what might be termed mere theory. hand quite exceed those of any previous year, justify corn meal and pea meal, cooked with a quantity of noted carefully during the past seven years in all parts

- (1) That corn meal and skimmed milk is the cheap
- General will formally open the exhibition on Tues meal and whole milk is least valuable of the three for any purpose for which the experiment was under-duce a higher average weight at a given age than peo-taken. For the production of lean meat also the first ple who depend alone on pasture. We find that Stew-The idea is pretty general throughout the country taken. For the production of lean meat also the first that the Toronto Industrial Exhibition Association | ration is the most valuable, the second ration next in
- the promoters. Such, however, is not the case. The cavity (omentum and leaf fat) the second ration ap-

and from the Toronto Board of Trade and the City 1710 conditions. The corn meal was estimated at 80 Council. Each of these budies sends delegates to the cents per 100 lbs , and \$1 67 per 100 lbs. for the peaannual meeting of the Association, and from these meal. Here in Ontario we can get peas oftentimes individual cases could be given establishing the posidelegates the twenty directors are chosen. The As- cheaper than corn, under these conditions the ration sociation holds a charter from the Provincial Govern- of pea-meal and skimmed milk would be the most ment, which charter, among other things, directs that favorable in every way, except in the production of a

ment is attached, and that all the profits derivable good work here. The pork merchants are calling to

The Advantages of Soiling.

BY JOHN J. HOBSON, MOSBOROUGH, ONT.

This very practical paper was read by Mr. Hubson

As the quantity and quality of crops depend upon !

The variations in domestic animals which have tended to produce the best breeds of sheep and cattle, have been largely brought about in two ways cious selection of animals to breed from and liberal feeding coupled with careful treatment in other respects. There is but little use in studying up pedi grees and buying high-priced animals unless the farmer at the same time feeds liberally. There is no use at this day of enlarging upon the advantage it is to any farmer to have a correct knowledge of the art principles of feeding as practised by our best stock breeders and feeders have not now to learn the importance of keeping their stock warm, and comforta-bly housed in the winter, and protected during the changeable weather of spring and fall, and that they thrive best when they have a full supply of nutritious food during the whole year.

Now, if what has been stated is correct, it may be well to consider what is the best way of bringing about those desirable results. And my purpose is to try and show in this paper that soiling, when properly carried out, would be an important factor to that end, and would as well in these days of keen compe tition, by greatly increasing the productiveness of the soil, place us in a better position to hold our own with the competitors of other lands. I may here say any system which I have not in a greater or lesser de gree practised myself, or, in other words, I have kept of Ontario the practice and the system followed by system of soiling has been practiced, that in all cases the results were most satisfactory, and in no case did any farmer speak of returning to the old plan of depending solely upon pastures for summer feed. And it is to be borne in mind that the experience of these occupies a leading position relatively with other in dustries. We find that the German and French beefgrowers adopt largely a strict soiling system and proart, the author of the best work we have on cattle feeding on this side of the Atlantic, states that the English have adopted a system of beef-raising upon a partial pasturage-soiling and grain-feeding combined, and the result is an average much greater than is produced by pasturing alone. In the Eastern States it is very commonly practiced, and with the most sat-And on all high-priced land, near isfactory results. towns and cities, both on this continent and Great Britain, it is the universal custom to feed the cows which supply these places with milk, on the soiling system. I may still further say that any number of tion which I have taken, that on the best class of tillable land in Ontario a partial system of soiling can be carried on with the most satisfactory results, and with largely increased profits as compared with pasturing. One or two cases it may be well to mention. Some years ago, when driving through the county of Oxford with Mr. Drury, M. P. P. for one of the ridings of Simcoe, we called at some of the cheese factories. among others one at Innerkip, and wishing to know a little more about the cheese industry, we called on Mr. Malcolm, a most intelligent farmer fiving near by. When speaking of the season's returns he informed us that his whole herd of cows yielded an average of \$60 in the season. This being so much higher than the average of even the best herds, we wanted to know how this was brought about. I have never for-gotten his reply. He said that, in the first place he elected good cows, and then he was careful in supherd of cows, kept for supplying the town with milk. From this herd was realized even a much higher aver-The same thing again-soiling was the secret of

Just one more instance will I mention.

Mr. McKellar, on the Richmond road, near Ottawa, who sends in milk to Ottawa of the annual value of from

\$8,000 to \$10,000—the average annual seturns from

the success.