experience in corn-growing a thorough cultivation of the soil is the first essen-To get the land thoroughly pulverized a spring tooth or disc harrow is recommended, or some kind of cultivator that will do the work well. In a great many districts, and in fact it plowing. The plan of plowing down a but if well rotted apply in the spring. If the land is sandy or a sandy learn the sod is plowed in the spring after adding a liberal coat of manure.

The growing of a corn crop is conrespondents mention this being done about the practice being a good one, tion. cleaned before it is planted. In preparing the land it is considered to be ling agricultural teachers, who would

finer condition.

plant it with the seeder in drills from to assist their children at home in folgrains about six inches apart. Where way, varies somewhat. constructed harrow is easy to make.

By T. C. Wallace (Wallace & Fraser), St. John, N.B., and Toronto,

Much interest attaches to Prof. James' paper on "The Relation of Agriculture to our School System," and must be to open the children's mind I may be pardoned for making a few

plowing the clover sod in the fall if often be made to fit the season of

While it is true that an attempt at planted in hills so arranged that it can schools would almost surely be a total be cultivated both ways it may be a failure, the benefit to be gained from good plan to make the growing of a the general principles of scientific ful mind on the subjects of its sur-crop of corn a kind of scavenger for agriculture to the farmers' children roundings in life, and as it develops weeds, but we are somewhat doubtful must result in great good to the na-

The coin will have a much better Another plan, and possibly one chance if the land is thoroughly more easily introduced quickly, would Another plan, and possibly one be the employment of a staff of travel a good plan to roll the land a couple go from district to district giving these of times. This would certainly help talks or lectures in the schools The to pulverize the land and make it in attendance of the parents of the children at these school talks could be In growing corn for the silo and encouraged, and thus much good could for fodder a common practice is to be done as they would be thus enabled three and a half to four feet apart with lowing up the themes in a practical In the city schools the pupils the corn is planted in hills four or five get a much better education than in grains to the hill is about right. It the country schools, and it is notice is usually planted in the hills by able that when a well educated, city hand or an ordinary corn planter, bred man takes to farming he brings Where the land is marked both ways, much more intelligent effort to his as recommended in Mr. Moore's ar- work than the country bred man. His ticle, corn can be planted very quickly brain seems to be better developed and by dropping the seeds where the guides his work more intelligently, and markings cross. The time for planting with perseverance he soon acquires the The time usually practice which makes him a skilled followed is from the 15th to the 24th workman. His observation is usually of May This will largely depend keener, and he more quickly notes upon the nature of the soil and the phenomena, and seeks the cause which Unless the ground is well produces various effects. It is noticeprepared and warm it is not good to able also that a mechanic, or a man plant too early. After planting, one with a naturally mechanical hent, usu-of our correspondents recommends ally displays much intelligence in harrowing with a light harrow when farming. It always seems a hardship the corn is from three to six inches that boys are forced to leave their Whether it would be safe to do father's farm, and seek a living in the this in all cases it is hard to say. At cities. May not the cause of this be any rate the corn cannot be cultivated partly from the fact that through want too much from the time it appears of knowledge of the actual require-above the ground till it is so high that ments of the land and of the plants, a horse cannot walk through it. The the farm is showing evidence of run-more cultivation it gets the better, ming down. The farmer says the crops The plan of harrowing between the are not what they used to be, while the rows, recommended by Mr. Moore, needs seem greater. The boy's edushould be a good one. His especially cation in the country school has not

strongly impressed, and from our own THE RELATION OF AGRICULTURE The farmer, not knowing himself, is experience in corners wing a thorough TO OUR SCHOOL SYSTEM. unable to enlighten him, and the son dreads to take up as a life task a matter which seems shrouded in mys-

The true plan of education then to the known facts of agricultural

is quite general, it is the practice to plow sod for corn, and if it is a clover sod so much the better. The practice is to plow this sod pretty deeply all strained. As he truly says, the derstand clearly the nature and conditionable mands are well grow to be still the practice is to plow this sod pretty deeply all strained. As he truly says, the derstand clearly the nature and conditionable mands and soils; how the schools. It plants feed: what they require for a supplement and ripening; how science. Instead of allowing them to stitution of plants and soils; how plants feed; what they require for During the winter or spring apply a has occurred to me that if the teachers proper development and ripening; how liberal coat of manure, and then plow of rural schools were themselves thore the food is to be procured and preshallow, after which work the land oughly versed in the science of agricul- pared; how to turn to account the thoroughly before planting. Some ture and the latest researches, and natural forces by which they are suradopt the very reverse of this, and besides had a practical agricultural rounded; how to prevent disease of plow shallow in the fall and deeper in training, it would greatly assist in for the crops, and how to treat it when it the spring. In such cases the manue warding the plan of education. An appears. Teach them the difference is applied in the fall before the shallow afternon talk on agriculture (or you between the animal which carries its food might call it a lecture), the subjects about with it while it digests and abclover sod is very strongly recom being chosen to meet the stage of sorbs it, and the plant fixed in the soil mended, and in nearly every case has advancement of the pupils, would be which pushes its way through its food given good results. Some recommend of great value. These talks might in the soil digesting and absorbing it. Let them understand animals and the land is heavy clay, and applying planting, growing, and harvesting, their requirements and the science of the manure in the fall if it is coarse, The peculiarities of the soil of the dis-feeding, so that from actual knowfeeding, so that from actual knowtrict might be sometimes dwelt on. ledge they may develop judgment in Feeding, the care of manures, dairy disposing of the products of the landing, forestry etc., would all come in on the farm itself. All are not "born place, and a practical kindergarten feeders"; early acquired knowledge plan of referring to the farms on which and training may develop a latent facsidered by some to be a good way of the pupils lived would furnish object ulty. Open their eyes while yet young cleaning a dirty field. Several cor- lessons for these talks. and its products, and when the travelwith very good results. If the corn is teaching practical agriculture in the ling dairy comes along they will quickly and surely understand its practical teachings. In fact prepare the youthand matures the man himself will complete his education by observation and practice.

But the greatest stumbling block to be encountered is the farmer himself. Usually short-sighted and wedded to false economies and antiquated notions, he resents what he considers innovations. Not realizing the necessity for this higher education and more accustomed to use his brawn than his brain, he doubts (often in a very positive way) the wisdom of introducing what he is pleased to term "newfangled notions." His way of going has been incessant toil from daybreak till the stars twinkle in the sky, and he starts in early to "bring the boy up in the way he should go." Duped as he frequently is by all sorts of traders, he naturally looks with suspicion on any attempt to interfere with his settled notions of farming; consequently in preparing agricultural education for the farmers' children, we must reckon with the parents as well as with their children, with the teachers as well as the scholars, with settled customs and the conditions of rural society of to day as well as of the tuture. The task is no light one, and it is sincerely to be hoped that Prof. James will not turn back from the plow to which he has put his hand, for no greater benefit can be bestowed upon agriculture than that of the education of the agriculturist who stands greatly in need of

Young hens are unquestionably the best for egg production.

taught him how to remed? the evil. are the cause of most poultry diseases. with them.

## PREMIUMS EASILY OBTAINED.

The following letter shows how easily premiums may be obtained by those who determine upon making the necessary effort to secure them.

Adelaide, April 10, 1898.

Dhar Sir, — Having seen in last week's Farmin' the list of valuable premiums offered I determined to make an effort to secure one. The result was that I succeeded in a very short time. Enclosed please find \$1.18 to pay for one year's subscription for Mr. L. T. Miller, Adelaide, Oat., and one bushel of Prussian blue peas. The 18c, is to pay for the bag. Hoping this slight effort to increase the circulation of your indispensable journal on agriculture may meet with your approval, I remain, yours sincerely,

At Fred Curdy.

It is needless to say that Mr. Cuddy's effort is not only very highly at preciated, but we are very much obliged to him for the opportunity it gives us of showing how easily the circulation of FARMING could be doubled if each of our friends would follow his example. It shows also how promable the effort is. What Mr. Cuddy got would have cost him 75c. if obtained in any other way, whereas the actual cost to him was only 3c. for post-

## Books.

TESTING MILK AND 118 PRODUCTS. By Professors E. H. Farrington and F. W. Woll. Svo., 230 pages. Price \$1.

This book should be in the hands of every the professor of it may be

dairyman in Canada. Copies of it may be obtained at this office, or will be sent free to anyone for two new yearly subscribers at \$1

THE TRACTION ENGINE: Its Use and Abuse. By James H. Maggard. Revised and enlarged by an expert engineer. Philadelphia, Pa. Price \$1.

As announced by the author this is not a scientific work on engineering, which would be only valuable to engineers of large station ary engines, but is intended for engineers of farm and traction engines. "Rough-andary engines, but is intended for engineers of farm and traction engines. "Rough and tumble engineers," who "have everything in their favor to-day and to morrow are in mudholes; who with the same engine do eight horse work one day and sixtee horse work next day; who use well water .o-day, creek water to-morrow, and water from some stagnant pool next day." To these who operate farm and traction engines it will furnish a great deal of valuable information in plain everyday language, free from all technicalities so that "he who runs may read."

FIRE AND FROST: Stories, Dialogues, Sattres, Essays, Poems, etc. By Ethelbert F. II. Cross.

This little book appeals so strongly to the national sentiment and sympathy we cannot refrain from giving it a good send off although it does not treat of any subject connected with agricultural journalism. It is, in fact, with agricultural journalism. It is, in fact, a collection of short stories, essays and poems, written by a clever young Canadian who is destined at no distant date to make his mark in a much wider field, if first performances can be taken as any indication of future accomplishmen. The author, though still a very young man, is by no means unknown to hiterature. He has been a tolerably prolific writer and a constant contributor for some years to the leading Canadian and American literary journals and magazines and his productions have claimed a large number of admirers on both sides of the line. "Fire and I rost" is the first attempt to collect his works in concrete form and we have no doubt it will be extensively read as it well deserves to be. The stories bear the impress of that indefin-The stories bear the impress of that indefinable charm which local coloring and familiar scenes and events lend to works of fiction or of history. We should certainly like those of of history. We should certainly like those of our friends who appreciate a good story, an instructive essay or an interesting poem to procure a copy of this very excellent product of typical Canadian genus.

It may be obtained from all booksellers.

1'rice \$1, handmely bound in cloth.

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