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EDITORIAL.

NOVA SCOTIA'S SUMMER COURSE FOR TEACHERS.

" Educational systems must adapt themselves to the spirit and needs of the age, else they will are intended to serve. The present is an age of industrial activity, and the vast majority of public-school pupils are interested in and will devote themselves to the so-called practical pursuits. Applied science ought, therefore, to occupy a prominent place in every school curriculum. The problem is how to secure a class of teachers who can present the various subjects of the school curriculum in such a way as to relate them to the practical pursuits of life—a problem more easily stated than solved. Nevertheless, there are teachers who, realizing the problem, are seeking means by which they themselves can learn more of those things which go to make up the environment in which their pupils' activities will be spent."

Thus, briefly and pointedly, does the preamble of the initial announcement explain the need and purpose of the annual midsummer school for teachers, which has been inaugurated at Truro, Nova Scotia, at the affiliated College of Agriculture and Provincial Normal School. The course this summer will last a month, commencing July 14th and running to August 13th, comprehending field excursions, laboratory work and lectures in nature study, school-gardening, agriculture, horticulture, biology, agricultural physics and chemistry, geology and manual training. In addition, teachers in attendance will have an opportunity to take a special course under an efficient instructor in physical drill, qualifying them for a diploma of efficiency in teaching this subject. Should attendance warrant, classes in music and photography may also be provided, and facilities cream, near cities and towns with a growing or chemical study.

Scotia teachers may qualify themselves to receive junct of hog and cattle rearing. the Nova Scotia Government will pay transporta- future. Winter-wheat-growing is still one of the tion charges of all Nova Scotia teachers who features of Western Ontario farming. Siloes are an additional week or two of vacation may be increased area of the great food-producer, corn, obtained. Tuition to all students will be free, has been planted. The fields where the plants teachers in Nova Scotia schools, anyone from any attention must still be paid, in order to obtain of the Maritime Provinces who is interested in more certain and reliable supplies.

atural science may enroll.

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cation can produce but a modicum of result. The training of the teachers, and Nova Scotia, in it in the right way.

THE PROCESSES IN THE SOIL.

The country is frantically busy producing a crop. Not merely are men and horses at work, but the soil itself is in the throes of myriads of busy forms of animal and bacteriological life, assisted by chemical processes. Organized compounds, such as are contained in the soil, and manures, are being attacked and resolved into their original elements, or united with some other elements to feed the growing crops. The soil, if we could see it with the naked eye, would reveal, during these warm days of summer sunshine and rains, a busier factory than any raised above the surface, utilizing a greater amount of horsepower energy than is employed, and accomplishing a greater amount of creative work than is produced in all the factories of man's creation.

To feel this, to understand the conditions that make for the favorable progress of these activities, and to adjust sowing, plowing, cultivating and cropping, so as to get the most out of those processes, is to be a scientific and successful farmer.

AN IMPROVED CROP OUTLOOK.

The central portion of Western Ontario, with London as a center, may be taken as a good representative of the best farming districts of Eastern Canada. As yet, most of the farms are devoted to general agriculture, with an increasing tendency to specialties, such as fruit, milk and will be afforded for special or advanced students population, canning factories, and establishments wishing to pursue any definite line of biological for the output of condensed milk and other special milk products. But the cheese and butter fac-By attendance at this summer school, Nova tories are still the great stand-by, with their adthe only necessary expenses being for board, which are already above ground present a most promismay be secured at \$3.00 to \$3.50 per week. ing appearance, though we hear reports of some While the course is arranged primarily for the defective seed, to the production of which, greater

Winter wheat survived the period of snow and The personnel of the faculty is ample guaran- frost fairly well, though with a scant top, chartee of success. Principal M. Cumming, of the acteristic of recent years, but a few weeks of ex-Agricultural College, as Director, is to be as- tremely cold nights, with drying winds, told sisted by able members of the College and Normal severely upon it; and this, with the general late-School staffs, as well as by Mr. John Dearness, ness of the spring and backwardness of the sced-Vice-Principal of the Normal School, London, ing generally, had a most depressing effect. A Ont., who is to lecture in Biology and Nature couple of fortnights ago the outlook was decided-Study. The Director is to be particularly con- ly gloomy, and people were becoming haunted gratulated on securing the services of Mr. Dear- with dreams of more crop failures and food ness, who is a man of rare pedagogical experience shortages. But all this is now changed. Through and efficiency, as well as a pioneer champion of the magic influences of frequent showers, sunmature study and natural science, in the adapta- shine and warmth-bounties from the hand of a The inauguration of this summer course marks nessed than during the past three weeks. The toward coming generations exactly as a father The inauguration of this summer that a data of the spring grains sprouted and feels it a duty to see that his children do not another splendid forward step in Nova Scotia's oats, barley and other spring grains sprouted and feels it a duty to see that his children do not

educational policy. As the twig is bent, so is carpeted the ground with unexampled rapidity, the tree inclined. Without interesting the public- while the improvement in pasturage was simply school children in agriculture and rural life, all amazing, coming to the immediate and welcome efforts at agricultural-college and collegiate edu- relief of thousands of head of live stock, some of which had been facing all but empty fodder mows. root of the rural-education problem lies in the In a few fields of spring grain, on poor knolls, the grain shows a yellow tinge, evidence of insect fail to profit as they might, and, on the other common with Ontario, Massachusetts, and other depredations in the roots or stalks. The new hand, fail to fully enlist the support of those they enterprising Provinces and States, is going about clover presents a splendid appearance, and the old timothy fields show an excellent stand, the bottom being already so thick as almost to preclude the possibility of failure.

The changed outlook has been most inspiriting, especially in conjunction with the good prices that have prevailed for live stock and most farm products. Compared with the general report of the Ontario Bureau of Industries, published last week, the Western Ontario situation appears to be rather especially favorable; but in other districts, corresponding improvement may be quickly brought about with favoring weather conditions.

Nor is the good news of Ontario alone. From the extreme eastern Province of Nova Scotia comes recent word that the outlook in that region was never so fine as right now. "I never saw such clover," writes Principal Cumming, of the Agricultural College. "Came through the winter splendidly. We also have some good reports of alfalfa, though poor ones, too. season for seeding has been unsurpassed. Now, I'm hoping for a continuance of the favorable weather, and then we'll tell you what can be done down by the sea."

EVERY MAN'S DUTY.

At a conference of eminent men, representing all walks of life, convened in Washington, D. C., lately, to consider ways and means of preserving the national wealth, James J Hill offered the following observations, which, although the situation in Canada is less acute than in the States, are already of ominous portent to us. The gespel of economizing national resources needs preaching everywhere:

"Within the last forty years, a great part of the richest land in the country has been brought cultivation. We should, therefore, in the what is designated the "Rural Science Diploma," implies the growing of grain and fodder crops for same time, have raised proportionately the yield entitling the holder to an extra Provincial grant. feeding purposes, the residuary product of stable of our principal crops per acre; because the yield In order to minimize the expenses of attendance, manure going to the enrichment of the soil for the of old lands, if properly treated, tends to increase rather than diminish. The year 1906 was one of large crops, and can scarcely be taken as a standcomplete the course satisfactorily; and, further- rapidly on the increase, and, profiting by the ex- ard. But the average yield per acre was less than more, under Regulation 138 of the School Law, perience of the past and previous years, a greatly in 1872. We are barely keeping the acre product try now ranges from 121 in ordinary years, to 15 bushels per acre in the best seasons. And so it is on down the line.

"We are robbing the soil in an effort to get the largest cash returns from each acre of ground in the shortest possible time, and with the least possible labor.

" I have endeavored to outline some of the principal issues at stake in the better conservation of our national resources, and especially that one about which all the others revolve, and by whose fortunes we shall eventually stand or fallthe land itself. They are for us, quite literally, the issues of national existence. The era of unlimited expansion on every side, of having but to reach out and seize any desired good ready provided for us by the hand that laid the foundations of the earth, is drawing to a close.

"The first task, it seems to me, must be to tion of which, a more inspiringly suggestive and tion of which, a more inspiringly suggestive and the substitution in the subs tion of which, a more inspiringly suggested.

formation in the wheat fields has never been with lic consciousness; to make men realize their duty helpful instructor is probably not to be found.

The formation in the wheat fields has never been with lic consciousness; to make men realize their duty