a whole, is in a primitive condition. In relation to | separately, but both combined. Theory a one cau-English in rkets, therefore, and the prospects and protits of the Brit sh farmer, my persuasion is, that year by year, our transatlantic coisins will become less and less able, except in extraordicary seasons, to sand large supplies of wheat to our island ports. And that when the virgin freshness shall have been rubb d of their new lands, they will be unable, with their present knowledge and methods, to send wheat to the British market so cheap us the more skillful farmers of Great Britain and Ireland can do. If any one, less familiar with agriculture, doubt that such must be the final effect of such an exhausting system. now followed on all the lands of North America. I need only inform him that the celebrated Lothian farmers, in the immediate vicinity of E inburgh, who carry all their crops off the r land as the North American farmers now . o. return, on an average, t n tons of well-rotted manure every year to each acre. while the American farmer returns nothing.'

Such is the estimate of our position and prosp ets. form d by one who is well qualified to judge, and our own experience will soon attest its truth. The question now is, shall Canada mai tain and advance her status, or shall she retrograde? There is not a man here who does not respond " we shell not be second in degree to any farmers in he world, and our country shall be as pro perous as theirs.

I would not be understood as wishing to underval ue in the least degree the labours of the early settler. H s toils and privat ons are written, indetibly, on the page of his cou try's history. I have not fived 22 years in Canada without knowing some hing of them, or be unable to appreciate them. When I look around me and see so many venerable looking men, whose grey hairs gather to the olden time, the imagination can portray very different scenes from those which now meet our view. There are those here wh can look back to the time when the only building on the place where Coborg now stands, was the old bakehouse, where supplies of bread were obtained by the few seafaring men who crept along the coast, with their scanty cargoes of merchandice or military stores In those days there were none of the floating palaces which now minister to the ease and comfort of travel-But if discovery and progression have been rapid, it is because the first steps were taken so securely by the "Pioneers." The solitary axe in the wilderness seemed but a hopeless instrumentality, but it was a sure precursor of our present prosperity. The jaded ox team of the early settler, winding its way through the almost tractless forest, like a forlorn hope, was an earnest that to day the Iron horse would with gigantic strength, and with almost the speed of lightning, dash along the remotest parts of the Province.

To return to the subject of agricultural education. It has been already hinted that for the learned professions, thorough training is imperative. This is also the case with every trade. A man is not deemed com petant to make a coat or a shoe, who has not served an apprenticeship of several years. Yet men are ex pected to manage farms who are mere tyros in experience, and in a great measure ignorent of the science of agriculture. If the next generation of farmers could be well educated in their profession, it is almost impossible to estimate the vast change which would tabe place in the world's progress. What is needed is, Education, in the true and proper sense of the term, namely, the through training of the mind with a spec-life, and it is only fair that others should go through tal reference to the practice of Agriculture. It includes the same ordeal, Hint to them that even they might the theory and practice of the professions, neither be benefitted by the experience of others, and they

not make a man a good farmer. In order either to do work well or to be fitted to di ect others in the performance of it, a farmer ought with his own hands to have gone through the process. A young man, when commencing his course, should begin at the rudiments, and progress step by step to its completion; doing with is own hands daily, the labour in each department. But together with the correct practice of farming, he must cell in the aid of science in order to make him a good armer. Science must assist him by telling what sustenance each kind of crop requires, whether it be organic or inorganic, and from taieful analysis of the soil, whether such subtances be among its component parts, and in the necessary proportions. No amount of merely practical skill can in a leases indicate this; science alone can determine it. How often is the merely practical man bitterly disapointed when, after preparing a field in bis usual way, he finds that the crop talks far short of bis expec ations. Such failures cannot be a counted for by any incidental and obvious causes; there is the want of something to complete the amount and kind of food necessary for the cop, but he can't tell what that something is. Here science must aid him, or be will be left to grope in the darkness and mist of uncertainty. We learn much from the book of experience but its teachings are vague and uncertain, unless we are somewhat acquainted with the laws which regulate the universe. A physician practising his profession in ignorance of general principles, and trusting to his x erience, might avoid doing much miscrief in ordinary cases, but in those of complexity and peril, he would be completely at sea and utterly helpless. The like case is that of the farmer who has no scientific knowledge. He may indeed wish to read c rrectly the laws of the physical world, but this he cannot do accurately without science. This is the difference between the empirical and the scientific physiologist. The empiric is contented with observing and recording the resulting fact, while the scientific physiologist mu t ascertain the manner in which physiological laws operate. The attention of the one is direct d to results in the improvement of his art, and that of the other to the enlargement of his s ock of knowledg. The e is a strong tendency in those two methods to combine and unite in one grand result. That they do combine is unquestion-All science is true, and the result of the ably true operation of the great principles which it teaches must be exactly in accordance with it. Now, the object of the science of agriculture is, to construct a scheme of knowl dee which shall not only explain results, but be a guide to the evolution of correct systematic practice. This identity of result is not m rely important as respects the discoveries and improvers, but to man as man, elevating him morally and intellectually, and providing largely for his temporal wants.

It is often painful to witness the apathy wh ch exists in reference to the acquisition of agricultural knowledge. Worse than this is the hostility of many practical men to what they term "Book-farming." They seem to have an instinctive horrer of all knowledge but that which is acquired by themselves in their own sphere of observation. And they have no idea of imparting the benefit of their experience to others. They selfi-hly forget, that they have learned something, of which at the outset of their career, they were iguo ant. They say that they had to acquire their stock of kowledge from experience through